

# Aggregate Facility Study SPP-2006-AG3-AFS-3 For Transmission Service Requested by Aggregate Transmission Customers

SPP Engineering, SPP Tariff Studies

SPP AGGREGATE FACILITY STUDY (SPP-2006-AG3-AFS-3)

April 11, 2007

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### **<u>1. Executive Summary</u>**

Pursuant to Attachment Z of the Southwest Power Pool Open Access Transmission Tariff (OATT), 4729 MW of long-term transmission service requests have been restudied in this Aggregate Facility Study (AFS). The first phase of the AFS consisted of a revision of the impact study to reflect the withdrawal of requests for which an Aggregate Facility Study Agreement was not executed. The principal objective of the AFS is to identify system problems and potential modifications necessary to facilitate these transfers while maintaining or improving system reliability as well as summarizing the operating limits and determination of the financial characteristics associated with facility upgrades. Facility upgrade costs are allocated on a prorated basis to all requests positively impacting any individual overloaded facility. Further, Attachment Z provides for facility upgrade cost recovery by stating that "[a]ny charges paid by a customer in excess of the transmission access charges in compensation for the revenue requirements for allocated facility upgrade(s) shall be recovered by such customer from future transmission service revenues until the customer has been fully compensated."

The total assigned facility upgrade Engineering and Construction (E &C) cost determined by the AFS is \$226 Million. Additionally an indeterminate amount of assigned E & C cost for 3<sup>rd</sup> party facility upgrades are assignable to the customer. The total upgrade levelized revenue requirement for all transmission requests is \$739 Million. This is based on full allocation of levelized revenue requirements for upgrades to customers without consideration of base plan funding. AFS data table 3 reflects the allocation of upgrade costs to each request without potential base plan funding based on either the requested reservation period or the deferred reservation period if applicable. Total upgrade levelized revenue requirements for all transmission requests after consideration of potential base plan funding is \$35 Million.

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Third-party facilities must be upgraded when it is determined they are constrained in order to accommodate the requested Transmission Service. These include both first-tier neighboring facilities outside SPP and Transmission Owner facilities within SPP that are not under the SPP OATT. In this AFS, third-party facilities were identified. Total engineering and construction cost estimates for required third-party facility upgrades are indeterminate.

The Transmission Provider will tender a Letter of Intent on April 11th, 2007. This will open a 15-day window for Customer response. To remain in the Aggregate Transmission Service Study (ATSS), the Transmission Provider must receive from the Transmission Customer (Customer) by April 26th, 2007, an executed Letter of Intent. The Letter of Intent will list options the Customer must choose to clarify their commitment to remain in the ATSS. The only action required on OASIS is to WITHDRAW the request or leave the request in STUDY mode.

At the conclusion of the ATSS, Service Agreements for each request for service will be tendered identifying the terms and conditions of the confirmed service.

If customers withdraw from the ATSS after posting of this AFS, the AFS will be reperformed to determine final cost allocation and Available Transmission Capability (ATC) in consideration of the remaining ATSS participants. All allocated revenue requirements for facility upgrades are assigned to the customer in the AFS data tables. Potential base plan funding allowable is contingent upon validation of designated resources meeting Attachment J, Section III B criteria.

### 2. Introduction

On January 21, 2005, the Federal Energy Regulatory Commission accepted Southwest Power Pool's proposed aggregate transmission study procedures in Docket ER05-109 to become effective February 1, 2005. The proposed cost allocation and cost recovery provisions were accepted for filing and suspended to become effective the earlier of five months from the requested effective date (July 1, 2005) or a further order of the Commission in the proceeding subject to refund. Since that time, the cost allocation and cost recovery provisions have been accepted with modification. The following link can be used to access the SPP Regulatory/FERC webpage:

(http://www.spp.org/Objects/FERC\_filings.cfm). The hyperlinks under the heading ER05-109 (Attach Z Filing) open Southwest Power Pool's October 29, 2004 filing containing Attachment Z to the SPP OATT and the Commission's January 21, 2005 Order. In compliance with this Order, the third open season of 2006 commenced on June 1, 2006. All requests for long-term transmission service received prior to October 1, 2006 with a signed study agreement were then included in this third Aggregate Transmission Service Study (ATSS) of 2006.

Approximately 4729 MW of long-term transmission service has been restudied in this Aggregate Facility Study (AFS) with over \$226 Million in transmission upgrades being proposed. The results of the AFS are detailed in Tables 1 through 7. A highly tangible benefit of studying transmission requests aggregately under the SPP OATT Attachment Z is the sharing of costs among customers using the same facility. The detailed results show individual upgrade costs by study as well as potential base plan allowances as determined by Attachments J and Z. The following link can be used to access the SPP OATT: (http://www.spp.org/Publications/SPP\_Tariff.pdf). In order to understand the extent to which base plan upgrades may be applied to both point-to-point and network transmission services, it is necessary to highlight the definition of Designated Resource.

SPP AGGREGATE FACILITY STUDY (SPP-2006-AG3-AFS-3) April 11, 2007 Page 5 of 113 Per Section 1.9a of the SPP OATT, a Designated Resource is "[a]ny designated generation resource owned, purchased or leased by a Transmission Customer to serve load in the SPP Region. Designated Resources do not include any resource, or any portion thereof, that is committed for sale to third parties or otherwise cannot be called upon to meet the Transmission Customer's load on a non-interruptible basis." Therefore, not only network service, but also point-to-point service has potential for base plan funding if the conditions for classifying upgrades associated with designated resources as base plan upgrades as defined in Section III.B of Attachment J are met.

Pursuant to Attachment J, Section III B of the SPP OATT, the Transmission Customer must provide SPP information necessary to verify that the new or changed Designated Resource meets the following conditions:

- Transmission Customer's commitment to the requested new or changed Designated Resource must have a duration of at least five years.
- 2. During the first year the Designated Resource is planned to be used by the Transmission Customer, the accredited capacity of the Transmission Customer's existing Designated Resources plus the lesser of (a) the planned maximum net dependable capacity applicable to the Transmission Customer or (b) the requested capacity; shall not exceed 125% of the Transmission Customer's projected system peak responsibility determined pursuant to SPP Criteria 2.

According to Attachment Z Section VI.A, Point-to-Point customers pay the higher of the monthly transmission access charge (base rate) or the monthly revenue requirement associated with the assigned facility upgrades including any prepayments for redispatch required during construction.

Network Integration Service customers pay the total monthly transmission access charges and the monthly revenue requirement associated with the facility upgrades including any prepayments for redispatch during construction.

Transmission Customers paying for a directly assigned network upgrade shall receive credits for new transmission service using the facility as specified in Attachment Z Section VII.

Facilities identified as limiting the requested Transmission Service have been reviewed to determine the required in-service date of each Network Upgrade. The year that each Network Upgrade is required to accommodate a request is determined by interpolating between the applicable model years given the respective loading data. Both previously assigned facilities and the facilities assigned to this request for Transmission Service were evaluated.

In some instances due to lead times for engineering and construction, Network Upgrades may not be available when required to accommodate a request for Transmission Service. When this occurs, the ATC with available Network Upgrades will be less than the capacity requested during either a portion of or all of the requested reservation period. As a result, the lowest seasonal allocated ATC within the requested reservation period will be offered to the Transmission Customer on an applicable annual basis as listed in Table 1. The ATC may be limited by transmission owner planned projects, expansion plan projects, or customer assigned upgrades.

Some constraints identified in the AFS were not assigned to the Customer as the Transmission Provider determined that upgrades are not required due to various reasons or the Transmission Owner has construction plans pending for these upgrades. These facilities are listed by reservation in Table 3. This table also includes constrained facilities in the current planning horizon that limit the rollover rights of the Transmission Customer. Table 6 lists possible redispatch pairs to allow start of service prior to completion of assigned network upgrades. Table 7 (if applicable) lists deferment of expansion plan projects with different upgrades with the new required in service date as a result of this AFS.

## A. Financial Analysis

The AFS utilizes the allocated customer E & C cost in a present worth analysis to determine the monthly levelized revenue requirement of each facility upgrade over the term of the reservation. In some cases, network upgrades cannot be completed within the requested reservation period, thus deferred reservation periods will be utilized in the present worth analysis. If the Customer chose Option 3, Redispatch, in the Letter of Intent sent coincident with the initial AFS, the present worth analysis of revenue requirements will be based on the deferred term with redispatch in the subsequent AFS. The upgrade levelized revenue requirement includes interest, depreciation, and carrying costs.

Each request for Transmission Service is evaluated independently as the cost associated with each Network Upgrade is assigned to a request. When facilities are upgraded throughout the reservation period, the Transmission Customer shall 1) pay the total E & C costs and other annual operating costs associated with the new facilities, and 2) receive credits associated with the depreciated book value of removed usable facilities, salvage value of removed non-usable facilities, and the carrying charges, excluding depreciation, associated with all removed usable facilities based on their respective book values.

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In the event that the engineering and construction of a previously assigned Network Upgrade may be expedited, with no additional upgrades, to accommodate a new request for Transmission Service, then the levelized present worth of only the incremental expenses though the reservation period of the new request, excluding depreciation, shall be assigned to the new request. These incremental expenses, excluding depreciation, include 1) the levelized difference in present worth of the engineering and construction expenses given the change in date to complete construction to account for additional interest expense and reduced engineering and construction expense due to inflation, 2) the

levelized present worth of all expediting fees, and 3) the levelized present worth of the incremental annual carrying charges, excluding depreciation and interest, during the new reservation period taking into account both a) the reservation in which the project was originally assigned, and b) a reservation, if any, in which the project was previously expedited.

Achievable Base Plan Avoided Revenue Requirements in the case of a Base Plan upgrade being displaced or deferred by an earlier in service date for a Requested Upgrade shall be determined per Attachment J, Section VII.B methodology. A deferred Base Plan upgrade being defined as a different requested network upgrade needed at an earlier date that negates the need for the initial base plan upgrade within the planning horizon. A displaced Base Plan upgrade being defined as the same network upgrade being displaced by a requested upgrade needed at an earlier date. Assumption of a 40 year service life is utilized for Base Plan funded projects unless provided otherwise by the Transmission Owner. A present worth analysis of revenue requirements on a common year basis between the Base Plan and Requested Upgrades was performed to determine avoided Base Plan revenue requirements due to the displacement or deferral of the Base Plan upgrade by the Requested Upgrade. The difference in present worth between the Base

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Plan and Requested Upgrades is assigned to the transmission requests impacting this upgrade based on the displacement or deferral.

### **B. Third-Party Facilities**

For third-party facilities listed in Table 3 and Table 5, the Transmission Customer is responsible for funding the necessary upgrades of these facilities per Section 21.1 of the Transmission Provider's OATT. In this AFS, third-party facilities were identified. Total engineering and construction cost estimates for required third-party facility upgrades are indeterminate. The Transmission Provider will undertake reasonable efforts to assist the Transmission Customer in making arrangements for necessary engineering, permitting, and construction of the third-party facilities. Third-party facility upgrade engineering and construction cost estimates are not utilized to determine the present worth value of levelized revenue requirements for SPP system network upgrades.

All modeled facilities within the Transmission Provider system were monitored during the development of this Study as well as certain facilities in first-tier neighboring systems. Third-party facilities must be upgraded when it is determined that they are overloaded while accommodating the requested Transmission Service. These facilities also include those owned by members of the Transmission Provider who have not placed their facilities under the Transmission Provider's OATT. Upgrades on the Southwest Power Administration network requires prepayment of the upgrade cost prior to construction of the upgrade.

Third-party facilities are evaluated for only those requests whose load sinks within the SPP footprint. The Customer must arrange for study of 3<sup>rd</sup> party facilities for load that sinks outside the SPP footprint with the applicable Transmission Providers.

## 3. Study Methodology

## A. Description

The system impact analysis was conducted to determine the steady-state impact of the requested service on the SPP and first tier Non - SPP control area systems. The steady-state analysis was done to ensure current SPP Criteria and NERC Reliability Standards requirements are fulfilled. The Southwest Power Pool conforms to the NERC Reliability Standards, which provide the strictest requirements, related to voltage violations and thermal overloads during normal conditions and during a contingency. It requires that all facilities be within normal operating ratings for normal system conditions and within emergency ratings after a contingency. Normal operating ratings and emergency operating ratings monitored are Rate A and B in the SPP MDWG models, respectively. The upper bound and lower bound of the normal voltage range monitored is 105% and 95%. The upper bound and lower bound of the emergency voltage range monitored is 110% and 90%. The SPS Tuco 230 kV bus voltage is monitored at 92.5% due to predetermined system stability limitations.

The contingency set includes all SPP control area branches and ties 69kV and above, first tier Non - SPP control area branches and ties 115 kV and above, any defined contingencies for these control areas, and generation unit outages for the control areas with SPP reserve share program redispatch. The monitor elements include all SPP control area branches, ties, and buses 69 kV and above, and all first tier Non – SPP control area branches and ties 69 kV and above. Voltage monitoring was performed for SPP control area buses 69 kV and above.

A 3 % transfer distribution factor (TDF) cutoff was applied to all SPP control area facilities. For first tier Non – SPP control area facilities, a 3 % TDF cutoff was applied to AECI, AMRN, and ENTR and a 2 % TDF cutoff was applied to MEC, NPPD, and

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OPPD. For voltage monitoring, a 0.02 per unit change in voltage must occur due to the transfer or modeling upgrades to be considered a valid limit to the transfer.

## B. Model Development

SPP used nine seasonal models to study the aggregate transfers of 4729 MW over a variety of requested service periods. The SPP MDWG 2006 Series Cases Update 4 2007 Summer Peak (07SP), 2007 Summer Shoulder (07SH), 2007 Fall Peak (07FA), 2007/08 Winter Peak (07WP), 2008 Summer Peak (08SP), 2008/09 Winter Peak (08WP), 2011 Summer Peak (11SP), 2011/12 Winter Peak (11WP), and 2016 Summer Peak (16SP) were used to study the impact of the requested service on the transmission system. The Spring Peak models apply to April and May, the Summer Peak models apply to June through September, the Fall Peak models apply to October and November, and the Winter Peak models apply to December through March.

The chosen base case models were modified to reflect the most current modeling information. Five groups of requests were developed from the aggregate of 4729 MW in order to minimize counterflows among requested service. Each request was included in at least two of the four groups depending on the requested path. All requests were included in group five. From the nine seasonal models, five system scenarios were developed. Scenario 1 includes SWPP OASIS transmission requests not already included in the SPP 2006 Series Cases flowing in a West to East direction with ERCOT exporting and SPS exporting to outside zones and exporting to the Lamar HVDC Tie. Scenario 2 includes transmission requests not already included in the SPP 2006 Series Cases flowing in a West of the SPP 2006 Series Cases flowing in an East to West direction with ERCOT net importing and SPS importing from an outside zone and exporting to the Lamar HVDC Tie. Scenario 3 includes transmission requests not already included in the SPP 2006 Series Cases flowing to the Lamar HVDC Tie. Scenario 3 includes transmission requests not already included in the SPS importing from an outside zone and exporting to the Lamar HVDC Tie. Scenario 3 includes transmission requests not already included in the SPS importing from an outside zone and exporting to the Lamar HVDC Tie. Scenario 3 includes transmission requests not already included in the SPS importing from an outside zone and exporting to the SPP 2006 Series Cases flowing in a West to East

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direction with ERCOT net importing and SPS exporting from an outside zone and exporting from the Lamar HVDC Tie. Scenario 4 includes transmission requests not already included in the SPP 2006 Series Cases flowing in a North to South direction with ERCOT importing and SPS importing from outside zones and importing from the Lamar HVDC tie. Scenario 5 include all transmission not already included in the SPP 2006 Series Cases with ERCOT importing and SPS net exporting to outside zones and exporting to the Lamar HVDC tie. The system scenarios were developed to minimize counter flows from previously confirmed, higher priority requests not included in the MDWG Base Case.

### C. Transmission Request Modeling

Network Integration Transmission Service requests are modeled as Generation to Load transfers. The Generation to Load modeling is accomplished by developing a pretransfer case by redispatching the existing designated network resource(s) down by the new designated network resource request amount and scaling down the applicable network load by the same amount proportionally. The post-transfer case for comparison is developed by scaling the network load back to the forecasted amount and dispatching the new designated network resource being requested. Network Integration Transmission Service requests are modeled as Generation to Load transfers because the requested Network Integration Transmission Service is a request to serve network load with the new designated network resource and the impacts on transmission system are determined accordingly. If the Network Integration Transmission Service (s) is being replaced or undesignated by the new designated network resource then MW impact credits will be given to the request as is done for a redirect of existing transmission service. Point-To-Point Transmission Service requests are modeled as Generation to Generation transfers.

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The Generation to Generation transfers are accomplished by developing a post-transfer case for comparison by dispatching the request source and redispatching the request sink.

## **D. Transfer Analysis**

Using the selected cases both with and without the requested transfers modeled, the PSS/E Activity ACCC was run on the cases and compared to determine the facility overloads caused or impacted by the transfer. Transfer distribution factor cutoffs (SPP and 1<sup>st</sup>-Tier) and voltage threshold (0.02 change below 0.90 pu) were applied to determine the impacted facilities. The PSS/E options chosen to conduct the analysis can be found in Appendix A.

### E. Curtailment and Redispatch Evaluation

During any period when SPP determines that a transmission constraint exists on the Transmission System, and such constraint may impair the reliability of the Transmission System, SPP will take whatever actions that are reasonably necessary to maintain the reliability of the Transmission System. To the extent SPP determines that the reliability of the Transmission System can be maintained by redispatching resources, SPP will evaluate interim curtailment of existing confirmed service or interim redispatch of units to provide service prior to completion of any assigned network upgrades. Any redispatch may not unduly discriminate between the Transmission Owners' use of the Transmission System on behalf of their Native Load Customers and any Transmission Customer's use of the Transmission System to serve its designated load. Redispatch was evaluated to provide only interim service during the time frame prior to completion of any assigned network upgrades. Curtailment of existing confirmed service is evaluated to provide

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only interim service. Curtailment of existing confirmed service is only evaluated at the request of the transmission customer.

SPP determined potential relief pairs to relieve the incremental MW impact on limiting facilities as identified in Table 6. Using the selected cases where the limiting facilities were identified, potential incremental and decremental units were identified by determining the generation amount available for increasing and decreasing from the units generation amount, maximum generation amount, and minimum generation amount. If the incremental or decremental amount was greater than 1 MW, the unit was considered as a potential incremental or decremental unit. Generation shift factors were calculated for the potential incremental and decremental units using Managing and Utilizing System Transmission (MUST). From the generation shift factors for the incremental and decremental units, top 100 relief pairs within a NERC certified control area with a greater than 3% TDF on limiting constraint were determined from the incremental units with the lowest generation shift factors and decremental units with highest generation shift factors. If the aggregate redispatch amount for the potential relief pair was determined to be three times greater than the lower of the increment or decrement then the pair was determined not to be feasible and is not included in the top 100 relief pairs. If transmission customer would like to see additional relief pairs beyond the top 100 relief pairs determined, the transmission customer can request SPP to provide the additional pairs. The potential relief pairs were not evaluated to determine impacts on limiting facilities in the SPP and 1st-Tier systems. The redispatch requirements would be called upon prior to implementing NERC TLR Level 5a.

## 4. Study Results

### A. Study Analysis Results

Tables 1 through 6 contain the steady-state analysis results of the AFS. Table 1 identifies the participating long-term transmission service requests included in the AFS. This table lists deferred start and stop dates both with and without redispatch (based on customer selection of redispatch if available), the minimum annual allocated ATC without upgrades and season of first impact. Table 2 identifies total E & C cost allocated to each Transmission Customer, letter of credit requirements, third party E & C cost assignments, potential base plan E & C funding (lower of allocated E & C or Attachment J Section III B criteria), total revenue requirements for assigned upgrades without consideration of potential base plan funding, point-to-point base rate charge, total revenue requirements for assigned upgrades with consideration of potential base plan funding, and final total cost allocation to the Transmission Customer. Table 3 provides additional details for each request including all assigned facility upgrades required, allocated E & C costs, allocated revenue requirements for upgrades, upgrades not assigned to customer but required for service to be confirmed, facilities limiting rollover rights, credits to be paid for previously assigned AFS facility upgrades, and any third party upgrades required. This includes the season in the planning horizon where rollover rights are limited. Table 4 lists all upgrade requirements with associated solutions needed to provide transmission service for the AFS, Minimum ATC per upgrade with season of impact, Earliest Date Upgrade is required (COD), Estimated Date of Upgrade Completion (EOC), and Estimated E & C cost. Table 5 lists identified Third-Party constrained facilities. Table 6 identifies potential redispatch pairs available to relieve the aggregate impacts on identified constraints to prevent deferral of start of service. Table 7 identifies deferred expansion plan projects that were replaced with requested upgrades at earlier dates.

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The potential base plan funding allowable is contingent upon meeting each of the conditions for classifying upgrades associated with designated resources as base plan upgrades as defined in Section III.B of Attachment J. If the additional capacity of the new or changed designated resource exceeds the 125% resource to load forecast for the year of start of service, the requested resource is not eligible for base plan funding of required network upgrades and the full cost of the upgrades is assignable to the customer. If the 5 year term and 125% resource to load criteria are met, the lesser of the planned maximum net dependable capacity (NDC) or the requested capacity is multiplied by \$180,000 to determine the potential base plan funding allowable. When calculating Base Plan Funding amounts that include a wind farm, the amount used is 10% of the requested amount of service, or the NDC. The Maximum Potential Base Plan Funding Allowable may be less than the potential base plan funding allowable due to the E & C Cost allocated to the customer being lower than the potential amount allowable to the customer. The customer is responsible for any assigned upgrade costs in excess of Potential Base Plan Engineering and Construction Funding Allowable.

Regarding application of base plan funding for PTP requests, if PTP base rate exceeds upgrade revenue requirements without taking into effect the reduction of revenue requirements by potential base plan funding, then the base rate revenue pays back the Transmission Owner for upgrades and no base plan funding is applicable as the access charge must be paid as it is the higher of "OR" pricing.

However, if initially the upgrade revenue requirements exceed the PTP base rate, then potential base plan funding would be applicable. The test of the higher of "OR" pricing would then be made against the remaining assignable revenue requirements versus PTP base rate. Examples are as follows:

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## Example A:

E & C allocated for upgrades is 74 million with revenue requirements of 140 million and PTP base rate of 101 million. Potential base plan funding is 47 million with the difference of 27 million E & C assignable to the customer. If the revenue requirements for the assignable portion is 54 million and the PTP base rate is 101 million, the customer will pay the higher "OR" pricing of 101 million base rate of which 54 million revenue requirements will be paid back to the Transmission Owners for the upgrades and the remaining revenue requirements of (140-54) or 86 million will be paid by base plan funding.

### Example B:

E & C allocated for upgrades is 74 million with revenue requirements of 140 million and PTP base rate of 101 million. Potential base plan funding is 10 million with the difference of 64 million E & C assignable to the customer. If the revenue requirements for this assignable portion is 128 million and the PTP base rate is 101 million the customer will pay the higher "OR" pricing of 128 million revenue requirements to be paid back to the Transmission Owners and the remaining revenue requirements of (140-128) or 12 million will be paid by base plan funding.

## Example C:

E & C allocated for upgrades is 25 million with revenue requirements of 50 million and PTP base rate of 101 million. Potential base plan funding is 10 million. Base plan funding is not applicable as the higher "OR" pricing of PTP base rate of 101 million must be paid and the 50 million revenue requirements will be paid from this.

The 125% resource to load determination is performed on a per request basis and is not based on a total of designated resource requests per Customer. A footnote will provide

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the maximum resource designation allowable for base plan funding consideration per Customer basis per year.

Base plan funding verification requires that each Transmission Customer with potential for base plan funding provide SPP power supply contracts or agreements verifying that the firm capacity of the requested designated resource is committed for a minimum five year duration.

## **B. Study Definitions**

The Commercial Operation Date (COD) is the earliest date the upgrade is required to alleviate a constraint considering all requests. End of Construction (EOC) is the estimated date the upgrade will be completed and in service. The Total Engineering and Construction Cost (E & C) is the upgrade solution cost as determined by the transmission owner. The Transmission Customer Allocation Cost is the estimated engineering and construction cost based upon the allocation of costs to all Transmission Customers in the AFS who positively impact facilities by at least 3% subsequently overloaded by the AFS. Minimum ATC is the portion of the requested capacity that can be accommodated with out upgrading facilities. Annual ATC allocated to the Transmission Customer is determined by the least amount of allocated seasonal ATC within each year of a reservation period.

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## 5. Conclusion

The results of the AFS show that limiting constraints exist in many areas of the regional transmission system. Due to these constraints, transmission service cannot be granted unless noted in Table 3.

The Transmission Provider will tender a Letter of Intent on April 11th, 2007. This will open a 15-day window for Customer response. To remain in the Aggregate Transmission Service Study (ATSS), the Transmission Provider must receive from the Transmission Customer (Customer) by April 26th, 2007, an executed Letter of Intent. The Letter of Intent will list options the Customer must choose to clarify their commitment to remain in the ATSS. The only action required on OASIS is to WITHDRAW the request or leave the request in STUDY mode.

The Transmission Provider must receive an unconditional and irrevocable letter of credit in the amount of the total allocated Engineering and Construction costs assigned to the Customer. This letter of credit is required regardless of base plan funding consideration. This amount is for all assignable Network Upgrades less pre-payment requirements. The amount of the letter of credit will be adjusted down on an annual basis to reflect amortization of these costs. The Transmission Provider will issue letters of authorization to construct facility upgrades to the constructing Transmission Owner. This date is determined by the engineering and construction lead time provided for each facility upgrade.

## Appendix A

### PSS/E CHOICES IN RUNNING LOAD FLOW PROGRAM AND ACCC

### BASE CASES:

Solutions - Fixed slope decoupled Newton-Raphson solution (FDNS)

- 1. Tap adjustment Stepping
- 2. Area interchange control Tie lines and loads
- 3. Var limits Apply immediately
- 4. Solution options  $\underline{X}$  Phase shift adjustment
  - \_ Flat start
  - \_Lock DC taps
  - \_ Lock switched shunts

## ACCC CASES:

Solutions – AC contingency checking (ACCC)

- 1. MW mismatch tolerance -0.5
- 2. Contingency case rating Rate B
- 3. Percent of rating -100
- 4. Output code Summary
- 5. Min flow change in overload report 3mw
- 6. Excld cases w/ no overloads form report YES
- 7. Exclude interfaces from report NO
- 8. Perform voltage limit check YES
- 9. Elements in available capacity table 60000
- 10. Cutoff threshold for available capacity table 99999.0
- 11. Min. contng. case Vltg chng for report -0.02
- 12. Sorted output None

Newton Solution:

- 1. Tap adjustment Stepping
- 2. Area interchange control Tie lines and loads
- 3. Var limits Apply automatically
- 4. Solution options  $\underline{X}$  Phase shift adjustment
  - \_ Flat start
  - \_Lock DC taps
  - \_ Lock switched shunts

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					Requested	Requested	Requested	Deferred Start Date without interim	Deferred Stop Date without interim	Start Date with interim	Stop Date with interim	Mimimum Allocated ATC (MW) within	Season of Minimum Allocated ATC within
Customer	Study Number	Reservation		POD	Amount	Start Date	Stop Date	redispatch	redispatch	redispatch	redispatch	reservation period	reservation period
AECC	AG3-2006-001	1161209	CSWS	CSWS	70	6/1/2011	6/1/2031	- / . /				0	11SP
AECC AECC	AG3-2006-002	1161136	WR WR	CSWS	50 50	12/1/2007 12/1/2007	12/1/2027 12/1/2027	5/1/2008 10/1/2008	5/1/2028		-	0	07WP 07WP
	AG3-2006-003	1161131		EES					10/1/2028	- / . /		-	
AEPM	AG3-2006-039	1158760		CSWS	160	7/1/2007	7/1/2012	10/1/2008	10/1/2013	7/1/2007	7/1/2012	2 0	07SP
AEPM	AG3-2006-040	1158761		CSWS	160	11/1/2007	11/1/2012	10/1/2008	10/1/2013	11/1/2007	11/1/2012	2 0	08SP
AEPM	AG3-2006-043	1162211		CSWS	457	6/1/2011	6/1/2031				-	0	11SP
AEPM	AG3-2006-044	1162214		CSWS	455	6/1/2011	6/1/2031					0	11SP
AEPM	AG3-2006-091	1162766	_	CSWS	100	6/1/2007	6/1/2008	10/1/2008	10/1/2009	6/1/2007	6/1/2008	<sup>2</sup> 50	07SP
AEPM	AG3-2006-092	1162763	CSWS	CSWS	100	6/1/2007	6/1/2008	10/1/2008	10/1/2009	6/1/2007	6/1/2008	<sup>2</sup> 50	07SP
AEPM	AG3-2006-094	1163062		CSWS	550	6/1/2010	6/1/2015					0	11SP
GRDX	AG3-2006-032	1161666	_	GRDA	150	2/1/2007	2/1/2008	10/1/2008	10/1/2009	6/1/2007	6/1/2008	<sup>2</sup> 75	07SP
GRDX	AG3-2006-033	1161667	OKGE	GRDA	150	2/1/2007	2/1/2008	10/1/2008	10/1/2009	6/1/2007	6/1/2008	<sup>2</sup> 75	07SP
KCPS	AG3-2006-101	1162686	AECI	KCPL	50	6/1/2007	6/1/2008	10/1/2008	10/1/2009	6/1/2007	6/1/2008	2 0	07SP
KCPS	AG3-2006-103	1162650	KCPL	CLEC	52	2/1/2007	2/1/2008	6/1/2008	6/1/2009	6/1/2007	6/1/2008	2 0	07SP
KCPS	AG3-2006-103	1162651	KCPL	CLEC	51	2/1/2007	2/1/2008	6/1/2008	6/1/2009	6/1/2007	6/1/2008	2 0	07SP
KCPS	AG3-2006-104	1162654	KCPL	SPA	16	2/1/2007	2/1/2008	6/1/2008	6/1/2009	6/1/2007	6/1/2008	2 0	07SP
KCPS	AG3-2006-106	1162649	_	KCPL	101	2/1/2007	2/1/2037	10/1/2008	10/1/2038	6/1/2007	6/1/2037	<sup>2</sup> 0	07SH
MIDW	AG3-2006-062	1162137	WR	WR	20	6/1/2008	6/1/2038	6/1/2010	6/1/2040	0/1/2007	0/1/2007	0	08SP
MIDW	AG3-2006-062	1162141		WR	5	6/1/2008	6/1/2038	6/1/2010	6/1/2040			0	08SP
MIDW	AG3-2006-062	1162142	WR	WR	40	6/1/2008	6/1/2038	6/1/2010	6/1/2040			0	08SP
MIDW	AG3-2006-062	1162143	WR	WR	10	6/1/2008	6/1/2038	6/1/2010	6/1/2040			0	08SP
MIDW	AG3-2006-086	1162102		WR	25	6/1/2007	6/1/2017	6/1/2010	6/1/2020			0	07SH
MIDW	AG3-2006-121	1167662	WR	WR	35	2/1/2007	2/1/2012	6/1/2010	6/1/2015			0	07SH
MIDW	AG3-2006-121	1167664	WR CSWS	WR CSWS	10	2/1/2007 6/1/2011	2/1/2012	6/1/2010	6/1/2015			0	07SH 16SP
NTEC	AG3-2006-035	1161974			52		6/1/2031	10/1/0007	10/1/00/10	0///0007	0/1/00/10	-	
OGE	AG3-2006-034	1161665		SPA	20	2/1/2007	2/1/2012	10/1/2007	10/1/2012	6/1/2007	6/1/2012	2 0	11SP
OGE OMPA	AG3-2006-049 AG3-2006-028	1162077 1159596	OKGE	CSWS	384 41	6/1/2011 6/1/2011	6/1/2031 6/1/2031					0	11SP 11SP
OMPA	AG3-2006-020	1162095	OKGE		73	6/1/2011	6/1/2031					0	11SP
SEPC	AG3-2006-113	1162670	WR	SECI	51	12/1/2007	12/1/2027	6/1/2010	6/1/2030			0	07WP
SPSM	AG3-2006-115	1162675	_	SPS	100	2/1/2007	2/1/2008	6/1/2011	6/1/2012	6/1/2007	6/1/2008	<sup>2</sup> 0	07FA
UCU	AG3-2006-052D	1162075	WR	MPS	51	1/1/2008	1/1/2028	6/1/2010	6/1/2030	0/1/2007	0,172000	0	07WP
UCU	AG3-2006-088D	1162678		MPS	25	1/1/2008	1/1/2028	6/1/2010	6/1/2030			0	07WP
UCU	AG3-2006-088D	1162681	WR	MPS	25	1/1/2008	1/1/2028	6/1/2010	6/1/2030			0	07WP
WRGS	AG3-2006-024D	1161506	WR	WR	380	5/1/2008	5/1/2014	6/1/2010	6/1/2016	5/1/2008	5/1/2014	2 0	08SP
WRGS	AG3-2006-025	1140120	WR	WR	360	5/1/2009	5/1/2015					39	11SP
WRGS	AG3-2006-036D	1161997	MPS	WR	300	6/1/2007	6/1/2014	6/1/2010	6/1/2017	6/1/2007	6/1/2014	2 0	07SH
Ų	ard Redispatch shov nd Stop Dates with i										,		

			Co Up	<sup>11</sup> Engineering and onstruction Cost of grades Allocated to stomer for Revenue	<sup>1</sup> Le	tter of Credit	Er	otential Base Plan ngineering and onstruction	Notes	<sup>4</sup> Additional Engineering and Construction Cost for 3rd Party	Re Ass res	<sup>3</sup> Total Revenue lequirements for ssigned Upgrades over term of servation without otential base plan	<sup>3 7</sup> Total Revenue Requirements for Assigned Upgrades over term of reservation WITH potential base plan	Point-to-Point Base Rate over	<sup>4</sup> Total Cost of Reservation Assignable to Customer contingent upon base plan
Customer	Study Number	Reservation	• • •	Requirements		ount Required		unding Allowable	ŧ	Upgrades		inding allocation	funding allocation	reservation period	funding
AECC	AG3-2006-001	1161209	\$	16,915,218	\$	16,915,218	_		0)	\$ -	\$	55.622.818	\$ 14,189,861	\$ -	\$ 14,189,861
AECC	AG3-2006-002	1161136	\$	1,933,119	•	1,933,119	·	,,		\$-	\$	5,787,667	\$ 3,040,665	\$-	\$ 3,040,665
AECC	AG3-2006-003	1161131	\$	1,180,795	\$	1,180,795				\$-	\$	, ,	\$ 3,884,854	\$ 10,800,000	\$ 10,800,000
AEPM	AG3-2006-039	1158760	\$	2,755,613	•	-	\$		10	\$-	\$	, ,	\$ -	\$ -	Sch 9 charges
AEPM	AG3-2006-040	1158761	\$	2,755,613		-	\$			\$ -	\$	4,853,416	\$-	\$-	Sch 9 charges
AEPM	AG3-2006-043	1162211	\$	38,626,114		37,421,664	\$	,,		\$-	\$	163,452,091	\$-	\$-	Sch 9 charges
AEPM	AG3-2006-044	1162214	\$	67,479,233	Ś	24,326,756	\$	, ,		\$-	\$	211,328,846	\$ -	\$-	Sch 9 charges
AEPM	AG3-2006-091	1162766	\$	48.402	\$	58.778	\$			\$-	\$	93.832	\$ 68.918	\$ 1.260.000	\$ 1.260.000
AEPM	AG3-2006-092	1162763	\$	39,319	\$	47,748	\$	-		\$-	\$	)	\$ 55,985	\$ 1,260,000	\$ 1,260,000
AEPM	AG3-2006-094	1163062	\$	34,167,922	\$	17,988,233	\$	34,167,922		\$-	\$	,	\$ -	\$-	Sch 9 charges
GRDX	AG3-2006-032	1161666	\$	1,280,695	\$	152,311	\$	, ,		\$-	\$	1,533,725	\$ 1,469,166	*	\$ 1,469,166
GRDX	AG3-2006-033	1161667	\$	1,228,756	\$	102,041	\$			\$-	\$	1,441,698	\$ 1,398,446		\$ 1,398,446
KCPS	AG3-2006-101	1162686	\$	-	\$	-	\$	-		\$-	\$	-	\$ -	\$-	Sch 9 charges
KCPS	AG3-2006-103	1162650	\$	-	\$	-	\$	-		\$ -	\$	-	\$-	\$ 655,200	\$ 655,200
KCPS	AG3-2006-103	1162651	\$	-	\$	-	\$	-		\$-	\$	-	\$-	\$ 642,600	\$ 642,600
KCPS	AG3-2006-104	1162654	\$	6,247	\$	7,586	\$	-		\$-	\$	12,110	\$ 8,895	\$ 172,800	\$ 172,800
KCPS	AG3-2006-106	1162649	\$	150,000	\$	150,000	\$	850,000	10	- \$	\$	1,852,095	\$ -	\$ -	Sch 9 charges
MIDW	AG3-2006-062	1162137	\$	40,000	\$	40,000	\$	-	5	· \$ -	\$	230,866	\$ 230,866	\$ -	\$ 230,866
MIDW	AG3-2006-062	1162141	\$	9,997	\$	9,997	\$	-	5	· \$ -	\$	57,699	\$ 57,699	\$ -	\$ 57,699
MIDW	AG3-2006-062	1162142	\$	80,000	\$	80,000	\$	-	5	· \$ -	\$	461,733	\$ 461,733	\$ -	\$ 461,733
MIDW	AG3-2006-062	1162143	\$	20,000	\$	20,000	\$	-	5	· \$ -	\$	115,433	\$ 115,433	\$ -	\$ 115,433
MIDW	AG3-2006-086	1162102	\$	5,752	\$	5,752	\$	-	5	· \$ -	\$	18,902	\$ 18,902	\$ -	\$ 18,902
MIDW	AG3-2006-121	1167662	\$	8,054	\$	8,054	\$	-	5	\$ -	\$	22,437	\$ 22,437	\$ -	\$ 22,437
MIDW	AG3-2006-121	1167664	\$	2,303	\$			-	5	\$ -	\$	6,416	\$ 6,416	\$-	\$ 6,416
NTEC	AG3-2006-035	1161974	\$	6,323,764	\$	6,323,764	\$	6,323,764		\$-	\$	21,612,215	\$-	\$-	Sch 9 charges
OGE	AG3-2006-034	1161665	\$	6,567	\$	-	\$	-		\$ 2,000	\$		\$ 11,162	\$ 1,080,000	\$ 1,082,000
OGE	AG3-2006-049	1162077	\$	33,668,638	\$	1,279,932	\$	33,668,638		\$-	\$	139,642,556	\$-	\$-	Sch 9 charges
OMPA	AG3-2006-028	1159596	\$	8,841,737	\$	8,841,737	\$	7,380,000		\$-	\$	26,947,877	\$ 4,455,087	\$-	\$ 4,455,087
OMPA	AG3-2006-050	1162095	\$	5,079,387	\$	5,079,387	\$	5,079,387		\$-	\$	21,611,389	\$-	\$-	Sch 9 charges
SEPC	AG3-2006-113	1162670	\$	273,229	\$	273,229	\$	-	8	- \$	\$	1,224,586	\$ 1,224,586	\$-	\$ 1,224,586
SPSM	AG3-2006-115	1162675	\$	-	\$	-	\$	-	6	; \$ -	\$	-	\$-	\$ 1,741,200	\$ 1,741,200
UCU	AG3-2006-052D	1162075	\$	286,542	\$	286,542	\$	-	8	- \$	\$	1,287,418	\$ 1,287,418	\$ 19,718,640	\$ 19,718,640
UCU	AG3-2006-088D	1162678	\$	140,460	\$	140,460	\$	-	8	- \$	\$	631,079	\$ 631,079		\$ 9,666,000
UCU	AG3-2006-088D	1162681	\$	140,460	\$	140,460	\$	-	8	- \$	\$	631,079	\$ 631,079	\$ 9,666,000	\$ 9,666,000
WRGS	AG3-2006-024D	1161506	\$	1,107,208		-	\$	1,107,208	ç	\$-	\$	2,599,977		\$-	Sch 9 charges
WRGS	AG3-2006-025	1140120	\$	725,752		-	\$			- \$	\$	1,847,670			\$ 1,847,670
WRGS	AG3-2006-036D	1161997	\$	1,159,397	\$	-	\$	1,159,397	ę	- \$	\$	2,587,345	\$-	\$-	Sch 9 charges
Totals			\$	226,486,293							\$	739,158,626	\$ 35,118,357		

								<sup>3</sup> Total Revenue Requirements for	<sup>3 7</sup> Total Revenue Requirements for		<sup>4</sup> Total Cost of Reservation
			<sup>10 11</sup> Engineering and				<sup>4</sup> Additional	•	Assigned Upgrades		Assignable to
			Construction Cost of		<sup>2</sup> Potential Base Plan		Engineering and	over term of	over term of		Customer
			Upgrades Allocated to		Engineering and	-	Construction	reservation without	reservation WITH	Point-to-Point	contingent upon
			Customer for Revenue	<sup>1</sup> Letter of Credit	Construction		Cost for 3rd Party	potential base plan	potential base plan	Base Rate over	base plan
Customer	Study Number	Reservation	Requirements	Amount Required	Funding Allowable	es	Upgrades	funding allocation	funding allocation	reservation period	funding

Note 1: Letter of Credit required for financial security for transmission owner for network upgrades is determined by allocated engineering and construction costsless engineering and construction costs for upgrades when network customer is the transmission owner less the E & C allocation of expedited projects plus network upgrades for assigned upgrades less that \$100,000 which are base plan funded but still require a letter of credit.

Note 2. If potential base plan funding is applicable, this value is the lesser of the Engineering and Construction costs of assignable upgrades or the value of base plan funding calculated pursuant to Attachment J, Section III B criteria. Allocation of base plan funding is contingent upon verification of customer agreements meeting Attachment J, Section II B criteria. Not applicable if PTP base rate exceeds revenue requirements.

Note 3: Revenue Requirements (RR) are based upon deferred end dates if applicable. Deferred dates are based upon customer's choice to pursue redispatch. Achievable Base Plan Avoided RR in the case of a Base Plan upgrade being displaced or deferred by an earlier in service date for a Requested Upgrade shall be determined per Attachment J, Section VII.C methodology. Assumption of a 40 year service life is utilized for Base Plan funded projects. A present worth analysis of RR on a common year basis between the Base Plan and Requested Upgrades was performed to determine avoided Base Plan RR due to the displacement or deferral of the Base Plan upgrade by the Requested Upgrade. The incremental increase in present worth of a Requested Upgrade on a common year basis as a Base Plan upgrade is assigned to the transmission requests impacting the upgrade based on the displacement or deferral. If the displacement analysis results in lower RR due to the shorter amortization period of the requested upgrade when compared to a base plan amortization period, then no direct assignment of the upgrade cost is made due to the displacement to an earlier start date.

Note 4. For PTP requests, total cost is based on the higher of the base rate or assigned upgrade revenue requirements. For Network requests, the total cost is based on the assigned upgrade revenue requirement. Allocation of base plan funding will be determined after verification of designated resource meeting Attachment J, Section II B Criteria. Additionally E & C of 3rd Party upgrades is assignable to Customer. This includes prepayments required for any SWPA upgrades. Revenue requirements for 3rd Party facilities are not calculated. Total cost to customer is based on assumption of Revenue Requirements with confirmation of base plan funding. Customer is responsible for negotiating redispatch costs if applicable. Customer is also responsible to pay credits for previously assigned upgrades that are impacted by their request. Credits required will be determined at a later date.
Note 5: Midwest has a maximum of 385MW total resources for 2007 or 2008 for base plan funding consideration.

Note 6: SPS will be responsible for the net of the present value of the total credit for its upgrade less the present value of the Base Plan Avoided Revenue Requirements. SPP will provide this cost for the upgrade at a later date.

Note 7: RR with base plan funding may increase or decrease even if no base plan funding is applicable to a particular request if another request that shares the upgrade is now full base plan funded resulting in a different amortization period for the upgrade and thus different RR.

Note 8: Resource ratio exceeds 125% load criteria for base plan funding.

Note 9: Westar has a maximum of 7160MW total resources for 2009 base plan consideration. Thus a cap of 920MW new resources eligible for base plan funding with no base funding for 1140120 if 1161506 and 1161997 confirmed. Note 10: E & C for an expedited project was assigned to previous AG customer or a Transmission Owner planned project thus not included in this total.

Note 11: E & C allocation for determination of allocated revenue requirements does not include those upgrades estimated at \$100,000 or less as these are base plan funded. Thus this number sets the cap for base plan funding allowable for remaining assigned upgrades. Allocated E & C in Table 3 does include those upgrades less than \$100,000 in order to establish the allocation per request per upgrade detail which is required for Letter of Credit determination.

Customer Study Number AECC AG3-2006-001

						Requested Stop	Date Without		Plan Funding	Point-to-Point		
Customer	Reservation	POR	POD	Amount	Start Date	Date	Redispatch	Redispatch	Allowable	Base Rate	Cost	Requirements
AECC	1161209	CSWS	CSWS	70	6/1/2011	6/1/2031			\$ 12,600,000	\$	- \$ 16,915,218	\$ 55,622,818
									\$ 12,600,000	\$ .	- \$ 16,915,218	\$ 55,622,818

				Earliest Service	Redispatch	Allocated	dE&C		Total Revenue
Reservation	Upgrade Name	COD	EOC	Start Date	Available	Cost		Total E & C Cost	Requirements
1161209	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 AEPW	6/1/2009	6/1/2009			\$	1,579,353	\$ 9,000,000	\$ 6,504,268
	DYESS - ELM SPRINGS REC 161KV CKT 1	6/1/2011	6/1/2011			\$	295,539	\$ 5,000,000	\$ 1,030,165
	DYESS - TONTITOWN 161KV CKT 1	6/1/2013	6/1/2013			\$	292,149	\$ 500,000	\$ 891,421
	ELM SPRINGS REC - TONTITOWN 161KV CKT 1	6/1/2013	6/1/2013			\$	291,882	\$ 500,000	\$ 890,028
	HEMPSTEAD - NW TEXARKANA 345KV CKT 1	6/1/2011	6/1/2011			\$	5,998,356	\$ 56,000,000	\$ 20,994,276
	Hugo - SunnySide 345kV OKGE	6/1/2011	6/1/2011			\$	61,003	\$ 750,000	\$ 261,260
	Hugo - SunnySide 345kV WFEC	6/1/2011	6/1/2011			\$	4,066,858	\$ 50,000,000	\$ 9,975,606
	SOUTH TEXARKANA REC - TEXARKANA PLANT 69KV CKT 1	6/1/2011	6/1/2011			\$	4,000,000	\$ 4,000,000	\$ 13,926,580
	SUGAR HILL (SUGAR HL) 138/69/12.47KV TRANSFORMER CKT 1	6/1/2011	6/1/2011			\$	330,078	\$ 2,500,000	\$ 1,149,214
					Total	\$	16,915,218	\$ 128,250,000	\$ 55,622,818

Expansion Plan - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1161209	412SUB - KANSAS TAP 161KV CKT 1	6/1/2015	6/1/2015		
	412SUB - KERR 161KV CKT 1	6/1/2015	6/1/2015		
	BONANZA - BONANZA TAP 161KV CKT 1	6/1/2015	6/1/2015		
	BULL SHOALS - BULL SHOALS 161KV CKT 1	6/1/2009	6/1/2009		
	FLINT CREEK - GENTRY REC 161KV CKT 1	6/1/2013	6/1/2013		
	Siloam Springs - South Fayetteville 161 kV	6/1/2016	6/1/2016		
	WALDRON CAPACITOR	6/1/2016	6/1/2016		

#### Construction Pending - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
116120	CHAMBER SPRINGS - TONTITOWN 161KV CKT 1	12/1/2007	6/1/2007		

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1161209	5FLIPN - BULL SHOALS HES 161KV CKT 1	6/1/2011	6/1/2011		
	5HILLTOP 161 - 5ST_JOE 161 161KV CKT 1	6/1/2011	6/1/2011		
	5ST_JOE 161 - EVERTON 161KV CKT 1	6/1/2011	6/1/2011		
	ARKANSAS NUCLEAR ONE 161 - RUSSELLVILLE NORTH 161KV CKT 1	6/1/2010	6/1/2010		
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 ENTR	6/1/2009	6/1/2009		
	EVERTON - HARRISON-EAST 161KV CKT 1	6/1/2011	6/1/2011		
	HARRISON-EAST - SUMMIT 161KV CKT 1	6/1/2016	6/1/2016		
	RUSSELLVILLE EAST - RUSSELLVILLE NORTH 161KV CKT 1	6/1/2011	6/1/2011		
	RUSSELLVILLE EAST - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2011	6/1/2011		

#### Customer AECC Study Number AG3-2006-002

Customer	Reservation	POR	POD	Requested Amount			Requested Stop	Date Without		Plan Funding	Point-to-Point	Allocated E & C Cost	Total Revenue Requirements
AECC	1161136	WR	CSWS		50	12/1/2007			5/1/2028			\$ 1,933,119	
·									•	\$ 900,000	\$ -	\$ 1,933,119	\$ 5,787,66

Reservation	Upgrade Name	COD		Earliest Service Start Date	Redispatch Available	Allocate Cost		Total E & C Cost	Total Revenue Requirements
1161136	ARCADIA - SOONER 345kV CKT 1	6/1/2011	6/1/2011			\$	1,255,766	\$ 65,000,000	\$ 4,052,936
	DYESS - ELM SPRINGS REC 161KV CKT 1	6/1/2011	6/1/2011			\$	209,313	\$ 5,000,000	\$ 565,920
	DYESS - TONTITOWN 161KV CKT 1	6/1/2013	6/1/2013			\$	207,851	\$ 500,000	\$ 491,923
	ELM SPRINGS REC - TONTITOWN 161KV CKT 1	6/1/2013	6/1/2013			\$	208,118	\$ 500,000	\$ 492,235
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER Displacement	6/1/2007	6/1/2011			\$	52,071	\$ 895,333	\$ 184,654
					Total	\$	1,933,119	\$ 71,895,333	\$ 5,787,667

Expansion Plan - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1161136	412SUB - KANSAS TAP 161KV CKT 1	6/1/2015	6/1/2015		
	412SUB - KERR 161KV CKT 1	6/1/2015	6/1/2015		
	ALUMAX TAP - NORTHWEST TEXARKANA 138KV CKT 1	6/1/2008	6/1/2008		
	BONANZA - BONANZA TAP 161KV CKT 1	6/1/2015	6/1/2015		
	BROKEN BOW - CRAIG JUNCTION 138KV CKT 1 AEPW	12/1/2007	5/1/2008		
	FLINT CREEK - GENTRY REC 161KV CKT 1	6/1/2013	6/1/2013		
	Siloam Springs - South Fayetteville 161 kV	6/1/2016	6/1/2016		
	WALDRON CAPACITOR	6/1/2016	6/1/2016		

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1161136	HUGO POWER PLANT - VALLIANT 345 KV AEPW	5/1/2010	5/1/2010		
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	5/1/2010	5/1/2010		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		

Construction Pending - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1161136	CHAMBER SPRINGS - TONTITOWN 161KV CKT 1	12/1/2007	6/1/2007		
	Chamber Springs - Tontitown 345 kV	6/1/2008	6/1/2008		
	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2011		

#### Customer AECC Study Number AG3-2006-003

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								Deferred Start	Deferred Stop Date	Potential Base			
				Requested	Requested	Requested S					Point-to-Point	Allocated F & C	Total Revenue
Customer	Reservation	POR	POD	Amount		Date						Cost	Requirements
AECC	1161131	WR	EES	50		12	2/1/2027				\$ 10,800,000		
		1				1					\$ 10,800,000		
													1 11 11
				Earliest Service		Allocated E 8			Total Revenue				
Reservation	Upgrade Name		EOC		Available	Cost			Requirements				
1161131	ARCADIA - SOONER 345kV CKT 1	6/1/2011	6/1/2011				26,689						
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER Displacement	6/1/2007	6/1/2011		_		54,106						
					Total	\$ 1,1	80,795	\$ 65,895,333	\$ 3,976,342	-			
Europeiro Die													
Expansion Pla	an - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to t	ne transmissio	n customer.	1	1	т							
				Earliest Service	Redispatch								
Reservation	Upgrade Name	COD	EOC	Start Date	Available								
	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1	6/1/2008			Available	+							
1101101		0/1/2000	10/1/2000	4	1	4							
Credits may be	e required for the following network upgrades directly assigned to transmission customers in previous aggregation	ite study.											
						T							
				Earliest Service									
	Upgrade Name		EOC		Available								
1161131	HUGO POWER PLANT - VALLIANT 345 KV AEPW	5/1/2010											
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	5/1/2010				1							
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006	6		1							
Construction F	Pending - The requested service is contingent upon completion of the following upgrades. Cost is not assignable	le to the transr	nission custo	omer.	1	т							
				Earliest Service	Podiepoteb								
Reservation	Upgrade Name	COD	EOC	Start Date	Available								
	IATAN - ST JOE 345KV CKT 1	6/1/2011			Available	+							
		0,1,2011	0/1/201	· ·	1	1							
Third Party Lir	nitations.												
						T							
1				Earliest Service									
	Upgrade Name		EOC	Start Date	Available	1							

					Earliest Service	Redispatch
	Reservation	Upgrade Name	COD	EOC	Start Date	Available
[	1161131	ADAMS CREEK - BOGALUSA 230KV CKT 2	12/1/2007	12/1/2007		
[		WATERFORD - WILLOW GLEN 500KV CKT 1	12/1/2007	12/1/2007		

#### Customer Study Number

AEPM	AG3-2006-039

Customer	Reservation	POR	POD			Requested Stop	Date Without		Plan Funding	Point-to-Point	Allocated E & C Cost	Total Revenue Requirements
AEPM	1158760	CSWS	CSWS	160	7/1/2007	7/1/2012	10/1/2008	10/1/2013	\$ 4,255,613	\$ -	\$ 4,257,184	\$ 4,720,577
									\$ 4,255,613	\$ -	\$ 4,257,184	\$ 4,720,577

-

				Earliest Service	Redispatch	Allocate	ed E & C			Total Rev	/enue
Reservation	Upgrade Name	COD	EOC	Start Date	Available	Cost		Total E & C	Cost	Requirem	nents
1158760	ARSENAL HILL - FORT HUMBUG 138KV CKT 1	6/1/2011	6/1/2011			\$	43,201	\$ 2,7	750,000	\$	65,490
	ARSENAL HILL - MCWILLIE STREET 138KV CKT 1	6/1/2011	6/1/2011			\$	1,571	\$ 1	00,000	\$	-
	ARSENAL HILL - WATERWORKS 69KV CKT 1	6/1/2011	6/1/2011			\$	32,943	\$ 2,0	000,000	\$	49,668
	DYESS - ELM SPRINGS REC 161KV CKT 1	6/1/2011	6/1/2011			\$	2,247,574	\$ 5,0	000,000	\$	3,391,709
	SOUTHWEST SHREVEPORT - SOUTHWEST SHREVEPORT TAP 138KV CKT 1	6/1/2009	6/1/2009			\$	431,895	\$ 2,5	500,000	\$	751,803
	SOUTHWEST SHREVEPORT (SW SHV 1) 345/138/13.8KV TRANSFORMER CKT 1 Expedite	6/1/2008	6/1/2009	10/1/2008	Yes	\$	750,000	\$ 1,5	500,000	\$	230,954
	SOUTHWEST SHREVEPORT (SW SHV 2) 345/138/13.8KV TRANSFORMER CKT 2 Expedite	6/1/2008	6/1/2009	10/1/2008	Yes	\$	750,000	\$ 1,5	500,000	\$	230,954
					Total	\$	4,257,184	\$ 15,3	350,000	\$	4,720,577

Expansion Pla	n - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the	transmission	n customer.	

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
115876	LINWOOD - MCWILLIE STREET 138KV CKT 1	6/1/2007	4/1/2009	10/1/2008	Yes

Credits may be required for the following	p network upgrades directly	y assigned to transmission customers in	previous aggregate	study.	

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1158760	HUGO POWER PLANT - VALLIANT 345 KV AEPW	5/1/2010	5/1/2010		ĺ
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	5/1/2010	5/1/2010		

				Earliest Service	Podicpatch
Reservation	Upgrade Name	COD			Available
1158760	8WELLS 500 - WEBRE 500KV CKT 1	6/1/2008	6/1/2008		
	CLARENCE - MONTGOMERY 230KV CKT 1	6/1/2011	6/1/2011		

#### Customer Study Number

AEPM	AG3-2006-040

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch		Plan Funding	Point-to-Point	Allocated E & C Cost	Total Revenue Requirements
AEPM	1158761	CSWS	CSWS	1	60 11/1/200	7 11/1/2012	10/1/2008	10/1/2013	\$ 4,255,613	\$-	\$ 4,257,184	\$ 4,853,416
									\$ 4,255,613	\$ -	\$ 4,257,184	\$ 4,853,416

				Earliest Service	Redispatch	Allocat	ed E & C			Total F	Revenue
Reservation	Upgrade Name	COD	EOC	Start Date	Available	Cost		Total	E & C Cost	Requir	rements
1158761	ARSENAL HILL - FORT HUMBUG 138KV CKT 1	6/1/2011	6/1/2011			\$	43,201	\$	2,750,000	\$	67,333
	ARSENAL HILL - MCWILLIE STREET 138KV CKT 1	6/1/2011	6/1/2011			\$	1,571	\$	100,000	\$	
	ARSENAL HILL - WATERWORKS 69KV CKT 1	6/1/2011	6/1/2011			\$	32,943	\$	2,000,000	\$	51,065
	DYESS - ELM SPRINGS REC 161KV CKT 1	6/1/2011	6/1/2011			\$	2,247,574	\$	5,000,000	\$	3,487,153
	SOUTHWEST SHREVEPORT - SOUTHWEST SHREVEPORT TAP 138KV CKT 1	6/1/2009	6/1/2009			\$	431,895	\$	2,500,000	\$	772,959
	SOUTHWEST SHREVEPORT (SW SHV 1) 345/138/13.8KV TRANSFORMER CKT 1 Expedite	6/1/2008	6/1/2009	10/1/2008	Yes	\$	750,000	\$	1,500,000	\$	237,453
	SOUTHWEST SHREVEPORT (SW SHV 2) 345/138/13.8KV TRANSFORMER CKT 2 Expeddte	6/1/2008	6/1/2009	10/1/2008	Yes	\$	750,000	\$	1,500,000	\$	237,453
					Total	\$	4.257.184	\$	15.350.000	s	4.853.416

Expansion Plan - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

				Earliest Service	Redispatch
Reserva	upgrade Name	COD	EOC	Start Date	Available
11	3761 LINWOOD - MCWILLIE STREET 138KV CKT 1	6/1/2007	4/1/2009	10/1/2008	Yes

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1158761	HUGO POWER PLANT - VALLIANT 345 KV AEPW	5/1/2010	5/1/2010		1
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	5/1/2010	5/1/2010		

				Earliest Service	Redispatch
Reservation I	Upgrade Name	COD	EOC	Start Date	Available
1158761	8WELLS 500 - WEBRE 500KV CKT 1	6/1/2008	6/1/2008		
0	CLARENCE - MONTGOMERY 230KV CKT 1	6/1/2011	6/1/2011		

#### Customer Study Number AEPM AG3-2006-043

AG3-2000-043

Customer	Reservation	POR	POD	Requested Amount			Date Without		Plan Funding	Point-to-Point	Allocated E & C Cost	Total Revenue Requirements
AEPM	1162211	OKGE	CSWS	45	6/1/2011	6/1/2031			\$ 38,626,114	\$-	\$ 38,830,645	\$ 163,452,09
						· ·		· ·	\$ 38,626,114	s -	\$ 38,830,645	\$ 163,452,091

Reservation	Upgrade Name	COD		Earliest Service Start Date	Redispatch Available	Alloca Cost	ted E & C	Total E		Revenue
	ARCADIA - SOONER 345kV CKT 1	6/1/2011	6/1/2011		Available	\$	31.123.006		65,000,000	133,213,785
	ARSENAL HILL - FORT HUMBUG 138KV CKT 1	6/1/2011	6/1/2011			\$	124,594		2,750.000	436.278
	ARSENAL HILL - MCWILLIE STREET 138KV CKT 1	6/1/2011	6/1/2011			\$	4,531	\$	100,000	\$ -
	ARSENAL HILL - WATERWORKS 69KV CKT 1	6/1/2011	6/1/2011			\$	95,417	\$	2,000,000	\$ 332,294
	CANADIAN - CEDAR LANE 138KV CKT 1	6/1/2011	6/1/2011			\$	100,000	\$	100,000	\$ -
	FRANKLIN SW - MIDWEST TAP 138KV CKT 1 OKGE Displacement	6/1/2014	6/1/2014			\$	14,587	\$	14,587	\$ 49,782
	FRANKLIN SW - MIDWEST TAP 138KV CKT 1 WFEC	6/1/2014	6/1/2014			\$	100,000	\$	100,000	\$ -
	MILLER - WHITE EAGLE 138KV CKT 1	6/1/2011	6/1/2011			\$	126,385	\$	300,000	\$ 543,775
	ROSEHILL - SOONER 345KV CKT 1 OKGE Displacement	6/1/2011	6/1/2011			\$	3,766,860	\$	6,322,628	\$ 16,252,332
	ROSEHILL - SOONER 345KV CKT 1 WERE Displacement	6/1/2011	6/1/2011			\$	2,190,826	\$	3,677,275	\$ 7,861,442
	SOUTHWEST SHREVEPORT - SOUTHWEST SHREVEPORT TAP 138KV CKT 1	6/1/2009	6/1/2009			\$	1,184,439	\$	2,500,000	\$ 4,762,404
					Total	\$	38,830,645	\$	82,864,490	\$ 163,452,091

Expansion Plan - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

					Earliest Service	Redispatch
F	Reservation	Upgrade Name	COD	EOC	Start Date	Available
	1162211	ALUMAX TAP - NORTHWEST TEXARKANA 138KV CKT 1	6/1/2008	6/1/2008		
		LINWOOD - MCWILLIE STREET 138KV CKT 1	6/1/2007	4/1/2009	10/1/2008	No

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1162211	HUGO POWER PLANT - VALLIANT 345 KV AEPW	5/1/2010	5/1/2010		Í
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	5/1/2010	5/1/2010		

Construction Pending - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1162211	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2011		

#### Customer Study Number AEPM AG3-2006-044

					Requested	Requested			Deferred Stop Date Without	Potential Base Plan Funding		Allocated E & C	Total Revenue
Customer	Reservation		POR	POD	Amount	Start Date	Date	Redispatch	Redispatch	Allowable	Base Rate	Cost	Requirements
AEPM		1162214	CSWS	CSWS	455	6/1/2011	6/1/2031			\$ 67,479,233	\$-	\$ 67,479,233	\$ 211,328,846
										\$ 67,479,233	\$-	\$ 67,479,233	\$ 211,328,846

				Earliest Service	Redispatch	Allocat	ed E & C		Total Revenue
Reservation	Upgrade Name	COD	EOC	Start Date	Available	Cost		Total E & C Cost	Requirements
1162214	HEMPSTEAD - NW TEXARKANA 345KV CKT 1	6/1/2011	6/1/2011			\$	41,298,299	\$ 56,000,000	\$ 144,544,253
	Hugo - SunnySide 345kV OKGE	6/1/2011	6/1/2011			\$	359,509	\$ 750,000	\$ 1,539,683
	Hugo - SunnySide 345kV WFEC	6/1/2011	6/1/2011			\$	23,967,247	\$ 50,000,000	\$ 58,789,322
	SUGAR HILL (SUGAR HL) 138/69/12.47KV TRANSFORMER CKT 1	6/1/2011	6/1/2011			\$	1,854,178	\$ 2,500,000	\$ 6,455,590
	·				Total	S	67.479.233	\$ 109.250.000	\$ 211.328.846

Reservation	Uoorade Name	COD		Earliest Service Start Date	Redispatch Available
	ARKANSAS NUCLEAR ONE 161 - RUSSELLVILLE NORTH 161KV CKT 1	6/1/2010			Available
	RUSSELLVILLE EAST - RUSSELLVILLE NORTH 161KV CKT 1	6/1/2011	6/1/2011		
	RUSSELLVILLE EAST - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2011	6/1/2011		

#### Customer Study Number AEPM AG3-2006-091

AEPM AG3-2006-091

			1			1		1	1			
							Deferred Start	Deferred Stop Date				
				Requested	Requested	Requested Stop	Date Without	Without	Plan Funding	Point-to-Point	Allocated E & C	Total Revenue
Customer	Reservation	POR	POD	Amount	Start Date	Date	Redispatch	Redispatch	Allowable	Base Rate	Cost	Requirements
AEPM	1162766	CSWS	CSWS	100	6/1/2007	6/1/2008	10/1/2008	10/1/2009	\$-	\$ 1,260,000	\$ 58,778	\$ 93,832
						· ·		· ·	s -	\$ 1,260,000	\$ 58,778	\$ 93.832

Reservation	Upgrade Name	COD		Earliest Service Start Date		Allocated E & C Cost		Total Revenue Requirements
						CUSI		Requirements
1162766	5 TRIBES - HANCOCK 161KV CKT 1	6/1/2007	6/1/2008	10/1/2007	Yes	\$ 10,376	\$ 100,000	\$-
	5 TRIBES - PECAN CREEK 161KV CKT 1 Displacement	6/1/2007	6/1/2008	10/1/2007	Yes	\$ 48,402	\$ 466,473	\$ 93,832
					Total	\$ 58,778	\$ 566,473	\$ 93,832

Expansion Plar	cpansion Plan - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.									
				Earliest Service	Redispatch					
Reservation	Upgrade Name	COD	EOC	Start Date	Available					
1162766	LINWOOD - MCWILLIE STREET 138KV CKT 1	6/1/2007	4/1/2009	10/1/2008	Yes					

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1162766	ARCADIA - REDBUD 345 KV CKT 1	6/1/2006	6/1/2006		
	ARCADIA - REDBUD 345 KV CKT 2	6/1/2006	6/1/2006		

Construction P	ending - The requested service is contingent upon completion of the following upgrades. Cost is not assignable	to the transh	hission custo	mer.	
				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1162766	PECAN CREEK (PECANCK1) 345/161/13.8KV TRANSFORMER CKT 1	6/1/2007	6/1/2008	10/1/2007	Yes
	RIVERSIDE - PECAN CREEK - MUSKOGEE 345 kV	6/1/2007	6/1/2008	10/1/2007	Yes

#### Customer Study Number AEPM AG3-2006-092

				Requested	Requested		Deferred Start Date Without		Plan Funding		Allocated E & C	Total Revenue
Customer Reser	rvation F	POR	POD	Amount	Start Date	Date	Redispatch	Redispatch	Allowable	Base Rate	Cost	Requirements
AEPM	1162763 C	CSWS	CSWS	100	6/1/2007	6/1/2008	10/1/2008	10/1/2009	\$-	\$ 1,260,000	\$ 47,748	\$ 76,223
									\$ -	\$ 1,260,000	\$ 47,748	\$ 76,223

				Earliest Service	Redispatch	Allocated E & C			Total Revenue
Reservation	Upgrade Name	COD	EOC	Start Date	Available	Cost	٦	Total E & C Cost	Requirements
1162763	5 TRIBES - HANCOCK 161KV CKT 1	6/1/2007	6/1/2008	10/1/2007	Yes	\$ 8,42	29	\$ 100,000	\$-
	5 TRIBES - PECAN CREEK 161KV CKT 1 Displacement	6/1/2007	6/1/2008	10/1/2007	Yes	\$ 39,31	19	\$ 466,473	\$ 76,223
					Total	\$ 47.74	48	\$ 566.473	\$ 76.223

Expansion Plan - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1162763	LINWOOD - MCWILLIE STREET 138KV CKT 1	6/1/2007	4/1/2009	10/1/2008	Yes

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

					Earliest Service	Redispatch
Rese	ervation	Upgrade Name	COD	EOC	Start Date	Available
	1162763	ARCADIA - REDBUD 345 KV CKT 1	6/1/2006	6/1/2006		
		ARCADIA - REDBUD 345 KV CKT 2	6/1/2006	6/1/2006		

Construction Pending - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

Reservation         Upgrade Name         COD         EOC         Start Date         Available           1162763         PECAN CREEK (PECANCK1)         345/161/13.8KV TRANSFORMER CKT 1         61/2007         61/2007         Fest					Earliest Service	Redispatch
1162763 PECAN CREEK (PECANCK1) 345/161/13.8KV TRANSFORMER CKT 1 6/1/2007 6/1/2008 10/1/2007 Yes	Reservation	Upgrade Name	COD	EOC	Start Date	Available
	1162763	PECAN CREEK (PECANCK1) 345/161/13.8KV TRANSFORMER CKT 1	6/1/2007	6/1/2008	10/1/2007	Yes
RIVERSIDE - PECAN CREEK - MUSKOGEE 345 kV 6/1/2007 6/1/2008 10/1/2007 Yes		RIVERSIDE - PECAN CREEK - MUSKOGEE 345 kV	6/1/2007	6/1/2008	10/1/2007	Yes

#### Customer Study Number

AEPM	AG3-2006-094

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Plan Funding	Point-to-Point	Allocated E & C Cost	Requirements
AEPM	1163062	CSWS	CSWS	550	6/1/2010	6/1/2015		\$ 34,167,922	\$-	\$ 36,760,249	\$ 62,857,049
								\$ 34,167,922	6	\$ 36 760 249	\$ 62,857,049

				Earliest Service	Redispatch	Allocate	ed E & C		т	Total Revenue
Reservation	Upgrade Name	COD	EOC	Start Date	Available	Cost		Total E & C Cos	t F	Requirements
1163062	ARSENAL HILL - FORT HUMBUG 138KV CKT 1	6/1/2011	6/1/2011			\$	2,539,005	\$ 2,750,0	000	\$ 4,894,979
	ARSENAL HILL - MCWILLIE STREET 138KV CKT 1	6/1/2011	6/1/2011			\$	92,327	\$ 100,0	000	\$ -
	ARSENAL HILL - WATERWORKS 69KV CKT 1	6/1/2011	6/1/2011			\$	1,838,697	\$ 2,000,0	000	\$ 3,525,565
	ARSENAL HILL (ARSHILL1) 138/69/12.47KV TRANSFORMER CKT 1	6/1/2011	6/1/2011			\$	2,500,000	\$ 2,500,0	000	\$ 3,702,088
	ARSENAL HILL (ARSHILL2) 138/69/14.5KV TRANSFORMER CKT 2	6/1/2011	6/1/2011			\$	2,500,000	\$ 2,500,0	000	\$ 3,702,088
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 AEPW	6/1/2009	6/1/2009			\$	6,801,987	\$ 9,000,0	000	\$ 15,423,263
	Hugo - SunnySide 345kV OKGE	6/1/2011	6/1/2011			\$	265,836	\$ 750,0	000	\$ 593,744
	Hugo - SunnySide 345kV WFEC	6/1/2011	6/1/2011			\$	17,722,397	\$ 50,000,0	000	\$ 31,015,323
					Total	s	34 260 249	\$ 69,600,0	000	\$ 62 857 049

#### Expansion Plan - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1163062	ARSENAL HILL - NORTH MARKET 69KV CKT 1	6/1/2011	6/1/2011		
	LINWOOD - MCWILLIE STREET 138KV CKT 1	6/1/2007	4/1/2009	10/1/2008	
	PORT ROBSON - REDPOINT 138kV	6/1/2011	6/1/2011		

#### Third Party Limitations.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1163062	ARKANSAS NUCLEAR ONE 161 - RUSSELLVILLE NORTH 161KV CKT 1	6/1/2010	6/1/2010		
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 ENTR	6/1/2009	6/1/2009		
	RUSSELLVILLE EAST - RUSSELLVILLE NORTH 161KV CKT 1	6/1/2011	6/1/2011		
	RUSSELLVILLE EAST - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2011	6/1/2011		

#### Customer Study Number GRDX AG3-2006-032

0		200		•		Requested Stop	Deferred Start Date Without		Plan Funding	Point-to-Point	Allocated E & C T	
Customer	Reservation			Amount		Date			Allowable	Base Rate		equirements
GRDX	1161666	CSWS	GRDA	150	2/1/2007	2/1/2008	10/1/2008	10/1/2009	\$ -	\$ -	\$ 1,307,583 \$	1,533,725
									\$-	\$-	\$ 1,307,583 \$	1,533,725

				Earliest Service		Allocate	ed E & C		Total Re	
Reservation	Upgrade Name	COD	EOC	Start Date	Available	Cost		Total E & C Cost	Requirer	ments
1161666	5 TRIBES - HANCOCK 161KV CKT 1	6/1/2007	6/1/2008	10/1/2007	Yes	\$	26,888	\$ 100,000	\$	-
	5 TRIBES - PECAN CREEK 161KV CKT 1 Displacement	6/1/2007	6/1/2008	10/1/2007	Yes	\$	125,423	\$ 466,473	\$	243,144
	CLAREMORE (CLRAUTO3) 161/69/13.8KV TRANSFORMER CKT 3	6/1/2007	6/1/2009	10/1/2008	Yes	\$	1,155,272	\$ 2,300,000	\$	1,290,581
					Total	\$	1.307.583	\$ 2,866,473	S	1.533.725

#### Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

					Earliest Service	Redispatch
	Reservation	Upgrade Name	COD	EOC	Start Date	Available
ſ	1161666	ARCADIA - REDBUD 345 KV CKT 1	6/1/2006	6/1/2006		
ſ		ARCADIA - REDBUD 345 KV CKT 2	6/1/2006	6/1/2006		

Const	truction P	ending - The requested service is contingent upon completion of the following upgrades. Cost is not assignable	to the transn	nission custor	mer.	
					Earliest Service	Redispatch
Reser	rvation	Upgrade Name	COD	EOC	Start Date	Available
	1161666	PECAN CREEK (PECANCK1) 345/161/13.8KV TRANSFORMER CKT 1	6/1/2007	6/1/2008	10/1/2007	Yes
		RIVERSIDE - PECAN CREEK - MUSKOGEE 345 kV	6/1/2007	6/1/2008	10/1/2007	Yes

#### Customer Study Number

GRDX AG3-2006-033

Customer	Reservation		POR				Requested Stop Date	Date Without			Point-to-Point	Allocated E & C Cost	Total Revenue Requirements
GRDX		1161667	OKGE	GRDA	150	2/1/2007	2/1/2008	10/1/2008	10/1/2009	\$ -	- \$	\$ 1,246,769	\$ 1,441,698
										\$ -	- \$	\$ 1,246,769	\$ 1,441,698

				Earliest Service	Redispatch	Allocate	d E & C		Total Revenue
Reservation	Upgrade Name	COD	EOC	Start Date	Available	Cost		Total E & C Cost	Requirements
1161667	5 TRIBES - HANCOCK 161KV CKT 1	6/1/2007	6/1/2008	10/1/2007	Yes	\$	18,013	\$ 100,000	\$-
	5 TRIBES - PECAN CREEK 161KV CKT 1 Displacement	6/1/2007	6/1/2008	10/1/2007	Yes	\$	84,028	\$ 466,473	\$ 162,896
	CLAREMORE (CLRAUTO3) 161/69/13.8KV TRANSFORMER CKT 3	6/1/2007	6/1/2009	10/1/2008	Yes	\$	1,144,728	\$ 2,300,000	\$ 1,278,802
					Total	\$	1,246,769	\$ 2,866,473	\$ 1,441,698

#### Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1161667	ARCADIA - REDBUD 345 KV CKT 1	6/1/2006	6/1/2006		
	ARCADIA - REDBUD 345 KV CKT 2	6/1/2006	6/1/2006		

Construction Pending - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1161667	PECAN CREEK (PECANCK1) 345/161/13.8KV TRANSFORMER CKT 1	6/1/2007	6/1/2008	10/1/2007	Yes
	RIVERSIDE - PECAN CREEK - MUSKOGEE 345 kV	6/1/2007	6/1/2008	10/1/2007	Yes

#### Customer Study Number KCPS AG3-2006-101

					Requested Stop	Date Without		Plan Funding	Point-to-Point		Total Revenue
Customer KCPS	POR AECI	KCPL	Amount 50	Start Date 6/1/2007		Redispatch 10/1/2008	Redispatch 10/1/2009	Allowable \$-	Base Rate \$-	\$-	Requirements \$ -
								\$-	\$ -	\$-	\$-

				Earliest Service	Redispatch	Allocated E & C		Total Revenue	
Reservation	Upgrade Name	COD	EOC	Start Date	Available	Cost	Total E & C Cost	Requirements	
1162686	None					\$-	\$ -	\$	
					Total	\$ -	\$ -	\$ -	7

Ex	pansion Plan	- The rec	uested service	e is continger	nt upon co	ompletion o	f the following	g upgrades.	Cost is not assi	gnable to the	transmission	n customer.	

					Earliest Service	Redispatch
	Reservation	Upgrade Name	COD	EOC	Start Date	Available
ſ	1162686	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2007	6/1/2009	10/1/2008	Yes
ſ		MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2007	6/1/2007		

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1162686	ARCADIA - REDBUD 345 KV CKT 1	6/1/2006	6/1/2006		
	ARCADIA - REDBUD 345 KV CKT 2	6/1/2006	6/1/2006		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		

#### Customer Study Number

KCPS	AG3-2006-103

Customer	Reservation	POR	POD		Requested Start Date	Requested Stop Date	Date Without		Plan Funding		Allocated E & C Cost	Total Revenue Requirements
KCPS	1162650	KCPL	CLEC	52	2/1/2007	2/1/2008	6/1/2008	6/1/2009	\$ -	\$ 655,200	\$-	\$
KCPS	1162651	KCPL	CLEC	51	2/1/2007	2/1/2008	6/1/2008	6/1/2009	\$-	\$ 642,600	\$-	\$
					•				\$-	\$ 1,297,800	\$-	\$

				Earliest Service	Redispatch	Allocated E & C		Total Revenue
Reservation	Upgrade Name	COD	EOC	Start Date	Available	Cost	Total E & C Cost	Requirements
1162650	None					\$	\$-	\$ -
					Total	\$-	\$-	\$-
1162651	None					\$-	\$-	\$-
					Total	s -	s -	S -

Expansion Plan - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

Expansion Pla	n - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the	transmissior	n customer.		
				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1162650	BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1	6/1/2007	6/1/2008		Yes
1162651	BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1	6/1/2007	6/1/2008		Yes

Third Party Lin	nitations.				
Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1162650	3GRENWD 115 - HUMPHREY 115KV CKT 1	6/1/200	6/1/2007		
	3GRENWD 115 - TERREBONNE 115KV CKT 1	6/1/200	6/1/2007		
	4KSPRGS 138 - CHAMPAGNE 138KV CKT 1	6/1/200	6/1/2007		
	4KSPRGS 138 - LINE 642 TAP 138KV CKT 1	6/1/200	6/1/2007	•	
	ADAMS CREEK - BOGALUSA 230KV CKT 2	12/1/200	7 12/1/2007	•	
	GIBSON - HUMPHREY 115KV CKT 1	6/1/200	6/1/2007	•	
	GIBSON - RAMOS 138KV CKT 1	6/1/200	6/1/2007	•	
	LINE 642 TAP - LIVONIA BULK 138KV CKT 1	6/1/200	6/1/2007	•	
	LIVONIA BULK - WILBERT 138KV CKT 1	6/1/200	6/1/2007	•	
1162651	3GRENWD 115 - HUMPHREY 115KV CKT 1	6/1/200	6/1/2007		
	3GRENWD 115 - TERREBONNE 115KV CKT 1	6/1/200	6/1/2007		
	4KSPRGS 138 - CHAMPAGNE 138KV CKT 1	6/1/200	6/1/2007		
	4KSPRGS 138 - LINE 642 TAP 138KV CKT 1	6/1/200	6/1/2007	•	
	ADAMS CREEK - BOGALUSA 230KV CKT 2	12/1/200	7 12/1/2007	•	
	GIBSON - HUMPHREY 115KV CKT 1	6/1/200	6/1/2007	•	
	GIBSON - RAMOS 138KV CKT 1	6/1/200	6/1/2007		
	LINE 642 TAP - LIVONIA BULK 138KV CKT 1	6/1/200	6/1/2007		
	LIVONIA BULK - WILBERT 138KV CKT 1	6/1/200	6/1/2007		

#### Customer KCPS Study Number AG3-2006-104

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Date Without		Plan Funding	Point-to-Point	Allocated E & C Cost	Total Revenue Requirements
KCPS	1162654	KCPL	SPA	1	6 2/1/200	7 2/1/2008	6/1/2008	6/1/2009	\$-	\$ 172,800	\$ 7,586	\$ 12,110
									\$-	\$ 172,800	\$ 7,586	\$ 12,110

				Earliest Service	Redispatch	Allocated E & C		Total Revenue
Reservation	Upgrade Name	COD	EOC	Start Date	Available	Cost	Total E & C Cost	Requirements
1162654	5 TRIBES - HANCOCK 161KV CKT 1	6/1/2007	6/1/2008	10/1/2007	Yes	\$ 1,339	\$ 100,000	\$-
	5 TRIBES - PECAN CREEK 161KV CKT 1 Displacement	6/1/2007	6/1/2008	10/1/2007	Yes	\$ 6,247	\$ 466,473	\$ 12,110
					Total	\$ 7,586	\$ 566,473	\$ 12,110

Earliest Service Redisp	atch
Reservation Upgrade Name COD EOC Start Date Availab	le
1162654 BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1 6/1/2007 6/1/2008 Yes	

Construction Pending - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1162654	PECAN CREEK (PECANCK1) 345/161/13.8KV TRANSFORMER CKT 1	6/1/2007	6/1/2008	10/1/2007	Yes
	RIVERSIDE - PECAN CREEK - MUSKOGEE 345 kV	6/1/2007	6/1/2008	10/1/2007	Yes

#### Customer Study Number KCPS AG3-2006-106

						Requested Stop	Date Without		Plan Funding			Total Revenue
Customer			POD	Amount							Cost	Requirements
KCPS	1162649	WPEK	KCPL	101	2/1/2007	2/1/2037	10/1/2008	10/1/2038	\$ 850,000	\$-	\$ 850,000	\$ 1,852,095
									\$ 850,000	\$-	\$ 850,000	\$ 1,852,095

				Earliest Service	Redispatch	Allocated E & C		Total Revenue
Reservation	Upgrade Name	COD	EOC	Start Date	Available	Cost	Total E & C Cost	Requirements
	COLLEGE - CRAIG 161KV CKT 1 Expedite	6/1/2011	6/1/2011			\$ 700,000	\$ 700,000	
	MEDICINE LODGE - SUN CITY 115KV CKT 1	6/1/2007	4/1/2008	10/1/2007	Yes	\$ 150,000	\$ 150,000	\$ 709,759
					Total	\$ 850,000	\$ 850,000	\$ 1,852,095

Expansion E	Plan - The requested service is co	ntingent upon completion of the fol	llowing upgrades. Cost is not assigna	his to the transmission customer

				Earliest Service	
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1162649	AVONDALE - GLADSTONE 161KV CKT 1	6/1/2016	6/1/2016		
	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2007	6/1/2009	10/1/2008	Yes
	GREENSBURG - JUDSON LARGE 115KV CKT 1	6/1/2007	6/1/2007		
	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2007	6/1/2007		

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1162649	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		

Customer Study Number

MIDW	AG3-2006-062
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Customer	Reservation	POR				Requested Stop Date	Date Without		Plan Funding	Point-to-Point Base Rate	Allocated E & C Cost	Total Rev Requirem	
MIDW	1162137	WR	WR	20	6/1/2008			6/1/2040		\$ -	\$ 40,000		230,867
MIDW	1162141	WR	WR	5	6/1/2008	6/1/2038	6/1/2010	6/1/2040	\$-	\$-	\$ 9,997	\$	57,699
MIDW	1162142	WR	WR	40	6/1/2008	6/1/2038	6/1/2010	6/1/2040	\$ -	\$ -	\$ 80,000	\$	461,733 115,433
MIDW	1162143	WR	WR	10	6/1/2008	6/1/2038	6/1/2010	6/1/2040	\$	\$-	\$ 20,000	\$	115,433
									\$-	\$-	\$ 149,997	\$	865,731

				Earliest Service	Redispatch	Allocated E & C		Total Revenue
Reservation	Upgrade Name	COD			Available	Cost	Total E & C Cost	Requirements
1162137	EXIDE JUNCTION - NORTH AMERICAN PHILIPS 115KV CKT 1	6/1/2007	6/1/2010			\$ 4,845	\$ 300,000	\$ 28,398
	EXIDE JUNCTION - SUMMIT 115KV CKT 1	6/1/2007	6/1/2010			\$ 30,264	\$ 2,000,000	\$ 173,076
	NORTHVIEW - SUMMIT 115KV CKT 1	6/1/2007	6/1/2010			\$ 4,891	\$ 610,000	\$ 29,392
					Total	\$ 40,000	\$ 2,910,000	\$ 230,866
1162141	EXIDE JUNCTION - NORTH AMERICAN PHILIPS 115KV CKT 1	6/1/2007	6/1/2010			\$ 1,211	\$ 300,000	\$ 7,098
	EXIDE JUNCTION - SUMMIT 115KV CKT 1	6/1/2007	6/1/2010			\$ 7,566	\$ 2,000,000	\$ 43,269
	NORTHVIEW - SUMMIT 115KV CKT 1	6/1/2007	6/1/2010			\$ 1,220	\$ 610,000	\$ 7,331
					Total	\$ 9,997	\$ 2,910,000	\$ 57,699
1162142	EXIDE JUNCTION - NORTH AMERICAN PHILIPS 115KV CKT 1	6/1/2007	6/1/2010			\$ 9,690	\$ 300,000	\$ 56,797
	EXIDE JUNCTION - SUMMIT 115KV CKT 1	6/1/2007	6/1/2010			\$ 60,528	\$ 2,000,000	\$ 346,153
	NORTHVIEW - SUMMIT 115KV CKT 1	6/1/2007	6/1/2010			\$ 9,782	\$ 610,000	\$ 58,784
					Total	\$ 80,000	\$ 2,910,000	\$ 461,733
1162143	EXIDE JUNCTION - NORTH AMERICAN PHILIPS 115KV CKT 1	6/1/2007	6/1/2010			\$ 2,422	\$ 300,000	\$ 14,196
	EXIDE JUNCTION - SUMMIT 115KV CKT 1	6/1/2007	6/1/2010			\$ 15,132	\$ 2,000,000	\$ 86,538
	NORTHVIEW - SUMMIT 115KV CKT 1	6/1/2007	6/1/2010			\$ 2,446	\$ 610,000	\$ 14,699
					Total	\$ 20,000	\$ 2,910,000	\$ 115,433

Expansion Plan - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

Linerado Nomo	000			Redispatch Available
				Available
PLAINVILLE CAPACITOR	6/1/2009	6/1/2009		
HEIZER 115/69KV TRANSFORMER CKT 1	6/1/2016	6/1/2016		
HEIZER 115/69KV TRANSFORMER CKT 2	6/1/2016	6/1/2016		
PLAINVILLE CAPACITOR	6/1/2009	6/1/2009		
HEIZER 115/69KV TRANSFORMER CKT 1	6/1/2016	6/1/2016		
HEIZER 115/69KV TRANSFORMER CKT 2	6/1/2016	6/1/2016		
PLAINVILLE CAPACITOR	6/1/2009	6/1/2009		
HEIZER 115/69KV TRANSFORMER CKT 1	6/1/2016	6/1/2016		
HEIZER 115/69KV TRANSFORMER CKT 2	6/1/2016	6/1/2016		
PLAINVILLE CAPACITOR	6/1/2009	6/1/2009		
	HÉIZER 115/69KV TRANSFORMER CKT 1 HEIZER 115/69KV TRANSFORMER CKT 2 PLAINVILLE CAPACITOR HEIZER 115/69KV TRANSFORMER CKT 1 HEIZER 115/69KV TRANSFORMER CKT 2 PLAINVILLE CAPACITOR HEIZER 115/69KV TRANSFORMER CKT 2 PLAINVILLE CAPACITOR HEIZER 115/69KV TRANSFORMER CKT 2 HEIZER 115/69KV TRANSFORMER CKT 1 HEIZER 115/69KV TRANSFORMER CKT 2 HEIZER 115/69KV TRAN	HÉIZER 115/69KV TRANSFORMER CKT 1         6/1/2016           HEIZER 113/69KV TRANSFORMER CKT 2         6/1/2016           PLAINVILLE CAPACITOR         6/1/2016           HEIZER 113/69KV TRANSFORMER CKT 1         6/1/2016           HEIZER 115/69KV TRANSFORMER CKT 1         6/1/2016           HEIZER 115/69KV TRANSFORMER CKT 2         6/1/2016           PLAINVILLE CAPACITOR         6/1/2016           PLAINVILLE CAPACITOR         6/1/2016           HEIZER 115/69KV TRANSFORMER CKT 2         6/1/2016	Upgrade Name         COD         EOC           HEIZER 115/69KV TRANSFORMER CKT 1         6/1/2016         6/1/2016         6/1/2016           HEIZER 115/69KV TRANSFORMER CKT 2         6/1/2016         6/1/2016         6/1/2016           PLAINVILLE CAPACITOR         6/1/2016         6/1/2016         6/1/2016           HEIZER 115/69KV TRANSFORMER CKT 1         6/1/2016         6/1/2016         6/1/2016           HEIZER 115/69KV TRANSFORMER CKT 1         6/1/2016         6/1/2016         6/1/2016           HEIZER 115/69KV TRANSFORMER CKT 2         6/1/2016         6/1/2016         6/1/2016           PLAINVILLE CAPACITOR         6/1/2016         6/1/2016         6/1/2016           HEIZER 115/69KV TRANSFORMER CKT 1         6/1/2016         6/1/2016         6/1/2016           HEIZER 115/69KV TRANSFORMER CKT 2         6/1/2016         6/1/2016         6/1/2016           PLAINVILLE CAPACITOR         6/1/2016         6/1/2016         6/1/2016           HEIZER 115/69KV TRANSFORMER CKT 1         6/1/2016         6/1/2016         6/1/2016           HEIZER 115/69KV TRANSFORMER CKT 1         6/1/2016         6/1/2016         6/1/2016	HÉIZER 115/69KV TRANSFORMER CKT 1         6/1/2016         6/1/2016           HEIZER 115/69KV TRANSFORMER CKT 2         6/1/2016         6/1/2016           PLAINVILLE CAPACITOR         6/1/2016         6/1/2016           HEIZER 115/69KV TRANSFORMER CKT 1         6/1/2016         6/1/2016           HEIZER 115/69KV TRANSFORMER CKT 1         6/1/2016         6/1/2016           HEIZER 115/69KV TRANSFORMER CKT 2         6/1/2016         6/1/2016           PLAINVILLE CAPACITOR         6/1/2016         6/1/2016           HEIZER 115/69KV TRANSFORMER CKT 1         6/1/2016         6/1/2016           HEIZER 115/69KV TRANSFORMER CKT 1         6/1/2016         6/1/2016           HEIZER 115/69KV TRANSFORMER CKT 2         6/1/2016         6/1/2016           HEIZER 115/69KV TRANSFORMER CKT 2         6/1/2016         6/1/2016           HEIZER 115/69KV TRANSFORMER CKT 2         6/1/2016         6/1/2016           HEIZER 115/69KV TRANSFORMER CKT 1         6/1/2016         6/1/2016           HEIZER 115/69KV TRANSFORMER CKT 2         6/1/2016         6/1/2016

Construction Pending - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer...

				Earliest Service	Redispatch
		COD	EOC	Start Date	Available
1162137	PHILLIPSBURG - RHOADES	6/1/2008	12/1/2008	10/1/2008	
	WICHITA - RENO 345KV	6/1/2007	7/1/2009		
1162141	PHILLIPSBURG - RHOADES	6/1/2008	12/1/2008	10/1/2008	
	WICHITA - RENO 345KV	6/1/2007	7/1/2009		
1162142	PHILLIPSBURG - RHOADES	6/1/2008	12/1/2008	10/1/2008	
	WICHITA - RENO 345KV	6/1/2007	7/1/2009		
1162143	PHILLIPSBURG - RHOADES	6/1/2008	12/1/2008	10/1/2008	
	WICHITA - RENO 345KV	6/1/2007	7/1/2009		

Customer Study Number

NIDW	AG3-2006-086

Customer	Reservation	POR				Requested Stop Date	Date Without		Plan Funding		Allocated E & C Cost	Total Revenue Requirements
MIDW	1162102	WR	WR	25	6/1/2007	6/1/2017	6/1/2010	6/1/2020	\$-	\$-	\$ 5,752	\$ 18,902
·									\$-	\$-	\$ 5,752	\$ 18,902

				Earliest Service	Redispatch	Allocated E & C		Total Revenue
Reservation	Upgrade Name	COD	EOC	Start Date	Available	Cost	Total E & C Cost	Requirements
1162102	EXIDE JUNCTION - NORTH AMERICAN PHILIPS 115KV CKT 1	6/1/2007	6/1/2010			\$ 794	\$ 300,000	\$ 2,665
	EXIDE JUNCTION - SUMMIT 115KV CKT 1	6/1/2007	6/1/2010			\$ 4,958	\$ 2,000,000	\$ 16,237
					Total	\$ 5,752	\$ 2,300,000	\$ 18,902

Expansion Plan - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

				Earliest Service	
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1162102	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	6/1/2007	6/1/2009		
	CLAY CENTER - GREENLEAF 115KV CKT 1	6/1/2007	6/1/2009		
	Evans - Grant - Chisolm Rebuild and Conversion Project	6/1/2007	6/1/2009		
	GILL ENERGY CENTER EAST - GILLJCT269.0 69KV CKT 1	6/1/2007	6/1/2008	10/1/2007	
	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1	6/1/2007	7/1/2007		
	HAYS PLANT - SOUTH HAYS 115KV CKT 1	6/1/2008	6/1/2009		
	HAYS PLANT - VINE STREET 115KV CKT 1	6/1/2008	6/1/2009		
	HEIZER 115/69KV TRANSFORMER CKT 1	6/1/2016	6/1/2016		
	HEIZER 115/69KV TRANSFORMER CKT 2	6/1/2016	6/1/2016		
	KNOLL - VINE STREET 115KV CKT 1	6/1/2016	6/1/2016		
	Mooreland - Potter 345 kV SPS	6/1/2015	6/1/2015		
	Mooreland - Potter 345 kV WFEC	6/1/2015	6/1/2015		
	Mooreland 345/138 kV Transformer	6/1/2015	6/1/2015		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 2	6/1/2015	6/1/2015		
	Sayre interconnect	6/1/2016	6/1/2016		
	Spearville - Mooreland 345 kV SUNC	6/1/2015	6/1/2015		
	Spearville - Mooreland 345 kV WFEC	6/1/2015	6/1/2015		
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2009	6/1/2009		
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

					Earliest Service	Redispatch
	Reservation	Upgrade Name	COD	EOC	Start Date	Available
[	1162102	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		

Construction Pending - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1162102	HEIZER TO KNOLL 230KV	6/1/2007	10/1/2007		
	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2011		
	WICHITA - RENO 345KV	6/1/2007	7/1/2009		

Potential reservation deferral and redispatch requirement on the following upgrades due to positive MW Impact on limitations that require upgrade. No cost assignment due to negative MW impact on defined upgrade.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1162102	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2 Displacement	6/1/2007	6/1/2011		
	Potter - Roosevelt 345KV Displacement	6/1/2007	6/1/2011		
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1 Displacement	6/1/2007	6/1/2011		

#### Study Number Customer MIDW

AG3-2006-121

				Requested	Requeste	d			Deferred Stop Date Without			Allocated E 8	ста	otal Revenue
Customer	Reservation	POR	POD	Amount	Start Date	9	Date	Redispatch	Redispatch	Allowable	Base Rate	Cost	Re	equirements
MIDW	1167662	WR	WR		35 2/1	/2007	2/1/2012	6/1/2010	6/1/2015	\$-	\$ -	\$ 8,0	54 \$	22,437
MIDW	1167664	WR	WR		10 2/1	/2007	2/1/2012	6/1/2010	6/1/2015	\$-	\$ -	\$ 2,3	03 \$	6,416
				•				•		\$ -	\$ -	\$ 10,3	57 \$	28,853

				Earliest Service	Redispatch	Allocat	ted E & C			Total	Revenue
Reservation	Upgrade Name	COD	EOC	Start Date	Available	Cost		Tot	al E & C Cost	Requi	irements
1167662	EXIDE JUNCTION - NORTH AMERICAN PHILIPS 115KV CKT 1	6/1/2007	6/1/2010			\$	1,111	\$	300,000	\$	3,161
	EXIDE JUNCTION - SUMMIT 115KV CKT 1	6/1/2007	6/1/2010			\$	6,943	\$	2,000,000	\$	19,276
					Total	\$	8,054.00	\$	2,300,000.00	\$	22,437.11
1167664	EXIDE JUNCTION - NORTH AMERICAN PHILIPS 115KV CKT 1	6/1/2007	6/1/2010			\$	318	\$	300,000	\$	905
	EXIDE JUNCTION - SUMMIT 115KV CKT 1	6/1/2007	6/1/2010			\$	1,985	\$	2,000,000	\$	5,511
					Total	\$	2,303	\$	2,300,000	S	6.416

Expansion Plan - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	6/1/2007	6/1/2009		Available
	CLAY CENTER - GREENLEAF 115KV CKT 1	6/1/2007	6/1/2009		
	Evans - Grant - Chisolm Rebuild and Conversion Project	6/1/2007	6/1/2009		
	GILL ENERGY CENTER EAST - GILLJCT269.0 69KV CKT 1	6/1/2007	6/1/2008		
	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1	6/1/2007	7/1/2007		
	HAYS PLANT - SOUTH HAYS 115KV CKT 1	6/1/2008	6/1/2009		
	HAYS PLANT - VINE STREET 115KV CKT 1	6/1/2008	6/1/2009		
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2009	6/1/2009		
1167664	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	6/1/2007	6/1/2009		
	CLAY CENTER - GREENLEAF 115KV CKT 1	6/1/2007	6/1/2009		
	Evans - Grant - Chisolm Rebuild and Conversion Project	6/1/2007	6/1/2009		
	GILL ENERGY CENTER EAST - GILLJCT269.0 69KV CKT 1	6/1/2007	6/1/2008	10/1/2007	
	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1	6/1/2007	7/1/2007		
	HAYS PLANT - SOUTH HAYS 115KV CKT 1	6/1/2008	6/1/2009		
	HAYS PLANT - VINE STREET 115KV CKT 1	6/1/2008	6/1/2009		
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2009	6/1/2009		

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

					Earliest Service	Redispatch
	Reservation	Upgrade Name	COD	EOC	Start Date	Available
[	1167662	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
[	1167664	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		

Construction Pending - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1167662	HEIZER TO KNOLL 230KV	6/1/2007	10/1/2007		
	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2011		
	WICHITA - RENO 345KV	6/1/2007	7/1/2009		
1167664	HEIZER TO KNOLL 230KV	6/1/2007	10/1/2007		
	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2011		
	WICHITA - RENO 345KV	6/1/2007	7/1/2009		

Potential reservation deferral and redispatch requirement on the following upgrades due to positive MW Impact on limitations that require upgrade. No cost assignment due to negative MW impact on defined upgrade.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1167662	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2 Displacement	6/1/2007	6/1/2011		
	Potter - Roosevelt 345KV Displacement	6/1/2007	6/1/2011		
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1 Displacement	6/1/2007	6/1/2011		
1167664	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2 Displacement	6/1/2007	6/1/2011		
	Potter - Roosevelt 345KV Displacement	6/1/2007	6/1/2011		
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1 Displacement	6/1/2007	6/1/2011		

# Customer Study Number

NIEC	AG3-2006-035

Customer	Reservation	POR	POD		Requested Start Date	Requested Stop		Plan Funding	Point-to-Point	Allocated E & C Cost	Total Revenue Requirements
NTEC	1161974	CSWS	CSWS	52	6/1/2011	6/1/2031		\$ 6,323,764	\$-	\$ 6,323,764	\$ 21,612,215
-								\$ 6.323.764	s -	\$ 6.323,764	\$ 21.612.215

				Earliest Service	Redispatch	Allocate	ed E & C			Total	Revenue
Reservation	Upgrade Name	COD	EOC	Start Date	Available	Cost		Tota	al E & C Cost	Requi	irements
1161974	DIANA - PERDUE 138KV CKT 1	6/1/2016	6/1/2016			\$	750,000	\$	750,000	\$	1,872,199
	HEMPSTEAD - NW TEXARKANA 345KV CKT 1	6/1/2011	6/1/2011			\$	4,932,986	\$	56,000,000	\$	17,265,476
	SOUTHWEST SHREVEPORT - SOUTHWEST SHREVEPORT TAP 138KV CKT 1	6/1/2009	6/1/2009			\$	451,771	\$	2,500,000	\$	1,816,485
	SUGAR HILL (SUGAR HL) 138/69/12.47KV TRANSFORMER CKT 1	6/1/2011	6/1/2011			\$	189,007	\$	2,500,000	\$	658,055
					Total	\$	6,323,764	\$	61,750,000	\$	21,612,215

Expansion Plan - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1161974	BEN WHEELER - BARTONS CHAPEL	6/1/2016	6/1/2016		
	BIG SANDY - PERDUE 69KV CKT 1	6/1/2016	6/1/2016		
	CARTHAGE REC - ROCK HILL 138KV CKT 1	6/1/2014	6/1/2014		

#### Customer Study Number OGE AG3-2006-034

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Date Without		Plan Funding		Allocated E & Cost	C Total Revenue Requirements
OGE	1161665	OKGE	SPA	20	2/1/200	7 2/1/2012	2 10/1/2007	10/1/2012	\$-	\$ 1,080,000	\$ 9,37	0 \$ 13,4
									\$-	\$ 1,080,000	\$ 9,37	0 \$ 13,4

				Earliest Service	Redispatch	Allocated E & C		Total Revenue
Reservation	Upgrade Name	COD	EOC	Start Date	Available	Cost	Total E & C Cost	Requirements
1161665	5 TRIBES - HANCOCK 161KV CKT 1	6/1/2007	6/1/2008	10/1/2007	Yes	\$ 803	\$ 100,000	\$-
	5 TRIBES - PECAN CREEK 161KV CKT 1 Displacement	6/1/2007	6/1/2008	10/1/2007	Yes	\$ 3,746	\$ 466,473	\$ 8,649
	JONES - JONESBORO 161KV CKT 1 SWPA	6/1/2007	6/1/2007			\$ 2,000		\$-
	MILLER - WHITE EAGLE 138KV CKT 1	6/1/2011	6/1/2011			\$ 2,821	\$ 300,000	\$ 4,810
					Total	\$ 9,370	\$ 868,473	\$ 13,458

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1161665	ARCADIA - REDBUD 345 KV CKT 1	6/1/2006	6/1/2006		
	ARCADIA - REDBUD 345 KV CKT 2	6/1/2006	6/1/2006		
	FPL SWITCH - MOORELAND 138KV CKT 1 OKGE	6/1/2006	4/1/2008		
	FPL SWITCH - MOORELAND 138KV CKT 1 WFEC	6/1/2006	4/1/2008		
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	5/1/2010	5/1/2010		
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	5/1/2010	5/1/2010		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		

Construction Pending - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1161665	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2011		
	PECAN CREEK (PECANCK1) 345/161/13.8KV TRANSFORMER CKT 1	6/1/2007	6/1/2008	10/1/2007	Yes
	RIVERSIDE - PECAN CREEK - MUSKOGEE 345 kV	6/1/2007	6/1/2008	10/1/2007	Yes

#### Third Party Limitations.

Reservation	Uoorade Name	COD		Earliest Service Start Date	Redispatch Available
	STRUMAN - HARISBURG TAP 161KV CKT 1	6/1/2008			/ trailable
	5TRUMAN - TRUMANN WEST AECC 161KV CKT 1	6/1/2010	6/1/2010		
	JONES - JONESBORO 161KV CKT 1 ENTR	6/1/2007	6/1/2007		
	JONESBORO - JONESBORO NORTH (AECC) 161KV CKT 1	6/1/2010	6/1/2010		
	JONESBORO NORTH (AECC) - PARAGOULD SOUTH (AECC) 161KV CKT 1	6/1/2010	6/1/2010		

# Customer Study Number

OGE	AG3-2006-049

Customer	Reservation	POR	POD	Requested Amount		Requested Stop Date	Deferred Start Date Without Redispatch	Plan Funding	Point-to-Point	Allocated E & C Cost	Total Revenue Requirements
OGE	1162077	OKGE	OKGE	38	6/1/2011	6/1/2031		\$ 33,668,638	\$-	\$ 33,702,789	\$ 139,642,556
						•		\$ 33,668,638	¢	\$ 33,702,789	\$ 139.642.556

				Earliest Service	Redispatch	Alloca	ated E & C			Tota	Revenue
Reservation	Upgrade Name	COD				Cost		Tota	al E & C Cost		uirements
1162077	5 TRIBES - HANCOCK 161KV CKT 1	6/1/2007	6/1/2008	10/1/2007		\$	34,151	\$	100,000	\$	-
	5 TRIBES - PECAN CREEK 161KV CKT 1 Displacement	6/1/2007	6/1/2008	10/1/2007		\$	159,308	\$	466,473	\$	928,226
	ARCADIA - SOONER 345kV CKT 1	6/1/2011	6/1/2011			\$	27,026,862	\$	65,000,000	\$	115,681,326
	ARKOMA - FT SMITHW 161KV CKT 1	6/1/2016	6/1/2016			\$	2,900,000	\$	2,900,000	\$	8,506,968
	MILLER - WHITE EAGLE 138KV CKT 1	6/1/2011	6/1/2011			\$	101,848	\$	300,000	\$	438,204
	ROSEHILL - SOONER 345KV CKT 1 OKGE Displacement	6/1/2011	6/1/2011			\$	2,200,688	\$	6,322,628	\$	9,494,994
	ROSEHILL - SOONER 345KV CKT 1 WERE Displacement	6/1/2011	6/1/2011			\$	1,279,932	\$	3,677,275	\$	4,592,839
					Total	S	33,702,789	\$	78,766,376	s	139.642.556

Expansion Plan - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
116207	COLONY - FT SMITH 161KV CKT 1	6/1/2011	6/1/2011		

Construction Pending - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
116207	PECAN CREEK (PECANCK1) 345/161/13.8KV TRANSFORMER CKT 1	6/1/2007	6/1/2008	10/1/2007	
	RIVERSIDE - PECAN CREEK - MUSKOGEE 345 kV	6/1/2007	6/1/2008	10/1/2007	

#### Customer Study Number OMPA

AG3-2006-028

Customer	Reservation	POR	POD	Requested Amount		Requested Stop Date	Deferred Start Date Without Redispatch	Plan Funding	Allocated E & C Cost	Total Revenue Requirements
OMPA	1159596	CSWS	CSWS	4	1 6/1/2011	6/1/2031		\$ 7,380,000	\$ - \$ 8,841,737	\$ 26,947,877
								\$ 7,380,000	\$ \$ 8,841,737	\$ 26,947,877

				Earliest Service	Redispatch	Allocate	ed E & C		Total	Revenue
Reservation	Upgrade Name	COD	EOC	Start Date	Available	Cost		Total E & C Cost	Requ	irements
1159596	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 AEPW	6/1/2009	6/1/2009			\$	618,659	\$ 9,000,000	\$	2,547,831
	HEMPSTEAD - NW TEXARKANA 345KV CKT 1	6/1/2011	6/1/2011			\$	3,770,359	\$ 56,000,000	\$	13,196,275
	Hugo - SunnySide 345kV OKGE	6/1/2011	6/1/2011			\$	63,652	\$ 750,000	\$	272,605
	Hugo - SunnySide 345kV WFEC	6/1/2011	6/1/2011			\$	4,243,497	\$ 50,000,000	\$	10,408,885
	MILLER - WHITE EAGLE 138KV CKT 1	6/1/2011	6/1/2011			\$	18,832	\$ 300,000	\$	81,025
	SUGAR HILL (SUGAR HL) 138/69/12.47KV TRANSFORMER CKT 1	6/1/2011	6/1/2011			\$	126,738	\$ 2,500,000	\$	441,257
					Total	\$	8,841,737	\$ 118,550,000	\$	26,947,877

#### Expansion Plan - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1159596	Mooreland - Potter 345 kV SPS	6/1/2015	6/1/2015		
	Mooreland - Potter 345 kV WFEC	6/1/2015	6/1/2015		
	Mooreland 345/138 kV Transformer	6/1/2015	6/1/2015		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 2	6/1/2015	6/1/2015		
	SNYDER - SNYDER INTERCONNECTION	6/1/2016	6/1/2016		
	Spearville - Mooreland 345 kV SUNC	6/1/2015	6/1/2015		
	Spearville - Mooreland 345 kV WFEC	6/1/2015	6/1/2015		
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		

#### Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1159596	ARCADIA - REDBUD 345 KV CKT 1	6/1/2006	6/1/2006		
	ARCADIA - REDBUD 345 KV CKT 2	6/1/2006	6/1/2006		

#### Third Party Limitations.

Reservation	Upgrade Name	COD		Earliest Service Start Date	Redispatch Available
1159596	ARKANSAS NUCLEAR ONE 161 - RUSSELLVILLE NORTH 161KV CKT 1	6/1/2010	6/1/2010		
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 ENTR	6/1/2009	6/1/2009		
	RUSSELLVILLE EAST - RUSSELLVILLE NORTH 161KV CKT 1	6/1/2011	6/1/2011		
	RUSSELLVILLE EAST - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2011	6/1/2011		

#### Customer Study Number

OMPA AG3-2006-050

Customer	Reservation	POR	POD	Requested Amount		Requested Stop	Date Without	Plan Funding	Point-to-Point	Allocated E & C Cost	Total Revenue Requirements
OMPA	1162095	OKGE	OKGE	73	6/1/2011	6/1/2031		\$ 5,079,387	\$-	\$ 5,079,387	\$ 21,611,389
							•	\$ 5,079,387	\$-	\$ 5,079,387	\$ 21,611,389

				Earliest Service	Redispatch	Allocate	ed E & C		Total F	Revenue
Reservation	Upgrade Name	COD			Available	Cost		Total E & C Cost		rements
1162095	ARCADIA - SOONER 345kV CKT 1	6/1/2011	6/1/2011			\$	4,467,677	\$ 65,000,000	\$	19,122,708
	MILLER - WHITE EAGLE 138KV CKT 1	6/1/2011	6/1/2011			\$	50,115	\$ 300,000	\$	215,621
	ROSEHILL - SOONER 345KV CKT 1 OKGE Displacement	6/1/2011	6/1/2011			\$	355,079	\$ 6,322,628	\$	1,532,009
	ROSEHILL - SOONER 345KV CKT 1 WERE Displacement	6/1/2011	6/1/2011			\$	206,516	\$ 3,677,275	\$	741,051
					Total	\$	5,079,387	\$ 75,299,903	\$	21,611,389

Expansion Plan - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.											
Reservation	Upgrade Name	COD		Earliest Service Start Date	Redispatch Available						
	Mooreland - Potter 345 kV SPS	6/1/2015			Available						
	Mooreland - Potter 345 kV WFEC	6/1/2015	6/1/2015								
	Mooreland 345/138 kV Transformer	6/1/2015	6/1/2015								
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 2	6/1/2015	6/1/2015								
	SNYDER - SNYDER INTERCONNECTION	6/1/2016	6/1/2016								
	Spearville - Mooreland 345 kV SUNC	6/1/2015	6/1/2015								
	Spearville - Mooreland 345 kV WFEC	6/1/2015	6/1/2015								
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	6/1/2015	6/1/2015								

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#### Customer Study Number SEPC AG3-2006-113

							Deferred Start	Deferred Stop Date	Potential Base			
				Requested	Requested	Requested Stop	Date Without	Without	Plan Funding	Point-to-Point	Allocated E & C	Total Revenue
Customer	Reservation	POR	POD	Amount	Start Date	Date	Redispatch	Redispatch	Allowable	Base Rate	Cost	Requirements
SEPC	1162670	WR	SECI	51	12/1/2007	12/1/2027	6/1/2010	6/1/2030	\$ -	\$-	\$ 273,229	\$ 1,224,586
									\$-	\$-	\$ 273,229	\$ 1,224,586

Reservation	Upgrade Name	COD		Earliest Service Start Date	Redispatch Available	Allocated E Cost		Total E & C Cost	Total Revenue Requirements
1162670	EXIDE JUNCTION - NORTH AMERICAN PHILIPS 115KV CKT 1	6/1/2007	6/1/2010			\$	28,184	\$ 300,000	\$ 127,502
	EXIDE JUNCTION - SUMMIT 115KV CKT 1	6/1/2007	6/1/2010			\$	176,053	\$ 2,000,000	\$ 777,089
	NORTHVIEW - SUMMIT 115KV CKT 1	6/1/2007	6/1/2010			\$	68,992	\$ 610,000	\$ 319,995
					Total	\$	273,229	\$ 2,910,000	\$ 1,224,586

Expansion Plan - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1162670	HAYS PLANT - SOUTH HAYS 115KV CKT 1	6/1/2008	6/1/2009		
	HAYS PLANT - VINE STREET 115KV CKT 1	6/1/2008	6/1/2009		
	KNOLL - VINE STREET 115KV CKT 1	6/1/2016	6/1/2016		
	Mooreland - Potter 345 kV SPS	6/1/2015	6/1/2015		
	Mooreland - Potter 345 kV WFEC	6/1/2015	6/1/2015		
	Mooreland 345/138 kV Transformer	6/1/2015	6/1/2015		
	PLAINVILLE CAPACITOR	6/1/2009	6/1/2009		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 2	6/1/2015	6/1/2015		
	Sayre interconnect	6/1/2016	6/1/2016		
	Spearville - Mooreland 345 kV SUNC	6/1/2015	6/1/2015		
	Spearville - Mooreland 345 kV WFEC	6/1/2015	6/1/2015		
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		

Construction Pending - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1162670	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2011		
	PHILLIPSBURG - RHOADES	6/1/2008	12/1/2008	10/1/2008	
	WICHITA - RENO 345KV	6/1/2007	7/1/2009		

Potential reservation deferral and redispatch requirement on the following upgrades due to positive MW Impact on limitations that require upgrade. No cost assignment due to negative MW impact on defined upgrade.

					Earliest Service	Redispatch
R	teservation	Upgrade Name	COD	EOC	Start Date	Available
	1162670	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2 Displacement	6/1/2007	6/1/2011		
		Potter - Roosevelt 345KV Displacement	6/1/2007	6/1/2011		
		ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1 Displacement	6/1/2007	6/1/2011		

Customer Study Number SPSM AG3-2006-115

0	Berneular		BOD				Requested Stop	Date Without		Plan Funding		Allocated E & C	
Customer	Reservation				Amount			Redispatch				Cost	Requirements
SPSM		1162675	OKGE	SPS	100	2/1/2007	2/1/2008	6/1/2011	6/1/2012	\$-	\$ 1,741,200	\$-	\$
											\$ 1,741,200		

				Earliest Service	Redispatch	Allocated E & C		Total Revenue
Reservation	Upgrade Name	COD	EOC	Start Date	Available	Cost	Total E & C Cost	Requirements
1162675	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2 Displacement	6/1/2007	6/1/2011		Yes	\$-	\$-	\$-
	Potter - Roosevelt 345KV Displacement	6/1/2007	6/1/2011		Yes	\$-	\$-	\$-
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1 Displacement	6/1/2007	6/1/2011		Yes	\$-	\$ 3,200,000	\$-
	SPS MUST RUN GENERATION #1	10/1/2007	10/1/2007			\$-	\$-	\$-
	SPS MUST RUN GENERATION #2	6/1/2007	6/1/2007			\$-	\$-	\$-
	SPS MUST RUN GENERATION #3	12/1/2007	12/1/2007			\$-	\$-	\$-
	SPS MUST RUN GENERATION #4	10/1/2007	10/1/2007			\$-	\$-	\$-
					Total	\$-	\$ 3,200,000	ş -

Expansion Plan - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
11626	5 CARLSBAD PLANT 115/69KV TRANSFORMERS	6/1/2007	6/1/2008	10/1/2007	Yes
	Mustang-San Andr-Amerada Hess 115KV	6/1/2007	6/1/2009		Yes
	Seven Rivers to Pecos to Potash Junction 230kV	6/1/2007	6/1/2008	10/1/2007	Yes
	YOAKUM COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2007	6/1/2009	10/1/2008	Yes

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1162675	ARCADIA - REDBUD 345 KV CKT 1	6/1/2006	6/1/2006		
	ARCADIA - REDBUD 345 KV CKT 2	6/1/2006	6/1/2006		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		

Construction Pending - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD			Available
1162675	HOBBS 115 KV Lines	10/1/2007	6/1/2008	4/1/2008	Yes
	HOBBS 230/115KV TRANSFORMER CKT 2	10/1/2007	6/1/2008	4/1/2008	Yes
	HOBBS Substation and Lines	10/1/2007	6/1/2008	4/1/2008	Yes
	MUSTANG STATION 230/115KV TRANSFORMER CKT 1	6/1/2007	6/1/2007		
	TUCO INTERCHANGE 230KV #1	6/1/2007	6/1/2007		
	TUCO INTERCHANGE 230KV #2	6/1/2008	6/1/2008		
	WICHITA - RENO 345KV	6/1/2007	7/1/2009		Yes

\*The existing firm reservations offered for curtailment provided no interim mitigation in the limitations requiring the upgrades for the requested service. \*\*Acceptance of Transmission Service contingent on SPPSPS Flowgate development completeion currently be reviewed by SPS Transmission.

# Customer Study Number

UCU	AG3-2006-052D

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Date Without			Point-to-Point		Total Revenue Requirements
UCU	1162075	WR	MPS	51	1/1/2008	1/1/2028	6/1/2010	6/1/2030	\$-	\$ 19,718,640	\$ 387,532	\$ 1,287,418
								•	¢	\$ 19718640	\$ 387 532	\$ 1 287 418

				Earliest Service	Redispatch	Allocated E & C		Total Revenue
Reservation	Upgrade Name	COD	EOC	Start Date	Available	Cost	Total E & C Cost	Requirements
1162075	EXIDE JUNCTION - NORTH AMERICAN PHILIPS 115KV CKT 1	6/1/2007	6/1/2010			\$ 27,468	\$ 300,000	\$ 124,263
	EXIDE JUNCTION - SUMMIT 115KV CKT 1	6/1/2007	6/1/2010			\$ 171,583	\$ 2,000,000	\$ 757,359
	NORTHVIEW - SUMMIT 115KV CKT 1	6/1/2007	6/1/2010			\$ 87,491	\$ 610,000	\$ 405,796
	PLATTE CITY - POPE 161 161KV CKT 1	12/1/2011	12/1/2011			\$ 50,496	\$ 100,000	\$-
	POPE 161 - SMITHVILLE 161KV CKT 1	12/1/2011	12/1/2011			\$ 50,494	\$ 100,000	\$-
					Total	\$ 387,532	\$ 3,110,000	\$ 1,287,418

Expansion Plan - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

				Earliest Service	
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1162075	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2007	6/1/2009	10/1/2008	
	BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1	6/1/2007	6/1/2008		
	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1	6/1/2008	10/1/2008		
	HAYS PLANT - SOUTH HAYS 115KV CKT 1	6/1/2008	6/1/2009		
	HAYS PLANT - VINE STREET 115KV CKT 1	6/1/2008	6/1/2009		
	INDUSTRIAL PARK - LAKE ROAD 161KV CKT 1	6/1/2008	6/1/2008		
	KNOLL - VINE STREET 115KV CKT 1	6/1/2016	6/1/2016		
	LAKE ROAD 161/34.5KV TRANSFORMER	12/1/2007	6/1/2009		
	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2007	6/1/2007		

Credits may be	Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.										
				Earliest Service	Redispatch						
Reservation	Upgrade Name	COD	EOC	Start Date	Available						
1162075	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006								

Construction Pending - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1162075	CLINTON - CLINTON PLANT 69KV CKT 1	6/1/2011	6/1/2010		
	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2011		
	PHILLIPSBURG - RHOADES	6/1/2008	12/1/2008	10/1/2008	
	WICHITA - RENO 345KV	6/1/2007	7/1/2009		

# Customer Study Number

UCU	AG3-2006-088D

				Requested	Requested			Deferred Stop Date Without			Allocated E & C	Total Revenue
Customer	Reservation	POR	POD	Amount	Start Date	Date	Redispatch	Redispatch	Allowable	Base Rate	Cost	Requirements
UCU	1162678	WR	MPS	25	1/1/2008	1/1/2028	6/1/2010	6/1/2030	\$-	\$ 9,666,000	\$ 189,965	
UCU	1162681	WR	MPS	25	1/1/2008	1/1/2028	6/1/2010	6/1/2030	\$-	\$ 9,666,000	\$ 189,965	\$ 631,079
									\$-	\$ 19,332,000	\$ 379,930	\$ 1,262,158

				Earliest Service	Redispatch	Allocated E	& C		Total Revenue
	Upgrade Name	COD	EOC	Start Date	Available	Cost		Total E & C Cost	Requirements
1162678	EXIDE JUNCTION - NORTH AMERICAN PHILIPS 115KV CKT 1	6/1/2007	6/1/2010			\$	13,465	\$ 300,000	\$ 60,915
	EXIDE JUNCTION - SUMMIT 115KV CKT 1	6/1/2007	6/1/2010			\$	84,108	\$ 2,000,000	
	NORTHVIEW - SUMMIT 115KV CKT 1	6/1/2007	6/1/2010			\$	42,887	\$ 610,000	\$ 198,916
	PLATTE CITY - POPE 161 161KV CKT 1	12/1/2011	12/1/2011			\$	24,752	\$ 100,000	\$ -
	POPE 161 - SMITHVILLE 161KV CKT 1	12/1/2011	12/1/2011			\$	24,753	\$ 100,000	\$ -
					Total	\$	189,965	\$ 3,110,000	\$ 631,079
1162681	EXIDE JUNCTION - NORTH AMERICAN PHILIPS 115KV CKT 1	6/1/2007	6/1/2010			\$	13,465	\$ 300,000	\$ 60,915
	EXIDE JUNCTION - SUMMIT 115KV CKT 1	6/1/2007	6/1/2010			\$	84,108	\$ 2,000,000	\$ 371,249
	NORTHVIEW - SUMMIT 115KV CKT 1	6/1/2007	6/1/2010			\$	42,887	\$ 610,000	\$ 198,916
	PLATTE CITY - POPE 161 161KV CKT 1	12/1/2011	12/1/2011			\$	24,752	\$ 100,000	\$ -
	POPE 161 - SMITHVILLE 161KV CKT 1	12/1/2011	12/1/2011			\$	24,753	\$ 100,000	\$-
					Total	\$	189,965	\$ 3,110,000	\$ 631,079

Expansion Plan - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1162678	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2007	6/1/2009	10/1/2008	
	BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1	6/1/2007	6/1/2008		
	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1	6/1/2008	10/1/2008		
	HAYS PLANT - SOUTH HAYS 115KV CKT 1	6/1/2008	6/1/2009		
	HAYS PLANT - VINE STREET 115KV CKT 1	6/1/2008	6/1/2009		
	INDUSTRIAL PARK - LAKE ROAD 161KV CKT 1	6/1/2008	6/1/2008		
	KNOLL - VINE STREET 115KV CKT 1	6/1/2016	6/1/2016		
	LAKE ROAD 161/34.5KV TRANSFORMER	12/1/2007	6/1/2009		
	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2007	6/1/2007		
1162681	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2007	6/1/2009	10/1/2008	
	BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1	6/1/2007	6/1/2008		
	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1	6/1/2008	10/1/2008		
	HAYS PLANT - SOUTH HAYS 115KV CKT 1	6/1/2008	6/1/2009		
	HAYS PLANT - VINE STREET 115KV CKT 1	6/1/2008	6/1/2009		
	INDUSTRIAL PARK - LAKE ROAD 161KV CKT 1	6/1/2008	6/1/2008		
	KNOLL - VINE STREET 115KV CKT 1	6/1/2016	6/1/2016		
	LAKE ROAD 161/34.5KV TRANSFORMER	12/1/2007	6/1/2009		
-	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2007	6/1/2007		

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1162678	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		ĺ
1162681	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		

Construction Pending - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1162678	CLINTON - CLINTON PLANT 69KV CKT 1	6/1/2011	6/1/2010		
	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2011		
	PHILLIPSBURG - RHOADES	6/1/2008	12/1/2008	10/1/2008	
	WICHITA - RENO 345KV	6/1/2007	7/1/2009		
1162681	CLINTON - CLINTON PLANT 69KV CKT 1	6/1/2011	6/1/2010		
	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2011		
	PHILLIPSBURG - RHOADES	6/1/2008	12/1/2008	10/1/2008	
	WICHITA - RENO 345KV	6/1/2007	7/1/2009		

#### Customer Study Number WRGS

AG3-2006-024D

Customer	Reservation	POR	POD		Requested Start Date	Requested Stop	Deferred Start Date Without Redispatch		Plan Funding	Point-to-Point		Total Revenue Requirements
WRGS	1161506	WR	WR	380	5/1/2008	5/1/2014	6/1/2010	6/1/2016	\$ 1,107,208	\$-	\$ 1,107,208	\$ 2,599,976
									\$ 1,107,208	\$-	\$ 1,107,208	\$ 2,599,976

				Earliest Service	Redispatch	Allocated E	&C		Total Revenue
Reservation	Upgrade Name	COD	EOC	Start Date	Available	Cost		Total E & C Cost	Requirements
	BOEING - STEARMAN 138KV CKT 1	6/1/2011	6/1/2011			\$	87,800	\$ 300,000	\$ 122,132
	EXIDE JUNCTION - NORTH AMERICAN PHILIPS 115KV CKT 1	6/1/2007	6/1/2010		Yes	\$	69,425	\$ 300,000	\$ 175,665
	EXIDE JUNCTION - SUMMIT 115KV CKT 1	6/1/2007	6/1/2010		Yes	\$	476,600	\$ 2,000,000	\$ 1,176,619
	NORTHVIEW - SUMMIT 115KV CKT 1	6/1/2007	6/1/2010		Yes	\$	116,124	\$ 610,000	\$ 301,245
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER Displacement	6/1/2007	6/1/2011		Yes	\$	357,259	\$ 895,333	\$ 824,315
		•			Total	1	,107,208	4,105,333	2,599,976

Expansion Plan - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1161506	ALTAMONT 138KV	6/1/2011	6/1/2011		
	DEARING (DEARIN1X) 138/69/13.2KV TRANSFORMER CKT 1	12/1/2011	12/1/2011		
	Evans - Grant - Chisolm Rebuild and Conversion Project	6/1/2007	6/1/2009		Yes
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2009	6/1/2009		

Construction Pending - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1161506	WICHITA - RENO 345KV	6/1/2007	7/1/2009		Yes

#### Study Number Customer WRGS AG3-2006-025

Customer	Reservation	POR	POD	Requested Amount		Requested Stop Date	Deferred Start Date Without Redispatch	Plan Funding		Allocated E & C	otal Revenue Requirements
WRGS	1140120	WR	WR	36	0 5/1/2009	5/1/2015		\$-	\$ -	\$ 725,752	\$ 1,847,670
								¢	¢	\$ 725,752	\$ 1,847,670

				Earliest Service	Redispatch	Allocated	dE&C			Total Revenue
Reservation	Upgrade Name	COD	EOC	Start Date	Available	Cost		Total E & C 0	Cost	Requirements
1140120	BOEING - STEARMAN 138KV CKT 1	6/1/2011	6/1/2011			\$	84,968	\$ 30	0,000	
	EXIDE JUNCTION - NORTH AMERICAN PHILIPS 115KV CKT 1	6/1/2007	6/1/2010			\$	67,185	\$ 30	0,000	\$ 182,789
	EXIDE JUNCTION - SUMMIT 115KV CKT 1	6/1/2007	6/1/2010			\$	461,224	\$ 2,00	0,000	\$ 1,224,339
	NORTHVIEW - SUMMIT 115KV CKT 1	6/1/2007	6/1/2010			\$	112,375	\$ 61	0,000	\$ 313,455
					Total	\$	725,752	\$ 3,21	0,000	\$ 1,847,670

Expansion Plan - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

					1
				Earliest Service	Redispatch
Reservation	Upgrade Name	COD	EOC	Start Date	Available
1140120	ALTAMONT 138KV	6/1/2011	6/1/2011		ĺ
	DEARING (DEARIN1X) 138/69/13.2KV TRANSFORMER CKT 1	12/1/2011	12/1/2011		
	Evans - Grant - Chisolm Rebuild and Conversion Project	6/1/2007	6/1/2009		
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2009	6/1/2009		

#### Customer WRGS Study Number AG3-2006-036D

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Date Without			Point-to-Point	Allocated E & C Cost	Total Revenue Requirements
WRGS	1161997	MPS	WR	300	6/1/2007	6/1/2014	6/1/2010	6/1/2017	\$ 1,159,397	\$-	\$ 1,159,397	\$ 2,587,345
									\$ 1,159,397	¢	\$ 1,159,397	\$ 2,587,345

				Earliest Service		Allocate			Total Revenu	
Reservation	Upgrade Name	COD	EOC	Start Date	Available	Cost		Total E & C Cost	Requirement	
	BOEING - STEARMAN 138KV CKT 1	6/1/2011	6/1/2011			\$	127,231	\$ 300,000	\$ 1	171,226
	EXIDE JUNCTION - NORTH AMERICAN PHILIPS 115KV CKT 1	6/1/2007	6/1/2010		Yes	\$	60,417	\$ 300,000	\$ 1	147,900
	EXIDE JUNCTION - SUMMIT 115KV CKT 1	6/1/2007	6/1/2010		Yes	\$	418,947	\$ 2,000,000	\$ 1,0	000,649
	NORTHVIEW - SUMMIT 115KV CKT 1	6/1/2007	6/1/2010		Yes	\$	120,906	\$ 610,000	\$ 3	303,450
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER Displacement	6/1/2007	6/1/2009	10/1/2008	Yes	\$	431,896	\$ 895,333	\$ 9	964,119
					Total	\$	1,159,397	\$ 4,105,333	\$ 2,5	587,345

Expansion Plan - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

Reservation	Upgrade Name	COD		Earliest Service Start Date	Redispatch Available
1161997	ALTAMONT 138KV	6/1/2011	6/1/2011		
	DEARING (DEARIN1X) 138/69/13.2KV TRANSFORMER CKT 1	12/1/2011	12/1/2011		
	Evans - Grant - Chisolm Rebuild and Conversion Project	6/1/2007	6/1/2009		Yes
	GILL ENERGY CENTER EAST - INTERSTATE 138KV CKT 1	6/1/2016	6/1/2016		
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2009	6/1/2009		

Transmission Owner	Upgrade	Solution	Earliest Data Upgrade Required (COD)	Estimated Date of Upgrade Completion	Estimated Engineering & Construction Cost
011101	R	Rebuild 3.24 miles of 1272 AAC with 2156 ACSR. Replace 3 switches		(200)	Construction Cost
		reaker jumpers, and reset CTs @ Arsenal Hill. Replace 2 switches			
AEPW		ind jumpers @ Fort Humbug	6/1/2011		
AEPW	ARSENAL HILL - MCWILLIE STREET 138KV CKT 1 R	Replace Arsenal Hill switches and jumper	6/1/2011	1 6/1/2011	\$ 100,000
		Rebuild 2.55 miles of 666 ACSR with 1272 ACSF Replace auto & 69 kV breaker and switche	6/1/2011		
		Replace auto & 69 kV breaker and switche Replace auto & 69 kV breaker and switche	6/1/2011		
		Rebuild 17.96 miles of 250 Copperveld with 795 ACSF	6/1/2009		
	R	Replace Breakers 9310 & 10080 & five switches @ Perdue. Replace	0/1/2000	0/1/2000	• 0,000,000
AEPW		witch 12798 @ Diana	6/1/2016	6/1/2016	\$ 750,000
		Replace Elm Springs switch. Rebuild 5.17 miles of line	6/1/2011		
		Replace Dyess Breaker, Switches, & wavetra	6/1/2013		
AEPW	ELM SPRINGS REC - TONTITOWN 161KV CKT 1 re	eplace terminal equipmen	6/1/2013	6/1/2013	\$ 500,000
AEPW	HEMPSTEAD - NW TEXARKANA 345KV CKT 1 34	Suild 33 miles of 2-795MCM ACSR from Turk NW Texarkana, Add 45kV terminal at NW Texarkana, Add 345kV terminal at Turk Rebuild 5.92 miles of 266 ACSR with 795 ACSR. Replace switches	6/1/2011	6/1/2011	\$ 56,000,000
AEPW		umpers, and reset CTs & relays @ Texarkana Plant	6/1/2011	6/1/2011	\$ 4,000,000
		Rebuild 2.29 miles of 2-397.5 ACSR with 1590 ACSR	6/1/2009		
		Jsing IEEE Guide for Loading of Mineral-Oil Immersed Powe	0/1/2000	0/1/2000	2,000,000
		ransformers (C57.91-2000) Re-rate the autos. Replace .two 138 kV			
AEPW	SOUTHWEST SHREVEPORT (SW SHV 1) 345/138/13.8KV TRANSFORMER CKT 1 Expedite br	reakers and five 138 kV switches. Reset relays and CTs	6/1/2008	6/1/2009	\$ 1,500,000
AEPW	Т	Jsing IEEE Guide for Loading of Mineral-Oil Immersed Powe ransformers (C57.91-2000) Re-rate the autos. Replace .two 138 kV reakers and five 138 kV switches. Reset relays and CTs	6/1/2008	6/1/2009	e 4 500 000
		Replace auto & 69 kV breaker and switches or Add 2nd Aut	6/1/2008		
GRDA		Add 3rd 161/69 KV Transformer	6/1/201	6/1/2009	\$ 2,300,000
ONDA		Reconductor 4 miles with 1192.5 ACSS, 558 normal/emergency rating		0/1/2000	2,000,000
KACP	COLLEGE - CRAIG 161KV CKT 1 Expedite ar	ind upgrade breaker.	6/1/2011	6/1/2011	\$ 700,000
MIPU		Replace wavetrap at Platte cit	12/1/2011		
MIPU		Replace wavetrap	12/1/2011		
		Replace 800A Wave Trap, increase Relay CTR to 1200-54	6/1/2007		
OKGE		eplace 636AS33 conductor with 795AS3. Build 65 miles of 345kV line from Sooner to Arcadia, Add Termina	6/1/2007	7 6/1/2008	\$ 466,473
OKGE	ARCADIA - SOONER 345kV CKT 1 ed	quipment at each end splace 1200A terminal equipment at Arkoma to 2000A and rebuil	6/1/2011	6/1/2011	\$ 65,000,000
OKGE		.47 miles of line to 1590AS52.	6/1/2016	6/1/2016	\$ 2,900,000
OKGE		Replace 800A trap at Cedar Lan	6/1/2011	6/1/2011	
	R	Reconductor 1.27 miles of line to 1590AS52. WFEC will have to			
OKGE	FRANKLIN SW - MIDWEST TAP 138KV CKT 1 OKGE Displacement pr	rovide upgrade solution also for their Franklin (WFEC).	6/1/2014		
		nstall breaker, switches, and relay	6/1/2011		
		Replace line relay at White Eagle & Cont. Empir	6/1/2011		
		Jpgrade Roosevelt to Curry 115 kV circuit w/795 ACSI	6/1/2007		
		lew 345 kV circuit from Potter - Roosevelt 2-795 ACSR & 345/230 kV			*
SPS		60 MVA transformer	6/1/2007	6/1/2011	\$-
SPS	SI	Add 2nd transformer 230/115 kV 252 MV/ SPS Voltage Instability for Tolk to Eddy 345 kV outage due to	6/1/2007	7 6/1/2011	\$ 3,200,000
		Scheduled Cunningham Outage and either High Wind Generation			
SPS		evel or Import Level in 2007 Fall Peak MUST Run Cunningham and laddox Generation in order to not exceed approximately 225 MW	10/1/2007	7 10/1/2007	•
3F3	Si Si Li	SPS Voltage Instability for Tolk to Eddy 345 kV outage due t Scheduled Cunningham Outage and either High Wind Generation evel or Import Level in 2007 Summer Shoulder MUST Run	10/1/2007	10/1/2007	<b>ə</b> -
		Cunningham and Maddox Generation in order to not exceed			
SPS	SI S	pproximately 225 MW SPS Voltage Instability for Tolk to Eddy 345 kV outage due to Scheduled Cunningham Outage and either High Wind Generation evel or Import Level in 2007/08 Winter Peak MUST Run Conninghan	6/1/2007	7 6/1/2007	<u>s</u> .
SPS	SPS MUST RUN GENERATION #3 ar	nd Maddox Generation in order to not exceed approximately 225 MV		7 12/1/2007	s -
	V	Aust Run Requirement of Cunningham #2 and Maddox #1 to prever /oltage Collapse in 2007 Fall Peak for the DENVER CITY			
SPS WEPL		NTERCHANGE S - SHELC23 115KV CKT 1 line outage	10/1/2007		
	MEDICINE LODGE - SUN CITY 115KV CKT 1 Ri BOEING - STEARMAN 138KV CKT 1 U	Replace relaying from Sun City to Medicine Lodg Jprate 1.95 mile Boeing-Stearman 138 kV line	6/1/2007		
	R	Rebuild and reconductor 0.34 miles with 1192 ACSR and rebuilk ubstations.	6/1/201		
WERE	EXIDE JUNCTION - SUMMIT 115KV CKT 1	Rebuild 4.94-mile Summit-Exide Jct 115 kV, 1192.5 ACSF	6/1/2007		\$ 2,000,000
WERE	NORTHVIEW - SUMMIT 115KV CKT 1 U	Jprate line to 100oC and replace wave tra	6/1/2007		
		dd third 345-138 kV transformer at Rose Hi	6/1/2007	6/1/2009	\$ 895,333
	ROSEHILL - SOONER 345KV CKT 1 WERE Displacement N	lew 345 kV line from Oklahoma/Kansas Stateline to Rose H	6/1/2011		\$ 3,677,275
WFEC		Replace switches and wavetrap at Franklin Switch to 2000	6/1/2014		
NFEC	Hugo - SunnySide 345kV WFEC Ad	dd 345 line from Hugo to SunnySide	6/1/2011	6/1/2011	\$ 50,000,000

Construction Pending Projects - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

				Estimated Date
				of Upgrade
Transmission			Upgrade	Completion
Owner	Upgrade	Solution	Required (COD)	(EOC)
		Reconductor 666 ACSR (11.6 mies)and 1272 ACSR (.1 mile) to Drake		
		ACCC (2156 ACSR section 0.6 miles is not replaced) and remove the		
		series reactors at Chamber Springs on the Chamber Springs to		
AEPW	CHAMBER SPRINGS - TONTITOWN 161KV CKT 1	Tontitown 161 kV line	12/1/2007	6/1/2007
AEPW	Chamber Springs - Tontitown 345 kV	New 345 kV Line and Tontitown 345/161 kV Transforme	6/1/2008	6/1/2008
MIDW	HEIZER TO KNOLL 230KV	Convert 115 kV to 230kV	6/1/2007	10/1/2007
MIPU	CLINTON - CLINTON PLANT 69KV CKT 1	Upgrade line to 795 26/7 ACSR conducto	6/1/2011	6/1/2010
MIPU	IATAN - ST JOE 345KV CKT 1	Circuit Breaker	6/1/2011	6/1/2011
OKGE	PECAN CREEK (PECANCK1) 345/161/13.8KV TRANSFORMER CKT 1	Add a 345/161 kV 369MVA transforme	6/1/2007	6/1/2008
		Tap Riverside - Muskogee 345 kV line and add second Pecan Cree		
OKGE	RIVERSIDE - PECAN CREEK - MUSKOGEE 345 kV	345 kV source	6/1/2007	6/1/2008
		Reroute two lines into New Hobbs Substation (Cunningham to Mille		
SPS	HOBBS 115 KV Lines	115 kV line and Cunningham to Russell 115 kV line)	10/1/2007	6/1/2008
SPS	HOBBS 230/115KV TRANSFORMER CKT 2	Add 2nd 150 MVA transformer at Hobbs	10/1/2007	6/1/2008
		New 230/115 kV Substation on Lea Co to Midland 230 kV line wit		
SPS	HOBBS Substation and Lines	reroute of the Maddox to Lea Co 115 kV line	10/1/2007	6/1/2008
SPS	MUSTANG STATION 230/115KV TRANSFORMER CKT 1	Install 252 MVA Transformer	6/1/2007	6/1/2007
		SPS Plan to add a 50 MVAR Shunt Capacitor at Swisher 230 kV, a 5		
		MVAR Shunt Capacitor at Lubbock South 230 kV, and a 50 MVAR		
SPS	TUCO INTERCHANGE 230KV #1	Shunt Capacitor at Carlisle 230 kV	6/1/2007	6/1/2007
		SPS Plan to add 2 50 MVAR Shunt Capacitors at TUCO 230 kV and		1
SPS	TUCO INTERCHANGE 230KV #2	+150/-50 SVC at TUCO 230 kV	6/1/2008	
SUNC	PHILLIPSBURG - RHOADES	New line between Phillipsburg and Rhoade	6/1/2008	12/1/2008
WERE	WICHITA - RENO 345KV	Build 345kV from Wichita to Reno Cc	6/1/2007	7/1/2009

Estimated Date

			Earliest Data	Estimated Date of Upgrade	
ransmission Dwner L	Ingenda	Solution	Upgrade Required (COD)	Completion	
	Upgrade ARSENAL HILL - NORTH MARKET 69KV CKT 1	Rebuild 2.3 miles of 666 ACSR with 1272 ACSF	6/1/2011		
	AKSENAL HILL - NOKTH MARKET BERV CKTT	Rebuild 2.5 miles of ood Addit with 1272 Addit	6/1/2011	6/1/201	
		Rebuild 1.68 miles of 1024 ACAR with 2156 ACSR, Replace wavetrap			
	ALUMAX TAP - NORTHWEST TEXARKANA 138KV CKT 1	& jumpers with 2156 ACSR. Replace Switch 2285 @ Alumax Tap.	6/1/2008	6/1/2008	
	BIG SANDY - PERDUE 69KV CKT 1	Rebuild 5.4 miles of 477 ACSR with 1272 ACSR	6/1/2016		
AEPW E	BROKEN BOW - CRAIG JUNCTION 138KV CKT 1 AEPW	Rebuild 7.66 miles of 3/0 CW CU with 795 ACSF	12/1/2007	5/1/2008	
EPW 0	CARTHAGE REC - ROCK HILL 138KV CKT 1	Reconductor with 1272 ACSR, In Rock Hill sub Replace 755 ACSR and CT	6/1/2014	6/1/2014	
		Rebuild 1.09 miles of 2-397.5 ACSR with 2156 ACSR. Replace Flin			
	FLINT CREEK - GENTRY REC 161KV CKT 1	Creek wavetrap & jumpers	6/1/2013	6/1/2013	
AEPW L	LINWOOD - MCWILLIE STREET 138KV CKT 1	Rebuild 2.09 miles of 666 ACSR with 1272 ACSF	6/1/2007	4/1/2009	
		New 138 kV line from Port Robson - Red Point via McDade &			
	PORT ROBSON - REDPOINT 138kV Siloam Springs - South Fayetteville 161 kV	Haughton. Convert McDade & Haughton to 138 kV. Convert Existing 69 kV Line to 161 kV Operatio	6/1/2011	6/1/2011	
	WALDRON CAPACITOR	Install additional cap bank at Waldroi	6/1/2016		
	SNYDER - SNYDER INTERCONNECTION	New Tie line between AEPW's Snyder and WFEC's Snyde	6/1/2016		
	412SUB - KANSAS TAP 161KV CKT 1	Reconductor 9.7 miles with 1590MCM ACSR	6/1/2015		
	412SUB - KERR 161KV CKT 1	Reconductor 12.5 miles with 1590MCM ACSF	6/1/2015		
			0/1/2010	0/1/2010	
ACP A	AVONDALE - GLADSTONE 161KV CKT 1	Replace 800 amp wavetrap at Gladstone with 1200 amp wavetrap	6/1/2016	6/1/2016	
	HAYS PLANT - SOUTH HAYS 115KV CKT 1	Reconductor Line	6/1/2008		
	HAYS PLANT - VINE STREET 115KV CKT 1	Reconductor Line	6/1/2008	6/1/2009	
	HEIZER 115/69KV TRANSFORMER CKT 1	Replace auto	6/1/2016		
	HEIZER 115/69KV TRANSFORMER CKT 2	Replace auto	6/1/2016		
	KNOLL - VINE STREET 115KV CKT 1	Reconductor Line	6/1/2016		
AIPU E	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CKT 1	Reconductor	6/1/2007		
AIPU E	BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1	Reconductor 2.5 miles	6/1/2007		
AIPU C	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1 INDUSTRIAL PARK - LAKE ROAD 161KV CKT 1	Replace Wave Trap	6/1/2008 6/1/2008		
	LAKE ROAD 161/34.5KV TRANSFORMER	Structure replacement - Higher line ratin Transformer Upgrade	12/1/2008		
	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	Replace Wavetrap at Martin Cit	6/1/2007	6/1/2003	
		Ropido Haronap a marin on	0/1/2007	0/1/2001	
		Rebuild 0.06 miles of 397 ACSR with 1272 ACSR & reset relay @			
DKGE E	BONANZA - BONANZA TAP 161KV CKT 1	Bonanza or Bonanza T-Excelsior-Midland-N. Huntington 161 kV loop	6/1/2015	6/1/2015	
		Reconductor 2.2 miles to Drake ACCC/TW and change termina			
OKGE 0	COLONY - FT SMITH 161KV CKT 1	equipment at Ft. Smith & Colony to 2000A.	6/1/2011	6/1/2011	
	BEN WHEELER - BARTONS CHAPEL	Diana - Bartons Chapel & Ben Wheeler - Bartons Chape	6/1/2016		
SPS C	CARLSBAD PLANT 115/69KV TRANSFORMERS	Upgrade to 75 MVA transformers	6/1/2007	6/1/2008	
		New 345 kV line from Potter to Mooreland on wooden h-fram			
SPS N	Mooreland - Potter 345 kV SPS	structures.	6/1/2015	6/1/2015	
		Terminate V53 at Mustang instead of Denver City - 3 mi of new 115 k			
	Mustang-San Andr-Amerada Hess 115KV	circuit. Mustang-San Andr-Amerada Hess 115 kV ckt	6/1/2007		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 2 Seven Rivers to Pecos to Potash Junction 230kV	New 345/230 kV 560 MVA transforme Seven Rivers to Pecos to Potash Junction 230k'	6/1/2015		
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	Install 345/115 kV Transformer at Tucc	6/1/2007		
	YOAKUM COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	Upgrade Transformer 230/115 kV 252 MV/	6/1/2015		
	Spearville - Mooreland 345 kV SUNC	New 345 kV line from Spearville to Kansas/Oklahoma Statelir	6/1/2015		
SWPA E	BULL SHOALS - BULL SHOALS 161KV CKT 1	Replace buswork in Bull Shoals switchyard	6/1/2009	6/1/2009	
VEPL C	CLAY CENTER - GREENLEAF 115KV CKT 1	Building a new 115 kV tie with Westar from Greenleaf to Clay Center	6/1/2007	6/1/2009	
VEPL 0	GREENSBURG - JUDSON LARGE 115KV CKT 1	Replace relaying from Judson Large to Greensgir	6/1/2007	6/1/2007	
	PLAINVILLE CAPACITOR	20 Mvar cap bank at Plainvill	6/1/2009		
	ALTAMONT 138KV	Install 30 Mvar cap at Altamont 138 kV (bus # 57000	6/1/2011		
	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	Reset terminal equipmen	6/1/2007		
VERE D	DEARING (DEARIN1X) 138/69/13.2KV TRANSFORMER CKT 1	2nd Dearing 138-69 kV Transforme	12/1/2011	12/1/2011	
		Build Evans - Grant 138 kV line, Convert Grant - Chisolm 69 kV line to			
		138 kV, Install New Grant 138/69 kV XFMR. And Rebuild Grant - Gran			
	Evans - Grant - Chisolm Rebuild and Conversion Project	Jct. 69 kV line.	6/1/2007		
	GILL ENERGY CENTER EAST - GILLJCT269.0 69KV CKT 1 GILL ENERGY CENTER EAST - INTERSTATE 138KV CKT 1	Rebuild Gill-Gill Jct Replace wave trap	6/1/2007		
VERE C	GILLENERGT GENTER EAST - INTERSTATE 130RV GRT 1	Replace wave trat Replace bus, jumpers and disconnect switches at MacArthur 69 k\	6/1/2016	6/1/2016	
VERE	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1	Replace bus, jumpers and disconnect switches at MacArthur 69 KV substation to increase line capacity to conductor rating	6/1/2007	7/1/2007	
	STRANGER CREEK TRANSFORMER CKT 2	Install second Stranger Creek 345-115 transforme	6/1/2007		
	Mooreland - Potter 345 kV WFEC	345 kV line Termina	6/1/2009		
	Mooreland 345/138 kV Transformer	New Mooreland 345/138 kV Transforme	6/1/2015		
		Convert Sayre to Sweetwater>Durham>Brantley>MorewoodSw convert	0/1/2013	0/1/2013	
				1	
VFEC	Sayre interconnect	to 138 KV	6/1/2016	6/1/2016	

Expansion Plan Projects - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.

				Estimated Date
				of Upgrade
Transmission				Completion
Owner			Required (COD)	(EOC)
AEPW		Vallient 345 KV line termina	5/1/2010	5/1/2010
		KCPL Sponsored Project to Reconductor Line to be In-Service b		
KACP	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006	6/1/2006
		Sponsored Project to Uprate Terninal Equipmer	6/1/2006	
OKGE		Sponsored Project to Uprate Terninal Equipmer	6/1/2006	6/1/2006
		OGE would rebuild .18 miles of 267AS33 with 795AS33. This would		
		raise OGE's summer and winter Rate B to 287MVA. The limit will still		
OKGE	FPL SWITCH - MOORELAND 138KV CKT 1 OKGE	be at WFEC's Mooreland at 390A & 600A.	6/1/2006	4/1/2008
		Upgrade terminal equipment FPL Sw & Moorelan	6/1/2006	
WFEC	HUGO POWER PLANT - VALLIANT 345 KV WFEC	New 345/138 kv Auto, and 19 miles 345 K	5/1/2010	5/1/2010

# Previously Assigned Aggregate Study Upgrades requiring credits to Previous Aggregate Study Customers

# Table 5 - Third Party Facility Constraints

Transmission			Earliest Data Upgrade	Estimated Date of Upgrade	Estimated Engineering
Owner	UpgradeName	Solution			& Construction Cost
ENTR	3GRENWD 115 - TERREBONNE 115KV CKT 1	Indeterminate	06/01/07	06/01/07	Indeterminate
ENTR	4KSPRGS 138 - CHAMPAGNE 138KV CKT 1	Indeterminate	06/01/07		Indeterminate
ENTR	4KSPRGS 138 - LINE 642 TAP 138KV CKT 1	Indeterminate	06/01/07	06/01/07	Indeterminate
ENTR	5FLIPN - BULL SHOALS HES 161KV CKT 1	Indeterminate	06/01/11		Indeterminate
ENTR	5HILLTOP 161 - 5ST_JOE 161 161KV CKT 1	Indeterminate	06/01/11		Indeterminate
ENTR	5ST_JOE 161 - EVERTON 161KV CKT 1	Indeterminate	06/01/11	06/01/11	Indeterminate
ENTR	5TRUMAN - HARISBURG TAP 161KV CKT 1	Indeterminate	06/01/08	06/01/08	Indeterminate
ENTR	5TRUMAN - TRUMANN WEST AECC 161KV CKT 1	Indeterminate	06/01/10	06/01/10	Indeterminate
ENTR	8WELLS 500 - WEBRE 500KV CKT 1	Indeterminate	06/01/08	06/01/08	Indeterminate
ENTR	ADAMS CREEK - BOGALUSA 230KV CKT 2	Indeterminate	12/01/07	12/01/07	Indeterminate
ENTR	ARKANSAS NUCLEAR ONE 161 - RUSSELLVILLE NORTH 161KV CKT 1	Indeterminate	06/01/10	06/01/10	Indeterminate
ENTR	CLARENCE - MONTGOMERY 230KV CKT 1	Indeterminate	06/01/11	06/01/11	Indeterminate
ENTR	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 ENTR	Indeterminate	06/01/09	06/01/09	Indeterminate
ENTR	EVERTON - HARRISON-EAST 161KV CKT 1	Indeterminate	06/01/11	06/01/11	Indeterminate
ENTR	GIBSON - HUMPHREY 115KV CKT 1	Indeterminate	06/01/07	06/01/07	Indeterminate
ENTR	GIBSON - RAMOS 138KV CKT 1	Indeterminate	06/01/07	06/01/07	Indeterminate
ENTR	HARRISON-EAST - SUMMIT 161KV CKT 1	Indeterminate	06/01/16	06/01/16	Indeterminate
ENTR	JONES - JONESBORO 161KV CKT 1 ENTR	Indeterminate	06/01/07	06/01/07	Indeterminate
ENTR	JONESBORO - JONESBORO NORTH (AECC) 161KV CKT 1	Indeterminate	06/01/10	06/01/10	Indeterminate
ENTR	JONESBORO NORTH (AECC) - PARAGOULD SOUTH (AECC) 161KV CKT 1	Indeterminate	06/01/10	06/01/10	Indeterminate
ENTR	LINE 642 TAP - LIVONIA BULK 138KV CKT 1	Indeterminate	06/01/07	06/01/07	Indeterminate
ENTR	LIVONIA BULK - WILBERT 138KV CKT 1	Indeterminate	06/01/07	06/01/07	Indeterminate
ENTR	RUSSELLVILLE EAST - RUSSELLVILLE NORTH 161KV CKT 1	Indeterminate	06/01/11	06/01/11	Indeterminate
ENTR	RUSSELLVILLE EAST - RUSSELLVILLE SOUTH 161KV CKT 1	Indeterminate	06/01/11	06/01/11	Indeterminate
ENTR	WATERFORD - WILLOW GLEN 500KV CKT 1	Indeterminate	12/01/07	12/01/07	Indeterminate
LAGN	3GRENWD 115 - HUMPHREY 115KV CKT 1	Indeterminate	06/01/07	06/01/07	Indeterminate
		Change the ratio on the metering CTs to 1200/5 and			
SWPA	JONES - JONESBORO 161KV CKT 1 SWPA	adjust the meters	6/1/2007	2/1/2008	\$ 2,000

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# Table 6 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

	From->To CLARKSVILLE - MUSKOGEE 345KV CKT 1							
owgate:	PECCANCK12751537565522412307SP							
	6/1/07 - 10/1/07 2007 Summer Peak							
servation	Relief Amount	Aggregate Relief Amount						
1161666	2	.2 4.7						
1161667	2	.5 4.7		Sink				Aggregate
urce Control Area	Source	Maximum Increment(MW)	GSF	Control Area	Sink	Maximum Decrement(MW) GSF	Factor	Redispatch Amount (N
GE	'MUSKOGEE 161KV'	197	-0.31374	OKGE	'MUSKOGEE 345KV'	1516 0.131	-0.44483	3
GE GE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197	-0.31374 -0.31374		'ANADARKO 138KV' 'ARSENAL HILL 69KV'	266.7648 0.008 49.00964 0.010		
GE GE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197	-0.31374	SWPA	BROKEN BOW 138KV' COGENTRIX 345KV'	93.4 0.008	-0.3225	5
GE	'MUSKOGEE 161KV'	197	-0.31374 -0.31374	AEPW	'COMANCHE 138KV'	865 0.017- 160 0.012	-0.326	6
GE GE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197	-0.31374 -0.31374	AEPW	COMANCHE 69KV' DENISON 138KV'	63 0.011 59.40001 0.008		
GE	'MUSKOGEE 161KV'	197	-0.31374	AEPW	'EASTMAN 138KV'	155 0.012	-0.32579	9
GE GE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197	-0.31374 -0.31374		'HUGO 138KV' 'KNOXLEE 138KV'	450 0.013 284 0.011		
GE	'MUSKOGEE 161KV'	197	-0.31374	AEPW	'LEBROCK 345KV'	365 0.012	-0.32578	8
GE GE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197	-0.31374 -0.31374		'LIEBERMAN 138KV' 'MCCLAIN 138KV'	159 0.011 478 0.007		
GE	'MUSKOGEE 161KV'	197 197	-0.31374	AEPW	'NARROWS 69KV'	22 0.012	-0.32578	8
GE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197	-0.31374 -0.31374		'ONE OAK 345KV' 'PIRKEY GENERATION 138KV'	336 0.007 475 0.0		4
GE	MUSKOGEE 161KV	197	-0.31374 -0.31374		'REDBUD 345KV' 'SEMINOLE 138KV'	250 0.009 483.0885 0.011		
GE GE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197	-0.31374	OKGE	SEMINOLE 345KV	483.0885 0.0114		
(GE (GE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197 197	-0.31374 -0.31374	AEPW	'SOUTHWESTERN STATION 138KV' 'WELSH 345KV'	410 0.009 990 0.013	-0.32306	6
GE	'MUSKOGEE 161KV'	197	-0.31374	AEPW	WILKES 138KV	443.0759 0.012	-0.32609	9
GE GE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197	-0.31374		WILKES 345KV ABILENE ENERGY CENTER 115KV	311 0.012 40 -0.004		
GE	'MUSKOGEE 161KV'	197	-0.31374	GRDA	BOOMER 69KV	24 -0.005	-0.30778	8
(GE (GE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197	-0.31374		'BPU - CITY OF MCPHERSON 115KV' 'BULL SHOALS 161KV'	100.6543 -0.003 278.7 -0.008		
GE	'MUSKOGEE 161KV'	197	-0.31374	WERE	'CHANUTE 69KV'	56.723 -0.009	-0.30439	9
(GE (GE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197	-0.31374 -0.31374		CITY OF AUGUSTA 69KV' CITY OF BURLINGTON 69KV'	24 -0.003 34.753 -0.004		
GE	MUSKOGEE 161KV	197	-0.31374		'CITY OF ERIE 69KV'	23.27 -0.009		
GE GE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197	-0.31374 -0.31374		CITY OF IOLA 69KV' CITY OF MULVANE 69KV'	24.267 -0.009 8.288 -0.003		
GE GE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197	-0.31374 -0.31374	WERE	CITY OF WINFIELD 69KV' CLARENCE CANNON DAM 69KV'	27.962 -0.00		
GE	'MUSKOGEE 161KV'	197	-0.31374	WERE	'CLR_1 .575 34KV'	17.0034 -0.005	-0.30842	2
GE GE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197	-0.31374 -0.31374		COFFEY COUNTY NO. 2 SHARPE 69KV' 'EVANS ENERGY CENTER 138KV'	19.97 -0.004 340 -0.003		
GE	'MUSKOGEE 161KV'	197	-0.31374	WERE	'GILL ENERGY CENTER 138KV'	155 -0.003	-0.31035	5
GE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197	-0.31374 -0.31374		'GREERS FERRY 161KV' 'HORSESHOE LAKE 138KV'	93.4 -0.000 711.3384 0.002		
GE	'MUSKOGEE 161KV'	197	-0.31374	OKGE	'HORSESHOE LAKE 69KV'	16 -0.000	-0.31299	9
(GE (GE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197	-0.31374 -0.31374	WERE SWPA	'HUTCHINSON ENERGY CENTER 115KV' 'JAMES RIVER 161KV'	205 -0.003 159 -0.012		
GE	'MUSKOGEE 161KV'	197	-0.31374	SWPA	'JAMES RIVER 69KV'	233.8918 -0.012	-0.30099	
(GE (GE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197	-0.31374 -0.31374		'JEFFREY ENERGY CENTER 230KV' 'JEFFREY ENERGY CENTER 345KV'	470 -0.004 940 -0.004		
GE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197	-0.31374 -0.31374		'JONESBORO 161KV'	63 -0.001 7.2 -0.001		
(GE (GE	'MUSKOGEE 161KV'	197	-0.31374	SWPA	'KENNETT 69KV' 'KEYSTONE DAM 161KV'	150.2 -0.005	42 -0.30832	2
(GE (GE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197 197	-0.31374 -0.31374		'LAWRENCE ENERGY CENTER 230KV' 'MALDEN 69KV'	233.6253 -0.004 7 -0.001		
GE	'MUSKOGEE 161KV'	197	-0.31374	SWPA	'MCCARTNEY 161KV'	100 -0.012	-0.30164	4
GE GE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197	-0.31374 -0.31374		'MORLND 138KV' 'MUSTANG 138KV'	294.7338 0.005 365.5 0.006		
GE	'MUSKOGEE 161KV'	197	-0.31374	OKGE	'MUSTANG 69KV'	106 0.006	-0.32008	8
GE GE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197	-0.31374 -0.31374		'NORTHEASTERN STATION 345KV' 'OEC 345KV'	645 -0.005 419 0.002		
GE	'MUSKOGEE 161KV'	197	-0.31374	OKGE	'OMPA-KAW 69KV'	19.7 -0.000	16 -0.31358	
GE GE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197	-0.31374 -0.31374		'OMPA-PONCA CITY 69KV' 'PARAGOULD 69KV'	76.34311 -0.000		
GE	MUSKOGEE 161KV	197	-0.31374		POPLAR BLUFF 69KV	6 -0.002 722 0.00		
GE GE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197	-0.31374 -0.31374	SWPA	'RIVERSIDE STATION 138KV' 'SIKESTON 161KV'	235 -0.001	32 -0.31192	2
GE GE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197	-0.31374 -0.31374		'SMITH COGEN 138KV' 'SOONER 138KV'	120 0.006 505 0.001		
GE	'MUSKOGEE 161KV'	197	-0.31374	OKGE	'SOONER 345KV'	513 0.004	-0.31799	9
GE GE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197	-0.31374	WERE	'SOUTHWEST 161KV' 'TECUMSEH ENERGY CENTER 115KV'	222.3152 -0.013 108 -0.004		
GE	'MUSKOGEE 161KV'	197	-0.31374	SWPA	'TRUMAN 161KV'	102 -0.006	-0.3072	2
GE GE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197	-0.31374	WERE	'TULSA POWER STATION 138KV' 'WACO 138KV'	294 -0.000 17.96 -0.003	-0.31037	7
GE	'MUSKOGEE 161KV'	197	-0.31374	OKGE	'AES 161KV'	320 -0.028	-0.28568	8
GE GE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197	-0.31374	SWPA	'BEAVER 161KV' 'CARTHAGE 69KV'	133.3457 -0.018 30 -0.016	-0.29719	9
GE GE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197 197	-0.31374	AEPW	'FITZHUGH 161KV' 'FLINT CREEK 161KV'	30.99999 -0.030 420 -0.024	-0.28315	
GE	'MUSKOGEE 161KV'	197	-0.31374	AEPW	'NORTHEASTERN STATION 138KV'	500 -0.017	-0.29639	9
GE GE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197		SWPA AEPW	'OZARK 161KV' 'WELEETKA 138KV'	130.6 -0.030 70 -0.025		3
/PA	'WEBBERS FALLS 161KV'	30	-0.15495	OKGE	'MUSKOGEE 345KV'	1516 0.131	-0.28604	4
GE GE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197	-0.31374	GRDA	'GRDA1 345KV' 'KERR 115KV'	100 -0.034 13.5 -0.046	-0.26756	6
GE GE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197 197	-0.31374	AEPW	'L&D13 69KV' 'PENSACOLA 161KV'	11 -0.03	-0.27624	4
GE	'MUSKOGEE 161KV'	197	-0.31374	GRDA	'GRDA1 161KV'	57.61429 -0.050	-0.26336	6
GE GE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197			'KERR 161KV' 'ROBERT S. KERR 161KV'	13.5 -0.048 314.2 -0.055		
GE	'MUSKOGEE 161KV'	197	-0.31374	GRDA	'SALINA 161KV'	20.22854 -0.048	-0.26563	3
/PA /PA	'EUFAULA 138KV' 'EUFAULA 161KV'	9.000004			'MUSKOGEE 345KV' 'MUSKOGEE 345KV'	1516 0.131 1516 0.131		
GE	'MUSKOGEE 161KV'	197	-0.31374	SWPA	'EUFAULA 138KV'	51 -0.094	-0.2194	4
IGE /PA	'MUSKOGEE 161KV' 'ROBERT S. KERR 161KV'	197			'EUFAULA 161KV' 'MUSKOGEE 345KV'	69.6 -0.094 1516 0.131		
DA	'GRDA1 161KV'	132.3857	-0.05038	OKGE	'MUSKOGEE 345KV'	1516 0.131	-0.18147	7
IDA IDA	'KERR 115KV' 'KERR 161KV'	28.5	-0.04618		'MUSKOGEE 345KV' 'MUSKOGEE 345KV'	1516 0.131 1516 0.131		
DA	'SALINA 161KV'	77.77146	-0.04811	OKGE	'MUSKOGEE 345KV'	1516 0.131	-0.1792	2
DA	'PENSACOLA 161KV'	42	-0.03953	IOKCE	'MUSKOGEE 345KV'	1516 0.131	-0.17062	2

Upgrade: Limiting Facility:

5 TRIBES - HANCOCK 161KV CKT 1 PECAN CREEK (PECANCK1) 345/161/13.8KV TRANSFORMER CKT 1

	From->To FT SMITH - MUSKOGEE 345KV CKT 1								
Flowgate:	PECCANCK12751553025522413107SP 6/1/07 - 10/1/07								
	2007 Summer Peak	Aggragate Balief	1						
Reservation	Relief Amount	Aggregate Relief Amount							
1161665 1161666	0.3 5.5	13.4							
1161667 1162654	3.4								
1162763	2.0	13.4							
1162766	1.8			Sink					Aggregate
Source Control Area	Source	Maximum Increment(MW)	GSF	Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Redispatch Amount (MW)
OKGE	MUSKOGEE 161KV MUSKOGEE 161KV	197 197	-0.29781 -0.29781		MUSKOGEE 345KV' 'OEC 345KV'	1516 506	0.14393 0.07008	-0.44174 -0.36789	30 36
OKGE	'MUSKOGEE 161KV'	197	-0.29781	AEPW	'COGENTRIX 345KV'	765	0.06587	-0.36368	37
	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197 197	-0.29781 -0.29781	AEPW SWPA	'RIVERSIDE STATION 138KV' 'KEYSTONE DAM 161KV'	646 150.2	0.05171 0.04152	-0.34952 -0.33933	38 39
OKGE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197 197	-0.29781	AEPW OKGE	'NORTHEASTERN STATION 345KV' 'REDBUD 345KV'	645 250	0.04737 0.04319	-0.34518 -0.341	39 39
OKGE	'MUSKOGEE 161KV'	197	-0.29781	OKGE	'SEMINOLE 345KV'	996	0.04283	-0.34064	39
OKGE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197 197	-0.29781 -0.29781	AEPW WFEC	'TULSA POWER STATION 138KV' 'ANADARKO 138KV'	239 281.2735	0.04943	-0.34724 -0.33483	39 40
	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197 197	-0.29781 -0.29781		COMANCHE 138KV' COMANCHE 69KV'	160	0.03989	-0.3377	40 40
OKGE	'MUSKOGEE 161KV'	197 197	-0.29781		HORSESHOE LAKE 138KV MCCLAIN 138KV	589.4307 478	0.03326	-0.33107	40
OKGE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197	-0.29781	WFEC	'MORLND 138KV'	294.7338	0.03728	-0.33392	40 40
OKGE OKGE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197 197	-0.29781 -0.29781	OKGE OKGE	'MUSTANG 138KV' 'MUSTANG 69KV'	365.5 106	0.03707	-0.33488 -0.33468	40 40
OKGE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197 197		OKGE	'OMPA-KAW 69KV' 'OMPA-PONCA CITY 69KV'	19.7 76.3749	0.03382	-0.33163 -0.33163	40 40
OKGE	'MUSKOGEE 161KV'	197	-0.29781	OKGE	'ONE OAK 345KV'	132	0.03901	-0.33682	40
	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197 197	-0.29781 -0.29781	OKGE AEPW	'SEMINOLE 138KV' 'SLEEPING BEAR 138KV'	476.2902 80	0.03935	-0.33716 -0.33392	40 40
OKGE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197 197	-0.29781 -0.29781	OKGE	SLEEPING BEAR 34KV' SMITH COGEN 138KV'	120 120	0.03617	-0.33398 -0.33478	40 40
OKGE	'MUSKOGEE 161KV'	197	-0.29781	OKGE	SOONER 138KV	505	0.03471	-0.33252	40
OKGE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197 197	-0.29781 -0.29781	OKGE AEPW	'SOONER 345KV' 'SOUTHWESTERN STATION 138KV'	513 327	0.03624	-0.33405 -0.33517	40 40
OKGE OKGE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197 197	-0.29781 -0.29781		'WEATHERFORD 34KV' 'BOOMER 69KV'	148 24	0.0368	-0.33461 -0.32985	40 41
OKGE	'MUSKOGEE 161KV'	197	-0.29781	WERE	'CHANUTE 69KV'	56.723	0.02736	-0.32517	41
OKGE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197 197	-0.29781 -0.29781	WERE	CITY OF AUGUSTA 69KV' CITY OF BURLINGTON 69KV'	24 34.753	0.02737	-0.32518 -0.32302	41 41
OKGE OKGE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197 197	-0.29781 -0.29781	WERE	'CITY OF ERIE 69KV' 'CITY OF IOLA 69KV'	23.27 24.267	0.02736	-0.32517 -0.32396	41
OKGE	'MUSKOGEE 161KV'	197 197	-0.29781 -0.29781	WERE	CITY OF WINFIELD 69KV' CLR_1 .575 34KV'	27.962	0.0297	-0.32751	41 41
OKGE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197	-0.29781	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	102 19.97	0.02734	-0.32515 -0.32302	41
OKGE OKGE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197 197	-0.29781 -0.29781		'DENISON 138KV' 'EVANS ENERGY CENTER 138KV'	59.40001 510	0.03206	-0.32987 -0.3253	41 41
	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197 197	-0.29781 -0.29781		'FLINT CREEK 161KV' 'GILL ENERGY CENTER 138KV'	420 155	0.02501	-0.32282	41 41
OKGE	'MUSKOGEE 161KV'	197	-0.29781	WERE	'GILL ENERGY CENTER 69KV'	45	0.02748	-0.32529	41
OKGE OKGE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197 197	-0.29781 -0.29781	OKGE WFEC	'HORSESHOE LAKE 69KV' 'HUGO 138KV'	16 450	0.03033	-0.32814 -0.32675	41 41
	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197 197	-0.29781 -0.29781		'NORTHEASTERN STATION 138KV' 'WACO 138KV'	500 17.96	0.02967	-0.32748 -0.32523	41 41
OKGE	'MUSKOGEE 161KV'	197	-0.29781	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.02214	-0.31995	42
OKGE OKGE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197 197		SWPA WERE	'BEAVER 161KV' 'BPU - CITY OF MCPHERSON 115KV'	135.6812 135	0.01932	-0.31713 -0.32031	42
	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197	-0.29781 -0.29781	SWPA SWPA	'BROKEN BOW 138KV' 'CARTHAGE 69KV'	93.4	0.02151	-0.31932 -0.31601	42
OKGE	'MUSKOGEE 161KV'	197	-0.29781	WERE	'HUTCHINSON ENERGY CENTER 115KV'	205	0.0227	-0.32051	42
OKGE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197 197	-0.29781 -0.29781	WERE	'HUTCHINSON ENERGY CENTER 69KV' 'JEFFREY ENERGY CENTER 230KV'	20.74317 470	0.0227	-0.32051 -0.31945	42
	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197 197	-0.29781 -0.29781		'JEFFREY ENERGY CENTER 345KV' 'LAWRENCE ENERGY CENTER 230KV'	940 218.9878	0.0216	-0.31941 -0.3192	42
OKGE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197 197	-0.29781 -0.29781	AEPW	'NARROWS 69KV' TECUMSEH ENERGY CENTER 115KV'	22 128	0.01904 0.02151	-0.31685 -0.31932	42
OKGE	'MUSKOGEE 161KV'	197	-0.29781	AEPW	'WELSH 345KV'	990	0.01813	-0.31594	42
	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197 197	-0.29781 -0.29781		'ARSENAL HILL 69KV' 'CLARENCE CANNON DAM 69KV'	15 39.2	0.01223	-0.31004 -0.30917	43 43
	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197 197		AEPW	'EASTMAN 138KV' 'GRDA1 345KV'	155 100	0.01493 0.00993	-0.31274 -0.30774	43 43
OKGE	'MUSKOGEE 161KV'	197	-0.29781	SWPA	'JAMES RIVER 161KV'	159	0.01587	-0.31368	43
OKGE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197 197	-0.29781 -0.29781		'JAMES RIVER 69KV' 'KNOXLEE 138KV'	234.0099 256.1094	0.01587	-0.31368 -0.31253	43 43
	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197	-0.29781 -0.29781	AEPW AEPW	'LEBROCK 345KV' 'LIEBERMAN 138KV'	365	0.01494	-0.31275	43
OKGE	'MUSKOGEE 161KV'	197	-0.29781	SWPA	'MCCARTNEY 161KV' 'PIRKEY GENERATION 138KV'	100		-0.31332	43
OKGE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197	-0.29781	SWPA	'SOUTHWEST 161KV'	222.3152	0.01621	-0.31402	43 43
	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197 197	-0.29781 -0.29781		TRUMAN 161KV' 'WILKES 138KV'	102 353.4994	0.01573	-0.31354 -0.31344	43 43
OKGE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197 197	-0.29781 -0.29781	AEPW	WILKES 345KV' 'BULL SHOALS 161KV'	311 278.7		-0.31309	43 44
OKGE	'MUSKOGEE 161KV'	197	-0.29781	AEPW	WELEETKA 138KV	70	0.00286	-0.30067	44
	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197 197	-0.29781 -0.29781	SWPA SWPA	'JONESBORO 161KV' 'SIKESTON 161KV'	43 235	-0.00246 0.00178	-0.29535 -0.29959	45 45
	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197 197	-0.29781 -0.29781		'GRDA1 161KV' 'SALINA 161KV'	57.05569 21.90542	-0.00826 -0.00534		46 46
SWPA	WEBBERS FALLS 161KV	30	-0.14959	OKGE	'MUSKOGEE 345KV'	1516	0.14393	-0.29352	46
OKGE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197 197	-0.29781 -0.29781	AEPW	'GREERS FERRY 161KV' 'FITZHUGH 161KV'	93.4 30.99999	-0.01034 -0.05708		47 56
	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	197 197	-0.29781 -0.29781		'OZARK 161KV' 'AES 161KV'	130.6 320	-0.05701 -0.06234	-0.2408	56 57
SWPA	'ROBERT S. KERR 161KV'	74.5	-0.07723	OKGE	MUSKOGEE 345KV ROBERT S. KERR 161KV	1516	0.14393	-0.22116	60
SWPA	'MUSKOGEE 161KV' 'WEBBERS FALLS 161KV'	197 30	-0.29781 -0.14959	AEPW	'OEC 345KV'	314.2 506	-0.07723 0.07008	-0.22058 -0.21967	61 61
	'WEBBERS FALLS 161KV' 'AES 5161 161KV'	30 580	-0.14959 -0.06234		'COGENTRIX 345KV' 'MUSKOGEE 345KV'	765	0.06587	-0.21546	62 65
OKGE	'MUSKOGEE 161KV'	197	-0.29781	SWPA	'EUFAULA 138KV'	51	-0.09202	-0.20579	65
SWPA	'MUSKOGEE 161KV' 'WEBBERS FALLS 161KV'	197 30	-0.29781 -0.14959	AEPW	'EUFAULA 161KV' 'RIVERSIDE STATION 138KV'	69.6 646	-0.09215 0.05171	-0.20566	65 66
	'FITZHUGH 161KV' 'OZARK 161KV'	95.00001 64.90001	-0.05708 -0.05701		'MUSKOGEE 345KV' 'MUSKOGEE 345KV'	1516 1516	0.14393	-0.20101	67 67
SWPA	WEBBERS FALLS 161KV' 'WEBBERS FALLS 161KV'	30	-0.14959	AEPW	TULSA POWER STATION 138KV' 'NORTHEASTERN STATION 345KV'	239	0.04943 0.04737	-0.19902	67 68
SWPA	WEBBERS FALLS 161KV	30	-0.14959	OKGE	'REDBUD 345KV'	250	0.04319	-0.19278	69
	WEBBERS FALLS 161KV WEBBERS FALLS 161KV	30 30	-0.14959 -0.14959		'KEYSTONE DAM 161KV' 'SEMINOLE 345KV'	150.2 996		-0.19111 -0.19242	70 70

Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.

Factor = Source GSF - Sink GSF Redispatch Amount = Relief Amount / Factor

Upgrade: Limiting Facility:	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV C BELTON SOUTH - TURNER ROAD SUBSTATION 161KV C					
Direction: Line Outage:	GRD OAK - PLEASANT HILL 345KV CKT 1					
Flowgate: Date Redispatch Needed:	59340592591591985920011107SP 6/1/07 - 10/1/07					
Season Flowgate Identified:	2007 Summer Peak	Aggregate Relief	1			
Reservation 116264	Relief Amount 4.:	Amount				
116268			Sink	1	1 1	A
	-	Maximum	Control		Maximum	Aggregate Redispatch
Source Control Area	Source 'ARIES 161KV'	Increment(MW) 595	GSF Area -0.0451 MIPU	Sink 'SOUTH HARPER 161KV'	315 0.39783	actor Amount (MW) -0.44293 1
MIPU	'GREENWOOD 161KV'	218.3922	-0.04811 MIPU	'SOUTH HARPER 161KV'	315 0.39783	-0.44594 1
MIPU	'LAKE ROAD 161KV'	91	-0.01573 MIPU	'SOUTH HARPER 161KV'	315 0.39783	-0.41356 1
KACP	'MARSHALL 161KV'	54.1	-0.01571 MIPU	SOUTH HARPER 161KV	315 0.39783	-0.41354 1
KACP	'MONTROSE 161KV'	24.63371	-0.02083 MIPU	SOUTH HARPER 161KV	315 0.39783	-0.41866 1
(ACP	NORTHEAST 13KV	128.6958	-0.02906 MIPU	SOUTH HARPER 161KV	315 0.39783	-0.42689 1
(ACP	NORTHEAST 161KV	174	-0.02906 MIPU	SOUTH HARPER 161KV	315 0.39783	-0.42689 1
MIPU	SIBLEY 161KV	13.97638	-0.0335 MIPU	SOUTH HARPER 161KV'	315 0.39783	-0.43133 1
NDN	SUB H 69KV	9.92986	-0.03262 MIPU	SOUTH HARPER 161KV'	315 0.39783	-0.43045 1
NDN	'SUB I 69KV'	38	-0.03284 MIPU	'SOUTH HARPER 161KV'	315 0.39783	-0.43067
NDN	SUBSTATION J 69KV'	30	-0.03277 MIPU	SOUTH HARPER 161KV	315 0.39783	-0.4306 1
/IPU		32.1	-0.02448 MIPU	SOUTH HARPER 161KV	315 0.39783	-0.42231 1
SWPA	BEAVER 161KV	29.54257	0.00873 MIPU	SOUTH HARPER 161KV	315 0.39783	-0.3891 1
SWPA	BROKEN BOW 138KV	17.55428	0.00945 MIPU	SOUTH HARPER 161KV	315 0.39783	-0.38838 1
VERE	BROWN COUNTY 115KV	5.5	0.0084 MIPU	'SOUTH HARPER 161KV'	315 0.39783	-0.38943
KACP	BULL CREEK 161KV		-0.00404 MIPU	'SOUTH HARPER 161KV'	315 0.39783	-0.40187
SWPA	BULL SHOALS 161KV'	113.7475	0.00383 MIPU	SOUTH HARPER 161KV	315 0.39783	-0.394 1
SWPA	CLARENCE CANNON DAM 69KV'	9.302681	-0.0087 MIPU	SOUTH HARPER 161KV	315 0.39783	-0.40653 1
WERE	COLBY 115KV	5.722998	0.0074 MIPU	SOUTH HARPER 161KV'	315 0.39783	-0.39043 1
SWPA	EUFAULA 138KV	9.52108	0.01053 MIPU	SOUTH HARPER 161KV'	315 0.39783	-0.3873 1
SWPA SWPA KACP	EUFAULA 161KV' 'GARDNER 161KV'	9.52106 13.11112 11	0.01053 MIPU -0.00656 MIPU	SOUTH HARPER 161KV SOUTH HARPER 161KV SOUTH HARPER 161KV	315 0.39783 315 0.39783 315 0.39783	-0.3873 -0.40439
SWPA	'GREERS FERRY 161KV'	17.55428	0.00326 MIPU	SOUTH HARPER 161KV SOUTH HARPER 161KV' SOUTH HARPER 161KV'	315 0.39783	-0.39457
SWPA SWPA	'INDEPENDENCE 161KV' 'JONESBORO 161KV'	13		'SOUTH HARPER 161KV'	315 0.39783 315 0.39783	-0.3951 -0.39675
SWPA	'KENNETT 69KV'	21.8	0.00008 MIPU	SOUTH HARPER 161KV'	315 0.39783	-0.39775 1
SWPA	'MALDEN 69KV'	10	-0.00027 MIPU	SOUTH HARPER 161KV'	315 0.39783	-0.3981 1
MIPU	'NEVADA 69KV'	20.3	-0.01068 MIPU	SOUTH HARPER 161KV	315 0.39783	-0.40851 1
SWPA	'OZARK 161KV'	66.23437	0.00733 MIPU	SOUTH HARPER 161KV	315 0.39783	-0.3905 1
SWPA	PARAGOULD 69KV'	12	0.00066 MIPU	SOUTH HARPER 161KV'	315 0.39783	-0.39717
SWPA	PHELPS AVENUE-MAIN AVENUE 69KV'		0.00537 MIPU	SOUTH HARPER 161KV'	315 0.39783	-0.39246
SWPA	PIGGOTT 69KV'	7.5	-0.00005 MIPU	SOUTH HARPER 161KV'	315 0.39783	-0.39788
SWPA	POPLAR BLUFF 69KV'		-0.0006 MIPU	SOUTH HARPER 161KV'	315 0.39783	-0.39843
SWPA	'ROBERT S. KERR 161KV'	77.71024	0.00885 MIPU	'SOUTH HARPER 161KV'	315 0.39783	-0.38898
WERE	'SOUTH SENECA 115KV'	16.7	0.0093 MIPU	SOUTH HARPER 161KV	315 0.39783	-0.38853
SWPA	'SOUTHWEST 161KV'	59.68475	0.00567 MIPU	SOUTH HARPER 161KV	315 0.39783	-0.39216
SWPA	TRUMAN 161KV'	79.04216	-0.01315 MIPU	SOUTH HARPER 161KV'	315 0.39783	-0.41098
SWPA	WEBBERS FALLS 161KV'	30.39847	0.01064 MIPU	SOUTH HARPER 161KV'	315 0.39783	-0.38719
WERE	ABILENE ENERGY CENTER 115KV	5.999996	0.02144 MIPU	'SOUTH HARPER 161KV'	315 0.39783	-0.37639
WERE	BPU - CITY OF MCPHERSON 115KV	21.02441	0.01961 MIPU	'SOUTH HARPER 161KV'	315 0.39783	-0.37822
WERE	'CHANUTE 69KV'	31.077	0.01724 MIPU	SOUTH HARPER 161KV	315 0.39783	-0.38059
WERE	'CITY OF AUGUSTA 69KV'	10.141	0.02609 MIPU	SOUTH HARPER 161KV	315 0.39783	-0.37174
WERE	'CITY OF FREDONIA 69KV'	9.173	0.01916 MIPU	SOUTH HARPER 161KV'	315 0.39783	-0.37867
	'CITY OF GIRARD 69KV'	5.911	0.01526 MIPU	SOUTH HARPER 161KV'	315 0.39783	-0.38257
WERE	CITY OF IOLA 69KV'	13.361	0.01572 MIPU 0.02658 MIPU	SOUTH HARPER 161KV SOUTH HARPER 161KV	315 0.39783 315 0.39783	-0.38211 1 -0.37125 1
WERE	'CITY OF OSAGE CITY 115KV'	8.85	0.02691 MIPU	'SOUTH HARPER 161KV'	315 0.39783	-0.37092
WERE	CITY OF WINFIELD 69KV' CLAY CENTER JUNCTION 115KV'	12.038 38.1	0.02338 MIPU 0.02209 MIPU	SOUTH HARPER 161KV SOUTH HARPER 161KV	315 0.39783 315 0.39783	-0.37574
WERE	CLR_1 .575 34KV	90	0.02565 MIPU	'SOUTH HARPER 161KV'	315 0.39783	-0.37218 1
	CLR_2 .575 34KV	112.5	0.02565 MIPU	'SOUTH HARPER 161KV'	315 0.39783	-0.37218 1
WERE	CLR_3 .575 34KV'	97.5	0.02565 MIPU	'SOUTH HARPER 161KV'	315 0.39783	-0.37218 1
SWPA	DENISON 138KV'	11.2069	0.01263 MIPU	'SOUTH HARPER 161KV'	315 0.39783	-0.3852 1
WERE	'EVANS ENERGY CENTER 138KV' 'EVANS N4 138 16KV'	8 360	0.02694 MIPU 0.02694 MIPU	SOUTH HARPER 161KV SOUTH HARPER 161KV	315 0.39783 315 0.39783	-0.37089 1 -0.37089 1
WERE	'GETTY 69KV'	35	0.02581 MIPU	SOUTH HARPER 161KV'	315 0.39783	-0.37202 1
	'GILL ENERGY CENTER 138KV'	49	0.02641 MIPU	SOUTH HARPER 161KV'	315 0.39783	-0.37142 1
WERE	GILL ENERGY CENTER 69KV' GREAT BEND PLANT 69KV'	8	0.02642 MIPU 0.01532 MIPU	SOUTH HARPER 161KV' SOUTH HARPER 161KV'	315 0.39783 315 0.39783	-0.37141 1 -0.38251 1
WERE	HOLTON 115KV' 'HUTCHINSON ENERGY CENTER 115KV'	19.8 141		SOUTH HARPER 161KV SOUTH HARPER 161KV	315 0.39783 315 0.39783	-0.38616 1 -0.37854 1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	141 12 24	0.01929 MIPU 0.01916 MIPU	SOUTH HARPER 161KV SOUTH HARPER 161KV	315 0.39783	-0.37854
WERE	JEFFREY ENERGY CENTER 230KV' JEFFREY ENERGY CENTER 345KV'	42	0.01758 MIPU	'SOUTH HARPER 161KV'	315 0.39783	-0.38025
SWPA	'KEYSTONE DAM 161KV'	51.53461	0.01342 MIPU	SOUTH HARPER 161KV'	315 0.39783	-0.38441
WERE	'KNOLL 3 115 115KV'	234.36	0.0163 MIPU	SOUTH HARPER 161KV'	315 0.39783	-0.38153
WERE	'LANG 7 345 345KV'	828	0.03315 MIPU	SOUTH HARPER 161KV	315 0.39783	-0.36468
WERE	'LATHAM1134.0 345KV'		0.02565 MIPU	SOUTH HARPER 161KV	315 0.39783	-0.37218
WERE	'LATHAM1234.0 345KV'	75	0.02565 MIPU	SOUTH HARPER 161KV'	315 0.39783	-0.37218
WERE	'LAWRENCE ENERGY CENTER 230KV'	40.91452	0.02047 MIPU	SOUTH HARPER 161KV'	315 0.39783	-0.37736
WERE	'lyons 115kv'	999	0.01402 MIPU	SOUTH HARPER 161KV	315 0.39783	-0.38381
WERE	'pawnee 115kv'	999	0.01402 MIPU	SOUTH HARPER 161KV	315 0.39783	-0.38381
WERE	'rice 115kv' 'SMOKYHIL 230 230KV'	999	0.01402 MIPU	SOUTH HARPER 161KV' SOUTH HARPER 161KV'	315 0.39783 315 0.39783	-0.38381 -0.37856
WERE	IST JOHN 115KV TECUMSEH ENERGY CENTER 69KV	7.5	0.0172 MIPU 0.02048 MIPU	SOUTH HARPER 161KV SOUTH HARPER 161KV	315 0.39783 315 0.39783	-0.38063
WERE MIPU	CITY OF BURLINGTON 69KV'	21.247	0.02048 MIPU 0.03392 MIPU 0.07367 MIPU	SOUTH HARPER 161KV SOUTH HARPER 161KV SOUTH HARPER 161KV	315 0.39783 315 0.39783 315 0.39783	-0.36391 -0.32416
MIPU	'GREENWOOD 161KV'	218.3922	-0.04811 KACP	'LACYGNE UNIT 345KV'	958 0.04156	-0.08967
MIPU	'ARIES 161KV'	595	-0.0451 KACP	'LACYGNE UNIT 345KV'	958 0.04156	-0.08666
MIPU	'GREENWOOD 161KV'	218.3922	-0.04811 WERE	'CITY OF BURLINGTON 69KV'	34.753 0.03392	
AIPU	'ARIES 161KV'	595	-0.0451 WERE	CITY OF BURLINGTON 69KV'	34.753 0.03392	-0.07902
AIPU	'GREENWOOD 161KV'	218.3922	-0.04811 WERE	'EVANS ENERGY CENTER 138KV'	565 0.02694	-0.07505
AIPU	'GREENWOOD 161KV'	218.3922	-0.04811 WERE	CLR_1 .575 34KV'	102 0.02565	-0.07376
AIPU	'GREENWOOD 161KV'	218.3922	-0.04811 WERE	GILL ENERGY CENTER 138KV'	171 0.02641	-0.07452
	'GREENWOOD 161KV' 'SUB I 69KV'	218.3922	-0.04811 WERE -0.03284 KACP	GILL ENERGY CENTER 69KV' 'LACYGNE UNIT 345KV'	75 0.02642 958 0.04156	-0.07453 -0.0744
NDN MIPU	SUBSTATION J 69KV' 'ARIES 161KV'	30	-0.03277 KACP -0.0451 WERE	LACYGNE UNIT 345KV 'LACYGNE UNIT 345KV' 'EVANS ENERGY CENTER 138KV'	958 0.04156	-0.07433 -0.07204
MIPU	'ARIES 161KV'	595	-0.0451 WERE	'GILL ENERGY CENTER 138KV'	565 0.02694 171 0.02641	-0.07151
MIPU	'ARIES 161KV'	595	-0.0451 WERE	'GILL ENERGY CENTER 69KV'	75 0.02642	-0.07152
MIPU	'ARIES 161KV'	595	-0.0451 WERE	'CLR_1 .575 34KV'	102 0.02565	
KACP	NORTHEAST 13KV'	128.6958	-0.02906 KACP	'LACYGNE UNIT 345KV'	958 0.04156	-0.07062
KACP	NORTHEAST 161KV'	174		'LACYGNE UNIT 345KV'	958 0.04156	-0.07062
MIPU	'GREENWOOD 161KV'	218.3922	-0.04811 WERE	ABILENE ENERGY CENTER 115KV	40 0.02144	-0.06955
MIPU	'GREENWOOD 161KV'	218.3922	-0.04811 WERE	LAWRENCE ENERGY CENTER 230KV	228.0855 0.02047	-0.06858
MIPU MIPU	'GREENWOOD 161KV' 'GREENWOOD 161KV'	218.3922 218.3922 218.3922	-0.04811 WERE -0.04811 WERE	TECUMSEH ENERGY CENTER 115KV BPU - CITY OF MCPHERSON 115KV	158 0.02065 152.9756 0.01961	-0.06876 9 -0.06772 9
MIPU	GREENWOOD 161KV	218.3922	-0.04811 WERE	HUTCHINSON ENERGY CENTER 115KV	315 0.01929	-0.0674

# Factor = Source GSF - Sink GSF Redispatch Amount = Relief Amount / Factor

Upgrade: Limiting Facility:	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CF BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CF								
Direction: Line Outage:	From->To GRD OAK - PLEASANT HILL 345KV CKT 1								
Flowgate: Date Redispatch Needed:	59340592591591985920011108SP Starting 2008 6/1 - 10/1 Until EOC								
Season Flowgate Identified:	2008 Summer Peak		ī						
Reservation	Relief Amount	Aggregate Relief Amount							
1162649	9 4.3	4.3		Sink					Aggregate
Source Control Area	Source	Maximum Increment(MW)	GSF	Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Redispatch Amount (MW)
MIPU	'ARIES 161KV'	595 9.096649	-0.04502	MIPU	SOUTH HARPER 161KV	315	0.39768	-0.4427	10
SWPA MIPU	'CLARENCE CANNON DAM 69KV' 'GREENWOOD 161KV'	194.7876	-0.04803	8 MIPU	SOUTH HARPER 161KV SOUTH HARPER 161KV	315		-0.40642 -0.44571	1(
MIPU KACP	'LAKE ROAD 161KV' 'MARSHALL 161KV'	91 54.1			'SOUTH HARPER 161KV' 'SOUTH HARPER 161KV'	315	0.39768	-0.41379 -0.41339	10
INDN KACP	'MOCT 69KV' 'MONTROSE 161KV'	4.799999 23.88647			SOUTH HARPER 161KV' SOUTH HARPER 161KV'	315	0.39768	-0.42483 -0.4183	10
MIPU	'NEVADA 69KV'	20.3	-0.01045	MIPU	SOUTH HARPER 161KV SOUTH HARPER 161KV	315	0.39768	-0.40813	1(
KACP KACP	'NORTHEAST 13KV' 'NORTHEAST 161KV'	140.2944 174	-0.02916	MIPU	'SOUTH HARPER 161KV'	315	0.39768	-0.42684 -0.42684	10
MIPU INDN	'SIBLEY 161KV' 'SUB I 69KV'	13.36517 38			'SOUTH HARPER 161KV' 'SOUTH HARPER 161KV'	315	0.39768	-0.4312 -0.43058	10
INDN SWPA	'SUBSTATION J 69KV' 'TRUMAN 161KV'	30 79.02548			SOUTH HARPER 161KV SOUTH HARPER 161KV	315	0.39768	-0.4305 -0.41072	
MIPU	'TWA 161KV'	32.1	-0.02442	MIPU	'SOUTH HARPER 161KV'	315	0.39768	-0.4221	10
WERE	'ABILENE ENERGY CENTER 115KV' 'ATWOOD 115KV'	5.999996 4	0.00791	MIPU	SOUTH HARPER 161KV' SOUTH HARPER 161KV'	315	0.39768	-0.37575 -0.38977	11 11
SWPA WERE	'BEAVER 161KV' 'BPU - CITY OF MCPHERSON 115KV'	26.78471 39			'SOUTH HARPER 161KV' 'SOUTH HARPER 161KV'	315	0.39768	-0.3887 -0.37774	
SWPA WERE	BROKEN BOW 138KV BROWN COUNTY 115KV	17.34102	0.00945	MIPU	SOUTH HARPER 161KV' SOUTH HARPER 161KV'	315		-0.38823 -0.38883	11
KACP	'BULL CREEK 161KV'	65	-0.00458	MIPU	SOUTH HARPER 161KV SOUTH HARPER 161KV	315	0.39768	-0.40226	11
SWPA WERE	BULL SHOALS 161KV' CHANUTE 69KV'	113.009 32.163	0.01831	MIPU	'SOUTH HARPER 161KV'	315 315	0.39768	-0.39372 -0.37937	11
WERE	'CITY OF AUGUSTA 69KV' 'CITY OF FREDONIA 69KV'	8.840999 6.960999	0.01947	MIPU	'SOUTH HARPER 161KV' 'SOUTH HARPER 161KV'	315	0.39768	-0.37187 -0.37821	11
WERE	'CITY OF GIRARD 69KV' 'CITY OF IOLA 69KV'	6.108 13.157	0.01616	MIPU	SOUTH HARPER 161KV SOUTH HARPER 161KV	315	0.39768	-0.38152 -0.38028	11
WERE	'CITY OF MULVANE 69KV'	7.5	0.02623	MIPU	'SOUTH HARPER 161KV'	315	0.39768	-0.37145	11
WERE	CITY OF WINFIELD 69KV' CLAY CENTER JUNCTION 115KV'	13.23 38.1	0.02269	MIPU	SOUTH HARPER 161KV SOUTH HARPER 161KV	315	0.39768	-0.37455 -0.37499	1* 11
WERE	'CLR_1 .575 34KV' 'CLR_2 .575 34KV'	90 12.5			'SOUTH HARPER 161KV' 'SOUTH HARPER 161KV'	315 315	0.39768	-0.37237 -0.37237	
WERE	'CLR_3 .575 34KV' 'COLBY 115KV'	97.5 9.208385	0.02531	MIPU	SOUTH HARPER 161KV SOUTH HARPER 161KV	315 315	0.39768	-0.37237	11
SWPA	'DENISON 138KV'	10.9992	0.01262	MIPU	'SOUTH HARPER 161KV'	315	0.39768	-0.38506	11
SWPA SWPA	'EUFAULA 138KV' 'EUFAULA 161KV'	9.512741 12.90174	0.01058	8 MIPU	SOUTH HARPER 161KV' SOUTH HARPER 161KV'	315	0.39768	-0.38709 -0.3871	11
WERE	'EVANS ENERGY CENTER 138KV' 'EVANS N4 138 16KV'	217 360			SOUTH HARPER 161KV SOUTH HARPER 161KV	315		-0.37118 -0.37117	
KACP WERE	'GARDNER 161KV' 'GETTY 69KV'	11 35	-0.00703		SOUTH HARPER 161KV SOUTH HARPER 161KV	315 315	0.39768	-0.40471 -0.3721	11 11
WERE	'GILL ENERGY CENTER 138KV'	64.99999	0.02604	MIPU	'SOUTH HARPER 161KV'	315	0.39768	-0.37164	11
WERE	'GILL ENERGY CENTER 69KV' 'GREAT BEND PLANT 69KV'	38 10	0.01576	MIPU	'SOUTH HARPER 161KV' 'SOUTH HARPER 161KV'	315 315	0.39768	-0.37162 -0.38192	11 11
SWPA WERE	'GREERS FERRY 161KV' 'HOLTON 115KV'	17.34102 19.8			'SOUTH HARPER 161KV' 'SOUTH HARPER 161KV'	315	0.39768	-0.39437 -0.3855	11
WERE	HUTCHINSON ENERGY CENTER 115KV HUTCHINSON ENERGY CENTER 69KV	171	0.01962	MIPU	SOUTH HARPER 161KV SOUTH HARPER 161KV	315	0.39768	-0.37806 -0.37806	
SWPA	'INDEPENDENCE 161KV'	13	0.00277	MIPU	'SOUTH HARPER 161KV'	315	0.39768	-0.39491	11
WERE	JEFFREY ENERGY CENTER 230KV' JEFFREY ENERGY CENTER 345KV'	24 42	0.01784	MIPU	SOUTH HARPER 161KV' SOUTH HARPER 161KV'	315	0.39768	-0.37792 -0.37984	
SWPA SWPA	'JONESBORO 161KV' 'KENNETT 69KV'	20 21.5			'SOUTH HARPER 161KV' 'SOUTH HARPER 161KV'	315	0.39768	-0.39657 -0.39758	11
SWPA WERE	'KEYSTONE DAM 161KV' 'KNOLL 3 115 115KV'	51.11409 234.36			SOUTH HARPER 161KV' SOUTH HARPER 161KV'	315	0.39768	-0.3842 -0.3816	11
WERE	"LATHAM1134.0 345KV" "LATHAM1234.0 345KV"	75	0.02531	MIPU	SOUTH HARPER 161KV' SOUTH HARPER 161KV'	315	0.39768	-0.37237	11
WERE	'LAWRENCE ENERGY CENTER 230KV'	45.2319	0.02257	MIPU	'SOUTH HARPER 161KV'	315	0.39768	-0.37511	11
WERE SWPA	'lyons 115kv' 'MALDEN 69KV'	999 10			'SOUTH HARPER 161KV' 'SOUTH HARPER 161KV'	315	0.39768	-0.3834 -0.39794	11
SWPA SWPA	'MCCARTNEY 161KV' 'OZARK 161KV'	46.41407			'SOUTH HARPER 161KV' 'SOUTH HARPER 161KV'	315	0.39768	-0.39284	
SWPA	'PARAGOULD 69KV'	12 999	0.00068	MIPU	SOUTH HARPER 161KV	315	0.39768	-0.397	
SWPA	'pawnee 115kv' 'PHELPS AVENUE-MAIN AVENUE 69KV'	12	0.00556	MIPU	'SOUTH HARPER 161KV'	315	0.39768	-0.3834	11
SWPA SWPA	'PIGGOTT 69KV' 'POPLAR BLUFF 69KV'	7.5	-0.00058	MIPU	SOUTH HARPER 161KV SOUTH HARPER 161KV	315 315	0.39768	-0.39771 -0.39826	1* 1*
WERE SWPA	'rice 115kv' 'ROBERT S. KERR 161KV'	999 77.06489			SOUTH HARPER 161KV' SOUTH HARPER 161KV'	315	0.39768	-0.3834 -0.38878	11
WERE	'SMOKYHIL 230 230KV' 'SOUTH SENECA 115KV'	72	0.01923	MIPU	SOUTH HARPER 161KV' SOUTH HARPER 161KV'	315	0.39768	-0.37845	11
SWPA	'SOUTHWEST 161KV'	39.56488	0.00586	MIPU	'SOUTH HARPER 161KV'	315	0.39768	-0.39182	11
WERE	ST JOHN 115KV TECUMSEH ENERGY CENTER 115KV	7.5 16.71289	0.02222	MIPU	SOUTH HARPER 161KV' SOUTH HARPER 161KV'	315 315	0.39768	-0.38016 -0.37546	11
WERE SWPA	'TECUMSEH ENERGY CENTER 69KV' 'WEBBERS FALLS 161KV'	41 30.1941	0.022	MIPU MIPU	SOUTH HARPER 161KV' SOUTH HARPER 161KV'	315	0.39768	-0.37568 -0.38698	11
WERE	CITY OF BURLINGTON 69KV' CITY OF OSAGE CITY 115KV'	21.939 8.85	0.03316	MIPU MIPU	SOUTH HARPER 161KV' SOUTH HARPER 161KV'	315	0.39768	-0.36452 -0.37048	12
WERE	'LANG 7 345 345KV'	518	0.03219	MIPU	SOUTH HARPER 161KV SOUTH HARPER 161KV	315	0.39768	-0.36549	12
MIPU MIPU	'RALPH GREEN 69KV' 'GREENWOOD 161KV'	73.7 194.7876	-0.04803	KACP	'LACYGNE UNIT 345KV'	315 958	0.39768	-0.32394 -0.08848	48
MIPU MIPU	'ARIES 161KV' 'GREENWOOD 161KV'	595 194.7876	-0.04803	WERE	'LACYGNE UNIT 345KV' 'CITY OF BURLINGTON 69KV'	958 34.061	0.04045	-0.08547 -0.08119	53
MIPU MIPU	GREENWOOD 161KV' GREENWOOD 161KV'	194.7876 194.7876	-0.04803	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV' 'LANG 7 345 345KV'	19.98 310	0.03316	-0.08119	50
MIPU	'ARIES 161KV'	595	-0.04502	WERE	'CITY OF BURLINGTON 69KV'	34.061	0.03316	-0.07818	55
MIPU MIPU	'ARIES 161KV' 'ARIES 161KV'	595 595	-0.04502	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV' 'LANG 7 345 345KV'	19.98 310	0.03316	-0.07818 -0.07721	55
MIPU MIPU	'GREENWOOD 161KV' 'GREENWOOD 161KV'	194.7876 194.7876			'EVANS ENERGY CENTER 138KV' 'CITY OF AUGUSTA 69KV'	510	0.0265	-0.07453 -0.07384	57
MIPU MIPU	'GREENWOOD 161KV' 'GREENWOOD 161KV'	194.7876 194.7876	-0.04803	WERE	CLR_1 .575 34KV CLR_2 .575 34KV	102	0.02531	-0.07334	58
MIPU	'GREENWOOD 161KV'	194.7876	-0.04803	WERE	'GILL ENERGY CENTER 138KV'	155	0.02604	-0.07407	58
MIPU INDN	'GREENWOOD 161KV' 'SUB I 69KV'	194.7876 38	-0.0329	KACP	'GILL ENERGY CENTER 69KV' 'LACYGNE UNIT 345KV'	45 958	0.02606	-0.07409 -0.07335	58
	'SUBSTATION J 69KV'	30	0 02202	KACP	'LACYGNE UNIT 345KV'	958	0.04045	-0.07327	58
INDN MIPU	ARIES 161KV	595			CITY OF AUGUSTA 69KV	24	0.02581	-0.07083	

 IMIPU
 IARIES
 161KV
 595
 -0.04502/WERE
 IGILL ENERGY CENTER 12

 Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.
 Factor = Source GSF - Sink GSF
 Sink GSF

# Redispatch Amount = Relief Amount / Factor

Jpgrade: .imiting Facility:	BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1 BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1								
Direction: ine Outage:	To->From ORRICK - SIBLEY 161KV CKT 1								
owgate:	59205592351592445920214107SP 6/1/07 - 10/1/07								
	2007 Summer Peak								
eservation	Relief Amount	Aggregate Relief Amount							
1162650 1162651	0.2	2 0.4							
1162654	0.1	0.4							0
		Maximum	C	ink ontrol		Maximum			Aggregate Redispatch
Durce Control Area	Source 'ARIES 161KV'	Increment(MW) 595	-0.14166 IN	rea NDN	Sink 'BLUE VALLEY 69KV'	Decrement(MW) 85.08077	GSF 6 0.13146	Factor -0.27312	Amount (MV
IPU IPU	ARIES 161KV' 'ARIES 161KV'	595 595	-0.14166 N -0.14166 N		'SIBLEY 161KV' 'SIBLEY 69KV'	234.9036 45.99999	0.19131 0.16366	-0.33297 -0.30532	
PU	'GREENWOOD 161KV'	218.3922	-0.18486 IN	NDN	'BLUE VALLEY 69KV'	85.08077	0.13146	-0.31632	
PU PU	GREENWOOD 161KV' GREENWOOD 161KV'	218.3922 218.3922	-0.18486 IN -0.18486 N	IIPU	'MOCT 69KV' 'SIBLEY 161KV'	30.8 234.9036	0.0981 0.19131	-0.28296 -0.37617	
PU PU	'GREENWOOD 161KV' 'GREENWOOD 161KV'	218.3922 218.3922	-0.18486 N -0.18486 IN		SIBLEY 69KV' SUB H 69KV'	45.99999 29.07014	0.16366 0.11176	-0.34852 -0.29662	
PU PU	'RALPH GREEN 69KV' 'RALPH GREEN 69KV'	73.7	-0.11338 M	IIPU	SIBLEY 161KV' SIBLEY 69KV'	234.9036 45.99999	0.19131 0.16366	-0.30469 -0.27704	
ERE ERE	ABILENE ENERGY CENTER 115KV ABILENE ENERGY CENTER 115KV	5.999996	-0.00155 N -0.00155 N	IIPU	SIBLEY 161KV' SIBLEY 69KV'	234.9036	0.19131	-0.19286	
PU	'ARIES 161KV'	595	-0.14166 K	ACP	'HAWTHORN 161KV'	769	0.16366 0.04069	-0.16521 -0.18235	
PU PU	'ARIES 161KV' 'ARIES 161KV'	595 595	-0.14166 N -0.14166 N		'LAKE ROAD 161KV' 'LAKE ROAD 34KV'	35	0.03559	-0.17725 -0.17725	
PU PU	ARIES 161KV ARIES 161KV	595 595	-0.14166 IN -0.14166 K		'MOCT 69KV' 'NORTHEAST 13KV'	30.8 110	0.0981 0.03744	-0.23976 -0.1791	
PU	'ARIES 161KV'	595	-0.14166 K	ACP	'NORTHEAST 161KV'	76.2666	0.03744	-0.1791	
PU ERE	ARIES 161KV' ATWOOD 115KV'	595	0.00591 N		SUB H 69KV' SIBLEY 161KV'	29.07014 234.9036	0.11176 0.19131	-0.25342 -0.1854	
VPA VPA	BEAVER 161KV BEAVER 161KV	30.62647 30.62647	-0.00836 N -0.00836 N		'SIBLEY 161KV' 'SIBLEY 69KV'	234.9036 45.99999	0.19131 0.16366	-0.19967 -0.17202	
ERE	BPU - CITY OF MCPHERSON 115KV' BPU - CITY OF MCPHERSON 115KV'	18.58398 18.58398	-0.00072 N	IIPU	SIBLEY 161KV' SIBLEY 69KV'	234.9036 45.99999	0.19131 0.16366	-0.19203 -0.16438	
VPA	'BROKEN BOW 138KV'	17.5541	-0.00466 N	IIPU	'SIBLEY 161KV'	234.9036	0.19131	-0.19597	
VPA ERE	'BROKEN BOW 138KV' 'BROWN COUNTY 115KV'	17.5541 5.5	-0.00466 N 0.00711 N	IIPU	'SIBLEY 69KV' 'SIBLEY 161KV'	45.99999 234.9036	0.16366 0.19131	-0.16832 -0.1842	
ICP ICP	BULL CREEK 161KV BULL CREEK 161KV	65 65	-0.0041 N -0.0041 N		SIBLEY 161KV' SIBLEY 69KV'	234.9036 45.99999	0.19131 0.16366	-0.19541	
VPA VPA	BULL SHOALS 161KV' BULL SHOALS 161KV'	113.747 113.747		IIPU	SIBLEY 161KV' SIBLEY 69KV'	234.9036 45.99999	0.19131 0.16366	-0.19686	
VPA	'CARTHAGE 69KV'	1.999998	-0.01201 N	IIPU	SIBLEY 161KV	234.9036	0.19131	-0.20332	
VPA ERE	'CARTHAGE 69KV' 'CHANUTE 69KV'	1.999998 31.077	-0.01201 N -0.01063 N		SIBLEY 69KV' SIBLEY 161KV'	45.99999 234.9036	0.16366	-0.17567 -0.20194	
ERE	CHANUTE 69KV' CITY OF AUGUSTA 69KV'	31.077 10.141	-0.01063 N	IIPU	SIBLEY 69KV' SIBLEY 161KV	45.99999 234.9036	0.16366	-0.17429	
ERE	'CITY OF AUGUSTA 69KV'	10.141	-0.00874 N	IIPU	SIBLEY 69KV	45.99999	0.16366	-0.1724	
ERE ERE	CITY OF BURLINGTON 69KV CITY OF BURLINGTON 69KV	21.247 21.247	-0.01149 N -0.01149 N	IIPU	'SIBLEY 161KV' 'SIBLEY 69KV'	234.9036 45.99999	0.19131 0.16366	-0.2028 -0.17515	
ERE	CITY OF ERIE 69KV' CITY OF ERIE 69KV'	3.259999 3.259999	-0.01063 N		'SIBLEY 161KV' 'SIBLEY 69KV'	234.9036 45.99999	0.19131 0.16366	-0.20194 -0.17429	
ERE ERE	CITY OF FREDONIA 69KV' CITY OF FREDONIA 69KV'	9.173 9.173	-0.00971 N -0.00971 N	IIPU	SIBLEY 161KV' 'SIBLEY 69KV'	234.9036 45.99999	0.19131 0.16366	-0.20102 -0.17337	
ERE	'CITY OF GIRARD 69KV'	5.911	-0.01086 N	IIPU	'SIBLEY 161KV'	234.9036	0.19131	-0.20217	
ERE ERE	CITY OF GIRARD 69KV' CITY OF IOLA 69KV'	5.911 13.361	-0.01086 N -0.01137 N	IIPU	SIBLEY 69KV' SIBLEY 161KV'	45.99999 234.9036	0.16366	-0.17452 -0.20268	
ERE ERE	'CITY OF IOLA 69KV' 'CITY OF MULVANE 69KV'	13.361 7.502	-0.01137 N -0.00885 N		SIBLEY 69KV' SIBLEY 161KV'	45.99999 234.9036	0.16366	-0.17503 -0.20016	
ERE	CITY OF MULVANE 69KV' CITY OF OSAGE CITY 115KV'	7.502		IIPU	SIBLEY 69KV' SIBLEY 161KV'	45.99999 234.9036	0.16366	-0.17251	
ERE	'CITY OF OSAGE CITY 115KV'	8.85	-0.00451 N	IIPU	SIBLEY 69KV	45.99999	0.16366	-0.16817	
ERE	CITY OF WINFIELD 69KV' CITY OF WINFIELD 69KV'	12.038	-0.0083 N -0.0083 N	IIPU	SIBLEY 161KV' SIBLEY 69KV'	234.9036 45.99999	0.19131 0.16366	-0.19961 -0.17196	
VPA ERE	CLARENCE CANNON DAM 69KV CLAY CENTER JUNCTION 115KV	9.302589	0.00407 N -0.00186 N		'SIBLEY 161KV' 'SIBLEY 161KV'	234.9036 234.9036	0.19131	-0.18724 -0.19317	
ERE ERE	CLAY CENTER JUNCTION 115KV' CLR_1 .575 34KV'	38.1 90	-0.00186 N -0.00964 N	IIPU	SIBLEY 69KV SIBLEY 161KV	45.99999 234.9036	0.16366	-0.16552	
ERE	'CLR_1 .575 34KV'	90	-0.00964 N	IIPU	SIBLEY 69KV	45.99999	0.16366	-0.1733	
ERE	'CLR_2 .575 34KV' 'CLR_2 .575 34KV'	112.5 112.5	-0.00964 N -0.00964 N		'SIBLEY 161KV' 'SIBLEY 69KV'	234.9036 45.99999	0.19131 0.16366	-0.20095 -0.1733	
ERE	'CLR_3 .575 34KV' 'CLR_3 .575 34KV'	97.5 97.5	-0.00964 N -0.00964 N		SIBLEY 161KV' SIBLEY 69KV'	234.9036 45.99999	0.19131	-0.20095	
ERE	'COLBY 115KV'	6.839726	0.00624 N	IIPU	SIBLEY 161KV	234.9036	0.19131	-0.18507	
VPA VPA	DENISON 138KV' DENISON 138KV'	11.20678 11.20678	-0.00573 N -0.00573 N	IIPU	'SIBLEY 161KV' 'SIBLEY 69KV'	234.9036 45.99999	0.19131 0.16366	-0.19704 -0.16939	
VPA VPA	'EUFAULA 138KV' 'EUFAULA 138KV'	9.520981 9.520981	-0.00592 N -0.00592 N		SIBLEY 161KV' SIBLEY 69KV'	234.9036 45.99999	0.19131 0.16366	-0.19723 -0.16958	
VPA VPA	EUFAULA 161KV' 'EUFAULA 161KV'	13.11098 13.11098		IIPU	SIBLEY 161KV' SIBLEY 69KV'	234.9036 45.99999	0.19131 0.16366	-0.19723 -0.16958	
ERE	'EVANS ENERGY CENTER 138KV'	8	-0.00592 N -0.00874 N	IIPU	SIBLET 69NV SIBLEY 161KV' SIBLEY 69KV'	234.9036	0.19131	-0.20005	
ERE ERE	'EVANS ENERGY CENTER 138KV' 'EVANS N4 138 16KV'	8	-0.00874 N	IIPU	SIBLEY 161KV	45.99999 234.9036	0.16366 0.19131	-0.1724	
ERE CP	'EVANS N4 138 16KV' 'GARDNER 161KV'	360	-0.00874 N -0.00493 N		SIBLEY 69KV' SIBLEY 161KV'	45.99999 234.9036	0.16366	-0.1724	
CP ERE	GARDNER 161KV' 'GETTY 69KV'	11 35	-0.00493 N -0.00859 N	IIPU	SIBLEY 69KV SIBLEY 161KV	45.99999 234.9036	0.16366	-0.16859	
RE	'GETTY 69KV'	35	-0.00859 N	IIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.17225	
ERE ERE	GILL ENERGY CENTER 138KV GILL ENERGY CENTER 138KV	49 49	-0.00857 N	IIPU	'SIBLEY 161KV' 'SIBLEY 69KV'	234.9036 45.99999	0.19131 0.16366	-0.19988 -0.17223	
RE	GILL ENERGY CENTER 69KV' GILL ENERGY CENTER 69KV'	8	-0.00864 M		SIBLEY 161KV' SIBLEY 69KV'	234.9036 45.99999	0.19131 0.16366	-0.19995	
RE	GREAT BEND PLANT 69KV' 'GREAT BEND PLANT 69KV'	10	0.00124 N 0.00124 N	IIPU	SIBLEY 161KV' SIBLEY 69KV'	234.9036 45.99999	0.19131 0.16366	-0.19007	
PU	'GREENWOOD 161KV'	218.3922	-0.18486 W	/ERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00155	-0.18331	
PU PU	'GREENWOOD 161KV' 'GREENWOOD 161KV'	218.3922 218.3922	-0.18486 S	/ERE	'BEAVER 161KV' 'BPU - CITY OF MCPHERSON 115KV'	134.9735 155.416	-0.00836 -0.00072	-0.1765 -0.18414	
PU PU	'GREENWOOD 161KV' 'GREENWOOD 161KV'	218.3922 218.3922	-0.18486 S	WPA	BROKEN BOW 138KV' 'BULL CREEK 161KV'	92.4459 308	-0.00466 -0.0041	-0.1802 -0.18076	
PU	'GREENWOOD 161KV'	218.3922	-0.18486 S	WPA	'BULL SHOALS 161KV'	275.853	-0.00555	-0.17931	
PU PU	GREENWOOD 161KV GREENWOOD 161KV	218.3922 218.3922	-0.18486 S	/ERE	'CARTHAGE 69KV' 'CHANUTE 69KV'	30 56.723	-0.01201 -0.01063	-0.17285 -0.17423	
PU PU	'GREENWOOD 161KV' 'GREENWOOD 161KV'	218.3922 218.3922	-0.18486 W -0.18486 W		CITY OF AUGUSTA 69KV' CITY OF BURLINGTON 69KV'	24 34.753	-0.00874 -0.01149	-0.17612 -0.17337	
PU PU	GREENWOOD 161KV' 'GREENWOOD 161KV'	218.3922 218.3922	-0.18486 W	/ERE	CITY OF ERIE 69KV' CITY OF FREDONIA 69KV'	23.27	-0.01063	-0.17423	
PU	'GREENWOOD 161KV'	218.3922	-0.18486 V	/ERE	'CITY OF GIRARD 69KV'	4.789	-0.01086	-0.174	
PU PU	'GREENWOOD 161KV' 'GREENWOOD 161KV'	218.3922 218.3922		/ERE	CITY OF IOLA 69KV' CITY OF MULVANE 69KV'	24.267 8.288	-0.01137 -0.00885	-0.17349 -0.17601	
PU PU	'GREENWOOD 161KV' 'GREENWOOD 161KV'	218.3922 218.3922	-0.18486 W	/ERE	CITY OF NEODESHA 69KV' CITY OF WINFIELD 69KV'	4.494 27.962	-0.00957 -0.0083	-0.17529 -0.17656	

MIPU [GREENWOOD 161KV] 218.3922] -0.18486[WERE [CTTY OF WINFIELD 69KV] Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified. Factor = Source GSF - Sink GSF Redispatch Amount = Relief Amount / Factor

	BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1 BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1								
Direction:	To->From								
Flowgate:	PLEASANT HILL () 345/161/13.8KV TRANSFORMER CKT 1 59205592351PHILL737514107SP								
	6/1/07 - 10/1/07 2007 Summer Peak								
Reservation	Relief Amount	Aggregate Relief Amount							
1162650	1.6	3.7							
1162651 1162654	1.6								
				Sink					Aggregate
Source Control Area	Source	Maximum Increment(MW)	GSF	Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Redispatch Amount (MW)
MIPU MIPU	'ARIES 161KV' 'GREENWOOD 161KV'	595 218.3922	-0.24217		SIBLEY 161KV SIBLEY 161KV	234.9036	0.15488	-0.3970	
MIPU	'GREENWOOD 161KV'	218.3922	-0.27236	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.4050	9 9
MIPU MIPU	'ARIES 161KV' 'GREENWOOD 161KV'	595 218.3922	-0.24217 -0.27236	INDN	'SIBLEY 69KV' 'BLUE VALLEY 69KV'	45.99999	0.13273	-0.374	35 10
MIPU MIPU	GREENWOOD 161KV' ARIES 161KV'	218.3922 595	-0.27236		'SUB H 69KV' 'BLUE VALLEY 69KV'	29.07014 85.08077	0.09362	-0.3659	
MIPU	'ARIES 161KV'	595	-0.24217	INDN	SUB H 69KV	29.07014	0.09362	-0.3357	79 11
MIPU MIPU	'GREENWOOD 161KV' 'ARIES 161KV'	218.3922 595	-0.27236 -0.24217	INDN	'MOCT 69KV' 'MOCT 69KV'	30.8	0.07925	-0.3516	42 12
MIPU MIPU	'GREENWOOD 161KV' 'GREENWOOD 161KV'	218.3922 218.3922	-0.27236 -0.27236		'HAWTHORN 161KV' 'LAKE ROAD 161KV'	769	0.03173	-0.3040	
MIPU	'GREENWOOD 161KV'	218.3922	-0.27236	MIPU	'LAKE ROAD 34KV'	92	0.0288	-0.3011	16 12
MIPU MIPU	'GREENWOOD 161KV' 'GREENWOOD 161KV'	218.3922 218.3922	-0.27236		NORTHEAST 13KV' NORTHEAST 161KV'	110 76.2666	0.0283	-0.3006	
MIPU MIPU	'RALPH GREEN 69KV' 'GREENWOOD 161KV'	73.7 218.3922	-0.1616		SIBLEY 161KV CLARENCE CANNON DAM 69KV	234.9036 38.69741	0.15488	-0.3164	
MIPU	'GREENWOOD 161KV'	218.3922	-0.27236	WERE	'COLBY 115KV'	6.160274	0.00498	-0.2773	34 13
MIPU MIPU	'GREENWOOD 161KV' 'RALPH GREEN 69KV'	218.3922 73.7	-0.27236 -0.1616	MIPU	'IATAN 345KV' 'SIBLEY 69KV'	396 45.99999	0.01163	-0.2839	33 13
	ARIES 161KV ARIES 161KV	595 595	-0.24217 -0.24217	KACP	'HAWTHORN 161KV' 'LAKE ROAD 161KV'	769	0.03173	-0.273	39 14
MIPU	'ARIES 161KV'	595	-0.24217	MIPU	'LAKE ROAD 34KV'	92	0.0288	-0.2709	97 14
MIPU MIPU	'ARIES 161KV' 'ARIES 161KV'	595 595	-0.24217 -0.24217	KACP	'NORTHEAST 13KV' 'NORTHEAST 161KV'	76.2666	0.0283	-0.2704	47 14
MIPU MIPU	'GREENWOOD 161KV' 'GREENWOOD 161KV'	218.3922 218.3922	-0.27236	WERE	ABILENE ENERGY CENTER 115KV' BEAVER 161KV'	40	-0.00157 -0.00929	-0.2707	79 14
MIPU	'GREENWOOD 161KV'	218.3922	-0.27236	WERE	'BPU - CITY OF MCPHERSON 115KV'	155.416	-0.00089	-0.2714	47 14
MIPU MIPU	GREENWOOD 161KV GREENWOOD 161KV	218.3922 218.3922	-0.27236	KACP	BROKEN BOW 138KV BULL CREEK 161KV	92.4459	-0.00464 -0.00839	-0.267	97 14
MIPU MIPU	'GREENWOOD 161KV' 'GREENWOOD 161KV'	218.3922 218.3922	-0.27236	SWPA	BULL SHOALS 161KV' 'CARTHAGE 69KV'	275.853	-0.00623 -0.01435	-0.2661	13 14
MIPU	'GREENWOOD 161KV'	218.3922	-0.27236	WERE	'CHANUTE 69KV'	56.723	-0.01078	-0.2615	58 14
MIPU MIPU	'GREENWOOD 161KV' 'GREENWOOD 161KV'	218.3922 218.3922	-0.27236	WERE	CITY OF AUGUSTA 69KV' CITY OF BURLINGTON 69KV'	24	-0.00763 -0.00942	-0.2647	
MIPU MIPU	'GREENWOOD 161KV' 'GREENWOOD 161KV'	218.3922 218.3922	-0.27236	WERE	CITY OF ERIE 69KV' 'CITY OF GIRARD 69KV'	23.27	-0.01078 -0.0114	-0.2615	58 14
MIPU	'GREENWOOD 161KV'	218.3922	-0.27236	WERE	'CITY OF IOLA 69KV'	24.267	-0.01186	-0.260	05 14
MIPU MIPU	'GREENWOOD 161KV' 'GREENWOOD 161KV'	218.3922 218.3922	-0.27236		CITY OF MULVANE 69KV' CITY OF WINFIELD 69KV'	8.288	-0.00766 -0.0074	-0.264	
MIPU MIPU	GREENWOOD 161KV' GREENWOOD 161KV'	218.3922 218.3922	-0.27236	WERE	CLR_1 .575 34KV' COFFEY COUNTY NO. 2 SHARPE 69KV'	102	-0.00854 -0.00942	-0.2638	32 14
MIPU	'GREENWOOD 161KV'	218.3922	-0.27236	SWPA	'DENISON 138KV'	58.79322	-0.00566	-0.266	67 14
MIPU MIPU	'GREENWOOD 161KV' 'GREENWOOD 161KV'	218.3922 218.3922	-0.27236		'EUFAULA 138KV' 'EUFAULA 161KV'	50.47902 68.88902	-0.00602	-0.2663	
MIPU MIPU	'GREENWOOD 161KV' 'GREENWOOD 161KV'	218.3922 218.3922	-0.27236	WERE	'EVANS ENERGY CENTER 138KV' 'GILL ENERGY CENTER 138KV'	565	-0.00751 -0.00741	-0.2648	35 14
MIPU	'GREENWOOD 161KV'	218.3922	-0.27236	WERE	'GILL ENERGY CENTER 69KV'	75	-0.00747	-0.2648	39 14
MIPU MIPU	GREENWOOD 161KV GREENWOOD 161KV	218.3922 218.3922	-0.27236 -0.27236	SWPA WERE	GREERS FERRY 161KV' 'HUTCHINSON ENERGY CENTER 115KV'	92.4459	-0.003	-0.2693	58 14
MIPU MIPU	'GREENWOOD 161KV' 'GREENWOOD 161KV'	218.3922 218.3922	-0.27236	WERE	'HUTCHINSON ENERGY CENTER 69KV' 'JAMES RIVER 161KV'	40	-0.00078	-0.2715	58 14
MIPU	'GREENWOOD 161KV'	218.3922	-0.27236	SWPA	'JAMES RIVER 69KV'	234.2716	-0.01087	-0.2614	49 14
MIPU MIPU	GREENWOOD 161KV GREENWOOD 161KV	218.3922 218.3922	-0.27236 -0.27236		JEFFREY ENERGY CENTER 230KV JEFFREY ENERGY CENTER 345KV	470	-0.00078	-0.2715	13 14
MIPU MIPU	'GREENWOOD 161KV' 'GREENWOOD 161KV'	218.3922 218.3922	-0.27236 -0.27236		JONESBORO 161KV' 'KENNETT 69KV'	63	-0.00162 -0.00094	-0.2707	
MIPU	'GREENWOOD 161KV'	218.3922	-0.27236	SWPA	'KEYSTONE DAM 161KV'	148.6657	-0.00741	-0.2649	95 14
MIPU MIPU	GREENWOOD 161KV GREENWOOD 161KV	218.3922 218.3922	-0.27236 -0.27236		'LACYGNE UNIT 345KV' 'LAWRENCE ENERGY CENTER 230KV'	958 224.0775	-0.01107	-0.2612	21 14
MIPU MIPU	'GREENWOOD 161KV' 'GREENWOOD 161KV'	218.3922 218.3922	-0.27236 -0.27236		MALDEN 69KV' MCCARTNEY 161KV'	7	-0.0007 -0.01015	-0.2716	
MIPU	'GREENWOOD 161KV'	218.3922	-0.27236	SWPA	'OZARK 161KV'	129.2659	-0.00477	-0.2675	59 14
MIPU MIPU	'GREENWOOD 161KV' 'GREENWOOD 161KV'	218.3922 218.3922	-0.27236		'PARAGOULD 69KV' 'POPLAR BLUFF 69KV'	5.5	-0.00133	-0.2710	
MIPU MIPU	'GREENWOOD 161KV' 'GREENWOOD 161KV'	218.3922 218.3922		SWPA	ROBERT S. KERR 161KV' SIKESTON 161KV'	310.9904	-0.00536 -0.00024	-0.26	67 14
MIPU	'GREENWOOD 161KV'	218.3922	-0.27236	SWPA	SOUTHWEST 161KV	222.3152	-0.01086	-0.261	15 14
MIPU MIPU	'GREENWOOD 161KV' 'GREENWOOD 161KV'	218.3922 218.3922	-0.27236 -0.27236	WERE	TECUMSEH ENERGY CENTER 115KV' WACO 138KV'	158	-0.00192 -0.00742	-0.2649	94 14
MIPU MIPU	'GREENWOOD 161KV' 'RALPH GREEN 69KV'	218.3922 73.7	-0.27236	SWPA	WEBBERS FALLS 161KV' 'BLUE VALLEY 69KV'	38.6016 85.08077	-0.00626 0.11114	-0.266	61 14
MIPU	'ARIES 161KV'	595	-0.24217	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00157	-0.240	06 15
MIPU MIPU	ARIES 161KV' ARIES 161KV'	595 595	-0.24217 -0.24217	SWPA	'BPU - CITY OF MCPHERSON 115KV' 'CLARENCE CANNON DAM 69KV'	155.416 38.69741	0.00511	-0.2412 -0.2472	28 15
MIPU MIPU	'ARIES 161KV' 'ARIES 161KV'	595 595	-0.24217 -0.24217		COLBY 115KV' 'HUTCHINSON ENERGY CENTER 115KV'	6.160274	0.00498	-0.2471	15 15
MIPU	'ARIES 161KV'	595	-0.24217	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	-0.00078	-0.2413	39 15
MIPU MIPU	ARIES 161KV ARIES 161KV	595 595	-0.24217 -0.24217	WERE	'IATAN 345KV' 'JEFFREY ENERGY CENTER 230KV'	396 470	-0.00078	-0.253	39 15
MIPU MIPU	ARIES 161KV ARIES 161KV	595 595	-0.24217 -0.24217		JEFFREY ENERGY CENTER 345KV' JONESBORO 161KV'	940		-0.2419	
MIPU	'ARIES 161KV'	595	-0.24217	SWPA	'KENNETT 69KV'	7.2	-0.00094	-0.2412	23 15
MIPU MIPU	ARIES 161KV ARIES 161KV	595 595	-0.24217 -0.24217	SWPA	'MALDEN 69KV' 'PARAGOULD 69KV'	5.5		-0.2414	34 15
MIPU MIPU	ARIES 161KV ARIES 161KV	595 595	-0.24217	SWPA	POPLAR BLUFF 69KV' 'SIKESTON 161KV'	6 235	-0.00087	-0.241	13 15
MIPU	'ARIES 161KV'	595	-0.24217	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00192	-0.2402	25 15
MIPU MIPU	'GREENWOOD 161KV' 'GREENWOOD 161KV'	218.3922 218.3922	-0.27236 -0.27236	SWPA	'PAOLA COMBUSTION TURBINES 161KV' 'TRUMAN 161KV'	77 100.958	-0.02445	-0.2479	91 15
MIPU MIPU	'RALPH GREEN 69KV' 'RALPH GREEN 69KV'	73.7	-0.1616	5 INDN	MOCT 69KV' 'SUB H 69KV'	30.8 29.07014	0.07925	-0.2408	35 15
MIPU	'ARIES 161KV'	595	-0.24217	SWPA	'BEAVER 161KV'	134.9735	-0.00929	-0.2328	38 16
MIPU	ARIES 161KV' ARIES 161KV'	595 595	-0.24217	KACP	'BROKEN BOW 138KV' 'BULL CREEK 161KV'	92.4459	-0.00839	-0.2375	78 16
MIPU MIPU	ARIES 161KV ARIES 161KV	595 595	-0.24217	SWPA	BULL SHOALS 161KV' 'CARTHAGE 69KV'	275.853	-0.00623 -0.01435	-0.2359	94 16
MIPU	'ARIES 161KV'	595	-0.24217	WERE	'CHANUTE 69KV'	56.723	-0.01078	-0.2313	39 16
MIPU MIPU	'ARIES 161KV' 'ARIES 161KV'	595 595		WERE	CITY OF AUGUSTA 69KV' CITY OF BURLINGTON 69KV'	24			

Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified. Factor = Source GSF - Sink GSF Redispatch Amount = Relief Amount / Factor

miting Facility:	CARLSBAD PLANT 115/69KV TRANSFORMER CKT 1								
rection:	From->To								
ne Outage:	CARLSBAD PLANT 115/69KV TRANSFORMER CKT 2								
owgate:	52309523101523105230923207SP								
ate Redispatch Needed:	6/1/07 - 10/1/07								
eason Flowgate Identified:	2007 Summer Peak								
		Aggregate Relief							
eservation	Relief Amount	Amount							
1162675	5	4.1 4.1	Π						
				Sink				1	Aggregate
		Maximum		Control		Maximum			Redispatch
ource Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (M)
PS	'CARLSBAD 69KV'	18		-1 WEPL	'A. M. MULLERGREN GENERATOR 115KV'	63	(		
PS	'CARLSBAD 69KV'	18		-1 SPS	BLACKHAWK 115KV	220		D -1	
PS S	'CARLSBAD 69KV'	18		-1 SPS	CAPROCK 115KV	8			
S	'CARLSBAD 69KV'	18		-1 SUNC	'CITY OF GOODLAND 115KV'	6.8	(		
S	'CARLSBAD 69KV'	18		-1 SUNC	CITY OF HILL CITY 115KV	3			
PS S	CARLSBAD 69KV	18	2	-1 SUNC	CITY OF HUGOTON 69KV	6.2			
ŝ	CARLSBAD 69KV	18		-1 SUNC	CITY OF LAKIN 115KV	2.5	Ċ		
S	'CARLSBAD 69KV'	18		-1 WEPL	CLIFTON 115KV	42.82602	(		
'S	CARLSBAD 69KV	18		-1 AEPW	COGENTRIX 345KV	42.82002	(		
S	CARLSBAD 69KV	18		-1 AEPW	COMANCHE 138KV	160	(		
S S	CARLSBAD 69KV	18		-1 AEPW	COMANCHE 138KV	63	(		
'S	CARLSBAD 69KV	18		-1 SPS	CUNNINGHAM 115KV	181		0 -1 0 -1	
~S ~S	CARLSBAD 69KV	18		-1 SPS	CUNNINGHAM TISKV CUNNINGHAM 230KV	306	(		
2S	CARLSBAD 69KV CARLSBAD 69KV	18		-1 SPS -1 SPS	CUNNINGHAM 230KV	306	(		
25 25	CARLSBAD 69KV	18		-1 SPS -1 AEPW	'EASTMAN 138KV'	39	(		
'S	CARLSBAD 69KV	18	5	-1 AEPW	FITZHUGH 161KV	30.99999	(		
'S		18		-1 AEPW	'FLINT CREEK 161KV'	30.99999		0 -1 0 -1	
	CARLSBAD 69KV				FLINT CREEK IDIKV				
2S 2S	CARLSBAD 69KV	18		-1 SUNC	GARDEN CITY 115KV	57.12115	(		
	'CARLSBAD 69KV'	18		-1 WEPL	'GRAY COUNTY WIND FARM 115KV'	73			
S	'CARLSBAD 69KV'	18		-1 SPS	'HARRINGTON 230KV'	1066	(		
S	'CARLSBAD 69KV'	18		-1 SUNC	HOLCOMB 115KV	273.0142	(		
°S	'CARLSBAD 69KV'	18		-1 SPS	'HUBRCO2 69KV'	11	(		
S	'CARLSBAD 69KV'	18		-1 SUNC	JOHNSON 69KV	2.9	(		
'S	'CARLSBAD 69KV'	18		-1 SPS	JONES 230KV	486	(		
S	'CARLSBAD 69KV'	18		-1 WEPL	'JUDSON LARGE 115KV'	111.5378	(		
°S	'CARLSBAD 69KV'	18	3	-1 AEPW	'KNOXLEE 138KV'	225	(		
°S	'CARLSBAD 69KV'	18	3	-1 AEPW	'L&D13 69KV'	11	(		
PS .	'CARLSBAD 69KV'	18	3	-1 AEPW	'LEBROCK 345KV'	515	(		
rs	'CARLSBAD 69KV'	18		-1 AEPW	'LIEBERMAN 138KV'	73.99999	(		
PS	'CARLSBAD 69KV'	18		-1 SPS	'LP-BRND2 69KV'	20	(	0 -1	
'S	'CARLSBAD 69KV'	18		-1 SPS	'LP-HOLL2 69KV'	77.71875	(		J
'S	'CARLSBAD 69KV'	18		-1 SPS	'LP-MACK2 69KV'	60	(	0 -1	1
S	'CARLSBAD 69KV'	18	3	-1 SPS	'MADOX 115KV'	183	(	D -1	
S	'CARLSBAD 69KV'	18	3	-1 SPS	'MOORE COUNTY 115KV'	48	(	D -1	
S	'CARLSBAD 69KV'	18	3	-1 SPS	'MUSTANG 115KV'	300	(	D -1	
S	'CARLSBAD 69KV'	18		-1 SPS	'MUSTANG 230KV'	310	(	D -1	
S	'CARLSBAD 69KV'	18	3	-1 SPS	'MUSTG5 118.0 230KV'	50	(		
S	'CARLSBAD 69KV'	18	3	-1 AEPW	'NARROWS 69KV'	22	(		
S	'CARLSBAD 69KV'	18		-1 SPS	'NICHOLS 115KV'	213	Ċ		l I
s	'CARLSBAD 69KV'	18		-1 SPS	'NICHOLS 230KV'	244			
S	CARLSBAD 69KV	18		-1 AEPW	'NORTHEASTERN STATION 138KV'	500			
s	'CARLSBAD 69KV'	18		-1 AEPW	'NORTHEASTERN STATION 345KV'	645		- D -1	
s	CARLSBAD 69KV	18		-1 AEPW	OEC 345KV	519			
s	CARLSBAD 69KV	18		-1 AEPW	PIRKEY GENERATION 138KV	475			
s	CARLSBAD 69KV	18		-1 SPS	'PLANTX 115KV'	253			
S	CARLSBAD 69KV	18		-1 SPS	PLANTX 230KV	189			
s	CARLSBAD 69KV	18		-1 AEPW	'RIVERSIDE STATION 138KV'	646			
s	CARLSBAD 69KV	18		-1 SPS	SAN JUAN 230KV	12			
s	CARLSBAD 69KV	18		-1 SPS	SAN JOAN 230KV	20			
s s	CARLSBAD 69KV	18		-1 AEPW	SOUTHWESTERN STATION 138KV	20	(		
s S	CARLSBAD 69KV	18		-1 SPS	STEER WATER 115KV	2/2	(		
S	CARLSBAD 69KV	18		-1 SPS	TOLK 230KV	1023.059			
S	CARLSBAD 69KV	18		-1 AEPW	TULSA POWER STATION 138KV	1023.039			
S	CARLSBAD 69KV	18		-1 AEPW	WELEETKA 138KV	70	(		
S	CARLSBAD 69KV	18		-1 AEPW	WELSH 345KV	990	(		
'S	CARLSBAD 69KV	18		-1 AEPW	WILKES 138KV	323.5942	(		
s S	CARLSBAD 69KV	18				323.5942			
'S	CARLSBAD 69KV	18		-1 AEPW -1 SPS	WILKES 345KV		(		
	ICANLODAD DENV	18		-11040	WILWIND 230KV' imiting facility was identified.	16	(	<u>л</u> -1	4

2007 Summer Peak							
	Aggregate Relief						
Relief Amount	Amount						
75 4	.1 4.1	1					
			Sink				Aggregate
	Maximum		Control		Maximum		Redispatch
Source	Increment(MW)	GSF	Area	Sink	Decrement(MW) GSF	Factor	Amount (MW)
'CARLSBAD 69KV'	18	- 3	1 WEPL	'A. M. MULLERGREN GENERATOR 115KV'	63	0 .	1
'CARLSBAD 69KV'	18			'BLACKHAWK 115KV'	220	0 .	1
'CARLSBAD 69KV'	18	3 -	1 SPS	'CAPROCK 115KV'	8	0 .	1
'CARLSBAD 69KV'	18	- 3	1 SUNC	'CITY OF GOODLAND 115KV'	6.8	0 .	1
'CARLSBAD 69KV'	18	- 3	1 SUNC	'CITY OF HILL CITY 115KV'	3	0 .	1
'CARLSBAD 69KV'	18	- 3	1 SUNC	CITY OF HUGOTON 69KV	6.2	0 .	1
CARLSBAD 69KV	18	3 -	1 SUNC	CITY OF LAKIN 115KV	2.5	0 .	1
'CARLSBAD 69KV'	18	- 3	1 WEPL	CLIFTON 115KV	42.82602	0 .	1
CARLSBAD 69KV	18	3 -	1 AEPW	COGENTRIX 345KV	300	0 .	1
CARLSBAD 69KV	18	3 -	1 AEPW	COMANCHE 138KV	160	0 .	1
CARLSBAD 69KV	18	- 3	1 AEPW	COMANCHE 69KV	63	0 .	1
CARLSBAD 69KV	18	3 -	1 SPS	CUNNINGHAM 115KV	181	0 .	1
CARLSBAD 69KV	18	3 -	1 SPS	CUNNINGHAM 230KV	306	0 .	1
CARLSBAD 69KV	18	3 -	1 SPS	'CZ 69KV'	39	0 .	1
						0 .	1
CARLSBAD 69KV				FITZHUGH 161KV	30,99999	0 .	1
CARLSBAD 69KV	18	3 -	1 AFPW	'ELINT CREEK 161KV'	420	0 .	1
						0 .	1
						0 .	1
							1
							1
							1
							1
						-	1
							1
	Relief Amount           5         4.           Source         4.           CARLSBAD 69KV         60KV           CARLSBAD 69KV         60KV	CARLSBAD PLANT 115/69KV TRANSFORMER CKT 2 From>T0 CARLSBAD PLANT 115/69KV TRANSFORMER CKT 1 523095310523016230913207SP 6/1/07 - 10/1/07 2007 Summer Peak Relief Amount 5 4.1 4.1 CARLSBAD 69KV	CARLSBAD PLANT 115/69KV TRANSFORMER CKT 2 From-70 CARLSBAD PLANT 115/69KV TRANSFORMER CKT 1 52309523105230913207SP 6/1/07 - 10/1/07 2007 Summer Peak Relief Amount Aggregate Relief Amount Source Increment(MW) GSF CARLSBAD 69KV 1 18 CCARLSBAD 69KV 1 18 CARLSBAD 69KV 1 18 CCARLSBAD 69KV 1 18 CCCARLSBAD 69KV 1 18 CCCCARLSBAD 69KV	CARLSBAD PLANT 115/69KV TRANSFORMER CKT 2 From-70 CARLSBAD PLANT 115/69KV TRANSFORMER CKT 1 5230952310523105230913207SP 6/1/07 - 10/1/07 2007 Summer Peak Relief Amount Aggregate Relief Amount Source Control Amount Control Source Increment(WW) CSF Area Control Area CARLSBAD 69KV 18 -1 SPS CARLSBAD 69KV 18 -1 SUNC CARLSBAD 69KV 198 -1 SUNC CARLSBAD 69KV 198 -1 AEPW CARLSBAD 69KV 198 -1 AEPW	CARLSBAD PLANT 115/69KV TRANSFORMER CKT 2 From->To CARLSBAD PLANT 115/69KV TRANSFORMER CKT 1 523095231052301523015230152301523015230152301	CARLSBAD PLANT 115/68KV TRANSFORMER CKT 1 520052310523019520195         Aggregate Relief Amount         Aggregate Relief Amount         Sink         Maximum         Sink         Maximum         Control         Control         Maximum         Control         Control         Maximum         Control         Maximum         Control         Control         Maximum         Control         Control         Maximum         Control         Cont	CARLSBAD PLANT 115/69KV TRANSFORMER CKT 1         S2006520105230162209132075P         6/107 - 10/107         2007 Summer Peak         Relief Amount         5       4.1         6       Annount         5       4.1         CARLSBAD 69KV       18         GARLSBAD 69KV       18         CARLSBAD 69KV       18     <

SPS	'CARLSBAD 69KV'	18	-1 AEPW	'KNOXLEE 138KV'	225	D -1
SPS	'CARLSBAD 69KV'	18	-1 AEPW	'L&D13 69KV'	11	D -1
SPS	'CARLSBAD 69KV'	18	-1 AEPW	'LEBROCK 345KV'	515	D -1
SPS	'CARLSBAD 69KV'	18	-1 AEPW	'LIEBERMAN 138KV'	73.99999	D -1
SPS	'CARLSBAD 69KV'	18	-1 SPS	'LP-BRND2 69KV'	20	0 -1
SPS	'CARLSBAD 69KV'	18	-1 SPS	'LP-HOLL2 69KV'	77.71875	D -1
SPS	'CARLSBAD 69KV'	18	-1 SPS	'LP-MACK2 69KV'	60	0 -1
SPS	'CARLSBAD 69KV'	18	-1 SPS	'MADOX 115KV'	183	D -1
SPS	'CARLSBAD 69KV'	18	-1 SPS	'MOORE COUNTY 115KV'	48	0 -1
SPS	'CARLSBAD 69KV'	18	-1 SPS	'MUSTANG 115KV'	300	D -1
SPS	'CARLSBAD 69KV'	18	-1 SPS	'MUSTANG 230KV'	310	D -1
SPS	'CARLSBAD 69KV'	18	-1 SPS	'MUSTG5 118.0 230KV'	50	0 -1
SPS	'CARLSBAD 69KV'	18	-1 AEPW	'NARROWS 69KV'		D -1
SPS	'CARLSBAD 69KV'	18	-1 SPS	'NICHOLS 115KV'	213	D -1
SPS	'CARLSBAD 69KV'	18	-1 SPS	'NICHOLS 230KV'	244	0 -1
SPS	'CARLSBAD 69KV'	18	-1 AEPW	'NORTHEASTERN STATION 138KV'	500	D -1
SPS	'CARLSBAD 69KV'	18	-1 AEPW	'NORTHEASTERN STATION 345KV'	645	0 -1
SPS	'CARLSBAD 69KV'	18	-1 AEPW	'OEC 345KV'	519	D -1
SPS	'CARLSBAD 69KV'	18	-1 AEPW	'PIRKEY GENERATION 138KV'	475	D -1
SPS	'CARLSBAD 69KV'	18	-1 SPS	'PLANTX 115KV'	253	0 -1
SPS	'CARLSBAD 69KV'	18	-1 SPS	'PLANTX 230KV'	189	D -1
SPS	'CARLSBAD 69KV'	18	-1 AEPW	'RIVERSIDE STATION 138KV'	646	0 -1
SPS	'CARLSBAD 69KV'	18	-1 SPS	'SAN JUAN 230KV'	12	D -1
SPS	'CARLSBAD 69KV'	18	-1 SPS	SIDRCH 69KV	20	0 -1
SPS	'CARLSBAD 69KV'	18	-1 AEPW	'SOUTHWESTERN STATION 138KV'	272	D -1
SPS	'CARLSBAD 69KV'	18	-1 SPS	'STEER WATER 115KV'	8	0 -1
SPS	'CARLSBAD 69KV'	18	-1 SPS	'TOLK 230KV'	1023.059	D -1
SPS	'CARLSBAD 69KV'	18	-1 AEPW	'TULSA POWER STATION 138KV'	191	0 -1
SPS	'CARLSBAD 69KV'	18	-1 AEPW	WELEETKA 138KV	70	0 -1
SPS	'CARLSBAD 69KV'	18	-1 AEPW	WELSH 345KV	990	D -1
SPS	'CARLSBAD 69KV'	18	-1 AEPW	WILKES 138KV	323.5942	0 -1
SPS	'CARLSBAD 69KV'	18	-1 AEPW	WILKES 345KV	311	D -1
SPS	'CARLSBAD 69KV'	18	-1 SPS	WILWIND 230KV' limiting facility was identified.	16	D -1

	CLAREMORE (CLRAUTO3) 161/69/13.8KV TRANSFORMER CLAREMORE (CLRAUTO1) 161/69/13.8KV TRANSFORMER								
	From->To	CKII							
	CLAREMORE (CLRAUTO2) 161/69/13.8KV TRANSFORMER	OKTO							
	CLARAUTO12521CLARAUTO25223307SP	CONTZ							
	6/1/07 - 10/1/07								
	2007 Summer Peak								
Season Flowgate identified.	2007 Summer Peak	Aggregate Relief	٦						
Reservation	Relief Amount	Amount							
1161666	0.5								
1161667	0.5	5 1.1							
				Sink					Aggregate
	-	Maximum		Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink		GSF	Factor	Amount (MW)
GRDA	'PENSACOLA 69KV'	63			'AES 161KV'	320	0.00092	-0.10201	10
GRDA GRDA	'PENSACOLA 69KV'	63			'ANADARKO 138KV' 'ARSENAL HILL 69KV'	265.8584	0.00203	-0.10312 -0.10191	10
GRDA	PENSACOLA 69KV	63					0.00082	-0.10191	10
GRDA	'PENSACOLA 69KV' 'PENSACOLA 69KV'	63			'BOOMER 69KV' 'BROKEN BOW 138KV'	24	0.00343	-0.10452	10
GRDA	'PENSACOLA 69KV'	63			COGENTRIX 345KV	965	0.00298	-0.10237	10
GRDA	'PENSACOLA 69KV'	63			COMANCHE 138KV	160	0.00298	-0.10309	10
GRDA	'PENSACOLA 69KV'	63	-0.1010	AEPW	COMANCHE ISBRV	63	0.002	-0.10309	10
GRDA	'PENSACOLA 69KV'	63	-0.1010		DENISON 138KV	59.40001	0.00196	-0.10305	10
GRDA	'PENSACOLA 69KV'	63			'EASTMAN 138KV'	155	0.0009	-0.10199	10
GRDA	'PENSACOLA 69KV'	63			'ELK RIVER 345KV'	46	0.00012	-0.10121	10
GRDA	'PENSACOLA 69KV'	63	-0.10109	SWPA	'EUFAULA 138KV'	51	0.00142	-0.10251	10
GRDA	'PENSACOLA 69KV'	63	-0.10109		'EUFAULA 161KV'	69.6	0.00142	-0.10251	10
	'PENSACOLA 69KV'	63			'FITZHUGH 161KV'	30.99999	0.00065	-0.10174	10
GRDA	'PENSACOLA 69KV'	63			'GRDA1 161KV'	57.61429	0.0008	-0.10189	10
GRDA	'PENSACOLA 69KV'	63			'GRDA1 345KV'	100	0.001	-0.10209	10
GRDA	'PENSACOLA 69KV'	63			'GREERS FERRY 161KV'	93.4	-0.00003	-0.10106	10
GRDA	PENSACOLA 69KV	63			'HORSESHOE LAKE 138KV'	736.832	0.00226	-0.10335	10
GRDA GRDA	PENSACOLA 69KV	63			'HORSESHOE LAKE 69KV' 'HUGO 138KV'	450	0.00228	-0.10337	10
GRDA	'PENSACOLA 69KV' 'PENSACOLA 69KV'	63			'KEYSTONE DAM 161KV'	450	0.00162	-0.10271	10
GRDA	'PENSACOLA 69KV'	63			KNOXLEE 138KV	284	0.00089	-0.10198	10
	'PENSACOLA 69KV'	63	-0.1010		'L&D13 69KV'	11	0.00071	-0.10130	10
	'PENSACOLA 69KV'	63			LEBROCK 345KV	365	0.00089	-0.10198	10
GRDA	'PENSACOLA 69KV'	63			'LIEBERMAN 138KV'	125	0.00083	-0.10192	10
GRDA	'PENSACOLA 69KV'	63			'MCCLAIN 138KV'	478	0.00217	-0.10326	10
GRDA	'PENSACOLA 69KV'	63	-0.10109	WFEC	'MORLND 138KV'	294.7338	0.00208	-0.10317	10
GRDA	'PENSACOLA 69KV'	63			'MUSKOGEE 345KV'	1516	0.00213	-0.10322	10
GRDA	'PENSACOLA 69KV'	63			'MUSTANG 138KV'	365.5	0.00219	-0.10328	10
GRDA	'PENSACOLA 69KV'	63			'MUSTANG 69KV'	106	0.0022	-0.10329	10
GRDA	'PENSACOLA 69KV'	63			'NARROWS 69KV'	22	0.00115	-0.10224	10
GRDA GRDA	PENSACOLA 69KV	63			NORTHEASTERN STATION 138KV	500	0.00944	-0.11053	10
GRDA	PENSACOLA 69KV				'NORTHEASTERN STATION 345KV' 'OEC 345KV'	519	0.00262		10
GRDA	PENSACOLA 69KV	63			OPC 345KV OMPA-KAW 69KV	19.7	0.00289	-0.10398 -0.10372	10
GRDA	'PENSACOLA 69KV' 'PENSACOLA 69KV'	63			OMPA-RAW OSKV OMPA-PONCA CITY 69KV	76.33829	0.00263	-0.10372	10
GRDA	'PENSACOLA 69KV'	63			ONE OAK 345KV	336	0.00203	-0.10329	10
GRDA	'PENSACOLA 69KV'	63			OZARK 161KV	130.6	0.00065	-0.10174	10
GRDA	'PENSACOLA 69KV'	63			'PIRKEY GENERATION 138KV'	475	0.00089	-0.10198	10
GRDA	'PENSACOLA 69KV'	63			'REDBUD 345KV'	250	0.00233	-0.10342	10
GRDA	'PENSACOLA 69KV'	63			'RIVERSIDE STATION 138KV'	711.9999	0.0032	-0.10429	10
GRDA	'PENSACOLA 69KV'	63		SWPA	'ROBERT S. KERR 161KV'	314.2	0.001	-0.10209	10
GRDA	'PENSACOLA 69KV'	63		OKGE	SEMINOLE 138KV	480.4069	0.00213	-0.10322	10
GRDA	'PENSACOLA 69KV'	63	-0.10109		SEMINOLE 345KV	996	0.00212	-0.10321	10
GRDA	'PENSACOLA 69KV'	63			SMITH COGEN 138KV	120	0.00219	-0.10328	10
GRDA GRDA	'PENSACOLA 69KV' 'PENSACOLA 69KV'	63			SOONER 138KV'	505 513	0.00246	-0.10355	10
GRDA	PENSACOLA 69KV	63			SOUNER 345KV SOUTHWESTERN STATION 138KV	355	0.00217	-0.10326	10
	PENSACOLA 69KV	63			TULSA POWER STATION 138KV	259	0.00202	-0.10311	10
GRDA	PENSACOLA 69KV	63	-0.1010	SWPA	WEBBERS FALLS 161KV	259	0.00339	-0.10448	10
	'PENSACOLA 69KV'	63			WELEETKA 138KV	70	0.00124	-0.10235	10
GRDA	'PENSACOLA 69KV'	63			WELSH 345KV	990	0.00099	-0.10208	10
GRDA	'PENSACOLA 69KV'	63		AEPW	WILKES 138KV	415.2284	0.00093	-0.10202	10
GRDA	'PENSACOLA 69KV'	63	-0.10109	AEPW	WILKES 345KV	311	0.00091	-0.102	10
GRDA	'PENSACOLA 69KV'	63			'ASBURY 161KV'	191	-0.00509	-0.096	11
	'PENSACOLA 69KV'	63			'BEAVER 161KV'	134.0558	-0.00299	-0.0981	11
	PENSACOLA 69KV	63			BULL SHOALS 161KV	278.7	-0.0013	-0.09979	11
GRDA	PENSACOLA 69KV	63			CARTHAGE 69KV	30	-0.00604	-0.09505	11
GRDA	PENSACOLA 69KV	63			CLARENCE CANNON DAM 69KV	39.2	-0.00043	-0.10066	11
GRDA	'PENSACOLA 69KV'	63			FLINT CREEK 161KV	420	-0.00119	-0.0999	11
GRDA GRDA	'PENSACOLA 69KV' 'PENSACOLA 69KV'	63			'JAMES RIVER 161KV' 'JAMES RIVER 69KV'	159 234.1017	-0.00193	-0.09916	11
GRDA	'PENSACOLA 69KV'	63			JONESBORO 161KV	234.1017	-0.002	-0.10095	11
GRDA	'PENSACOLA 69KV'	63			KENNETT 69KV	7.2	-0.00014	-0.10093	11
	'PENSACOLA 69KV'	63			'KERR 115KV'	13.5	-0.00752	-0.09357	11
GRDA	'PENSACOLA 69KV'	63			'KERR 161KV'	13.5	-0.00195	-0.09914	11
GRDA	'PENSACOLA 69KV'	63		EMDE	'LARUSSEL 161KV'	116	-0.00504		11

GRDA	'PENSACOLA 69KV'			'MALDEN 69KV'	7	-0.00017	-0.10092	11
GRDA	'PENSACOLA 69KV'	63	-0.10109 SWPA	'MCCARTNEY 161KV'	100	-0.00181	-0.09928	11
GRDA	'PENSACOLA 69KV'	63	-0.10109 EMDE	'OZARK BEACH 161KV'	16	-0.00244	-0.09865	11
GRDA	'PENSACOLA 69KV'	63	-0.10109 SWPA	'PARAGOULD 69KV'	5.5	-0.00015	-0.10094	11
GRDA	'PENSACOLA 69KV'	63	-0.10109 SWPA	'POPLAR BLUFF 69KV'	6	-0.00028	-0.10081	11
GRDA	'PENSACOLA 69KV'	63	-0.10109 EMDE	'RIVERTON 161KV'	169.3992	-0.00817	-0.09292	11
GRDA	'PENSACOLA 69KV'	63	-0.10109 EMDE	'RIVERTON 69KV'	45.27979	-0.00878	-0.09231	11
GRDA	'PENSACOLA 69KV'	63	-0.10109 GRDA	'SALINA 161KV'	21.6559	-0.00195	-0.09914	11
GRDA	'PENSACOLA 69KV'	63	-0.10109 SWPA	SIKESTON 161KV	235	-0.0002	-0.10089	11
GRDA	'PENSACOLA 69KV'	63	-0.10109 SWPA	'SOUTHWEST 161KV'	222.3152	-0.00195	-0.09914	11
GRDA	'PENSACOLA 69KV'	63	-0.10109 EMDE	'STATE LINE 161KV'	503	-0.00742	-0.09367	11
GRDA	'PENSACOLA 69KV'	63	-0.10109 SWPA	TRUMAN 161KV	102	-0.0008	-0.10029	11
GRDA	'PENSACOLA 69KV'	63	-0.10109 GRDA	'PENSACOLA 161KV'	11	-0.02702	-0.07407	14
GRDA	'PENSACOLA 161KV'	42	-0.02702 AEPW	'NORTHEASTERN STATION 138KV'	500	0.00944	-0.03646	29
GRDA	'PENSACOLA 161KV'	42	-0.02702 GRDA	BOOMER 69KV	24	0.00343	-0.03045	35
GRDA	'PENSACOLA 161KV'	42	-0.02702 AEPW	'COGENTRIX 345KV'	965	0.00298	-0.03	35
GRDA	'PENSACOLA 161KV'	42	-0.02702 SWPA	'KEYSTONE DAM 161KV'	150.2	0.00367	-0.03069	35
GRDA	'PENSACOLA 161KV'	42	-0.02702 AEPW	'RIVERSIDE STATION 138KV'	711.9999	0.0032	-0.03022	35
GRDA	'PENSACOLA 161KV'	42	-0.02702 AEPW	'TULSA POWER STATION 138KV'	259	0.00339	-0.03041	35
Maximum Decrement and Max	ximum Increment were determine from the Souce and Sink Ope	rating Points in the	study models where li	miting facility was identified.				

Maximum Decrement and Maximum Increment Factor = Source GSF - Sink GSF Redispatch Amount = Relief Amount / Factor

GRDA         'PENSACOLA 69KV'         63         -0.10108         WFEC         IANADARKO 138KV'         264.7021         (           GRDA         'PENSACOLA 69KV'         63         -0.10108         GRDA         BOOMER 69KV         24         (         24         (         25.702         25.602         24.602         (         36.602	0.00944 0.00203 0.00343 0.00148 0.00298	Aggregate Redispatch Factor Amount (MW) -0.11052 21 -0.10311 22
Date Redispatch Needed:         Starting 2006 6/1 - 10/1 Unit IEOC           Season Flowgate Identified:         2008 Summer Peak           Reservation         Relief Amount           1161666         1.2           1161667         1.1           Source Control Area         Source           Increment(MW)         GSF           GRDA         PENSACOLA 69KV           63         -0.10108           67DA         PENSACOLA 69KV           63         -0.10108           67DA         PENSACOLA 69KV           63         -0.10108           67DA         PENSACOLA 69KV           67DA         PENSACOLA 69KV <th>0.00944 0.00203 0.00343 0.00148 0.00298</th> <th>Redispatch Factor Amount (MW) -0.11052 21</th>	0.00944 0.00203 0.00343 0.00148 0.00298	Redispatch Factor Amount (MW) -0.11052 21
Reservation         Relief Amount         Annount           1161666         1.2         2.3           1161667         1.1         2.3           Source Control Area         Source         Instrumm         Control           GRDA         PENSACOLA 69KV'         63         -0.10108 /kEPW         NORTHEASTERN STATION 138KV'         267021           GRDA         PENSACOLA 69KV'         63         -0.10108 /kEPW         NORTHEASTERN STATION 138KV'         2647021           GRDA         PENSACOLA 69KV'         63         -0.10108 /kEPW         NORTHEASTERN STATION 138KV'         2647021           GRDA         PENSACOLA 69KV'         63         -0.10108 /kEPW         NORTHEASTERN STATION 138KV'         2647021           GRDA         PENSACOLA 69KV'         63         -0.10108 /kEPW         NORTHEASTERN STATION 138KV'         2647021           GRDA         PENSACOLA 69KV'         63         -0.10108 /kEPW         COMANCHE 138KV'         2647021           GRDA         PENSACOLA 69KV'         63         -0.10108 /kEPW         COMANCHE 138KV'         2647021           GRDA         PENSACOLA 69KV         63         -0.10108 /kEPW         COMANCHE 138KV'         93.6           GRDA         PENSACOLA 69KV         63         -0.10108 /kEPW<	0.00944 0.00203 0.00343 0.00148 0.00298	Redispatch Factor Amount (MW) -0.11052 21
1161666         1.2         2.3           1161667         1.1         2.3           Source Control Area         Source         Increment(MW)         GSF         Area         Sink         Decrement(MW)         GS           GRDA         PENSACOLA 69KV'         63         -0.10108 MFEC         NANDARKO 138KV'         2647021         GRDA           GRDA         PENSACOLA 69KV'         63         -0.10108 MFEC         NANDARKO 138KV'         2647021         GRDA           GRDA         PENSACOLA 69KV'         63         -0.10108 MFEC         BOOMER 69KV         244         GRDA         PENSACOLA 69KV'         63         -0.10108 MFEC         900 MSKV         246         GRDA         PENSACOLA 69KV'         63         -0.10108 MECE         Maximum         93.6         GRDA         PENSACOLA 69KV'         63         -0.10108 MECE         900 MSKV         93.6         GRDA         PENSACOLA 69KV'         63         -0.10108 MER         900 MSKV         93.6         GRDA         PENSACOLA 69KV'         63         -0.10108 MECE         900 MSKV         93.6         GRDA         PENSACOLA 69KV'         63         -0.10108 MECE         900 MSKV         93.6         GRDA         PENSACOLA 69KV'         63         -0.10108 MEEPW         COGENTRIX 345KV         <	0.00944 0.00203 0.00343 0.00148 0.00298	Redispatch Factor Amount (MW) -0.11052 21
1161667         1.1         2.3           Source Control Area         Source         Maximum         Sink         Decrement(MW)         GS           GRDA         PENSACCLA 69KV         63         -0.10108         AFea         Sink         Decrement(MW)         GS           GRDA         PENSACCLA 69KV         63         -0.10108         Maximum         Source         500         0           GRDA         PENSACCLA 69KV         63         -0.10108         MEEC         AnADARKO 138KV         264.7021         0           GRDA         PENSACCLA 69KV         63         -0.10108         GRDA         500/dt         64.7021         0         24.7021         0         24.7021         0         0         76.7021         24.7021         0         0         76.7021         24.7021         0         24.7021         0         24.7021         0         24.7021         0         24.7021         0         24.7021         0         24.7021         0         24.7021         0         24.7021         0         24.7021         0         24.7021         0         24.7021         0         24.7021         0         25.702         24.7021         0         25.702         25.702         26.7021	0.00944 0.00203 0.00343 0.00148 0.00298	Redispatch Factor Amount (MW) -0.11052 21
Source         Maximum         Control Increment(MW)         GC         Maximum         Maximum           GRDA         PENSACOLA 69KV'         63         -0.10168 kEPW         NORTHEASTERN STATION 138KV'         Decrement(MW)         GS           GRDA         PENSACOLA 69KV'         63         -0.10168 WFEC         ANADARKO 138KV'         264.7021         GRDA           GRDA         PENSACOLA 69KV'         63         -0.10168 GRDA         BOOMER 69KV         24         GRDA           GRDA         PENSACOLA 69KV'         63         -0.10108 GRDA         BOOMER 69KV         24         GRDA           GRDA         PENSACOLA 69KV         63         -0.10108 GRDA         BROKEN BOW 138KV'         93.6         GRDA           GRDA         PENSACOLA 69KV         63         -0.10108 AEPW         COGENTRIX 345KV'         936.5           GRDA         PENSACOLA 69KV         63         -0.10108 AEPW         COGENTRIX 345KV'         965.5           GRDA         PENSACOLA 69KV         63         -0.10108 AEPW         COGENTRIX 345KV'         965.5           GRDA         PENSACOLA 69KV         63         -0.10108 AEPW         COMANCHE 138KV'         160.0	0.00944 0.00203 0.00343 0.00148 0.00298	Redispatch Factor Amount (MW) -0.11052 21
Source         Increment(MW)         GSF         Area         Sink         Decrement(MW)         GS           GRDA         PENSACOLA 69KV         63         -0.1018         AEPW         NORTHEASTERN STATION 138KV         500         500         500         500         63         -0.1018         AEPW         NORTHEASTERN STATION 138KV         284.7021         500         63         -0.10108         WFE         ANADARKO 138KV         284.7021         63         -0.10108         WFE         Sink         93.6         6         -0.10108         WFE         Sink         93.6         6         -0.10108         WFE         Sink         93.6         6         -0.10108         AEPW         COGENTRIX 345KV         93.6         6         -0.10108         AEPW         COGENTRIX 345KV         965         6         -0.10108	0.00944 0.00203 0.00343 0.00148 0.00298	Factor Amount (MW) -0.11052 21
GRDA         PENSACOLA 69KV         63         -0.10108         WFEC         IANAARKO 138KV         264.7021         (           GRDA         PENSACOLA 69KV         63         -0.10108         GRDA         BOOMER 69KV         24         (         24         (         24         (         36.0         10108         SRDA         PENSACOLA 69KV         93.6         (         37.0         37.6         (         37.6         37.6         (         37.6         37.6         (         37.6         37.6         (         <	0.00203 0.00343 0.00148 0.00298	-0.11052 21
GRDA         PENSACOLA 69KV         63         -0.10108 [GRDA         BOOMER 69KV         24           GRDA         PENSACOLA 69KV         63         -0.10108 [GRDA         BROKEN BOW 138KV         93.6         (           GRDA         PENSACOLA 69KV         63         -0.10108 [MPA         BROKEN BOW 138KV         93.6         (           GRDA         PENSACOLA 69KV         63         -0.10108 [AEPW         COGENTRIX 345KV         96.6         (           GRDA         PENSACOLA 69KV         63         -0.10108 [AEPW         COMANCHE 138KV         160         (           GRDA         PENSACOLA 69KV         63         -0.10108 [AEPW         COMANCHE 69KV         160         (	0.00343 0.00148 0.00298	
GRDA         PENSACOLA 69KV         63         -0.10108/AEPW         COGENTRIX 345KV         965         0           GRDA         PENSACOLA 69KV         63         -0.10108/AEPW         COMANCHE 138KV         160         160           GRDA         PENSACOLA 69KV         63         -0.10108/AEPW         COMANCHE 138KV         160         160         160         160         163         -0.10108/AEPW         COMANCHE 69KV         63         -0.10108/AEPW         COMANCHE 69KV         63         -0.10108/AEPW         COMANCHE 138KV         63         -0.10108/AEPW         -0.10108/AEPW	0.00298	-0.10451 22
GRDA         'PENSACOLA 69KV'         63         -0.10108/AEPW         'COMANCHE 138KV'         160         0           GRDA         'PENSACOLA 69KV'         63         -0.10108/AEPW         'COMANCHE 69KV'         63         0		-0.10256 22 -0.10406 22
	0.00199	-0.10307 22 -0.10307 22
GRDA         'PENSACOLA 69KV'         63         -0.10108         SWPA         'DENISON 138KV'         59.59999         0	0.00199	-0.10307 22 -0.10304 22
GRDA 'PENSACOLA 69KV' 63 -0.10108 SWPA 'EUFAULA 138KV' 51 (	0.00142	-0.1025 22
GRDA 'PENSACOLA 69KV' 63 -0.10108 OKGE 'HORSESHOE LAKE 138KV' 824.4512 0	0.00142	-0.1025 22 -0.10334 22
	0.00227	-0.10335 22 -0.10269 22
GRDA PENSACOLA 69KV' 63 -0.10108 SWPA KEYSTONE DAM 161KV' 150.6 0	0.00367	-0.10475 22
	0.00217	-0.10325 22 -0.10316 22
GRDA 'PENSACOLA 69KV' 63 -0.10108 OKGE 'MUSKOGEE 345KV' 1516 (	0.00213	-0.10321 22
GRDA PENSACOLA 69KV' 63 -0.10108 OKGE MUSTANG 69KV' 106 (	0.00219	-0.10327 22 -0.10327 22
	0.00115	-0.10223 22
GRDA  'PENSACOLA 69KV' 63 -0.10108 AEPW  'OEC 345KV' 469 0	0.00262	-0.1037 22 -0.10397 22
GRDA 'PENSACOLA 69KV' 63 -0.10108 OKGE 'OMPA-KAW 69KV' 19.7 0	0.00262	-0.1037 22
GRDA 'PENSACOLA 69KV' 63 -0.10108 OKGE 'ONE OAK 345KV' 336 0	0.00219	-0.10327 22
GRDA         PENSACOLA 69KV         63         -0.10108/DKGE         REDBUD 345KV         250           GRDA         PENSACOLA 69KV         63         -0.10108/BCW         RIVERSIDE 574TON 138KV         266         6	0.00232	-0.1034 22 -0.10427 22
GRDA 'PENSACOLA 69KV' 63 -0.10108 AEPW 'RVRSIDEG13.8 138KV' 172 (	0.00319	-0.10427 22
	0.00213	-0.10321 22 -0.1032 22
GRDA         'PENSACOLA 69KV'         63         -0.10108  OKGE         'SMITH COGEN 138KV'         120         0	0.00219	-0.10327 22
	0.00245	-0.10353 22 -0.10325 22
GRDA 'PENSACOLA 69KV' 63 -0.10108 AEPW 'SOUTHWESTERN STATION 138KV' 345	0.00202	-0.1031 22
	0.00339	-0.10447 22 -0.10232 22
GRDA 'PENSACOLA 69KV' 63 -0.10108 AEPW WELEETKA 138KV' 84 0	0.00237	-0.10345 22 -0.102 23
GRDA 'PENSACOLA 69KV' 63 -0.10108 AEPW 'ARSENAL HILL 69KV' 15 0	0.00092	-0.102 23
	-0.00297	-0.09811 23 -0.09979 23
GRDA PENSACOLA 69KV 63 -0.10108 SWPA CLARENCE CANNON DAM 69KV 39.4 -4	-0.00043	-0.10065 23
GRDA         PENSACOLA 69KV         63         -0.10108/AEPW         [EASTMAN 138KV         155           GRDA         PENSACOLA 69KV         63         -0.10108/EMDE         ELK RIVER 345KV         46	0.0009	-0.10198 23 -0.10119 23
GRDA 'PENSACOLA 69KV' 63 -0.10108 AEPW 'FITZHUGH 161KV' 126 0	0.00065	-0.10173 23
	-0.00119 0.00086	-0.09989 23 -0.10194 23
GRDA 'PENSACOLA 69KV' 63 -0.10108 GRDA 'GRDA1 161KV' 71.72781	0.0008	-0.10188 23
	0.001	-0.10208 23 -0.10105 23
	-0.00193	-0.09915 23 -0.09909 23
GRDA 'PENSACOLA 69KV' 63 -0.10108 SWPA 'JONESBORO 161KV' 43 -(	-0.00014	-0.10094 23
GRDA 'PENSACOLA 69KV' 63 -0.10108 GRDA 'KERR 161KV' 13.5 -0	-0.00195 0.00089	-0.09913 23 -0.10197 23
GRDA 'PENSACOLA 69KV' 63 -0.10108 AEPW 'L&D13 69KV' 11 0	0.00072	-0.1018 23
	0.00089	-0.10197 23 -0.10191 23
GRDA 'PENSACOLA 69KV' 63 -0.10108 SWPA 'MCCARTNEY 161KV' 100 -0	-0.00181	-0.09927 23
GRDA 'PENSACOLA 69KV' 63 -0.10108 EMDE 'OZARK BEACH 161KV' 16 -(	0.00065	-0.10173 23 -0.09865 23
GRDA 'PENSACOLA 69KV' 63 -0.10108 AEPW 'PIRKEY GENERATION 138KV' 490 0	0.00089	-0.10197 23
GRDA PENSACOLA 69KV 63 -0.10108 GRDA SALINA 161KV 21.03525 -0	0.001	-0.10208 23 -0.09913 23
	-0.0002 -0.00195	-0.10088 23 -0.09913 23
GRDA 'PENSACOLA 69KV' 63 -0.10108 SWPA 'TRUMAN 161KV' 102	-0.0008	-0.10028 23
	0.00099	-0.10207 23 -0.102 23
GRDA PENSACOLA 69KV' 63 -0.10108 AEPW WILKES 345KV' 311 (	0.00091	-0.10199 23
	-0.00506	-0.09602 24 -0.09505 24
GRDA 'PENSACOLA 69KV' 63 -0.10108 EMDE 'LARUSSEL 161KV' 116 -(	-0.00503	-0.09605 24
	-0.00752	-0.09356 25 -0.09293 25
GRDA 'PENSACOLA 69KV' 63 -0.10108 EMDE 'RIVERTON 69KV' 44.84071 -0	-0.00876	-0.09232 25
GRDA 'PENSACOLA 69KV' 63 -0.10108 GRDA 'PENSACOLA 161KV' 11 -(	-0.00741	-0.09367 25 -0.07407 31
GRDA 'PENSACOLA 161KV' 42 -0.02701 AEPW 'NORTHEASTERN STATION 138KV' 500 0	0.00944	-0.03645 63 -0.03068 75
GRDA         PENSACULA ToTKV         422         -0.02701/SWPA         ReFSTUDE DAM TOTKV         150.6         C           GRDA         PENSACULA TOTKV         42         -0.02701/AEPW         RIVERSIDE STATION T38KV         646         0	0.00367	-0.03068 75

RDA	'PENSACOLA 161KV' 'PENSACOLA 161KV'		-0.0270		'RVRSIDEG13.8 138KV' TULSA POWER STATION 138KV'	172	2 0.00319 9 0.00339	-0.0302 -0.0304	
aximum Decrement and Max ctor = Source GSF - Sink GS	imum Increment were determine from the Souce and Sink Op	perating Points in th	e study moo	dels where	limiting facility was identified.				
dispatch Amount = Relief Ar									
	CLAREMORE (CLRAUTO3) 161/69/13.8KV TRANSFORME								
	CLAREMORE (CLRAUTO2) 161/69/13.8KV TRANSFORME From->To	R CKT 2							
	CLAREMORE (CLRAUTO1) 161/69/13.8KV TRANSFORME	R CKT 1							
	CLARAUTO22522CLARAUTO15213307SP 6/1/07 - 10/1/07								
	2007 Summer Peak								
		Aggregate Relief	1						
eservation 1161666	Relief Amount 0.	Amount 7 1	4						
1161667	0.								
		Maximum		Sink Control		Maximum			Aggregate Redispatch
ource Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (M
	'PENSACOLA 69KV'	6			'KEYSTONE DAM 161KV'	150.2			
	'PENSACOLA 69KV' 'PENSACOLA 69KV'	6		3 AEPW 3 OKGE	NORTHEASTERN STATION 138KV AES 161KV	500			
RDA	'PENSACOLA 69KV'	6	3 -0.1014	3 WFEC	'ANADARKO 138KV'	265.8584	1 0.00204	-0.10347	
RDA RDA	'PENSACOLA 69KV' 'PENSACOLA 69KV'	6		3 AEPW 3 SWPA	'ARSENAL HILL 69KV' 'BEAVER 161KV'	15	5 0.00082 3 -0.003	-0.10225 -0.09843	
RDA	'PENSACOLA 69KV'	6	3 -0.1014	3 GRDA	'BOOMER 69KV'	24	0.00345	-0.10488	
	'PENSACOLA 69KV' 'PENSACOLA 69KV'	6		3 SWPA 3 SWPA	BROKEN BOW 138KV BULL SHOALS 161KV	93.4 278.7	4 0.00148 7 -0.0013	-0.10291 -0.10013	
RDA	'PENSACOLA 69KV'	6	3 -0.1014	3 SWPA	'CLARENCE CANNON DAM 69KV'	39.2	-0.00043	-0.101	
	PENSACOLA 69KV	6		3 AEPW	COGENTRIX 345KV	965			
RDA	'PENSACOLA 69KV' 'PENSACOLA 69KV'	6		3 AEPW 3 AEPW	COMANCHE 138KV' COMANCHE 69KV'	160		-0.10343 -0.10344	
RDA	'PENSACOLA 69KV'	6	3 -0.10143	3 SWPA	'DENISON 138KV'	59.40001	0.00197	-0.1034	
RDA RDA	'PENSACOLA 69KV' 'PENSACOLA 69KV'	6		3 AEPW 3 EMDE	'EASTMAN 138KV' 'ELK RIVER 345KV'	155	5 0.0009 5 0.00012	-0.10233 -0.10155	
RDA	'PENSACOLA 69KV'	6	3 -0.10143	3 SWPA	'EUFAULA 138KV'	51	0.00142	-0.10285	
	'PENSACOLA 69KV' 'PENSACOLA 69KV'	6		3 SWPA	'EUFAULA 161KV' 'FITZHUGH 161KV'	69.6 30.99999	6 0.00142 0.00065	-0.10285 -0.10208	
DA	PENSACOLA 69KV	6		3 AEPW	FLINT CREEK 161KV	420	-0.0012	-0.10208	
RDA	'PENSACOLA 69KV'	6	3 -0.1014	3 GRDA	'GRDA1 161KV'	57.61429	0.0008	-0.10223	
	'PENSACOLA 69KV' 'PENSACOLA 69KV'	6		3 GRDA 3 SWPA	'GRDA1 345KV' 'GREERS FERRY 161KV'	93.4		-0.10244 -0.1014	
:DA	'PENSACOLA 69KV'	6	3 -0.1014	3 OKGE	'HORSESHOE LAKE 138KV'	736.832	0.00227	-0.1037	
RDA RDA	'PENSACOLA 69KV' 'PENSACOLA 69KV'	6		3 OKGE 3 WFEC	'HORSESHOE LAKE 69KV' 'HUGO 138KV'	16	6 0.00229 0 0.00162	-0.10372 -0.10305	
	PENSACOLA 69KV	6	3 -0.1014	3 SWPA	'JAMES RIVER 161KV'	159	-0.00194	-0.09949	
	'PENSACOLA 69KV'	6		3 SWPA 3 SWPA	JAMES RIVER 69KV	234.1017		-0.09942 -0.10129	
DA DA	'PENSACOLA 69KV' 'PENSACOLA 69KV'	6			'JONESBORO 161KV' 'KENNETT 69KV'	43	3 -0.00014 2 -0.00016	-0.10129	
!DA	'PENSACOLA 69KV'	6	3 -0.1014	3 GRDA	'KERR 161KV'	13.5	-0.00196	-0.09947	
	'PENSACOLA 69KV' 'PENSACOLA 69KV'	6		3 AEPW 3 AEPW	'KNOXLEE 138KV' 'L&D13 69KV'	284		-0.10232 -0.10215	
RDA	'PENSACOLA 69KV'	6	3 -0.1014	3 AEPW	'LEBROCK 345KV'	365	0.0009	-0.10233	
RDA	PENSACOLA 69KV	6		3 AEPW	'LIEBERMAN 138KV'	125		-0.10226	
	'PENSACOLA 69KV' 'PENSACOLA 69KV'	6		3 SWPA 3 SWPA	'MALDEN 69KV' 'MCCARTNEY 161KV'	100	-0.00018 -0.00182	-0.10125 -0.09961	
RDA	'PENSACOLA 69KV'	6	3 -0.1014	3 OKGE	'MCCLAIN 138KV'	478	0.00217	-0.1036	
RDA RDA	'PENSACOLA 69KV' 'PENSACOLA 69KV'	6		3 WFEC 3 OKGE	'MORLND 138KV' 'MUSKOGEE 345KV'	294.7338	3 0.00209 6 0.00214	-0.10352 -0.10357	
RDA	'PENSACOLA 69KV'	6	3 -0.1014	3 OKGE	'MUSTANG 138KV'	365.5	0.0022	-0.10363	
	PENSACOLA 69KV	6		3 OKGE 3 AEPW	'MUSTANG 69KV' 'NARROWS 69KV'	106		-0.10363	
RDA RDA	'PENSACOLA 69KV' 'PENSACOLA 69KV'	6		3 AEPW	NORTHEASTERN STATION 345KV	22	2 0.00116 0.00263	-0.10259 -0.10406	
RDA	'PENSACOLA 69KV'	6	3 -0.1014	3 AEPW	'OEC 345KV'	519		-0.10433	
	'PENSACOLA 69KV' 'PENSACOLA 69KV'	6		3 OKGE	'OMPA-KAW 69KV' 'OMPA-PONCA CITY 69KV'	19.7 76.33829	0.00264	-0.10407 -0.10407	
DA	'PENSACOLA 69KV'	6	3 -0.1014	3 OKGE	'ONE OAK 345KV'	336	0.0022	-0.10363	
DA DA	'PENSACOLA 69KV' 'PENSACOLA 69KV'	6		3 SWPA 3 EMDE	OZARK 161KV OZARK BEACH 161KV	130.6	6 0.00065 6 -0.00245	-0.10208 -0.09898	
	PENSACOLA 69KV	6	3 -0.1014	3 SWPA	'PARAGOULD 69KV'	5.5		-0.10128	
DA	'PENSACOLA 69KV'	6	3 -0.1014	3 AEPW	'PIRKEY GENERATION 138KV'	475	0.0009	-0.10233	
DA DA	'PENSACOLA 69KV' 'PENSACOLA 69KV'	6		3 SWPA 3 OKGE	'POPLAR BLUFF 69KV' 'REDBUD 345KV'	250	6 -0.00028 0 0.00234	-0.10115 -0.10377	
:DA	'PENSACOLA 69KV'	6	3 -0.1014	3 AEPW	'RIVERSIDE STATION 138KV'	711.9999	0.00321	-0.10464	
	'PENSACOLA 69KV' 'PENSACOLA 69KV'	6		3 SWPA	'ROBERT S. KERR 161KV' 'SALINA 161KV'	314.2 21.6559		-0.10244	
DA	PENSACOLA 69KV 'PENSACOLA 69KV'	6	3 -0.10143	3 OKGE	SEMINOLE 138KV	480.4069	0.00196		
:DA	'PENSACOLA 69KV'	6	3 -0.1014	3 OKGE	SEMINOLE 345KV	996	0.00213	-0.10356	
DA DA	'PENSACOLA 69KV' 'PENSACOLA 69KV'	6		3 SWPA 3 OKGE	SIKESTON 161KV SMITH COGEN 138KV	235		-0.10123 -0.10363	
DA	'PENSACOLA 69KV'	6	3 -0.1014	3 OKGE	'SOONER 138KV'	505	0.00247	-0.1039	
DA DA	'PENSACOLA 69KV' 'PENSACOLA 69KV'	6		3 OKGE 3 SWPA	SOONER 345KV' SOUTHWEST 161KV'	513 222.3152	3 0.00218 2 -0.00196	-0.10361 -0.09947	
DA	'PENSACOLA 69KV'	6	3 -0.10143	3 AEPW	'SOUTHWESTERN STATION 138KV'	355	0.00203	-0.10346	
	'PENSACOLA 69KV' 'PENSACOLA 69KV'	6		3 SWPA 3 AEPW	TRUMAN 161KV TULSA POWER STATION 138KV'	102			
DA	'PENSACOLA 69KV'	6	3 -0.10143	3 SWPA	'WEBBERS FALLS 161KV'	259	0.00124	-0.10267	
	'PENSACOLA 69KV'	6	3 -0.10143	3 AEPW 3 AEPW	WELEETKA 138KV' WELSH 345KV'	70	0.00238	-0.10381	
DA	'PENSACOLA 69KV' 'PENSACOLA 69KV'	6		3 AEPW 3 AEPW	WELSH 345KV WILKES 138KV	990 415.2284		-0.10243 -0.10236	
DA	'PENSACOLA 69KV'	6	3 -0.10143	3 AEPW	WILKES 345KV	311	0.00091	-0.10234	
	'PENSACOLA 69KV' 'PENSACOLA 69KV'	6		3 EMDE 3 SWPA	'ASBURY 161KV' 'CARTHAGE 69KV'	191		-0.09632 -0.09537	
DA	'PENSACOLA 69KV'	6	3 -0.10143	3 GRDA	'KERR 115KV'	13.5	-0.00755	-0.09388	
	PENSACOLA 69KV PENSACOLA 69KV	6		3 EMDE	'LARUSSEL 161KV' 'RIVERTON 161KV'	116			
DA	'PENSACOLA 69KV'	6	3 -0.1014	3 EMDE	'RIVERTON 69KV'	45.27979	-0.00881	-0.09262	
DA	'PENSACOLA 69KV'	6	3 -0.1014	3 EMDE	'STATE LINE 161KV'	503	-0.00745	-0.09398	
DA DA	'PENSACOLA 69KV' 'PENSACOLA 161KV'	6		3 GRDA 1 AEPW	'PENSACOLA 161KV' 'NORTHEASTERN STATION 138KV'	11		-0.07432 -0.03658	
:DA	'PENSACOLA 161KV'	4	2 -0.0271 <sup>-</sup>	1 GRDA	'BOOMER 69KV'	24	0.00345	-0.03056	
	'PENSACOLA 161KV' 'PENSACOLA 161KV'	4		1 SWPA 1 AEPW	'KEYSTONE DAM 161KV' 'TULSA POWER STATION 138KV'	150.2		-0.03079 -0.03051	
DA	PENSACOLA 161KV	4.	2 -0.0271 <sup>-</sup>	1 AEPW	COGENTRIX 345KV	965		-0.03051	
	'PENSACOLA 161KV'	4:	2 -0.0271	1 AEPW	'OEC 345KV'	519	0.0029	-0.03001	
	'PENSACOLA 161KV'		2 -0.0271		'RIVERSIDE STATION 138KV'	711.9999	0.00321		

 Upgrade:
 CLAREMORE (CLRAUTO3) 161/69/13.8KV TRANSFORMER CKT 3

 Limiting Facility:
 CLAREMORE (CLRAUTO2) 161/69/13.8KV TRANSFORMER CKT 2

 Direction:
 From->To

 Line Outage:
 CLAREMORE (CLRAUTO1) 161/69/13.8KV TRANSFORMER CKT 1

 Diovgate:
 CLAREMORE (CLRAUTO1) 161/69/13.8KV TRANSFORMER CKT 1

 Date Redispatch Needed:
 Starting 2008 6/1 - 10/1 Until EOC

	2008 Summer Peak	Aggregate Relief							
eservation 116166	Relief Amount	Amount 3 2.7							
116166		3 2.7							
				Sink					Aggregate
	_	Maximum		Control		Maximum		_	Redispatch
urce Control Area	Source 'PENSACOLA 69KV'	Increment(MW) 63	GSF -0.10142	Area	Sink 'NORTHEASTERN STATION 138KV'	Decrement(MW) 500	GSF 0.00947	Factor -0.11089	Amount (MV
RDA	PENSACOLA 69KV	63	-0.10142	GRDA	BOOMER 69KV	24	0.00344	-0.10486	
RDA	'PENSACOLA 69KV'	63	-0.10142	AEPW	COGENTRIX 345KV	965	0.00299	-0.10441	
RDA	'PENSACOLA 69KV'	63	-0.10142	SWPA	'KEYSTONE DAM 161KV'	150.6	0.00368	-0.1051	
RDA	'PENSACOLA 69KV'	63		AEPW	'OEC 345KV'	469	0.0029	-0.10432	
RDA RDA	'PENSACOLA 69KV' 'PENSACOLA 69KV'	63			'RIVERSIDE STATION 138KV' 'RVRSIDEG13.8 138KV'	646	0.00321	-0.10463 -0.10463	
RDA	PENSACOLA 69KV	63			TULSA POWER STATION 138KV	259	0.00321	-0.10482	
RDA	PENSACOLA 69KV	63			AES 161KV	320	0.00093	-0.10235	
RDA	'PENSACOLA 69KV'	63			'ANADARKO 138KV'	264.7021	0.00203	-0.10345	
RDA	'PENSACOLA 69KV'	63	-0.10142	AEPW	'ARSENAL HILL 69KV'	15	0.00082	-0.10224	
RDA RDA	'PENSACOLA 69KV' 'PENSACOLA 69KV'	63			BROKEN BOW 138KV' CLARENCE CANNON DAM 69KV'	93.6	0.00148	-0.1029	
RDA	PENSACOLA 69KV	63			COMANCHE 138KV	39.4	-0.00043	-0.10099	
RDA	'PENSACOLA 69KV'	63			COMANCHE 69KV	63	0.00133	-0.10341	
RDA	'PENSACOLA 69KV'	63	-0.10142	SWPA	'DENISON 138KV'	59.59999	0.00197	-0.10339	
RDA	'PENSACOLA 69KV'	63			'EASTMAN 138KV'	155	0.0009	-0.10232	
RDA	'PENSACOLA 69KV'	63			'ELK RIVER 345KV'	46	0.00011	-0.10153	
RDA	PENSACOLA 69KV	63			'EUFAULA 138KV'	51 69.8	0.00142	-0.10284 -0.10284	
RDA RDA	'PENSACOLA 69KV' 'PENSACOLA 69KV'	63	-0.10142		'EUFAULA 161KV' 'FITZHUGH 161KV'	69.8	0.00142	-0.10284	1
RDA	PENSACOLA 69KV	63			'FULTON 115KV'	24.99999	0.00086	-0.10207	
RDA	'PENSACOLA 69KV'	63	-0.10142	GRDA	'GRDA1 161KV'	71.72781	0.0008	-0.10222	
RDA	'PENSACOLA 69KV'	63	-0.10142	GRDA	'GRDA1 345KV'	100	0.00101	-0.10243	-
RDA	PENSACOLA 69KV	63			'GREERS FERRY 161KV'	93.6	-0.00003	-0.10139	
RDA RDA	'PENSACOLA 69KV' 'PENSACOLA 69KV'	63		OKGE	'HORSESHOE LAKE 138KV' 'HORSESHOE LAKE 69KV'	824.4512	0.00226	-0.10368	
RDA	PENSACOLA 69KV	63			HUGO 138KV	450	0.00228	-0.1037	1
RDA	PENSACOLA 69KV	63	-0.10142		JONESBORO 161KV	43	-0.00014	-0.10128	
RDA	'PENSACOLA 69KV'	63			'KNOXLEE 138KV'	284	0.00089	-0.10231	
RDA	'PENSACOLA 69KV'	63	-0.10142	AEPW	'L&D13 69KV'	11	0.00072	-0.10214	
RDA	'PENSACOLA 69KV'	63			'LEBROCK 345KV'	315	0.0009	-0.10232	
RDA	PENSACOLA 69KV	63	-0.10142	AEPW	'LIEBERMAN 138KV'	125	0.00083	-0.10225	
RDA RDA	'PENSACOLA 69KV' 'PENSACOLA 69KV'	63	-0.10142	WFEC	MCCLAIN 138KV' MORLND 138KV'	478 312.5645	0.00218	-0.1036	
RDA	PENSACOLA 69KV	63			MUSKOGEE 345KV	312.3043	0.00208	-0.10356	
RDA	'PENSACOLA 69KV'	63			'MUSTANG 138KV'	365.5	0.0022	-0.10362	
RDA	'PENSACOLA 69KV'	63	-0.10142	OKGE	'MUSTANG 69KV'	106	0.0022	-0.10362	
RDA	'PENSACOLA 69KV'	63			'NARROWS 69KV'	22	0.00116	-0.10258	
RDA	'PENSACOLA 69KV'	63		AEPW	'NORTHEASTERN STATION 345KV'	645	0.00263	-0.10405	
RDA	PENSACOLA 69KV	63			OMPA-KAW 69KV	19.7	0.00263	-0.10405 -0.10405	
RDA RDA	'PENSACOLA 69KV' 'PENSACOLA 69KV'	63	-0.10142		OMPA-PONCA CITY 69KV' ONE OAK 345KV'	82.00623	0.00263	-0.10405	
RDA	PENSACOLA 69KV	63			ORE OAK 345KV	150.6	0.00022	-0.10302	
RDA	'PENSACOLA 69KV'	63		AEPW	'PIRKEY GENERATION 138KV'	490	0.00089	-0.10231	
RDA	'PENSACOLA 69KV'	63			'REDBUD 345KV'	250	0.00233	-0.10375	
RDA	'PENSACOLA 69KV'	63	-0.10142		'ROBERT S. KERR 161KV'	314.8	0.001	-0.10242	
RDA RDA	PENSACOLA 69KV	63	-0.10142	OKGE	SEMINOLE 138KV SEMINOLE 345KV	479.6967 996	0.00214	-0.10356 -0.10355	
RDA	'PENSACOLA 69KV' 'PENSACOLA 69KV'	63			SEMINOLE 345KV SIKESTON 161KV	235	-0.000213	-0.10355	
RDA	PENSACOLA 69KV	63			SMITH COGEN 138KV	120	0.0002	-0.10362	
RDA	'PENSACOLA 69KV'	63			'SOONER 138KV'	505	0.00246	-0.10388	
RDA	'PENSACOLA 69KV'	63			SOONER 345KV	513	0.00217	-0.10359	
RDA	'PENSACOLA 69KV'	63			'SOUTHWESTERN STATION 138KV'	345	0.00202	-0.10344	
RDA RDA	'PENSACOLA 69KV' 'PENSACOLA 69KV'	63			TRUMAN 161KV WEBBERS FALLS 161KV	102	-0.0008	-0.10062	-
RDA	PENSACOLA 69KV	63			WEBERS FALLS 161KV	39.2	0.00124	-0.10266	
RDA	PENSACOLA 69KV	63			WELSH 345KV	1044	0.001	-0.10242	
:DA	'PENSACOLA 69KV'	63	-0.10142	AEPW	'WILKES 138KV'	416.6831	0.00093	-0.10235	
RDA	'PENSACOLA 69KV'	63			WILKES 345KV	311	0.00091	-0.10233	
RDA	PENSACOLA 69KV	63			BEAVER 161KV BUIL SHOALS 161KV	136.6923	-0.00298	-0.09844	
RDA RDA	'PENSACOLA 69KV' 'PENSACOLA 69KV'	63			'BULL SHOALS 161KV' 'FLINT CREEK 161KV'	279.4 428	-0.0013 -0.00119	-0.10012 -0.10023	-
RDA	PENSACOLA 69KV	63		SWPA	JAMES RIVER 161KV	428	-0.00119	-0.10023	1
IDA	PENSACOLA 69KV	63			JAMES RIVER 69KV	233.8042	-0.002	-0.09942	
DA	'PENSACOLA 69KV'	63	-0.10142	GRDA	'KERR 161KV'	13.5	-0.00195	-0.09947	
:DA	'PENSACOLA 69KV'	63			'MCCARTNEY 161KV'	100	-0.00181	-0.09961	
DA	PENSACOLA 69KV	63			OZARK BEACH 161KV	16	-0.00244	-0.09898	
IDA IDA	'PENSACOLA 69KV' 'PENSACOLA 69KV'	63			'SALINA 161KV' 'SOUTHWEST 161KV'	21.03525 242.4351	-0.00195 -0.00195	-0.09947 -0.09947	
DA	PENSACOLA 69KV	63		EMDF	ASBURY 161KV	242.4351	-0.00195	-0.09947	
DA	'PENSACOLA 69KV'	63			CARTHAGE 69KV	32	-0.00605	-0.09537	
RDA	'PENSACOLA 69KV'	63	-0.10142	GRDA	'KERR 115KV'	13.5	-0.00755	-0.09387	
RDA	'PENSACOLA 69KV'	63	-0.10142	EMDE	'LARUSSEL 161KV'	116	-0.00504	-0.09638	
RDA	PENSACOLA 69KV	63	-0.10142	EMDE	STATE LINE 161KV	503	-0.00743	-0.09399	
RDA RDA	'PENSACOLA 69KV' 'PENSACOLA 69KV'	63			'RIVERTON 161KV' 'RIVERTON 69KV'	195.454 44.84071	-0.00818 -0.00879	-0.09324 -0.09263	
RDA	PENSACOLA 69KV PENSACOLA 161KV	63			NORTHEASTERN STATION 138KV	44.84071	-0.00879	-0.09263	
RDA	PENSACOLA 161KV	42		SWPA	KEYSTONE DAM 161KV	150.6	0.00368	-0.03057	
DA	'PENSACOLA 161KV'	42	-0.0271	AEPW	'TULSA POWER STATION 138KV'	259	0.0034	-0.0305	
24	'PENSACOLA 161KV'	42	-0.0271	AEPW	'COGENTRIX 345KV'	965	0.00299	-0.03009	
DA									
RDA RDA RDA	'PENSACOLA 161KV' 'PENSACOLA 161KV'	42		AEPW AEPW	'RIVERSIDE STATION 138KV' 'RVRSIDEG13.8 138KV'	646	0.00321	-0.03031 -0.03031	

 [GRDA
 [PENSACOLA 161KV'
 42
 -0.0271 [AEPW
 [OEC 345KV'

 Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified. Factor = Source GSF - Sink GSF
 Sink GSF

 Redispatch Amount = Relief Amount / Factor
 Source GSF - Sink GSF
 Source GSF - Sink GSF

Upgrade:	Evans - Grant - Chisolm Rebuild and Conversion Project								
Limiting Facility:	17TH STREET (17TH 4X) 138/69/11.295KV TRANSFORMER	R CKT 1							
Direction:	From->To								
Line Outage:	CHISHOLM (CHISLM1X) 138/69/13.2KV TRANSFORMER CH	(T 1							
Flowgate:	17TTH4X1421CHISISLM1X4212208SP								
Date Redispatch Needed:	Starting 2008 6/1 - 10/1 Until EOC								
Season Flowgate Identified:	2008 Summer Peak								
		Aggregate Relief	]						
Reservation	Relief Amount	Amount							
1161506	1.5	2.9							
1161997	1.5	2.9							
				Sink					Aggregate
		Maximum		Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	WERE	'CITY OF AUGUSTA 69KV'	24	0.00755	-0.09954	30
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	WERE	'CLR_1 .575 34KV'	23.001	0.00455	-0.09654	4 30
WERE	'GILL ENERGY CENTER 69KV'	118			'ELK RIVER 345KV'	150	0.00455	-0.09654	
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	WERE	CHANUTE 69KV	55.637	0.00234	-0.09433	31
WERE	'GILL ENERGY CENTER 69KV'	118			'CITY OF BURLINGTON 69KV'	34.061	0.00374	-0.09573	
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	WERE	'CITY OF ERIE 69KV'	23.374	0.00234	-0.09433	31
WERE	'GILL ENERGY CENTER 69KV'	118			'CITY OF IOLA 69KV'	24.471	0.00203	-0.09402	31
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.98	0.00374	-0.09573	31 31

				0.40 F	1150 ISU01				
WERE	'GILL ENERGY CENTER 69KV'	118			'AES 161KV'	320	-0.00012	-0.09187	32 32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		'ARIES 161KV'	300	0.00046	-0.09245	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		'ARSENAL HILL 69KV'	11.21387	-0.00032	-0.09167	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	EMDE	ASBURY 161KV	191	0.00096	-0.09295	32
WERE	'GILL ENERGY CENTER 69KV'		-0.09199		BULL CREEK 161KV	308	0.00059	-0.09258	32
WERE	GILL ENERGY CENTER 69KV	118	-0.09199		CITY OF HIGGINSVILLE 69KV	35	0.00035	-0.09234	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		'CLIFTON 115KV'	58.49084	-0.00132	-0.09067	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	AEPW	COGENTRIX 345KV	200	-0.00016	-0.09183	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	AEPW	'EASTMAN 138KV'	355	-0.00035	-0.09164	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		'FITZHUGH 161KV'	126	-0.00008	-0.09191	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	AEPW	'FLINT CREEK 161KV'	428	0.00025	-0.09224	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		'FULTON 115KV'	24.99999	-0.00033	-0.09166	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	MIPU	'GREENWOOD 161KV'	169.885	0.00045	-0.09244	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		'HAWTHORN 161KV'	769	0.00033	-0.09232	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		'HORSESHOE LAKE 138KV'	851.5	-0.0012	-0.09079	32
WERE	'GILL ENERGY CENTER 69KV'	118			'HORSESHOE LAKE 69KV'	16	-0.00115	-0.09084	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		'IATAN 345KV'	396	0.00005	-0.09204	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		'JEFFREY ENERGY CENTER 230KV'	470	-0.00081	-0.09118	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		'JEFFREY ENERGY CENTER 345KV'	940	-0.00081	-0.09118	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		'KNOXLEE 138KV'	225	-0.00035	-0.09164	32
WERE	'GILL ENERGY CENTER 69KV'	118			'L&D13 69KV'	11	-0.00008	-0.09191	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		'LACYGNE UNIT 345KV'	958	0.00139	-0.09338	32
WERE	'GILL ENERGY CENTER 69KV'	118			'LAKE ROAD 161KV'	35	0.00008	-0.09207	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		'LAKE ROAD 34KV'	92	0.00008	-0.09207	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		'LANG 7 345 345KV'	310	-0.00113	-0.09086	32
WERE	'GILL ENERGY CENTER 69KV'	118			'LARUSSEL 161KV'	116	0.00068	-0.09267	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		'LAWRENCE ENERGY CENTER 230KV'	251.3459	-0.00024	-0.09175	32
WERE	'GILL ENERGY CENTER 69KV'	118			'LEBROCK 345KV'	465	-0.00035	-0.09164	32
WERE	'GILL ENERGY CENTER 69KV' 'GILL ENERGY CENTER 69KV'	118	-0.09199		'LIEBERMAN 138KV'	73.99999	-0.00032	-0.09167	32
WERE		118	-0.09199		'MARSHALL 161KV'	15	0.00028	-0.09227	32
WERE	'GILL ENERGY CENTER 69KV'	118			'MCCLAIN 138KV'	478	-0.00128	-0.09071	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	KACP	'MONTROSE 161KV'	352.0817	0.00043	-0.09242	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		'MUSKOGEE 161KV'	166	-0.00012	-0.09187	32
WERE	'GILL ENERGY CENTER 69KV'	118			'MUSKOGEE 345KV'	1516	-0.00018	-0.09181	32
WERE	'GILL ENERGY CENTER 69KV'	118			'MUSTANG 138KV'	365.5	-0.00131	-0.09068	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		'MUSTANG 69KV'	106	-0.00132	-0.09067	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	AEPW	'NARROWS 69KV'	22	-0.00046	-0.09153	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		'NEARMAN 161KV'	77	0.00035	-0.09234	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	KACY	'NEARMAN 20KV'	220	0.00035	-0.09234	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	AEPW	'NORTHEASTERN STATION 138KV'	500	0.00011	-0.0921	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	AEPW	'NORTHEASTERN STATION 345KV'	645	0.00033	-0.09232	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		'OEC 345KV'	369	-0.00003	-0.09196	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		OZARK BEACH 161KV	16	0.00044	-0.09243	32
WERE	GILL ENERGY CENTER 69KV	118	-0.09199		'PAOLA COMBUSTION TURBINES 161KV'	63.0542	0.00087	-0.09286	
WERE	'GILL ENERGY CENTER 69KV' 'GILL ENERGY CENTER 69KV'	118	-0.09199		'PIRKEY GENERATION 138KV'	490	-0.00035	-0.09164	32 32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		'QUINDARO 161KV'	135.2048	0.00035	-0.09234	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	KACY	'QUINDARO 69KV'	140	0.00035	-0.09234	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		'REDBUD 345KV'	250	-0.00114	-0.09085	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		'RIVERSIDE STATION 138KV'	640	-0.00016	-0.09183	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		'RIVERTON 161KV'	88.89612	0.00079	-0.09278	32 32
WERE	'GILL ENERGY CENTER 69KV'	118		EMDE	'RIVERTON 69KV'	41.92348	0.00074	-0.09273	32
WERE	GILL ENERGY CENTER 69KV	118	-0.09199		SEMINOLE 138KV	485.0313	-0.00111	-0.09088	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		SEMINOLE 345KV	996	-0.00113	-0.09086	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		SIBLEY 161KV	231.6823	0.00035	-0.09234	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		SIBLEY 69KV	45.99999	0.00034	-0.09233	32 32
WERE	'GILL ENERGY CENTER 69KV'	118		OKGE	'SMITH COGEN 138KV'	120	-0.0013	-0.09069	32
WERE	GILL ENERGY CENTER 69KV	118	-0.09199	MIPLI	SOUTH HARPER 161KV	315	0.0005	-0.09249	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		'STATE LINE 161KV'	503	0.00075	-0.09274	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	WERE	TECUMSEH ENERGY CENTER 115KV	108	-0.00018	-0.09181	32
WERE	GILL ENERGY CENTER 69KV	118	-0.09199		TINKER 5G 138KV	31.99805	-0.00122	-0.09181	32 32
WERE	GILL ENERGY CENTER 69KV	118			TULSA POWER STATION 138KV	186	-0.00122	-0.09186	32
WERE	GILL ENERGY CENTER 69KV	118	-0.09199		WELEETKA 138KV	84	-0.00054	-0.09180	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		WELSH 345KV	1044	-0.0004	-0.09159	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	AEPW	WILKES 138KV	350.9901	-0.00037	-0.09162	32
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	AEPW	WILKES 345KV	311	-0.00036	-0.09163	32
WERE	'GILL ENERGY CENTER 69KV'	118			'ABILENE ENERGY CENTER 115KV'	40	-0.00188	-0.09011	33
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		COMANCHE 138KV	160	-0.00142	-0.09057	33
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		COMANCHE 69KV	63	-0.00142	-0.09058	33
WERE	'GILL ENERGY CENTER 69KV'	118			HUTCHINSON ENERGY CENTER 115KV	191.3125	-0.00406	-0.08793	33
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	WERF	'KNOLL 3 115 115KV'	75	-0.00409	-0.0879	33
WERE	'GILL ENERGY CENTER 69KV'	118			'OMPA-KAW 69KV'	22,98392	-0.00403	-0.08879	33
WERE	GILL ENERGY CENTER 69KV	118			'OMPA-PONCA CITY 69KV'	157.2592	-0.0032	-0.08879	33
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		ONE OAK 345KV	300	-0.00145	-0.09054	33
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	WERE	'SMOKEY HILLS 34KV'	152	-0.00292	-0.08907	33
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		SOONER 138KV	505	-0.00232	-0.08971	33
WERE	GILL ENERGY CENTER 69KV	118	-0.09199		SOONER 345KV	513	-0.00192	-0.09007	33
WERE	'GILL ENERGY CENTER 69KV'	118			SOUTHWESTERN STATION 138KV	257	-0.00132	-0.09058	33
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		'A. M. MULLERGREN GENERATOR 115KV'	63	-0.00141	-0.08622	34
WERE	GILL ENERGY CENTER 69KV	118	-0.09199		CITY OF WINFIELD 69KV	26.77	-0.00965	-0.08234	36
WERE	'GILL ENERGY CENTER 69KV'	118		WEPL	'GRAY COUNTY WIND FARM 115KV'	60	-0.00303	-0.08258	36
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		JUDSON LARGE 115KV	106.7974	-0.00946	-0.08253	36
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199		'EVANS ENERGY CENTER 138KV'	305	-0.00340	-0.07488	39
WERE	'GILL ENERGY CENTER 138KV'	84.99999		WERE	CITY OF AUGUSTA 69KV	24	0.00755	-0.07133	41
WERE	GILL ENERGY CENTER 138KV	84.99999		WERE	'CLR_1 .575 34KV'	23.001	0.00755	-0.06833	41
WERE	GILL ENERGY CENTER 138KV	84.99999	-0.06378	EMDE	'ELK RIVER 345KV'	150	0.00455	-0.06833	43
WERE	GILL ENERGY CENTER 138KV	84.99999	-0.06378	WERE	CITY OF BURLINGTON 69KV	34.061	0.00433	-0.06752	45
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.98	0.00374	-0.06752	44
WERE	GILL ENERGY CENTER 138KV	84.99999	-0.06378	EMDE	ASBURY 161KV	191	0.00096	-0.06474	45
WERE	GILL ENERGY CENTER 138KV	84.99999	-0.06378	WERE	CHANUTE 69KV	55.637	0.00234	-0.06612	45
WERE	GILL ENERGY CENTER 138KV	84.99999	-0.06378	WERE	CITY OF ERIE 69KV	23.374	0.00234	-0.06612	45
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378		CITY OF IOLA 69KV	24.471	0.00203	-0.06581	45
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378		'LACYGNE UNIT 345KV'	958	0.00139	-0.06517	45
		51.00000	2.30070			550	2.201.00		10

 WERE
 |GILL ENERGY CENTER 138KV'
 84.99999
 -0.06378 [KACP
 LACYGNE UNIT 345KV

 Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.
 Factor = Source GSF - Sink GSF
 Redispatch Amount - Relief Amount / Factor

Upgrade: Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed:	Evans - Grant - Chisolm Rebuild and Conversion Project CHISHOLM (CHISLM1X) 138/69/13.2KV TRANSFORMER CF From->To EVANS ENERGY CENTER NORTH - SEDGWICK COUNTY I CHIISLM1X1421570405706512207SP 6/1/07 - 10/107		138KV CKT 1					
Season Flowgate Identified:	2007 Summer Peak		-					
		Aggregate Relief						
Reservation	Relief Amount	Amount	4					
116199	7 0.6	0.6		1				
			Sink					Aggregate
		Maximum	Control		Maximum			Redispatch
Source Control Area			GSF Area					Amount (MW)
WERE	'GILL ENERGY CENTER 69KV'	118		'AES 161KV'	320	-0.00012		
WERE	'GILL ENERGY CENTER 69KV'	118		'ARIES 161KV'	300	0.00039		
WERE	'GILL ENERGY CENTER 69KV'	118	-0.05046 AEPW	'ARSENAL HILL 69KV'	15	-0.00015	-0.05031	11
WERE	'GILL ENERGY CENTER 69KV'	118	-0.05046 EMDE	'ASBURY 161KV'	191	0.00027	-0.05073	11
WERE	'GILL ENERGY CENTER 69KV'	118	-0.05046 KACP	'BULL CREEK 161KV'	308	0.00045	-0.05091	11
WERE	'GILL ENERGY CENTER 69KV'	118	-0.05046 WERE	'CHANUTE 69KV'	56.723	0.00083	-0.05129	11
WERE	'GILL ENERGY CENTER 69KV'	118	-0.05046 WERE	'CITY OF AUGUSTA 69KV'	24	0.00103	-0.05149	11
WERE	'GILL ENERGY CENTER 69KV'	118	-0.05046 WERE	'CITY OF BURLINGTON 69KV'	34.753	0.00168	-0.05214	11
WERE	'GILL ENERGY CENTER 69KV'	118	-0.05046 WERE	'CITY OF ERIE 69KV'	23.27	0.00083	-0.05129	11

DBI         DBI         DBI         DESCRIPTION         DBI         DESCRIPTION         DBI         DESCRIPTION         DBI         DESCRIPTION         DBI         DBI        DBI        DBI <th< td=""><td>WERE</td><td>'GILL ENERGY CENTER 69KV'</td><td>118</td><td>-0.05046 WERE</td><td>'CITY OF FREDONIA 69KV'</td><td>3.895 0.00099 -0.05145 11</td></th<>	WERE	'GILL ENERGY CENTER 69KV'	118	-0.05046 WERE	'CITY OF FREDONIA 69KV'	3.895 0.00099 -0.05145 11
		'GILL ENERGY CENTER 69KV'			'CITY OF GIRARD 69KV'	
		'GILL ENERGY CENTER 69KV'	118		CITY OF HIGGINSVILLE 69KV	
BID         BIL         Description         First         Second         Appendix         Appendi	WERE	'GILL ENERGY CENTER 69KV'	118	-0.05046 WERE	'CITY OF IOLA 69KV'	24.267 0.00071 -0.05117 1
BID         BIL         Description         First         Second         Appendix         Appendi	WERE	'GILL ENERGY CENTER 69KV'	118	-0.05046 WERE	CITY OF NEODESHA 69KV	4.494 0.00083 -0.05129 11
DBM         Cold DBMO PURPHS BOX         Dial A SAMUE         Dial A SAMUE <thdial a="" samue<="" t<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td></thdial>						
DEC.         DLL MEDIC CONTR. DOV.         DATA         CONTR. CONTR. DOV.         DATA         DATA <thdata< th="">         DATA         <thdata< th=""></thdata<></thdata<>	WERE	GILL ENERGY CENTER 69KV		-0.05046 WERE	CLP 1 575 34KV	17.0034 0.00092 -0.05138 11
Bits         Due Besty Centre BeV         111         3.000         PMP         COMPARE JANK         Appendix		CILL ENERGY CENTER CORV				
DEL         DEL <thdel< th=""> <thdel< th=""> <thdel< th=""></thdel<></thdel<></thdel<>		GILL ENERGY CENTER 69KV			COFFET COUNTTINU. 2 SHARPE 69KV	
Obs.         Data         Desc.         Data         Sec.         Desc.         Desc. <thdesc.< th=""> <thdesc.< th=""> <thdesc.<< td=""><td></td><td></td><td></td><td></td><td></td><td></td></thdesc.<<></thdesc.<></thdesc.<>						
NUME         OLL MERCY CONTR BAY         111         2.000 (2007)         111         2.000 (2007)         111           VERE         OLL MERCY CONTR BAY         114         2.000 (2007)         111         11000 (2007)         110000 (200						
NEEE         DLL BEDRO CENTL BOY         INT CORES PAY         INT CORES P	WERE	'GILL ENERGY CENTER 69KV'	118	-0.05046 EMDE	'ELK RIVER 345KV'	150 0.00092 -0.05138 11
NEW         DitL         DitL <thditl< th="">         DitL         DitL         D</thditl<>	WERE	'GILL ENERGY CENTER 69KV'	118	-0.05046 AEPW	'FITZHUGH 161KV'	30.99999 -0.00009 -0.05037 11
NEW         DitL         DitL <thditl< th="">         DitL         DitL         D</thditl<>	WERE	GILL ENERGY CENTER 69KV	118			
DESE         SELEBOY CATE BY         111         COMPACT         PR0         Sound         Log         Log <thlog< th="">         Log         Log</thlog<>	WERE	GILL ENERGY CENTER 69KV	118	-0.05046 MIPU	GREENWOOD 161KV	232 0.00038 -0.05084 11
NUMBER         GLU DEBY CUTTR BAY         110         2000         Control         110         2000		GILL ENERGY CENTER 69KV		-0.05046 KACP	HAWTHORN 161KV	
Site         GL LEBENG CERTE BOY         111         Comparison         Comparison<						
UNDER         OLD DESCRIPTION BOV         1118         COMPART         PERFORMANCE         PEEFE         OUTDITION         PEEFE		GILL ENERGY CENTER 69KV		-0.05040 KACP		
OPE         Obj. DepCr On The Bary         1110         -0.0000 (17)         PMODE TO MARK 10000 (17)         -0.00000 (17)         -0.0000		GILL ENERGY CENTER 69RV			JEFFREY ENERGY CENTER 230KV	
DREE         GLI. DENGY CATTRE 6897         TH         G. SOSS         G		'GILL ENERGY CENTER 69KV'		-0.05046 WERE	'JEFFREY ENERGY CENTER 345KV'	940 0.00009 -0.05055 11
Displan         Object Name         First of accession         Second S		'GILL ENERGY CENTER 69KV'	118	-0.05046 AEPW	'KNOXLEE 138KV'	252.8508 -0.00017 -0.05029 11
WEEE         OLL LENGY CONTR. 689/         IT III.         Social UPU         Less No.5         IT III.         Social UPU         It IIII.         Social UPU         It III.         Social UPU         It III.         Social UPU         It IIII.         Social UPU         It IIII.         Social UPU         It III.         Social UPU         It IIII.         Social UPU         It IIII.	WERE	'GILL ENERGY CENTER 69KV'	118	-0.05046 AEPW	'L&D13 69KV'	11 -0.0001 -0.05036 11
WEEE         OLL LENGY CONTR. 689/         IT III.         Social UPU         Less No.5         IT III.         Social UPU         It IIII.         Social UPU         It III.         Social UPU         It III.         Social UPU         It IIII.         Social UPU         It IIII.         Social UPU         It III.         Social UPU         It IIII.         Social UPU         It IIII.	WERE	'GILL ENERGY CENTER 69KV'	118	-0.05046 KACP	'LACYGNE UNIT 345KV'	958 0.00072 -0.05118 11
URLE         Disk Der Chrite Boy         Int B         Dask Day A         Disk Day A <thdisk a<="" day="" th="">         Disk Day A         Disk Day A</thdisk>	WERE	GILL ENERGY CENTER 69KV	118	-0.05046 MIPU	LAKE ROAD 161KV	35 0.00022 -0.05068 11
OPEC         OLL DENCY CHITE BOY         111         40000         DEC         AURISEL UNY         115         40000         45000 <td></td> <td>CILL ENERGY CENTER 60KV</td> <td></td> <td></td> <td></td> <td></td>		CILL ENERGY CENTER 60KV				
ORDER         OLL BERKOY CENTRE BRAY         Intel Access DRFK         DARENCE DRRFK DRAY         DER DR         DORDER         DARENCE DRRFK DRAY         DER DR         DORDER         DARENCE DRRFK DRAY         DER DR         DORDER         DARENCE DRRFK DRAY         DER DR         DARENCE DRAY         DER DR         DARENCE DRRFK DRAY         DER DR         DARENCE DRAY         DER DR         DARENCE DRAY         DER DR         DARENCE DRAY         DER DR         DARENCE DRAY         DARENCE DRAY         DARENCE DRAY		GILL ENERGY CENTER CORV		-0.03040 MIFU		400 5474 0.00049 0.05004
WEEK         ULL DESCY CHITS (SW)         118         45552         677         45582         118           WEEK         ULL DESCY CHITS (SW)         118         45552         4574         45083         118           WEEK         ULL DESCY CHITS (SW)         118         45552         45574         118         45526         45574         118         45526         45584         118         45526         45584         118         45526         45584         118         45526         45584         118         45526         45584         118         45526         45584         118         45526         45584         118         45526         45794         455774         118         45526         45794         118         45526         45794         118         45526         45794         118         45526         45794         118         45526         45794         118         45526         45794         118         45526         45794         118         45526         45794         45114         118         45526         45794         45114         118         45526         45794         45114         45526         45596         118         45526         45596         118         45526						100.5474 0.00016 -0.05064 11
WHEE         DLL INNOV CENTRE SNV         1116         doesde JAPY         LIBERNAN LIBRY         111         dooesde JAPY         LIBERNAN LIBRY						
INSPEC         DEL DESCY CANTE 66V         116         ADDE (ALL DESCY CANTE 66V)         315         D0002         ADDE (ALL DESCY CANTE 66V)         116         COUNT		GILL ENERGY CENTER 69KV		-0.05046 AEPW	'LEBRUCK 345KV'	515 -0.00017 -0.05029 11
WREE         Disk Dergy Charte Boy         116         0.0000 (0.000)		'GILL ENERGY CENTER 69KV'				
WREE         Disk Dergy Charte Boy         116         0.0000 (0.000)		'GILL ENERGY CENTER 69KV'		-0.05046 KACP	'MARSHALL 161KV'	
WREE         BLE BERGY CHITE BWY         118         40000 (0000)         MUSE CER SWY         119         40000 (0000)         MUSE CER SWY         110         40000 (0000)         40000 (0000		'GILL ENERGY CENTER 69KV'		-0.05046 KACP	'MONTROSE 161KV'	351.749 0.00034 -0.0508 11
WREE         GLL BERGY CHATES BOY         116         4.0004 (AP)         NAREON S BOY         22         4.0002         4.0004           WREE         GLL BERGY CHATES BOY         116         4.0004 (AP)         116         4.0004 (AP) <td>WERE</td> <td>'GILL ENERGY CENTER 69KV'</td> <td>118</td> <td>-0.05046 OKGE</td> <td>'MUSKOGEE 345KV'</td> <td></td>	WERE	'GILL ENERGY CENTER 69KV'	118	-0.05046 OKGE	'MUSKOGEE 345KV'	
WREE         GL. DERKY CHYTE RAY         TT         D.0008         D.0008 <thd.0008< th="">         D.0008         <thd.< td=""><td></td><td></td><td></td><td></td><td></td><td></td></thd.<></thd.0008<>						
WREE         GLL BERGY CENTR ROY         118         -0.5008 (ACV         Weather and the approximation of the approxi		GILL ENERGY CENTER 69KV		-0.05046 KACY	NEARMAN 161KV	77 0.00036 -0.05082 11
MRRE         OLL DENGY CENTR (BWY         111         -0.0004 (PW)         NOTH-HASTERN STATUN 18VY         000         0.0005         111           VERE         OLL DENGY CENTR (BWY         111         -0.0004 (PW)         0.0004         111         0.0004         0.0004         0.0004         0.0004         0.0005         111           VERE         OLL DENGY CENTR (BWY         111         -0.0004 (PW)         116         0.0004         0.0004         0.0005		CILL ENERGY CENTER 60KV				
WREE         GLL DERKY CENTR (RWY         118         -0.0044 LPP         VORTELASTER STADUES VIEW         -0.001         -0.0001         -0.0001         -0.0001         -0.0001         -0.0001         -0.0001         -0.0001         -0.0001         -0.0002         -0.0001         -0.0002         -0.0001         -0.0002         -0.0001         -0.0002         -0.0001         -0.0011		GILL ENERGY GENTER OWN		-U.UDU40 KAUY	INCARINAIN ZURV	220 0.00030 -0.05082 11
WREE         GILL DERROY CENTE 66V/         118         -0.0064 [ZMP         CEC_34SU/ VER         -0.001         -0.0031         -0.00		GILL ENERGY CENTER 69KV		-0.05046 AEPW	NURTHEASTERN STATION 138KV	
WREE         OILL DERGY CENTER 66V         118         -0.606 (0.002)         0.0001						
WREE         OILL DERGY CENTER 66V         118         -0.606 (0.002)         0.0001	WERE	'GILL ENERGY CENTER 69KV'		-0.05046 AEPW	'OEC 345KV'	
WREE         GLL LENKRY CENTER 66V         118         -0.6048 (ACP         PACA COBURES 161/V         75.2768         0.0058         0.0056         11           WREE         GLL DENKY CENTER 66V         118         -0.6048 (ACP         PACA COBURES 161/V         0.001         0.0001 <td>WERE</td> <td>'GILL ENERGY CENTER 69KV'</td> <td></td> <td>-0.05046 EMDE</td> <td>'OZARK BEACH 161KV'</td> <td>16 0.00011 -0.05057 11</td>	WERE	'GILL ENERGY CENTER 69KV'		-0.05046 EMDE	'OZARK BEACH 161KV'	16 0.00011 -0.05057 11
WREE         OILL ENROY CENTRE 680/         118         0.0064 (APV         PREC FORMATION 138V         475         0.0007         0.8020         11           WREE         OILL ENROY CENTRE 680/         118         0.0064 (APV         108         0.0007         0.8020         11           WREE         OILL ENROY CENTRE 680/         118         0.0064 (APV         72         0.0007         0.6008         11           WREE         OILL ENROY CENTRE 680/         118         0.0064 (APV         72         0.0007         0.6008         11           WREE         OILL ENROY CENTRE 680/         118         0.0064 (APV         72         0.0007         0.6008         11           WREE         OILL ENROY CENTRE 680/         118         0.0064 (APV         72         0.0007         0.6008         11           WREE         OILL ENROY CENTRE 680/         118         0.0064 (APV         72.11 (LIR ENROY         73         0.0002         0.0001         0.0002         0.0001         0.0002         0.0001         0.0002         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001         0.0001		'GILL ENERGY CENTER 69KV'				
WREE         OLL ENROY CENTER 680*         111         0.0008 (ACT         OUNDAGE 080*         110         0.0008 (ACT         0.000		GILL ENERGY CENTER 69KV		-0.05046 AEPW	PIRKEY GENERATION 138KV	475 -0.00017 -0.05029 11
WREE         OLL ENROY CENTER 680Y         118         0.00684 ACT         OURDADO 68V         144         0.0008         0.0008         1.0008           WREE         OLL ENROY CENTER 680Y         118         0.00644 AEPW         118         0.00644 AEPW         72         0.0002         0.0002         111           WREE         OLL ENROY CENTER 680Y         118         0.00644 AEPW         120         0.0002 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>130 1932 0 00036 -0 05082 11</td></td<>						130 1932 0 00036 -0 05082 11
WREE         OILL ENERGY CENTRE BRY         118         0.0004 [APPW]         PIVEREIDS 151/CV         42.80         0.0016         0.0028         [11]           VEREE         OILL ENERGY CENTRE BRY         118         0.0004 [APPW]         PIVERION 151/CV         220.0038         0.0033         0.003						
WREE         DBL ENERGY CENTER BAY         118         0.0002         D.0002         <		GILL ENERGY CENTER 69KV		-0.05046 KACY	QUINDARU 69KV	
WREE         OILL PREPAY CENTRE 98Y         118         0.0084 [2006]         PUTCH 08Y         42.9213         0.0018         0.0008         0.0018           WREE         OILL PREPAY CENTRE 98Y         118         0.0048 [0.0048]         938.EF 161KY         66.933         0.0018         0.0008         0.0018         0.0008         0.0018		'GILL ENERGY CENTER 69KV'				
WREE         GILL ENERGY CENTRE 68Y/         118         0.00004         0.00079         111           WREE         GILL ENERGY CENTRE 68Y/         116         0.00044/PU         SBLEY 68Y.         45.9999         0.0003         0.00079         111           WREE         GILL ENERGY CENTRE 68Y/         116         0.00044/PU         SBLEY 68Y.         0.0004         0.0003         0.00003         0.0003		'GILL ENERGY CENTER 69KV'		-0.05046 EMDE	'RIVERTON 161KV'	72 0.0002 -0.05066 11
WREE         GILL ENERGY CENTRE 68WY         118         0.00048         UPU         SELV F68KY         45.99999         0.00033         0.00079         11           WREE         GILL ENERGY CENTRE 68WY         118         0.004404/W         SGUTH HARPER 16KY         53.5         0.0001         0.00680         11           WREE         GILL ENERGY CENTRE 68WY         118         0.00444/W         TULE NET 61KY         0.005         0.0001         0.00020         0.0001         0.00020         111           WREE         GILL ENERGY CENTRE 68WY         118         0.00444/WW         WEEN         70         0.0001         0.00	WERE	'GILL ENERGY CENTER 69KV'	118	-0.05046 EMDE	'RIVERTON 69KV'	42.58215 0.00018 -0.05064 11
WREE         GILL ENERGY CENTRE 68WY         118         0.00048         UPU         SELV F68KY         45.99999         0.00033         0.00079         11           WREE         GILL ENERGY CENTRE 68WY         118         0.004404/W         SGUTH HARPER 16KY         53.5         0.0001         0.00680         11           WREE         GILL ENERGY CENTRE 68WY         118         0.00444/W         TULE NET 61KY         0.005         0.0001         0.00020         0.0001         0.00020         111           WREE         GILL ENERGY CENTRE 68WY         118         0.00444/WW         WEEN         70         0.0001         0.00	WERE	'GILL ENERGY CENTER 69KV'	118	-0.05046 MIPU	SIBLEY 161KV	229.0368 0.00033 -0.05079 11
WREE         GILL ENERGY CENTRE 68NY         118         0.00048         IPUT         DOUTH ARPER 16NY         0.051         0.0009         0.0009         0.0009         11           WREE         GILL ENERGY CENTRE 68NY         118         0.0044 WREE         TATE LINE 16NY         0.00         0.0001         0.0003         11           WREE         GILL ENERGY CENTRE 68NY         118         0.0044 WREE         TGURSEN ENERGY CENTRE 68NY         220         0.0011         0.0003         0.011         0.0003         111           WREE         GILL ENERGY CENTRE 68NY         118         0.0044 APW         WILKES 138NY         39.0001         0.0003         0.0017         0.0028         111           WREE         GILL ENERGY CENTRE 68NY         118         0.0044 APW         WILKES 138NY         311         0.0017         0.0033         0.0173         1.021           WREE         GILL ENERGY CENTRE 68NY         118         0.0044 APW         NILKES 138NY         64         0.0048         0.0178         0.0404         0.0494         1.021         0.011         0.0044         0.0178         0.04178         0.0448         1.034         0.0117         0.0404         0.0178         0.0418         0.0494         1.02044         0.0144         0.0144 </td <td>WERE</td> <td></td> <td>118</td> <td>-0.05046 MIPU</td> <td>SIBLEY 69KV</td> <td>45.99999 0.00033 -0.05079 11</td>	WERE		118	-0.05046 MIPU	SIBLEY 69KV	45.99999 0.00033 -0.05079 11
WRFE         OILL ENERGY CENTRE 89KY         118         0.0594 ENDE         FTATE LINE 191KY         503         0.0019         0.00680         111           WRFE         GILL ENERGY CENTRE 89KY         118         0.0594 (WRFE         TECUMSENT ENTRY 151KY         108         0.00037		GILL ENERGY CENTER 69KV	118			
WRRE         OILL BNRRY CHTER B9V         118         -0.004 WRRE         CLUMSEN ENROY CENTRE 19V         108         0.0007         0.0003         111           WRRE         GILL BNRRY CENTRE 69V         118         -0.0044 APV         TULS APVWERS TATION 19VK         2.8         -0.0017         -0.0003         -0.0003         -111           WRRE         GILL BNRRY CENTRE 69V         118         -0.0044 APV         TULS APVWERS TATION 19VK         2.8         -0.0017         -0.0023         -0.011           WRRE         GILL BNRRY CENTRE 69V         118         -0.0044 APVW         WIRES 359V/         2.55V/         2.55V/         -0.0017         -0.0028         -0.111           WRRE         GILL BNRRY CENTRE 69V         118         -0.0044 APVW         WIRES 359V/         3.11         -0.0004         -0.0017         -0.0028         -0.0017         -0.0028         -0.0017         -0.0028         -0.0017         -0.0028         -0.0017         -0.0028         -0.0017         -0.0028         -0.0017         -0.0028         -0.0017         -0.0028         -0.0017         -0.0028         -0.0017         -0.0028         -0.0017         -0.0028         -0.0017         -0.0028         -0.0017         -0.0018         -0.0017         -0.0018         -0.0017         -0.0015 <td></td> <td>CILL ENERGY CENTER CORV</td> <td></td> <td></td> <td></td> <td></td>		CILL ENERGY CENTER CORV				
WERE         OILL ENERGY CENTRE 68V/         1116         -0.05648 / AEPW         TULSA POWER STATON 138K/         238         -0.00017         -0.6520         1111           WERE         GILL ENERGY CENTRE 68V/         116         -0.05648 / AEPW         WELEN 138K/         70         -0.0001         -0.65019         -0.65029         111           WERE         GILL ENERGY CENTRE 68V/         118         -0.05048 / AEPW         WELEN 3450V         30.09216         -0.00019         -0.65029         111           WERE         GILL ENERGY CENTRE 68V/         118         -0.05064 WERE         38.04         -0.00018         -0.00031         -0.04743         111         -0.05064 WERE         38.04         -0.00018         -0.0018         -0.0498         111         -0.05064 WERE         38.04         -0.0018         -0.0498         112         -0.0018         -0.0498         111         -0.05064 WERE         ALM AULERGREN CENTRE 68V/         40.0008         -0.0018         -0.0498         112           WERE         GILL ENERGY CENTRE 68V/         116         -0.05064 WERE         COLMY TO FM CUPHERSON 115K/         40.8         -0.0018         -0.0498         112           WERE         GILL ENERGY CENTRE 68V/         116         -0.05064 KEPW         COLMACHE 138K/         60.01248 <td></td> <td>GILL ENERGY CENTER 69KV</td> <td></td> <td>-0.05046 EIVIDE</td> <td>STATE LINE TOTRY</td> <td>503 0.00019 -0.05065</td>		GILL ENERGY CENTER 69KV		-0.05046 EIVIDE	STATE LINE TOTRY	503 0.00019 -0.05065
WERE         GILL ENERGY CENTRE 68NY         1116         -0.0508 / AEPW         WELETA 138NY         70         -0.0031         -0.0501         -0.0501         -0.0501         -0.0501         -0.0501         -0.0501         -0.0501         -0.0501         -0.0501         -0.0501         -0.0501         -0.0501         -0.0501         -0.0502         -111           WERE         GILL ENERGY CENTRE 68NY         1118         -0.0504 / AEPW         WILKES 138NY         394.034         -0.0005         -0.0004         -0.0005         -0.0004         -0.0005         -0.0004         -0.0005         -0.0005		GILL ENERGY CENTER 69KV		-0.05046 WERE	TECOMSER ENERGY CENTER 115KV	
WERE         GILL ENERGY CENTER 69KV         118         -0.5094 APV         WELS 1 345KV         980         -0.0018         -0.5027         111           WERE         GILL ENERGY CENTER 69KV         118         -0.5094 APV         WILKES 146KV         354.032         -0.0018         -0.5026         111           WERE         GILL ENERGY CENTER 69KV         118         -0.5094 MEP         WILKES 146KV         311         -0.0018         -0.5093         111           WERE         GILL ENERGY CENTER 69KV         118         -0.5094 MEP         APILE ENERGY CENTER 115KV         40         0.0018         -0.4997         112           WERE         GILL ENERGY CENTER 69KV         118         -0.5094 MEP         PULY 115KV         160         -0.0018         -0.4997         112           WERE         GILL ENERGY CENTER 69KV         118         -0.5094 MEP         COMANCHE 08KV         1160         -0.0008         -0.4995         112           WERE         GILL ENERGY CENTER 69KV         118         -0.5094 MEP         COMANCHE 08KV         1160         -0.0008         -0.4998         112           WERE         GILL ENERGY CENTER 69KV         118         -0.5094 MEP         COMANCHE 08KV         1160         -0.0008         -0.4998         12						
WERE         GLL ENERGY CENTER 69KV         118         -0.50696 APPW         WLKES 138KV         356.042         -0.0012         -0.5022         111           WERE         GLL ENERGY CENTER 69KV         118         -0.5046 APPW         WLKES 138KV         61.1         111         -0.0017         -0.5020         111           WERE         GLL ENERGY CENTER 69KV         118         -0.5046 WERE         ABLENER ENERGY CENTER 15KV         65.201         -0.0018         -0.4048         112           WERE         GLL ENERGY CENTER 69KV         118         -0.5046 WERE         COLLT VIEW         65.201         -0.0018         -0.4486         112           WERE         GLL ENERGY CENTER 69KV         118         -0.5046 APPW         COMMONTE 138KV         65.20         -0.0017         -0.4685         12           WERE         GLL ENERGY CENTER 69KV         118         -0.5046 APPW         COMMONTE 138KV         63.00061         -0.4485         12           WERE         GLL ENERGY CENTER 69KV         118         -0.5046 APEW         COMMONTE 138KV         63.00056         -0.4486         12           WERE         GLL ENERGY CENTER 69KV         118         -0.5046 APEE         HUTD'MISON BERGY CENTER 15KV         256.00187         -0.4486         12	WERE	'GILL ENERGY CENTER 69KV'		-0.05046 AEPW	WELEETKA 138KV	70 -0.0003 -0.05016 1'
WERE         GLL ENERGY CENTER 69KV         118         -0.05046 WFPL         A. MULLERCREM CENTER 69KV         0.0514         0.0017         -0.05029         111           WERE         GLL ENERGY CENTER 69KV         118         -0.05046 WFPL         A. MULLERCREM CENTER 69KV         40         -0.0044         -0.0044         -0.0044         -0.0138         -0.0039         -0.0138         -0.0039         -0.0138         -0.0039         -0.0138         -0.0034         -0.0138         -0.0138         -0.0138         -0.0138         -0.0138         -0.0138         -0.0138         -0.0138         -0.0138         -0.0138         -0.0138         -0.0138         -0.0138         -0.0138         -0.0138         -0.0138         -0.0138         -0.0054         -0.0056         -0.0158         -0.0056         -0.0056         -0.0056         -0.0056         -0.0056         -0.0056         -0.0056         -0.0056         -0.0056         -0.0056         -0.0056         -0.0056         -0.0056         -0.0056         -0.0049         -0.0056         -0.00495         -0.0056         -0.0498         -0.0056         -0.0498         -0.0056         -0.0498         -0.0056         -0.0498         -0.0056         -0.0498         -0.0056         -0.0498         -0.0056         -0.0498         -0.0056 <td< td=""><td>WERE</td><td>'GILL ENERGY CENTER 69KV'</td><td>118</td><td>-0.05046 AEPW</td><td>WELSH 345KV</td><td>990 -0.00019 -0.05027 11</td></td<>	WERE	'GILL ENERGY CENTER 69KV'	118	-0.05046 AEPW	WELSH 345KV	990 -0.00019 -0.05027 11
WERE         GLL ENERGY CENTER 69KV         118         -0.05046 WFPL         A. MULLERCREM CENTER 69KV         0.0514         0.0017         -0.05029         111           WERE         GLL ENERGY CENTER 69KV         118         -0.05046 WFPL         A. MULLERCREM CENTER 69KV         40         -0.0044         -0.0044         -0.0044         -0.0138         -0.0039         -0.0138         -0.0039         -0.0138         -0.0039         -0.0138         -0.0034         -0.0138         -0.0138         -0.0138         -0.0138         -0.0138         -0.0138         -0.0138         -0.0138         -0.0138         -0.0138         -0.0138         -0.0138         -0.0138         -0.0138         -0.0138         -0.0138         -0.0138         -0.0054         -0.0056         -0.0158         -0.0056         -0.0056         -0.0056         -0.0056         -0.0056         -0.0056         -0.0056         -0.0056         -0.0056         -0.0056         -0.0056         -0.0056         -0.0056         -0.0056         -0.0049         -0.0056         -0.00495         -0.0056         -0.0498         -0.0056         -0.0498         -0.0056         -0.0498         -0.0056         -0.0498         -0.0056         -0.0498         -0.0056         -0.0498         -0.0056         -0.0498         -0.0056 <td< td=""><td>WERE</td><td>'GILL ENERGY CENTER 69KV'</td><td>118</td><td>-0.05046 AEPW</td><td>WILKES 138KV</td><td>354.0342 -0.00018 -0.05028 11</td></td<>	WERE	'GILL ENERGY CENTER 69KV'	118	-0.05046 AEPW	WILKES 138KV	354.0342 -0.00018 -0.05028 11
WERE         GILL ENRRY CENTER 69KV         118         -0.05904         WERE         M. MULLERGREN CENTER 115KV         65         -0.0030         -0.04743         112           WERE         GILL ENRRY CENTER 69KV         118         -0.05904         WERE         BPU - CITY OF MCPHERSON I15KV         46.00044         -0.00467         112           WERE         GILL ENRRY CENTER 69KV         118         -0.05946         WERE         BPU - CITY OF MCPHERSON I15KV         41.0278         40.0078         -0.00467         122           WERE         GILL ENRRY CENTER 69KV         118         -0.05946         WERE         COMANCHE 138KV         68         -0.0066         -0.04867         12           WERE         GILL ENRRY CENTER 69KV         118         -0.05944         APPV         COMANCHE 69KV         68         -0.0006         -0.04867         12           WERE         GILL ENRRY CENTER 69KV         118         -0.05944         APPV         COMANCHE 69KV         60         -0.0005         -0.0005         -0.0005         -0.0005         -0.0005         -0.0005         -0.0005         -0.0005         -0.0005         -0.0005         -0.0005         -0.0005         -0.0005         -0.0005         -0.00498         122         -0.0005         -0.00498 <t< td=""><td></td><td>'GILL ENERGY CENTER 69KV'</td><td></td><td>-0.05046 AEPW</td><td>WILKES 345KV</td><td>311 -0.00017 -0.05029 1</td></t<>		'GILL ENERGY CENTER 69KV'		-0.05046 AEPW	WILKES 345KV	311 -0.00017 -0.05029 1
WERE         GILL ENERGY CENTER 69KV         118         -0.05046 WERE         Able.Ne ENERGY CENTER 115KV         40         -0.00048         0.04998         112           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 WERE         COLMAPCHESSON 115KV         65.376         -0.0178         -0.04987         112           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 AEPW         COMANCHE 135KV         66.3         -0.00061         -0.49885         112           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 AEPW         COMANCHE 135KV         63         -0.00061         -0.49885           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 MERE         FWAS ENERGY CENTER 136KV         60         -0.00051         -0.04985         112           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 MCRE         FWAS ENERGY CENTER 136KV         60         -0.00051         -0.04985         112           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 MCRE         FWAS ENERGY CENTER 136KV         60         -0.00051         -0.04985         112           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 MCRE         MCCLAIN 138KV         20.0107         -0.04985	WERE		118		A. M. MULLERGREN GENERATOR 115KV	63 -0.00303 -0.04743 12
WERE         CILL ENERGY CENTER 68KV         118         -0.0304 - 0.0491         12           WERE         GILL ENERGY CENTER 68KV         118         -0.05046 [WERE         COLBY 115KV         4.2878         -0.0179         -0.0486         12           WERE         GILL ENERGY CENTER 68KV         118         -0.05046 [WERE         COLBY 115KV         63         -0.00081         -0.04986         12           WERE         GILL ENERGY CENTER 68KV         118         -0.05046 [WERE         EVANACHE 138KV         63         -0.00081         -0.04986         12           WERE         GILL ENERGY CENTER 68KV         118         -0.05046 [WERE         EVANS ENERGY CENTER 138KV         641.3346         -0.00081         -0.0498         12           WERE         GILL ENERGY CENTER 68KV         118         -0.05046 [WERE         HUTCHNISON ENERGY CENTER 135KV         26         -0.00051         -0.04980         12           WERE         GILL ENERGY CENTER 68KV         118         -0.05046 [WERE         HUTCHNISON ENERGY CENTER 115KV         26         -0.00051         -0.04981         12           WERE         GILL ENERGY CENTER 68KV         118         -0.05046 [WERE         HUTCHNISON ENERGY         136         -0.00546         -0.04981         12           WERE<						
WERE         GILL ENERGY CENTER 68KV         118         -0.05046 JAEPW         COLMANCHE 13KV         41.287         -0.0179         -0.04867         112           WERE         GILL ENERGY CENTER 68KV         118         -0.05046 JAEPW         COMANCHE 58KV         150         -0.00061         -0.04985         112           WERE         GILL ENERGY CENTER 68KV         118         -0.05046 WERE         EVANS ENERGY CENTER 138KV         300         -0.0744         12           WERE         GILL ENERGY CENTER 68KV         118         -0.05046 WERE         HORSESHOE LAKE 138KV         661 3384         -0.00051         -0.04986         12           WERE         GILL ENERGY CENTER 68KV         118         -0.05046 WERE         HORSESHOE LAKE 138KV         616 30055         -0.00051         -0.04986         12           WERE         GILL ENERGY CENTER 68KV         118         -0.05046 WERE         HORSESHOE LAKE 138KV         418         0.00051         -0.04985         12           WERE         GILL ENERGY CENTER 68KV         118         -0.05046 WERE         HORSESHOE LAKE 138KV         205         -0.00051         -0.04983         12           WERE         GILL ENERGY CENTER 68KV         118         -0.05046 WERE         HORSESHOE LAKE 638KV         205         -0.00051		CILL ENERGY CENTER 60KV		0.05040 WERE	PDU CITY OF MCDUEDSON 115KV	
WERE         GLIL ENERGY CENTER 68KV         118         -0.0064 AEPW         COMANCHE 138KV         110         -0.00681         -0.00881         122           WERE         GLIL ENRGY CENTER 68KV         118         -0.0064 WERE         EVANS ENRGY CENTER 138KV         681.334         -0.0031         -0.04786         112           WERE         GLIL ENRGY CENTER 68KV         118         0.5064 WERE         EVANS ENREGY CENTER 138KV         681.334         -0.0031         -0.04786         112           WERE         GLIL ENRGY CENTER 68KV         118         0.5064 WERE         EVANS ENREGY CENTER 138KV         200.1187         -0.00483         -0.0048         112           WERE         GLIL ENRGY CENTER 68KV         118         0.5064 WERE         HUTCHINSON ENREGY CENTER 15KV         205         -0.00483         -0.00492         112           WERE         GLIL ENRGY CENTER 68KV         118         0.50646 OKGE         MUSTANG 68KV         106         -0.00055         -0.00491         12           WERE         GLIL ENRGY CENTER 68KV         118         0.50646 OKGE         MUSTANG 68KV         106         -0.0065         -0.00491         -0.0065         -0.00491         12           WERE         GLIL ENRGY CENTER 68KV         118         0.50664 OKGE         OMPA-		OILE ENERGY GENTER OBAY				
WERE         GILL ENERGY CENTER 69KV         118         0.00564 AEPW         COMANCHE 69KV         63         0.00081         0.00485         12           WERE         GILL ENREGY CENTER 69KV         118         0.00540 KGE         HORSESHOE LAKE 138KV         631         0.00031         0.00496         12           WERE         GILL ENREGY CENTER 69KV         118         0.05940 KGE         HORSESHOE LAKE 138KV         691         3344         0.00051         0.00496         12           WERE         GILL ENREGY CENTER 69KV         118         0.05940 KGE         HORSESHOE LAKE 69KV         206         0.0017         0.04859         12           WERE         GILL ENREGY CENTER 69KV         118         0.05940 KGE         MUCTANDA 138KV         206         0.00051         0.04983         12           WERE         GILL ENREGY CENTER 69KV         118         0.05940 KGE         MUSTANC 138KV         365.5         0.00054         0.04981         12           WERE         GILL ENREGY CENTER 69KV         118         0.05940 KGE         0.0007A         0.00055         0.04783         12           WERE         GILL ENREGY CENTER 69KV         118         0.05940 KGE         0.0007A         0.00064         0.00085         0.00078         0.00084		GILL ENERGY GENTER 69KV		-0.05046 WERE	COLDT 115KV	4.12878 -0.00179 -0.04867 12
WERE         GLLE NERGY CENTER 68KV         118         0.05046         WERE         EVANS ENERGY CENTER 138KV         940         -0.003         -0.0478         112           WERE         GLLE NERGY CENTER 68KV         118         0.05046         MCGE         HORSESHOE LAKE 13KV         691.334         -0.0035         -0.04996         12           WERE         GLLE NERGY CENTER 68KV         118         0.05046         MCERE         HUTCHINSON ENERGY CENTER 13KV         205         -0.0017         -0.04995         12           WERE         GLLE NERGY CENTER 68KV         118         0.05046         MCGLAIN 138KV         478         -0.00053         -0.04993         12           WERE         GLLE NERGY CENTER 68KV         118         0.05046         MCGLAIN 138KV         476         -0.00055         -0.04991         12           WERE         GLLE NERGY CENTER 68KV         118         0.05046         MCGE         MUSTANG 68KV         106         -0.00253         -0.04931         12           WERE         GLLE NERGY CENTER 68KV         118         0.05046         MCGE         MUSTANG 68KV         106         -0.00253         -0.04783         12           WERE         GLLE NERGY CENTER 68KV         118         0.05046         MCGE		GILL ENERGY CENTER 69KV			COMANCHE 138KV	160 -0.00061 -0.04985 12
WERE         GILL ENERGY CENTER 69KV         118         0.05046 [OKGE         HORSESHOE LAKE 138KV         6613384         0.00051         0.04995         12           WERE         GILL ENERGY CENTER 69KV         118         0.05046 [OKGE         HORSESHOE LAKE 69KV         16         0.00051         0.04995         12           WERE         GILL ENERGY CENTER 69KV         118         0.05046 [OKGE         HUTCHINSON ENERGY CENTER 115KV         205         0.00167         0.04989         12           WERE         GILL ENERGY CENTER 69KV         118         0.05046 [OKGE         MUSTANG 138KV         365.5         0.00054         0.04992         12           WERE         GILL ENERGY CENTER 69KV         118         0.05046 [OKGE         MUSTANG 69KV         106         0.00005         0.04991         12           WERE         GILL ENERGY CENTER 69KV         118         0.05046 [OKGE         OMPA-KAW 69KV         10.6         0.00005         0.04993         12           WERE         GILL ENERGY CENTER 69KV         118         0.05046 [OKGE         OMPA-KAW 69KV         10.7         0.00005         0.04973         12           WERE         GILL ENERGY CENTER 69KV         118         0.05046 [OKGE         SEMIDU JA\$KV         20.00005         0.04989 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
WERE         GILL ENERGY CENTER 69K/*         118         -0.0506 [OKGE         HORSESHOE LAKE 138K/*         6613384         -0.0051         -0.04995         12           WERE         GILL ENERGY CENTER 69K/*         118         -0.0504 [OKGE         HORSESHOE LAKE 69K/*         16         -0.0054         -0.04995         12           WERE         GILL ENERGY CENTER 69K/*         118         -0.0504 [OKGE         HUTCHINSON ENERGY CENTER 115K/*         205         -0.00167         -0.04989         12           WERE         GILL ENERGY CENTER 69K/*         118         -0.0504 [OKGE         MUSTANG 138K/*         365.5         -0.0054         -0.04992         12           WERE         GILL ENERGY CENTER 69K/*         118         -0.0504 [OKGE         MUSTANG 69K/*         106         -0.00055         -0.04991         12           WERE         GILL ENERGY CENTER 69K/*         118         -0.0504 [OKGE         OMPA-KAW 69K/*         106         -0.00056         -0.04933         12           WERE         GILL ENERGY CENTER 69K/*         118         -0.0504 [OKGE         OMPA-PONCA CITY 68K/*         136.5         -0.00054         -0.04987         12           WERE         GILL ENERGY CENTER 69K/*         118         -0.0504 [OKGE         TOR MA-KAW 69K/*         250.4		'GILL ENERGY CENTER 69KV'			'EVANS ENERGY CENTER 138KV'	
WERE         GILL ENERGY CENTER 69KV         118         0.05046 [WRGE         HORSESHOE LAKE 69KV         16         -0.0006         0.04996         12           WERE         GILL ENERGY CENTER 69KV         118         0.05046 [WRGE         MCCLAN 138KV         255         0.0187         0.04993         12           WERE         GILL ENERGY CENTER 69KV         118         0.05046 [KGE         MUCTANI 38KV         345.5         0.00054         0.04993         12           WERE         GILL ENERGY CENTER 69KV         118         0.05046 [KGE         MUSTANG 69KV         166         0.00053         0.04991         12           WERE         GILL ENERGY CENTER 69KV         118         0.05046 [KGE         MUSTANG 69KV         197         10.0233         0.04783         12           WERE         GILL ENERGY CENTER 69KV         118         0.05046 [KGE         CMPA-KAW 68KV         30.0<00059		'GILL ENERGY CENTER 69KV'			'HORSESHOE LAKE 138KV'	691.3384 -0.00051 -0.04995 12
WERE         'OILL ENERGY CENTER 69KV         118         -0.05046 WERE         'HUTCHINSON ENERGY CENTER 115KV         205         -0.0187         -0.04859         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 OKGE         MUSTANG 138KV         385.5         -0.00053         -0.04992         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 OKGE         MUSTANG 69KV         116         -0.00055         -0.04992         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 OKGE         OMPA-PONCA CITY 69KV         116.400053         -0.04983         -0.2783         -0.0223         -0.04783         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046         OKGE         OMPA-PONCA CITY 69KV         154.4849         -0.00263         -0.04987         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046         OKGE         ONE AX 35KV         206         -0.00497         -0.4989         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046         OKGE         SEMINOLE 33KV         200         -0.00494         -0.49499         12           WERE         GILL ENERGY CENTER 69KV         118		'GILL ENERGY CENTER 69KV'	118	-0.05046 OKGE	'HORSESHOE LAKE 69KV'	16 -0.0005 -0.04996 12
WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         MCCLAIN 138KV         478         -0.00053         -0.04932         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         MUSTANG 138KV         385.5         -0.00054         -0.04932         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         MUSTANG 59KV         19.7         -0.00253         -0.04933         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         CMPA-KAW 69KV         19.7         -0.00253         -0.04783         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         CMPA-KAW 69KV         300         -0.00981         -0.04783         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         CMEOAK 345KV         300         -0.00981         -0.04987         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SEMINOLE 345KV         300         -0.00941         -0.04989         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SEMINOLE 345KV         20         -0.00044         -0.04982		'GILL ENERGY CENTER 69KV'		-0.05046 WERE	'HUTCHINSON ENERGY CENTER 115KV'	205 -0.00187 -0.04859 12
WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         MUSTANG 538KV         365.5         -0.00054         -0.04991         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         CMPA-POACACITY 69KV         19.7         -0.00053         -0.04931         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         CMPA-POACACITY 69KV         15.8 A89         -0.00053         -0.04783         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         CMPA-POACACITY 69KV         300         -0.00059         -0.04981         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         CMPA-POACACITY 69KV         250         -0.00049         -0.04981         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SEMINOLE 345KV         250         -0.00049         -0.04989         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SEMINOLE 345KV         996         -0.00044         -0.04989         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SEMINOLE 345KV         120         -0.0005		GILL ENERGY CENTER 69KV			'MCCLAIN 138KV'	478 -0.00053 -0.04993 13
WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         MUSTANG 69KV         106         -0.00855         -0.04973         112           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         OMPA-KAW 69KV         19.7         -0.00283         -0.04783         112           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         OMPA-KAW 69KV         300         -0.00283         -0.04987         122           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         COMPA-KAW 69KV         300         -0.00981         -0.04987         122           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SEMINOLE 345KV         250         -0.00491         -0.04989         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SEMINOLE 345KV         260         -0.0044         -0.4998         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SOMTH COBEL 138KV         260         -0.0044         -0.4998         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SOMTH COBEL 138KV         513         -0.0064         -0.049						
WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         OMPA-KAW 69KV         19.7         -0.0283         -0.0473         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         OMPA-PONCA CITY 59KV         300         -0.00059         -0.04733         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         ONE OAK 345KV         300         -0.00059         -0.04997         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SEMINULE 138KV         482.6087         -0.00047         -0.04999         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SEMINULE 138KV         482.6087         -0.00047         -0.04998         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SEMINULE 345KV         120         -0.00048         -0.04992         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SCONER 138KV         500         -0.00044         -0.04982         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SCONER 138KV         500         -0.00044 <td< td=""><td></td><td>GILL ENERGY CENTER 69KV</td><td></td><td>-0.05046 OKCE</td><td>MUSTANG 69KV</td><td>106 -0.00055 -0.04001 41</td></td<>		GILL ENERGY CENTER 69KV		-0.05046 OKCE	MUSTANG 69KV	106 -0.00055 -0.04001 41
WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         OMPA-PONCA CITY 69KV         158.488         -0.0283         -0.0483         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         REDBUD 345KV         300         -0.00059         -0.04987         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         REDBUD 345KV         250         -0.00491         -0.04999         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SEMINOLE 345KV         996         -0.00491         -0.04999         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SEMINOLE 345KV         120         -0.0044         -0.04982         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SOONER 138KV         505         -0.0044         -0.4992         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SOONER 138KV         503         -0.00541         -0.4992         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SOONER 138KV         527         -0.00561         -0.0553		CILL ENERGY CENTER 60K/				
WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         REDBUD 345KV         250         -0.00491         -0.0499         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SEMINOLE 345KV         996         -0.00491         -0.04999         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SEMINOLE 345KV         996         -0.00481         -0.04990         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SOMTE CASHKV         120         -0.00541         -0.04982         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SOONER 138KV         505         -0.00141         -0.04982         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SOONER 138KV         513         -0.00561         -0.0492         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [WEPL         CRAY COUNTY WIND FARM         153         -0.05053         -0.0452         133           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [WEPL         UDSON LARGE 115KV         108.03999         -0.0373         164		GILL ENERGY GENTER OWN		-U.U3U40 UKGE	OWEATOWN DON'	19.7 -0.00203 -0.04783 12
WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         REDBUD 345KV         250         -0.00491         -0.0499         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SEMINOLE 345KV         996         -0.00491         -0.04999         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SEMINOLE 345KV         996         -0.00481         -0.04990         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SOMTE CASHKV         120         -0.00541         -0.04982         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SOONER 138KV         505         -0.00141         -0.04982         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SOONER 138KV         513         -0.00561         -0.0492         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [WEPL         CRAY COUNTY WIND FARM         153         -0.05053         -0.0452         133           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [WEPL         UDSON LARGE 115KV         108.03999         -0.0373         164		GILL ENERGY GENTER 69KV				154.8489 -0.00263 -0.04/83 12
WERE         GLLL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SEMINOLE 138KV         482.6087         -0.0047         -0.0499         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SEMINOLE 138KV         996         -0.00044         -0.04998         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SMITH COGEN 138KV         120         -0.00054         -0.04982         122           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SOONER 138KV         503         -0.00064         -0.04902         122           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SOONER 345KV         513         -0.00064         -0.04962         122           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SOONER 345KV         513         -0.00064         -0.0462         123           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [WEPL         JUDSON LARGE 115KV         73         -0.00526         -0.0452         133           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [WEPL         JUDSON LARGE 115KV         73.00         0.00029         <						
WERE         GLL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SEMINOLE 138KV         482.6087         -0.0047         -0.04998         112           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SEMINOLE 138KV         996         -0.00041         -0.04998         122           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SMITH COGEN 138KV         120         -0.00054         -0.04982         122           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SOONER 138KV         505         -0.0144         -0.04902         122           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SOONER 345KV         513         -0.00061         -0.04982         122           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SOUTHWESTERNSTATION 138KV         327         -0.00052         -0.0452         13           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [WEPL         JUDSON LARGE 115KV         73         -0.00526         -0.0452         13           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [WEPL         JUDSON LARGE 115KV         73.00023         -0.0452		'GILL ENERGY CENTER 69KV'		-0.05046 OKGE	'REDBUD 345KV'	250 -0.00049 -0.04997 12
WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SEMINOLE 345KV         996         -0.00948         -0.04980         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SOMTH COGEN 138KV         120         -0.00054         -0.04982         122           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SOONER 138KV         505         -0.00144         -0.04982         122           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SOONER 138KV         503         -0.00054         -0.04982         122           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SOONER 138KV         327         -0.00051         -0.04982         123           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [WEPL         [UBDS NL ARGE 15KV         108 999         -0.0523         -0.0452         133           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [WEPL         [UDDS NL ARGE 15KV         108 999         -0.03732         155           WERE         GILL ENERGY CENTER 138KV         84 99999         -0.03703 [MEPL         ASBUY 161KV         300         0.00033         -0.03742		'GILL ENERGY CENTER 69KV'				
WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SMITH COGEN 138KV         120         -0.00044         -0.04902         122           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SOONER 345KV         505         -0.01044         -0.04902         122           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SOONER 345KV         503         -0.00084         -0.04982         122           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SOUTHW STERN STATION 138KV         327         -0.00081         -0.04985         122           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [WEPL         JUDSON LARGE 15KV         73         -0.0052         -0.0452         133           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [WEPL         JUDSON LARGE 15KV         73         -0.0052         -0.0452         133           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [WEPL         JUDSON LARGE 15KV         73.00         0.00032         -0.0452         133           WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703 [MIPL         ASBURY 161KV         191         0.00027 </td <td></td> <td>'GILL ENERGY CENTER 69KV'</td> <td>118</td> <td>-0.05046 OKGE</td> <td>SEMINOLE 345KV</td> <td>996 -0.00048 -0.04998 12</td>		'GILL ENERGY CENTER 69KV'	118	-0.05046 OKGE	SEMINOLE 345KV	996 -0.00048 -0.04998 12
WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SOONER 138KV         505         -0.00141         0.04962         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SOONER 138KV         513         -0.00641         0.04962         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SOONER 345KV         327         -0.00661         -0.04982         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [MEPL         (CRAY COUNTY WIND FARM 115KV         73         -0.00526         -0.0452         13           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [WEPL         (JUDSON LARGE 115KV         106.9999         -0.0523         -0.0452         13           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [WEPL         (JUDSON LARGE 115KV         106.9999         -0.03732         15           WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703         MED         Abgurt 16KV         300         0.00039         -0.03742         15           WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703         MER         D.01045         -0.0374         15<	WERE	'GILL ENERGY CENTER 69KV'		-0.05046 OKGE	'SMITH COGEN 138KV'	120 -0.00054 -0.04992 12
WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [OKGE         SOONER 345KV         513         -0.0084         -0.04985         122           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [AEPW         SOUTHWESTERN STATION 138KV         327         -0.00841         -0.04985         122           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [AEPW         GRAY COUNTY WIND FARM 115KV         327         -0.00528         -0.0452         133           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [WEPL         JUDSON LARGE 115KV         108.9999         -0.0373         10.04935         14           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [WEPL         JUDSON LARGE 115KV         27.062         -0.00531         -0.0493         14           WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703 [MIPU         ARLES 161KV         300         0.00037         -0.0373         15           WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703 [MIPC         CHAUTE 96WV         56.723         0.00376         15           WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703 [WERE         CITY OF AL/GUSTA 68KV         24         0.00		'GILL ENERGY CENTER 69KV'				505 -0.00144 -0.04902 12
WERE         GILL ENERGY CENTER 69KV         118         -0.05046 JAEPW         SOUTHWESTERN STATION 138KV         327         -0.00061         -0.04962         12           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 JAEPW         SOUTHWESTERN STATION 138KV         72         -0.00061         -0.0452         13           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 WEPL         JUDSON LARGE 115KV         106.9999         -0.0573         -0.0452         13           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 WEPL         JUDSON LARGE 115KV         106.9999         -0.0493         14           WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703 IMPU         ARIES 151KV         300         0.00027         -0.0372         15           WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703 IMPU         ARIES 151KV         300         0.00027         -0.03748         15           WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703 IMERE         CHANUTE 69KV         56.723         0.00045         -0.03748         15           WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703 IMERE         CHANUTE 69KV         56.723         0.00043 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [WEPL         GRAY COUNTY WIND FARM 115KV         73         -0.0526         -0.0452         13           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [WEPL         GRAY COUNTY WIND FARM 115KV         73         -0.0526         -0.0452         13           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [WEPL         CITY OF WINFIELD 69KV         27.962         -0.00933         0.04033         14           WERE         GILL ENERGY CENTER 138KV         84.9999         -0.03703 [MIPU         ARIES 161KV         300         0.00027         -0.0373         155           WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703 [KDEC         CHANUTE 69KV         19         0.00045         -0.0373         155           WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703 [WERE         CHANUTE 69KV         56.72         0.00035         0.03786         15           WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703 [WERE         CITY OF AUGUSTA 68KV         24         0.00137         0.03786         15           WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703 [WERE         CITY OF AUGUSTA 68KV <t< td=""><td></td><td>GILL ENERGY CENTER 69KV</td><td></td><td>-0.05046 AEPW/</td><td></td><td>327 -0.00061 -0.04985 11</td></t<>		GILL ENERGY CENTER 69KV		-0.05046 AEPW/		327 -0.00061 -0.04985 11
WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [WEPL         JUDSON LARGE 115KV         108.9999         -0.05073         1.04507         13           WERE         GILL ENERGY CENTER 69KV         118         -0.05046 [WEPL         CITY OF WINFELD 69KV         27.962         -0.00573         -0.04031         14           WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03730 [MIPL         ARIES 161KV         300         0.00027         -0.0373         155           WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703 [MIPL         ARIES 161KV         306         0.00045         -0.0373         155           WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703 [WERE         CHANUTE 69KV         56.723         0.00045         -0.0376         155           WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703 [WERE         CITY OF AUGUSTA 69KV         24         0.0013         -0.0386         15           WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703 [WERE         CITY OF AUGUSTA 69KV         24         0.0013         -0.0386         15           WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703 [WERE         CITY OF BURLINGTON 69KV         <		GILL ENERGY CENTER 60KV"				
WERE         GILL ENERGY CENTER 138K/*         18         -0.05046 [WERE         CITY OF WINFIELD 69K/*         27.962         -0.0993         -0.0433         14           WERE         GILL ENERGY CENTER 138K/*         84.99999         -0.03703 [MIPU         ARIES 161K/*         300         0.00033         0.04742         15           WERE         'GILL ENERGY CENTER 138K/*         84.99999         -0.03703 [MIPU         ARIES 161K/*         300         0.00027         -0.0373         15           WERE         'GILL ENERGY CENTER 138K/*         84.99999         -0.03703 [KRCP         BULL CREEK 161K/*         308         0.00045         -0.0378         15           WERE         'GILL ENERGY CENTER 138K/*         84.99999         -0.03703 [WERE         CITY OF AUGUSTA 68K/*         56.723         0.00035         -0.0378         15           WERE         'GILL ENERGY CENTER 138K/*         84.99999         -0.03703 [WERE         CITY OF AUGUSTA 68K/*         24         0.00181         -0.0378         15           WERE         'GILL ENERGY CENTER 138K/*         84.99999         -0.03703 [WERE         CITY OF AUGUSTA 68K/*         24         0.00181         -0.03871         15           WERE         GILL ENERGY CENTER 138K/*         84.99999         -0.03703 [KREC         CITY OF FILGI		CILL ENERGY CENTER 60K/		-0.00040 WEPL	UDSON LADGE 115KV	
WERE         GILL ENERGY CENTER 138KV         84 99999         -0.03703         INF         ASBURY 161KV         900         0.00037         0.0073         155           WERE         GILL ENERGY CENTER 138KV         84 99999         -0.03703         ENDE         ASBURY 161KV         191         0.00071         -0.0373         155           WERE         GILL ENERGY CENTER 138KV         84 99999         -0.03703         ENDE         600043         -0.0378         155           WERE         GILL ENERGY CENTER 138KY         84 99999         -0.03703         WERE         CHANUTE 68KV         6672         0.00031         0.03786         155           WERE         GILL ENERGY CENTER 138KY         84 99999         -0.03703         WERE         CITY OF AUGUSTA 68KY         24         0.00103         -0.03866         155           WERE         GILL ENERGY CENTER 138KY         84 99999         -0.03703         WERE         CITY OF AUGUSTA 68KY         24         0.00103         -0.03866         155           WERE         GILL ENERGY CENTER 138KY         84 99999         -0.03703         WERE         CITY OF BURLINGTON 68KY         23.2         0.00083         -0.0376         155           WERE         GILL ENERGY CENTER 138KY         84 99999         -0.03		GILL ENERGY CENTER 69KV			JUDGUN LARGE 115KV	
WERE         GILL ENERGY CENTER 138KV         84 99999         -0.03703 ENDE         ASBURY 161KV         191         0.00027         -0.0373         155           WERE         GILL ENERGY CENTER 138KV         84 99999         -0.03703 ENCP         BULL CREEK 161KV         306         0.00027         -0.0376         155           WERE         GILL ENERGY CENTER 138KV         84 99999         -0.03703 WERE         CHANUTE 69KV         56.723         0.0036         -0.03766         155           WERE         GILL ENERGY CENTER 138KV         84 99999         -0.03703 WERE         CITY OF AUGUSTA 69KV         24         0.00181         -0.03876         155           WERE         GILL ENERGY CENTER 138KV         84 99999         -0.03703 WERE         CITY OF AUGUSTA 69KV         24         0.00181         -0.03871         155           WERE         GILL ENERGY CENTER 138KV         84 99999         -0.03703 WERE         CITY OF FULNGTON 69KV         34.753         0.0038         10.3376         155           WERE         GILL ENERGY CENTER 138KV         84 99999         -0.03703 WERE         CITY OF FULGE 69KV         32.27         0.00031         0.03733         155           WERE         GILL ENERGY CENTER 138KV         84 99999         -0.03703 WERE         CITY OF FULG 69KV						
WERE         GLL ENERGY CENTER 138KV         84.99999         -0.03703 [MDE         ASBURY 151KV         191         -0.0027         -0.0373         15           WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703 [MCP         BULL CREEK 151KV         308         0.00045         -0.03748         155           WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703 [WERE         CHANUTE 69KV         56.723         0.00083         -0.03786         155           WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703 [WERE         CITY OF AUGUSTA 69KV         24         0.00168         -0.03876         155           WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703 [WERE         CITY OF AUGUSTA 69KV         24         0.00168         -0.03871         155           WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703 [WERE         CITY OF FIG 69KV         23.27         0.0003         -0.03730         155           WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703 [WERE         CITY OF FIG 69KV         23.27         0.0003         -0.03730         155           WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703 [WERE         CITY OF FIG 69KV		GILL ENERGY CENTER 138KV		-0.03703 MIPU	ARIES 161KV	300 0.00039 -0.03742 15
WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703 [KRCP         BULL CREEK 161KV         56 723         0.00784         1.63           WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703 [WERE         CTANUTE 69KV         56 723         0.00083         -0.03786         15           WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703 [WERE         CTY OF ALIGUSTA 69KV         24         0.00138         -0.03786         15           WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703 [WERE         CTY OF ALIGUSTA 69KV         24         0.00188         -0.03781         15           WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703 [WERE         CTY OF FILE 69KV         23.27         0.00083         -0.03786         15           WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703 [WERE         CTY OF FILE 69KV         23.27         0.00083         -0.03786         15           WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703 [WERE         CITY OF HIGINSVILLE 69KV         23.27         0.00083         -0.03776         15           WERE         'GILL ENERGY CENTER 138KV         84.99999         -0.03703 [WERE         CITY OF HIGINSVILL 69KV		'GILL ENERGY CENTER 138KV'		-0.03703 EMDE	'ASBURY 161KV'	191 0.00027 -0.0373 15
WERE         GILL ENERGY CENTER 138K/         84.99999         -0.03703         WERE         CHANUTE 69K/         56.723         0.0038         16.33           WERE         GILL ENERGY CENTER 138K/         84.99999         -0.03703         WERE         CITY OF AUGUSTA 69K/         24         0.00103         -0.03806         15           WERE         GILL ENERGY CENTER 138K/         84.99999         -0.03703         WERE         CITY OF AUGUSTA 69K/         34.753         0.0018         -0.03871         15           WERE         GILL ENERGY CENTER 138K/         84.99999         -0.03703         WERE         CITY OF ENE 69K/         22.27         0.00081         -0.0373         15           WERE         GILL ENERGY CENTER 138K/         84.99999         -0.03703         WERE         CITY OF FIGINSVILLE 69K/         35         0.0003         -0.0373         15           WERE         GILL ENERGY CENTER 138K/         84.99999         -0.03703         WERE         CITY OF FIGINSVILLE 69K/         35         0.0003         -0.0373         15           WERE         GILL ENERGY CENTER 138K/         84.99999         -0.03703         WERE         CITY OF FIGINSVILLE 69K/         24.267         0.00071         -0.0374         15           WERE         GILL ENERGY CEN		'GILL ENERGY CENTER 138KV'			'BULL CREEK 161KV'	308 0.00045 -0.03748 15
WERE         GILL ENERGY CENTER 138K/         84 99999         -0.03703         WERE         CITY OF AUGUSTA 69K/         24         0.0108         -0.03806         15           WERE         GILL ENERGY CENTER 138K/         84 99999         -0.03703         WERE         CITY OF AUGUSTA 69K/         34 753         0.0188         -0.03871         15           WERE         GILL ENERGY CENTER 138K/         84 99999         -0.03703         WERE         CITY OF FURIE 69K/         23 27         0.00083         -0.0376         15           WERE         GILL ENERGY CENTER 138K/         84 99999         -0.03703         KREE         CITY OF FIRE 69K/         23 27         0.00083         -0.03765         15           WERE         GILL ENERGY CENTER 138K/         84 99999         -0.03703         KRE         0.00071         -0.03774         15           WERE         'GILL ENERGY CENTER 138K/         84 99999         -0.03703         WERE         CITY OF HIGINSVILLE 69K/         24 267         0.00071         -0.03774         15           WERE         'GILL ENERGY CENTER 138K/         84 99999         -0.03703         WERE         'CITY OF 10.4 69K/         24 267         0.00071         -0.03774         15           WERE         'GILL ENERGY CENTER 138K/'		'GILL ENERGY CENTER 138KV'			CHANUTE 69KV	56,723 0.00083 -0.03786 15
WERE         GILL ENERGY CENTER 138KV         84.99999         -0.03703         WERE         CITY OF BURLINGTON 69KV         34.753         0.00168         -0.0371         15           WERE         'GILL ENERGY CENTER 138KV'         84.99999         -0.03703 WERE         CITY OF BURLINGTON 69KV'         23.27         0.00083         -0.03703         15           WERE         'GILL ENERGY CENTER 138KV'         84.99999         -0.03703 WERE         CITY OF FRIE 69KV'         23.27         0.00083         -0.0373         15           WERE         'GILL ENERGY CENTER 138KV'         84.99999         -0.03703 WERE         'CITY OF FIGGINSVILLE 69KV'         35         0.0003         -0.0373         15           WERE         'GILL ENERGY CENTER 138KV'         84.99999         -0.03703 WERE         'CITY OF FIGGINSVILLE 69KV'         24.267         0.00071         -0.0373         15           WERE         'GILL ENERGY CENTER 138KV'         84.99999         -0.03703 WERE         'CITY OF FIGL 69KV'         24.267         0.00071         -0.0374         15           WERE         'GILL ENERGY CENTER 138KV'         84.99999         -0.03703 WERE         'CITY OF FIGL 69KV'         17.0034         0.00975         15           WERE         'GILL ENERGY CENTER 138KV'         84.99999         -0.03703 WE		GILL ENERGY CENTER 138KV				24 0.00103 -0.03806 14
WERE         GILL ENERGY CENTER 138K/         84.99999         -0.03703         WERE         CITY OF ENE 69K/         23.27         0.0038         -0.03703         155           WERE         GILL ENERGY CENTER 138K/         84.99999         -0.03703         ICTY OF FIGE01KSVILLE 69K/         35         0.0033         0.03733         155           WERE         GILL ENERGY CENTER 138K/         84.99999         -0.03703         WERE         CITY OF FIGE01KSVILLE 69K/         35         0.0003         -0.03733         155           WERE         GILL ENERGY CENTER 138K/         84.99999         -0.03703         WERE         CITY OF FIGE 69K/V         24.267         0.00071         -0.03774         15           WERE         GILL ENERGY CENTER 138K/         84.99999         -0.03703         WERE         CITY OF FIGE 69K/V         17.0034         0.00082         -0.03774         15           WERE         GILL ENERGY CENTER 138K/Y         84.99999         -0.03703         WERE         CITY OF ICA 69K/V         17.0034         0.00082         -0.03774         15           WERE         GILL ENERGY CENTER 138K/Y         84.99999         -0.03703         WERE         COFFEY COUNTY NO.2 SHARPE 69K/Y         19.97         0.00188         -0.03771         15						
WERE         'GILL ENERGY CENTER 138KV'         84.99999         -0.03703 (KACP         'CITY OF HIGGINSVILLE 69KV'         35         0.0003         -0.03733         15           WERE         'GILL ENERGY CENTER 138KV'         84.99999         -0.03703 (WERE         'CITY OF HIGGINSVILLE 69KV'         24.267         0.00071         10.5774         15           WERE         'GILL ENERGY CENTER 138KV'         84.99999         -0.03703 [WERE         'CITY OF HIGGINSVILLE 69KV'         24.267         0.00072         -0.03735         15           WERE         'GILL ENERGY CENTER 138KV'         84.99999         -0.03703 [WERE         'CITY OF FUG A68KV'         17.0034         0.00082         -0.03775         15           WERE         'GILL ENERGY CENTER 138KV'         84.99999         -0.03703 [WERE         'COFFEY COUNTY NO.2 SHARPE 69KV'         19.97         0.00168         -0.03871         15		GILL ENERGY CENTER 138KV	84 00000	-0.03703 WERE		23.27 0.00082 0.02796 4/
WERE         'GILL ENERGY CENTER 138KV'         84.99999         -0.03703  WERE         'CITY OF IOLA 69KV'         24.267         0.00071         -0.03774         15           WERE         'GILL ENERGY CENTER 138KV'         84.99999         -0.03703  WERE         'CLR_1'         .575         34KV'         17.0034         0.000371         15           WERE         'GILL ENERGY CENTER 138KV'         84.99999         -0.03703  WERE         'CLR_1'         .575         34KV'         17.0034         0.003971         15		GILL ENERGY GENTER 130KV				
WERE         'GILL ENERGY CENTER 138KV'         84.99999         -0.03703 [WERE         'CLR_1         .575         34KV'         17.0034         0.00092         -0.03795         15           WERE         'GILL ENERGY CENTER 138KV'         84.99999         -0.03703 [WERE         'COFFEY COUNTY NO.2 SHARPE 69KV'         19.97         0.00168         -0.03871         15		GILL ENERGY CENTER 138KV			CITY OF HIGGINSVILLE 69KV	35 0.0003 -0.03/33 15
WERE 'GILL ENERGY CENTER 138KV' 84.99999 -0.03703 WERE COFFEY COUNTY NO. 2 SHARPE 69KV' 19.97 0.00168 -0.03871 15		GILL ENERGY CENTER 138KV			CITY OF IOLA 69KV	24.267 0.000/1 -0.03774 15
WERE         [GILL ENERGY CENTER 138K/         84.99999         -0.03703/WERE         [COFFEY COUNTY NO. 2 SHARPE 69K/         19.97         0.00168         -0.03871         15           Maximum Decrement and Maximum Increment room the Souce and Sink Operating Points in the study models where limiting facility was identified.         19.97         0.00168         -0.03871         15						
Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.		'GILL ENERGY CENTER 138KV'	84.99999	-0.03703 WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97 0.00168 -0.03871 15
	Maximum Decrement and Ma	aximum Increment were determine from the Souce and Sink Operation	ating Points in the	study models where li	miting facility was identified.	

Factor = Source GSF - Sink GSF Redispatch Amount = Relief Amount / Factor

Upgrade: Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed: Season Flowgate Identified: Evans - Grant - Chisolm Rebuild and Conversion Project CHISHOLM (CHISLM1X) 138/69/13.2KV TRANSFORMER CKT 1 From->To EVANS ENERGY CENTER NORTH - SEDGWICK COUNTY NO. 12 COLWICH 138KV CKT 1 CHIISLM1X14215704057065122085P Starting 2008 61' - 10/1 Until EOC 2008 Summer Peak Angregate Relief Aggregate Relief Amount Reservation Relief Amount 1161506 1161997 4.9 4.9 4.9 Sink Control 0.65F Area 118 -0.04997 [WERE 118 -0.04997 [WERE] 118 -0.0497 [WERE] Aggregate Redispatch Amount (MW) laximum Maximum Source GILL ENERGY CENTER 69KV' Sink CiTY OF BURLINGTON 69KV' CHANUTE 69KV TELK RIVER 345KV' LACYGNE UNIT 345KV' ARIES 161KV ASBURY 161KV BULL CREEK 161KV' GREENWOOD 161KV' GREENWOOD 161KV' (MW) GSF 34.061 0.00156 55.637 0.00086 ncrement(MW) Decrement(MW) Factor -0.05153 
 55.637
 0.00086

 150
 0.0007

 958
 0.00066

 300
 0.00037

 191
 0.00025

 308
 0.00042

 35
 0.0028

 169.885
 0.00036
 -0.05083 -0.05067 -0.05063 -0.05034 -0.05039 -0.05039 -0.05025 -0.05033

95 96

VERE	'GILL ENERGY CENTER 69KV'	118	-0.04997		'HAWTHORN 161KV'	769	0.00031	-0.05028	9
VERE	'GILL ENERGY CENTER 69KV'	118	-0.04997		'IATAN 345KV'	396	0.00024	-0.05021	9
VERE	GILL ENERGY CENTER 69KV'	118	-0.04997 -0.04997		'LAKE ROAD 161KV' 'LAKE ROAD 34KV'	35	0.00021	-0.05018 -0.05018	9
VERE	GILL ENERGY CENTER 69KV	118	-0.04997		'LAKE ROAD 34KV' 'LANG 7 345 345KV'	92	0.00021	-0.05018	9
/ERE	'GILL ENERGY CENTER 69KV'	118	-0.04997		'LARUSSEL 161KV'	116	0.00017	-0.05014	9
VERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	WERE	'LAWRENCE ENERGY CENTER 230KV'	251.3459	0.00032	-0.05029	9
VERE	GILL ENERGY CENTER 69KV	118	-0.04997	KACP	'MONTROSE 161KV'	352.0817	0.00032	-0.05029	9
VERE VERE	'GILL ENERGY CENTER 69KV' 'GILL ENERGY CENTER 69KV'	118	-0.04997 -0.04997	KACY	'NEARMAN 161KV' 'NEARMAN 20KV'	220	0.00034	-0.05031	9
VERE	GILL ENERGY CENTER 69KV	118	-0.04997		PAOLA COMBUSTION TURBINES 161KV	63.0542	0.00034	-0.05031	9
VERE	GILL ENERGY CENTER 69KV	118	-0.04997		OUINDARO 161KV	135,2048	0.00048	-0.05031	9
VERE	GILL ENERGY CENTER 69KV	118	-0.04997		QUINDARO 69KV	140	0.00034	-0.05031	9
VERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	EMDE	'RIVERTON 161KV'	88.89612	0.00018	-0.05015	9
VERE	'GILL ENERGY CENTER 69KV'	118	-0.04997		'RIVERTON 69KV'	41.92348	0.00017	-0.05014	9
VERE	'GILL ENERGY CENTER 69KV'	118	-0.04997		SIBLEY 161KV	231.6823	0.00031	-0.05028	9
VERE	'GILL ENERGY CENTER 69KV' 'GILL ENERGY CENTER 69KV'	118	-0.04997 -0.04997		'SIBLEY 69KV' 'SOUTH HARPER 161KV'	45.99999	0.00031	-0.05028	9
VERE	GILL ENERGY CENTER 69KV	118	-0.04997		STATE LINE 161KV	315	0.0004	-0.05037	9
VERE	GILL ENERGY CENTER 69KV	118	-0.04997		TECUMSEH ENERGY CENTER 115KV	108	0.00038	-0.05035	9
VERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	OKGE	'AES 161KV'	320	-0.00011	-0.04986	9
VERE	'GILL ENERGY CENTER 69KV'	118	-0.04997		'CLIFTON 115KV'	58.49084	-0.0003	-0.04967	9
VERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	AEPW	'COGENTRIX 345KV'	200	-0.00016	-0.04981	9
VERE	GILL ENERGY CENTER 69KV	118	-0.04997	AEPW	'EASTMAN 138KV'	355	-0.00016	-0.04981	9
VERE	'GILL ENERGY CENTER 69KV' 'GILL ENERGY CENTER 69KV'	118	-0.04997 -0.04997		'FITZHUGH 161KV' 'FLINT CREEK 161KV'	126	-0.00009	-0.04988 -0.04996	9
/ERE	GILL ENERGY CENTER 69KV	118	-0.04997	WERE	JEFFREY ENERGY CENTER 230KV	428	-0.00001	-0.04996	9
VERE	GILL ENERGY CENTER 69KV	110	-0.04997		JEFFREY ENERGY CENTER 345KV	940	0.00008	-0.05005	9
VERE	GILL ENERGY CENTER 69KV	118	-0.04997		'KNOXLEE 138KV'	225	-0.00015	-0.03003	9
VERE	'GILL ENERGY CENTER 69KV'	118			LEBROCK 345KV	465	-0.00016	-0.04981	9
VERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	AEPW	'LIEBERMAN 138KV'	73.99999	-0.00014	-0.04983	9
/ERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	OKGE	'MUSKOGEE 161KV'	166	-0.00014	-0.04983	9
VERE	GILL ENERGY CENTER 69KV	118	-0.04997	OKGE	'MUSKOGEE 345KV'	1516	-0.00015	-0.04982	9
VERE	GILL ENERGY CENTER 69KV' GILL ENERGY CENTER 69KV'	118	-0.04997 -0.04997		'NORTHEASTERN STATION 138KV' 'NORTHEASTERN STATION 345KV'	500	-0.00011	-0.04986 -0.04995	9
/ERE	GILL ENERGY CENTER 69KV	118	-0.04997		OEC 345KV	369	-0.00002	-0.04995	9
/ERE	GILL ENERGY CENTER 69KV	118	-0.04997		'PIRKEY GENERATION 138KV'	490	-0.00012	-0.04981	9
VERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	AEPW	'RIVERSIDE STATION 138KV'	640	-0.00017	-0.0498	9
VERE	'GILL ENERGY CENTER 69KV'	118	-0.04997		'TULSA POWER STATION 138KV'	186	-0.00016	-0.04981	9
VERE	'GILL ENERGY CENTER 69KV'	118	-0.04997		WELEETKA 138KV'	84	-0.00027	-0.0497	9
/ERE	GILL ENERGY CENTER 69KV	118	-0.04997	AEPW	WELSH 345KV	1044	-0.00017	-0.0498	9
/ERE /ERE	'GILL ENERGY CENTER 69KV' 'GILL ENERGY CENTER 69KV'	118	-0.04997 -0.04997		WILKES 138KV' WILKES 345KV'	350.9901	-0.00016 -0.00016	-0.04981 -0.04981	9
VERE	GILL ENERGY CENTER 69KV	118	-0.04997	WERE	ABILENE ENERGY CENTER 115KV	40	-0.00018	-0.04981	9
VERE	GILL ENERGY CENTER 69KV	118	-0.04997	AFPW	COMANCHE 138KV	160	-0.00056	-0.04941	9
VERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	AEPW	COMANCHE 69KV	63	-0.00056	-0.04941	9
VERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	OKGE	'HORSESHOE LAKE 138KV'	851.5	-0.00047	-0.0495	9
VERE	'GILL ENERGY CENTER 69KV'	118	-0.04997		'MCCLAIN 138KV'	478	-0.00048	-0.04949	99
VERE	GILL ENERGY CENTER 69KV	118	-0.04997	OKGE	'MUSTANG 138KV'	365.5	-0.00049	-0.04948	99
VERE	GILL ENERGY CENTER 69KV	118	-0.04997		'MUSTANG 69KV' 'ONE OAK 345KV'	106	-0.0005	-0.04947 -0.04943	9
VERE VERE	GILL ENERGY CENTER 69KV GILL ENERGY CENTER 69KV	118	-0.04997 -0.04997	OKGE	REDBUD 345KV	250	-0.00054	-0.04943	9
VERE	GILL ENERGY CENTER 69KV	118	-0.04997		SEMINOLE 138KV	485.0313	-0.00043	-0.04954	9
VERE	GILL ENERGY CENTER 69KV	118	-0.04997		SEMINOLE 345KV	996	-0.00043	-0.04954	9
VERE	'GILL ENERGY CENTER 69KV'	118	-0.04997		'SMITH COGEN 138KV'	120	-0.00049	-0.04948	9
VERE	'GILL ENERGY CENTER 69KV'	118	-0.04997		'SOONER 345KV'	513	-0.00076	-0.04921	9
VERE	'GILL ENERGY CENTER 69KV'	118	-0.04997		'SOUTHWESTERN STATION 138KV'	257	-0.00056	-0.04941	9
VERE	GILL ENERGY CENTER 69KV' GILL ENERGY CENTER 69KV'	118	-0.04997 -0.04997		'SMOKEY HILLS 34KV' 'SOONER 138KV'	152	-0.00113 -0.00134	-0.04884 -0.04863	10
VERE	GILL ENERGY CENTER 69KV	118	-0.04997		HUTCHINSON ENERGY CENTER 115KV	191.3125	-0.00134	-0.04803	10
VERE	GILL ENERGY CENTER 69KV	118	-0.04997		'KNOLL 3 115 115KV'	75	-0.00188	-0.04809	10
VERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	WERE	'EVANS ENERGY CENTER 138KV'	305	-0.00278	-0.04719	103
VERE	'GILL ENERGY CENTER 69KV'	118	-0.04997		'OMPA-PONCA CITY 69KV'	157.2592	-0.00249	-0.04748	10:
VERE	'GILL ENERGY CENTER 69KV'	118	-0.04997		'A. M. MULLERGREN GENERATOR 115KV'	63	-0.00287	-0.0471	10
VERE	'GILL ENERGY CENTER 69KV'	118	-0.04997		'GRAY COUNTY WIND FARM 115KV'	60	-0.00506	-0.04491	10
VERE	GILL ENERGY CENTER 69KV	118	-0.04997		JUDSON LARGE 115KV	106.7974	-0.00509	-0.04488	10
VERE	'GILL ENERGY CENTER 138KV' 'GILL ENERGY CENTER 138KV'	84.99999 84.99999	-0.03655		'CHANUTE 69KV' 'ELK RIVER 345KV'	55.637	0.00086	-0.03741 -0.03725	13
/ERE	GILL ENERGY CENTER 138KV	84.99999	-0.03655		LACYGNE UNIT 345KV	150	0.0007	-0.03725	13
/ERE	GILL ENERGY CENTER 138KV	84.99999	-0.03655		ARIES 161KV	300	0.00037	-0.03721	13
/ERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	KACP	'BULL CREEK 161KV'	308	0.00042	-0.03697	13
/ERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	MIPU	'GREENWOOD 161KV'	169.885	0.00036	-0.03691	13
/ERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655		'HAWTHORN 161KV'	769	0.00031	-0.03686	13
VERE	GILL ENERGY CENTER 138KV	84.99999	-0.03655		LANG 7 345 345KV	310	0.00035	-0.0369	13
/ERE /ERE	GILL ENERGY CENTER 138KV GILL ENERGY CENTER 138KV	84.99999 84.99999	-0.03655 -0.03655		'LAWRENCE ENERGY CENTER 230KV' 'MONTROSE 161KV'	251.3459 352.0817	0.00032	-0.03687 -0.03687	13
/ERE	GILL ENERGY CENTER 138KV	84.99999	-0.03655		NEARMAN 161KV	352.0817	0.00032	-0.03687	13
/ERE	GILL ENERGY CENTER 138KV	84.99999	-0.03655	KACY	'NEARMAN 20KV'	220	0.00034	-0.03689	13
/ERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	KACP	'PAOLA COMBUSTION TURBINES 161KV'	63.0542	0.00048	-0.03703	13
/ERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	KACY	'QUINDARO 161KV'	135.2048	0.00034	-0.03689	13
/ERE	GILL ENERGY CENTER 138KV	84.99999	-0.03655		QUINDARO 69KV	140	0.00034	-0.03689	13
ERE	GILL ENERGY CENTER 138KV	84.99999	-0.03655		SIBLEY 161KV	231.6823	0.00031	-0.03686	13
/ERE	GILL ENERGY CENTER 138KV	84.99999 84.99999	-0.03655		'SIBLEY 69KV' 'SOUTH HARPER 161KV'	45.99999	0.00031	-0.03686 -0.03695	13
/ERE	GILL ENERGY CENTER 138KV GILL ENERGY CENTER 138KV	84.99999	-0.03655	WERE	TECUMSEH ENERGY CENTER 115KV	315	0.0004	-0.03695	13
VERE	GILL ENERGY CENTER 138KV	84.99999		EMDE	ASBURY 161KV	108	0.00038	-0.0368	13
/ERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	KACP	'IATAN 345KV'	396	0.00024	-0.03679	13
/ERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00008	-0.03663	13
/ERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00008	-0.03663	13
/ERE	'GILL ENERGY CENTER 138KV'	84.99999			LAKE ROAD 34KV	92	0.00021	-0.03676	13
									133
VERE	GILL ENERGY CENTER 138KV and Maximum Increment were determine from the Souce and	84.99999	-0.03655	EMDE	'LARUSSEL 161KV'	110	0.00017	-0.03672	13

Flowgate:	EXIDE JUNCTION - NORTH AMERICAN PHILIPS 115KV CK EXIDE JUNCTION - NORTH AMERICAN PHILIPS 115KV CK Form-sTo EAST MCPHERSON - SUMMIT 230KV CKT 1 573685737216587256873122075H 6/1 - 10/1 Until EOC f Upgrade 2007 Summer Shoulder	ST 1							
Reservation	Relief Amount	Aggregate Relief Amount							
1161997									
				Sink					Aggregate
		Maximum		Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF		Sink	Decrement(MW)	GSF		Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'AES 161KV'	320	-0.00065		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562		'ARIES 161KV'	300	0.00523	-0.30085	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562	EMDE	'ASBURY 161KV'	191	0.00139	-0.29701	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562		'CHANUTE 69KV'	46.617	0.00149	-0.29711	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562		'CITY OF AUGUSTA 69KV'	20	0.00049	-0.29611	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562		'CITY OF BURLINGTON 69KV'	27.75	0.00282	-0.29844	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562		CITY OF ERIE 69KV	23.258	0.00149	-0.29711	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562		'CITY OF FREDONIA 69KV'	2.496	0.00117	-0.29679	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562		'CITY OF GIRARD 69KV'	2.989	0.00153		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562	WERE	'CITY OF IOLA 69KV'	19.865	0.00174	-0.29736	2

WEDE		050	0.00500	MEDE		0.400	0.00005	0.00/77
WERE	'BPU - CITY OF MCPHERSON 115KV' 'BPU - CITY OF MCPHERSON 115KV'	259 259	-0.29562 -0.29562	WERE	CITY OF MULVANE 69KV' CITY OF NEODESHA 69KV'	6.189 2.495	-0.00085 0.00106	-0.29477 -0.29668
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.29562		CITY OF WINFIELD 69KV	16.47	-0.00097	-0.29008
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562		'CLR_1 .575 34KV'	40.0044	0.00128	-0.2969
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.29562		COFFEY COUNTY NO. 2 SHARPE 69KV	19.96	0.00282	-0.29844
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562	AEPW	'COGENTRIX 345KV'	200	-0.00094	-0.29468
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562	WERE	'COLBY 115KV'	4.028258	-0.03671	-0.25891
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562		'COMANCHE 138KV'	160	-0.00614	-0.28948
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562	AEPW	'COMANCHE 69KV'	63	-0.0061	-0.28952
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562		'EASTMAN 138KV'	355	-0.00119	-0.29443
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562		'ELK RIVER 345KV'	150	0.00128	-0.2969
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562		'EVANS ENERGY CENTER 138KV'	270.5388	0.00013	-0.29575
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.29562	AEPW	'FITZHUGH 161KV'	7.999987	-0.00051	-0.29511
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.29562	AEPW	'FLINT CREEK 161KV'	400	0.00003	-0.29565
WERE	BPU - CITY OF MCPHERSON 115KV	259		WERE	GILL ENERGY CENTER 138KV	77	-0.00315	-0.29247
WERE	BPU - CITY OF MCPHERSON 115KV	259 259	-0.29562		HAWTHORN 161KV	661.084	0.00529	-0.30091
WERE	'BPU - CITY OF MCPHERSON 115KV' 'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562 -0.29562		'HORSESHOE LAKE 138KV' 'HORSESHOE LAKE 69KV'	91	-0.00297 -0.00291	-0.29265 -0.29271
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.29562		IATAN 345KV	396	-0.00291	-0.29271 -0.30322
WERE	BPU - CITY OF MCPHERSON 115KV 'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562		JEFFREY ENERGY CENTER 230KV	470	0.0076	-0.3128
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.29562		JEFFREY ENERGY CENTER 345KV	940	0.02299	-0.31861
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.29562		KNOXLEE 138KV	103	-0.00118	-0.29444
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.29562		'L&D13 69KV'	105	-0.00058	-0.29504
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.29562		'LACYGNE UNIT 345KV'	958	0.00478	-0.3004
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562		'LAKE ROAD 161KV'	35	0.00444	-0.30006
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		MIPU	'LAKE ROAD 34KV'	92	0.00444	-0.30006
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562	WERE	'LAWRENCE ENERGY CENTER 230KV'	235.4122	0.00919	-0.30481
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		AEPW	'LEBROCK 345KV'	515	-0.00119	-0.29443
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562	AEPW	'LIEBERMAN 138KV'	4	-0.00109	-0.29453
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562	KACP	'MARSHALL 161KV'	15	0.0029	-0.29852
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562	OKGE	'MCCLAIN 138KV'	478	-0.00331	-0.29231
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562		'MONTROSE 161KV'	351.9386	0.0046	-0.30022
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562	OKGE	'MUSKOGEE 345KV'	1516	-0.00098	-0.29464
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562	OKGE	'MUSTANG 138KV'	57.76465	-0.00323	-0.29239
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562		'MUSTANG 69KV'	106	-0.00324	-0.29238
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562		'NARROWS 69KV'	22	-0.00152	-0.2941
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562		'NEARMAN 161KV'	77	0.00599	-0.30161
WERE	BPU - CITY OF MCPHERSON 115KV BPU - CITY OF MCPHERSON 115KV	259	-0.29562		'NEARMAN 20KV'	220	0.00599	-0.30161
WERE		259	-0.29562		NORTHEASTERN STATION 138KV	500	-0.00038	-0.29524
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.29562	AEPW	'NORTHEASTERN STATION 345KV'	608	-0.00019	-0.29543
WERE	'BPU - CITY OF MCPHERSON 115KV' 'BPU - CITY OF MCPHERSON 115KV'	259 259	-0.29562 -0.29562	OKGE	'OEC 345KV' 'OMPA-KAW 69KV'	419 19.7	-0.00072 -0.00194	-0.2949 -0.29368
								-0.29368
WERE	'BPU - CITY OF MCPHERSON 115KV' 'BPU - CITY OF MCPHERSON 115KV'	259 259	-0.29562 -0.29562		'OMPA-PONCA CITY 69KV' 'ONE OAK 345KV'	86.62021	-0.00194 -0.00293	-0.29368
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.29562		OZARK BEACH 161KV	16	0.00293	-0.29644
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562		PIRKEY GENERATION 138KV	440	-0.00118	-0.29444
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.29562		'QUINDARO 161KV'	116.9321	0.00596	-0.30158
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562		QUINDARO 69KV	89.12805	0.00594	-0.30156
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562		'REDBUD 345KV'	250	-0.00267	-0.29295
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		AEPW	'RIVERSIDE STATION 138KV'	482	-0.00093	-0.29469
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562		'RIVERTON 161KV'	38	0.00102	-0.29664
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562	EMDE	'RIVERTON 69KV'	44.82093	0.001	-0.29662
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562	OKGE	'SEMINOLE 138KV'	484.787	-0.00308	-0.29254
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562		'SEMINOLE 345KV'	996	-0.00301	-0.29261
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562		'SIBLEY 161KV'	229.0592	0.00491	-0.30053
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562		'SIBLEY 69KV'	45.99999	0.005	-0.30062
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562		'SMITH COGEN 138KV'	120	-0.00322	-0.2924
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		OKGE	SOONER 138KV	505	-0.00217	-0.29345
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.29562	OKGE MIPU	SOONER 345KV	513	-0.00236	-0.29326
WERE	BPU - CITY OF MCPHERSON 115KV	259			SOUTH HARPER 161KV	269.6653	0.00556	-0.30118
WERE	'BPU - CITY OF MCPHERSON 115KV' 'BPU - CITY OF MCPHERSON 115KV'	259 259	-0.29562 -0.29562	AEPW	'SOUTHWESTERN STATION 138KV' 'STATE LINE 161KV'	155 471.4843	-0.00606	-0.28956 -0.29664
								-0.29664
WERE	'BPU - CITY OF MCPHERSON 115KV' 'BPU - CITY OF MCPHERSON 115KV'	259 259	-0.29562 -0.29562		TECUMSEH ENERGY CENTER 115KV' TULSA POWER STATION 138KV'	108 77	0.00844	-0.30406
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.29562	WERE	WACO 138KV	17.947	-0.00282	-0.2928
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.29562		WELSH 345KV	960	-0.00133	-0.29429
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562		WILKES 138KV	139.7875	-0.00123	-0.29439
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562		'WILKES 345KV'	158.9639	-0.00121	-0.29441
WERE	'HUTCHINSON ENERGY CENTER 115KV'	381	-0.23794	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02299	-0.26093
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.23783	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02299	-0.26082
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562	WEPL	'A. M. MULLERGREN GENERATOR 115KV'	63	-0.11131	-0.18431
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562		'GRAY COUNTY WIND FARM 115KV'	73	-0.07541	-0.22021
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562		'JUDSON LARGE 115KV'	100.033	-0.07536	-0.22026
WERE	HUTCHINSON ENERGY CENTER 115KV	381	-0.23794		'AES 161KV'	320	-0.00065	-0.23729
WERE	HUTCHINSON ENERGY CENTER 115KV	381	-0.23794	MIPU	ARIES 161KV	300	0.00523	-0.24317
WERE	HUTCHINSON ENERGY CENTER 115KV	381		EMDE	ASBURY 161KV	191	0.00139	-0.23933
WERE	HUTCHINSON ENERGY CENTER 115KV	381 381	-0.23794	WERE	CHANUTE 69KV	46.617	0.00149	-0.23943 -0.23843
WERE	HUTCHINSON ENERGY CENTER 115KV	381 381	-0.23794		CITY OF AUGUSTA 69KV'	20 27.75	0.00049	-0.23843
WERE	HUTCHINSON ENERGY CENTER 115KV HUTCHINSON ENERGY CENTER 115KV	381	-0.23794 -0.23794	WERE	CITY OF BURLINGTON 69KV' CITY OF ERIE 69KV'	27.75	0.00282 0.00149	-0.23943
WERE	HUTCHINSON ENERGY CENTER 115KV	381			CITY OF FREDONIA 69KV	2.496	0.00149	-0.23911
WERE	HUTCHINSON ENERGY CENTER 115KV	381	-0.23794		CITY OF FREDONIA 69KV	2.490	0.00117	-0.23911
WERE	HUTCHINSON ENERGY CENTER 115KV	381	-0.23794		CITY OF IOLA 69KV	19.865	0.00133	-0.23968
WERE	HUTCHINSON ENERGY CENTER 115KV	381	-0.23794	WERF	CITY OF MULVANE 69KV	6.189	-0.00085	-0.23709
WERE	'HUTCHINSON ENERGY CENTER 115KV'	381	-0.23794	WERE	CITY OF NEODESHA 69KV	2.495	0.00106	-0.239
WERE	'HUTCHINSON ENERGY CENTER 115KV'	381		WERE	'CITY OF WINFIELD 69KV'	16.47	-0.00097	-0.23697
WERE	'HUTCHINSON ENERGY CENTER 115KV'	381		WERE	'CLR_1 .575 34KV'	40.0044	0.00128	-0.23922
WERE	'HUTCHINSON ENERGY CENTER 115KV'	381	-0.23794	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.00282	-0.24076
WERE	'HUTCHINSON ENERGY CENTER 115KV'	381	-0.23794	AEPW	COGENTRIX 345KV	200	-0.00094	-0.237
WERE	'HUTCHINSON ENERGY CENTER 115KV'	381			COLBY 115KV	4.028258	-0.03671	-0.20123
Maximum Decrement and Mar	ximum Increment were determine from the Souce and Sink Operating Po	pints in the						-

Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified. Factor = Source GSF - Sink GSF Redispatch Amount = Relief Amount / Factor

Upgrade: Limiting Facility: Direction: Line Outage: Flowgate:	EXIDE JUNCTION - NORTH AMERICAN PHILIPS 115KV CK EXIDE JUNCTION - NORTH AMERICAN PHILIPS 115KV CK From->To EAST MCPHERSON - SUMMIT 230KV CKT 1 573685737215687256873122065P									
Date Redispatch Needed:	Starting 2008 6/1 - 10/1 Until EOC									
Season Flowgate Identified:	2008 Summer Peak	1		1						
Reservation	Relief Amount	Aggregate R Amount	enet							
Reservation 1161506			14.4							
1161997			14.4							
1101997	0.0		14.4		Sink		1		1	Aggregate
		Maximum			Control		Maximum			Redispatch
Source Control Area	Source	Increment(M	W)	GSF	Area	Sink		GSF	Factor	Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'		259	-0.28457		SMOKEY HILLS 34KV	152	0.06204	-0.34661	
WERE	'BPU - CITY OF MCPHERSON 115KV'		259	-0.28457		JEFFREY ENERGY CENTER 345KV	940	0.0196		
WERE	'BPU - CITY OF MCPHERSON 115KV'		259	-0.28457	WERE	JEFFREY ENERGY CENTER 230KV	470	0.01387	-0.29844	48
WERE	'BPU - CITY OF MCPHERSON 115KV'		259	-0.28457	KACP	'IATAN 345KV'	396	0.00627	-0.29084	49
WERE	'BPU - CITY OF MCPHERSON 115KV'		259	-0.28457	WERE	'LANG 7 345 345KV'	310	0.00734	-0.29191	49
WERE	'BPU - CITY OF MCPHERSON 115KV'		259	-0.28457	WERE	'LAWRENCE ENERGY CENTER 230KV'	251.3459	0.00692	-0.29149	49
WERE	'BPU - CITY OF MCPHERSON 115KV'		259	-0.28457	WERE	TECUMSEH ENERGY CENTER 115KV	108	0.00606	-0.29063	49
WERE	'BPU - CITY OF MCPHERSON 115KV'		259	-0.28457	MIPU	'ARIES 161KV'	300	0.00421	-0.28878	50
WERE	'BPU - CITY OF MCPHERSON 115KV'		259	-0.28457	EMDE	'ASBURY 161KV'	191	0.00112	-0.28569	50
WERE	'BPU - CITY OF MCPHERSON 115KV'		259	-0.28457	KACP	'BULL CREEK 161KV'	308	0.00509	-0.28966	50

	WERE	'BPU - CITY OF MCPHERSON 115KV'	259	0.00457 WEDE	'CHANUTE 69KV'	55.637	0.00118 -0.28575 50
				-0.26457 WERE			0.000118 -0.26575 50
		BPU - CITY OF MCPHERSON 115KV		-0 28457 WERE		34.061	0.00213 -0.2867 50
		'BPU - CITY OF MCPHERSON 115KV'		-0.28457 WERE	CITY OF ERIE 69KV		0.00118 -0.28575 50
Model         Model <th< td=""><td></td><td>'BPU - CITY OF MCPHERSON 115KV'</td><td></td><td>-0.28457 KACP</td><td>CITY OF HIGGINSVILLE 69KV</td><td></td><td>0.00329 -0.28786 50</td></th<>		'BPU - CITY OF MCPHERSON 115KV'		-0.28457 KACP	CITY OF HIGGINSVILLE 69KV		0.00329 -0.28786 50
No. C. P. M. C. P. M. MARCON, I. S. M. C. M.	WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457 WERE		24.471	0.00139 -0.28596 50
WHOLE         WHOLE <th< td=""><td></td><td>'BPU - CITY OF MCPHERSON 115KV'</td><td></td><td></td><td>'CLR_1 .575 34KV'</td><td></td><td></td></th<>		'BPU - CITY OF MCPHERSON 115KV'			'CLR_1 .575 34KV'		
NUME         PLU CONSTRUMENTS         SED 4200 (2007)		'BPU - CITY OF MCPHERSON 115KV'					
Bits         Bits         Control Monitory		'BPU - CITY OF MCPHERSON 115KV'					
NEEE         BL, CTO & MCHREDAL 100/Y         SED         CAMP DAY         Monto State         Monto State <t< td=""><td></td><td>BPU - CITY OF MCPHERSON 115KV</td><td></td><td>-0.28457 AEPW</td><td>FLINT CREEK 161KV</td><td></td><td>0.00002 -0.28459 50</td></t<>		BPU - CITY OF MCPHERSON 115KV		-0.28457 AEPW	FLINT CREEK 161KV		0.00002 -0.28459 50
BRD         BRD         DEC         DEC <thdec< th=""> <thdec< th=""> <thdec< th=""></thdec<></thdec<></thdec<>		BPU - CITY OF MCPHERSON 115KV	259	-0.28457 MIPU	GREENWOOD 161KV	169.885	0.0042 -0.28877 50
Differ         Op/L         <		PDU CITY OF MCPHERSON 115KV					
Infer         BPC-01707 MOVERSON BIOV         258         4.0850 UUV         LARE REDU SAVC         BD         LDD         4.0850 UUV         ADD		BPU - CITY OF MCPHERSON 115KV		-0.28457 MIRLI	LACTONE ONT SASKV		
BEE         BULCTON MONESCOL 1990/C         ABIL         ABI							
Bits         Bit Unit of Monession         Iss.         Additional Control         The Control         Contro         C		'BPU - CITY OF MCPHERSON 115KV'		-0.28457 EMDE	'LARUSSEL 161KV'		0.0009 -0.28547 50
Info         BN-101 OF WARRESON 1900/         320         Additional Data         Constrained Data         C			259				0.00371 -0.28828 50
Bit UP OF MURRESON INSV         200         Absorb (CA)         PRACE CONSULTS' VIGNAL SERVICE         Disks 1 mode         Disks 1 mode <thdisks 1="" mode<="" th="">         Disks 1 mode</thdisks>		'BPU - CITY OF MCPHERSON 115KV'		-0.28457 KACY	'NEARMAN 161KV'		0.00484 -0.28941 50
URLE         UPUL TO Y MONSESSAL INSV         320         ALEY AL         Distance Origination         Distance Origination <thdistance origination<="" th="">         Distance Origi</thdistance>		'BPU - CITY OF MCPHERSON 115KV'			'NEARMAN 20KV'	220	0.00484 -0.28941 50
WHEE         UP-CIT OF MUDRESDA 1190Y         250         2.3287 [ACX         2.3287 [ACX         2.3287 [ACX         2.3287 [ACX         3.3287 [ACX	WERE	'BPU - CITY OF MCPHERSON 115KV'					
WHEE         WD.C.TY OF MOMERSON 1180V         280         49847         DEET ON 1611V         980000         4.6838         A           WHEE         WD.C.TY OF MOMERSON 1180V         22         44401         WD.C.TY OF MOMERSON 1180V         42         44401	WERE	'BPU - CITY OF MCPHERSON 115KV'					0.00481 -0.28938 50
NEEE         OP. CTY OF MAPPERSON 1997         220         4.880 [DR 200]         PRETON GRV         41 (200)         4.000         4.800		BPU - CITY OF MCPHERSON 115KV					
MEE         PUL OT VI MAPPERDIN 1987         286         Abbrit VI MAPPERDIN 1987         281         Abbrit VI MAPPERDIN 1987         281 <td>WERE</td> <td>BPU - CITY OF MCPHERSON 115KV</td> <td>259</td> <td>-0.28457 EMDE</td> <td>RIVERTON 161KV</td> <td>88.89612</td> <td>0.00082 -0.28539 50</td>	WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.28457 EMDE	RIVERTON 161KV	88.89612	0.00082 -0.28539 50
MEEE         BUL CTY OF MOMENSION 189/         220         24827 MBU         SEE / BWU TO TOW MOVESSION 189/         58000         0.0880         38000         0.0880           WIRE         WU CTY OF MOMENSION 189/         304.007         6.11.8 MV         100         0.0000         0.0		BPU - CITY OF MCPHERSON 115KV					0.00396 -0.28853 50
NEED:         BPL-OITY OF MORPHESON 1190Y         239         2.383/WUP         DOUTH MARKET NEW         311         0.0441         2.303         6           VEREE         VERDENCONCONTRE REV         67         2.222         VERE         SUMPERSON 1190Y         320         0.223         0.224         0.222         VERE         SUMPERSON 1190Y         320         0.223							
INFEC         IDPL CITY OF MCPRESON 115V         200         2342/FEDDE         TXTE LIPE 31V         600         0.0000         23239         68           VICE         VICT INFORMER'S CHITER NOV         230         2342/FEDDE         STATE LIPE 31V         100 </td <td></td> <td>BPU - CITY OF MCPHERSON 115KV</td> <td></td> <td>-0.28457 MIPU</td> <td>SOUTH HARPER 161KV</td> <td></td> <td>0.00403 -0.2800 50</td>		BPU - CITY OF MCPHERSON 115KV		-0.28457 MIPU	SOUTH HARPER 161KV		0.00403 -0.2800 50
WHEE         HUTGHESON REGIO CHEER 155V         30.887         -0.2224 WREE         SUDJECT HLS MV         161         0.0500         0.2386         0.0500         0.							
NUTCH NUCL NEERON CARTER DAY         OF         0.2223 (NPER         SURCEY NULL SHOW         105         0.000 (0.200)         0.2231 (NPER         0.000 (0.200)         0.2231 (NPER         0.000 (0.200)         0.2331 (NPER         0.000 (0.200)         0.2331 (NPER         0.000 (0.200)         0.2331 (NPER         0.000 (0.200) <td></td> <td>'HUTCHINSON ENERGY CENTER 115KV'</td> <td></td> <td></td> <td></td> <td></td> <td>0.06204 -0.28498 50</td>		'HUTCHINSON ENERGY CENTER 115KV'					0.06204 -0.28498 50
MEEE         PPCTV of MOPHESON 118V         280         4.984         ONE         ALS         0.0001         0.2001         0	WERE	'HUTCHINSON ENERGY CENTER 69KV'		-0.22283 WERE	'SMOKEY HILLS 34KV'	152	0.06204 -0.28487 50
MERE         PP-/-CIT/OF MCH-RESON 1182/         238         4.842/VER         CIT/OF WORKING JBBOY         22.71         4.0008         4.2271         4.0008         4.2271         4.0008         4.2271         4.0008         4.2271         4.0008         4.2271         4.0008         4.2271         4.0008         4.2021         4.2011 <th< td=""><td>WERE</td><td>'BPU - CITY OF MCPHERSON 115KV'</td><td>259</td><td>-0.28457 OKGE</td><td>'AES 161KV'</td><td>320</td><td>-0.00051 -0.28406 51</td></th<>	WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457 OKGE	'AES 161KV'	320	-0.00051 -0.28406 51
MPRE         MPD. CTV OF MCPHERON 118X/         238         4.5847         APPV         COMANCE 158V/         161         0.0081         0.2771         4.5           MERE         MPD. CTV OF MCPHERON 118X/         236         3.581 / JAPP         COMANCE 158V/         3.51							-0.00086 -0.28371 51
WREE         BPU_CITYOF MCPHERSON 115V         229         2.3857 JAPV         COMMONE GeV         65         0.40070         2.7275         65           WREE         BPU_CITYOF MCPHERSON 115V         229         2.3857 JAEV         1000         0.2357         65           WREE         BPU_CITYOF MCPHERSON 115V         229         2.3857 JAEV         1100							-0.00074 -0.28383 51
WREE         BPU_CITY & MCHESSON 115V         286         0.8487         MER         Set Constraints         356         0.0007         0.256         0.0007         0.256         0.0007         0.256         0.0007         0.256         0.0007         0.256         0.0007         0.256         0.0007         0.256         0.0007         0.2567         0.0007         0.2567         0.0007         0.2567         0.0007         0.2567         0.0007         0.2567         0.0007         0.2577         0.0007         0.2577         0.0007         0.2577         0.0007         0.2577         0.0007         0.2577         0.2577         0.0007         0.2577         0.0007         0.2577         0.0007         0.2577         0.0007         0.2577         0.0007         0.2577         0.0007         0.2577         0.0007         0.2577         0.0007         0.2577         0.0007         0.2577         0.0007         0.2578         0.0007         0.2578         0.0007         0.2578         0.0007         0.2578         0.0007         0.2578         0.0007         0.2588         0.0007         0.2588         0.0007         0.2588         0.0007         0.2588         0.0007         0.2588         0.0007         0.2588         0.0007         0.2588 <t< td=""><td></td><td>BPU - CITY OF MCPHERSON 115KV</td><td>259</td><td>-0.28457 AEPW</td><td>COMANCHE 138KV</td><td>160</td><td>-0.00486 -0.27971 51</td></t<>		BPU - CITY OF MCPHERSON 115KV	259	-0.28457 AEPW	COMANCHE 138KV	160	-0.00486 -0.27971 51
WREE         BPU_CITYO MCPHESION 1156V         220         2.887         REE         TAVAS DIRREGY CENTRE 1384V         336         4.0007         0.346         6.1           VERE         BPU_CITYO MCPHESION 1156V         236         2387         ACT         6.1           WREE         BPU_CITYO MCPHESION 1156V         220         2387         PRE         10.1         PRE         0.000         2.317         6.1           WREE         BPU_CITYO MCPHESION 1156V         220         2.385         PRE         10.1         PRE         0.000         2.3282         8.1           WREE         BPU_CITYO MCPHESION 1156V         220         2.3454         PRE         10.1         PRE         2.000<		BPU - GITY OF MCPHERSON 115KV					
WREE         BPU_CITYO FMCHREBON 118V/         236         2.324/3 (APV         FTIZURUP 118V/         218         3.0004		BPU - CITY OF MCPHERSON 115KV					-0.00093 -0.28364 51
WRFE         BPU_CITYO FMOMERSION 118V/         2260         2287         APPL         PLUCTN INSV         2499999         0.00007         0.2837         81           WRFE         BPU_CITYO FMOMERSION 118V/         226         0.2847         MRE         0.0007         0.2837         0.38177         0.38177         0.38177							
WRRE         BPU_CITY OF MCHRERSON 118V/         226         0.2367/WRRE         GULL SNEROV/CHATER 158V/         155         0.0027         0.2372           WRRE         BPU_CITY OF MCHRERSON 118V/         226         0.2367/WRRE         MCRESSPICE LARE 158V/         681.0         0.0027         0.2372         0.0027         0.0028         0.00017         0.0027		BPU - CITY OF MCPHERSON 115KV		-0.26457 AEPW	FIIZHUGH INKV	24 00000	-0.0004 -0.26417 51
WREE         BPJ_CITY OF MOMERSON 198V         286         0.2867/062         HORSENEL XAF_USAV         661.5         0.0233         0.2824         6.1           WREE         BPJ_CITY OF MOMERSON 198V         259         0.2867/APV         HERDELTSON         225         0.008         0.2867         6.1           WREE         BPJ_CITY OF MOMERSON 198V         259         0.2867/APV         HERDELTSON         7.9999         0.008         0.2867         6.1           WREE         BPJ_CITY OF MOMERSON 198V         259         0.2867/OKE         WCLAN 138V         7.9999         0.008         0.2867         0.2867         0.008         0.2867         0.2867         0.008         0.2867         0.008         0.2867         0.008         0.2867         0.008         0.2867         0.008         0.2867         0.008         0.2867         0.008         0.2867         0.008         0.008         0.2867         0.008         0.008         0.008         0.2867         0.008         0.008         0.2867         0.008         0.008         0.2867         0.008         0.008         0.008         0.2867         0.008         0.008         0.008         0.008         0.008         0.008         0.008         0.008         0.008         0.008         <		BPU - CITY OF MCPHERSON 115KV		-0.28457 WERE	GILL ENERGY CENTER 138KV		-0.00007 -0.2037 51
WREE         BP/- GTY OF MOMERSON 1156V         256         0.0867         AEPA         YEE         225         0.0002         0.2888         61           VERE         BP/- GTY OF MOMERSON 1156V         256         0.2867         AEPA         77         0.0027         0.2828         61           VERE         BP/- GTY OF MOMERSON 1156V         256         0.2867         AEPA         77         0.0027         0.2828         631           VERE         BP/- GTY OF MOMERSON 1156V         256         0.2867         AGK         WUSKOGEE 151VY         166         0.0027         0.2828         631           VERE         BP/- GTY OF MOMERSON 1156V         256         0.2867         AGK         WUSKOGEE 151VY         166         0.0077         0.2828         631           WREE         BP/- GTY OF MOMERSON 1156V         256         0.2867         AUPA         ARADV         26         0.0110         0.2838         61           WREE         BP/- GTY OF MOMERSON 1156V         256         0.2867         AUPA         ARADV         26         0.0011         0.2442         0.011         0.2442         0.011         0.2442         0.011         0.2442         0.011         0.2442         0.0011         0.2442         0.021		BPU - CITY OF MCPHERSON 115KV					-0.00233 -0.28224 51
WREE         BPU-CITY OF MOMERSON 1156V         256         -0.9267/AEPW         LEBROAM 138V         7.25999         -0.0028         -0.23834         -61           WREE         BPU-CITY OF MOMERSON 1156V         256         -0.2467/AEPW         LIBBOAM 138V         7.15999         -0.0028         -0.23834         61           WREE         BPU-CITY OF MOMERSON 1156V         256         -0.2467/AEPW         LIBBOAM 138V         7.15999         -0.0028         -0.23834         61           WREE         BPU-CITY OF MOMERSON 1156V         256         -0.2467/AEPW         80.6170         -0.23834         61           WREE         BPU-CITY OF MOMERSON 1156V         256         -0.2467/AEPW         -0.000         -0.0001         -0.23834         61           WREE         BPU-CITY OF MOMERSON 1156V         256         -0.2467/AEPW         NORTHEASTERN STATON 346V         66         -0.0001         -0.24647         61           WREE         BPU-CITY OF MOMERSON 1156V         256         -0.2467/AEPW         NORTHEASTERN STATON 346V         66         -0.0001         -0.24447         61           WREE         BPU-CITY OF MOMERSON 1156V         256         -0.2467/AEPW         NORTHEASTERN STATON 346V         56         -0.24647         61           WREE	WERE						-0.00092 -0.28365 51
WRFE         BPU-CITY OF MCMERSON 115X/         259         -0.28467/AE/PV         LIBRAY         T5.99999         -0.00056         -0.2271         61           WRFE         BPU-CITY OF MCMERSON 115X/         236         -0.2847/AE/R         WCLAN 158V/         47         -0.00257         -0.228         61           WRFE         BPU-CITY OF MCMERSON 115X/         236         -0.2847/AE/R         WCRE         -0.0027         -0.238         61           WRFE         BPU-CITY OF MCMERSON 115X/         236         -0.2847/AE/R         WCRE         -0.0027         -0.238         61           WRFE         BPU-CITY OF MCMERSON 115X/         236         -0.2847/AE/R         NURRAUG 59K/         226         -0.2017         -0.2833         61           WRFE         BPU-CITY OF MCMERSON 115X/         236         -0.2847/AE/R         NURRAUG 59K/         286         -0.0016         -0.2832         61           WRFE         BPU-CITY OF MCMERSON 115X/         236         -0.2847/AE/R         NURRAUG 59K/         286         -0.0016         -0.2847         61           WRFE         BPU-CITY OF MCMERSON 115K/         236         -0.0016         -0.2847         61           WRFE         BPU-CITY OF MCMERSON 115K/         236         -0.2847		'BPU - CITY OF MCPHERSON 115KV'		-0.28457 AEPW	'LEBROCK 345KV'		-0.00093 -0.28364 51
WERE         BPU_CITY OF MCPHERSON 115V/         226         -0.2847 OKGE         MURCOGE 161KV         166         -0.0003         -0.2838         61           WERE         BPU_CITY OF MCPHERSON 115V/         226         -0.2847 OKGE         MURCOGE 345V/         3615         -0.0003         -0.2838         61           WERE         BPU_CITY OF MCPHERSON 115V/         226         -0.2847 OKGE         MUSTAWG 545V/         50         -0.0003         -0.2838         61           WERE         BPU_CITY OF MCPHERSON 115V/         226         -0.2847 AEPV         NORTHASTERN STATION 138V/         50         -0.0003         -0.2842         61           WERE         BPU_CITY OF MCPHERSON 115V/         226         -0.2847 AEPV         NORTHASTERN STATION 138V/         506         -0.00051         -0.2842         61           WERE         BPU_CITY OF MCPHERSON 115V/         226         -0.2847 AEPV         NORTHASTERN STATION 138V/         206         -0.00051         -0.2830         61           WERE         BPU_CITY OF MCPHERSON 115V/         226         -0.2847 AEPV         NORTHASTERN STATION 138V/         406         -0.00031         -0.2830         61           WERE         BPU_CITY OF MCPHERSON 115V/         226         -0.2847 AEPV         NPRES GENATION 138V/         406<		'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457 AEPW	'LIEBERMAN 138KV'	73.99999	-0.00086 -0.28371 51
WRFE         BPU_CITY OF MCPHERSON 115KV         226         -0.28457 OKGE         MUSRAGE 345KV         1516         -0.00071         -0.2838         611           WRFE         BPU_CITY OF MCPHERSON 115KV         226         -0.28457 OKGE         MUSRAGE 36KV         106         -0.00254         -0.2820         6.51           WRFE         BPU_CITY OF MCPHERSON 115KV         226         -0.28477 AGK         101         -0.00254         -0.2847         6.51           WRFE         BPU_CITY OF MCPHERSON 115KV         226         -0.28477 AGK         0.0001         -0.2847         6.51           WRFE         BPU_CITY OF MCPHERSON 115KV         226         -0.28477 AGK         0.0001         -0.2847         6.51           WRFE         BPU_CITY OF MCPHERSON 115KV         226         -0.28477 AGK         0.0001         -0.2847         6.51           WRFE         BPU_CITY OF MCPHERSON 115KV         226         -0.28477 AGK         0.0001         -0.2847         6.51           WRFE         BPU_CITY OF MCPHERSON 115KV         226         -0.28477 AGK         0.0001         -0.2847         6.51           WRFE         BPU_CITY OF MCPHERSON 115KV         226         -0.28477 AGK         0.0001         -0.2847         6.51           WRFE         <							
WRRE         BPU_CITY OF MCPHERSON 115V/         226         -0.8857 OKGE         MUSTANG 138V/         306.5         -0.00231         -0.8280         6.11           WRRE         BPU_CITY OF MCPHERSON 115W/         226         -0.8267 OKGE         MUSTANG 66V/         100         -0.0024         -0.8280         51           WRRE         BPU_CITY OF MCPHERSON 115W/         226         -0.8287 APV         NORTHASTERS STATION 138V/         226         -0.8287 APV         0.0011         -0.0024         -0.8280         -0.0011         -0.0024         -0.8280         -0.0015         -0.8280         -0.817         -0.0015         -0.2884         -0.0015         -0.8280         -0.011         -0.0015         -0.8280         -0.011         -0.0015         -0.8280         -0.011         -0.0115         -0.8280         -0.011         -0.0015         -0.8280         -0.011         -0.0025         -0.8280         -0.011         -0.0015         -0.8280         -0.011         -0.0015         -0.8280         -0.0015         -0.8280         -0.011         -0.0015         -0.8280         -0.011         -0.0015         -0.8280         -0.011         -0.0215         -0.8280         -0.011         -0.0115         -0.8280         -0.011         -0.0115         -0.0115         -0.0115         -0.01							
WERE         BPU-CITY OF MOPHERSON 115KV         229         0.28457/AEPW         NARROVG 68KV         22         0.00119         0.28338         61           WERE         BPU-CITY OF MOPHERSON 115KV         229         0.28467/AEPW         NORTHE-ASTERN STATION 345KV         665         0.0005         0.28442         61           WERE         BPU-CITY OF MOPHERSON 115KV         229         0.28457/AEPW         0.0005         0.28442         61           WERE         BPU-CITY OF MOPHERSON 115KV         228         0.28457/AEPW         0.0005         0.28402         61           WERE         BPU-CITY OF MOPHERSON 115KV         228         0.28457/AEPW         0.0004         0.0003         0.28261         61           WERE         BPU-CITY OF MOPHERSON 115KV         228         0.28457/AEPW         0.0004         0.0003         0.28264         61           WERE         BPU-CITY OF MOPHERSON 115KV         228         0.28457/AEPW         0.0004         0.0003         0.28264         61           WERE         BPU-CITY OF MOPHERSON 115KV         228         0.28457/AEPK         CBNARTON 138KV         660         0.0003         0.28264         61           WERE         BPU-CITY OF MOPHERSON 115KV         228         0.28457/AEPK         NORTINESKY		'BPU - CITY OF MCPHERSON 115KV'		-0.28457 OKGE	'MUSKOGEE 345KV'		-0.00077 -0.2838 51
WERE         BPU-CITY OF MOPHERSON 115KV         229         0.28457/AEPW         NARROVG 68KV         22         0.00119         0.28338         61           WERE         BPU-CITY OF MOPHERSON 115KV         229         0.28467/AEPW         NORTHE-ASTERN STATION 345KV         665         0.0005         0.28442         61           WERE         BPU-CITY OF MOPHERSON 115KV         229         0.28457/AEPW         0.0005         0.28442         61           WERE         BPU-CITY OF MOPHERSON 115KV         228         0.28457/AEPW         0.0005         0.28402         61           WERE         BPU-CITY OF MOPHERSON 115KV         228         0.28457/AEPW         0.0004         0.0003         0.28261         61           WERE         BPU-CITY OF MOPHERSON 115KV         228         0.28457/AEPW         0.0004         0.0003         0.28264         61           WERE         BPU-CITY OF MOPHERSON 115KV         228         0.28457/AEPW         0.0004         0.0003         0.28264         61           WERE         BPU-CITY OF MOPHERSON 115KV         228         0.28457/AEPK         CBNARTON 138KV         660         0.0003         0.28264         61           WERE         BPU-CITY OF MOPHERSON 115KV         228         0.28457/AEPK         NORTINESKY							-0.00253 -0.28204 51
WERE         PU - CITY OF MCPHERSON 115KV         289         -2.8457 AEPW         NORTHEASTERN STATION 136KV         6001         -0.20827         61           WERE         BPJ - CITY OF MCPHERSON 115KV         229         -2.8457 AEPW         NORTHEASTERN STATION 136KV         645         -0.0005         -2.8427         61           WERE         BPJ - CITY OF MCPHERSON 115KV         229         -2.8457 AEPW         NORTHEASTERN STATION 136KV         306         -0.0056         -0.3801         631           WERE         BPJ - CITY OF MCPHERSON 115KV         229         -2.8457 AEPW         PIKKY         300         -0.0028         631           WERE         BPJ - CITY OF MCPHERSON 115KV         229         -2.8457 AEPW         PIKKY         280         -0.8457 AEPW         PIKKY         400         -0.0028         -0.3824         511           WERE         BPJ - CITY OF MCPHERSON 115KV         229         -2.8457 AEPW         PIKKY CORK N15KV         460         -0.0021         -0.3245         511           WERE         BPJ - CITY OF MCPHERSON 115KV         229         -2.8457 AEPW         PIKKY CORK N15KV         460         -0.0021         -0.3245         511           WERE         BPJ - CITY OF MCPHERSON 115KV         229         -2.8457 AEPW         PIKKY CORK N15KV<							
WERE         PU - CITY OF MCPHERSON 115KV         2284-77 APPN         NORTH-EASTERN STATION 345KV         646         -0.0015         -0.284-2         51           WERE         BPU - CITY OF MCPHERSON 115KV         229         -0.284-77 APPN         CEC.35KV         3681         -0.0055         -0.28402         611           WERE         BPU - CITY OF MCPHERSON 115KV         229         -0.28477 CMEE         OMP-ACWA 64VY         172.282         -0.0055         -0.28302         611           WERE         BPU - CITY OF MCPHERSON 115KV         229         -0.28477 CMEE         OMP-ACWA 64VY         300         -0.0021         -0.28247         611           WERE         BPU - CITY OF MCPHERSON 115KV         229         -0.28477 CMEE         REDU - DATY OF MCPHERSON 115KV         229         -0.28477 CMEE         REDU - DATY OF MCPHERSON 115KV         229         -0.28477 CMEE         SEMINOLE 138KV         460         -0.0021         -0.28247         611           WERE         BPU - CITY OF MCPHERSON 115KV         229         -0.28477 CMEE         SEMINOLE 138KV         465         -0.0024         -0.28245         611           WERE         BPU - CITY OF MCPHERSON 115KV         229         -0.28477 CMEE         SEMINOLE 138KV         966         -0.0025         -0.28245         511							
WERE         BPU - CITY OF MCPHERSON 115V/         229         -0.28457 /MCRE         OPC - 345V/         2389         -0.0056         -0.28407         State           WERE         BPU - CITY OF MCPHERSON 115V/         229         -0.28457 /MCRE         MCRE         107         0.00156         -2.38302         511           WERE         BPU - CITY OF MCPHERSON 115V/         229         -0.28457 /MCRE         MCRE         0.00231         -2.03802         511           WERE         BPU - CITY OF MCPHERSON 115V/         229         -0.28457 /MCRE         MCRE         0.00231         -2.03804         451           WERE         BPU - CITY OF MCPHERSON 115V/         229         -0.28457 /MCRE         MCRE         0.000231         -2.03847         460         -0.00033         -2.03847         461           WERE         BPU - CITY OF MCPHERSON 115V/         229         -0.28457 /MCRE         SBN/CITY OF MCPHERSON 115V/         229         -0.28457 /MCRE         SBN/CITY OF MCPHERSON 115V/         229         -2.04857 /MCRE         SBN/CITY OF				-0.28457 AEPW			-0.0003 -0.28427 51
WERE         BPU - CITY OF MCPHERSON 115KV         2259         -0.28457 (XRGE         OMP-A-KAW 68KV         22.289392         -0.00155         -2.28302         511           WERE         BPU - CITY OF MCPHERSON 115KV         2259         -2.28457 (XRGE         OMP-A-KAW 68KV         300         -0.00155         -2.28302         511           WERE         BPU - CITY OF MCPHERSON 115KV         2259         -2.28457 (XRGE         CMRCF CENERATION 138KV         400         -0.00155         -2.2826         511           WERE         BPU - CITY OF MCPHERSON 115KV         2259         -2.28457 (XRGE         CRGE         CREMINDE STATION 138KV         460         -0.0021         2.2824         511           WERE         BPU - CITY OF MCPHERSON 115KV         2259         -2.28457 (XRGE         STATION 138KV         460         -0.0021         2.2824         511           WERE         BPU - CITY OF MCPHERSON 115KV         2259         -2.28457 (XRGE         STATIN 138KV         556         -0.0012         2.28263         511           WERE         BPU - CITY OF MCPHERSON 115KV         2259         -2.28457 (XRGE         STATIN 138KV         513         -0.00846         2.27894         511           WERE         BPU - CITY OF MCPHERSON 115KV         2259         -2.28457 (XRGE		BPU - CITY OF MCPHERSON 115KV					-0.00056 -0.28401 51
WERE         BPU_CITY OF MCPHERSON 115KV         2269         0.28457 (OKEG         OMPA-PONCA CITY 69KV         157.2522         0.00155         0.2302         51           WERE         BPU_CITY OF MCPHERSON 115KV         2259         0.28457 (OKEG         OMPA-PONCA CITY 69KV         4800         0.000231         0.28245         51           WERE         BPU_CITY OF MCPHERSON 115KV         2259         0.28457 (OKEG         MCPA         4800         0.000231         0.28245         51           WERE         BPU_CITY OF MCPHERSON 115KV         2259         0.28457 (OKEG         SEMMOLE 138KV         4600         0.000231         0.02284         51           WERE         BPU_CITY OF MCPHERSON 115KV         2259         0.28457 (OKEG         SEMMOLE 138KV         4856         0.00228         0.0228         6.16           WERE         BPU_CITY OF MCPHERSON 115KV         2259         0.28457 (OKEG         SEMMOLE 348KV         496         0.0028         0.28267         6.16           WERE         BPU_CITY OF MCPHERSON 115KV         2259         0.28457 (OKEG         SEMMOLE 348KV         4056         0.00172         0.28268         51           WERE         BPU_CITY OF MCPHERSON 115KV         2259         0.28457 (AFEW         SUCHES         SUCHES         0.00141 </td <td>WERE</td> <td></td> <td></td> <td></td> <td></td> <td>22,98392</td> <td>-0.00155 -0.28302 51</td>	WERE					22,98392	-0.00155 -0.28302 51
WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.28477 IAEPW         300         -0.0231         -0.28226         51           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.28477 IAEPW         PIRKEY GENERTION 138KV         260         -0.0021         -0.28224         51           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.28477 IAEPW         PIRKEY GENERTION 138KV         460         -0.0021         -0.28247         51           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.28477 IAEPW         486.033         -0.0021         -0.28245         51           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.28477 OKGE         SEMINGLE 33KV         486.03         -0.0021         -0.28285         51           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.28477 OKGE         SOOMER 138V         251         -0.017         -0.28285         51           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.28477 DKER         SOOMER 138V         2187         -0.0484         -0.27896         51           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.28477 DKERW         SOUTHWESTERN STATION 138KV         1287         -0.0048         -0.278		'BPU - CITY OF MCPHERSON 115KV'		-0.28457 OKGE	'OMPA-PONCA CITY 69KV'	157.2592	-0.00155 -0.28302 51
WERE         BPU - CITY OF MCPHERSON 115KV         2569         -0.28247         State           WERE         BPU - CITY OF MCPHERSON 115KV         2569         -2.28467         ACRE         TSRV         640         -0.0021         -2.28247           WERE         BPU - CITY OF MCPHERSON 115KV         2569         -2.28457         DKGE         SEMINOLE 138KV         485.0313         -0.00241         -0.28216         551           WERE         BPU - CITY OF MCPHERSON 115KV         2569         -2.28457         DKGE         SEMINOLE 138KV         120         -0.00235         -0.28204         551           WERE         BPU - CITY OF MCPHERSON 115KV         2569         -2.28457         DKGE         SODMER 138KV         513         -0.00185         -0.28206         551           WERE         BPU - CITY OF MCPHERSON 115KV         259         -2.28457         DKGE         TINKER 561 38KV         319.9905         -0.00285         -2.28208         511           WERE         BPU - CITY OF MCPHERSON 115KV         259         -2.28457         DKGE         TINKER 561 38KV         319.9905         -0.02281         511           WERE         BPU - CITY OF MCPHERSON 115KV         259         -2.28457         DKGE         TINKER 561 38KV         131.90006         -0.2829	WERE	'BPU - CITY OF MCPHERSON 115KV'			'ONE OAK 345KV'	300	-0.00231 -0.28226 51
WERE         PPU - CITY OF MCPHERSON 115KV         2269         0.2847 / LEPW         RIVERSIDE STATION 138KV         640         -0.0027         -0.28384         511           WERE         PPU - CITY OF MCPHERSON 115KV         259         0.2847 / CKG         SEMINOLE 345KV         4950.013         -0.00236         -0.28216         511           WERE         PPU - CITY OF MCPHERSON 115KV         259         0.2847 / CKG         SOMNER 23457         -0.0024         -0.2025         -0.2826         551           WERE         PPU - CITY OF MCPHERSON 115KV         259         0.2847 / CKG         SOMNER 345V         506         -0.0012         -0.2826         551           WERE         PPU - CITY OF MCPHERSON 115KV         259         0.2847 / LEPW         SOUTHWESTERN 5TATION 138KV         513         -0.0048         0.22826         551           WERE         PPU - CITY OF MCPHERSON 115KV         259         0.2847 / LEPW         TULSA POWER STATION 138KV         186         -0.00262         -0.2828         551           WERE         PPU - CITY OF MCPHERSON 115KV         259         -0.2847 / LEPW         WELETKA 138KV         186         -0.0014         -0.2836         551           WERE         PPU - CITY OF MCPHERSON 115KV         259         -2.2847 / LEPW         WELETKA 138KV </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
WERE         BPU_CITY OF MCPHERSON 115KV         22847 (NCE         SEMINOLE 138KV         485.031         -0.0221         -0.2821         551           WERE         BPU_CITY OF MCPHERSON 115KV         229         -2.2847 (NCE         SMITH COCEN 138KV         996         -0.0233         -0.2823         551           WERE         BPU_CITY OF MCPHERSON 115KV         229         -2.28457 (NCE         SMITH COCEN 138KV         563         -0.0023         -0.28236         551           WERE         BPU_CITY OF MCPHERSON 115KV         229         -2.28457 (NCE         SOONER 138KV         553         -0.0018         -0.28236         551           WERE         BPU_CITY OF MCPHERSON 115KV         229         -2.28457 (NCE         SOONER 345KV         31.99055         -0.00244         -0.28238         551           WERE         BPU_CITY OF MCPHERSON 115KV         229         -2.28457 (NCE         TINKER 56 138KV         1186         -0.00046         -0.28236         551           WERE         BPU_CITY OF MCPHERSON 115KV         229         -2.28457 (NEE         TINKER 56 138KV         1186         -0.00046         -0.28363         51           WERE         BPU_CITY OF MCPHERSON 115KV         229         -2.28457 (NEE         WLCE 5438KV         1044         -0.0014         <	WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457 OKGE	'REDBUD 345KV'	250	-0.0021 -0.28247 51
WERE         BPU - CITY OF MCPHERSON 115KV         2284 70 KGE         SEMMOLE 345KV         996         -0.0226         -0.2827         551           WERE         BPU - CITY OF MCPHERSON 115KV         2294 0.28457 (KGE         SOMNER 138KV         505         -0.0012         -0.28265         -51           WERE         BPU - CITY OF MCPHERSON 115KV         2294 0.28457 (KGE         SOONER 138KV         505         -0.0012         -0.28265         51           WERE         BPU - CITY OF MCPHERSON 115KV         2294 0.28457 (KGE         SOUTHWESTERN STATION 138KV         259         -0.28457 (KGE         STATION 138KV         3590         -0.0048         -0.27989         51           WERE         BPU - CITY OF MCPHERSON 115KV         2294 0.28457 (KGE         TIXER 50 138KV         3190         -0.0008         -0.28379         51           WERE         BPU - CITY OF MCPHERSON 115KV         2294 0.28457 / AEPW         TULSA POWER STATION 138KV         186         -0.0008         -0.28379         51           WERE         BPU - CITY OF MCPHERSON 115KV         2294 0.28457 / AEPW         WELETKA 138KV         144         -0.00141         -0.28379         51           WERE         BPU - CITY OF MCPHERSON 115KV         2294 0.28457 / AEPW         WILLETKA 138KV         144         -0.00144         -0.0136		'BPU - CITY OF MCPHERSON 115KV'		-0.28457 AEPW	'RIVERSIDE STATION 138KV'		-0.00073 -0.28384 51
WERE         IPU - CITY OF MCPHERSON 115K/         259         -0.2847         OKCE         SMITH CODEN         138K/         120         -0.00253         -0.28264         51           WERE         BPU - CITY OF MCPHERSON 115K/         259         -0.2847         DKCE         SOONER 138K/         565         -0.00128         -0.28269         51           WERE         BPU - CITY OF MCPHERSON 115K/         259         -0.2847         DKCE         SOONER 138K/         31.9905         -0.00481         -0.2289         51           WERE         BPU - CITY OF MCPHERSON 115K/         259         -0.2847         DKCE         TINKER 5G 138K/         31.9905         -0.00481         -0.28205         51           WERE         BPU - CITY OF MCPHERSON 115K/         259         -0.2847/MERE         WACO 138K/         17.667         -0.00251         -0.28205         51           WERE         BPU - CITY OF MCPHERSON 115K/         259         -0.2847/AEPW         WELETXA 138K/         8.4         -0.00141         -0.28205         51           WERE         BPU - CITY OF MCPHERSON 115K/         259         -0.2847/AEPW         WILES1 38K/         30.9061         -0.2381         51           WERE         BPU - CITY OF MCPHERSON 115K/         259         -0.2847/AEPW	WERE	BPU - CITY OF MCPHERSON 115KV	259		SEMINOLE 138KV		-0.00241 -0.28216 51
WERE         IPP - CITY OF MCPHERSON 115KV         256         -0.28457         OKGE         SOONER 138KV         505         -0.00172         -0.28285         511           WERE         IPP - CITY OF MCPHERSON 115KV         256         -0.28457         IAEW         SOUNER 346V         513         -0.00186         -0.27989         511           WERE         IPP - CITY OF MCPHERSON 115KV         256         -0.28457         INERE 51         319.905         -0.00244         -0.28293         511           WERE         IPU - CITY OF MCPHERSON 115KV         259         -0.28457         INERE 51         319.905         -0.02845         -0.28295         511           WERE         IPU - CITY OF MCPHERSON 115KV         259         -0.28457         INERP         90.0141         -0.28295         511           WERE         IPU - CITY OF MCPHERSON 115KV         259         -0.28457         IAEPW         WILES 138KV         10.044         -0.00141         -0.28361         511           WERE         IPU - CITY OF MCPHERSON 115KV         259         -0.28457         AEPW         WILES 138KV         30.9901         -0.0252         351           WERE         IPU - CITY OF MCPHERSON 115KV         259         -0.28457         MERE         INUT CHMSON ENERGY CENTER	WERE						
WERE         IPP - CITY OF MCPHERSON 115KV         2269         -0.22457         OKCE         SOUTH WESTERN STATION 138KV         513         -0.00188         -0.22898         511           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.22457         ACK         319.98005         -0.00244         -0.22819         511           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.22457         ACK         319.98005         -0.00244         -0.22813         511           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.22457         ACK         319.970         -0.00261         -0.02839         511           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.24457         AEPW         WELEETKA 138KV         310.400144         -0.00141         -0.28381         511           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.24457         AEPW         WELEETKA 138KV         310.900144         -0.02831         511           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.24457         AEPW         WILEETKA 138KV         36.9901         -0.02361         511           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.24457 AEPW         WILEETKA 138KV				-0.20457 OKGE			-0.00253 -0.26204 51
WERE         IPP - CITY OF MCPHERSON 115KV         2269         -0.28457 (AEPW         SOUTHWESTERN STATION 138KV         257         -0.00468         -0.27898         511           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.28457 (DKGE         TINKER 5G 138KV         319.9805         -0.00284         -0.28295         511           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.28457 (MEPW         WLACO 138KV         19.66         -0.00258         -0.28295         511           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.28457 (AEPW         WLELSH 345KV         64         -0.00141         -0.28351         511           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.28457 (AEPW         WILKES 138KV         306.9001         -0.00381         511           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.28457 (AEPW         WILKES 348KV         301.00096         -0.28361         511           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.28457 (WEPK         (CIFTON 115KV         306.9001         -0.27477         52           WERE         BPU - CITY OF MCPHERSON 115KV         269         -0.28457 (WEPK         (CIFTON 115KV         304.6875         -0.22224 (WERE		BPU - CITY OF MCPHERSON 115KV					-0.00172 -0.20203 51
WERE         IPU - CITY OF MCPHERSON 115KV         2259         -0.28457 (DKGE         TINKER SG 138KV         31.98405         -0.00264         -0.28213         51           WERE         IPU - CITY OF MCPHERSON 115KV         259         -0.28457 (AEPW         TULSA POWERS TATION 138KV         116         -0.00264         -0.28389         51           WERE         IPU - CITY OF MCPHERSON 115KV         259         -0.28457 (AEPW         WELETKA 138KV         114         -0.00141         -0.28316         51           WERE         IBPU - CITY OF MCPHERSON 115KV         259         -0.28457 (AEPW         WELETKA 138KV         36.90016         -0.28381         51           WERE         IBPU - CITY OF MCPHERSON 115KV         259         -0.28457 (AEPW         WELESTKA 138KV         36.90016         -0.28381         51           WERE         IBPU - CITY OF MCPHERSON 115KV         259         -0.28457 (WEPK         (ULFTON 115KV)         36.90016         -0.23816         51           WERE         IBPU - CITY OF MCPHERSON 115KV         259         -0.28457 (WEPK         (ULFTON 115KV)         58.49904         -0.0096         -0.23871         51           WERE         IPU - CITY OF MCPHERSON 115KV         259         -0.28457 WEPK         (ULFTON 115KV)         58.49904         -0.0196		BPU - CITY OF MCPHERSON 115KV		-0.28457 AFPW	SOUTHWESTERN STATION 138KV		-0.00468 -0.27989 51
WERE         IPP - CITY OF MCPHERSON 115KV'         2259         -0.28457 / MEPW         TULSA POWER STATION 138KV'         166         -0.00068         -0.28205         511           WERE         BPU - CITY OF MCPHERSON 115KV'         259         -0.28457 / MEPW         WELSH 345KV'         84         -0.00124         -0.28205         511           WERE         BPU - CITY OF MCPHERSON 115KV'         259         -0.28457 / AEPW         WELSH 345KV'         364         -0.00141         -0.28353         511           WERE         BPU - CITY OF MCPHERSON 115KV'         259         -0.28457 / AEPW         WILKES 345KV'         350 9001         -0.00096         -0.28351         511           WERE         BPU - CITY OF MCPHERSON 115KV'         259         -0.28457 / AEPW         WILKES 345KV'         350 9001         -0.00096         -0.28362         511           WERE         BPU - CITY OF MCPHERSON 115KV'         259         -0.28457 / WEPW         YULKES 345KV'         361         -0.00096         -0.28362         511           WERE         BPU - CITY OF MCPHERSON 115KV'         259         -0.28457 / WEPK         YULFEN 115KV         364         -0.0096         -0.27477         52           WERE         HUTCHINSON ENREGY CENTER 15KV         304.6875         -0.22224/ WERE         YU							
WERE         IPU - CITY OF MCPHERSON 115KV         2259         -0.28457 [WERE         WACD         138KV         17.967         -0.00252         -0.28205         51           WERE         IPU - CITY OF MCPHERSON 115KV         259         -0.28457 AEPW         WELEETKA 138KV         1044         -0.00141         -0.28316         51           WERE         IPU - CITY OF MCPHERSON 115KV         259         -0.28457 AEPW         WELEETKA 138KV         350 9901         -0.00086         -0.28361         51           WERE         IPU - CITY OF MCPHERSON 115KV         259         -0.28457 AEPW         WILES 345KV         350 9901         -0.00086         -0.28361         51           WERE         IPU - CITY OF MCPHERSON 115KV         259         -0.28457 IMEPW         WILES 345KV         351         -0.00086         -0.23861         51           WERE         IPU - CITY OF MCPHERSON 115KV         259         -0.28457 IMEPW         WILES 345KV         940         -0.0196         -0.23861         51           WERE         HUTCHNSON ENERGY CENTER 155KV         259         -0.28457 IMEPW         INFREV ENERGY CENTER 345KV         940         0.0196         -0.24264         59           WERE         HUTCHNSON ENERGY CENTER 69KV         67         -0.22230 WERE         JEFFREY ENERGY CE	WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457 AEPW	'TULSA POWER STATION 138KV'	186	-0.00068 -0.28389 51
WERE         IPU - CITY OF MCPHERSON 115KV         259         -0.28457 AEPW         WELES 1345KV         1044         -0.0014         -0.28351         511           WERE         IPU - CITY OF MCPHERSON 115KV         259         -0.28457 AEPW         WILES 1345KV         350.9901         -0.0096         -0.28361         511           WERE         IPU - CITY OF MCPHERSON 115KV         259         -0.28457 MEPW         WILES 1345KV         350.9901         -0.0096         -0.28361         511           WERE         IPU - CITY OF MCPHERSON 115KV         259         -0.28457 WEPL         CLIFTON 115KV         54.9094         -0.0096         -0.28361         51           WERE         IPU - CITY OF MCPHERSON 115KV         259         -0.28457 WEPL         CLIFTON 115KV         75         -0.03197         -0.2536         57           WERE         HUTCHINSON ENERGY CENTER 15KV         204.877         -0.22231 WERE         JEFREY ENERGY CENTER 345KV         940         0.0196         -0.24241         59           WERE         HUTCHINSON ENERGY CENTER 63KV         67         -0.22231 WERE         JEFREY ENERGY CENTER 345KV         470         0.01387         -0.24841         59           WERE         HUTCHINSON ENERGY CENTER 63KV         67         -0.22230         WERE         LAU	WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457 WERE	WACO 138KV	17.967	-0.00252 -0.28205 51
WERE         IPP - CITY OF MCPHERSON 115KV         226         -0.28457 AEPW         WILKES 138KV         330.9901         -0.00096         -0.23861         511           WERE         BPU - CITY OF MCPHERSON 115KV         256         -0.28457 AEPW         WILKES 345KV         311         -0.00096         -0.23862         511           WERE         BPU - CITY OF MCPHERSON 115KV         256         -0.28457 MEPL         CLIFTON 115KV         58.49084         -0.0098         -0.22456         557           WERE         BPU - CITY OF MCPHERSON 115KV         256         -0.28457 WERE         WILKES 345KV         940         0.0196         -0.24264         59           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22283         WERE         JEFFREY ENERGY CENTER 345KV         940         0.0196         -0.24264         59           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22281         WERE         JEFFREY ENERGY CENTER 345KV         470         0.01387         -0.23681         61           WERE         HUTCHINSON ENERGY CENTER 65KV         67         -0.22283         WERE         JEFFREY ENERGY CENTER 236KV         470         0.01387         -0.23681         62           WERE         HUTCHINSON ENERGY CENTER 65KV <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>-0.00141 -0.28316 51</td></td<>							-0.00141 -0.28316 51
WERE         IPU - CITY OF MCPHERSON 115KV'         2269         -0.28457 MEPW         WILKES 345KV'         311         -0.00080         -0.28362         511           WERE         IPU - CITY OF MCPHERSON 115KV'         256         -0.28457 [WEPK         CUIFTON 115KV'         58.40904         -0.0098         -0.22477         52           WERE         IPU - CITY OF MCPHERSON 115KV'         256         -0.28457 [WEPK         KNOLL 3115 115KV'         76         -0.03197         -0.2526         57           WERE         HUTCHINSON ENERGY CENTER 155KV'         304.6875         -0.22234 [WERE         UEFREY ENERGY CENTER 345KV         940         0.0196         -0.24245         59           WERE         HUTCHINSON ENERGY CENTER 155KV'         304.6875         -0.22234 [WERE         UEFREY ENERGY CENTER 345KV         940         0.0196         -0.24243         59           WERE         HUTCHINSON ENERGY CENTER 155KV'         304.6875         -0.22234 [WERE         UEFREY ENERGY CENTER 236KV         470         0.01387         -0.23681         61           WERE         HUTCHINSON ENERGY CENTER 68KV         67         -0.22234 [WERE         LEFREY ENERGY CENTER 236KV         470         0.01387         -0.23681         62           WERE         HUTCHINSON ENERGY CENTER 68KV         67         -0							-0.00104 -0.28353 51
WERE         IPU - CITY OF MCPHERSON 115KV         2289         -0.28457 [WEPL         CLIFTON 115KV         58.49084         -0.0088         -0.27477         52           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.28457 [WERE         INFOL         115 115KV         75         -0.03197         -0.2526         57           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22231 [WERE         JEFFREY ENERGY CENTER 345KV         940         0.0196         -0.24243         59           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22281 [WERE         JEFFREY ENERGY CENTER 345KV         940         0.0196         -0.24243         59           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22281 [WERE         JEFFREY ENERGY CENTER 230KV         470         0.01387         -0.23681         61           WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.22281 [WERE         LANG 7 345 345KV         310         0.00734         -0.23028         62           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.22457 [WEPL         LANG 7 345 345KV         310         0.00734         -0.23028         62           WERE         BPU - CITY OF MCPHERSON 115KV         259 <t< td=""><td>WERE</td><td>BPU - CITY OF MCPHERSON 115KV</td><td></td><td>-0.28457 AEPW</td><td>WILKES 138KV</td><td>350.9901</td><td>-0.00096 -0.28361 51</td></t<>	WERE	BPU - CITY OF MCPHERSON 115KV		-0.28457 AEPW	WILKES 138KV	350.9901	-0.00096 -0.28361 51
WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.2224  WERE         UEFFREY ENERGY CENTER 345KV         940         0.0196         -0.24243         559           WERE         HUTCHINSON ENERGY CENTER 15KV         304.6875         -0.2224  WERE         JEFFREY ENERGY CENTER 345KV         940         0.0196         -0.24243         559           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22249         WERE         2JEFFREY ENERGY CENTER 230KV         470         0.01387         -0.2381         661           WERE         HUTCHINSON ENERGY CENTER 68KV         67         -0.22234         WERE         LARG 7 345 345KV         310         0.00734         -0.2387         661           WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.22283         WERE         LANG 7 345 345KV         310         0.00734         -0.2387         661           WERE         BPU - CIT OF MCPHERSON 115KV         259         -0.24857 WEPL         GRAY COUNTWIND FARM 115KV         60         -0.22564         63           WERE         BPU - CIT OF MCPHERSON 115KV         259         -0.24857 WEPL         JUDSON LARGE 115KV         300         0.00630         -0.22564         63           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875		BPU - CITY OF MCPHERSON 115KV					-0.00095 -0.28362 51
WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.2224  WERE         UEFFREY ENERGY CENTER 345KV         940         0.0196         -0.24243         559           WERE         HUTCHINSON ENERGY CENTER 15KV         304.6875         -0.2224  WERE         JEFFREY ENERGY CENTER 345KV         940         0.0196         -0.24243         559           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22249         WERE         2JEFFREY ENERGY CENTER 230KV         470         0.01387         -0.2381         661           WERE         HUTCHINSON ENERGY CENTER 68KV         67         -0.22234         WERE         LARG 7 345 345KV         310         0.00734         -0.2387         661           WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.22283         WERE         LANG 7 345 345KV         310         0.00734         -0.2387         661           WERE         BPU - CIT OF MCPHERSON 115KV         259         -0.24857 WEPL         GRAY COUNTWIND FARM 115KV         60         -0.22564         63           WERE         BPU - CIT OF MCPHERSON 115KV         259         -0.24857 WEPL         JUDSON LARGE 115KV         300         0.00630         -0.22564         63           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875							-0.0098 -0.27477 52
WERE         'HUTCHINSON ENERGY CENTER 69KV'         67         -0.2283         WERE         'JEFREY ENERGY CENTER 345KV'         940         0.0196         -0.24243         59           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.2284         WERE         'JEFREY ENERGY CENTER 23KV'         470         0.01387         -0.23681         61           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22281         WERE         JEFREY ENERGY CENTER 23KV'         470         0.01387         -0.23081         61           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22281         WERE         LANG 7.345.345KV         310         0.00734         -0.23028         62           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.28457 WEPL         CRAY COUNT WIND FARM 115KV'         60         -0.5883         -0.22854         63           WERE         BPU - CITY OF MCPHERSON 115KV'         204.6875         -0.22244         MIPL         115KV'         304.6875         -0.22244         MIPL         300         0.00421         -0.22861         63           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22244         MIPU         MAIES 161KV'         300         0.00421 <td></td> <td></td> <td></td> <td>-0.2845/ WERE</td> <td>VINULL 3 113 115KV</td> <td></td> <td>-0.03197 -0.2526 57</td>				-0.2845/ WERE	VINULL 3 113 115KV		-0.03197 -0.2526 57
WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22284 [WERE         JEFREY ENERGY CENTER 230KV         470         0.01387         -0.2387         61           WERE         'HUTCHINSON ENERGY CENTER 69KV'         67         -0.22231 [WERE         LJEFREY ENERGY CENTER 230KV'         470         0.01387         -0.2387         61           WERE         'HUTCHINSON ENERGY CENTER 69KV'         67         -0.22231 [WERE         LANG 7 345 345KV'         310         0.00734         -0.2307         61           WERE         'HUTCHINSON ENERGY CENTER 69KV'         67         -0.22231 [WERE         LANG 7 345 345KV'         310         0.00734         -0.23017         62           WERE         'BPU - CITY OF MCPHERSON 115KV'         259         -0.24857 [WEPL         GRAY COLUTY WIND FARM 115KV'         60         -0.05803         -0.22664         63           WERE         'BPU - CITY OF MCPHERSON 115KV'         259         -0.24857 [WEPL         JUDSON LARGE 115KV'         300         -0.22664         63           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [MCPL         JUDSON LARGE 115KV'         300         -0.22664         63           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [MCPL         JUDSON LARGE					UEFEREY ENERGY CENTER 345KV		0.0196 -0.24243 59
WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.2283         WERE         JEFFREY ENERGY CENTER 23KV         470         0.01387         -0.2307         611           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6375         -0.22234         WERE         LANG 7.345.345KV         310         0.00734         -0.23026         622           WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.22234         WERE         LANG 7.345.345KV         310         0.00734         -0.23026         622           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.24847 WEPL         GRAY COUNTY WIND FARM 115KV         60         -0.05803         -0.22854         633           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.24847 WEPL         JUDSON LARGE 115KV         106.7974         -0.05803         -0.22854         633           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22244         MIPU         ARIES 161KV         300         0.00421         -0.22803         633           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22244         AGP         BUL CREEK 161KV         300         0.00421         -0.22803         633           WERE         HUTCHINSON				-0.22294 WFRF			0.01387 -0.23681 61
WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.2224         WERE         LANG         7.345         494KV         310         0.00734         -0.2308         622           WERE         HUTCHINSON ENERGY CENTER         65KV         67         -0.22243         WERE         LANG         7.345         494KV         310         0.00734         -0.23017         622           WERE         BPU - CITY OF MCPHERSON         115KV         259         -0.22457         WEPL         GRAY COUNTY WIND FARM         115KV         60         -0.23651         633           WERE         BPU - CITY OF MCPHERSON         115KV         2269         -0.22457         WEPL         JUDSON LARGE 115KV         106.7974         -0.22661         63           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22244         MIPL         JUDSON LARGE 115KV         300         0.00421         -0.22715         63           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22244         MIPL         306         0.00421         -0.2281         63           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22244         MIPL         TMORE         0.00427         -0.22714         63							
WERE         'HUTCHINSON ENERGY CENTER 68KV'         67         -0.22283 [WERE         LANG 7 345 345KV'         310         0.00734         -0.23071         62           WERE         'BPU - CITY OF MCPHERSON '115KV'         259         -0.28457 [WEPL         [GRAY COLUTY VIND FARM '115KV'         60         -0.05803         -0.22654         63           WERE         'BPU - CITY OF MCPHERSON '115KV'         259         -0.28457 [WEPL         'JUDSON LARGE '115KV'         106 7974         -0.05801         -0.22654         63           WERE         'HUTCHINSON ENERGY CENTER '115KV'         304 8875         -0.22294 [MPU         ARIES 161KV'         300         0.00421         -0.22715         63           WERE         'HUTCHINSON ENERGY CENTER '115KV'         304 8875         -0.22294 [MPU         KREE '161KV'         300         0.00621         -0.22714         63           WERE         'HUTCHINSON ENERGY CENTER '115KV'         304 8875         -0.22294 [MACP'         HAWTHORN 161KV'         766         0.00420         -0.2272         63           WERE         'HUTCHINSON ENERGY CENTER '115KV'         304 8875         -0.22294 [ACP'         HAWTHORN 161KV'         766         0.00420         -0.22721         63           WERE         'HUTCHINSON ENERGY CENTER '115KV'         304 6875 <t< td=""><td></td><td>'HUTCHINSON ENERGY CENTER 115KV'</td><td></td><td>-0.22294 WERE</td><td>'LANG 7 345 345KV'</td><td></td><td>0.00734 -0.23028 62</td></t<>		'HUTCHINSON ENERGY CENTER 115KV'		-0.22294 WERE	'LANG 7 345 345KV'		0.00734 -0.23028 62
WERE         IPU - CITY OF MCPHERSON 115KV         259         -0.28457 WEPL         GRAY COUNTY WIND FARM 115KV         60         -0.26563         -0.22564         63           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.28457 WEPL         JUDSON LARGE 115KV         106.7974         -0.05801         -0.22566         63           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 [MIPU         ARIES 161KV         300         0.00421         -0.22515         63           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 [MIPU         ARIES 161KV         308         0.00629         -0.22714         63           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 [MIPU         TARE         106.774         0.00829         -0.22714         63           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 [MIPU         TATA 345KV         769         0.00429         -0.22714         63           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 [MIPU         TATA 345KV         769         0.00427         -0.2291         63           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 [MIPU         TATA 345KV		'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22283 WERE	'LANG 7 345 345KV'	310	0.00734 -0.23017 62
WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22244 [MIPU         'ARLES         161KV'         300         0.00421         -0.22715         633           WERE         'HUTCHINSON ENERGY CENTER         115KV'         304.6875         -0.22244 [MIPU         free interval         308         0.00421         -0.22715         633           WERE         'HUTCHINSON ENERGY CENTER         115KV'         304.6875         -0.22244 [MIPU         free interval         168.88         0.00421         -0.22714         633           WERE         'HUTCHINSON ENERGY CENTER         115KV'         304.6875         -0.22244 [MIPU         free interval         168.88         0.00421         -0.22714         633           WERE         'HUTCHINSON ENERGY CENTER         115KV'         304.6875         -0.22244 [MIPU         TATAN 345KV'         769         0.00427         -0.22221         633           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22244 [MIPU         TATAN 345KV'         368         0.00627         -0.22291         633           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22244 [MIPU         TATAN 345KV'         368         0.00627         -0.22671         633           WERE         'H		'BPU - CITY OF MCPHERSON 115KV'				60	-0.05803 -0.22654 63
WERE         'HUTCHINSON ENERGY CENTER 115KV'         304 6875         -0.22294 [KACP         BULL CREEK 161KV'         308         0.00509         -0.22803         63           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304 6875         -0.22294 [KACP         BULL CREEK 161KV'         168 885         0.0022         -0.22714         63           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304 6875         -0.22294 [KACP         HAWTHORN 161KV'         768         0.00428         -0.22714         63           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304 6875         -0.22294 [KACP         HAWTHORN 161KV'         768         0.00427         -0.22291         63           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304 6875         -0.22294 [KACP         IATAN 345KV'         336         0.0027         -0.22261         63           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304 6875         -0.22294 [KACP         IATAN 345KV'         396         0.00377         -0.22671         63           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304 6875         -0.22294 [KACP         IATAN 345KV'         366         0.00377         -0.22671         63           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304 6875         -0.22294 [					'JUDSON LARGE 115KV'		-0.05801 -0.22656 63
WERE         "HUTCHINSON ENERGY CENTER 115KV"         304.6875         -0.2224 [MIPU         [GREEMWOOD 161KV"         168.885         0.0042         -0.22714         63           WERE         'HUTCHINSON ENERGY CENTER 115KV"         304.6875         -0.2224 [KACP         'HAWTHORN 161KV"         769         0.0042         -0.22714         63           WERE         'HUTCHINSON ENERGY CENTER 115KV"         304.6875         -0.22294 [KACP         'HAWTHORN 161KV"         769         0.0042         -0.22712         63           WERE         'HUTCHINSON ENERGY CENTER 115KV"         304.6875         -0.22294 [KACP         'LATAN 345KV"         396         0.00627         -0.22921         633           WERE         'HUTCHINSON ENERGY CENTER 115KV"         304.6875         -0.22294 [KACP         LACYONE UNIT 345KV"         958         0.00377         -0.22671         63           WERE         'HUTCHINSON ENERGY CENTER 115KV"         304.6875         -0.22294 [KACP         LACYONE UNIT 345KV"         958         0.00377         -0.22671         63           WERE         'HUTCHINSON ENERGY CENTER 115KV"         304.6875         -0.22294 [MIPU         LAKE ROAD 161KV"         35         0.00361         -0.22655         63           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         <				-0.22294 MIPU	'ARIES 161KV'	300	0.00421 -0.22715 63
WERE         HUTCHINSON ENERGY CENTER 115KV'         334.6875         -0.22294         KACP         HAWTHORN 161KV'         769         0.0428         -0.22722         63           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294         KACP         IAAN 345KV'         396         0.00627         -0.22291         63           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294         KACP         IAAN 345KV'         966         0.00377         -0.22921         63           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294         KACP         IAAN 345KV'         966         0.00377         -0.22871         63           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294         IMPU         IAKE ROAD 161KV'         966         0.00377         -0.22651         63           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294         IMPU         IAKE ROAD 34KV'         35         0.00361         -0.22655         63	WERE	THUTCHINSON ENERGY CENTER 115KV		-0.22294 KACP	BULL CREEK 161KV	308	0.00509 -0.22803 63
WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.2224 (ACP         IATAN 345KV         396         0.00627         -0.22321         63           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 (ACP         IATAN 345KV         396         0.00627         -0.22321         63           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 (MCP         IACY GNE UNIT 345KV         958         0.00377         -0.22671         63           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 (MIPU         IAKE ROAD 161KV         35         0.00361         -0.22655         63           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 (MIPU         IAKE ROAD 161KV         35         0.00361         -0.22655         63							
WERE         TUTCHINSON ENERGY CENTER 115KV         336.4875         -0.22294 [ARCP         LACYONE UNIT 345KV         958         0.00377         -0.22671         633           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [MIPU         LAKE ROAD 161KV         35         0.00381         -0.22655         633           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [MIPU         LAKE ROAD 161KV         35         0.00381         -0.22655         633		HUTCHINSON ENERGY CENTER 115KV					
WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22244         MIPU         !LAKE ROAD 161KV'         35         0.00361         -0.2265         63           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22244 (MIPU         'LAKE ROAD 34KV'         92         0.00361         -0.2265         63		HUTCHINSON ENERGY CENTER 115KV					
WERE 'HUTCHINSON ENERGY CENTER 115KV' 304.6875 -0.22294 MIPU 'LAKE ROAD 34KV' 92 0.00361 -0.22655 63		HUTCHINSON ENERGY CENTER 115KV		-0.22294 MIPLI			0.00361 -0.22655 63

Maximum Decrement and Maximum Incremen Factor = Source GSF - Sink GSF Redispatch Amount = Relief Amount / Factor

Upgrade:	EXIDE JUNCTION - NORTH AMERICAN PHILIPS 115KV CK	Т 1			
Limiting Facility:	EXIDE JUNCTION - NORTH AMERICAN PHILIPS 115KV CK	T 1			
Direction:	From->To				
Line Outage:	NORTHVIEW - SUMMIT 115KV CKT 1				
Flowgate:	57368573721573715738112308SP				
Date Redispatch Needed:	Starting 2008 6/1 - 10/1 Until EOC				
Season Flowgate Identified:	2008 Summer Peak		_		
		Aggregate Relief			
Reservation		Amount			
1161506					
1161997	6.4	13.0			
				Sink	
		Maximum		Control	
Source Control Area			GSF		Sink
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378		'SMOKEY HILLS 34KV'
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378		'KNOLL 3 115 115KV'
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'SMOKEY HILLS 34KV'
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.23378		JEFFREY ENERGY CENTER 345KV
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378		'IATAN 345KV'
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378		'JEFFREY ENERGY CENTER 230KV'
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.23378		'AES 161KV'
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378		'ARIES 161KV'
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.23378		'ARSENAL HILL 69KV'
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	EMDE	'ASBURY 161KV'

 
 Maximum Decrement(MW)
 GSF 0.08294
 Factor

 152
 0.08294
 -0.31672

 75
 0.01717
 -0.25095

 152
 0.08294
 -0.24545

 940
 0.01113
 -0.24491

 396
 0.00223
 -0.23601

 470
 0.00252
 -0.23357

 300
 0.00062
 -0.2344

 49.21387
 -0.00021
 -0.23357

 191
 0.00001
 -0.23379

Aggregate Redispatch Amount (MW)

41 52 53

WERE	CLAY CENTER JUNCTION 115KV	38.1		KACP	'BULL CREEK 161KV'	239.0542			56
WERE	'CLAY CENTER JUNCTION 115KV'	38.1			'CHANUTE 69KV'	55.637	-0.00009	-0.23369	56
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00075	-0.23303	56
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	WERE	'CITY OF BURLINGTON 69KV'	34.061	-0.00006	-0.23372	56
WERE	CLAY CENTER JUNCTION 115KV' CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	WERE	CITY OF ERIE 69KV	23.374	-0.00009	-0.23369	56 56
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	KACP	'CITY OF HIGGINSVILLE 69KV'	35	0.0006	-0.23438	56
WERE	'CLAY CENTER JUNCTION 115KV'	38.1			CITY OF IOLA 69KV	24.471	-0.00001	-0.23377	56
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	WERE	'CITY OF WINFIELD 69KV'	26.77	-0.00078	-0.233	56
WERE	'CLAY CENTER JUNCTION 115KV'	38.1			'CLR_1 .575 34KV'	23.001	-0.00037	-0.23341	56
WERE	CLAY CENTER JUNCTION 115KV	38.1			COFFEY COUNTY NO. 2 SHARPE 69KV	19.98	-0.00006	-0.23372	56
WERE	'CLAY CENTER JUNCTION 115KV'	38.1			COGENTRIX 345KV	865	-0.00032	-0.23346	56
WERE	CLAY CENTER JUNCTION 115KV	38.1			COMANCHE 138KV	160	-0.00032	-0.2328	56 56
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.23378		COMANCHE 69KV	63	-0.00030	-0.23281	56
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.23378		'EASTMAN 138KV'	155	-0.00097	-0.23261	56
WERE	CLAY CENTER JUNCTION 115KV	38.1		AEPW	ELK RIVER 345KV	46		-0.23353	56
							-0.00037		
WERE	CLAY CENTER JUNCTION 115KV	38.1			'EVANS ENERGY CENTER 138KV'	305	-0.00077	-0.23301	56
WERE	CLAY CENTER JUNCTION 115KV	38.1			'FITZHUGH 161KV'	126	-0.00018	-0.2336	56
WERE	CLAY CENTER JUNCTION 115KV CLAY CENTER JUNCTION 115KV	38.1			'FLINT CREEK 161KV'	428	-0.00016	-0.23362	56
WERE	CLAY CENTER JUNCTION 115KV	38.1			'FULTON 115KV'	24.99999	-0.00024	-0.23354	56
WERE	CLAY CENTER JUNCTION 115KV	38.1			'GILL ENERGY CENTER 138KV'	155	-0.0015	-0.23228	56
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	KACP	'HAWTHORN 161KV'	769	0.00092	-0.2347	56
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	OKGE	'HORSESHOE LAKE 138KV'	798.498	-0.00062	-0.23316	56
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	AEPW	'KNOXLEE 138KV'	284	-0.00025	-0.23353	56
WERE	'CLAY CENTER JUNCTION 115KV'	38.1		KACP	'LACYGNE UNIT 345KV'	958	0.00046	-0.23424	56
WERE	'CLAY CENTER JUNCTION 115KV'	38.1		MIPU	'LAKE ROAD 161KV'	35	0.00116	-0.23494	56
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	MIPU	'LAKE ROAD 34KV'	92	0.00116	-0.23494	56
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.23378		'LANG 7 345 345KV'	310	0.00057	-0.23435	56 56
WERE	CLAY CENTER JUNCTION 115KV	38.1			'LARUSSEL 161KV'	116	0	-0.23378	56
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.23378	WERE	'LAWRENCE ENERGY CENTER 230KV'	251.3802	-0.00138	-0.2324	56
WERE	CLAY CENTER JUNCTION 115KV	38.1			LEBROCK 345KV'	251.3802	-0.00025	-0.2324	56
WERE		38.1			LIEBERMAN 138KV	159	-0.00025	-0.23355	
WERE	CLAY CENTER JUNCTION 115KV	38.1			MCCLAIN 138KV	159		-0.23355	56 56
	CLAY CENTER JUNCTION 115KV						-0.00066		
WERE	CLAY CENTER JUNCTION 115KV	38.1			MONTROSE 161KV	359.0945	0.00061	-0.23439	56
WERE	CLAY CENTER JUNCTION 115KV	38.1			'MUSKOGEE 345KV'	1516	-0.00031	-0.23347	56 56
WERE	'CLAY CENTER JUNCTION 115KV'	38.1			'MUSTANG 138KV'	365.5	-0.00066	-0.23312	56
WERE	CLAY CENTER JUNCTION 115KV	38.1			'MUSTANG 69KV'	106	-0.00066	-0.23312	56
WERE	CLAY CENTER JUNCTION 115KV	38.1			'NARROWS 69KV'	22	-0.00032	-0.23346	56
WERE	CLAY CENTER JUNCTION 115KV	38.1		KACY	'NEARMAN 161KV'	77	0.001	-0.23478	56
WERE	CLAY CENTER JUNCTION 115KV	38.1			'NEARMAN 20KV'	235	0.001	-0.23478	56
WERE	'CLAY CENTER JUNCTION 115KV'	38.1		AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00026	-0.23352	56
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00024	-0.23354	56
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	AEPW	'OEC 345KV'	369	-0.00029	-0.23349	56
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378		'OMPA-KAW 69KV'	19.7	-0.00062	-0.23316	56
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	OKGE	'OMPA-PONCA CITY 69KV'	82.02393	-0.00062	-0.23316	56
WERE	'CLAY CENTER JUNCTION 115KV'	38.1			'ONE OAK 345KV'	336	-0.00064	-0.23314	56
WERE	'CLAY CENTER JUNCTION 115KV'	38.1			'PIRKEY GENERATION 138KV'	490	-0.00025	-0.23353	56
WERE	CLAY CENTER JUNCTION 115KV	38.1		KACY	'QUINDARO 161KV'	118.0639	0.00023	-0.23333	56
WERE	CLAY CENTER JUNCTION 115KV	38.1			QUINDARO 69KV	137,1869	0.001	-0.23478	56
WERE	CLAY CENTER JUNCTION 115KV' CLAY CENTER JUNCTION 115KV'	38.1			REDBUD 345KV	250	-0.00058	-0.23476	00
WERE		38.1		AEPW			-0.00032	-0.23346	56 56
	CLAY CENTER JUNCTION 115KV				'RIVERSIDE STATION 138KV'	722			56
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.23378	EMDE	'RIVERTON 161KV'	195.454	-0.00004	-0.23374	56
WERE	CLAY CENTER JUNCTION 115KV	38.1			'RIVERTON 69KV'	44.57413	-0.00004	-0.23374	56
WERE	CLAY CENTER JUNCTION 115KV	38.1		AEPW	'RVRSIDEG13.8 138KV'	172	-0.00032	-0.23346	56
WERE	CLAY CENTER JUNCTION 115KV	38.1		OKGE	'SEMINOLE 138KV'	483.933	-0.00062	-0.23316	56
WERE	CLAY CENTER JUNCTION 115KV	38.1		OKGE	SEMINOLE 345KV	996	-0.00061	-0.23317	56
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.23378		SIBLEY 161KV	227.1588	0.00078	-0.23456	56
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.23378		'SIBLEY 69KV'	45.99999	0.00082	-0.2346	56
WERE	'CLAY CENTER JUNCTION 115KV'	38.1			'SMITH COGEN 138KV'	120	-0.00066	-0.23312	56
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	OKGE	'SOONER 138KV'	505	-0.00061	-0.23317	56
WERE	'CLAY CENTER JUNCTION 115KV'	38.1			'SOONER 345KV'	513	-0.00062	-0.23316	56
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	MIPU	'SOUTH HARPER 161KV'	175.8544	0.00057	-0.23435	56
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	AEPW	'SOUTHWESTERN STATION 138KV'	369	-0.00095	-0.23283	56
WERE	'CLAY CENTER JUNCTION 115KV'	38.1			'STATE LINE 161KV'	503	-0.00003	-0.23375	56
WERE	'CLAY CENTER JUNCTION 115KV'	38.1			'TULSA POWER STATION 138KV'	259	-0.00031	-0.23347	56
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	AEPW	WELEETKA 138KV'	84	-0.00043	-0.23335	56 56
WERE	'CLAY CENTER JUNCTION 115KV'	38.1			WELSH 345KV	1044	-0.00028	-0.2335	56
WERE	'CLAY CENTER JUNCTION 115KV'	38.1		AEPW	WILKES 138KV	445.2025	-0.00026	-0.23352	56
WERE	CLAY CENTER JUNCTION 115KV	38.1			WILKES 345KV	311	-0.00026	-0.23352	56
WERE	CLAY CENTER JUNCTION 115KV	38.1			TECUMSEH ENERGY CENTER 115KV	108	-0.00397	-0.22981	57
WERE	CLAY CENTER JUNCTION 115KV	38.1		WEPI	CLIFTON 115KV	65	-0.01181	-0.22301	59
WERE	CLAY CENTER JUNCTION 115KV	38.1			'GRAY COUNTY WIND FARM 115KV'	100	-0.01079	-0.22299	59
WERE	CLAY CENTER JUNCTION 115KV	38.1			JUDSON LARGE 115KV	113.5708	-0.01079	-0.22299	59
	CLAY CENTER JUNCTION 115KV	38.1	-0.23378		A. M. MULLERGREN GENERATOR 115KV	63	-0.01081	-0.22297	59 60
WERE WERE	BPU - CITY OF MCPHERSON 115KV	38.1	-0.23378	WERE	KNOLL 3 115 115KV	75	-0.01654 0.01717	-0.21724	00
WERE	HUTCHINSON ENERGY CENTER 115KV	340.7092	-0.16251		SMOKEY HILLS 34KV'	152	0.01717	-0.17968	73 74
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67		WERE	SMOKEY HILLS 34KV	152	0.08294	-0.17745	74
WERE	BPU - CITY OF MCPHERSON 115KV	259			JEFFREY ENERGY CENTER 345KV	940	0.01113	-0.17364	75
WERE	BPU - CITY OF MCPHERSON 115KV	259		KACP	IATAN 345KV	396	0.00223	-0.16474	79
WERE	BPU - CITY OF MCPHERSON 115KV	259			JEFFREY ENERGY CENTER 230KV	470	0.00252	-0.16503	79
WERE	BPU - CITY OF MCPHERSON 115KV	259			'AES 161KV'	320	-0.00021	-0.1623	80
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16251	MIPU	'ARIES 161KV'	300	0.00062	-0.16313	80
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'ARSENAL HILL 69KV'	49.21387	-0.00023	-0.16228	80
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'ASBURY 161KV'	191	0.00001	-0.16252	80
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		KACP	'BULL CREEK 161KV'	239.0542	0.00117	-0.16368	80
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16251	WERE	'CHANUTE 69KV'	55.637	-0.00009	-0.16242	80
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16251	WERE	'CITY OF BURLINGTON 69KV'	34.061	-0.00006	-0.16245	80
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'CITY OF HIGGINSVILLE 69KV'	35	0.0006	-0.16311	80
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16251		'COGENTRIX 345KV'	865	-0.00032	-0.16219	80
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16251	AEPW	'EASTMAN 138KV'	155	-0.00025	-0.16226	80
WERE	'BPU - CITY OF MCPHERSON 115KV'		-0.16251	EMDE	'ELK RIVER 345KV'	46	-0.00037	-0.16214	80
	ximum Increment were determine from the Souce and Sink Oper	_00			anisian familie				20

 Import
 LIT VD+ MICHTERSON 115KV
 259
 -0.16251[EMDE
 [ELK RIVER 345KV]

 Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.
 Factor = Source GSF - Sink GSF
 Redispatch Amount | Relief Amount / Factor

Upgrade: Limiting Facility: Direction: Line Outage: Flowqate:	EXIDE JUNCTION - SUMMIT 115KV CKT 1 EXIDE JUNCTION - SUMMIT 115KV CKT 1 To->From EAST MCPHERSON - SUMMIT 230KV CKT 1 57368573811568725687312207FA								
Date Redispatch Needed:	Starting 2007 10/1 - 12/1 Until EOC of Upgrade								
Season Flowgate Identified:	2007 Fall Peak								
1		Aggregate Relief							
Reservation	Relief Amount	Amount							
116199	7 2			r					
				Sink					Aggregate
		Maximum		Control		Maximum			Redispatch
Source Control Area	Source		GSF	Area	Sink				Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28461		'JEFFREY ENERGY CENTER 345KV'	940	0.01956		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28461		'AES 161KV'	320	-0.00051	-0.2841	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28461		'ARIES 161KV'	300	0.00419		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28461	WERE	'CHANUTE 69KV'	56.296	0.00115	-0.28576	9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28461	WERE	'CITY OF AUGUSTA 69KV'	17	0.0002	-0.28481	9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28461	WERE	'CITY OF BURLINGTON 69KV'	23.256	0.00217	-0.28678	9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28461	WERE	CITY OF IOLA 69KV	24.256	0.00136	-0.28597	. 9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28461	WERE	'CITY OF MULVANE 69KV'	4.891	-0.00092	-0.28369	9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28461	WERE	'CITY OF WINFIELD 69KV'	9.083	-0.00092	-0.28369	9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28461	WERE	'CLR_1 .575 34KV'	43.0032	0.0009	-0.28551	9
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.28461	WFRF	COFFEY COUNTY NO. 2 SHARPE 69KV	19.96	0.00217	-0.28678	9

ERE ERE	'BPU - CITY OF MCPHERSON 115KV' 'BPU - CITY OF MCPHERSON 115KV'	259 -0.28461 AEPW 259 -0.28461 AEPW	COGENTRIX 345KV COMANCHE 138KV	200 -0.00074 -0.28387 160 -0.00478 -0.27983
RE	BPU - CITY OF MCPHERSON 115KV BPU - CITY OF MCPHERSON 115KV	259 -0.28461 AEPW 259 -0.28461 AEPW		63 -0.00478 -0.27983
RE	BPU - CITY OF MCPHERSON 115KV	259 -0.28461 AEPW		355 -0.00093 -0.28368
RE	BPU - CITY OF MCPHERSON 115KV	259 -0.28461 EMDE	'ELK RIVER 345KV'	150 0.0009 -0.28551
RE	BPU - CITY OF MCPHERSON 115KV	259 -0.28461 WERE	'EVANS ENERGY CENTER 138KV'	135.8691 -0.0001 -0.28451
E	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28461 AEPW		92 -0.0004 -0.28421
E	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28461 AEPW	'FLINT CREEK 161KV'	400 0.00002 -0.28463
RE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28461 KACP	'HAWTHORN 161KV'	455 0.00426 -0.28887
RE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28461 KACP	'IATAN 345KV'	396 0.00623 -0.29084
RE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28461 WERE		470 0.01384 -0.29845
RE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28461 AEPW	'L&D13 69KV'	11 -0.00045 -0.28416
RE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28461 KACP	'LACYGNE UNIT 345KV'	800.1582 0.00382 -0.28843
RE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28461 MIPU	'LAKE ROAD 34KV'	71.90479 0.00359 -0.2882
RE	BPU - CITY OF MCPHERSON 115KV	259 -0.28461 WERE	'LAWRENCE ENERGY CENTER 230KV'	234.1795 0.00689 -0.2915
RE RE	BPU - CITY OF MCPHERSON 115KV	259 -0.28461 AEPW 259 -0.28461 AEPW		515 -0.00093 -0.28368
RE	'BPU - CITY OF MCPHERSON 115KV' 'BPU - CITY OF MCPHERSON 115KV'	259 -0.28461 AEPW 259 -0.28461 KACP	'LIEBERMAN 138KV' 'MARSHALL 161KV'	4 -0.00086 -0.28375 15 0.00232 -0.28693
RE RF	BPU - CITY OF MCPHERSON 115KV BPU - CITY OF MCPHERSON 115KV	259 -0.28461 KACP 259 -0.28461 OKGE	MARSHALL 161KV	15 0.00232 -0.28693 478 -0.0026 -0.28201
RE	BPU - CITY OF MCPHERSON 115KV	259 -0.28461 OKGE 259 -0.28461 OKGE	MUSKOGEE 345KV	1516 -0.0026 -0.28201
RE	BPU - CITY OF MCPHERSON 115KV	259 -0.28461 KACY	'NEARMAN 20KV'	220 0.00481 -0.28942
RE	BPU - CITY OF MCPHERSON 115KV	259 -0.28461 AEPW	'NORTHEASTERN STATION 138KV'	302 -0.0003 -0.28431
RE	BPU - CITY OF MCPHERSON 115KV	259 -0.28461 AEPW		550 -0.00015 -0.28446
RE	BPU - CITY OF MCPHERSON 115KV	259 -0.28461 AEPW	OEC 345KV	419 -0.00057 -0.28404
RE	BPU - CITY OF MCPHERSON 115KV	259 -0.28461 OKGE	OMPA-KAW 69KV	19.80507 -0.00157 -0.28304
RE	BPU - CITY OF MCPHERSON 115KV	259 -0.28461 OKGE	OMPA-PONCA CITY 69KV	27.1617 -0.00157 -0.28304
RE	BPU - CITY OF MCPHERSON 115KV	259 -0.28461 EMDE	OZARK BEACH 161KV	16 0.00065 -0.28526
RE	BPU - CITY OF MCPHERSON 115KV	259 -0.28461 AEPW	'PIRKEY GENERATION 138KV'	440 -0.00093 -0.28368
RE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28461 KACY	QUINDARO 161KV	111.0268 0.00479 -0.2894
RE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28461 KACY	'QUINDARO 69KV'	72 0.00478 -0.28939
RE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28461 OKGE	'REDBUD 345KV'	250 -0.0021 -0.28251
RE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28461 AEPW	'RIVERSIDE STATION 138KV'	145 -0.00073 -0.28388
RE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28461 EMDE	'RIVERTON 161KV'	38 0.00081 -0.28542
RE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28461 EMDE	'RIVERTON 69KV'	44.28906 0.00079 -0.2854
RE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28461 OKGE	'SEMINOLE 138KV'	485.8019 -0.00242 -0.28219
RE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28461 OKGE	'SEMINOLE 345KV'	614.2334 -0.00236 -0.28225
RE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28461 MIPU	'SIBLEY 161KV'	229.9199 0.00394 -0.28855
RE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28461 MIPU	'SIBLEY 69KV'	10 0.00401 -0.28862
RE	BPU - CITY OF MCPHERSON 115KV	259 -0.28461 OKGE	SOONER 138KV	505 -0.00174 -0.28287
RE	BPU - CITY OF MCPHERSON 115KV	259 -0.28461 OKGE	SOONER 345KV	513 -0.00188 -0.28273
RE	BPU - CITY OF MCPHERSON 115KV	259 -0.28461 AEPW		29 -0.00472 -0.27989
RE	BPU - CITY OF MCPHERSON 115KV	259 -0.28461 EMDE	'STATE LINE 161KV'	343.9296 0.00081 -0.28542
RE	'BPU - CITY OF MCPHERSON 115KV' 'BPU - CITY OF MCPHERSON 115KV'	259 -0.28461 WERE	TECUMSEH ENERGY CENTER 115KV	88 0.00603 -0.29064 17.946 -0.00258 -0.28203
RE	BPU - CITY OF MCPHERSON 115KV	259 -0.28461 WERE 259 -0.28461 AEPW	WACO 138KV' WELSH 345KV'	17.946 -0.00258 -0.28203 990 -0.00104 -0.28357
RF	BPU - CITY OF MCPHERSON 115KV	259 -0.28461 AEPW		7 -0.00096 -0.28365
RE	BPU - CITY OF MCPHERSON 115KV	259 -0.28461 AEPW	WILKES 345KV	52.77707 -0.00095 -0.28366
RE	BPU - CITY OF MCPHERSON 115KV	259 -0.28461 AEFW		6.475063 -0.03503 -0.24958
RE	HUTCHINSON ENERGY CENTER 115KV	521 -0.22299 WERE	JEFFREY ENERGY CENTER 345KV	940 0.01956 -0.24955
RE	'HUTCHINSON ENERGY CENTER 69KV'	67 -0.22287 WERE	JEFFREY ENERGY CENTER 345KV	940 0.01956 -0.24243
RE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28461 WEPI	'GRAY COUNTY WIND FARM 115KV'	60 -0.05809 -0.22652
RE	BPU - CITY OF MCPHERSON 115KV	259 -0.28461 WEPL	JUDSON LARGE 115KV	33.38665 -0.05807 -0.22654
RE	'HUTCHINSON ENERGY CENTER 115KV'	521 -0.22299 OKGE	'AES 161KV'	320 -0.00051 -0.22248
RE	'HUTCHINSON ENERGY CENTER 115KV'	521 -0.22299 MIPU	'ARIES 161KV'	300 0.00419 -0.22718
RE	'HUTCHINSON ENERGY CENTER 115KV'	521 -0.22299 WERE	CHANUTE 69KV	56.296 0.00115 -0.22414
RE	'HUTCHINSON ENERGY CENTER 115KV'	521 -0.22299 WERE	CITY OF AUGUSTA 69KV	17 0.0002 -0.22319
RE	'HUTCHINSON ENERGY CENTER 115KV'	521 -0.22299 WERE	'CITY OF BURLINGTON 69KV'	23.256 0.00217 -0.22516
RE	'HUTCHINSON ENERGY CENTER 115KV'	521 -0.22299 WERE	'CITY OF IOLA 69KV'	24.256 0.00136 -0.22435
RE	'HUTCHINSON ENERGY CENTER 115KV'	521 -0.22299 WERE	'CITY OF MULVANE 69KV'	4.891 -0.00092 -0.22207
RE	'HUTCHINSON ENERGY CENTER 115KV'	521 -0.22299 WERE	CITY OF WINFIELD 69KV	9.083 -0.00092 -0.22207
RE	'HUTCHINSON ENERGY CENTER 115KV'	521 -0.22299 WERE	'CLR_1 .575 34KV'	43.0032 0.0009 -0.22389
RE	'HUTCHINSON ENERGY CENTER 115KV'	521 -0.22299 WERE		19.96 0.00217 -0.22516
RE	'HUTCHINSON ENERGY CENTER 115KV'	521 -0.22299 AEPW	'COGENTRIX 345KV'	200 -0.00074 -0.22225
RE	HUTCHINSON ENERGY CENTER 115KV	521 -0.22299 AEPW	EASTMAN 138KV	355 -0.00093 -0.22206
RE	HUTCHINSON ENERGY CENTER 115KV	521 -0.22299 EMDE	'ELK RIVER 345KV'	150 0.0009 -0.22389 135.8691 -0.0001 -0.22289
RE RE	'HUTCHINSON ENERGY CENTER 115KV' 'HUTCHINSON ENERGY CENTER 115KV'	521 -0.22299 WERE 521 -0.22299 AEPW	'EVANS ENERGY CENTER 138KV' 'FITZHUGH 161KV'	
RE				92 -0.0004 -0.22259
	'HUTCHINSON ENERGY CENTER 115KV'	521 -0.22299 AEPW 521 -0.22299 KACP		400 0.00002 -0.22301 455 0.00426 -0.22725
RE	'HUTCHINSON ENERGY CENTER 115KV' 'HUTCHINSON ENERGY CENTER 115KV'	521 -0.22299 KACP 521 -0.22299 KACP	'HAWTHORN 161KV' 'IATAN 345KV'	455 0.00426 -0.22725 396 0.00623 -0.22922
RE	HUTCHINSON ENERGY CENTER 115KV	521 -0.22299 WERE	JEFFREY ENERGY CENTER 230KV	470 0.01384 -0.23683
RE	'HUTCHINSON ENERGY CENTER 115KV'	521 -0.22299 AEPW	L&D13 69KV	11 -0.00045 -0.22083
RE	'HUTCHINSON ENERGY CENTER 115KV'	521 -0.22299 KACP	'LACYGNE UNIT 345KV'	800.1582 0.00382 -0.22681
RE	HUTCHINSON ENERGY CENTER 115KV	521 -0.22299 MIPU	'LAKE ROAD 34KV'	71.90479 0.00359 -0.22658
RE	'HUTCHINSON ENERGY CENTER 115KV'	521 -0.22299 WERE	'LAWRENCE ENERGY CENTER 230KV'	234.1795 0.00689 -0.22988
RE	'HUTCHINSON ENERGY CENTER 115KV'	521 -0.22299 AEPW	'LEBROCK 345KV'	515 -0.00093 -0.22206
RE	'HUTCHINSON ENERGY CENTER 115KV'	521 -0.22299 AEPW	'LIEBERMAN 138KV'	4 -0.00086 -0.22213
RE	'HUTCHINSON ENERGY CENTER 115KV'	521 -0.22299 KACP	'MARSHALL 161KV'	15 0.00232 -0.22531
RE	'HUTCHINSON ENERGY CENTER 115KV'	521 -0.22299 OKGE	'MUSKOGEE 345KV'	1516 -0.00077 -0.22222
RE	'HUTCHINSON ENERGY CENTER 115KV'	521 -0.22299 KACY	'NEARMAN 20KV'	220 0.00481 -0.2278
RE	'HUTCHINSON ENERGY CENTER 115KV'	521 -0.22299 AEPW	'NORTHEASTERN STATION 138KV'	302 -0.0003 -0.22269
RE	'HUTCHINSON ENERGY CENTER 115KV'	521 -0.22299 AEPW		550 -0.00015 -0.22284
RE	'HUTCHINSON ENERGY CENTER 115KV'	521 -0.22299 AEPW		419 -0.00057 -0.22242
RE	'HUTCHINSON ENERGY CENTER 115KV'	521 -0.22299 OKGE	'OMPA-KAW 69KV'	19.80507 -0.00157 -0.22142
RE	'HUTCHINSON ENERGY CENTER 115KV'	521 -0.22299 OKGE	'OMPA-PONCA CITY 69KV'	27.1617 -0.00157 -0.22142
RE	'HUTCHINSON ENERGY CENTER 115KV'	521 -0.22299 EMDE	'OZARK BEACH 161KV'	16 0.00065 -0.22364
RE	'HUTCHINSON ENERGY CENTER 115KV'	521 -0.22299 AEPW		440 -0.00093 -0.22206
RE	'HUTCHINSON ENERGY CENTER 115KV' 'HUTCHINSON ENERGY CENTER 115KV'	521 -0.22299 KACY	'QUINDARO 161KV' 'QUINDARO 69KV'	111.0268 0.00479 -0.22778 72 0.00478 -0.22777
RF		521 -0.22299 KACY		

Line Outage:	EXIDE JUNCTION - SUMMIT 115KV CKT 1 EXIDE JUNCTION - SUMMIT 115KV CKT 1 To->From EAST MCPHERSON - SUMMIT 230KV CKT 1								
	57368573811568725687312207SH								
	6/1 - 10/1 Until EOC of Upgrade								
Season Flowgate Identified:	2007 Summer Shoulder								
		Aggregate Relief							
Reservation	Relief Amount	Amount							
1161997	12.2	12.2							
				Sink					Aggregate
		Maximum		Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02299	-0.31861	38
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01718	-0.3128	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562	KACP	'HAWTHORN 161KV'	661.084	0.00529	-0.30091	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562	KACP	'IATAN 345KV'	396	0.0076	-0.30322	40
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562	WERE	'LAWRENCE ENERGY CENTER 230KV'	235.4122	0.00919	-0.30481	40
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562	KACY	'NEARMAN 161KV'	77	0.00599	-0.30161	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562	KACY	'NEARMAN 20KV'	220	0.00599	-0.30161	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562	KACY	'QUINDARO 161KV'	116.9321	0.00596	-0.30158	8 40
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562	KACY	'QUINDARO 69KV'	89.12805	0.00594	-0.30156	6 40
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562	MIPU	'SOUTH HARPER 161KV'	269.6653	0.00556	-0.30118	40
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.00844	-0.30406	i 40
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.29562	OKGE	'AES 161KV'	320	-0.00065	-0.29497	41

WEDE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.29562 MIPU	'ARIES 161KV'	300	0.00523 -0.30085	41
WERE WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.29562 MIPO 259 -0.29562 EMDE	ARIES 161KV ASBURY 161KV	191	0.00523 -0.30085 0.00139 -0.29701	41
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.29562 WERE	CHANUTE 69KV	46.617	0.00149 -0.29711	41
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.29562 WERE	CITY OF AUGUSTA 69KV	40.017	0.00049 -0.29611	41
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.29562 WERE	CITY OF BURLINGTON 69KV	27.75	0.00282 -0.29844	41
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.29562 WERE	'CITY OF ERIE 69KV'	23.258	0.00149 -0.29711	41
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.29562 WERE	CITY OF ENE 69KV	19.865	0.00174 -0.29736	41
	BPU - CITY OF MCPHERSON 115KV					41
WERE WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.29562 WERE 259 -0.29562 WERE	CITY OF WINFIELD 69KV' CLR_1 .575 34KV'	16.47 40.0044	-0.00097 -0.29465 0.00128 -0.2969	41
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.29562 WERE	CLR_1 .575 54KV COFFEY COUNTY NO. 2 SHARPE 69KV	40.0044	0.00128 -0.2989	41
WERE	BPU - CITY OF MCPHERSON 115KV		COGENTRIX 345KV			41
				200		
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.29562 AEPW	'EASTMAN 138KV'	355	-0.00119 -0.29443	41
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.29562 EMDE	'ELK RIVER 345KV'	150	0.00128 -0.2969	41
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.29562 WERE	'EVANS ENERGY CENTER 138KV'	270.5388	0.00013 -0.29575	41
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.29562 AEPW	'FLINT CREEK 161KV'	400	0.00003 -0.29565	41
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.29562 AEPW	'KNOXLEE 138KV'	103	-0.00118 -0.29444	41
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.29562 KACP	'LACYGNE UNIT 345KV'	958	0.00478 -0.3004	41
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.29562 MIPU	'LAKE ROAD 161KV'	35	0.00444 -0.30006	41
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.29562 MIPU	'LAKE ROAD 34KV'	92	0.00444 -0.30006	41
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.29562 AEPW	'LEBROCK 345KV'	515	-0.00119 -0.29443	41
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.29562 KACP	'MARSHALL 161KV'	15	0.0029 -0.29852	41
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.29562 KACP	'MONTROSE 161KV'	351.9386	0.0046 -0.30022	41
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.29562 OKGE	'MUSKOGEE 345KV'	1516	-0.00098 -0.29464	41
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.29562 AEPW	'NARROWS 69KV'	22	-0.00152 -0.2941	41
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.29562 AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00038 -0.29524	41
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.29562 AEPW	'NORTHEASTERN STATION 345KV'	608	-0.00019 -0.29543	41
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.29562 AEPW	OEC 345KV	419	-0.00072 -0.2949	41
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.29562 OKGE	OMPA-KAW 69KV	19.7	-0.00194 -0.29368	41
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.29562 OKGE	OMPA-NAW 69KV OMPA-PONCA CITY 69KV	86.62021	-0.00194 -0.29368	41
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.29562 UKGE 259 -0.29562 EMDE	OVERA-POINCA CITY BENV	16	0.00082 -0.29644	41
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.29562 EMDE	PIRKEY GENERATION 138KV	440	-0.00118 -0.29444	41
	BPU - CITY OF MCPHERSON 115KV BPU - CITY OF MCPHERSON 115KV			440		41
WERE		259 -0.29562 AEPW	'RIVERSIDE STATION 138KV'		-0.00093 -0.29469	
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.29562 EMDE	'RIVERTON 161KV'	38	0.00102 -0.29664	41
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.29562 EMDE	'RIVERTON 69KV'	44.82093	0.001 -0.29662	41
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.29562 MIPU	'SIBLEY 161KV'	229.0592	0.00491 -0.30053	41
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.29562 MIPU	'SIBLEY 69KV'	45.99999	0.005 -0.30062	41
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.29562 EMDE	'STATE LINE 161KV'	471.4843	0.00102 -0.29664	41
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.29562 AEPW	'TULSA POWER STATION 138KV'	77	-0.00087 -0.29475	41
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.29562 AEPW	WELSH 345KV	960	-0.00133 -0.29429	41
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.29562 AEPW	'WILKES 138KV'	139.7875	-0.00123 -0.29439	41
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.29562 AEPW	WILKES 345KV	158.9639	-0.00121 -0.29441	41
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.29562 AEPW	COMANCHE 138KV	160	-0.00614 -0.28948	42
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.29562 AEPW	COMANCHE 69KV	63	-0.0061 -0.28952	42
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.29562 WERE	'GILL ENERGY CENTER 138KV'	77	-0.00315 -0.29247	42
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.29562 OKGE	'HORSESHOE LAKE 138KV'	91	-0.00297 -0.29265	42
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.29562 OKGE	'HORSESHOE LAKE 69KV'	16	-0.00291 -0.29271	42
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.29562 OKGE	'MCCLAIN 138KV'	478	-0.00331 -0.29231	42
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.29562 OKGE	'MUSTANG 138KV'	57.76465	-0.00323 -0.29239	42
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.29562 OKGE	MUSTANG 69KV	106	-0.00324 -0.29238	42
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.29562 OKGE	ONE OAK 345KV	50	-0.00293 -0.29269	42
	BPU - CITY OF MCPHERSON 115KV					
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.29562 OKGE 259 -0.29562 OKGE	'REDBUD 345KV' 'SEMINOLE 138KV'	250 484.787	-0.00267 -0.29295 -0.00308 -0.29254	42
WERE	'BPU - CITY OF MCPHERSON 115KV' 'BPU - CITY OF MCPHERSON 115KV'	259 -0.29562 OKGE 259 -0.29562 OKGE	'SEMINOLE 345KV' 'SMITH COGEN 138KV'	996 120	-0.00301 -0.29261 -0.00322 -0.2924	42
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.29562 OKGE	SOONER 138KV	505	-0.00217 -0.29345	42
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.29562 OKGE	'SOONER 345KV'	513	-0.00236 -0.29326	42
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.29562 AEPW	'SOUTHWESTERN STATION 138KV'	155	-0.00606 -0.28956	42
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.29562 WERE	'WACO 138KV'	17.947	-0.00282 -0.2928	42
WERE	'HUTCHINSON ENERGY CENTER 115KV'	381 -0.23794 WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02299 -0.26093	47
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67 -0.23783 WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02299 -0.26082	47
WERE	'HUTCHINSON ENERGY CENTER 115KV'	381 -0.23794 WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01718 -0.25512	48
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67 -0.23783 WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01718 -0.25501	48
WERE	'HUTCHINSON ENERGY CENTER 115KV'	381 -0.23794 WERE	'LAWRENCE ENERGY CENTER 230KV'	235.4122	0.00919 -0.24713	49
WERE	'HUTCHINSON ENERGY CENTER 115KV'	381 -0.23794 WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.00844 -0.24638	49
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67 -0.23783 WERE	'LAWRENCE ENERGY CENTER 230KV'	235.4122	0.00919 -0.24702	49
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67 -0.23783 WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.00844 -0.24627	49
WERE	'HUTCHINSON ENERGY CENTER 115KV'	381 -0.23794 MIPU	'ARIES 161KV'	300	0.00523 -0.24317	50
WERE	'HUTCHINSON ENERGY CENTER 115KV'	381 -0.23794 KACP	'HAWTHORN 161KV'	661.084	0.00529 -0.24323	50
WERE	'HUTCHINSON ENERGY CENTER 115KV'	381 -0.23794 KACP	'IATAN 345KV'	396	0.0076 -0.24554	50
WERE	'HUTCHINSON ENERGY CENTER 115KV'	381 -0.23794 KACP	'LACYGNE UNIT 345KV'	958	0.00478 -0.24272	50
WERE	'HUTCHINSON ENERGY CENTER 115KV'	381 -0.23794 MIPU	'LAKE ROAD 161KV'	35	0.00444 -0.24238	50
WERE	'HUTCHINSON ENERGY CENTER 115KV'	381 -0.23794 MIPU	'LAKE ROAD 34KV'	92	0.00444 -0.24238	50
WERE	'HUTCHINSON ENERGY CENTER 115KV'	381 -0.23794 KACP	'MONTROSE 161KV'	351.9386	0.0046 -0.24254	50
WERE	'HUTCHINSON ENERGY CENTER 115KV'	381 -0.23794 KACY	'NEARMAN 161KV'	77	0.00599 -0.24393	50
WERE	'HUTCHINSON ENERGY CENTER 115KV'	381 -0.23794 KACY	'NEARMAN 20KV'	220	0.00599 -0.24393	50
WERE	'HUTCHINSON ENERGY CENTER 115KV'	381 -0.23794 KACY	QUINDARO 161KV	116.9321	0.00596 -0.2439	50
WERE	'HUTCHINSON ENERGY CENTER 115KV'	381 -0.23794 KACY	QUINDARO 69KV	89.12805	0.00594 -0.24388	50
WERE	'HUTCHINSON ENERGY CENTER 115KV'	381 -0.23794 MIPU	SIBLEY 161KV	229.0592	0.00491 -0.24285	50
WERE	HUTCHINSON ENERGY CENTER 115KV	381 -0.23794 MIPU 381 -0.23794 MIPU	SIBLEY 69KV	45.99999	0.005 -0.24294	50
WERE	HUTCHINSON ENERGY CENTER 115KV	381 -0.23794 MIPU 381 -0.23794 MIPU	SOUTH HARPER 161KV	269.6653	0.00556 -0.2435	50
WERE		67 -0.23783 MIPU	ARIES 161KV	209.0053	0.00523 -0.24306	50
WERE	HUTCHINSON ENERGY CENTER 69KV		HAWTHORN 161KV	661.084		
WERE	'HUTCHINSON ENERGY CENTER 69KV' 'HUTCHINSON ENERGY CENTER 69KV'	67 -0.23783 KACP 67 -0.23783 KACP	IATAN 345KV		0.00529 -0.24312	50 50
				396	0.0076 -0.24543	
WERE	HUTCHINSON ENERGY CENTER 69KV	67 -0.23783 KACP	'LACYGNE UNIT 345KV'	958	0.00478 -0.24261	50
WERE	HUTCHINSON ENERGY CENTER 69KV	67 -0.23783 MIPU	'LAKE ROAD 161KV'	35	0.00444 -0.24227	50
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67 -0.23783 MIPU	'LAKE ROAD 34KV'	92	0.00444 -0.24227	50
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67 -0.23783 KACP	'MONTROSE 161KV'	351.9386	0.0046 -0.24243	50
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67 -0.23783 KACY	'NEARMAN 161KV'	77	0.00599 -0.24382	50
	and Maximum Increment were determine from the Souce and Sink O			· · · · · · · ·		

Maximum Decrement and Maximum Increment Factor = Source GSF - Sink GSF Redispatch Amount = Relief Amount / Factor

Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed:	EXIDE JUNCTION - SUMMIT 115KV CKT 1 EXIDE JUNCTION - SUMMIT 115KV CKT 1 To-From EAST MCPHERSON - SUMMIT 230KV CKT 1 5736857381 1568725687312207WP 12/1/07 - 4/1/08								
Season Flowgate Identified:	2007 Winter Peak								
Reservation	Relief Amount	Aggregate Relief Amount							
1161997	4.3	4.3							
		Maximum		Sink Control		Maximum			Aggregate Redispatch
Source Control Area	Source		GSF	Area	Sink		GSF	Factor	Amount (MW)
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.28459		SMOKEY HILLS 34KV	152	0.06203	-0.34662	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			JEFFREY ENERGY CENTER 230KV	470	0.01387	-0.29846	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28459		JEFEREY ENERGY CENTER 345KV	940	0.01959	-0.30418	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28459		'AES 161KV'	241	-0.00049	-0.2841	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28459		'ARIES 161KV'	300	0.00421	-0.2888	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28459	EMDE	'ASBURY 161KV'	191	0.00111	-0.2857	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28459	WERE	'CHANUTE 69KV'	34.818	0.00117	-0.28576	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28459	WERE	'CITY OF AUGUSTA 69KV'	15	0.00022	-0.28481	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28459	WERE	CITY OF BURLINGTON 69KV	20.551	0.00219	-0.28678	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28459	WERE	'CITY OF IOLA 69KV'	14.565	0.00137	-0.28596	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28459	WERE	'CITY OF WINFIELD 69KV'	8.080999	-0.0009	-0.28369	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28459		'CLR_1 .575 34KV'	58.9968	0.00092	-0.28551	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28459	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.95	0.00219	-0.28678	15

WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459		'COGENTRIX 345KV'	200		-0.28387	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459		'COMANCHE 138KV'	160	-0.00476	-0.27983	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459		COMANCHE 69KV	63	-0.00473	-0.27986	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459	AEPW	'EASTMAN 138KV'	355	-0.00092	-0.28367	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459		'ELK RIVER 345KV'	150	0.00092	-0.28551	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459		'EVANS ENERGY CENTER 138KV'	48.116	-0.00008	-0.28451	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459		'FITZHUGH 161KV'	75.99999	-0.00038	-0.28421	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459	AEPW	'FLINT CREEK 161KV'	400	0.00004	-0.28463	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459	KACP	'HAWTHORN 161KV'	455	0.00428	-0.28887	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459	KACP	'IATAN 345KV'	396	0.00625	-0.29084	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459	AEPW	'KNOXLEE 138KV'	103	-0.00091	-0.28368	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459	AEPW	'L&D13 69KV'	11	-0.00044	-0.28415	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459		'LACYGNE UNIT 345KV'	958	0.00384	-0.28843	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459		'LAKE ROAD 161KV'	35	0.00362	-0.28821	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459	MIPU	'LAKE ROAD 34KV'	92	0.00362	-0.28821	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459		'LAWRENCE ENERGY CENTER 230KV'	136.2384	0.00691	-0.2915	15
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28459		'LEBROCK 345KV'	515	-0.00091	-0.28368	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459		'MARSHALL 161KV'	15	0.00234	-0.28693	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459		'MCCLAIN 138KV'	478	-0.00258	-0.28201	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459	KACP	MONTROSE 161KV	221.828	0.00230	-0.2883	15
WERE	'BPU - CITY OF MCPHERSON 115KV'							
		259 -0.28459		'MUSKOGEE 345KV'	1516	-0.00075	-0.28384	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459		'NEARMAN 161KV'	16	0.00483	-0.28942	15
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28459		'NEARMAN 20KV'	220	0.00483	-0.28942	15
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28459	AEPW	NORTHEASTERN STATION 138KV	302	-0.00029	-0.2843	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459		'NORTHEASTERN STATION 345KV'	600	-0.00014	-0.28445	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459		'OEC 345KV'	419	-0.00055	-0.28404	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459		'OMPA-KAW 69KV'	11.60788	-0.00155	-0.28304	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459		'ONE OAK 345KV'	28	-0.00229	-0.2823	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459		'OZARK BEACH 161KV'	16	0.00066	-0.28525	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459		'PIRKEY GENERATION 138KV'	450	-0.00091	-0.28368	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459	KACY	'QUINDARO 161KV'	116.1971	0.00481	-0.2894	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459		'QUINDARO 69KV'	72	0.0048	-0.28939	15
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28459		'REDBUD 345KV'	250	-0.00208	-0.28251	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459		'RIVERSIDE STATION 138KV'	134	-0.00071	-0.28388	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459	EMDE	'RIVERTON 161KV'	38	0.00083	-0.28542	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459		'RIVERTON 69KV'	44.2151	0.0008	-0.28539	15
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28459		'SEMINOLE 138KV'	293.1916	-0.0024	-0.28219	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459		'SEMINOLE 345KV'	489	-0.00234	-0.28225	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459	MIDLI	SIBLEY 161KV	228,9858	0.00396	-0.28855	15
WERE	'BPU - CITY OF MCPHERSON 115KV'		MIPU	SIBLEY 69KV	45.99999	0.00390	-0.28863	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459	OKGE	'SMITH COGEN 138KV'	45.99999	-0.00251	-0.28803	15
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28459		SOONER 138KV	505	-0.00251		15
							-0.28287	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459		'SOONER 345KV'	513	-0.00186	-0.28273	15
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28459		SOUTH HARPER 161KV	35.6098	0.00447	-0.28906	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459		'SOUTHWESTERN STATION 138KV'	29	-0.0047	-0.27989	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459	EMDE	'STATE LINE 161KV'	333.8735	0.00083	-0.28542	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459		'WACO 138KV'	17.93	-0.00255	-0.28204	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459		'WELSH 345KV'	975.0001	-0.00103	-0.28356	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459	AEPW	WILKES 138KV	137.2888	-0.00095	-0.28364	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459		WILKES 345KV	136.729	-0.00093	-0.28366	15
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.22296	WERE	'SMOKEY HILLS 34KV'	152	0.06203	-0.28499	15
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67 -0.22285	WERE	'SMOKEY HILLS 34KV'	152	0.06203	-0.28488	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459	WERE	'COLBY 115KV'	7.326186	-0.035	-0.24959	17
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.22296	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01387	-0.23683	18
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.22296		'JEFFREY ENERGY CENTER 345KV'	940	0.01959	-0.24255	18
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67 -0.22285		'JEFFREY ENERGY CENTER 230KV'	470	0.01387	-0.23672	18
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67 -0.22285		'JEFFREY ENERGY CENTER 345KV'	940	0.01959	-0.24244	18
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.16158		'SMOKEY HILLS 34KV'	152	0.06203	-0.22361	19
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28459		'GRAY COUNTY WIND FARM 115KV'	60	-0.05806	-0.22653	19
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28459		JUDSON LARGE 115KV	19.24169	-0.05804	-0.22655	19
WERE	HUTCHINSON ENERGY CENTER 115KV	601 -0.22296		AES 161KV	241	-0.00049	-0.22247	13
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.22296		'ARIES 161KV'	300	0.00421	-0.22717	19
WERE	HUTCHINSON ENERGY CENTER 115KV	601 -0.22296	EMDE	'ASBURY 161KV'	191	0.00421	-0.22407	19
WERE	HUTCHINSON ENERGY CENTER 115KV	601 -0.22296	WERE	CHANUTE 69KV	34.818	0.00117	-0.22407	19
WERE	HUTCHINSON ENERGY CENTER 115KV	601 -0.22296		CITY OF AUGUSTA 69KV	34.010	0.000117	-0.22413	19
							0.220.0	
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.22296 601 -0.22296		CITY OF BURLINGTON 69KV	20.551	0.00219	-0.22515 -0.22433	19
WERE	'HUTCHINSON ENERGY CENTER 115KV'			CITY OF IOLA 69KV	14.565			19
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.22296		CITY OF WINFIELD 69KV	8.080999	-0.0009	-0.22206	19
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.22296	WERE	CLR_1 .575 34KV	58.9968	0.00092	-0.22388	19
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.22296		'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.95	0.00219	-0.22515	19
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.22296		'COGENTRIX 345KV'	200	-0.00072	-0.22224	19
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.22296		'EASTMAN 138KV'	355	-0.00092	-0.22204	19
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.22296		'ELK RIVER 345KV'	150	0.00092	-0.22388	19
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.22296	WERE	'EVANS ENERGY CENTER 138KV'	48.116	-0.00008	-0.22288	19
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.22296	AEPW	'FITZHUGH 161KV'	75.99999	-0.00038	-0.22258	19
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.22296	AEPW	'FLINT CREEK 161KV'	400	0.00004	-0.223	19
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.22296	KACP	'HAWTHORN 161KV'	455	0.00428	-0.22724	19
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.22296		'IATAN 345KV'	396	0.00625	-0.22921	19
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.22296		'KNOXLEE 138KV'	103	-0.00091	-0.22205	19
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.22296	AEPW	'L&D13 69KV'	11	-0.00044	-0.22252	19
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.22296		'LACYGNE UNIT 345KV'	958	0.00384	-0.2268	19
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.22296		'LAKE ROAD 161KV'	35	0.00362	-0.22658	19
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.22296		LAKE ROAD 34KV	92	0.00362	-0.22658	13
WERE	HUTCHINSON ENERGY CENTER 115KV	601 -0.22296		'LAWRENCE ENERGY CENTER 230KV'	136.2384	0.00691	-0.22987	19
WERE	HUTCHINSON ENERGY CENTER 115KV	601 -0.22296		LEBROCK 345KV	515	-0.00091	-0.22205	19
				MARSHALL 161KV	15	0.00234	-0.2253	19
WERE								
WERE WERE	'HUTCHINSON ENERGY CENTER 115KV' 'HUTCHINSON ENERGY CENTER 115KV'	601 -0.22296 601 -0.22296		'MONTROSE 161KV'	221.828	0.00234	-0.22667	19

 Image: Weak way in the second secon

Upgrade: Limiting Facility: Direction: Line Outage:	EXIDE JUNCTION - SUMMIT 115KV CKT 1 EXIDE JUNCTION - SUMMIT 115KV CKT 1 To->From EAST MCPHERSON - SUMMIT 230KV CKT 1							
Flowgate:	57368573811568725687312208SP							
Date Redispatch Needed:	Starting 2008 6/1 - 10/1 Until EOC							
Season Flowgate Identified:	2008 Summer Peak							
		Aggregate Relief						
Reservation	Relief Amount	Amount						
1161506	5 13.3	25.3						
1161997	7 12.0	25.3						
			Sink					Aggregate
		Maximum	Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457 WERE	'SMOKEY HILLS 34KV'	152	0.06204	-0.34661	1 73
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457 WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.0196		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457 WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01387		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457 KACP	'BULL CREEK 161KV'	308	0.00509	-0.28966	87
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457 KACP	'IATAN 345KV'	396	0.00627	-0.29084	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457 WERE	'LANG 7 345 345KV'	310	0.00734	-0.29191	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457 WERE	'LAWRENCE ENERGY CENTER 230KV'	251.3459	0.00692	-0.29149	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457 KACY	'NEARMAN 161KV'	77	0.00484	-0.28941	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457 KACY	'NEARMAN 20KV'	220	0.00484	-0.28941	1 87
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457 KACY	'QUINDARO 161KV'	135.2048	0.00481	-0.28938	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457 KACY	'QUINDARO 69KV'	140	0.0048	-0.28937	7 87
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457 MIPU	'SOUTH HARPER 161KV'	315	0.00447	-0.28904	1 87
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457 WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.00606	-0.29063	3 87

BRE         USE OF SUMPRISES 180/         280         Description         Description         Basel Test         Basel Te	WEDE		050	0.00457		10050 10105	000	0.00404	0.00070 00
Math. L. D. 10         Math. L	WERE								
NUM_CONTRONS         NUM_CONTRONS<									
BEEL         DP., C. TO'S MC-REGION 118V         280         2482 (PL)         Offention 118V         180         5.487           DEC         MOL, C. TO'S MC-REGION 118V         283         2482 (ML)         140 (ML)         3.0         5.001									
BALL         DUD         Differ         Differ <thdiffer< th=""></thdiffer<>						CITY OF HIGGINSVILLE 69KV			
MED.         UPU.CPO M MOTINGON 1997         280         2 mod Core         1 mod Core         2 mod C									
TEC.         UP_C - OF 0 MORESQUE (SOV)         Add 0 August									
BEEL         UPU_CTY MORESSEL INFO         28         Case         MARKED         MARKED         ADD/CTY MORESSEL         AD									
MED         DPL-CPT OF MONISSION 1990/         ADD         ADD </td <td>WERE</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	WERE								
BEE         BL. OT ON MURSEON 1997         280 ABS0 1997         BR.J. 1997         22.000         ADS0 100         ADS0 10	WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	KACP		352.0817	0.00371	-0.28828 88
BEE         BL. OT ON MURSEON 1997         280 ABS0 1997         BR.J. 1997         22.000         ADS0 100         ADS0 10	WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	KACP	PAOLA COMBUSTION TURBINES 161KV	63.0542	0.0043	-0.28887 88
MEDIC         BPL_CTY OF XPARESON 1180//         220         Add PULY         Max         Max <t< td=""><td>WERE</td><td>'BPU - CITY OF MCPHERSON 115KV'</td><td>259</td><td>-0.28457</td><td>MIPU</td><td>SIBLEY 161KV</td><td>231.6823</td><td>0.00396</td><td>-0.28853 88</td></t<>	WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	MIPU	SIBLEY 161KV	231.6823	0.00396	-0.28853 88
MERE         IPU-CITY OF MONESSON 199V         220         0.280         DES	WERE	'BPU - CITY OF MCPHERSON 115KV'	259						
NERE         BPU_CITY OF DEVERSION 1000/**         258         CASE         NAME         <	WERE								
BEEL         BULL OF OF WARDESON INSUL         320         4.4422 (AP)         COLORINA MONTA         520         4.2002 (AD)         4.2002 (AD) <th< td=""><td>WERE</td><td></td><td>259</td><td>-0.28457</td><td>EMDE</td><td>'ASBURY 161KV'</td><td></td><td>0.00112</td><td>-0.28569 89</td></th<>	WERE		259	-0.28457	EMDE	'ASBURY 161KV'		0.00112	-0.28569 89
BREE         BPU-CITY OF XAPHEROAL INSUL         236         4.885         4.895         4.284         4.89         4.284         4.89         4.284         4.89           REE         BPU-CITY OF XAPHEROAL INSUL         2.39         4.284         4.89         4.284         4.89         4.284         4.89         4.284			259						
PREE         BULLOTY OF KOMPESSAL ISSUE         DSB / DBB / DBC / D									
By:         Display         Display <thdisplay< th=""> <thdisplay< th=""> <thdispl< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thdispl<></thdisplay<></thdisplay<>									
WREE         BPU_CITY OF MOMERSON INSV         229         cb.BBS / PMV         TTRZOBUT HINY         114         Colors         Colors<	WERE	PRUL CITY OF MORHERSON 115KV							
MEDIC         BULL CTY OF MON-HESSION         LBAS         L		PRU CITY OF MORHERSON 115KV							
WHEE         WHU CUT OF MON-RESON 1180/*         28         4.842         (FPV         MODELE 1980/*         121         120         0.2007									
Method         Bit OFT OF MAPHERON INSY         28         3482 Function         1119         1000         42857           WEE         Bit OFT OF MAPHERON INSY         28         42867 FUNCTION         230         E8           WEE         Bit OFT OF MAPHERON INSY         28         42867 FUNCTION         150         42867           WEE         Bit OFT OF MAPHERON INSY         28         42867 COR         MSSCORE INSY         166         40000         4286           WEE         Bit OFT OF MAPHERON INSY         28         42867 COR         MSSCORE INSY         166         40001         4286           WEE         Bit OFT OF MAPHERON INSY         28         42867 COR         MSSCORE INSY         166         40001         4286           WEE         Bit OFT OF MAPHERON INSY         28         42867 MPT         MSSCORE INSY         166         40001         4286           WEE         Bit OFT OF MAPHERON INSY         28         42867 MPT         MSSCORE INSY         168         42867 MPT           WEE         Bit OFT OF MAPHERON INSY         28         42867 MPT         MSSCORE INSY         168         42867 MPT           WEE         Bit OFT OF MAPHERON INSY         28         42867 MPT         MSSCORE INSY         168									
WHEE         BUIL OF YOR MAPHERON 1180/         20         2480/24PV         LBROOD 3400/         665         40000         4.2026         655           WEE         BUIL OF YOR MAPHERON 1180/         20         2.2027         10000         4.2026         10000									
WHEE         BUL, CHY OF KOMERSON 116V         226         3.880//KPW         UseRRAW 158V         7.98990         4.0000         -3.830//KPW         100           WEEL         BUL, CHY OF KOMERSON 116V         226         -3.860//KPW         MONTON 100//KPM 1		BPU - CITY OF MCPHERSON 115KV							
WHEE         WH.CTYLY OF KERPESS 11 (SV)         286         0.382 (GGE         MUSECORE         MUSECORE<									
NEEE         BPU_CITY OF MCPHERSON 1150/         226         -0.2867/06E         MUSICOEE 346X/V         956         4.0007         4.208         6.86           BPU_CITY OF MCPHERSON 1150/         220         -0.2867/07E         MUSICOEE 346X/V         786         4.0007         -0.288         6.86           BPU_CITY OF MCPHERSON 1150/         280         -0.2867/07E         752         4.0007         -0.288         6.88           BPU_CITY OF MCPHERSON 1150/         280         -0.2867/07E         762         5467/         7667/         762		BPU - CITY OF MCPHERSON 115KV							
NEED         BPL. CITY OF KEPERSON 115V         286         4-2462 / KPY         NORTHER STEM STATUDA 146V         666         40.003         4-2462 / KPY									
NHEE         RPJ. OT/Y OF MCPHERON 118V         280         AddWI / PM         NOTHERASTREE STATION 340V         Cell         6.0013         0.3442         DB           MEEL         BPJ. OTY OF MCPHERON 118V         280         -0.3407         REF         BPJ. OTY OF MCPHERON 118V         280         -0.3407         BEF         BPJ. OTY OF MCPHERON 118V         280         -0.3407         BEF         BPJ. OTY OF MCPHERON 118V         280         -0.3407         BEF         ADDIT         -0.3838         BEF           WEEL         BPJ. OTY OF MCPHERON 118V         280         -0.3407         BEF         ADDIT         -0.3838         BEF           WEEL         BPJ. OTY OF MCPHERON 118V         280         -0.3407         BEF         ADDIT         -0.3438         BEF         ADDIT	WERE								
WHEE         BP1. CITY OF MCPHERSON. 116V/         238         -2.8407 (APV         CEC. 34AV         PC         CEC. 34AV         PC         CEC. 34AV         PE         2.80018         -2.8301         CES.         SER         PE         CES.         SER	WERE	'BPU - CITY OF MCPHERSON 115KV'				'NORTHEASTERN STATION 138KV'			
WRE         BP1-CITY OF MCPHESON 118V         220         -0.3897 (SME)         BMA-PONCA OTY OF MEV         197.2007         -0.0018         -0.3832         BE           MRE         BP1-CITY OF MCPHESON 118V         220         -0.3897 (SME)         BMA         -0.0018         -0.0018         -0.0008	WERE								
NEEE         BPJCITY OF MCPHESON 118V/         228         -2.8407 (ORE)         OWER PAYSAC DTV         12.2207         -0.012         -0.3332         -0.8332         <	WERE								
WERE         BPU-CITY OF MCPHERSON 116V         226         0.4847 (2PV)         FUX RESIDE STATUS         561         0.0007         0.2384         Description           MEED         DPU-CITY OF MCPHERSON 115V         226         0.4847 (2068)         115V         88.862 (2007)         115V         88.862 (2007)         126.363 (2007)         228.363 (2007)         88.962 (2007)         126.95 (2007)         126.363 (2007)	WERE		259	-0.28457	OKGE		157.2592	-0.00155	-0.28302 89
WERE         BPU-CITY OF MCPHERSON 116V         226         0.4847 (2PV)         FUX RESIDE STATUS         561         0.0007         0.2384         Description           MEED         DPU-CITY OF MCPHERSON 115V         226         0.4847 (2068)         115V         88.862 (2007)         115V         88.862 (2007)         126.363 (2007)         228.363 (2007)         88.962 (2007)         126.95 (2007)         126.363 (2007)	WERE	'BPU - CITY OF MCPHERSON 115KV'		-0.28457	AEPW	'PIRKEY GENERATION 138KV'			
WERE         BPU CITY OF MOPHERSON 115V         220         0.4847 [2006]         TWARTEN 115V         48.88612         0.0003         0.2533         288           WERE         BPU CITY OF MOPHERSON 115V         220         0.4847 [2006]         TWARTEN 115W         41.0248         0.000         0.2533         88           WERE         BPU CITY OF MOPHERSON 115V         220         0.4447 [2006]         CONRT 844V         10.0         0.0000         0.2333         88           WERE         BPU CITY OF MOPHERSON 115V         220         0.4447 [2006]         TWARTEN 115V         10.0         0.0000         0.2333         68           WERE         BPU CITY OF MOPHERSON 115V         220         0.4447 [2007]         TWERE TWI TISKY         10.0         0.0000         0.2333         68           WERE         BPU CITY OF MOPHERSON 115V         220         0.4447 [2077]         WERE TWI TISKY         10.0         0.0000         0.2335         68           WERE         BPU CITY OF MOPHERSON 115V         220         0.4447 [2077]         WERE TWI TISKY         10.00000         0.2356         68           WERE         BPU CITY OF MOPHERSON 115V         220         0.4447 [207]         MULES 134V         115         0.0001         0.0001         0.0001	WERE		259	-0.28457	AEPW		640		-0.28384 89
WERE         BPU_CTTY OF MCPHERSON TISKY         296         0.3807         Rev         110248         0.000         0.2837         0.885           WERE         BPU_CTTY OF MCPHERSON TISKY         226         0.3847         RCM         0.0017         0.3008         0.3807         RCM         0.0017         0.3008         0.3807         RCM         0.0017         0.3008         0.3807         RCM         RCM         RCM         0.0017         0.3008         0.3808         RCM         RCM         RCM         RCM         RCM         0.0008         0.3288         RCM         RCM <td>WERE</td> <td>'BPU - CITY OF MCPHERSON 115KV'</td> <td></td> <td>-0.28457</td> <td>EMDE</td> <td>'RIVERTON 161KV'</td> <td></td> <td></td> <td></td>	WERE	'BPU - CITY OF MCPHERSON 115KV'		-0.28457	EMDE	'RIVERTON 161KV'			
WERE         BPU_CITYO FAUCHERSON 1184V         228         24847/CGE         BOOLER JARV         655         4.0171         4.2888         685           WERE         BPU_CITYO FAUCHERSON 1184V         228         2.4847/CGE         BOOLER JARV         616         4.0168         4.2889         BR           WERE         BPU_CITYO FAUCHERSON 1184V         228         2.4847/CGE         BOOLER JARV         616         4.0161         4.2883         BR           WERE         BPU_CITYO FAUCHERSON 1184V         228         2.4847/ARV         VELETFA 138V         60641         4.00164         4.2853         BS           WERE         BPU_CITYO FAUCHERSON 1184V         226         2.4847/ARV         WELETFA 138V         3004         4.00164         4.2853         BS           WERE         BPU_CITYO FAUCHERSON 1184V         226         2.4847/ARV         4.8440V         4.00164         4.2853         BS         4.00164         4.2863         4.8440V         4.00164         4.2863         4.8440V         4.00164         4.2864         BS         4.00164         4.2864         BS         4.00164         4.2864         BS         4.00164         4.2864         BS         4.2864         BS         4.00164         4.2864         4.8467         4.8467									
WERE         BPU_CITYO FWDMERSON 118V/         229         42.867         GOOD         GOOD         42.868         BOL         GOOD         42.861         BOL         GOOD         42.861         BOL         GOOD         42.861         ADDIT	WERE	BPU - CITY OF MCPHERSON 115KV							
WERE         BPU_CITYO FWCHERSON 118V/         2289         24857         PADE         TATE LINK         950         0.00002         0.28389         BE           WERE         BPU_CITYO FWCHERSON 118V/         226         0.24817         APV         1004         0.00002         0.28389         BE           WERE         BPU_CITYO FWCHERSON 118V/         226         0.24817         APV         1004         0.00002         0.2839         BE           WERE         BPU_CITYO FWCHERSON 118V/         226         0.24817         APV         100         0.00002         0.2839         BE           WERE         BPU_CITYO FWCHERSON 118V/         30         0.24847         APV         116         0.00002         0.2839         BE           WERE         HUTCHINGONERGY CENTER 68/V         61         0.2229         WERE         SAUCHINGONERGY CENTER 68/V         16         0.0007         0.2839         APV         116         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.00021         0.0002         0.0002         <		BPU - CITY OF MCPHERSON 115KV							-0.28269 89
WERE         BPU-CITY OF MCHRESON 11SV         229         d.287 / AFPW         TULS APV TULS APV TULS APV TULS APV         188         0.0008         d.2889         0.68           WERE         BPU-CITY OF MCHRESON 11SV         228         0.3847 / AFPW         WILLETIAK 158V         90.0017         0.0008         0.2801         0.0008         0.2801         0.0008         0.2801         0.0008         0.2801         0.0008         0.2801         0.0008         0.2801         0.0008         0.2801         0.0008         0.2801         0.0008         0.2801         0.0008         0.2801         0.0008         0.2801         0.0008         0.2801         0.0008         0.2801         0.0008         0.2801         0.0008         0.2801         0.0008         0.2801         0.0008         0.2801         0.0008         0.2801         0.0008         0.2801         0.0008         0.0007         0.2808         0.0008         0.0007         0.0008         0.2801         0.0008         0.0007         0.0008         0.0007         0.0008         0.0007         0.0008         0.0007         0.0008         0.0007         0.0008         0.0007         0.0008         0.0007         0.0008         0.0007         0.0008         0.0008         0.0008         0.0007         0.0008 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.00.00</td> <td></td>								0.00.00	
WERE         BPU_CITYO FM MCHERSON 115KV         258         2387         AFPW         WELEN 136KV         86         -0.0114         23816         98           WERE         BPU_CITYO FM MCHERSON 115KV         239         23867         AFPW         WELEN 346KV         104         -0.0014         -23851         58           WERE         BPU_CITYO FM MCHERSON 115KV         239         23867         AFPW         WELEN 346KV         116         -0.0004         -23851         68           WERE         HUTCHNSON ENROYCENTER 195V         204         23847         AFPW         23867         AFPW         116         -0.0004         -23861         68           WERE         HUTCHNSON ENROYCENTER 195V         204         24867         MERE         200024         -23849         686         -0.00071         -0.20071 <t< td=""><td></td><td>PDU CITY OF MCPHERSON 115KV</td><td></td><td>*0.28457</td><td></td><td></td><td>196</td><td>0.00062</td><td></td></t<>		PDU CITY OF MCPHERSON 115KV		*0.28457			196	0.00062	
WERE         BPJ_CITY OF MCHRESON 115KV         259         0.2467 AEPW         WILES 158KV         350,000         0.2383         BE           WERE         BPJ_CITY OF MCHRESON 115KV         259         0.2467 AEPW         WILES 158KV         30,000         0.2383         BE           WERE         BPJ_CITY OF MCHRESON 115KV         259         0.2467 AEPW         WILES 158KV         30,000         0.2383         BE           WERE         BPJ_CITY OF MCHRESON 115KV         259         0.2467 AEPW         WILES 158KV         111         0.0006         0.23847         BE           WERE         BPJ_CITY OF MCHRESON 115KV         259         0.2467 MEPW         COMMACHE 138KV         616         0.0048         0.2777         90           WERE         BPJ_CITY OF MCHRESON 115KV         259         0.2467 MERE         0.8467 MERE         0.8467 MERE         0.8007         0.321 FB         0.3261 MERE         0.3261 MERE         0.3231 MERE         0.3221 FB         0.3261 MERE         0.3221 MERE         0.3261 MERE         0.3231 MERE         0.3231 MERE         0.3231 MERE         0.3231 MERE         0.3261 MERE         0.3231 MERE         0.3231 MERE         0.3261 MERE <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
WERE         BPU-CITY OF MOMERSON 115KV         2259         22867 JAPV         WILES 346KV         300.000         -0.2083 JA         -0.000         -0.2083 JA         -									
WERE         BPJ_CITY OF MONHERSON 1150V         2399         0.22457         APPW         WILES JANCY         311         0.0008         0.2288         BE           WERE         HUTCHINSON EDERGY CENTER 165V         0.7244         WERE         SMUCRY HILLS SAVC         152         0.02604         -0.2489         BE           WERE         BUL_CITY OF MONHERSON T16V         259         0.2464         JANCRY HILLS SAVC         152         0.02604         -0.2487         BE           WERE         BUL_CITY OF MONHERSON T16VC         259         0.2467         JANCRY HILLS SAVC         155         0.0227         0.2371         SE           WERE         BPJ_CITY OF MONHERSON T16VC         259         0.24457         ORGE         MORESTONE MARK 138VC         815         0.0227         0.2321         92           WERE         BPJ_CITY OF MONHERSON T16VC         259         0.24457         ORGE         MUSR 138VC         467         0.0223         0.2321         0.2232         92         92         0.24457         ORGE         MUSR 138VC         468         0.0231         0.2231         0.2231         0.2231         0.2231         0.2231         0.2231         0.2231         0.2231         0.2231         0.2231         0.2232         0.2331		BPU - CITY OF MCPHERSON 115KV							
WERE         HUTCHINSON ENERGY CENTER 115V/         30.46875         -0.2234 WRRE         SMOKY HILLS 34V/         152         0.6024         -0.3487           WERE         BU- CITY OF MCHERSON T15V/         226         -0.2846 / MER         SMOKY HILLS 34V/         162         0.6024         -0.2487         88           WERE         BU- CITY OF MCHERSON T15V/         226         -0.2847 / MER         SMOKY HILLS 34V/         163         -0.0024         -0.2487         98           WERE         BPU- CITY OF MCHERSON T15V/         226         -0.2847 / MER         GMUKATON         65.         -0.0227         -0.2827         98           WERE         BPU- CITY OF MCHERSON T15V/         226         -0.2847 / MER         GMUKATON         46.         -0.0223         -0.2824         98           WERE         BPU- CITY OF MCHERSON T15V/         226         -0.2847 / MER         -0.0231         -0.2821         <									
WERE         HUTCHINSON ENERGY CENTER 66V.         67         -0.2228 WREE         BWCEY         1152         0.08604         -0.27971         0.60           WERE         BPU - CITY OF MCHERGON 115KV         226         -0.2467 AEPW         COMANCHE 68KV         63         -0.0467         -0.27971         0.60           WERE         BPU - CITY OF MCHERGON 115KV         226         -0.2467 AEPW         COMANCHE 68KV         63         -0.0477         -0.27971         0.60           WERE         BPU - CITY OF MCHERGON 115KV         226         -0.28477         0.60         -0.27971         0.60           WERE         BPU - CITY OF MCHERGON 115KV         259         -0.28477         0.68         -0.00257         -0.2823         0.98           WERE         BPU - CITY OF MCHERGON 115KV         259         -0.28477         0.66         -0.00257         -0.2823         0.98           WERE         BPU - CITY OF MCHERGON 115KV         229         -0.28477         0.66         -0.00257         -0.2823         0.98           WERE         BPU - CITY OF MCHERGON 115KV         229         -0.28477         0.66         -0.00257         -0.2824         0.98         -0.2824         0.98         -0.2824         0.98         -0.0026         -0.2826 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
WERE         BPU_CITY OF MOMENESON 115KV         2269         -0.28457 AEPW         COMANCHE 138KV         1160         -0.00486         6.27971         050           WERE         BPU_CITY OF MOMENESON 115KV         2269         -0.28457 MERE         TSRV         155         -0.00279         0.2178         050           WERE         BPU_CITY OF MOMENESON 115KV         2269         -0.28457 MERE         TSRV         155         -0.00251         -0.22804         256           WERE         BPU_CITY OF MOMENESON 115KV         2269         -0.28457 DKGE         HUNDENSONE         955         -0.00251         -0.22804         950           WERE         BPU_CITY OF MOMENESON 115KV         2269         -0.28457 DKGE         MUSTANG 138KV         300         -0.00231         -0.22828         950           WERE         BPU_CITY OF MOMENESON 115KV         2269         -0.28457 DKGE         NEGANOV         200         -0.00231         -0.22828         950           WERE         BPU_CITY OF MOMENESON 115KV         2269         -0.28457 DKGE         NEGANOV         960         -0.00231         -0.22828         928           WERE         BPU_CITY OF MOMENESON 115KV         2269         -0.28457 DKGE         NEGANOV         960         -0.00261         -0.28457 DKGE <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
WERE         BPU_CITY OF MOPHERSON 115KV         2261         -0.28457 MERE         COMANCHE 68KV         661         -0.00479         -2.7978         0.80           WERE         BPU_CITY OF MOPHERSON 115KV         2261         -2.88477 MCRE         Gut LENGY CENTER 138KV         8615         -0.00237         0.2827         0.50           WERE         BPU_CITY OF MOPHERSON 115KV         2261         -2.88477 MCRE         MUCRAN 138KV         8615         -0.00237         0.2827         0.50           WERE         BPU_CITY OF MOPHERSON 115KV         2261         -0.28477 MCRE         MUCRAN 0447         36.60         -0.00257         0.2827         0.50           WERE         BPU_CITY OF MOPHERSON 115KV         2261         -0.28477 MCRE         MUCRAN 04457         306         -0.00257         0.2827         900           WERE         BPU_CITY OF MOPHERSON 115KV         2261         -0.28477 MCRE         SEMINOLE 135KV         4263         -0.00231         0.28287         900         -0.00217         0.28287         900         -0.00217         0.28287         900         -0.00217         0.28287         900         -0.00217         0.28287         900         -0.00217         0.28287         900         -0.00216         0.28247         900         -0.00216									
WERE         BPU - CITY OF MCPHERSON 115V/         228         -0.28477 WREE         GLL ENROY CENTER 138V/         155         -0.00237         0.28178         95           WERE         BPU - CITY OF MCPHERSON 115V/         228         -0.28477 0KGE         HORSSHOELLKE 138V/         471         -0.00237         -0.2824         96           WERE         BPU - CITY OF MCPHERSON 115V/         228         -0.28477 0KGE         MKCIAIN 138K/         472         -0.00237         -0.2824         96           WERE         BPU - CITY OF MCPHERSON 115V/         228         -0.28477 0KGE         MKLTANG 138K/         106         -0.00231         -0.2821         -0.2821         0.28247         0.062         MKLTANG 138K/         300         -0.00231         -0.2821         0.2821         0.2821         0.2821         0.2821         0.2821         0.2821         0.8281         0.00231         -0.2821         95           WERE         BPU - CITY OF MCPHERSON 115V/         229         -0.28477 0KGE         95KHNOLE 138K/         485K         485K         400231         -0.2821         95           WERE         BPU - CITY OF MCPHERSON 115V/         229         -0.28477 0KGE         95KHNOLE 138K/         1000231         -0.2221         95           WERE         BPU - CITY OF		'BPU - CITY OF MCPHERSON 115KV'		-0.28457	AEPW	COMANCHE 138KV			-0.27971 90
WERE         BPU - CITY OF MCPHERSON 115KV         228         -0.28457 OKGE         WCRAL NARE SHOUL AND SHOW         47.8         -0.00237         -0.222.9         92           WERE         BPU - CITY OF MCPHERSON 115KV         228         -0.28457 OKGE         MCLANN 138KV         386.5         -0.00237         -0.282.9         92         -0.28457 OKGE         MLSTANG 138KV         386.5         -0.00231         -0.280.9         66           WERE         BPU - CITY OF MCPHERSON 115KV         228         -0.28477 OKGE         MLSTANG 138KV         386.5         -0.00231         -0.280.9         -0.28477 OKGE         MLSTANG 138KV         386.5         -0.00231         -0.282.9         -0.28477 OKGE         MLSTANG 138KV         39.0         -0.00211         -0.282.47         PKB         -0.00211         -0.282.16         PKB         -0.00231         -0.282.16         PKB         -0.2867         PKGE         SEMNOLE 138KV         128.0         -0.282.16         PKB         -0.282.16         PKB         -0.00231         -0.282.16         PKB         PKB         -0.00231         -0.282.16         PKB									
WERE         BPU - CITY OF MCPHERSON 115KV         226         -0.28457 OKGE         MCCLUN 158KV         476         -0.0257         -0.2820         958           WERE         BPU - CITY OF MCPHERSON 115KV         226         -0.28457 OKGE         MUSTANG 138KV         365.5         -0.0253         -0.0254         -0.28204         959           WERE         BPU - CITY OF MCPHERSON 115KV         226         -0.28457 OKGE         MUSTANG 698KV         300         -0.0221         -2.2820         959           WERE         BPU - CITY OF MCPHERSON 115KV         226         -0.2847 OKGE         REDBUD 366KV         300         -0.0221         -2.2824         959           WERE         BPU - CITY OF MCPHERSON 115KV         226         -0.2847 OKGE         SMITH COGEN 135KV         466         -0.0226         -0.2026         -0.2026         -0.2026         -0.2026         -0.2026         -0.2026         -0.2026         -0.2026         -0.2026         -0.2026         -0.0026         -0.2026         -0.0226         -0.2026         -0.2026         -0.0026         -0.2026         -0.2026         -0.0226         -0.2026         -0.0026         -0.2026         -0.0226         -0.0226         -0.0226         -0.0226         -0.0226         -0.0226         -0.0226         -0.0226	WERE	'BPU - CITY OF MCPHERSON 115KV'				'GILL ENERGY CENTER 138KV'	155		
WERE         PPJ - CITY OF MCPHERSON 115KV         2280         -0.28457         OKGE         MUSTANG 58KV         366.5         -0.0223         -0.28203         959           WERE         PPJ - CITY OF MCPHERSON 115KV         2280         -0.28457         OKGE         NICTANG 58KV         300         -0.02231         -0.28203         959           WERE         BPJ - CITY OF MCPHERSON 115KV         2280         -0.28457         OKGE         NEDU JASKV         300         -0.0221         -0.28247         OKGE         NEDU JASKV         230         -0.0214         -0.28247         0.0021         -0.28247         0.0021         -0.28247         0.0021         -0.28247         0.0021         -0.28247         0.0021         -0.28247         0.0021         -0.28247         0.0021         -0.28247         0.0024         -0.28247         0.0024         -0.28247         0.0024         -0.28247         0.0024         -0.28247         0.0024         -0.28247         0.0024         -0.28247         0.0024         -0.28247         0.0024         -0.28247         0.0024         -0.28247         0.0016         -0.28247         0.0016         -0.28247         0.0016         -0.28247         0.0016         -0.28247         0.0016         -0.28247         0.0016         -0.22847         <	WERE	'BPU - CITY OF MCPHERSON 115KV'							-0.28224 90
WERE         BPU_CITY OF MCPHERSON 115KV         2269         -0.28457 OKGE         MUSTANG 69KV         106         -0.00254         -0.28203         0.92           WERE         BPU_CITY OF MCPHERSON 115KV         226         -0.28457 OKGE         REDBU 345KV         300         -0.0021         -0.28247         98           WERE         BPU_CITY OF MCPHERSON 115KV         226         -0.28457 OKGE         REDBU 345KV         485         -0.2837         -0.28247         98           WERE         BPU_CITY OF MCPHERSON 115KV         226         -0.28457 OKGE         SEMINOLE 345KV         485         -0.28267         -0.28267         -0.28267         -0.28267         -0.28677 OKGE         SEMINOLE 345KV         400         -0.0023         -0.28271         98         -0.28677 OKGE         SEMINOLE 345KV         210         -0.2025         -0.28677 OKGE         SEMINOLE 345KV         210         -0.2025         -0.28677 OKGE         SEMINOLE 345KV         310         -0.22789         92         -0.28677 OKGE         SEMINOLE 345KV         310         -0.28677 OKGE         3260         -0.28677 OKGE         3260         -0.28677 OKGE         3600         -0.22817         92         -0.28677 OKGE         3600         -0.28677 OKGE         3600         -0.22817         92         -0.28677 OKGE	WERE								0.202
WERE         BPU_CITY OF MCPHERSON 115KV         2269         -0.28457 OKGE         MUSTANG 69KV         106         -0.00254         -0.28203         0.92           WERE         BPU_CITY OF MCPHERSON 115KV         226         -0.28457 OKGE         REDBU 345KV         300         -0.0021         -0.28247         98           WERE         BPU_CITY OF MCPHERSON 115KV         226         -0.28457 OKGE         REDBU 345KV         485         -0.2837         -0.28247         98           WERE         BPU_CITY OF MCPHERSON 115KV         226         -0.28457 OKGE         SEMINOLE 345KV         485         -0.28267         -0.28267         -0.28267         -0.28267         -0.28677 OKGE         SEMINOLE 345KV         400         -0.0023         -0.28271         98         -0.28677 OKGE         SEMINOLE 345KV         210         -0.2025         -0.28677 OKGE         SEMINOLE 345KV         210         -0.2025         -0.28677 OKGE         SEMINOLE 345KV         310         -0.22789         92         -0.28677 OKGE         SEMINOLE 345KV         310         -0.28677 OKGE         3260         -0.28677 OKGE         3260         -0.28677 OKGE         3600         -0.22817         92         -0.28677 OKGE         3600         -0.28677 OKGE         3600         -0.22817         92         -0.28677 OKGE	WERE	'BPU - CITY OF MCPHERSON 115KV'		-0.28457	OKGE	'MUSTANG 138KV'	365.5	-0.00253	-0.28204 90
WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.2827 (OGE         REDUO 345V'         260         -0.0021         -0.2827         96           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.2847 (OKE         SEMINOLE 345KV         496         -0.0021         -0.2827         95           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.2847 (OKE         SEMINOLE 345KV         120         -0.0023         -0.2827         95           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.2847 (OKE         SMITH COCEN 136KV         212         -0.0024         -0.2273         96           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.2847 (WERE         CITY OF MCPHERSON 115KV         259         -0.2847 (WERE         CITY OF MCPHERSON 115KV         259         -0.2847 (WERE         CITY OF MCPHERSON 115KV         252         -0.2647 (WERE         CITY OF MCPHERSON 115KV         252         -0.2647 (WERE         CITY OF MCPHERSON 115KV         30.4867         -0.2224 (WERE         LEFFREY ENERGY CENTER 345KV         40         0.0168         -24254         100           WERE         HUTCHINSON ENERGY CENTER 15KV         30.4867         -0.22234 (WERE         LEFFREY ENERGY CENTER 345KV         40         0.0168         -24256	WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	OKGE	'MUSTANG 69KV'	106	-0.00254	-0.28203 90
WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.2827 (OGE         REDUO 345V'         260         -0.0021         -0.2827         96           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.2847 (OKE         SEMINOLE 345KV         496         -0.0021         -0.2827         95           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.2847 (OKE         SEMINOLE 345KV         120         -0.0023         -0.2827         95           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.2847 (OKE         SMITH COCEN 136KV         212         -0.0024         -0.2273         96           WERE         BPU - CITY OF MCPHERSON 115KV         259         -0.2847 (WERE         CITY OF MCPHERSON 115KV         259         -0.2847 (WERE         CITY OF MCPHERSON 115KV         259         -0.2847 (WERE         CITY OF MCPHERSON 115KV         252         -0.2647 (WERE         CITY OF MCPHERSON 115KV         252         -0.2647 (WERE         CITY OF MCPHERSON 115KV         30.4867         -0.2224 (WERE         LEFFREY ENERGY CENTER 345KV         40         0.0168         -24254         100           WERE         HUTCHINSON ENERGY CENTER 15KV         30.4867         -0.22234 (WERE         LEFFREY ENERGY CENTER 345KV         40         0.0168         -24256	WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	OKGE	'ONE OAK 345KV'	300	-0.00231	-0.28226 90
WERE         BPU - CITY OF MCPHERSON 115KV         2569         0.28477 OKGE         SEMMOLE 138KV         4485.0313         0.00221         0.28271         0.9281           WERE         BPU - CITY OF MCPHERSON 115KV         259         0.28457 OKGE         SEMMOLE 345KV         996         0.00226         0.28201         992           WERE         BPU - CITY OF MCPHERSON 115KV         259         0.28457 AKGE         SMITH COCEN 138KV         31938005         0.00224         0.28214         0.2821         992           WERE         BPU - CITY OF MCPHERSON 115KV         259         0.28457 OKGE         TINKER 50 138KV         31938005         0.00244         0.28213         992           WERE         BPU - CITY OF MCPHERSON 115KV         259         0.28457 UKER         CLIFTON 115KV         304.8075         0.22234 VKERE         CLIFTON 115KV         940         0.0196         0.24243         1004           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         0.22234 VKERE         UEFFREY VENERGY CENTER 346KV         940         0.0196         0.24243         1004           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         0.22234 VKERE         UEFFREY VENERGY CENTER 346KV         470         0.01387         0.2361         100           WERE <td>WERE</td> <td>'BPU - CITY OF MCPHERSON 115KV'</td> <td>259</td> <td></td> <td></td> <td></td> <td>250</td> <td></td> <td>-0.28247 90</td>	WERE	'BPU - CITY OF MCPHERSON 115KV'	259				250		-0.28247 90
WERE         IPU-CITYO FMCPHERSON 115KV         2569         0.2847/OKGE         SEMINOLE 345KV         996         0.00226         0.38221         959           WERE         BPU-CITYO FMCPHERSON 115KV         2569         0.2847/OKGE         SMITH COCERN 138KV         227         0.00468         0.27890         959           WERE         BPU-CITYO FMCPHERSON 115KV         2569         0.2847/OKGE         TMKKER 56 (538KV         2319805         0.00244         0.20236         0.28213         959           WERE         BPU-CITYO FMCPHERSON 115KV         2569         0.2847/WERE         TS15115KV         5348904         0.00384         0.27477         952           WERE         BPU-CITY OF MCPHERSON 115KV         259         0.2847/WERE         KKNUL 1315 115KV         75         0.03187         0.2326         1000           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6876         0.22234/WERE         JEFFREY ENERGY CENTER 345KV         940         0.0168         0.24243         1004           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6876         0.22234/WERE         JEFFREY ENERGY CENTER 345KV         940         0.01387         0.2367         1007           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6876         0.22234/WERE <t< td=""><td>WERE</td><td>'BPU - CITY OF MCPHERSON 115KV'</td><td></td><td></td><td></td><td></td><td>485.0313</td><td></td><td></td></t<>	WERE	'BPU - CITY OF MCPHERSON 115KV'					485.0313		
WERE         IPU - CITY OF MCPHERSON 115KV         2269         0.28467 (MGE         SMITH COGEN 138KV         120         -0.00233         -0.2024         95           WERE         BPU - CITY OF MCPHERSON 115KV         2269         0.28467 (MGE         TINKER 5G 138KV         31.98805         0.00244         0.22813         95           WERE         BPU - CITY OF MCPHERSON 115KV         2269         0.28467 (WERE         TINKER 5G 138KV         31.98805         0.00244         0.22813         95           WERE         BPU - CITY OF MCPHERSON 115KV         2269         0.22484 (WERE         VERE         1.55KV         940         0.0136         0.22434         100           WERE         HUTCHINSON ENERGY CENTER 69KV         366 75         0.22284         WERE         UEFREY ENERGY CENTER 345KV         940         0.0136         0.24234         100           WERE         HUTCHINSON ENERGY CENTER 15KV         304 6875         0.22284         WERE         UEFREY ENERGY CENTER 230KV         470         0.01387         0.23861         100           WERE         HUTCHINSON ENERGY CENTER 15KV         304 6875         0.22284         WERE         LANGY CENTER 230KV         470         0.01387         0.22861         100         0.00374         0.22861         101         0.02861									
WERE         IBPU - GITY OF MCPHERSON 115KV         258         0.24847 / AEPW         SOUTHWESTERN STATION 138KV         257         -0.0468         -0.27989         95           WERE         IBPU - GITY OF MCPHERSON 115KV         259         0.24847 (VGE         T.VKER KS G 138KV         319.9906         -0.02447         92           WERE         IBPU - GITY OF MCPHERSON 115KV         259         0.24847 (WERE         T.SKV         58.49084         -0.0088         -0.24274         92           WERE         IHUTCHINSON ENERGY CENTER 115KV         304.8875         -0.22234 (WERE         JEFREY ENERGY CENTER 345KV         940         0.0196         -0.24254         104           WERE         IHUTCHINSON ENERGY CENTER 115KV         304.8875         -0.22234 (WERE         JEFREY ENERGY CENTER 345KV         940         0.0196         -0.24254         104           WERE         IHUTCHINSON ENERGY CENTER 115KV         304.8875         -0.22234 (WERE         JEFREY ENERGY CENTER 336KV         470         0.01387         -0.23861         107           WERE         HUTCHINSON ENERGY CENTER 115KV         304.8875         -0.22244 (WERE         LAWRENCE ENERGY CENTER 230KV         310         0.00627         -0.22921         110           WERE         HUTCHINSON ENERGY CENTER 115KV         304.8875         -0									
WERE         BPU - CITY OF MCPHERSON 115KV         258         -0.28457 (MEGE         TINKER 56, 138KV         31.98005         -0.0028         -0.22817         928           WERE         BPU - CITY OF MCPHERSON 115KV         258         -0.28457 (WERE         KNOLL 3115 115KV         75         -0.0389         -0.2777         928           WERE         HUTCHINSON ENERGY CENTER 15KV         304.6875         -0.22243 (WERE UFFREY ENERGY CENTER 345KV         940         0.0196         -0.24243         104           WERE         HUTCHINSON ENERGY CENTER 69KV         6.7         -0.22283 (WERE UFFREY ENERGY CENTER 345KV         940         0.0187         -0.23681         1007           WERE         HUTCHINSON ENERGY CENTER 69KV         6.67         -0.22283 (WERE UFFREY ENERGY CENTER 230KV         470         0.01387         -0.2367         1010           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22244 (WERE UANR 345KV         346         340         0.000627         -0.22308         110           WERE         HUTCHINSON ENERGY CENTER 15KV         304.6875         -0.22244 (WERE UANR 240KCP ENERGY CENTER 230KV         310         0.00734         -0.23028         110           WERE         HUTCHINSON ENERGY CENTER 15KV         304.6875         -0.22244 (WERE UANR 240KCP ENERGY CENTER 230KV									
WERE         'BPU - CTY OF MCPHERSON 115KV'         259         -0.28457 WERE         CLIFTON 115KV'         'S54.0044         -0.0098         -0.27477         'S5         -0.03197         -0.2266         100           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.0875         -0.22249 WERE         UEFREY ENERGY CENTER 445KV         '940         0.0196         -0.24254         100           WERE         HUTCHINSON ENERGY CENTER 15KV'         304.0875         -0.22281 WERE         UEFREY ENERGY CENTER 230KV'         '470         0.01387         -0.22681         100           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22281 WERE         UEFREY ENERGY CENTER 230KV'         '470         0.01387         -0.23671         1070           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22244 WERE         LANG 7 345 345KV'         '330         0.00627         -0.23681         100           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22244 WERE         LANG 7 345 345KV'         '310         0.00734         -0.23028         1100           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.2224 WERE         LANG 7 345 345KV'         '310         0.00744         -0.23028         1100		BPU - CITY OF MCPHERSON 115KV		-0.28457	OKGE	TINKER 5G 138KV	31 90805		
WERE         IPU - CITY OF MCPHERSON 115KV         2.928457 [WERE         KNOLL 3 115 115KV         75         0.03167         -0.2285         100           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22284 [WERE         JEFREY ENERGY CENTER 345KV         940         0.0196         -0.24254         100           WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.22284 [WERE         JEFREY ENERGY CENTER 345KV         400         0.01387         -0.23861         100           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22234 [WERE         JEFREY ENERGY CENTER 230KV         470         0.01387         -0.23861         100           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22234 [WERE         LATAN 345KV         310         0.00734         -0.23861         110           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22234 [WERE         LANG 7.345 345KV         310         0.00734         -0.23861         110           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22238 [WERE         LANG 7.345 345KV         310         0.00624         -0.2238         110           WERE         HUTCHINSON ENERGY CENTER 695KV         67         -0.22238 [WERE						CLIETON 115KV			
WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22284 [WERE         UFFREY ENERGY CENTER 345KV         940         0.0196         -0.24243         104           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22283 [WERE         JEFREY ENERGY CENTER 230KV         470         0.01387         -0.2367         100           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22283 [WERE         JEFREY ENERGY CENTER 230KV         470         0.01387         -0.2367         100           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22284 [WERE         LANG 7.345 345KV         310         0.00734         -0.2368         110           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22284 [WERE         LAWRENCE ENERGY CENTER 230KV         251.345         0.00622         -0.2286         110           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22284 [WERE         LAWRENCE ENERGY CENTER 115KV         306.600         -0.2291         110           WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.22283 [WERE         LAWRENCE ENERGY CENTER 105KV         306         0.00627         -0.2291         110           WERE         HUTCHINSON ENERGY CENTER 69KV         6									
WERE         HUTCHINSON ENERGY CENTER 98KV         67         -0.22283 [WERE         JEFREY ENERGY CENTER 345KV         940         0.0136         -0.2483         100           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22284 [WERE         JEFREY ENERGY CENTER 230KV         470         0.01387         -0.23681         100           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22284 [WERE         JEFREY ENERGY CENTER 230KV         470         0.01387         -0.22821         110           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22284 [WERE         LANG 7.345 345KV         310         0.00734         -0.22881         110           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22284 [WERE         LANG 7.345 345KV         310         0.00734         -0.22881         110           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22283 [WERE         LANG 7.345 345KV         310         0.00734         -0.2291         1110           WERE         HUTCHINSON ENERGY CENTER 68KV         67         -0.22283 [WERE         LANG 7.345 345KV         310         0.00734         -0.2291         1110           WERE         HUTCHINSON ENERGY CENTER 68KV         67         -0		HUTCHINSON ENERGY CENTER 446/0/							
WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22284 [WERE         JEFREY ENERGY CENTER 230KV'         470         0.01387         -0.2387         107           WERE         HUTCHINSON ENERGY CENTER 15KV'         304.6875         -0.22284 [WERE         JEFREY ENERGY CENTER 230KV'         470         0.01387         -0.2387         107           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22284 [WERE         LANG 7.345         336KV'         310         0.00734         -0.23028         1110           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22284 [WERE         LANG 7.345         305KV'         251.3459         0.00682         -0.2280         1110           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22284 [WERE         LANG 7.345         305KV'         306         0.00627         -0.2291         1110           WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.22283 [WERE         LANG 7.345         345KV'         306         0.00627         -0.2291         1100           WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.22283 [WERE         LANG 7.345         345KV'         306         0.00621         -0.2291         1110 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>									
WERE         HUTCHINSON ENERGY CENTER 98KV         67         -0.22283 [WERE         JEFREY ENERGY CENTER 230KV         470         0.01387         -0.2387         100           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22284 [KACP         111         11		ULITCHINGON ENERGY CENTER 14EV/		-0.22283	WERE	JEFFREI ENERGI GENTER 340NV			
WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [KRCP         IATAN 345KV         396         0.00627         -0.22301         110           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [WERE         LANG 7.345 345KV'         301         0.00734         -0.23026         1110           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22284 [WERE         LANG 7.435 345KV'         251.3459         0.00692         -0.2296         110           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22284 [WERE         LANG 7.435 345KV'         306         0.00627         -0.2291         110           WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.22283 [WERE         LANG 7.345 345KV'         306         0.00627         -0.2291         110           WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.22283 [WERE         LANG 7.345 345KV'         306         0.00627         -0.2291         110           WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.22283 [WERE         LANG 7.345 345KV'         306         0.00621         -0.2291         110           WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.22283 [WERE <tl< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tl<>									
WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22284 WERE         'LANG         7.345         345KV'         310         0.00734         -0.23086         110           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22284 WERE         LAWRENCE ENERGY CENTER 230KV'         251.3459         0.00682         -0.22986         110           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22284 WERE         TECUMSEH ENERGY CENTER 135KV'         306         0.00627         -0.2291         1110           WERE         HUTCHINSON ENERGY CENTER 69KV'         67         -0.22283 WERE         LANG         7.345         345KV'         310         0.00724         -0.2291         1110           WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.22283 WERE         LANG         7.345         345KV'         310         0.00734         -0.22975         1110           WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.22283 WERE         LANG         7.345         345KV'         300         0.00621         -0.22976         1111           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22284 MERE         TECUMSEH ENERGY CENTER 115KV         306.6875         -0.22294 MERE         <									
WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22284 WERE         LAWRENCE ENERGY CENTER 230KV         251.3459         0.00682         -0.2289         110           WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.22284 WERE         TECUMSEN ENERGY CENTER 115KV         306.6875         -0.22283         WERE         1110         306.00627         -0.2291         110           WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.22283 WERE         LANG 7.345 36KV         310         0.00734         -0.22917         110           WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.22283 WERE         LAWRENCE ENERGY CENTER 306KV         306.0062         -0.22917         110           WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.22283 WERE         TECUMSEN ENERGY CENTER 136KV         306.0062         -0.2295         1110           WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.22283 WERE         TECUMSEN ENERGY CENTER 115KV         306.8675         -0.22284         MERE         4016         100.00621         -0.2281         1111           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22284         MERE         1111         300.0021         -0.22715         1111 <t< td=""><td></td><td>HUTCHINSON ENERGY CENTER 115KV</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		HUTCHINSON ENERGY CENTER 115KV							
WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22284 [WERE         TECUMSEH ENERGY CENTER 115KV         108         0.00606         -0.2291         110           WERE         HUTCHINSON ENERGY CENTER 98KV         67         -0.22283 [WERE         LANG. 7.345         345KV         336         0.00627         -0.2291         110           WERE         HUTCHINSON ENERGY CENTER 98KV         67         -0.22283 [WERE         LANG. 7.345         345KV         310         0.00734         -0.2291         110           WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.22283 [WERE         LANG. 7.345         345KV         251.3459         0.00621         -0.22291         1110           WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.22284 [WERE         TECUMSEH ENERGY CENTER 115KV         306.4875         -0.22294 [MIPU         ARES         1114V         300         0.00421         -0.22291         1111           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 [MIPU         REE NUNCOL         169.865         0.00421         -0.22291         1111           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 [KACP         MUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 [KACP									
WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.22283 [KRCP         1ATAN 345KV         396         0.00627         -0.2291         110           WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.22283 [WERE         LANG 7.345 345KV         310         0.00734         -0.22017         110           WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.22283 [WERE         LANG 7.345 345KV         251.3459         0.00692         -0.22081           WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.22283 [WERE         LANGES 161KV         300         0.00421         -0.22215         111           WERE         HUTCHINSON ENERGY CENTER 115KV         304.8675         -0.22294 [MIPU         ARES 161KV         308         0.00501         -0.22715         1111           WERE         HUTCHINSON ENERGY CENTER 115KV         304.8675         -0.22294 [MIPU         GREEWNOOD 161KV         308         0.00509         -0.22714         1111           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 [MIPU         GREEWNOOD 161KV         176         0.00424         -0.2278         1111           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 [KACP         HAWTHORN 161KV         769 </td <td></td> <td>HUTCHINSON ENERGY CENTER 115KV</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		HUTCHINSON ENERGY CENTER 115KV							
WERE         HUTCHINSON ENERGY CENTER 98KV         67         -0.22283 WERE         LANG. 7.345 345KV         310         0.00734         -0.2307         110           WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.22283 WERE         LANG. 7.345 345KV         251.3459         0.00682         -0.22075         110           WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.22283 WERE         TECUMSEH ENERGY CENTER 135KV         106         0.00666         -0.2289         110           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22284 MIPU         ARES 161KV         300         0.00421         -0.22215         111           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22284 MIPU         RAIES 161KV         308         0.00509         -0.22291         111           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 KACP         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 KACP         HAWTHORN 161KV         77         0.00424         -0.2272         111           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 KACP         NEARMAN 161KV         77         0.00484         -0.2276         111           WERE         HUTCHINSO	WERE					TECUMSEH ENERGY CENTER 115KV			
WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.22283 WERE         LAWRENCE ENERGY CENTER 136KV         26.2295         110           WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.22283 WERE         TECUMSEN ENERGY CENTER 115KV         300         0.00421         -0.2288         110           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 KACP         BULL CREEK 161KV         300         0.00421         -0.22715         111           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 KACP         BULL CREEK 161KV         308         0.0042         -0.22714         1111           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 KACP         HAVTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 KACP         HAVTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 KACP         HAVTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 KACP         MEANAN 20KV         77         0.00484         -0.22778         1111           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 KACP         NEARMAN 10KV         700         0.00484         -0.22778         1111           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 KACP <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
WERE         HUTCHINSON ENERGY CENTER 98KV         67         -0.22283 [WERE         TECUMSEH ENERGY CENTER 115KV         108         0.00606         -0.2283         111           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 [MPU]         ARES 161KV         300         0.00421         -0.22715         1111           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 [MPU]         GREENWOOD 161KV         308         0.00509         -0.22714         1111           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 [MACP         GREENWOOD 161KV         169.880         0.0042         -0.22714         1111           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 [MACP         HAWTHORN 161KV         779         0.00444         -0.22778         1111           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 [KACP         NEARMAN 20KV         77         0.00444         -0.22778         1111           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 [KACP         NACA COMBUSTION TURBINES 161KV         63.0542         0.0043         -0.22778         1111           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875	WERE	'HUTCHINSON ENERGY CENTER 69KV'				'LANG 7 345 345KV'	310		
WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [KACP         BULL CREEK 151KV'         300         0.00421         -0.22715         111           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [KACP         BULL CREEK 161KV'         308         0.0059         -0.22703         1111           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [KACP         HAWTHORN 161KV'         169.885         0.0042         -0.22714         1111           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [KACP         HAWTHORN 161KV'         769         0.0042         -0.22778         1111           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [KACP         NEARMAN 161KV'         777         0.00484         -0.22778         1111           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [KACP         NEARMAN 161KV'         700         0.00484         -0.22774         1111           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [KACP         YOUNDARO 66KV'         135.2048         0.00491         -0.22774         1111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875	WERE					'LAWRENCE ENERGY CENTER 230KV'	251.3459	0.00692	
WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [KACP         BULL CREEK 151KV'         300         0.00421         -0.22715         111           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [KACP         BULL CREEK 161KV'         308         0.0059         -0.22703         1111           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [KACP         HAWTHORN 161KV'         169.885         0.0042         -0.22714         1111           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [KACP         HAWTHORN 161KV'         769         0.0042         -0.22778         1111           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [KACP         NEARMAN 161KV'         777         0.00484         -0.22778         1111           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [KACP         NEARMAN 161KV'         700         0.00484         -0.22774         1111           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [KACP         YOUNDARO 66KV'         135.2048         0.00491         -0.22774         1111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875	WERE								
WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 [ARCP         BULL CREEK 161KV         308         0.00509         -0.22801         1111           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 [ARCP         108 (EREWNCOD 161KV         169.888         0.0042         -0.22714         1111           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 [ARCP         HAWTHORN 161KV         769         0.00428         -0.22778         1111           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 [ARCY         NEARMAN 20KV         77         0.0044         -0.22778         1111           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 [ARCY         NEARMAN 20KV         220         0.00464         -0.22778         1111           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 [ARCY         NEARMAN 20KV         230         0.00464         -0.22774         1111           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 [ARCY         QUINDARO 161KV         138.2048         0.00481         -0.22775         1111           WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294	WERE	'HUTCHINSON ENERGY CENTER 115KV'		-0.22294	MIPU	'ARIES 161KV'			
WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22284 [MPU         GREENWOOD 161KV'         169.885         0.042         -0.2274         1111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22284 [KACP         NARMAN 161KV'         769         0.0042         -0.22714         1111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [KACP         NEARMAN 161KV'         77         0.00484         -0.22778         1111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [KACP         NEARMAN 20KV'         220         0.00484         -0.22774         1111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [KACP         NEARMAN 20KV'         63.0542         0.00434         -0.22774         1111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [KACP'         YOUNDARO 66KV'         135.2048         0.00481         -0.22774         1111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [KACP'         YOUNDARO 66KV'         136.2048         0.00481         -0.22774         1111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875	WERE								
WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 (AACP         'HAWTHORN 161KV'         769         0.00428         -0.22728         1111           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 (AACY         NEARMAN 161KV'         77         0.00428         -0.22778         1111           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 (AACY         NEARMAN 20KV'         220         0.00484         -0.22778         1111           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 (AACY         NEARMAN 20KV'         63.0542         0.00434         -0.22774         1111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 (KACY         QUINDARO 161KV'         135.2048         0.00481         -0.22776         1111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 (KACY         QUINDARO 69KV         140         0.00481         -0.22776         1111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 (MPU         SIBLEY 161KV         23.6828         0.00366         -0.2269         1111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875	WERE								
WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 (ACY         NEARMAN 161KV'         77         0.00444         -0.2278         111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 (ACY         NEARMAN 161KV'         220         0.00444         -0.2278         111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 (ACY         PAOLA COMBUSTION TURBINES 161KV'         63.0542         0.00434         -0.2274         111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 (ACY         QUINDARO 161KV'         135.2048         0.00431         -0.2274         111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 (ACY         QUINDARO 68KV'         140         0.0048         -0.22774         111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 (MIPU         SIBLEY 56KV'         231.6823         0.0039         -0.2289         111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 (MIPU         SIBLEY 56KV'         231.6823         0.00396         -0.22897         1111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875	WERE	'HUTCHINSON ENERGY CENTER 115KV'		-0.22294	KACP	HAWTHORN 161KV			
WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 (AACY         NEARMAN 20KV'         220         0.00484         -0.22778         111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 (AACY         PADAL COMBUSTION TURBINES 161KV'         63.0542         0.00484         -0.22778         1111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 (AACY         YOUNDARO 161KV'         135.2048         0.00481         -0.22774         1111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 (AACY         YOUNDARO 68KV'         140         0.00481         -0.22774         1111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 (MACY         YOUNDARO 68KV'         231.6823         0.00396         -0.2269         111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 (MIPU         SIBLEY 161KV'         231.6823         0.00396         -0.2269         111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 (MIPU         SIBLEY 161KV'         45.99999         0.00403         -0.22761         1111           WERE         HUTCHINSON ENERGY CENTER 115KV' <td< td=""><td></td><td>HUTCHINSON ENERGY CENTER 115KV</td><td></td><td></td><td></td><td>NEARMAN 161KV</td><td></td><td></td><td></td></td<>		HUTCHINSON ENERGY CENTER 115KV				NEARMAN 161KV			
WERE         HUTCHINSON ENERGY CENTER 115KV         304.6875         -0.22294 [AACP         PAOLA COMBUSTION TURBINES 161KV'         63.0542         0.0043         -0.22774         1111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [AACY         QUINDARO 161KV'         135.2048         0.0043         -0.22774         1111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [AACY         QUINDARO 66KV'         140         0.0048         -0.22774         1111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [AACY         QUINDARO 66KV'         140         0.0048         -0.22774         1111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [MIPU         SIBLEY 161KV'         231.6823         0.00396         -0.2269         1111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [MIPU         SIBLEY 96VV'         45.9999         0.00431         -0.22741         1111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [MIPU         SOUTH HARPER 161KV'         315         0.00447         -0.22741         1111           WERE         HUTCHINSON ENERGY CENTER 668V'         67		HUTCHINSON ENERGY CENTER 115KV		-0 22204	KACY				
WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 (ACY         'QUINDARO         161KV'         135.2048         0.00481         -0.22774         1111           WERE         HUTCHINSON ENERGY CENTER         115KV'         304.6875         -0.22294 (ACY         'QUINDARO         06KV'         140         0.0048         -0.22774         1111           WERE         HUTCHINSON ENERGY CENTER         115KV'         304.6875         -0.22294 (MIPU         SIBLEY 161KV'         231.6823         0.00396         -0.2269         111           WERE         HUTCHINSON ENERGY CENTER         115KV'         304.6875         -0.22294 (MIPU         SIBLEY 69KV'         45.99999         0.00403         -0.2269         111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 (MIPU         SIBLEY 69KV'         45.99999         0.00403         -0.2269         111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22234 (MIPU         SIBLEY 69KV'         45.99999         0.00403         -0.22741         1111           WERE         HUTCHINSON ENERGY CENTER 69KV'         67         -0.22283 (MIPU         XIRES         161KV'         300         0.00403         -0.22741         1111		HUTCHINSON ENERGY CENTER 115KV		-0.22204	KACP	PAOLA COMBUSTION TURBINES 161KV			-0.22724 111
WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [ARCY         'QUINDARO 69KV'         140         0.0048         -0.22774         111           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [AIPU         SIBLEY 161KV'         231.6823         0.00396         -0.2269         111           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [MIPU         SIBLEY 66KV'         231.6823         0.00396         -0.22697         1111           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [MIPU         'SIBLEY 66KV'         45.9999         0.0043         -0.22697         1111           WERE         'HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [MIPU         'SOUTH HARPER 161KV'         315         0.00447         -0.22741         1111           WERE         'HUTCHINSON ENERGY CENTER 69KV'         67         -0.22283 [MIPU         SOUTH HARPER 161KV'         300         0.00447         -0.22741         1111           WERE         'HUTCHINSON ENERGY CENTER 69KV'         67         -0.22283 [MIPU         SOUTH HARPER 161KV'         300         0.00447         -0.22741         1111									
WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [MIPU         SIBLEY 56KV'         231.6823         0.00396         -0.2269         111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [MIPU         SIBLEY 56KV'         45.9999         0.0043         -0.22697         111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22294 [MIPU         SOUTH HARPER 161KV'         315         0.00447         -0.22711         111           WERE         HUTCHINSON ENERGY CENTER 68KV'         67         -0.22283 [MIPU         SOUTH HARPER 161KV'         300         0.00421         -0.22741         111           WERE         HUTCHINSON ENERGY CENTER 68KV'         67         -0.22283 [MIPU         XRLES 161KV'         300         0.00421         -0.22741         111           WERE         HUTCHINSON ENERGY CENTER 69KV'         67         -0.22283 [MIPU         XRLES 161KV'         300         0.00421         -0.22741         111									
WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.2224 MIPU         'SIBLEY 69KV'         45.99999         0.00403         -0.22697         111           WERE         HUTCHINSON ENERGY CENTER 115KV'         304.6875         -0.22244 MIPU         'SIBLEY 69KV'         315         0.00447         -0.22697         111           WERE         HUTCHINSON ENERGY CENTER 15KV'         304.6875         -0.22283 MIPU         'SOUTH HARPER 161KV'         315         0.00447         -0.22741         111           WERE         HUTCHINSON ENERGY CENTER 69KV'         67         -0.22283 MIPU         'ARIES 161KV'         300         0.00427         -0.22704         111           WERE         HUTCHINSON ENERGY CENTER 69KV'         67         -0.22283 KACP         'BUL CREEK 161KV'         308         0.00509         -0.22792         111									
WERE         [HUTCHINSON ENERGY CENTER 115KV]         304.6875         -0.22244[MIPU         [SOUTH HARPER 161KV]         315         0.0047         -0.22741         111           WERE         [HUTCHINSON ENERGY CENTER 69KV]         67         -0.22283 [MIPU         ARIES 161KV]         300         0.0047         -0.22741         111           WERE         [HUTCHINSON ENERGY CENTER 69KV]         67         -0.22283 [MIPU         ARIES 161KV]         300         0.0047         -0.22741         111           WERE         [HUTCHINSON ENERGY CENTER 69KV]         67         -0.22283 [MACP]         BULL CREEK 161KV]         300         0.0059         -0.22792         111									
WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.22283 [MIPU         ARIES 161KV         300         0.00421         -0.22704         111           WERE         'HUTCHINSON ENERGY CENTER 69KV'         67         -0.22283 [KACP         'BULL CREEK 161KV'         308         0.00509         -0.22792         111		INTERNATION ENERGY CENTER 115KV		-0.22294	MIPU				
WERE 'HUTCHINSON ENERGY CENTER 69KV' 67 -0.22283 KACP BULL CREEK 161KV' 308 0.00509 -0.22792 111		HUTCHINSON ENERGY CENTER 115KV							
WERE  'HUTCHINSON ENERGY CENTER 69KV' 67 -0.22283 KACP  'BULL CREEK 161KV' 308 0.00509 -0.22792 111									
	WERE	'HUTCHINSON ENERGY CENTER 69KV'				BULL CREEK 161KV	308	0.00509	-0.22792 111

 Image: WERE
 HUTCHINSON ENERGY CENTER 69KV
 67
 -0.22283[KACP
 BULL CREEX 161KV

 Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.
 Factor = Source GSF - Sink GSF
 Redispatch Amount = Relief Amount / Factor

Limiting Facility: Direction: Line Outage:	EXIDE JUNCTION - SUMMIT 115KV CKT 1 EXIDE JUNCTION - SUMMIT 115KV CKT 1 To-From EAST MCPHERSON - SUMMIT 230KV CKT 1 57368573811568725687314208WP								
	Starting 2008 12/1 - 4/1 Until EOC								
Season Flowgate Identified:									
oodoon nongato idontatioa.	2000 Million Four	Aggregate Relief							
Reservation	Relief Amount	Amount							
1161506									
1161997	2.1	4.9							
				Sink					Aggregate
		Maximum		Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area		Decrement(MW)	GSF	Factor	Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	WERE	'SMOKEY HILLS 34KV'	51	0.06205	-0.34662	. 14
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01386	-0.29843	16
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	WERE	'JEFFREY ENERGY CENTER 345KV'	909.0583	0.01959	-0.30416	16
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	AEPW	'AEP-CT0113.8 161KV'	85	0.00001	-0.28458	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	AEPW	'AEP-CT0213.8 161KV'	85	0.00001	-0.28458	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	AEPW	'AEP-CT0313.8 161KV'	85	0.00001	-0.28458	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	AEPW	'AEP-CT0413.8 161KV'	65	0.00001	-0.28458	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	OKGE	'AES 161KV'	320	-0.0005	-0.28407	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	EMDE	'ASBURY 161KV'	191	0.00112	-0.28569	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	WERE	'CHANUTE 69KV'	34.903	0.00118	-0.28575	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	WERE	'CITY OF AUGUSTA 69KV'	15	0.00027	-0.28484	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	WERE	'CITY OF BURLINGTON 69KV'	20.393	0.00214	-0.28671	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	WERE	'CITY OF IOLA 69KV'	19.902	0.0014	-0.28597	17

WEDE		050	0.00457	WEDE		0.70.4000	0.00000	0.00074	17
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.28457		CITY OF WINFIELD 69KV	8.724999		0.28371	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		'CLR_1 .575 34KV'	61.9956		0.28545	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		'CLR_2 .575 34KV'	100		0.28545	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.61		0.28671	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		COGENTRIX 345KV	200		0.28384	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		'COMANCHE 138KV'	160		0.27973	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		COMANCHE 69KV	63		-0.2798	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		'EASTMAN 138KV'	355		0.28365	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		'ELK RIVER 345KV'	150		0.28545	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		'FITZHUGH 161KV'	109		0.28418	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		'FLINT CREEK 161KV'	400		-0.2846	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		'HAWTHORN 161KV'	455		0.28885	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		'IATAN 345KV'	396		0.29084	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		'KNOXLEE 138KV'	42		0.28366	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		'L&D13 69KV'	11		0.28413	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	KACP	'LACYGNE UNIT 345KV'	958	0.00378 -	0.28835	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	MIPU	'LAKE ROAD 161KV'	35	0.00362 -	0.28819	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	MIPU	'LAKE ROAD 34KV'	92	0.00362 -	0.28819	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		'LANG 7 345 345KV'	380		0.29191	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		WERE	'LAWRENCE ENERGY CENTER 230KV'	144.9592		0.29149	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	AEPW	'LEBROCK 345KV'	315	-0.00092 -	0.28365	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	KACP	'MARSHALL 161KV'	15	0.00234 -	0.28691	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	OKGE	'MCCLAIN 138KV'	478	-0.00256 -	0.28201	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		'MONTROSE 161KV'	322.8412		0.28829	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	OKGE	'MUSKOGEE 345KV'	1516	-0.00076 -	0.28381	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		'NEARMAN 161KV'	18.16388		0.28941	17
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.28457		'NEARMAN 20KV'	220		0.28941	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		'NORTHEASTERN STATION 138KV'	112		0.28428	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		'NORTHEASTERN STATION 345KV'	600		0.28442	17
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.28457		OEC 345KV	219		0.28402	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		'OMPA-KAW 69KV'	19.68717		0.28303	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		OMPA-PONCA CITY 69KV'	19.62857		0.28303	17
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.28457		OZARK BEACH 161KV	19.02837		0.28523	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		PIRKEY GENERATION 138KV	450		0.28365	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		QUINDARO 161KV	116.9295		0.28939	17
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.28457		QUINDARO 69KV	72		0.28939	17
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.28457		'REDBUD 345KV'	200		0.28248	17
WERE	BPU - CITY OF MCPHERSON 115KV' BPU - CITY OF MCPHERSON 115KV'	259 259	-0.28457 -0.28457		'RIVERSIDE STATION 138KV' 'RIVERTON 161KV'	6.00008	-0.00072 -	0.28385	17 17
WERE	BPU - CITY OF MCPHERSON 115KV BPU - CITY OF MCPHERSON 115KV		-0.28457		RIVERTON 161KV	38 44.80504			17
		259						0.28537	
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.28457		SEMINOLE 138KV	453.8043		0.28217	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		'SEMINOLE 345KV'	590.52		0.28222	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		SIBLEY 161KV	231.2235		0.28853	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		'SIBLEY 69KV'	45.99999		-0.2886	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		'SMITH COGEN 138KV'	120		0.28206	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		'SOONER 138KV'	505		0.28286	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		'SOONER 345KV'	513		-0.2827	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		'SOUTH HARPER 161KV'	176.4037		0.28904	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		'SOUTHWESTERN STATION 138KV'	29		-0.2799	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		'STATE LINE 161KV'	356.7808		0.28539	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		'WACO 138KV'	17.414		0.28205	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		'WELSH 345KV'	975.0001		0.28354	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		WILKES 138KV	74.19978		0.28362	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457		WILKES 345KV	100.9279		0.28363	17
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	WERE	'SMOKEY HILLS 34KV'	51	0.06205 -	0.28498	17
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	WERE	'SMOKEY HILLS 34KV'	51	0.06205 -	0.28476	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	WERE	'KNOLL 3 115 115KV'	75		0.25263	19
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293		'JEFFREY ENERGY CENTER 345KV'	909.0583		0.24252	20
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	WERE	'JEFFREY ENERGY CENTER 345KV'	909.0583	0.01959	-0.2423	20
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293		'IATAN 345KV'	396	0.00627	-0.2292	21
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293		'JEFFREY ENERGY CENTER 230KV'	470		0.23679	21
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	WERE	'LANG 7 345 345KV'	380		0.23027	21
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	WERE	'LAWRENCE ENERGY CENTER 230KV'	144.9592	0.00692 -	0.22985	21
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	KACY	'NEARMAN 161KV'	18.16388	0.00484 -	0.22777	21
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	KACY	'NEARMAN 20KV'	220	0.00484 -	0.22777	21
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293		'QUINDARO 161KV'	116.9295		0.22775	21
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293		'QUINDARO 69KV'	72		0.22773	21
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271		'IATAN 345KV'	396		0.22898	21
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271		'JEFFREY ENERGY CENTER 230KV'	470		0.23657	21
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271		'LANG 7 345 345KV'	380		0.23005	21
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271		'LAWRENCE ENERGY CENTER 230KV'	144.9592		0.22963	21
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157		'SMOKEY HILLS 34KV'	51		0.22362	22
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	WEPL	'GRAY COUNTY WIND FARM 115KV'	60		0.22631	22
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	WEPL	'JUDSON LARGE 115KV'	24.18757		0.22632	22
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293		'AEP-CT0113.8 161KV'	85		0.22294	22
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293		'AEP-CT0213.8 161KV'	85		0.22294	22
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293		'AEP-CT0313.8 161KV'	85		0.22294	22
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293		'AEP-CT0413.8 161KV'	65		0.22294	22
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293		'AES 161KV'	320		0.22243	22
WERE	HUTCHINSON ENERGY CENTER 115KV	601	-0.22293		ASBURY 161KV	320 191		0.22243	22
WERE	HUTCHINSON ENERGY CENTER 115KV	601	-0.22293		CHANUTE 69KV	34.903		0.22411	22
WERE	HUTCHINSON ENERGY CENTER 115KV	601	-0.22293		CITY OF AUGUSTA 69KV	34.903		-0.2232	22
WERE	HUTCHINSON ENERGY CENTER 115KV	601	-0.22293		CITY OF BURLINGTON 69KV	20.393		0.22507	22
WERE	HUTCHINSON ENERGY CENTER 115KV	601	-0.22293		CITY OF IOLA 69KV	20.393		0.22507	22
WERE	HUTCHINSON ENERGY CENTER 115KV	601	-0.22293	WERE	CITY OF IOLA 69KV	8.724999	-0.00086 -	0.22433	22
WERE	HUTCHINSON ENERGY CENTER 115KV	601	-0.22293		CLR 1 .575 34KV	61.9956		0.22207	22
WERE Maximum Decrement and Ma	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	VVERE	CLR_2 .575 34KV	100	0.00088 -	0.22381	22

 Image: WERE
 Image: HutroEningSon ENERGY CENTER 115KV'
 601
 -0.2223JWERE
 Image: CLR\_2
 -575
 34KV'

 Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.
 Factor = Source GSF - Sink GSF
 Sink GSF

 Redispatch Amount = Relief Amount / Factor
 Factor = Source GSF - Sink GSF
 Sink GSF
 Sink GSF

Upgrade:	EXIDE JUNCTION - SUMMIT 115KV CKT 1							
Limiting Facility:	EXIDE JUNCTION - SUMMIT 115KV CKT 1							
Direction:	To->From							
Line Outage:	NORTHVIEW - SUMMIT 115KV CKT 1							
Flowgate:	57368573811573715738112207SH							
Date Redispatch Needed:	6/1 - 10/1 Until EOC of Upgrade							
Season Flowgate Identified:								
Č.		Aggregate Relief	]					
Reservation	Relief Amount	Amount						
116199	97	0.3 10.3	1					
			Sink					Aggregate
		Maximum	Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.35349 WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01249	-0.36598	
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.35349 OKGE	'AES 161KV'	320	-0.00027	-0.35322	
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.35349 MIPU	'ARIES 161KV'	300	0.00111	-0.3546	
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.35349 EMDE	'ASBURY 161KV'	191	0.00015		
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.35349 WERE	'CHANUTE 69KV'	46.617	0.00007	-0.35356	29
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.35349 WERE	'CITY OF AUGUSTA 69KV'	20	-0.00061	-0.35288	29
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.35349 WERE	'CITY OF BURLINGTON 69KV'	27.75	0.00029	-0.35378	
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.35349 WERE	'CITY OF ERIE 69KV'	23.258	0.00007	-0.35356	
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.35349 WERE	'CITY OF IOLA 69KV'	19.865			29
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.35349 WERE	'CITY OF WINFIELD 69KV'	16.47	-0.00079	-0.3527	
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.35349 WERE	'CLR_1 .575 34KV'	40.0044	-0.00016	-0.35333	
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.35349 WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.00029	-0.35378	
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.35349 AEPW	'COGENTRIX 345KV'	200	-0.00041	-0.35308	
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.35349 AEPW	COMANCHE 138KV	160	-0.0016	-0.35189	29

WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 AEPW	COMANCHE 69KV	63		-0.3519	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 AEPW	'EASTMAN 138KV'	355		0.35312	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 EMDE	'ELK RIVER 345KV'	150		0.35333	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 WERE	'EVANS ENERGY CENTER 138KV'	270.5388		0.35287	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 AEPW	'FLINT CREEK 161KV'	400	-0.00016 -	0.35333	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 WERE	'GILL ENERGY CENTER 138KV'	77	-0.0016 -	0.35189	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 KACP	'HAWTHORN 161KV'	661.084	0.00137 -	0.35486	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 OKGE	'HORSESHOE LAKE 138KV'	91	-0.00091 -	0.35258	29
WERE	ABILENE ENERGY CENTER 115KV	66 -0.35349 OKGE	HORSESHOE LAKE 69KV	16	-0.00089	-0.3526	29
WERE	ABILENE ENERGY CENTER 115KV	66 -0.35349 KACP	IATAN 345KV	396		0.35628	29
WERE	ABILENE ENERGY CENTER 115KV	66 -0.35349 WERE	JEFFREY ENERGY CENTER 230KV	470			29
WERE	ADILENE ENERGY CENTER 115KV		JEFFRET ENERGT CENTER 230KV		0.00382 -	0.35731	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 AEPW	'KNOXLEE 138KV'	103		0.35312	
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 AEPW	'L&D13 69KV'	11		0.35323	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 KACP	'LACYGNE UNIT 345KV'	958		0.35445	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 MIPU	'LAKE ROAD 161KV'	35	0.00151	-0.355	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 MIPU	'LAKE ROAD 34KV'	92	0.00151	-0.355	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 WERE	'LAWRENCE ENERGY CENTER 230KV'	235.4122	-0.00073 -	0.35276	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 AEPW	'LEBROCK 345KV'	515		0.35312	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 KACP	'MARSHALL 161KV'	15		0.35421	29
WERE	ABILENE ENERGY CENTER 115KV	66 -0.35349 OKGE	'MCCLAIN 138KV'	478	-0.00099	-0.3525	29
WERE	ABILENE ENERGY CENTER 115KV	66 -0.35349 KACP	MONTROSE 161KV	351.9386		0.35452	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 OKGE	'MUSKOGEE 345KV'	1516		0.35309	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 OKGE	'MUSTANG 138KV'	57.76465	-0.00097 -	0.35252	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 OKGE	'MUSTANG 69KV'	106		0.35251	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 AEPW	'NARROWS 69KV'	22		0.35302	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 KACY	'NEARMAN 161KV'	77	0.00149 -	0.35498	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 KACY	'NEARMAN 20KV'	220		0.35498	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 AEPW	'NORTHEASTERN STATION 138KV'	500		0.35321	29
WERE	ABILENE ENERGY CENTER 115KV	66 -0.35349 AEPW	NORTHEASTERN STATION 345KV	608		0.35325	29
WERE	ABILENE ENERGY CENTER 115KV	66 -0.35349 AEPW	OEC 345KV	419		0.35325	29
WERE	ABILENE ENERGY CENTER 115KV	66 -0.35349 OKGE	OMPA-KAW 69KV	19.7		0.35272	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 OKGE	'OMPA-PONCA CITY 69KV'	86.62021		0.35272	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 OKGE	'ONE OAK 345KV'	50		0.35257	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 EMDE	'OZARK BEACH 161KV'	16		0.35357	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 AEPW	'PIRKEY GENERATION 138KV'	440	-0.00037 -	0.35312	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 KACY	QUINDARO 161KV	116.9321		0.35498	29
WERE	ABILENE ENERGY CENTER 115KV	66 -0.35349 KACY	QUINDARO 69KV	89,12805		0.35498	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 OKGE	'REDBUD 345KV'	250		0.35265	29
WERE	ABILENE ENERGY CENTER 115KV	66 -0.35349 AEPW	'RIVERSIDE STATION 138KV'	482		0.35309	29
WERE	ABILENE ENERGY CENTER 115KV	66 -0.35349 AEPW	RIVERSIDE STATION 138KV	482		0.35356	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 EMDE	'RIVERTON 69KV'	44.82093		0.35356	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 OKGE	'SEMINOLE 138KV'	484.787		0.35257	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 OKGE	SEMINOLE 345KV	996	-0.00091 -	0.35258	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 MIPU	'SIBLEY 161KV'	229.0592	0.00121	-0.3547	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 MIPU	'SIBLEY 69KV'	45.99999	0.00125 -	0.35474	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 OKGE	'SMITH COGEN 138KV'	120		0.35252	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 OKGE	SOONER 138KV	505		0.35269	29
WERE	ABILENE ENERGY CENTER 115KV	66 -0.35349 OKGE	SOONER 345KV	513		0.35265	29
WERE	ABILENE ENERGY CENTER 115KV		SOUNER 345KV	269.6653			29
			SOUTH HARPER 161KV			-0.3546	29 29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 AEPW	'SOUTHWESTERN STATION 138KV'	155		0.35191	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 EMDE	'STATE LINE 161KV'	471.4843	0.00007 -	0.35356	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 WERE	TECUMSEH ENERGY CENTER 115KV	108		-0.3503	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 AEPW	'TULSA POWER STATION 138KV'	77	-0.00039	-0.3531	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 WERE	'WACO 138KV'	17.947	-0.0015 -	0.35199	29
WERE	ABILENE ENERGY CENTER 115KV	66 -0.35349 AEPW	WELSH 345KV	960		0.35308	29
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 AEPW	WILKES 138KV	139.7875	-0.00038 -	0.35311	29
WERE	ABILENE ENERGY CENTER 115KV	66 -0.35349 AEPW	WILKES 345KV	158.9639		0.35311	29
WERE			A. M. MULLERGREN GENERATOR 115KV			0.32683	
	ABILENE ENERGY CENTER 115KV	66 -0.35349 WEPL	A. IVI. IVIULLERGREIN GEINEKATUK 115KV	63			31
WERE	ABILENE ENERGY CENTER 115KV	66 -0.35349 WEPL	'GRAY COUNTY WIND FARM 115KV'	73		0.33441	31
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 WEPL	'JUDSON LARGE 115KV'	100.033		0.33442	31
WERE	'ABILENE ENERGY CENTER 115KV'	66 -0.35349 WERE	'HUTCHINSON ENERGY CENTER 115KV'	140		0.25555	40
WERE	'CLAY CENTER JUNCTION 115KV'	38.1 -0.23215 WERE	'JEFFREY ENERGY CENTER 345KV'	940		0.24464	42
WERE	'CLAY CENTER JUNCTION 115KV'	38.1 -0.23215 OKGE	'AES 161KV'	320	-0.00027 -	0.23188	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1 -0.23215 MIPU	'ARIES 161KV'	300	0.00111 -	0.23326	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1 -0.23215 EMDE	'ASBURY 161KV'	191	0.00015	-0.2323	44
WERE	CLAY CENTER JUNCTION 115KV	38.1 -0.23215 WERE	CHANUTE 69KV	46.617		0.23222	44
WERE	CLAY CENTER JUNCTION 115KV	38.1 -0.23215 WERE	CITY OF AUGUSTA 69KV	40.017		0.23154	44
WERE	CLAY CENTER JUNCTION 115KV	38.1 -0.23215 WERE	CITY OF BURLINGTON 69KV	27.75		0.23134	44
WERE	CLAY CENTER JUNCTION 115KV	38.1 -0.23215 WERE	CITY OF ERIE 69KV	23.258		0.23222	44
WERE	CLAY CENTER JUNCTION 115KV	38.1 -0.23215 WERE	'CITY OF IOLA 69KV'	19.865		0.23231	44
WERE	CLAY CENTER JUNCTION 115KV	38.1 -0.23215 WERE	'CITY OF WINFIELD 69KV'	16.47		0.23136	44
WERE	CLAY CENTER JUNCTION 115KV	38.1 -0.23215 WERE	'CLR_1 .575 34KV'	40.0044		0.23199	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1 -0.23215 WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.96		0.23244	44
WERE	CLAY CENTER JUNCTION 115KV	38.1 -0.23215 AEPW	'COGENTRIX 345KV'	200	-0.00041 -	0.23174	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1 -0.23215 AEPW	'EASTMAN 138KV'	355	-0.00037 -	0.23178	44
WERE	CLAY CENTER JUNCTION 115KV	38.1 -0.23215 EMDE	'ELK RIVER 345KV'	150		0.23199	44
WERE	CLAY CENTER JUNCTION 115KV	38.1 -0.23215 WERE	'EVANS ENERGY CENTER 138KV'	270.5388	-0.00062 -	0.23153	44
		38.1 -0.23215 AEPW	FLINT CREEK 161KV	400		0.23199	44
WERE	CLAY CENTER JUNCTION 115KV/		HAWTHORN 161KV	661.084		0.23352	44
WERE	CLAY CENTER JUNCTION 115KV				0.00137 -		
WERE WERE WERE	'CLAY CENTER JUNCTION 115KV'	38.1 -0.23215 KACP			0.00004		
WERE WERE WERE WERE	CLAY CENTER JUNCTION 115KV CLAY CENTER JUNCTION 115KV	38.1 -0.23215 KACP 38.1 -0.23215 OKGE	'HORSESHOE LAKE 138KV'	91		0.23124	44
WERE WERE WERE WERE WERE	CLAY CENTER JUNCTION 115KV' CLAY CENTER JUNCTION 115KV' CLAY CENTER JUNCTION 115KV'	38.1 -0.23215 KACP 38.1 -0.23215 OKGE 38.1 -0.23215 OKGE	'HORSESHOE LAKE 138KV' 'HORSESHOE LAKE 69KV'	91 16	-0.00089 -	0.23124 0.23126	44
WERE WERE WERE WERE WERE WERE	CLAY CENTER JUNCTION 115KV' CLAY CENTER JUNCTION 115KV' CLAY CENTER JUNCTION 115KV' CLAY CENTER JUNCTION 115KV'	38.1 -0.23215 KACP 38.1 -0.23215 OKGE 38.1 -0.23215 OKGE 38.1 -0.23215 OKGE 38.1 -0.23215 KACP	HORSESHOE LAKE 138KV' HORSESHOE LAKE 69KV' 'IATAN 345KV'	91 16 396	-0.00089 - 0.00279 -	0.23124 0.23126 0.23494	44 44
WERE WERE WERE WERE WERE WERE WERE	CLAY CENTER JUNCTION 115KV CLAY CENTER JUNCTION 115KV CLAY CENTER JUNCTION 115KV CLAY CENTER JUNCTION 115KV CLAY CENTER JUNCTION 115KV	38.1 -0.23215 KACP 38.1 -0.23215 OKGE 38.1 -0.23215 OKGE 38.1 -0.23215 KACP 38.1 -0.23215 WERE	HORSESHOE LAKE 138KV' HORSESHOE LAKE 69KV' IATAN 345KV' JEFFREY ENERGY CENTER 230KV'	91 16 396 470	-0.00089 - 0.00279 - 0.00382 -	0.23124 0.23126 0.23494 0.23597	44 44 44
WERE WERE WERE WERE WERE WERE WERE WERE	CLAY CENTER JUNCTION 115KV CLAY CENTER JUNCTION 115KV	38.1 -0.23215 KACP 38.1 -0.23215 OKGE 38.1 -0.23215 OKGE 38.1 -0.23215 KACP 38.1 -0.23215 WERE 38.1 -0.23215 WERE 38.1 -0.23215 AEPW	HORSESHOE LAKE 138KV HORSESHOE LAKE 69KV IATAN 345KV JEFREY ENERGY CENTER 230KV KNOXLEE 138KV	91 16 396 470 103	-0.00089 - 0.00279 - 0.00382 - -0.00037 -	0.23124 0.23126 0.23494 0.23597 0.23178	44 44 44 44
WERE WERE WERE WERE WERE WERE WERE	CLAY CENTER JUNCTION 115KV CLAY CENTER JUNCTION 115KV CLAY CENTER JUNCTION 115KV CLAY CENTER JUNCTION 115KV CLAY CENTER JUNCTION 115KV	38.1 -0.23215 KACP 38.1 -0.23215 OKGE 38.1 -0.23215 OKGE 38.1 -0.23215 KACP 38.1 -0.23215 WERE	HORSESHOE LAKE 138KV' HORSESHOE LAKE 69KV' IATAN 345KV' JEFFREY ENERGY CENTER 230KV'	91 16 396 470	-0.00089 - 0.00279 - 0.00382 - -0.00037 -	0.23124 0.23126 0.23494 0.23597	44 44 44 44 44 44 44
WERE WERE WERE WERE WERE WERE WERE WERE	CLAY CENTER JUNCTION 115KV CLAY CENTER JUNCTION 115KV	38.1 -0.23215 KACP 38.1 -0.23215 OKGE 38.1 -0.23215 OKGE 38.1 -0.23215 KACP 38.1 -0.23215 WERE 38.1 -0.23215 WERE 38.1 -0.23215 AEPW	HORSESHOE LAKE 138KV HORSESHOE LAKE 69KV IATAN 345KV JEFREY ENERGY CENTER 230KV KNOXLEE 138KV	91 16 396 470 103	-0.00089 - 0.00279 - 0.00382 - -0.00037 - 0.00096 -	0.23124 0.23126 0.23494 0.23597 0.23178	44 44 44 44

Redispatch Amount =	Relief Amount / Factor

Flowgate:	EXIDE JUNCTION - SUMMIT 115KV CKT 1 EXIDE JUNCTION - SUMMIT 115KV CKT 1 To-From NORTHVIEW - SUMMIT 115KV CKT 1 5736857841573715738112207SP 6/107 - 10/107 2007 Summer Peak	Aggregate Relief	I						
Reservation	Relief Amount	Amount							
1161997	0.6	0.6							
		Maximum		Sink Control		Maximum			Aggregate Redispatch
Source Control Area	Source		GSF	Area					Amount (MW)
WERE	ABILENE ENERGY CENTER 115KV	5.999996	-0.35349		'A. M. MULLERGREN GENERATOR 115KV'	63	-0.02666	-0.32683	
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35349		'AES 161KV'	320	-0.00027	-0.35322	
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35349		'ARIES 161KV'	300	0.00111	-0.3546	
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35349		'ARSENAL HILL 69KV'	15	-0.00034	-0.35315	
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35349		'ASBURY 161KV'	191	0.00015	-0.35364	
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35349		'BULL CREEK 161KV'	308	0.00167	-0.35516	
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35349		'CHANUTE 69KV'	56.723	0.00007	-0.35356	
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35349		'CITY OF AUGUSTA 69KV'	24	-0.00061	-0.35288	
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35349		CITY OF BURLINGTON 69KV	34.753	0.00029	-0.35378	
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35349		'CITY OF ERIE 69KV'	23.27	0.00007	-0.35356	
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35349	WERE	'CITY OF FREDONIA 69KV'	3.895	-0.00004	-0.35345	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35349	WERE	'CITY OF GIRARD 69KV'	4.789	0.00015	-0.35364	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35349	KACP	'CITY OF HIGGINSVILLE 69KV'	35	0.00097	-0.35446	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35349	WERE	'CITY OF IOLA 69KV'	24.267	0.00016	-0.35365	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35349	WERE	'CITY OF MULVANE 69KV'	8.288	-0.00091	-0.35258	2

WHEE         ABLEME ENERGY CENTRE 116V         6.99990         -3.559         PER         CITY OF WINFIELD SUPPORT         2.7982         -0.0073         -3.537         PER           MALEX ENERGY CENTRE 116V         5.99990         -3.538         MER         CALIFORM SUPPORT         110.97         10.97         -0.0073         -3.537         PER           MALEX ENERGY CENTRE 116V         5.99990         -3.538         MER         CALIFORM SUPPORT         110.97         -0.0071         -3.537         PER           MALEX ENERGY CENTRE 116V         5.99990         -3.534         MER         CALIFY 1150V         4.12971         -0.0116         -3.533         PER           MALEX ENERGY CENTRE 116V         5.99990         -3.534         MER         CALIFY 1150V         -5.99990         -3.534         MER         -4.12971         -0.0116         -3.533         PER           MALEX ENERGY CENTRE 116V         -5.99990         -3.534         MER         -6.99990         -0.534         PER         -6.99990         -0.5331         PE           WIEE         ABLEX ENERGY CENTRE 116V         -5.99990         -5.599         PER         -6.99990         -0.5311         -5.99990         -0.5311         -5.99990         -0.5311         -5.99990         -5.99990	WEDE	ADILENE ENERGY CENTER 445K/	5,999996	0.05040	WEDE		4,494	-0.00005	0.05044
NEW         ALLS \$1600 CPUTS 1007         COUNT STATUS         COUNT STATUS <thcount <="" status<="" td=""><td></td><td>ADILENE ENERGY CENTER 115KV</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thcount>		ADILENE ENERGY CENTER 115KV							
NEW         ALLING STREPUT CONTR         1000000         Call DP JARPO CONTR         100000         CALL DP JARPO CONTR         1000000         CALL DP JARPO CONTR         1000000         CALL DP JARPO CONTR         1000000         CALL DP JARPO CONTR         1000000000000000000000000000000000000									
Nome         Nome         Nome         Second Seco									
MADE MEDIC CONTR 100//         Second 2 State (APV)         Other Mark (APV)         ApV (APV)									
MADE         MALES PROF. CONTO 1197.         Amend of ADM (1977)         Amend ADM (1977)         Am									
MARE         Design Design Control INFX         4.9892         COMMON         Table 1         Addit 1         Addit 2           VIEG         MARE DESIGN CONTR 110V         6.9992         CASIMAL SERVICE         10000         20001									
MADE         MADE         DESCRIPTION         LADDE         LADDE <thladde< th="">         LADDE         LADDE        &lt;</thladde<>									
MARE         MARLES         DERGY CATTRA 199Y         4.9999         CATTRA 199Y         EASI 199Y <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>									
MAIL DE BUSCYCENTE I 19V         4.2005									
WHEE         MALLES BURKY CATTRE 199/*         A 20000         COUNT PACE/ON CATTRE 199/*         A 20000		'ABILENE ENERGY CENTER 115KV'				'ELK RIVER 345KV'	150		
MEDIC         MEDIC DESCRIPTION         Second ADDIAL Processing of the second according to the second accord	WERE					'EVANS ENERGY CENTER 138KV'			
MEDIC         ADDIE DREGOVENTE 116V/         Second ASSN 1200         Full CPERT VIEW         ADDIE ASSN 1200         ADDIE ASSN 1	WERE		5,999996		AEPW	'FITZHUGH 161KV'			
WHEE         MALLER DERGY CENTER 1100/**         S.0000         A.0000         A.00000         A.00000 <tha.0000< th=""></tha.0000<>	WERE				AEPW				
MEDIC         ABLE DESCYCENTER 1162/         Second Association         Operation of the association of the associatio of the association of the associatio of the associati	WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35349	WERE	'GILL ENERGY CENTER 138KV'	155	-0.0016	-0.35189 2
NUME         ABLENG REGISTICHTER 1180//         Lossed         Abalany         OPERATION OF INTY         TZZ         C.0011         Operation           NUME         ABLENG REGISTICHTER 1180//         Second         Abalany         Million	WERE	'ABILENE ENERGY CENTER 115KV'							
MERGE         ABLED ENERGY CENTR         150/**         5.0000         42.548         C         700         40.548         700         4.548         700         4.548         700         4.548         700         4.548         700         4.558         700         4.558         700         4.558         700         4.558         700         4.558         700         4.558         700         4.558         700	WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35349	MIPU		232	0.00112	-0.35461 2
MEDIC         MALES         Description         Source         Source         Description         (P) 302         Compo         Source         Source <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>769</td><td></td><td></td></th<>							769		
WHEE         MULES ENERGY CENTER 119V         5.0000         4.5340         MULES ENERGY CENTER 119V         3.00         4.0000           WEEL         ANUMES ENERGY CENTER 119V         5.0000         4.00000         4.00000         4.00000 </td <td>WERE</td> <td>'ABILENE ENERGY CENTER 115KV'</td> <td></td> <td></td> <td></td> <td>'HORSESHOE LAKE 138KV'</td> <td>691.3384</td> <td></td> <td></td>	WERE	'ABILENE ENERGY CENTER 115KV'				'HORSESHOE LAKE 138KV'	691.3384		
MARLE         MARLING         Second         Control         Control <thcontrol< th=""> <thcontrol< th=""> <thcont< td=""><td></td><td>'ABILENE ENERGY CENTER 115KV'</td><td>5.999996</td><td></td><td></td><td>'HORSESHOE LAKE 69KV'</td><td></td><td></td><td></td></thcont<></thcontrol<></thcontrol<>		'ABILENE ENERGY CENTER 115KV'	5.999996			'HORSESHOE LAKE 69KV'			
MARLE         MARLING         Second         Control         Control <thcontrol< th=""> <thcontrol< th=""> <thcont< td=""><td>WERE</td><td>'ABILENE ENERGY CENTER 115KV'</td><td>5.999996</td><td>-0.35349</td><td>WERE</td><td>'HUTCHINSON ENERGY CENTER 115KV'</td><td>205</td><td>-0.09794</td><td>-0.25555 2</td></thcont<></thcontrol<></thcontrol<>	WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35349	WERE	'HUTCHINSON ENERGY CENTER 115KV'	205	-0.09794	-0.25555 2
WEEL         MALLER EVEROV CENTER 198/*         6.5039/VEEL         CETER (LEREOV CENTER 198/*         0.0126         3.5039         C.5           WEEL         MALLER EVEROV CENTER 198/*         5.5099         4.5314/EPF         MONTE         18.000         6.5033         2.5312         2           WEEL         MALLER EVEROV CENTER 198/*         5.5999         4.5314/EPF         MONTE         18.000         4.5312         2           WEEL         MALLER EVEROV CENTER 198/*         5.5999         4.5314/EPF         MONTE         8.000         4.5314           WEEL         MALLER EVEROV CENTER 198/*         5.5999         4.5316/EPF         MONTE         8.000         4.5316           WEEL         MALLER EVEROV CENTER 198/*         5.5999         4.5336/EPC         MALLER EVEROV CENTER 198/*         5.5999         4.5331/EPC         MALLER EVEROV CENTER 198/*         5.5999         4.5331/EPC         MALLER EVEROV CENTER 198/*         5.5999         4.5331/EPC         MALLER EVEROV CENTER 198/*         6.0001         4.5331         2           WEEL         MALLER EVEROV CENTER 198/*         5.5999         4.5531/EPC         MALLER EVEROV CENTER 198/*         6.0001         4.5331         2           WEEL         MALLER EVEROV CENTER 198/*         5.9999         4.5536/EPC         MA	WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35349	KACP	'IATAN 345KV'	396	0.00279	-0.35628 2
WEEL         MALLER EVEROV CENTER 198/*         6.5039/VEEL         CETER (LEREOV CENTER 198/*         0.0126         3.5039         C.5           WEEL         MALLER EVEROV CENTER 198/*         5.5099         4.5314/EPF         MONTE         18.000         6.5033         2.5312         2           WEEL         MALLER EVEROV CENTER 198/*         5.5999         4.5314/EPF         MONTE         18.000         4.5312         2           WEEL         MALLER EVEROV CENTER 198/*         5.5999         4.5314/EPF         MONTE         8.000         4.5314           WEEL         MALLER EVEROV CENTER 198/*         5.5999         4.5316/EPF         MONTE         8.000         4.5316           WEEL         MALLER EVEROV CENTER 198/*         5.5999         4.5336/EPC         MALLER EVEROV CENTER 198/*         5.5999         4.5331/EPC         MALLER EVEROV CENTER 198/*         5.5999         4.5331/EPC         MALLER EVEROV CENTER 198/*         5.5999         4.5331/EPC         MALLER EVEROV CENTER 198/*         6.0001         4.5331         2           WEEL         MALLER EVEROV CENTER 198/*         5.5999         4.5531/EPC         MALLER EVEROV CENTER 198/*         6.0001         4.5331         2           WEEL         MALLER EVEROV CENTER 198/*         5.9999         4.5536/EPC         MA	WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35349	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00382	-0.35731 2
WHEE         ABLENE EREFORCENT INFO         L 5.0000         ADV         MODULE 1387/Y         R25.2000         ADVECT         NUMBER OF ADVECTOR INFORM         ADVECTOR	WERE	'ABILENE ENERGY CENTER 115KV'		-0.35349	WERE	'JEFFREY ENERGY CENTER 345KV'		0.01249	-0.36598 2
WREE         MALLINE DREADY CENTRE 1190/         1.5.0000         4.5.0001         1.4.0002         4.5002	WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35349	WEPL	'JUDSON LARGE 115KV'			-0.33442 2
WREE         MALLINE DREADY CENTRE 1190/         1.5.0000         4.5.0001         1.4.0002         4.5002	WERE	'ABILENE ENERGY CENTER 115KV'					252.8508		
WHEE         MALENE EREFORCEDTRY 1190/         6.50000         J.C.YORE UNT SARV         9581         0.00081         0.3565         J.C.YORE UNT SARV         9581         0.00081         0.3565         J.C.YORE UNT SARV         9581         0.00081         0.3565         J.C.YORE UNT SARV         9581         0.00081         0.3561         J.C.YORE UNT SARV         9581         0.00011         0.3561         J.C.YORE UNT SARV         1000017         0.3571         J.C.YORE UNT SARV         0.00017         0.3571         J.C.YORE UNT SARV         D.C.YORE UNT SARV <td>WERE</td> <td>'ABILENE ENERGY CENTER 115KV'</td> <td>5.999996</td> <td></td> <td></td> <td></td> <td></td> <td>-0.00026</td> <td>-0.35323 2</td>	WERE	'ABILENE ENERGY CENTER 115KV'	5.999996					-0.00026	-0.35323 2
WHEE         MALENE PERFORM THEY         5.99998         4.3534 Mary         LACE ROAD SHAVE         3.30         0.001         4.305         2.30           WHEE         ALLIANE ENERGY CENTRE THEY         5.99998         4.3534 Mary         1.80 <t< td=""><td>WERE</td><td>'ABILENE ENERGY CENTER 115KV'</td><td></td><td></td><td></td><td>'LACYGNE UNIT 345KV'</td><td>958</td><td>0.00096</td><td></td></t<>	WERE	'ABILENE ENERGY CENTER 115KV'				'LACYGNE UNIT 345KV'	958	0.00096	
WHEE         ABLENE ENERGY CENTER 118V/         5.9990         0.3356/EURC         LARUSSEL 118V/         1995.44         0.0007         0.3356         0.2375 <th< td=""><td>WERE</td><td>'ABILENE ENERGY CENTER 115KV'</td><td></td><td></td><td></td><td>'LAKE ROAD 161KV'</td><td>35</td><td>0.00151</td><td></td></th<>	WERE	'ABILENE ENERGY CENTER 115KV'				'LAKE ROAD 161KV'	35	0.00151	
MREE         AMELINE ENERGY CENTRE 118V/         6.99990         0.3840 (ADE)         LANUSSE, IFINV         199900         0.3840 (ADE)         LANUSSE, IFINV         199900         0.3840 (ADE)         LANUSSE, IFINV         199900         0.3840 (ADE)         199900 <th< td=""><td>WERE</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	WERE								
MERE         Able EVENCY CENTRE 115V/         5.99990         0.3534 / EPP         LWMENCE EVENCY CENTRE 115V/         5.99990         0.3534 / EPP         LWMENCE EVENCY         9.81 / EPP         Able EVENCY         8.81	WERE	'ABILENE ENERGY CENTER 115KV'	5.999996			'LARUSSEL 161KV'	106.5474	0.00012	
WREE         ABLENE ENERGY CHTRE I 19V         5.99998         4.3594 APV         LEBROX         4515         40007         4.3517         4.359           WREE         ABLENE ENERGY CHTRE I 19V         5.99999         6.3536 ACC         MORTOSE 18VV         4.51         4.0007         4.3517         4.5357         2         3.356         4.25         4.3597         4.5357         4.5357         2         3.356         ACC         3.356         ACC         4.557         4.557         4.5597         3.556         ACC         4.557         4.557         4.5597         4.557         4.557         4.557         4.557         4.557         4.557         4.557         4.5599999         4.3559         4.559         4.559         4.559         4.557         4.557         4.557         4.557         4.5599999         4.5599999         4.559         4.559         4.559         4.557         4.557         4.557         4.5557         2.599999         4.5599999         4.5599999         4.559         4.5599999         4.5599999         4.5599999         4.5599999         4.5599999         4.55999999         4.55999999         4.55999999         4.55999999         4.55999999         4.55999999         4.55999999         4.55999999         4.559999999         4.559999999	WERE	'ABILENE ENERGY CENTER 115KV'				'LAWRENCE ENERGY CENTER 230KV'			
WREE         ABLENE ENERGY CHTRE TISKY         S.999989         0.3584 (NCP         MARSHALL TISKY         115         0.00072         0.3585         C           WREE         ABLENE ENERGY CHTRE TISKY         S.999989         0.3544 (NCE         MUSTAKE SIGNY         5.9151         0.0002         0.3552         C           WREE         ABLENE ENERGY CHTRE TISKY         S.999999         0.3544 (NCE         MUSTAKE TISKY         0.9352         0.0002         0.3552         C         0.0002         0.3552         0.0002         0.3553         C         0.0002         0.3554         0.0002         0.3552         0.0002         0.3552         0.0002         0.3552         C         0.0002         0.3552         0.0002         0.3552         0.0002         0.3552         0.0002         0.3552         0.0002         0.3552         0.0002         0.3552         0.0002         0.0002         0.3552         0.0002         0.0002         0.3552         0.0002         0.0002         0.3552         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.0002         0.00002         0.0002         0.0002         <	WERE		5.999996			'LEBROCK 345KV'		-0.00037	-0.35312 2
WREE         ABLINE ENERGY CENTRE 119X/V         5.999961         -0.5349 (OKG)         WCATTER 119KV         3.51748         0.0009         -0.3528         2           WREE         ABLINE ENERGY CENTRE 119X/V         5.99996         -0.5349 (ACG)         MONTROSE 116V/V         1151         -0.0014         -0.5369         -2           WREE         ABLINE ENERGY CENTRE 119X/V         5.99996         -0.5349 (ACG)         MONTROSE 116V/V         20.0047         -0.5302         2           WREE         ABLINE ENERGY CENTRE 119X/V         5.99996         -0.5349 (ACG)         NIATANA 508 (AVC)         77         70.0014         -0.5488         2         0.0047         -0.5302         2         0.0047         -0.5302         2         0.0047         -0.5302         2         0.0047         -0.5302         2         0.0041         -0.5488         2         0.0041         -0.5488         2         0.0041         -0.5488         2         0.0041         -0.5488         2         0.0041         -0.5488         2         0.0041         -0.5588         2         0.0041         -0.5588         2         0.0041         -0.5588         2         0.0041         -0.5588         2         0.0041         -0.5588         0.0011         -0.55888         0.0017	WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35349	AEPW	'LIEBERMAN 138KV'	91	-0.00034	-0.35315 2
WREE         ABLINE ENERGY CENTRE 115X/         5.99998         -0.5354 (ACP         WOM TOW         35.17.40         0.0010         -0.5542         2           WREE         ABLINE ENERGY CENTRE 115X/         5.99996         -0.5540 (ACR)         1016         -0.5361         -0.5561           WREE         ABLINE ENERGY CENTRE 115X/         5.99996         -0.5540 (ACR)         22         -0.0016         -0.5540         -0.5561         -0.5661         -0.5561 </td <td>WERE</td> <td></td> <td>5.999996</td> <td>-0.35349</td> <td>KACP</td> <td></td> <td>15</td> <td>0.00072</td> <td>-0.35421 2</td>	WERE		5.999996	-0.35349	KACP		15	0.00072	-0.35421 2
WREE         ABLINE ENERGY CENTRE 115X/         5.99998         -0.5354 (ACP         WOM TOW         35.17.40         0.0010         -0.5542         2           WREE         ABLINE ENERGY CENTRE 115X/         5.99996         -0.5540 (ACR)         1016         -0.5361         -0.5561           WREE         ABLINE ENERGY CENTRE 115X/         5.99996         -0.5540 (ACR)         22         -0.0016         -0.5540         -0.5561         -0.5661         -0.5561 </td <td>WERE</td> <td>'ABILENE ENERGY CENTER 115KV'</td> <td>5.999996</td> <td>-0.35349</td> <td>OKGE</td> <td>'MCCLAIN 138KV'</td> <td>478</td> <td>-0.00099</td> <td>-0.3525 2</td>	WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35349	OKGE	'MCCLAIN 138KV'	478	-0.00099	-0.3525 2
WREE         ABLENE ENERGY CENTRE 118V/V         5.99998         -0.35340 (DKG         MUSICANG 138V/V         116         -0.0004         -0.3530         -2.5           WREE         ABLENE ENERGY CENTRE 118V/V         5.99998         -0.35340 (DKG         MUSICANG 138V/V         72         -0.0014         -0.35301         -0.5540 (DKG         -0.5550 (DKG         -0.5540 (DKG         -0.55570 (DKG         -0.5550 (DKG         <	WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35349	KACP	'MONTROSE 161KV'	351.749	0.00103	-0.35452 2
WREE         ABLENE ENROY CENTER 1156V         5.999906         0.33240 (ACGE         MUSTAGE GRAV         108         0.00007         0.33252         2           WREE         ABLENE ENROY CENTER 1156V         5.99996         0.35340 (ACV         NEAMAN 115KV         2.0         0.00169         0.35460         2.5         2         0.00169         0.35460         2.5         0.00169         0.35460         2.5         0.00169         0.35460         2.5         0.00169         0.35460         2.5         0.00169         0.35460         2.5         0.00169         0.35460         2.5         0.00169         0.35460         2.5         0.00169         0.35460         2.5         0.00169         0.35460         2.5         0.00169         0.35460         2.5         0.00169         0.35460         0.00169         0.35460         0.00169         0.35460         0.00169         0.35460         0.00169         0.35460         0.00169         0.35460         0.00169         0.35460         0.00169         0.35460         0.00169         0.35460         0.00169         0.35460         0.00169         0.35460         0.00169         0.35460         0.00169         0.35460         0.00169         0.35460         0.00169         0.35460         0.00169         0.35460	WERE		5.999996	-0.35349	OKGE	'MUSKOGEE 345KV'	1516	-0.0004	-0.35309 2
WERE         ABLENE ENERGY CENTER 1158/*         5.59995         0.3334         AEPV         NARRAM.         Description         Database         Database <thdatabase< th="">         Database         Database<td>WERE</td><td>'ABILENE ENERGY CENTER 115KV'</td><td>5.999996</td><td>-0.35349</td><td>OKGE</td><td>'MUSTANG 138KV'</td><td>365.5</td><td>-0.00097</td><td>-0.35252 2</td></thdatabase<>	WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35349	OKGE	'MUSTANG 138KV'	365.5	-0.00097	-0.35252 2
WERE         ABLENE ENERGY CENTER         118/V         5.999996         3.3536 (ACV)         NEARMAN 16/W         27         0.0149         0.3549         2           WERE         ABLENE ENERGY CENTER         118/V         5.999996         3.5539 (ACV)         NEARMAN 16/W         200146         3.5498         2           WERE         ABLENE ENERGY CENTER         118/V         5.999996         3.5336 (AEV)         NEARMAN 16/W         5.99997         3.3537 (AEV)         6.99998         3.3538 (AEV)         NEARMAN 16/W         5.999986         3.3536 (AEV)         118/V         5.99998         3.3536 (AEV)         NEARMAN 16/W         5.999986         3.3536 (AEV)         NEARMAN 16/W	WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35349	OKGE	'MUSTANG 69KV'	106	-0.00098	-0.35251 2
WERE         ABLENE ENERGY CENTER 118/V         5.99996         0.33349/KCY         NEARANAL 20/V         2.00         0.0149         0.34349           WERE         ABLENE ENERGY CENTER 118/V         5.99996         0.33349/AEPW         NORTH-ASTERN STATION 136V/         6.60022         0.35231         2           WERE         ABLENE ENERGY CENTER 115/V         5.99996         0.33349/AEPW         NORTH-ASTERN STATION 136V/         6.60022         0.35221         2           WERE         ABLENE ENERGY CENTER 115/V         6.99996         0.33349/AEPW         NORTH-ASTERN STATION 356V/         16.40027         0.00027         0.35227         2           WERE         ABLENE ENERGY CENTER 115/V         5.99996         0.33349/ACEE         ONE OAX 345V/V         100         0.00002         0.35257         2           WERE         ABLENE ENERGY CENTER 115/V         5.99996         0.33349/ACEE         ONE OAX 345V/V         100         0.00002         0.33567         2           WERE         ABLENE ENERGY CENTER 115/V         5.99996         0.33549/ACEP         PAGL 2.0048/ASV/V         100         0.00002         0.33567         2           WERE         ABLENE ENERGY CENTER 115/V         5.99996         0.33549/ACEP         PAGL 2.0048/ASV/V         100<0014	WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35349	AEPW	'NARROWS 69KV'	22	-0.00047	-0.35302 2
WERE         ABILINE ENERGY CENTER 115KV         5.99996         0.33349 AEPW         NORTH-6ASTERN STATION 138KV         500         0.00028         0.33321         2           WERE         ABILINE ENERGY CENTER 115KV         5.99996         0.33349 AEPW         NORTH-6ASTERN STATION 138KV         6.69         0.00028         0.35321         2           WERE         ABILINE ENERGY CENTER 115KV         5.99996         0.33349 AEPW         NORTH-6ASTERN STATION 138KV         6.19         0.00028         0.35314         2           WERE         ABILINE ENERGY CENTER 115KV         5.99996         0.35349 (ACE         ONE OAK 345KY         15.80         0.00022         0.35357         2           WERE         ABILINE ENERGY CENTER 115KV         5.99996         0.35349 (ACE         ONE OAK 345KY         16         0.00008         0.35357         2           WERE         ABILINE ENERGY CENTER 115KV         5.99996         0.35349 (ACE         ONE OAK 345KY         16         0.00008         0.35357         2           WERE         ABILINE ENERGY CENTER 115KV         5.99996         0.35349 (ACE         ONE OAK 345KY         15.9007         0.35362         2         0.0008         0.35396         2         0.0008         0.35396         2         0.0008         0.35396	WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35349	KACY	'NEARMAN 161KV'	77	0.00149	-0.35498 2
WERE         ABILINE ENERGY CENTER 115KV         5.99996         -0.33390 AEPW         NORTHEASTERN STATION 138KV         500         -0.0028         -0.33231         2           WERE         ABILINE ENERGY CENTER 115KV         5.99966         -0.33300 AEPW         NORTHEASTERN STATION 138KV         6.65         -0.0028         -0.35314         -25           WERE         ABILINE ENERGY CENTER 115KV         5.99966         -0.35340 AEPW         NORTHEASTERN STATION 138KV         6.9107         -0.9107         -0.9107         -0.9307         -0.9307         -0.9307         -0.9007         -0.9307         -0.9307         -0.9007         -0.9307         -0.9307         -0.9007         -0.9307         -0.9007         -0.9307         -0.9007         -0.9307         -0.9007         -0.9307         -0.9007         -0.9307         -0.9007         -0.9307         -0.9007         -0.9307         -0.9007         -0.9307         -0.9007         -0.93367         -0.9008         -0.93390         ADLINE ENERGY CENTER 115KV         5.99996         -0.93369         ADLINE ENERGY CENTER 11	WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35349	KACY	'NEARMAN 20KV'	220	0.00149	-0.35498 2
WERE         ABLENE ENERGY CENTER 115KV         5.99998         -0.35349 (AEW         PC         PC        PC        PC        PC </td <td>WERE</td> <td>'ABILENE ENERGY CENTER 115KV'</td> <td></td> <td>-0.35349</td> <td>AEPW</td> <td></td> <td>500</td> <td>-0.00028</td> <td></td>	WERE	'ABILENE ENERGY CENTER 115KV'		-0.35349	AEPW		500	-0.00028	
WERE         ABLENE ENERGY CENTER 115/V         5.999996         -0.33349 (OKG         OMPA-KAW (BNV         19.7         -0.0077         -0.3272         22           WERE         ABLENE ENERGY CENTER 115/V         5.999996         -0.35349 (OKG         OMPA-ADVCA CITY GNV         154.488         -0.0007         -0.3527         -2           WERE         ABLENE ENERGY CENTER 115/V         5.999996         -0.35349 (EKG         OMPA-AVK/SV         -30000         -0.35377         -2           WERE         ABLENE ENERGY CENTER 115/V         5.999986         -0.35349 (EKG         OMPA-AVK/SV         -4.30124         -0.35349         -2           WERE         ABLENE ENERGY CENTER 115/V         5.999986         -0.35349 (EKG         OUNDARO 68/V         14.0         0.0014         -0.35489         -2           WERE         ABLENE ENERGY CENTER 115/V         5.999986         -0.35349 (EKG         TOUNDARO 68/V         14.0         0.0014         -0.35489         -2           WERE         ABLENE ENERGY CENTER 115/V         5.999996         -0.35349 (EKG         TOUNDARO 68/V         26.0         0.0004         -0.35365         -2           WERE         ABLENE ENERGY CENTER 115/V         5.999996         -0.35349 (EKG         FEVER/VG MITON 113/V         7.00007         -0.35365	WERE		5.999996	-0.35349	AEPW	'NORTHEASTERN STATION 345KV'		-0.00024	-0.35325 2
WERE         ABILENE EMERGY CENTRE 115V/         5.99996         -0.3534 (OKGE         OMP.A-PORCA CITY 69V/         154.4480         -0.0077         -0.35272         2           WERE         ABILENE EMERGY CENTRE 115V/         5.99996         -0.3534 (OKGE         ONA 345V/         300         0.0002         -0.35272         2           WERE         ABILENE EMERGY CENTRE 115V/         5.99996         -0.3534 (KACP         PAOLA COMBLISTON TURBINES 161V/         16         0.0000         -0.35372         2           WERE         ABILENE EMERGY CENTRE 115V/         5.99996         -0.3534 (KACP         PAOLA COMBLISTON TURBINES 161K/         7.5         -0.0037         -0.3534         CA         0.00140         -0.3548         CA         -0.0037         -0.3534         CA         -0.00147         -0.3534         CA         -0.0037         -0.3534         CA         -0.0047         -0.3534         CA         -0.0037         -0.3534         CA         -0.0047         -0.3534<	WERE	'ABILENE ENERGY CENTER 115KV'				'OEC 345KV'			-0.35314 2
WERE         ABILENE ENERGY CENTRE 115KV         5.99996         -0.35340 [CRC         ONE OAK 345KV         -0.300         -0.0002         -0.35277         2           WERE         ABILENE ENERGY CENTRE 115KV         5.99996         -0.35340 [CRC         TOXAR BEACH 115KV         75.37085         0.0006         -0.35472         2           WERE         ABILENE ENERGY CENTRE 115KV         5.99996         -0.35440 [ACPV         PIRKEY CENTRE 115KV         76.00037         -0.35472         2           WERE         ABILENE ENERGY CENTRE 115KV         5.999966         -0.35440 [ACPV         PIRKEY CENTRE 115KV         16.00140         -0.35480         2           WERE         ABILENE ENERGY CENTRE 115KV         5.999966         -0.35440 [ACV         DUNDARO 60KV         16.00140         -0.0014         -0.35480           WERE         ABILENE ENERGY CENTRE 115KV         5.999966         -0.35440 [ADV         77.2         2.00070         -0.35561         2           WERE         ABILENE ENERGY CENTRE 115KV         5.999966         -0.35440 [ADV         77.2         2.00070         -0.35561         2           WERE         ABILENE ENERGY CENTRE 115KV         5.999966         -0.35440 [ADCE         545KV         48.2         2.00071         -0.35471         2         2.00071	WERE		5.999996		OKGE			-0.00077	-0.35272 2
WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.3534 [RADE         D/2ARK BEACH 161KV         16         0.00006         -0.35337         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.3534 [RADE         PRACLA COMBUSTION TURBINES 161KV         157.056         0.00101         -0.3534 [RADE         PREKEY CENTER 115KV         5.99996         -0.3534 [RACY         OUNDARD 161KV         150.151KV         150.00016         -0.3534 [RACY         OUNDARD 66KV         150.151KV         150.00016         -0.3534 [RACY         OUNDARD 66KV         150.00016         -0.35349 [RACY         20.00016         -0.35349 [RACY         20.00016         -0.35349 [RACY         20.00017         -0.35346 [RACY         20.00017         -0.35347 [RACY <td>WERE</td> <td>'ABILENE ENERGY CENTER 115KV'</td> <td></td> <td></td> <td></td> <td>'OMPA-PONCA CITY 69KV'</td> <td></td> <td></td> <td></td>	WERE	'ABILENE ENERGY CENTER 115KV'				'OMPA-PONCA CITY 69KV'			
WERE         ABILENE ENERGY CENTER. 115KV         5.999996         -0.35349 (AEVACP         PAOLA COMBUSTION TUBBINES 161KV         75.37085         0.00106         -0.3549 (AEVACP           WERE         ABILENE ENERGY CENTER. 115KV         5.999996         -0.35349 (AEVAC)         OUINDARG 06KV         110.1932         0.00149         -0.3549 (AEVACP)           WERE         ABILENE ENERGY CENTER. 115KV         5.999996         -0.35349 (AEVAC)         OUINDARG 06KV         120.0007         -0.35349 (AEVACP)           WERE         ABILENE ENERGY CENTER. 115KV         5.999996         -0.35349 (AEVAC)         OUINDARG 06KV         260.00084         -0.35349 (AEVACP)           WERE         ABILENE ENERGY CENTER. 115KV         5.999996         -0.35349 (AEVACP)         PAOLA CONSUMAND         -0.25349 (AEVACP)         -0.0007         -0.35386         22           WERE         ABILENE ENERGY CENTER. 115KV         5.999996         -0.3549 (AEVACP)         PAOLA CONSUMAND         -0.25281         -0.0007         -0.35386         22           WERE         ABILENE ENERGY CENTER. 115KV         5.999996         -0.3549 (MEGE         SEINFY 015KV         -0.2649         -0.00091         -0.35286         22         WERE         ABILENE ENERGY CENTER. 115KV         5.999996         -0.3549 (MEGE         SEINFY 015KV         12.00007         -0.3									
WERE         ABLENK ENERGY CENTER 115KV         5.999986         -0.33349 JAEPW         PIRKEY GENERATION 138KV         4475         0.0007         0.3312         2           WERE         ABLENK ENERGY CENTER 115KV         5.999986         -0.33349 JAC7V         10.0149         -0.34488         2           WERE         ABLENK ENERGY CENTER 115KV         5.999986         -0.33349 JAC7V         20010ARO 69KV         14.04         0.00149         -0.34588         2           WERE         ABLENK ENERGY CENTER 115KV         5.999986         -0.33349 JAC7V         QUINDARO 69KV         46.6         -0.0004         -0.35356         2           WERE         ABLENK ENERGY CENTER 115KV         5.999966         -0.33349 JAC7V         RESULTS         72         0.00007         -0.35356         2           WERE         ABLENK ENERGY CENTER 115KV         5.999966         -0.3349 JOK6         StankOLE 346KV         42.52617         2         0.0007         -0.35256         2           WERE         ABLENE ENERGY CENTER 115KV         5.999966         -0.3349 JOK6         StankOLE 346KV         49.900         -0.0007         -0.35258         2           WERE         ABLENE ENERGY CENTER 115KV         5.999986         -0.3349 JOK7         Stankord         -0.35259         2	WERE								
WERE         ABILENE ENERGY CENTER 115KV         5.999961         0.33349 [ACV         QUINDARO 161KV         130.1932         0.00149         0.33496         2           WERE         ABILENE ENERGY CENTER 115KV         5.999961         0.33349 [ACV         QUINDARO 68KV         250         0.00048         0.33266         2           WERE         ABILENE ENERGY CENTER 115KV         5.999961         0.33349 [ACV         RVERTON         154         0.0004         0.33266         2           WERE         ABILENE ENERGY CENTER 115KV         5.999961         0.33349 [ADVE         RIVERTON 161KV         72         0.00007         -0.3356         2           WERE         ABILENE ENERGY CENTER 115KV         5.999961         0.33349 [MDVE         RIVERTON 168KV         4258215         0.00007         -0.3356         2           WERE         ABILENE ENERGY CENTER 115KV         5.999961         0.33349 [MDVE         SILVERTON         4258215         0.00021         -0.3577         2           WERE         ABILENE ENERGY CENTER 115KV         5.999966         0.33349 [MDVE         SILVEY         4259996         0.03249         2.3527         2           WERE         ABILENE ENERGY CENTER 115KV         5.999966         0.33349 [MTVE         SILVEY         4599996         0.035									
WERE         ABILENE ENERGY CENTER 115KV         5.99996 [0.35349 [ACV         QUINDARG 68KV         Q140         0.00149         0.35468         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996 [0.35349 [AEVW]         RIVERSIDE STATION 138KV         646         0.0004 [0.3536]         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996 [0.35349 [ADVR]         RIVERTON 161KV         72         0.0007 [0.3536]         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996 [0.35349 [MDC         RIVERTON 68KV         425.6215         0.00027 [0.3536]         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996 [0.35349 [MDC         RIVERTON 68KV         425.0007 [0.3536]         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996 [0.35349 [MDC         Station 1000 [Station 10000 [Station 1000 [Station 10000 [Station 1000 [Station 1									
WERE         (ABILENE ENERGY CENTER 115KV)         5.99996         0.33349 (OKGE         RECDBUD 345KV         250         0.00084         0.32565         2           WERE         (ABILENE ENERGY CENTER 115KV)         5.99996         0.33349 (EMC         RIVERTON 131KV         6.66         0.0004         0.3556         2           WERE         (ABILENE ENERGY CENTER 115KV)         5.99996         0.33349 (EMC         RIVERTON 151KV         42.62617         0.00007         0.3556         2           WERE         (ABILENE ENERGY CENTER 115KV)         5.99996         0.35349 (EMC         SEMINOLE 138KV         42.62617         0.00027         0.3556         2           WERE         (ABILENE ENERGY CENTER 115KV         5.999966         0.35349 (EMC         SEMINOLE 138KV         42.62617         0.00027         0.3556         2           WERE         (ABILENE ENERGY CENTER 115KV         5.999966         0.35349 (MPU         SIBLEY 161KV         229.0368         0.00021         0.3547         2           WERE         (ABILENE ENERGY CENTER 115KV         5.999966         0.3549 (MCG         SIONHCOSE SIGNICON         45.99999         0.03549 (CG         SIONHCOSE SIGNICON         5.0006         0.3549 (ACG         SIONHCOSE SIGNICON         5.00061         0.3540 (ACG         SIONHCOSE SIGNICON						'QUINDARO 161KV'			
WERE         ABILENE ENERGY CENTER 115KV         5.999996         0.35349 AEPW         RIVERSIDE STATION 138KV         666         -0.0004         0.35309         2           WERE         ABILENE ENERGY CENTER 115KV         5.999996         0.35349 [MDE         RIVERTON 161KV         72         0.0007         0.35356         2           WERE         ABILENE ENERGY CENTER 115KV         5.999996         0.35349 [OKGE         SEMINOLE 138KV         42.58215         0.00007         0.35356         2           WERE         ABILENE ENERGY CENTER 115KV         5.999996         0.35349 [OKGE         SEMINOLE 138KV         492.686         0.00001         0.35258         2           WERE         ABILENE ENERGY CENTER 115KV         5.999996         0.35349 [MPU         SIBLEY 161KV         229.0386         0.00011         0.35252         2           WERE         ABILENE ENERGY CENTER 115KV         5.999996         0.35349 [OKGE         SONTH TOOGEN 138KV         100         0.00007         0.35269         2           WERE         ABILENE ENERGY CENTER 115KV         5.999996         0.35349 [OKGE         SONTH HARPER 161KV         503         0.00007         0.35269         2           WERE         ABILENE ENERGY CENTER 115KV         5.999996         0.35349 [OKGE         SONTH HARPER 161KV </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>'QUINDARO 69KV'</td> <td></td> <td>0.00149</td> <td></td>						'QUINDARO 69KV'		0.00149	
WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349 [MDE         RIVERTON 161KV         7.2         0.0007         -0.35366         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349 [MDE         RIVERTON 161KV         4252615         0.00007         -0.35366         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349 [MEC         SIEMNOLE 345KV         422.0036         0.00121         -0.3547         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349 [MEU         SIBLEY 161KV         422.00368         0.00125         -0.35474         22           WERE         ABILENE ENERGY CENTER 115KV         5.999996         -0.35349 [OKGE         SOUNER 138KV         120         -0.00021         -0.35269         22           WERE         ABILENE ENERGY CENTER 115KV         5.999996         -0.35349 [OKGE         SOUNER 138KV         120         -0.00081         -0.35269         22           WERE         ABILENE ENERGY CENTER 115KV         5.999996         -0.35349 [OKGE         SOUNER 138KV         150         -0.00081         -0.35265         22           WERE         ABILENE ENERGY CENTER 115KV         5.999996         -0.35349 [OKGE         SOUNEH ABREVE									
WERE         ABILENE ENERGY CENTER 115KV         5.999996         -0.33349         ENDE         RIVERTON 69KV         42.5215         0.00007         -0.33366         2           WERE         ABILENE ENERGY CENTER 115KV         5.999996         -0.33349         OKGE         SEMINOLE 138KV         996         -0.000021         -0.35267         22           WERE         ABILENE ENERGY CENTER 115KV         5.999996         -0.33349         OKGE         SEMINOLE 138KV         996         -0.00021         -0.35267         22           WERE         ABILENE ENERGY CENTER 115KV         5.999996         -0.33349         MPU         SIBLEY 161KV         220.0388         0.00121         -0.35267         22           WERE         ABILENE ENERGY CENTER 115KV         5.999996         -0.33349         MPU         SIBLEY 161KV         220.0388         0.00121         -0.35262         22           WERE         ABILENE ENERGY CENTER 115KV         5.999996         -0.33349         OKGE         SOCNER 138KV         513         -0.00064         -0.35265         22           WERE         ABILENE ENERGY CENTER 115KV         5.999996         -0.33349         OKGE         SOCNER 138KV         513         -0.00064         -0.35265         22           WERE         ABILEN		'ABILENE ENERGY CENTER 115KV'							
WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.33349 (OKGE         SEMINOLE 138KV         482.007         -0.0092         -0.32257         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.33349 (OKGE         SEMINOLE 138KV         9.996         -0.03228         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349 (MPU         SIBLEY 61KV         229.0388         0.00121         -0.3474         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349 (MFU         SIBLEY 61KV         5.09076         30874         22         0.00077         -0.35285         22           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349 (MGE         SOUTH ANDER 115KV         5.09086         -0.35349         0.03286         22           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349         SOUTH ANDER 115KV         3.15         -0.0004         -0.35286         22           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349 (MEE         SOUTH ANDER 115KV         3.15         -0.0011         -0.35368         22           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349 (MEE         TTE	WERE								
WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.33249 (NGCE         SEMINOLE 345KV	WERE	'ABILENE ENERGY CENTER 115KV'				'RIVERTON 69KV'			
WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349 [MIPU         SIBLEY 161KV         229.0388         0.00121         -0.3547         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349 [MIPU         SIBLEY 69KV         45.99999         -0.03547         2           WERE         ABILENE ENERGY CENTER 115KV         5.999966         -0.03349 (OKGE         SMITH COGEN 138KV         120         -0.0097         -0.35269         2           WERE         ABILENE ENERGY CENTER 115KV         5.999966         -0.35349 (OKGE         SOONER 138KV         513         -0.0084         -0.35269         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349 (OKGE         SOUTH ANPER 161KV         513         -0.0084         -0.35266         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349 (DKGE         SOUTH ANPER 161KV         327         -0.00131         -0.35366         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349 (MER         TECLINBEH 161KV         327         -0.00131         -0.35366         2           WERE         ABILENE ENERGY CENTER 115KV         5.999966         -0.35349 (MER         TECLINBEH 155KV         20	WERE	'ABILENE ENERGY CENTER 115KV'							
WERE         JABLENE ENERGY CENTER 115KV         5.99996         -0.35349         JINU         SIBLEY 69KV         445.99999         0.00127         -0.3542         2           WERE         JABLENE ENERGY CENTER 115KV         5.99996         -0.35349         JKITH COGEN 138KV         5.00008         -0.35262         2           WERE         JABLENE ENERGY CENTER 115KV         5.99996         -0.35349         JKGE         SOONER 138KV         5.01         -0.0008         -0.35262         2           WERE         JABLENE ENERGY CENTER 115KV         5.99996         -0.35349         JKGE         SOONER 138KV         315         -0.0018         -0.35262         2           WERE         JABLENE ENERGY CENTER 115KV         5.999996         -0.35349         JKUE         315         -0.00151         -0.3546         2           WERE         ABLENE ENERGY CENTER 115KV         5.999996         -0.35349         JKUE RE         TECUMSEH ENTKV         5.00007         -0.35361         22           WERE         ABLENE ENERGY CENTER 115KV         5.999996         -0.35349         JKUE RE         TECUMSEH ENTKV         5.00007         -0.35361         22           WERE         ABLENE ENERGY CENTER 115KV         5.999996         -0.35349         JKERE         TAULSA POWER S									
WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349         OKGE         SMTH COGEN 138KV         120         -0.0097         -0.3522         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349         OKGE         SOONER 138KV         505         -0.0084         -0.35269         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349         INCUT         -0.0084         -0.35265         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349         INCUT         -0.3546         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349         END         -0.0158         -0.3516         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349         END         -0.00319         -0.35366         2           WERE         ABILENE ENERGY CENTER 115KV         5.999996         -0.35349         END         1115KV         109         -0.00319         -0.35319         2           WERE         ABILENE ENERGY CENTER 115KV         5.999996         -0.35349         AEPW         YULSA POMER STATION 138KV         17.96         -0.0015         -0.35191         2 <td< td=""><td></td><td>ABILENE ENERGY CENTER 115KV</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>		ABILENE ENERGY CENTER 115KV							
WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349 (OKGE         SOONER 138KV         5.05         -0.0008         -0.35269         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349 (OKGE         SOONER 345KV         513 -0.0008         -0.35265         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349 (MPL         SOUTHH ARPER 151KV         315 -0.00111         -0.35461         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349 (MPL         SOUTHWESTERN STATION 138KV         327 -0.00158         -0.00319         -0.35361         2           WERE         ABILENE ENERGY CENTER 115KV         5.999996         -0.35349 (MPL         STATE LINE 161KV         5.00017         -0.35361         2           WERE         ABILENE ENERGY CENTER 115KV         5.999996         -0.35349 (MPER         TECUMSEH ENERGY CENTER 115KV         2.36         -0.00319         -0.35361         2           WERE         ABILENE ENERGY CENTER 115KV         5.999996         -0.35349 (MPER         TULSA POWER STATION 138KV         2.03         -0.0005         -0.35289         22           WERE         ABILENE ENERGY CENTER 115KV         5.999996         -0.35349 (AEPW         WELET KA 138KV         70 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349         (DKGE         SOUTH HARPER 115KV         5.13         -0.000841         -0.35265         2           WERE         ABILENE ENERGY CENTER 115KV         5.999966         -0.35349         MEPU         SOUTH HARPER 161KV         315         -0.000841         -0.35265         2           WERE         ABILENE ENERGY CENTER 115KV         5.999966         -0.35349         ENEW         500TH HARPER 161KV         500         -0.035366         2           WERE         ABILENE ENERGY CENTER 115KV         5.999966         -0.35349         ENEW         500TH HARPER 161KV         500         -0.00319         -0.35366         2           WERE         ABILENE ENERGY CENTER 115KV         5.999966         -0.35349         ENEW         10.400015         -0.35311         2           WERE         ABILENE ENERGY CENTER 115KV         5.999966         -0.35349         ENEW         17.96         -0.0015         -0.35289         2           WERE         ABILENE ENERGY CENTER 115KV         5.999996         -0.35349         ENEW         17.96         -0.0015         -0.35289         2           WERE         ABILENE ENERGY CENTER 115KV         5.999996         -0.35349         ENEW         12.94		ABILENE ENERGY CENTER 115KV				'SMITH COGEN 138KV'			
WERE         JABLENE ENERGY CENTER 115KV         5.99996         -0.35349 JMPU         SOUTH HARPER 161KV         315         0.00111         -0.3546         2           WERE         JABLENE ENERGY CENTER 115KV         5.99996         -0.35349 JAEPW         SOUTHWESTERN STATION 138KV         327         -0.00158         -0.03191         2           WERE         JABLENE ENERGY CENTER 115KV         5.99996         -0.35349 JMERE         TECLIMSE HENRGY CENTER 115KV         10.9007         -0.35363         22           WERE         ABLENE ENERGY CENTER 115KV         5.999996         -0.35349 JMERE         TECLIMSE HENRGY CENTER 115KV         10.9007         -0.35363         22           WERE         ABLENE ENERGY CENTER 115KV         5.999996         -0.35349 JMERE         TECLIMSE HENRGY CENTER 115KV         2.8         -0.00039         -0.35361         22           WERE         ABLENE ENERGY CENTER 115KV         5.999996         -0.35349 JMERE         WACO 138KV         70         -0.0006         -0.35288         22           WERE         ABLENE ENERGY CENTER 115KV         5.999996         -0.35349 JAEPW         WELESTA 138KV         70         -0.0006         -0.35288         22           WERE         ABLENE ENERGY CENTER 115KV         5.999996         -0.35349 JAEPW         WILKES 138KV				-0.35349	OKGE				
WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349         EPW         SOUTHWESTERN STATION 138KV         327         -0.00158         -0.35161         2           WERE         ABILENE ENERGY CENTER 115KV         5.999966         -0.35349         EMDE         5         0.00017         -0.35366         2           WERE         ABILENE ENERGY CENTER 115KV         5.999966         -0.35349         EMDE         100         -0.00319         -0.35361         2           WERE         ABILENE ENERGY CENTER 115KV         5.999966         -0.35349         EMER         TULSA POMES TATION 138KV         236         -0.00319         -0.35311         2           WERE         ABILENE ENERGY CENTER 115KV         5.999996         -0.35349         INERE         WACO 138KV         17.96         -0.0015         -0.35189         2           WERE         ABILENE ENERGY CENTER 115KV         5.999996         -0.35349         INERE         VACO 138KV         70         -0.0006         -0.35289         2           WERE         ABILENE ENERGY CENTER 115KV         5.999996         -0.35349         AEPW         WILLES 435KV         70         -0.0006         -0.35311         2           WERE         ABILENE ENERGY CENTER 115KV         5.999996									
WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349         ENDE         STATE LINE 161KV         5.00         0.0007         -0.3536         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349         MERE         TECUMSEH ENERGY CENTER 115KV         108         -0.00031         -0.35330         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349         MERE         TECUMSEH ENERGY CENTER 115KV         2.36         -0.00031         -0.35331         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349         MERE         MALENE ENERGY CENTER 115KV         5.999996         -0.35349         MERE         -0.0016         -0.35289         22           WERE         ABILENE ENERGY CENTER 115KV         5.999996         -0.35349         AEPW         WELETKA 138KV         70         -0.0006         -0.35289         22           WERE         ABILENE ENERGY CENTER 115KV         5.999996         -0.35349         AEPW         WELETKA 138KV         70         -0.0038         -0.35311         2           WERE         ABILENE ENERGY CENTER 115KV         5.999996         -0.35349         AEPW         WILKES 138KV         34.0422         -0.00081         -0.35311 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
WERE         JABILENE ENERGY CENTER 115KV         5.99996         -0.35349 [WERE         TECUMSEH ENERGY CENTER 115KV         108         -0.00319         -0.3531         2           WERE         JABILENE ENERGY CENTER 115KV         5.99996         -0.35349 [JEPK         TULSA POWER STATION 138KV         236         -0.00319         -0.3531         2           WERE         JABILENE ENERGY CENTER 115KV         5.99996         -0.35349 [JEPK         WACO 138KV         17.96         -0.0015         -0.35289         22           WERE         JABILENE ENERGY CENTER 115KV         5.999966         -0.35349 [JEPK         WELEETKA 138KV         900         -0.00041         -0.35289         22           WERE         JABILENE ENERGY CENTER 115KV         5.999966         -0.35349 [JEPW         WELEETKA 138KV         900         -0.00341         -0.35381         22           WERE         ABILENE ENERGY CENTER 115KV         5.999966         -0.35349 [JEPW         WILKES 134KV         901         -0.0038         -0.35311         22           WERE         ABILENE ENERGY CENTER 115KV         5.999966         -0.35349 [JEPW         WILKES 134KV         940         0.01249         -0.35311         22           WERE         ABILENE ENERGY CENTER 115KV         5.999996         -0.35349 [JEPW         W									
WERE         IABILENE ENERGY CENTER 115KV         5.99996         -0.35349         AEPW         TULSA POWER STATION 138KV         2.36         -0.0039         -0.35319         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349         WERE         WACO 138KV         17.96         -0.00039         -0.35319         2           WERE         ABILENE ENERGY CENTER 115KV         5.999996         -0.35349         AEPW         WELETKA 138KV         70         -0.0006         -0.35289         2           WERE         ABILENE ENERGY CENTER 115KV         5.999996         -0.35349         AEPW         WELEST 1.35KV         9990         -0.0031         -0.35311         2           WERE         ABILENE ENERGY CENTER 115KV         5.999996         -0.35349         AEPW         WILKES 138KV         345.0342         -0.0038         -0.35311         2           WERE         CALV CENTER 115KV         5.999996         -0.35349         AEPW         WILKES 138KV         345.0342         -0.0331         0.235311         2           WERE         CALV CENTER 115KV         5.999996         -0.35319         VERE         DEFREY ENERGY CENTER 345KV         340.4024         2         WERE         BPU - CITY OF MCPHERSON 115KV         340.01249         -0.24		ABILENE ENERGY CENTER 115KV				STATE LINE 161KV	503		-0.35356 2
WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349         WERE         WACO 138KV         17.96         -0.03169         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349         APEW         WELETKA 138KV         70         -0.0006         -0.35289         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349         APEW         WELETKA 138KV         990         -0.00041         -0.35381         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349         AEPW         WILKES 138KV         340.402         -0.0031         -0.35311         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349         AEPW         WILKES 138KV         340.402         -0.03311         2           WERE         CLAY CENTER 115KV         5.999996         -0.35349         AEPW         WILKES 138KV         940         0.01249         -0.35311         2           WERE         CLAY CENTER 115KV         5.999996         -0.35349         MERE         UEFREY ENERGY CENTER 345KV         940         0.01249         -0.3511         2           WERE         CALY CENTER 115KV         148.662         -0.12315									
WERE         IABILENE ENERGY CENTER 115KV         5.99996         -0.35349         AEPW         WELEET X 138KV         70         -0.0006         -0.35289         2           WERE         IABILENE ENERGY CENTER 115KV         5.99996         -0.35349         AEPW         WELSH 138KV         90         -0.0006         -0.35289         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349         AEPW         WILSH 138KV         354.0342         -0.0006         -0.35398         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349 AEPW         WILKES 138KV         354.0342         -0.00038         -0.35311         2           WERE         CLAV CENTER 105KV         5.999996         -0.35349 AEPW         WILKES 345KV         311         -0.0038         -0.35311         2           WERE         CLAV CENTER 105KV         5.99996         -0.35349 IEPW         WILKES 345KV         940         0.01249         -0.3531           WERE         DABLENE ENERGY CENTER 115KV         5.99996         -0.35349 IEPW         FILEFREY ENERGY CENTER 345KV         940         0.11249         -0.11553         3           WERE         DPU - CITY OF MCPHERSON 115KV         381         -0.22315 IWEPL         A.M. MULLERCENERGY CE									
WERE         IABILENE ENERGY CENTER 115KV         5.99996         -0.35349         AEPW         WELEN 1.345KV         9.90         -0.00041         -0.35389         2           WERE         IABILENE ENERGY CENTER 115KV         5.99996         -0.35349         AEPW         WILKES 1345KV         346.0424         -0.00031         -0.35311         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349         AEPW         WILKES 1345KV         341         -0.0038         -0.35311         2           WERE         CLAY CENTER 115KV         5.99996         -0.35349         AEPW         WILKES 1345KV         940         0.01249         -0.35311         2           WERE         CLAY CENTER 115KV         5.999996         -0.35349         MERE         JEFFREY ENERGY CENTER 345KV         940         0.01249         -0.35341         2           WERE         ABILENE ENERGY CENTER 115KV         148.6862         -0.15341         WERE         JEFFREY ENERGY CENTER 345KV         940         0.01249         -0.35341         0.1551         3           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.223151         WERE         JEFFREY ENERGY CENTER 345KV         940         0.01249         -0.12583         3           W									
WERE         IABILENE ENERGY CENTER 115KV         5.99996         -0.35349 / AEPW         WILKES 138KV         354.0342         -0.0038         -0.35311         2           WERE         IABILENE ENERGY CENTER 115KV         5.99996         -0.35349 / AEPW         WILKES 436KV         311         -0.0038         -0.35311         2           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215 WERE         JEFREY ENERGY CENTER 345KV         940         0.01249         -0.24464         2           WERE         BAILENE ENERGY CENTER 115KV         5.99996         -0.33349 WERE         BPU - CITY OF MCPHERSON 115KV         66.30176         -0.16334         -0.1915         3           WERE         BPU - CITY OF MCPHERSON 115KV         144.6682         -0.16334 WERE         BPU - CITY OF MCPHERSON 115KV         940         0.01249         -0.24464         2           WERE         CLAY CENTER JUNCTION 115KV         144.6682         -0.15334 WERE         ISFREY ENERGY CENTER 345KV         940         0.01249         -0.17633         33           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215 [MEPL         A.M. MULLERGREN GENERATOR 115KV         320         -0.00021         -0.2318         33           WERE         CLAY CENTER JUNCTION 115KV         38.1 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>									
WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349 AEPW         WILLES 345KV         311         -0.0038         -0.35311         2           WERE         CLAV CENTER JUNCTION 115KV         38.1         -0.22315 [WERE 10EFREY CENTER 345KV         940         -0.01249         -2.24464         2           WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349 [WERE BPU - CITY OF MCPHERGY OF 115KV         65.0176         -0.16334         -0.19015         3           WERE         BUP - CITY OF MCPHERGY OF 115KV         148.6982         -0.13341 [WERE BPU - CITY OF MCPHERGY OF 115KV         940         0.01249         -0.17583         3           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215 [WEPL         A. M. MULLERGREN GENERATOR 115KV         65         -0.02666         -0.20548         3           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215 [OKGE         AES 161KV         300         -0.00027         -0.23286         3           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215 [OKGE         AES 161KV         300         -0.00027         -0.23286         3           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215 [AMEPU         ARES 161KV         300									
WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215 [WERE         UEFFREY ENERGY CENTER 345KV         940         0.01249         -0.24464         2           WERE         ABILENE ENERGY CENTER 115KV         5.999996         -0.35349 [WERE         IBFV - CITY OF MCPHERSON 115KV         65.30176         -0.16334         -0.24464         2           WERE         BPU - CITY OF MCPHERSON 115KV         144.6862         -0.16334 [WERE         JEFFREY ENERGY CENTER 345KV         940         0.01249         -0.17633         3           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215 [WEPL         A. M. MULLERGEN GENERATOR 115KV         63.020566         -0.20489         3           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215 [MEPL         A. M. MULLERGEN GENERATOR 115KV         320         -0.00027         -0.23188         3           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215 [MIPL         ARES 161KV         300         0.00011         -0.23188         3           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215 [MIPL         ARES 161KV         300         0.00111         -0.23381         3           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215 [APCP         M		ADILEINE ENERGY GENTER 115KV		-0.35349	AEPW	WILKES 138KV			
WERE         ABILENE ENERGY CENTER 115KV         5.99996         -0.35349         WERE         IBPU - CITY OF MCPHERSON 115KV         60.50176         -0.16334         -0.19015         3           WERE         BPU - CITY OF MCPHERSON 115KV         148.6892         -0.15334         WERE         19FFREY ENERGY CENTER 345KV         940         -0.17583         3           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.22315         WERE         0.01249         -0.17583         3           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.22315         WERE         20.0         -0.0027         -0.0028         -0.20348         3           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.22315         MERE 1651 NEV         300         0.00111         -0.23382         3           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215         MERE         161KV         300         0.00111         -0.23382         3           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215         MERE         161KV         300         0.00111         -0.23382         3           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215         MERE         169KV         <									
WERE         BPU - CITY OF MCPHERSON 115KV         148.6982         -0.16334 [WERE         UEFRERV ENERGY CENTER 345KV         940         0.01249         -0.17583         3           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215 [WEPL         A.M. MULLERGREN GENERATOR 115KV         63         -0.02666         -0.2049         33           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215 [WEPL         A.M. MULLERGREN GENERATOR 115KV         320         -0.00027         -0.23188         33           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215 [MFU         ARES 161KV         320         -0.00027         -0.23188         33           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215 [MFU         ARES 161KV         300         0.00111         -0.23286         33           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215 [AEPW         ARESNAL HILL 69KV         15         -0.00034         -0.23281         33           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215 [AEPW         ARSENAL HILL 69KV         15         -0.23231         33           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215 [AEPW         ARSENAL HILL 69KV         191		GLAT GENTER JUNCTION 115KV				IDDU. CITY OF MODUFDOON 445KV			
WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215/WEPL         A. M. MULLERGREN GENERATOR 115KV'         63         -0.20569         -0.2318         3           WERE         CLAY CENTER JUNCTION 115KV'         38.1         -0.23215/MEPL         A. M. MULLERGREN GENERATOR 115KV'         320         -0.00027         -0.2318         3           WERE         CLAY CENTER JUNCTION 115KV'         38.1         -0.23215/MEPL         ARIES 161KV'         300         0.00111         -0.2338         3           WERE         CLAY CENTER JUNCTION 115KV'         38.1         -0.23215/AEPW         ARSENAL HILL 69KV'         15         -0.00034         -0.2318         3           WERE         CLAY CENTER JUNCTION 115KV'         38.1         -0.23215/AEPW         ARSENAL HILL 69KV'         15         -0.00034         -0.2318         3           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215/AEPW         ARSURY 161KV'         191         0.00015         -0.2323         3           WERE         CLAY CENTER JUNCTION 115KV'         38.1         -0.23215/AEPE         BULL CREEK 161KV'         308         0.000167         -0.23382         3           WERE         CLAY CENTER JUNCTION 115KV'         38.1         -0.23215/MERE         CUANUCTON 115KV'						DPU - GITY OF MCPHERSON 115KV			
WERE         OLAY CENTER JUNCTION 115KV         38.1         -0.23215[OKGE         AES 161KV         320         -0.00027         -0.23188         3           WERE         CLAY CENTER JUNCTION 115KV'         38.1         -0.23215[MIPU         'ARIES 161KV'         300         0.00111         -0.23326         3           WERE         'CLAY CENTER JUNCTION 115KV'         38.1         -0.23215[AEPW         ARSENAL ILL 69KV'         15         -0.0034         -0.23181         3           WERE         'CLAY CENTER JUNCTION 115KV'         38.1         -0.23215[AEPW         ARSENAL ILL 69KV'         191         0.00015         -0.2381           WERE         'CLAY CENTER JUNCTION 115KV'         38.1         -0.23215[KDDE         ASSURY 161KV'         191         0.0015         -0.2382         3           WERE         'CLAY CENTER JUNCTION 115KV'         38.1         -0.23215[KACP         'BULL CREEK 161KV'         308         0.00167         -0.23382         3           WERE         'CLAY CENTER JUNCTION 115KV'         38.1         -0.23215[KACP         'BULL CREEK 161KV'         308         0.00167         -0.23382         3		DPU - GITT OF MUPHERSON 115KV				JEFFRET ENERGY GENTER 345KV			
WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215 [MIPU         ARIES 161KV         300         0.00111         -0.23326         3           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215 [AEPW         ARSENAL HILL 69KV         15         -0.00034         -0.23215         3           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215 [EMDE         ASBURY 161KY         191         0.00015         -0.2323         3           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215 [EMDE         ASBURY 161KY         191         0.00016         -0.2323         3           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215 [KACP         BULL CREEK 161KV         308         0.00167         -0.23223         3           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215 [KACP         BULL CREEK 161KV         308         0.000167         -0.23222         3		CLAT CENTER JUNCTION 115KV							
WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215 AEPW         'ARSENAL HILL 69KV'         15         -0.00034         -0.23181         3           WERE         'CLAY CENTER JUNCTION 115KV'         38.1         -0.23215 [EMDE         ASBURY 161KV'         191         0.00015         -0.23382         3           WERE         'CLAY CENTER JUNCTION 115KV'         38.1         -0.23215 [KDDE         ASBURY 161KV'         308         0.00167         -0.23382         3           WERE         'CLAY CENTER JUNCTION 115KV'         38.1         -0.23215 [KDCP         'BULL CREEK 161KV'         308         0.00167         -0.23382         3           WERE         'CLAY CENTER JUNCTION 115KV'         38.1         -0.23215 [WERE         'CHANUTE 69KV'         56.723         0.00007         -0.23222         3									
WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215 [MDE         /ASBURY 161KV         191         0.00015         -0.2333         3           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215 [KACP         BULL CREEK 161KV         308         0.00167         -0.23382         3           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215 [KACP         BULL CREEK 161KV         308         0.00167         -0.23382         3           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215 [WERE         CHANUTE 69KV         56.72         0.00007         -0.23222         3		CLAT CENTER JUNCTION 115KV							
WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215 [KACP         IBULL CREEK 161KV         308         0.00167         -0.23382         3           WERE         CLAY CENTER JUNCTION 115KV         38.1         -0.23215 [WERE         'CHANUTE 69KV'         56.723         0.00007         -0.23322         3									
WERE CLAY CENTER JUNCTION 115KV 38.1 -0.23215 WERE CHANUTE 69KV 56.723 0.00007 -0.23222 3	WERE								
							30.723	0.00007	0.20222 3

 IVERE
 CLAY CENTER JUNCTION 115K/r
 38.1
 -0.23215/KACP
 BULL CREEK 161K/r

 WERE
 CLAY CENTER JUNCTION 115K/r
 38.1
 -0.23215/KACP
 BULL CREEK 161K/r

 Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.
 Factor = Source GSF - Sink GSF

 Redispatch Amount = Relief Amount / Factor
 Redispatch Amount = Relief Amount / Factor
 Factor

Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed:	EXIDE JUNCTION - SUMMIT 115KV CKT 1 EXIDE JUNCTION - SUMMIT 115KV CKT 1 To->From NORTH/UEW - SUMMIT 115KV CKT 1 573685738115737157381123085P Starting 2008 6/ - 10/1 Until EOC 2008 Summer Peak	1	1						
Reservation	Relief Amount	Aggregate Relief Amount							
1161506									
1161997			1						
		Maximum		Sink Control		Maximum			Aggregate Redispatch
Source Control Area	Source		GSF	Area	Sink				Amount (MW)
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.23378		'SMOKEY HILLS 34KV'	152	0.08294	-0.31672	
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.23378		'KNOLL 3 115 115KV'	75	0.01717	-0.25095	101
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16251		'SMOKEY HILLS 34KV'	152	0.08294	-0.24545	
WERE	CLAY CENTER JUNCTION 115KV	38.1		WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01113	-0.24491	104
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378		'IATAN 345KV'	396	0.00223	-0.23601	107
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.23378		'JEFFREY ENERGY CENTER 230KV'	470	0.00252	-0.2363	107
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.23378		'ARIES 161KV'	300	0.00062	-0.2344	108
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378		'ASBURY 161KV'	191	0.00001	-0.23379	
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.23378		'BULL CREEK 161KV'	239.0542	0.00117	-0.23495	108
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378		'HAWTHORN 161KV'	769	0.00092	-0.2347	108
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378		'LACYGNE UNIT 345KV'	958	0.00046	-0.23424	108
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.23378		'LAKE ROAD 34KV'	92	0.00116	-0.23494	108
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378		'LANG 7 345 345KV'	310	0.00057	-0.23435	
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.23378		'LARUSSEL 161KV'	116	0	-0.23378	108
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	KACP	'MONTROSE 161KV'	359.0945	0.00061	-0.23439	108

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WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378 KACY	'NEARMAN 161KV'	77	0.001	-0.23478	108
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.23378 KACY	'NEARMAN 20KV'	235	0.001	-0.23478	108
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378 KACY	'QUINDARO 161KV'	118.0639	0.001	-0.23478	108
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378 KACY	'QUINDARO 69KV'	137.1869	0.001	-0.23478	108
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378 EMDE	'RIVERTON 161KV'	195.454	-0.00004	-0.23374	108
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378 EMDE	'RIVERTON 69KV'	44.57413	-0.00004	-0.23374	108
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378 MIPU	SIBLEY 161KV	227.1588	0.00078	-0.23456	108
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378 MIPU	SIBLEY 69KV	45,99999	0.00082	-0.2346	108
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378 MIPU	'SOUTH HARPER 161KV'	175.8544	0.00057	-0.23435	108
WERE	CLAY CENTER JUNCTION 115KV	38.1		'STATE LINE 161KV'	503	-0.00003	-0.23375	108
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378 OKGE	'AES 161KV'	320	-0.00021	-0.23357	100
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.23378 AEPW	'ARSENAL HILL 69KV'	49.21387	-0.00021	-0.23355	109
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.23378 WERE	CHANUTE 69KV	55.637	-0.00009	-0.23369	109 109
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.23378 AEPW	'COGENTRIX 345KV'	865	-0.00032	-0.23346	
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378 AEPW	'COMANCHE 138KV'	160	-0.00098	-0.2328	109
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378 AEPW	COMANCHE 69KV	63	-0.00097	-0.23281	109
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378 AEPW	'EASTMAN 138KV'	155	-0.00025	-0.23353	109
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378 EMDE	'ELK RIVER 345KV'	46	-0.00037	-0.23341	109
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378 WERE	'EVANS ENERGY CENTER 138KV'	305	-0.00077	-0.23301	109
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378 AEPW	'FITZHUGH 161KV'	126	-0.00018	-0.2336	109
WERE	'CLAY CENTER JUNCTION 115KV'	38.1		'FLINT CREEK 161KV'	428	-0.00016	-0.23362	109
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378 WERE	'GILL ENERGY CENTER 138KV'	155	-0.0015	-0.23228	109
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.23378 OKGE	'HORSESHOE LAKE 138KV'	798.498	-0.00062	-0.23316	109
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.23378 AEPW	KNOXLEE 138KV	284	-0.00025	-0.23353	100
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.23378 WERE	'LAWRENCE ENERGY CENTER 230KV'	251.3802	-0.00138	-0.2324	103
WERE					315			103
	CLAY CENTER JUNCTION 115KV	38.1 38.1	-0.23378 AEPW	LEBROCK 345KV		-0.00025	-0.23353	109
WERE	CLAY CENTER JUNCTION 115KV		-0.23378 AEPW	'LIEBERMAN 138KV'	159	-0.00023	-0.23355	
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.23378 OKGE	'MCCLAIN 138KV'	478	-0.00066	-0.23312	109
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.23378 OKGE	MUSKOGEE 345KV	1516	-0.00031	-0.23347	109
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378 OKGE	'MUSTANG 138KV'	365.5	-0.00066	-0.23312	109
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378 OKGE	'MUSTANG 69KV'	106	-0.00066	-0.23312	109
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378 AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00026	-0.23352	109
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378 AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00024	-0.23354	109
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.23378 AEPW	'OEC 345KV'	369	-0.00029	-0.23349	109
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378 OKGE	'OMPA-PONCA CITY 69KV'	82.02393	-0.00062	-0.23316	109
WERE	'CLAY CENTER JUNCTION 115KV'	38.1		'ONE OAK 345KV'	336	-0.00064	-0.23314	109
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378 AEPW	'PIRKEY GENERATION 138KV'	490	-0.00025	-0.23353	109
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.23378 OKGE	'REDBUD 345KV'	250	-0.00058	-0.2332	109
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.23378 AEPW	'RIVERSIDE STATION 138KV'	722	-0.00032	-0.23346	109
WERE	CLAY CENTER JUNCTION 115KV	38.1		'RVRSIDEG13.8 138KV'	172	-0.00032	-0.23346	103
			-0.23378 OKGE					
WERE	CLAY CENTER JUNCTION 115KV	38.1		SEMINOLE 138KV	483.933	-0.00062	-0.23316	109
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378 OKGE	'SEMINOLE 345KV'	996	-0.00061	-0.23317	109
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378 OKGE	'SMITH COGEN 138KV'	120	-0.00066	-0.23312	109
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.23378 OKGE	'SOONER 138KV'	505	-0.00061	-0.23317	109
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378 OKGE	'SOONER 345KV'	513	-0.00062	-0.23316	109
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378 AEPW	'SOUTHWESTERN STATION 138KV'	369	-0.00095	-0.23283	109
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378 AEPW	'TULSA POWER STATION 138KV'	259	-0.00031	-0.23347	109
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378 AEPW	WELEETKA 138KV	84	-0.00043	-0.23335	109
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378 AEPW	WELSH 345KV	1044	-0.00028	-0.2335	109
WERE	'CLAY CENTER JUNCTION 115KV'	38.1		WILKES 138KV	445.2025	-0.00026	-0.23352	109
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378 AEPW	'WILKES 345KV'	311	-0.00026	-0.23352	109
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.23378 WERE	TECUMSEH ENERGY CENTER 115KV	108	-0.00397	-0.22981	110
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378 WEPL	CLIFTON 115KV	65	-0.01181	-0.22197	114
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.23378 WEPL	'GRAY COUNTY WIND FARM 115KV'	100	-0.01079	-0.22299	114
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.23378 WEPL	JUDSON LARGE 115KV	113.5708	-0.01079	-0.22299	114
							-0.22297	
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.16251 WERE	'KNOLL 3 115 115KV'	75	0.01717	-0.17968	141
WERE	'HUTCHINSON ENERGY CENTER 115KV'	340.7092	-0.09457 WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.17751	143
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451 WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.17745	143
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16251 WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01113	-0.17364	146
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16251 KACP	'IATAN 345KV'	396	0.00223	-0.16474	154
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		'JEFFREY ENERGY CENTER 230KV'	470	0.00252	-0.16503	154
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		'ARIES 161KV'	300	0.00062	-0.16313	155
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16251 KACP	'BULL CREEK 161KV'	239.0542	0.00117	-0.16368	155
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16251 KACP	'HAWTHORN 161KV'	769	0.00092	-0.16343	155
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16251 MIPU	'LAKE ROAD 34KV'	92	0.00116	-0.16367	155
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16251 WERE	'LANG 7 345 345KV'	310	0.00057	-0.16308	155
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16251 KACP	'MONTROSE 161KV'	359.0945	0.00061	-0.16312	155
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16251 KACY	'NEARMAN 161KV'	77	0.001	-0.16351	155
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16251 KACY	'NEARMAN 20KV'	235	0.001	-0.16351	155
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16251 KACY	'QUINDARO 161KV'	118.0639	0.001	-0.16351	155
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16251 KACY	QUINDARO 69KV	137.1869	0.001	-0.16351	155
WERE	'BPU - CITY OF MCPHERSON 115KV	259	-0.16251 MIPU	SIBLEY 161KV	227.1588	0.00078	-0.16329	155
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.16251 MIPU	SOUTH HARPER 161KV	175.8544	0.00057	-0.16308	155
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.16251 OKGE	'AES 161KV'	320	-0.00021	-0.1623	156
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16251 EMDE	'ASBURY 161KV'	191	0.00001	-0.16252	156
WERE	BPU - CITY OF MCPHERSON 115KV	259		'CHANUTE 69KV'	55.637	-0.00009	-0.16242	156
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16251 AEPW	COGENTRIX 345KV	865	-0.00032	-0.16219	156
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16251 AEPW	'EASTMAN 138KV'	155	-0.00025	-0.16226	156
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16251 AEPW	'FITZHUGH 161KV'	126	-0.00018	-0.16233	156
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16251 AEPW	'FLINT CREEK 161KV'	428	-0.00016	-0.16235	156
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16251 AEPW	'KNOXLEE 138KV'	284	-0.00025	-0.16226	156
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16251 KACP	'LACYGNE UNIT 345KV'	958	0.00046	-0.16297	156
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.16251 EMDE	'LARUSSEL 161KV'	116	n	-0.16251	156
WERE	BPU - CITY OF MCPHERSON 115KV	259		'LEBROCK 345KV'	315	-0.00025	-0.16226	156
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		'LIEBERMAN 138KV'	159	-0.00023	-0.16228	156
					139	0.00020	0.10220	150
maximum Decrement and Ma	ximum Increment were determine from the Souce and Sink Operat	ing ronits in the	acouy mouels where it	intering recently was identified.				

 WERE
 BPU - CITY OF MCPHERSON 115KV'
 259
 -0.16251 [AEPW
 LIEBERMAN 138KV'

 Maximum Decrement and Maximum Incorement were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.
 Factor = Source GSF - Sink GSF
 Redispatch Amount = Relief Amount / Factor

Limiting Facility: Direction: Line Outage: Flowgate:	EXIDE JUNCTION - SUMMIT 115KV CKT 1 EXIDE JUNCTION - SUMMIT 115KV CKT 1 To-From EAST MCPHERSON (EMCPHR1X) 230/115/13.8KV TRANSF 57368573811EMCPCPHR1X6312306SP Starting 2008 6(1 - 10/1 Unit EOC	FORMER CKT 1							
		Aggregate Relief	1						
Reservation	Relief Amount	Amount							
1161506	1.9	3.6	1						
1161997	1.8	3.6							
		Maximum		Sink Control		Maximum			Aggregate Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28599	WERE	'SMOKEY HILLS 34KV'	152	0.04848	-0.33447	11
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28599		'JEFFREY ENERGY CENTER 345KV'	940	0.0084	-0.29439	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28599	OKGE	'AES 161KV'	320	-0.00021	-0.28578	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28599	MIPU	'ARIES 161KV'	300	0.00095	-0.28694	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28599		'ARSENAL HILL 69KV'	49.21387	-0.00026	-0.28573	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28599	EMDE	'ASBURY 161KV'	191	0.00013	-0.28612	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28599	KACP	'BULL CREEK 161KV'	239.0542	0.00135	-0.28734	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28599	WERE	'CHANUTE 69KV'	55.637	0.00007	-0.28606	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28599	WEPL	'CIMARRON RIVER 115KV'	11.49084	-0.01122	-0.27477	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28599		'CITY OF AUGUSTA 69KV'	24	-0.00052	-0.28547	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28599		'CITY OF BURLINGTON 69KV'	34.061	0.00017	-0.28616	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28599	WERE	'CITY OF ERIE 69KV'	23.374	0.00007	-0.28606	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28599	WERE	'CITY OF GIRARD 69KV'	4.592	0.00013	-0.28612	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28599	KACP	'CITY OF HIGGINSVILLE 69KV'	35	0.00081	-0.2868	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28599	WERE	'CITY OF IOLA 69KV'	24.471	0.00014	-0.28613	13

	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 WERE	'CITY OF MULVANE 69KV'	8.29	-0.00086	-0.28513	40
WERE	BPU - CITY OF MCPHERSON 115KV BPU - CITY OF MCPHERSON 115KV	259 -0.28599 WERE 259 -0.28599 WERE	CITY OF MULVANE 69KV	4.495		-0.28513	13
					-0.00004	0.20000	
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28599 WERE	CITY OF WINFIELD 69KV	26.77	-0.00071	-0.28528	13
WERE WERE	'BPU - CITY OF MCPHERSON 115KV' 'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 WEPL 259 -0.28599 WERE	CLIFTON 115KV CLR 1 575 34KV	23.001	-0.00634	-0.27965 -0.28578	13
						0.200.0	
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28599 WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.98	0.00017	-0.28616	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 AEPW	COGENTRIX 345KV	865	-0.00032	-0.28567	13
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28599 AEPW	COMANCHE 138KV	160	-0.00123	-0.28476	13
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28599 AEPW	COMANCHE 69KV	63	-0.00122	-0.28477	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 AEPW	'EASTMAN 138KV'	155	-0.00029	-0.2857	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 EMDE	'ELK RIVER 345KV'	46	-0.00021	-0.28578	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 WERE	'EVANS ENERGY CENTER 138KV'	305	-0.00064	-0.28535	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 AEPW	'FITZHUGH 161KV'	126	-0.00018	-0.28581	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 AEPW	'FLINT CREEK 161KV'	428	-0.00012	-0.28587	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 AEPW	'FULTON 115KV'	24.99999	-0.00027	-0.28572	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 WERE	'GILL ENERGY CENTER 138KV'	155	-0.00154	-0.28445	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 WEPL	'GRAY COUNTY WIND FARM 115KV'	100	-0.01416	-0.27183	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 KACP	'HAWTHORN 161KV'	769	0.00112	-0.28711	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 OKGE	'HORSESHOE LAKE 138KV'	798.498	-0.00071	-0.28528	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 OKGE	'HORSESHOE LAKE 69KV'	16	-0.0007	-0.28529	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 KACP	'IATAN 345KV'	396	0.00209	-0.28808	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00366	-0.28965	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 WEPL	JUDSON LARGE 115KV	113.5708	-0.01418	-0.27181	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 WERE	'KNOLL 3 115 115KV'	75	0.00414	-0.29013	13
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28599 AEPW	'KNOXLEE 138KV'	284	-0.00028	-0.28571	13
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28599 AEPW	'L&D13 69KV'	11	-0.0002	-0.28579	13
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28599 KACP	'LACYGNE UNIT 345KV'	958	0.00076	-0.28675	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 MIPU	LAKE ROAD 161KV	35	0.00116	-0.28715	13
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28599 MIPU	LAKE ROAD 34KV	92	0.00116	-0.28715	13
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28599 WERE	'LANG 7 345 345KV'	310	0.00113	-0.28712	13
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28599 EMDE	'LARUSSEL 161KV'	116	0.0001	-0.28609	13
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28599 WERE	'LAWRENCE ENERGY CENTER 230KV'	251.3802	0.00051	-0.2865	13
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28599 AEPW	LEBROCK 345KV	315	-0.00029	-0.2857	13
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28599 AEPW 259 -0.28599 AEPW	LIEBERMAN 138KV	159	-0.00029	-0.28573	13
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28599 AEPW 259 -0.28599 OKGE	MCCLAIN 138KV	478	-0.00026	-0.28523	13
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28599 KACP	MONTROSE 161KV	359.0945	0.00087	-0.28686	13
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28599 OKGE	'MUSKOGEE 345KV'	1516	-0.00031	-0.28568	13
WERE	BPU - CITY OF MCPHERSON 115KV			365.5		-0.28523	13
WERE	BPU - CITY OF MCPHERSON 115KV BPU - CITY OF MCPHERSON 115KV		MUSTANG 138KV		-0.00076	-0.28523	
WERE	BPU - CITY OF MCPHERSON 115KV BPU - CITY OF MCPHERSON 115KV		'MUSTANG 69KV' 'NARROWS 69KV'	106	-0.00076	-0.28523	13
	BPU - CITY OF MCPHERSON 115KV BPU - CITY OF MCPHERSON 115KV		NARROWS 69KV	77	-0.00036	-0.28563	13
WERE							
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 KACY	'NEARMAN 20KV'	235	0.00125	-0.28724	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00022	-0.28577	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00019	-0.2858	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 AEPW	'OEC 345KV'	369	-0.00028	-0.28571	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 OKGE	'OMPA-KAW 69KV'	19.7	-0.00063	-0.28536	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 OKGE	'OMPA-PONCA CITY 69KV'	82.02393	-0.00063	-0.28536	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 OKGE	'ONE OAK 345KV'	336	-0.00072	-0.28527	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 EMDE	'OZARK BEACH 161KV'	16	0.00007	-0.28606	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 AEPW	'PIRKEY GENERATION 138KV'	490	-0.00028	-0.28571	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 KACY	'QUINDARO 161KV'	118.0639	0.00124	-0.28723	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 KACY	'QUINDARO 69KV'	137.1869	0.00124	-0.28723	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 OKGE	'REDBUD 345KV'	250	-0.00066	-0.28533	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 AEPW	'RIVERSIDE STATION 138KV'	722	-0.00032	-0.28567	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 EMDE	'RIVERTON 161KV'	195.454	0.00006	-0.28605	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 EMDE	'RIVERTON 69KV'	44.57413	0.00006	-0.28605	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 AEPW	'RVRSIDEG13.8 138KV'	172	-0.00032	-0.28567	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 OKGE	SEMINOLE 138KV	483.933	-0.00071	-0.28528	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.28599 OKGE	SEMINOLE 345KV	996	-0.0007	-0.28529	13
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28599 MIPU	SIBLEY 161KV	227.1588	0.001	-0.28699	13
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28599 MIPU	SIBLEY 69KV	45,99999	0.00103	-0.28702	13
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28599 OKGE	'SMITH COGEN 138KV'	120	-0.00076	-0.28523	13
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28599 OKGE	SOONER 138KV	505	-0.00064	-0.28535	13
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28599 OKGE	SOONER 345KV	513	-0.00067	-0.28532	13
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28599 MIPU	SOUTH HARPER 161KV	175.8544	0.00096	-0.28695	13
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28599 AEPW	SOUTHWESTERN STATION 138KV	369	-0.0012	-0.28479	13
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28599 EMDE	STATE LINE 161KV	503	0.00012	-0.28606	13
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28599 WERE	TECUMSEH ENERGY CENTER 115KV	108	-0.00075	-0.28524	13
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28599 WERE 259 -0.28599 AEPW	TULSA POWER STATION 138KV	259	-0.00075	-0.28568	13
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28599 AEPW 259 -0.28599 WERE	WACO 138KV	17.967	-0.00031	-0.28566	13
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28599 WERE 259 -0.28599 AEPW	WACO ISBNV WELEETKA 138KV	84	-0.00145	-0.28552	13
WERE	BPU - CITY OF MCPHERSON 115KV BPU - CITY OF MCPHERSON 115KV	259 -0.28599 AEPW 259 -0.28599 AEPW	WELEETKA 138KV WELSH 345KV	84 1044	-0.00047	-0.28552	13
	BPU - CITY OF MCPHERSON 115KV BPU - CITY OF MCPHERSON 115KV	259 -0.28599 AEPW 259 -0.28599 AEPW				-0.28567	13
WERE	BPU - CITY OF MCPHERSON 115KV BPU - CITY OF MCPHERSON 115KV	259 -0.28599 AEPW 259 -0.28599 AEPW	WILKES 138KV' WILKES 345KV'	445.2025	-0.00029	-0.2857	13
WERE	BPU - CITY OF MCPHERSON 115KV BPU - CITY OF MCPHERSON 115KV	259 -0.28599 AEPW 259 -0.28599 WEPL	A. M. MULLERGREN GENERATOR 115KV	63	-0.00029	-0.2857	13
				152		-0.26501	14
WERE	ABILENE ENERGY CENTER 115KV		SMOKEY HILLS 34KV		0.04848		
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.28599 WERE	'HUTCHINSON ENERGY CENTER 115KV'	155.2908	-0.11056	-0.17543	21
WERE	CLAY CENTER JUNCTION 115KV	38.1 -0.11842 WERE	SMOKEY HILLS 34KV	152	0.04848	-0.1669	22
WERE	'HUTCHINSON ENERGY CENTER 115KV'	340.7092 -0.11056 WERE	SMOKEY HILLS 34KV	152	0.04848	-0.15904	23
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67 -0.1105 WERE	SMOKEY HILLS 34KV	152	0.04848	-0.15898	23
WERE	CLAY CENTER JUNCTION 115KV	38.1 -0.11842 WERE	JEFFREY ENERGY CENTER 345KV	940	0.0084	-0.12682	29
WERE	'CLAY CENTER JUNCTION 115KV'	38.1 -0.11842 KACP	'BULL CREEK 161KV'	239.0542	0.00135	-0.11977	30
	CLAY CENTER JUNCTION 115KV	38.1 -0.11842 KACP	'IATAN 345KV'	396	0.00209	-0.12051	30
WERE						0 12209	30
WERE	CLAY CENTER JUNCTION 115KV	38.1 -0.11842 WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00366	-0.12208	
WERE WERE WERE		38.1 -0.11842 WERE	'KNOLL 3 115 115KV'	470	0.00366	-0.12208	30

Upgrade: Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed:	HOBBS 115 KV Lines LEA COUNTY INTERCHANGE 230/115KV TRANSFORMER From-5To CUNNINGHAM STATION - LEA COUNTY INTERCHANGE 2: 522045220515220514407FA Starting 2007 10/1 - 12/1 Unit EOC of Upgrade								
Season Flowgate Identified:	2007 Fall Peak								
		Aggregate Relief							
Reservation	Relief Amount	Amount							
1162675	15.7	15.7		1					
				Sink					Aggregate
		Maximum		Control	a	Maximum			Redispatch
Source Control Area	Source		GSF	Area	Sink				Amount (MW)
SPS	'MADOX 115KV'	169.4	-0.32247		'MUSTANG 230KV'	160	0.0418	-0.36427	
SPS	'MADOX 115KV'	169.4			'MUSTG5 118.0 230KV'	50	0.0418	-0.36427	
SPS	'MADOX 115KV'	169.4	-0.32247		JONES 230KV	471.8014	0.0177	-0.34017	
SPS	'MADOX 115KV'	169.4			'LP-MACK2 69KV'	60	0.01574	-0.33821	47
SPS	CUNNINGHAM 115KV	181	-0.28187		'MUSTANG 230KV'	160	0.0418	-0.32367	49
SPS	CUNNINGHAM 115KV	181	-0.28187		'MUSTG5 118.0 230KV'	50	0.0418	-0.32367	49
SPS	'MADOX 115KV'	169.4	-0.32247		'AEP-CT0113.8 161KV'	85	0.00011	-0.32258	49
SPS	'MADOX 115KV'	169.4	-0.32247		'AEP-CT0213.8 161KV'	85	0.00011	-0.32258	
SPS	'MADOX 115KV'	169.4	-0.32247		'AEP-CT0313.8 161KV'	85	0.00011	-0.32258	49
SPS	'MADOX 115KV'	169.4	-0.32247		'AEP-CT0413.8 161KV'	65	0.00011	-0.32258	49
SPS	'MADOX 115KV'	169.4	-0.32247	SPS	'BLACKHAWK 115KV'	220	-0.00382	-0.31865	49
SPS	'MADOX 115KV'	169.4	-0.32247	AEPW	'COGENTRIX 345KV'	200	0.00018	-0.32265	49
SPS	'MADOX 115KV'	169.4	-0.32247	AEPW	COMANCHE 138KV	160	0.00079	-0.32326	49
SPS	'MADOX 115KV'	169.4	-0.32247	AEPW	'COMANCHE 69KV'	63	0.00069	-0.32316	49
SPS	'MADOX 115KV'	169.4	-0.32247	SPS	'CZ 69KV'	35	-0.00349	-0.31898	49
SPS	'MADOX 115KV'	169.4	-0.32247	AEPW	'EASTMAN 138KV'	355	0.00017	-0.32264	49

	'MADOX 115KV'	169.4	-0.32247 AEPW	'FITZHUGH 161KV'	92	0.00011 -0.32258
SPS	'MADOX 115KV'	169.4	-0.32247 AEPW	'FLINT CREEK 161KV'	400	0.0001 -0.32257
SPS	'MADOX 115KV'	169.4	-0.32247 WEPL	'GRAY COUNTY WIND FARM 115KV'	36	-0.00142 -0.32105
SPS	'MADOX 115KV'	169.4	-0.32247 SPS	'HARRINGTON 230KV'	1066	-0.00386 -0.31861
SPS	'MADOX 115KV'	169.4	-0.32247 SUNC	'HOLCOMB 115KV'	267.3966	-0.00179 -0.32068
SPS	'MADOX 115KV'	169.4	-0.32247 WEPL	JUDSON LARGE 115KV	44.11735	-0.00142 -0.32105
SPS	'MADOX 115KV'	169.4	-0.32247 AEPW	'LEBROCK 345KV'	515	0.00017 -0.32264
SPS	'MADOX 115KV'	169.4	-0.32247 AEPW	'NORTHEASTERN STATION 138KV'	113	0.00014 -0.32261
SPS	'MADOX 115KV'	169.4	-0.32247 AEPW	'NORTHEASTERN STATION 345KV'	550	0.00013 -0.3226
SPS	'MADOX 115KV'	169.4	-0.32247 AEPW	OEC 345KV	269	0.00017 -0.32264
SPS	MADOX 115KV	169.4	-0.32247 AEPW	PIRKEY GENERATION 138KV	440	0.00017 -0.32264
SPS	MADOX 115KV	169.4	-0.32247 AEPW	SLEEPING BEAR 138KV	440	
SPS	MADOX 115KV	169.4	-0.32247 AEPW	SOUTHWESTERN STATION 138KV	29	0.00035 -0.32282
SPS	'MADOX 115KV'	169.4	-0.32247 SPS	'STEER WATER 115KV'	23	-0.00364 -0.31883
SPS	'MADOX 115KV'	169.4	-0.32247 AEPW	'WEATHERFORD 34KV'	148	-0.00026 -0.32221
SPS	'MADOX 115KV'	169.4	-0.32247 AEPW	WELSH 345KV	990	0.00019 -0.32266
SPS	'MADOX 115KV'	169.4	-0.32247 SPS	WILWIND 230KV	46.08	-0.00537 -0.3171
SPS	'MADOX 115KV'	169.4	-0.32247 SPS	'TOLK 230KV'	1033.924	-0.01328 -0.30919
SPS	CUNNINGHAM 115KV	181	-0.28187 SPS	JONES 230KV	471.8014	0.0177 -0.29957
SPS	CUNNINGHAM 115KV	181	-0.28187 SPS	'LP-MACK2 69KV'	60	0.01574 -0.29761
SPS	'MADOX 115KV'	169.4	-0.32247 SPS	'CAPROCK 115KV'	23	-0.02658 -0.29589
SPS	CUNNINGHAM 115KV	181	-0.28187 AEPW	'AEP-CT0113.8 161KV'	85	0.00011 -0.28198
SPS	CUNNINGHAM 115KV	181	-0.28187 AEPW	'AEP-CT0213.8 161KV'	85	0.00011 -0.28198
PS	CUNNINGHAM 115KV	181	-0.28187 AEPW	'AEP-CT0313.8 161KV'	85	0.00011 -0.28198
PS	CUNNINGHAM 115KV	181	-0.28187 AEPW	'AEP-CT0413.8 161KV'	65	0.00011 -0.28198
iPS	CUNNINGHAM 115KV	181	-0.28187 AEPW	COGENTRIX 345KV	200	0.00018 -0.28205
iPS	CUNNINGHAM 115KV	181	-0.28187 AEPW	COMANCHE 138KV	160	0.00079 -0.28266
PS	CUNNINGHAM 115KV	181	-0.28187 AEPW	COMANCHE 69KV	63	0.00069 -0.28256
PS	CUNNINGHAM 115KV	181	-0.28187 AEPW	EASTMAN 138KV	355	0.00017 -0.28204
PS	CUNNINGHAM 115KV	181	-0.28187 AEPW	'FITZHUGH 161KV'	355	0.00017 -0.28204
SPS	CUNNINGHAM 115KV CUNNINGHAM 115KV			FITZHUGH 161KV	400	
iPS iPS	CUNNINGHAM 115KV CUNNINGHAM 115KV	181		GRAY COUNTY WIND FARM 115KV	400	0.0001 -0.28197 -0.00142 -0.28045
PS	CUNNINGHAM 115KV	181	-0.28187 SUNC	'HOLCOMB 115KV'	267.3966	-0.00179 -0.28008
PS	CUNNINGHAM 115KV	181	-0.28187 WEPL	'JUDSON LARGE 115KV'	44.11735	-0.00142 -0.28045
PS	CUNNINGHAM 115KV	181	-0.28187 AEPW	'LEBROCK 345KV'	515	0.00017 -0.28204
iPS	CUNNINGHAM 115KV	181	-0.28187 AEPW	'NORTHEASTERN STATION 138KV'	113	0.00014 -0.28201
iPS	CUNNINGHAM 115KV	181	-0.28187 AEPW	'NORTHEASTERN STATION 345KV'	550	0.00013 -0.282
PS	CUNNINGHAM 115KV	181	-0.28187 AEPW	'OEC 345KV'	269	0.00017 -0.28204
PS	CUNNINGHAM 115KV	181	-0.28187 AEPW	'PIRKEY GENERATION 138KV'	440	0.00017 -0.28204
PS	CUNNINGHAM 115KV	181	-0.28187 AEPW	'SLEEPING BEAR 138KV'	80	-0.00007 -0.2818
PS	CUNNINGHAM 115KV	181	-0.28187 AEPW	'SOUTHWESTERN STATION 138KV'	29	0.00035 -0.28222
PS	CUNNINGHAM 115KV	181	-0.28187 AEPW	WEATHERFORD 34KV	148	-0.00026 -0.28161
SPS	CUNNINGHAM 115KV	181	-0.28187 AEPW	WELSH 345KV	990	0.00019 -0.28206
PS	'MADOX 115KV'	169.4	-0.32247 SPS	'MUSTANG 115KV'	300	-0.04357 -0.2789
SPS	CUNNINGHAM 115KV	181	-0.28187 SPS	BLACKHAWK 115KV	220	-0.00382 -0.27805
SPS	CUNNINGHAM 115KV	181	-0.28187 SPS	'CZ 69KV'	35	-0.00349 -0.27838
SPS	CUNNINGHAM 115KV	181	-0.28187 SPS	'HARRINGTON 230KV'	1066	-0.00386 -0.27801
SPS	CUNNINGHAM 115KV	181	-0.28187 SPS	'STEER WATER 115KV'	23	-0.00364 -0.27823
SPS	CUNNINGHAM 115KV	181	-0.28187 SPS	WILWIND 230KV	46.08	-0.00537 -0.2765
SPS	CUNNINGHAM 115KV	181	-0.28187 SPS	TOLK 230KV'	1033.924	-0.01328 -0.26859
SPS	'MADOX 115KV'	169.4	-0.32247 SPS	'SAN JUAN 230KV'	35	-0.06527 -0.2572
SPS	CUNNINGHAM 115KV	181	-0.28187 SPS	CAPROCK 115KV	23	-0.02658 -0.25529
	CUNNINGHAM 230KV			CAFROCK TISKV	160	
PS	CUNNINGHAM 230KV	306 306	-0.21018 SPS	MUSTANG 230KV' MUSTG5 118.0 230KV'	50	0.0418 -0.25198
SPS	CUNNINGHAM 135KV	181	-0.21018 SPS -0.28187 SPS	MUSTANG 115KV'	300	-0.04357 -0.2383
PS	CUNNINGHAM 230KV	306	-0.21018 SPS	JONES 230KV	471.8014	0.0177 -0.22788
PS	CUNNINGHAM 230KV	306	-0.21018 SPS	'LP-MACK2 69KV'	60	0.01574 -0.22592
PS	CUNNINGHAM 115KV	181	-0.28187 SPS	'SAN JUAN 230KV'	35	-0.06527 -0.2166
PS	CUNNINGHAM 230KV	306	-0.21018 AEPW	'AEP-CT0113.8 161KV'	85	0.00011 -0.21029
PS	CUNNINGHAM 230KV	306	-0.21018 AEPW	'AEP-CT0213.8 161KV'	85	0.00011 -0.21029
PS	CUNNINGHAM 230KV	306	-0.21018 AEPW	'AEP-CT0313.8 161KV'	85	0.00011 -0.21029
iPS	CUNNINGHAM 230KV	306	-0.21018 AEPW	'AEP-CT0413.8 161KV'	65	0.00011 -0.21029
PS	CUNNINGHAM 230KV	306	-0.21018 AEPW	COGENTRIX 345KV	200	0.00018 -0.21036
PS	CUNNINGHAM 230KV	306	-0.21018 AEPW	'COMANCHE 138KV'	160	0.00079 -0.21097
PS	CUNNINGHAM 230KV	306	-0.21018 AEPW	COMANCHE 69KV	63	0.00069 -0.21087
PS	CUNNINGHAM 230KV	306	-0.21018 AEPW	'EASTMAN 138KV'	355	0.00017 -0.21035
PS	CUNNINGHAM 230KV	306	-0.21018 AEPW	'FITZHUGH 161KV'	92	0.00011 -0.21029
PS	CUNNINGHAM 230KV	306	-0.21018 AEPW	'FLINT CREEK 161KV'	400	0.0001 -0.21028
PS	CUNNINGHAM 230KV	306	-0.21018 WEPL	'GRAY COUNTY WIND FARM 115KV'	36	-0.00142 -0.20876
PS	CUNNINGHAM 230KV	306	-0.21018 WEPL	JUDSON LARGE 115KV	44.11735	-0.00142 -0.20876
PS	CUNNINGHAM 230KV	306	-0.21018 AEPW	'LEBROCK 345KV'	515	0.00017 -0.21035
PS	CUNNINGHAM 230KV	306	-0.21018 AEPW	NORTHEASTERN STATION 138KV	113	0.00014 -0.21033
PS	CUNNINGHAM 230KV	306	-0.21018 AEPW	NORTHEASTERN STATION 136KV	550	0.00013 -0.21032
PS	CUNNINGHAM 230KV CUNNINGHAM 230KV	306	-0.21018 AEPW	OEC 345KV	269	0.00013 -0.21031
PS PS	CUNNINGHAM 230KV CUNNINGHAM 230KV	306	-0.21018 AEPW	PIRKEY GENERATION 138KV	269	0.00017 -0.21035
PS	CUNNINGHAM 230KV	306		SLEEPING BEAR 138KV	80	
PS	CUNNINGHAM 230KV	306	-0.21018 AEPW	SOUTHWESTERN STATION 138KV	29	0.00035 -0.21053
PS	CUNNINGHAM 230KV	306	-0.21018 AEPW	WEATHERFORD 34KV	148	-0.00026 -0.20992
PS	CUNNINGHAM 230KV	306	-0.21018 AEPW	WELSH 345KV	990	0.00019 -0.21037
	CUNNINGHAM 230KV	306	-0.21018 SPS	'BLACKHAWK 115KV'	220	-0.00382 -0.20636
	CUNNINGHAM 230KV	306	-0.21018 SPS	'CZ 69KV'	35	-0.00349 -0.20669
PS			-0.21018 SPS	'HARRINGTON 230KV'	1066	-0.00386 -0.20632
PS PS	CUNNINGHAM 230KV	306				
PS PS		306	-0.21018 SUNC	'HOLCOMB 115KV'	267.3966	-0.00179 -0.20839
PS PS PS PS PS	CUNNINGHAM 230KV	306 306	-0.21018 SUNC -0.21018 SPS	HOLCOMB 115KV WILWIND 230KV	267.3966 46.08	

Redispat	tch	Am	ount =	Relief	Amount /	Factor

	HOBBS 115 KV Lines								
	CUNNINGHAM STATION 230/115KV TRANSFORMER CKT	1							
	From->To								
	LEA COUNTY INTERCHANGE 230/115KV TRANSFORMER	CKT 1							
	52208522091522055220413407WP								
	12/1/07 - 4/1/08								
Season Flowgate Identified:	2007 Winter Peak		-						
		Aggregate Relief							
	Relief Amount	Amount							
1162675	i 1.2	1.2							
				Sink					Aggregate
		Maximum		Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
SPS	CUNNINGHAM 115KV	181	-0.42742		CUNNINGHAM 230KV	196	0.16594	-0.59336	2
SPS	'MADOX 115KV'	169.4			CUNNINGHAM 230KV	196	0.16594	-0.57	2
SPS	CUNNINGHAM 115KV	181	-0.42742	SPS	'BLACKHAWK 115KV'	220	0.00145	-0.42887	3
SPS	CUNNINGHAM 115KV	181	-0.42742		'CAPROCK 115KV'	24	0.01059		3
SPS	CUNNINGHAM 115KV	181	-0.42742	SUNC	'CITY OF GOODLAND 115KV'	5.5	0.00054	-0.42796	3
SPS	CUNNINGHAM 115KV	181	-0.42742	SUNC	CITY OF HUGOTON 69KV	3.9	0.00064	-0.42806	3
SPS	CUNNINGHAM 115KV	181	-0.42742	AEPW	'COGENTRIX 345KV'	300	-0.00007	-0.42735	3
SPS	CUNNINGHAM 115KV	181	-0.42742	AEPW	COMANCHE 138KV	160	-0.0003	-0.42712	3
SPS	CUNNINGHAM 115KV	181	-0.42742	AEPW	COMANCHE 69KV	63	-0.00026	-0.42716	3
SPS	CUNNINGHAM 115KV	181	-0.42742	SPS	'CZ 69KV'	35	0.00132	-0.42874	3
SPS	CUNNINGHAM 115KV	181	-0.42742	AEPW	'EASTMAN 138KV'	355	-0.00006	-0.42736	3
SPS	CUNNINGHAM 115KV	181	-0.42742		'FITZHUGH 161KV'	75.99999	-0.00004	-0.42738	3
SPS	CUNNINGHAM 115KV	181	-0.42742	AEPW	'FLINT CREEK 161KV'	400	-0.00004	-0.42738	3
SPS	CUNNINGHAM 115KV	181	-0.42742		'GARDEN CITY 115KV'	14.5647	0.00068	-0.4281	3
SPS	CUNNINGHAM 115KV	181	-0.42742	WEPL	'GRAY COUNTY WIND FARM 115KV'	36	0.00054	-0.42796	3
SPS	CUNNINGHAM 115KV	181	-0.42742	SPS	'HARRINGTON 230KV'	1066	0.00146	-0.42888	3
SPS	CUNNINGHAM 115KV	181	-0.42742	SUNC	'HOLCOMB 115KV'	267.7051	0.00068	-0.4281	3

	SPS	CUNNINGHAM 115KV	181	-0.42742 SPS	'HUBRCO2 69KV'	5	0.00145 -0.42887	3
PP         CLANDING 1150/         10         4.252 (PPL)         MOCULARY 1150/         4.66 (S)         0.000         6.277 (PPL)           P2         CLANDING 1150/         10         4.027 (PPL)         100 (LANDING)         10         4.000 (LANDING)           P3         CLANDING 1150/         10         4.072 (PPL)         100 (LANDING)         10         4.000 (LANDING)           P3         CLANDING 1150/         10         4.072 (PPL)         100 (LANDING)         10         4.072 (PPL)           P3         CLANDING 1150/         10         4.072 (PPL)         100 (LANDING)         10         4.072 (PPL)           P3         CLANDING 1150/         10         4.072 (PPL)         100 (LANDING)         10         4.072 (PPL)           P3         CLANDING 1150/         10         4.072 (PPL)         100 (LANDING)         100 (LANDING) <td>SPS</td> <td>CUNNINGHAM 115KV</td> <td></td> <td>-0.42742 SPS</td> <td></td> <td>222 2087</td> <td></td> <td>3</td>	SPS	CUNNINGHAM 115KV		-0.42742 SPS		222 2087		3
								3
BP         DUNNEQUA TISY         111         4.000								3
BD         Constrained in Sec.         Constre Sec.         Constrained								3
Pho         Construction								3
BD         DBMRGMU 116V         111         4.202 [12]         LAMONG SEV         1.2         6.202 [12]         4.201 [12]           PR         CONNEGMU 116V         101         6.272 [12]         1.200 [12]						4		3
BP         OWNERSMUTTERY         101         2072         OWNERSMUTTERY         101         2072           PD         CUNNEGNUTTERY         101         2472         CUNNEGNUTTERY         000         2477         3           PD         CUNNEGNUTTERY         101         2472         PT         CUNNEGNUTTERY         101			181			60		3
BP         CLAMPORT         B1         2.472 (MS         Martine State         State         D <thd< th=""> <thd< th=""> <thd< th=""> <t< td=""><td>SPS</td><td></td><td></td><td></td><td>'MUSTANG 230KV'</td><td></td><td></td><td>3</td></t<></thd<></thd<></thd<>	SPS				'MUSTANG 230KV'			3
Sp.         Dummersky lisy         III         dec Sp. Perform         Nether Spectra Risk TURK         Mode         dec Sp.         de	SPS				'MUSTG5 118.0 230KV'		-0.02888 -0.39854	3
PP         CUMMICSUI 112Y         151         4.772         151         4.772         151           P2         CUMMICSUI 112Y         151         4.272         151         4.272         151           P3         CUMMICSUI 112Y         151         4.272         157         4.4001         4.001         4.072         151           P3         CUMMICSUI 112Y         151         4.272         157         150         4.001         4.001         4.072         151           P3         CUMMICSUI 112Y         151         4.272         157         150         1						208		3
Space         Consequent Inty         101         6.472         Pace         Consequent Inty         101         6.472         Pace           Space         Consequent Inty         161         6.472         Pace         1.44         0.5007         6.472         Pace           Space         Consequent Inty         161         6.472         Pace         1.44         0.5007         6.472         Pace           Space         Consequent Inty         161         6.472         Pace         1.44         0.5007         6.472         Pace           Space         Consequent Inty         161         6.472         Pace         1.44         0.5007         6.472         Pace           Space         Consequent Inty         161         6.472         Pace         1.54         0.5007         6.472         Pace         0.5007         6.472         Pace         1.54         0.5007         6.477         Pace         0.5007         6.477         Pace         0.5007         6.477         Pace         Pace         0.5007         6.477         Pace         Pace         0.5007         6.477         Pace         Pace         0.5007         6.477         Pace         Pace         0.5007         6.477         Pa								3
PP         Description         Init         Acta         Description         Acta         Description           P2         CLAMPSCIAL INFX         Init         Acta         Description								3
PR         CUMMAGNAL         Text         Text        <								3
Span         CLAMAD244         HEV         111         4772 (PP         SPA LAM 250V         111         4572 (PP         111					'RIVERSIDE STATION 138KV'	14.00001		3
PS         CLAMPORTANI 160/         111         4.472 (2)F         2000-180/         141         6.400         4.4000         4.400         4.4000 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3</td>								3
BP         COMMUNANT 190V         10         4.420 (APV         DUMNEST PRIVATION 198V         20         4.000 (APV         4.200 (APV								3
BP         COMMUNANT 190V         10         4.420 (APV         DUMNEST PRIVATION 198V         20         4.000 (APV         4.200 (APV	SPS	CUNNINGHAM 115KV	181	-0.42742 AEPW	SLEEPING BEAR 138KV	80	0.00003 -0.42745	3
BR         COMPRISANT 1957         161         6475 [BP]         102.887         102.881         6382         3           DP         CUMMICAL 1957         161         6477 [PP]         102.897         103         100	SPS				SOUTHWESTERN STATION 138KV			3
BP         COMPREMNANT HSV         118         4 4272 (SP         TOX, 2007         102 551         0.000         4.000<	SPS	CUNNINGHAM 115KV	181	-0.42742 SPS	'STEER WATER 115KV'	24	0.00137 -0.42879	3
B*         CUMMBRIAN 1190/         116         4.427(2),4297         WLITER/050,2407         126         4.427(2),4297         WLITER/050,2407         126         4.427(2),4297         126         126         4.427(2),4297         WLITER/050,2407         126         4.427(2),4297         126         126         4.427(2),4297         WLITER/050,2407         126         4.428(2),428         126         126         4.428(2),428         126         126         4.428(2),428         126	SPS		181			1032.659		3
BPS         Clumbiguity 1180/         18         4.272.6 (APM         WELD 1560/         OPTION         4.000         4.		CUNNINGHAM 115KV						3
BPS         CUMNIGNAL 118V         18         0.4272 (JEPW         WLDES 138V         61 (JPR S 0.0007)         0.4278         0.33           BPS         DUMNIGNAL 118V         18         0.4271 (JPW         18         0.4281 (JPW         18         0.42					WELSH 345KV			3
BR         CLANNIGHAM 1180/         18         0.42726/26/97         WLRES 5480/         0.7000         0.0000         0.0000         0.4278         13           BR         LUMOS 1180/         184         0.4200 (197)         184         0.1000         0.4000         0								3
BR         DUNNGENAL 118V         181         0.6722         VIL.NUN 280V         1.64         0.602         0.6036         0.6037         0.6036         0.6037         0.6					WILKES 345KV			3
BPS         MADD: 115/V         TER.4	SPS	CUNNINGHAM 115KV		-0.42742 SPS	WILWIND 230KV	48	0.00206 -0.42948	3
SR         MADD: 115V         116V         -0.0008         CARPOCK 115V         0.21         0.0008         0.44486           SR         MADD: 115V         1164         -0.4008         DATE         0.0008         -0.4008         0.0008         -		'MADOX 115KV'			'BLACKHAWK 115KV'			3
BYS         MMOX 115V         154         -0.4048 [JMC         CITY OF SOCIAMAD 115V         55         0.0054         -0.4048         -0.33           SPS         MADX 115V         1934         -0.4048 [JEW         CITY OF SOCIAMAD         1931         -0.4048         193           SPS         MADX 115V         1934         -0.4048 [JEW         CDAMACHE SNV         193         -0.003         -0.4038         3           SPS         MADX 115V         1934         -0.4048 [JEW         CDAMACHE SNV         193         -0.0038         -0.4038         3           SPS         MADX 115V         1934         -0.4048 [JEW         CDAMACHE SNV         1936         -0.0038         -0.4038         3           SPS         MADX 115V         1934         -0.4048 [JEW         CAMACHE SNV         1936         -0.4048 [JEW         1938         -0.4048 [							0.01059 -0.41465	3
SPS         MADOX 118V7         168/4         -0.4088 [SUNC         CPT OF MODE REV         3.3         0.0084         -0.407           SPS         MADOX 118V7         168/4         -0.4088 [APW         50         0.0007         -0.4098         -0.0008         -0.4098         -0.0008         -0.4098         -0.0008         -0.4098         -0.0008         -0.4098         -0.0008         -0.4098         -0.0008         -0.4098         -0.0008         -0.4098         -0.0008         -0.4098         -0.0008         -0.4098         -0.0008         -0.4098         -0.0008         -0.4098         -0.0008         -0.4098         -0.0008         -0.4098         -0.0008         -0.4098         -0.0008         -0.4098         -0.0008         -0.4098         -					CITY OF GOODLAND 115KV			3
B/S         MMDX         HSV         -0.4408         LPW         CORE-HTER VSK         -0.00         -0.000         -0.4000 <td></td> <td></td> <td>169.4</td> <td>-0.40406 SUNC</td> <td></td> <td></td> <td>0.00064 -0.4047</td> <td>3</td>			169.4	-0.40406 SUNC			0.00064 -0.4047	3
BYS         MADOX 11SV/         189.4         -0.4008 (RPW         189         0.0001         -0.0001								3
SPS         MADOX 116V/         169.4         -0.4048         SPV         COMMAND         0.61         -0.0008				-0.40406 AEPW				3
BYS       MADOX 11SV/       169.4       -0.4008 [BPS       C2 (BV/V)       35       0.0013       -0.4008       33         SYS       MADOX 11SV/       169.4       -0.4008 [BPS       C2 (BV/V)       75.00       -0.0006       -0.400       33         SYS       MADOX 11SV/       169.4       -0.4008 [APV       115.1       54.00       -0.0006       -0.400       -0.4008 <td></td> <td></td> <td></td> <td></td> <td></td> <td>63</td> <td></td> <td>3</td>						63		3
SPS     MADOX 115KV     1964     0.4064     RFW     RATION 136V     75.9998     0.0006     0.406     3       SPS     MADOX 115KV     1964     0.4046     RFW     RTLPLAGH 15KV     4.00     0.0008     0.4042     3       SPS     MADOX 115KV     1964     0.4046     RFW     RTLPLAGH 15KV     4.00     0.0008     0.4042     3       SPS     MADOX 115KV     1964     0.4046     SPS     RTLPLAGH 15KV     4.00     0.0008     0.4046     3       SPS     MADOX 115KV     1964     0.4046     SPS     RTLPLAGH 15KV     1066     0.0014     0.4046     3       SPS     MADOX 115KV     1964     0.4046     SPS     RTLPLAGK 15KV     27.755     0.0006     0.4047     3       SPS     MADOX 115KV     1964     0.4046     SPS     RTLPLAGK 15KV     27.755     0.0006     0.4046     3       SPS     MADOX 115KV     1964     0.4046     A4464     0.0000     4.0446     3       SPS     MADOX 115KV     1964     0.4046     A4464     A4464 </td <td>SPS</td> <td>'MADOX 115KV'</td> <td>169.4</td> <td></td> <td></td> <td></td> <td></td> <td>3</td>	SPS	'MADOX 115KV'	169.4					3
SPS         MADOX 115KV         164         d.Add8         R/F         FUT CREEK 115KV         400         0.0000         d.Add2         S           SPS         MADOX 115KV         166         d.Add6 SN         GAADER NUT YMND FAM 115KV         136         0.0006         d.Add7         3           SPS         MADOX 115KV         166         d.Add6 SN         GAADER NUT YMND FAM 115KV         36         0.0016         d.Add7         3           SPS         MADOX 115KV         166         d.Add6 SN         HOLCOMB 116KV         277.05         0.0016         d.Add7         3           SPS         MADOX 115KV         166         d.Add6 SN         HOLCOMB 116KV         2.22.007         0.0016         d.Add7         3           SPS         MADOX 115KV         166         d.Add4 SN         HOLCOMS 116KV         4.0403         HOLCOMS 116KV         4.0403         HOLCOMS 106KV         16.0000         d.401         3           SPS         MADOX 115KV         168         d.Add4 SN         HEREIT SNY         16.0000         d.404         3           SPS         MADOX 115KV         168         d.Add4 SN         LEBERLIAK 133KV         4         d.4000         Add4         3         3         3         3<		'MADOX 115KV'	169.4					3
SPS         MADOX 115KV         164         d.Add8         R/F         FUT CREEK 115KV         400         0.0000         d.Add2         S           SPS         MADOX 115KV         166         d.Add6 SN         GAADER NUT YMND FAM 115KV         136         0.0006         d.Add7         3           SPS         MADOX 115KV         166         d.Add6 SN         GAADER NUT YMND FAM 115KV         36         0.0016         d.Add7         3           SPS         MADOX 115KV         166         d.Add6 SN         HOLCOMB 116KV         277.05         0.0016         d.Add7         3           SPS         MADOX 115KV         166         d.Add6 SN         HOLCOMB 116KV         2.22.007         0.0016         d.Add7         3           SPS         MADOX 115KV         166         d.Add4 SN         HOLCOMS 116KV         4.0403         HOLCOMS 116KV         4.0403         HOLCOMS 106KV         16.0000         d.401         3           SPS         MADOX 115KV         168         d.Add4 SN         HEREIT SNY         16.0000         d.404         3           SPS         MADOX 115KV         168         d.Add4 SN         LEBERLIAK 133KV         4         d.4000         Add4         3         3         3         3<	SPS	'MADOX 115KV'	169.4	-0.40406 AEPW	FITZHUGH 161KV	75.99999	-0.00004 -0.40402	3
BPS       MADOX 115KY       1964.4       0.4008 [SMC       (ABADEN CITY 115KY       18.567       0.0005       0.406       3         SPS       MADOX 115KY       1964.4       0.4008 [SMC       (ABAY COLMTY VIMO FAM 115KY)       28       0.0005       0.406       3         SPS       MADOX 115KY       1964.4       0.4008 [SMC       (ABAY COLMTY VIMO FAM 115KY)       28       0.0016       0.4065       3         SPS       MADOX 115KY       1964.4       0.4008 [SPS       (MBERV)       22       0.0008       0.4067       3         SPS       MADOX 115KY       1964.4       0.4008 [SPS       (MBERV)       24       0.0008       0.4067       3         SPS       MADOX 115KY       1964.4       0.4008 [SPS       (MBERV)       24       0.0008       0.4067       3         SPS       MADOX 115KY       1964.4       0.4008 [SPS       (MBERV)       1964.4       0.4008 [SPS       1975       0.0008       0.4008       0.4008       0.4008       0.4008 [SPS       0.4008       0.4008       0.4008       0.4008       0.4008       0.4008       0.4008       0.4008       0.4008       0.4008       0.4008       0.4008       0.4008       0.4008       0.4008       0.4008       0.4008 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3</td>								3
SPS         MADX 115V/         164 - 4.0400 [VFN         GRAC COUNTY VIND FAM 115V/         38         0.0056         -0.406         33           SPS         MADX 115V/         1664 - 4.0400 [SVR         COUNTY VIND FAM 115V/         2652 [33]         33           SPS         MADX 115V/         1664 - 4.0400 [SVR         COUNT 115V/         222 287 [30]         0.0058 - 0.0013 [30]         34           SPS         MADX 115V/         1664 - 4.0400 [SVR         VIND FAM 115V/         222 287 [30]         0.0058 - 0.0013 [30]         34           SPS         MADX 115V/         1664 - 4.0400 [SVR         VIND FAM 115V/         422 287 [30]         0.0006 - 4.0401 [30]           SPS         MADX 115V/         1664 - 4.0400 [SVR         VIND FAM 115V/         42 4.000 [30]         -0.0001 [30]         -0.0001 [30]           SPS         MADX 115V/         1664 - 4.0400 [SPF         VIND FAM 115V/         46 4.0400 [SPF         VIND FAM 115V/         64 0.0000 [SPF         <			169.4					3
SPS         MADOX 115KV         1064         -0.4040         SPS         MADOX 115KV         1066         0.0016         0.0046         0.33           SPS         MADOX 115KV         1644         0.4040         SPS         1.0020         60.014         0.0016         0.0016         0.0016         0.0016         0.0016         0.0016         0.4040         SPS           SPS         MADOX 115KV         1644         0.40403         SPS         1.0015         0.0016         0.4040         SPS           SPS         MADOX 115KV         1644         0.40403         RPW         1.0015         0.0016         0.4041         SPS           SPS         MADOX 115KV         1644         0.40403         RPW         1.0015         6.0001         0.4041         SPS           SPS         MADOX 115KV         1644         0.40403         RPW         1.6013         6.0001         0.4000         0.4041         SPS           SPS         MADOX 115KV         1644         0.40403         SPW         1.6013         0.0001         0.4001         SPS           SPS         MADOX 115KV         1644         0.40403         SPW         1.6014         0.40403         SPS         0.00005         0.404		'MADOX 115KV'						3
SPS         MADOX 115KV         1864         -0.4046 SINC         156V         267.7051         0.0068         -0.4047         33           SPS         MADOX 115KV         1684         -0.4046 SPS         HUBRCOC SeWV         221.287         0.0016         0.4016         3           SPS         MADOX 115KV         1684         -0.4046 SPS         10.0016         0.4016         3           SPS         MADOX 115KV         1684         -0.4046 SPS         10.0016         0.4046         3           SPS         MADOX 115KV         1684         -0.4046 APW         HEBROK 346VV         161         0.0006         -0.4041         3           SPS         MADOX 115KV         1684         -0.4046 APW         LEBROK 346VV         161         0.0006         -0.4041         3           SPS         MADOX 115KV         1694         -0.4046 SPS         MUBICAN 228VV         60         -0.0028         -0.4041         3           SPS         MADOX 115KV         1694         -0.4046 SPS         MUBICAN 228VV         60         -0.0028         -0.27516         3           SPS         MADOX 115KV         1694         -0.4046 SPS         MUBICAN 228VV         60         -0.0026         -0.4041         3	SPS				'HARRINGTON 230KV'	1066		3
SPS     MADOX 115KV     1684     -0.4068 [SPS     JUBRC02 8KV     222.281     -0.0030     -0.4061     3       SPS     MADOX 115KV     1684     -0.4068 [SPS     JUBRC02 8KV     222.281     -0.0030     -0.4061     3       SPS     MADOX 115KV     1684     -0.4068 [SPS     JUBRC02 8KV     221.281     -0.0030     -0.4061     3       SPS     MADOX 115KV     1684     -0.4068 [AFW     LAD15 6KV     11     -0.0006     -0.4041     3       SPS     MADOX 115KV     1684     -0.4068 [AFW     LEDTOX 545KV     61     -0.0006     -0.4041     3       SPS     MADOX 115KV     1684     -0.4068 [SPS     LIAD15 6KV     61     -0.0006     -0.4041     3       SPS     MADOX 115KV     1684     -0.4068 [SPS     MISTAGC 28NV     60     -0.0005     -0.4001     3       SPS     MADOX 115KV     1684     -0.4068 [SPS     MISTAGC 28NV     60     -0.0006     -0.4041     3       SPS     MADOX 115KV     1684     -0.4068 [AFW     NORTHEASTEN STATION 138KV     60     -0.0006     -0.4041     3       SPS     MADOX 115KV     1684     -0.4068 [AFW     NORTHEASTEN STATION 138KV     60     -0.0006     -0.4041     3	SPS		169.4			267,7051		3
SPS       'MADDX 115KV'       1684       -0.40400 (VEPK)       46.1620       0.0056       -0.4040       33         SPS       MADDX 115KV       1684       -0.40400 AEPW       NXDLX 115KV       11       -0.0005       -0.40401       33         SPS       MADDX 115KV       1684       -0.40400 AEPW       NLD13 06KV       11       -0.0005       -0.40401       33         SPS       MADDX 115KV       1684       -0.40400 AEPW       LEBRCX 345KV       16       -0.0007       -0.0	SPS					5		3
SPS       'MADDX 115KV'       1684       -0.40400 (VEPK)       46.1620       0.0056       -0.4040       33         SPS       MADDX 115KV       1684       -0.40400 AEPW       NXDLX 115KV       11       -0.0005       -0.40401       33         SPS       MADDX 115KV       1684       -0.40400 AEPW       NLD13 06KV       11       -0.0005       -0.40401       33         SPS       MADDX 115KV       1684       -0.40400 AEPW       LEBRCX 345KV       16       -0.0007       -0.0	SPS	'MADOX 115KV'	169.4	-0.40406 SPS	JONES 230KV	222.2987	-0.00303 -0.40103	3
SPS         MADDX 115KV         1164.4         -0.40466         JEW         LSD 15 69KV         111         -0.0005         -0.40401         3           SPS         MADDX 115KV         1684.         -0.40466         JEW         LESECKX 345KV         4         0.00066         -0.404         JS           SPS         MADDX 115KV         1684.         -0.40466         JS         LP         4         0.00066         -0.404         JS           SPS         MADDX 115KV         1694.         -0.40466         JS         LP         4         0.40466         JS         LP         4         0.00066         -0.4046         JS         LP         MADDX 115KV         169.4         -0.40466         JS         LP         MADDX 115KV         169.4         -0.40466         JEW         NOTHEASTERN STATION 345KV         260.00005         -0.40401         3           SPS         MADDX 115KV         169.4         -0.40466         JEW         NOTHEASTERN STATION 345KV         160.00007         -0.4046         JS         JS         JS         JADDX 115KV         169.4         -0.40466         JEW         NOTHEASTERN STATION 345KV         450.00007         -0.4046         JS         JS         JS         JADDX 115KV         169.4	SPS							3
SPS         MADOX 115KV         118.4         -0.40466 AEPW         LEBROK X         11         0.00005         -0.40401         3           SPS         MADOX 115KV         168.4         -0.40466 AEPW         LEBRAMA 136KV         4         0.00006         -0.404         3           SPS         MADOX 115KV         168.4         -0.40466 AFP         LEBRAMA 136KV         6         0.0008         -3           SPS         MADOX 115KV         169.4         -0.40466 AFP         LEBRAMA 136KV         6         0.0008         -3           SPS         MADOX 115KV         169.4         -0.40466 AFP         NLTSTON 135KV         16         0.0008         -0.4041         3           SPS         MADOX 115KV         169.4         -0.40466 AFPW         NCTTHEASTERN STATION 135KV         200         0.00005         -0.40401         3           SPS         MADOX 115KV         169.4         -0.40466 AFPW         DCC SAKV         510         0.000005         -0.40401         3           SPS         MADOX 115KV         169.4         -0.40466 AFPW         DCC SAKV         510         0.000005         -0.40401         3           SPS         MADOX 115KV         169.4         -0.40466 AFPW         NECRENTON 138KV	SPS	'MADOX 115KV'	169.4	-0.40406 AEPW	'KNOXLEE 138KV'	42	-0.00006 -0.404	3
SPS         MADOX 115KV         168.4         -0.4006 [SPW         LIEBERMAN 138KV         6         -0.4006         33           SPS         MADOX 115KV         169.4         -0.40406 [SPS         MUSTANG 230KV         660         -0.0038         -0.4038         33           SPS         MADOX 115KV         169.4         -0.40406 [SPS         MUSTANG 230KV         60         -0.0038         -0.4038         33           SPS         MADOX 115KV         169.4         -0.40406 [SPS         MUSTANG 230KV         268         -0.0000         -0.40401         33           SPS         MADOX 115KV         169.4         -0.40406 AEPW         NORTHEASTERN STATON 436VV         60         -0.0000         -0.40401         33           SPS         MADOX 115KV         169.4         -0.40406 AEPW         NORTHEASTERN STATON 436VV         60         -0.0000         -0.40401         33           SPS         MADOX 115KV         169.4         -0.40406 AEPW         NORTHESSTERN STATON 138KV         160         0.00003         -0.40401         33           SPS         MADOX 115KV         169.4         -0.40406 AEPW         NORTHESSTERN STATON 138KV         160         0.0003         -0.40406         33           SPS         MADOX 115KV	SPS	'MADOX 115KV'	169.4	-0.40406 AEPW	'L&D13 69KV'	11	-0.00005 -0.40401	3
SPS         MADOX 115KV         169.4         -0.4006 SPS         ILP-MACK2 69KV         66         -0.00367         -0.40039         33           SPS         MADOX 115KV         169.4         -0.4006 SPS         INUSTAG 20KV         160         -0.2288         -0.37518         33           SPS         MADOX 115KV         169.4         -0.4006 SPS         INUSTG 118.0         2.30KV         50         -0.02288         -0.37518         33           SPS         MADOX 115KV         169.4         -0.4006 AEPW         NORTHEASTERN STATION 138KV         600         -0.0006         -0.4001         33           SPS         MADOX 115KV         169.4         -0.4006 AEPW         NORTHEASTERN STATION 138KV         450         -0.0006         -0.4001         33           SPS         MADOX 115KV         169.4         -0.4006 SPS         SAN JUN 220KV         430         -0.4006 SPS         SAN	SPS	'MADOX 115KV'	169.4	-0.40406 AEPW	'LEBROCK 345KV'	515	-0.00006 -0.404	3
SPS         MADOX 115KV         168.4         -0.4006 SPS         ILP.MACK2 68KV         661         -0.0036         -0.4039         33           SPS         MADOX 115KV         169.4         -0.4006 SPS         MUSTAG 230KV         160         -0.2288         -0.37518         33           SPS         MADOX 115KV         169.4         -0.4006 SPS         MUSTGS 118.0         230KV         60         -0.0288         -0.37518         33           SPS         MADOX 115KV         169.4         -0.4006 APPW         NORTHEASTERN STATION 138KV         600         -0.4001         33           SPS         MADOX 115KV         169.4         -0.4006 APPW         NORTHEASTERN STATION 138KV         400         -0.0006         -0.4001         33           SPS         MADOX 115KV         169.4         -0.4006 SPS         SNA JAN 23KY         430         0.0006         -0.4001         -0.0000         -0.4009         33           SPS         MADOX 115KV         169.4         -0.4006 SPS         SNA JAN 23KY         430         0.0016         -0.0001         -0.0002         -0.4039         33           SPS         MADOX 115KV         169.4         -0.4006 SPS         SNA JAN 23KY         430         0.0001         -0.0002 <t< td=""><td>SPS</td><td>'MADOX 115KV'</td><td>169.4</td><td>-0.40406 AEPW</td><td>'LIEBERMAN 138KV'</td><td>4</td><td>-0.00006 -0.404</td><td>3</td></t<>	SPS	'MADOX 115KV'	169.4	-0.40406 AEPW	'LIEBERMAN 138KV'	4	-0.00006 -0.404	3
SPS         MADOX 115KV         109.4         -0.4006 SPS         MUSTIGS 116.0         200KV         50         -0.0288         0.37516         3           SPS         MADOX 115KV         109.4         -0.4006 AEPW         NORTHEASTERN STATION 138KV         600         -0.0005         -0.4001         3           SPS         MADOX 115KV         109.4         -0.4006 AEPW         NORTHEASTERN STATION 138KV         600         -0.0005         -0.4001         3           SPS         MADOX 115KV         109.4         -0.4006 AEPW         NORTHEASTERN STATION 138KV         460         -0.4006         -0.4006 AEPW         PIRKEY GENERATION 138KV         450         -0.0006         -0.404         -3           SPS         MADOX 115KV         109.4         -0.4006 SPS         SAN JUAN 230KV         46         -0.4006 SPS         SAN JUAN 230KV         28         -0.0001         -0.4003         -0.333         -3         -3         -3         -3         -3         -3         -3         -3         -3         -3         -3         -3         -		'MADOX 115KV'	169.4		'LP-MACK2 69KV'	60	-0.00367 -0.40039	3
SPS         MADOX 115KV         1684         -0.40466         APW         NORTHEASTERN STATION 138KV         208         -0.0005         -0.40401         3           SPS         MADOX 115KV         1684         -0.40466         APW         OCC 345KV         600         0.0005         -0.40401         3           SPS         MADOX 115KV         1684         -0.40466         APW         PICK STERN STATION 138KV         400         0.00005         -0.40401         3           SPS         MADOX 115KV         1684         -0.40466         APW         PICK STERN STATION 138KV         140.0001         0.00007         -0.4039         3           SPS         MADOX 115KV         1684         -0.40466         SPK         SNUTRERSIDE STATION 138KV         141         0.0145         -0.40405           SPS         MADOX 115KV         1684         -0.40466         SPK         SUTHVERSIDE STATION 138KV         281         0.0003         -0.40409         3           SPS         MADOX 115KV         1684         -0.40466         SPK         SUTHVERSIDE STATION 138KV         281         0.0003         -0.40409         3           SPS         MADOX 115KV         1684         -0.40406 SPK         SUTHVERSIDE STATION 138KV         281	SPS					160		3
SPS         MADOX 115KV         1664         -0.4046 ÅEPW         NORTH-EASTERN STATION 138KV         208         -0.0005         -0.40401         3           SPS         MADOX 115KV         1684         -0.4046 ÅEPW         NORTH-EASTERN STATION 345KV         600         -0.0005         -0.40401         3           SPS         MADOX 115KV         1684         -0.4046 ÅEPW         NORTH-EASTERN STATION 138KV         40000         -0.0005         -0.40401         3           SPS         MADOX 115KV         1684         -0.40466 ÅEPW         PIKEK GERERATION 138KV         140.0001         -0.00007         -0.4039         3           SPS         MADOX 115KV         1684         -0.40466 ÅEPW         RVERSIDE STATION 138KV         141         0.0145         -0.40461         3           SPS         MADOX 115KV         1684         -0.40466 ÅEPW         SUEPRIS BEAR 138KV         80         0.0003         -0.40469         3           SPS         MADOX 115KV         1684         -0.40466 ÅEPW         SUETINE VALER 115KV         24         0.0013         -0.40469         3           SPS         MADOX 115KV         1684         -0.40466 ÅEPW         VULK 23KV         29         0.0013         -0.40469         3           SPS <td>SPS</td> <td>'MADOX 115KV'</td> <td>169.4</td> <td>-0.40406 SPS</td> <td>'MUSTG5 118.0 230KV'</td> <td>50</td> <td>-0.02888 -0.37518</td> <td>3</td>	SPS	'MADOX 115KV'	169.4	-0.40406 SPS	'MUSTG5 118.0 230KV'	50	-0.02888 -0.37518	3
SPS         MADX 115KV         1664         -0.4066 ÅEPW         PIRK CENTRE         ST         0.00006         0.404         3           SPS         MADX 115KV         1664         -0.4066 ÅEPW         PIRK CENTRE         58         0.00007         -0.4039         3           SPS         MADX 115KV         1664         -0.4066 ÅEPW         PIRK CENTRE         37         -0.4039         3           SPS         MADX 115KV         1664         -0.4066 ÅEPW         SET         SAN JUAN 230KV         36         0.02502         -0.42398         3           SPS         MADX 115KV         1664         -0.4066 ÅEPW         SETENTS ATTON 138KV         14         0.00145         -0.4039         3           SPS         MADX 115KV         1664         -0.4066 ÅEPW         SUTHWESTERN STATION 138KV         20         -0.0031         -0.4038         3           SPS         MADX 115KV         1664         -0.4006 ÅPS         STETEN STATION 138KV         20         -0.0031         -0.4063         3           SPS         MADX 115KV         1664         -0.4006 ÅPS         TOLK 230KV         1032.659         -0.4007         -0.4039         3           SPS         MADX 115KV         1664         -0.4006 ÅEPW <td>SPS</td> <td>'MADOX 115KV'</td> <td>169.4</td> <td>-0.40406 AEPW</td> <td>'NORTHEASTERN STATION 138KV'</td> <td>208</td> <td>-0.00005 -0.40401</td> <td>3</td>	SPS	'MADOX 115KV'	169.4	-0.40406 AEPW	'NORTHEASTERN STATION 138KV'	208	-0.00005 -0.40401	3
SPS         MADX 115KV         1664         -0.4066 ÅEPW         PIRK*C GENERATION 138KV         519         -0.0006         -0.404         3           SPS         MADX 115KV         1664         -0.4066 ÅEPW         PIRK*C GENERATION 138KV         14.0001         -0.0006         -0.4049         3           SPS         MADX 115KV         1664         -0.4066 ÅEPW         RIVERSIDE STATION 138KV         14.0001         -0.0007         -0.40398         3           SPS         MADX 115KV         1664         -0.4066 ÅEPW         SIENCH 68KV         14         0.00145         -0.40208         3           SPS         MADX 115KV         1664         -0.4006 ÅEPW         SIENCH 68KV         14         0.00145         -0.40038         3           SPS         MADX 115KV         1664         -0.4006 ÅEPW         SUTHWESTERN STATION 138KV         20         -0.0031         -0.4098         3           SPS         MADX 115KV         1664         -0.4006 ÅEPW         SUTHWESTERN STATION 138KV         20         -0.0037         -0.4098         3           SPS         MADX 115KV         1664         -0.4006 ÅEPW         WILKER 138KV         1012 ÅES         -0.4007         -0.4098         3           SPS         MADX 115KV <td>SPS</td> <td>'MADOX 115KV'</td> <td>169.4</td> <td>-0.40406 AEPW</td> <td>'NORTHEASTERN STATION 345KV'</td> <td>600</td> <td>-0.00005 -0.40401</td> <td>3</td>	SPS	'MADOX 115KV'	169.4	-0.40406 AEPW	'NORTHEASTERN STATION 345KV'	600	-0.00005 -0.40401	3
SPS         MADOX 115KV         1694         0.4006 ÅEPW         RIVERSIDE STATION 138KV         14.00001         -0.00007         0.4039         3           SPS         MADOX 115KV         1694         0.40406 SPS         SNA UJAN 230KV         36         0.02007         0.4039         3           SPS         MADOX 115KV         1694         0.40406 SPS         SNA UJAN 230KV         16         0.40406 MEPW         SUEFPING BEAR 138KV         16         0.0003         0.40409         3           SPS         MADOX 115KV         1694         0.40406 ÅEPW         SUETPINS BEAR 138KV         29         0.00013         0.40433         3           SPS         MADOX 115KV         1694         0.40406 ÅPS         STEER WATER 115KV         24         0.00013         0.40493         3           SPS         MADOX 115KV         1694         0.40406 ÅPS         STEER WATER 115KV         1032 A69         0.0007         0.40393         3           SPS         MADOX 115KV         1694         0.40406 ÅEPW         WELSH 245KV         1032 A69         0.40393         3           SPS         MADOX 115KV         1694         0.40406 ÅEPW         WELSH 245KV         105078         0.00007         0.40399         3           <	SPS	'MADOX 115KV'	169.4	-0.40406 AEPW	'OEC 345KV'	519	-0.00006 -0.404	3
SPS         MADDX 115KV         169.4         0.40406 SPS         SAN JUAN 230KV         36         0.02502         0.42906         33           SPS         MADDX 115KV         169.4         0.40406 SPS         SDRCH 68KV         141         0.00145         0.40406         33           SPS         MADDX 115KV         169.4         0.40406 AEPW         SUETPING BEAR 138KV         80         0.0003         0.40406         33           SPS         MADDX 115KV         169.4         0.40406 AEPW         SUETPING BEAR 138KV         29         0.0003         0.40405         33           SPS         MADDX 115KV         169.4         0.40406 SPS         STEER WATER 115KV         24         0.0013         0.40543         33           SPS         MADDX 115KV         169.4         0.40406 AEPW         WEATHERKORD 34KV         1032.659         0.0001         -0.40461         33           SPS         MADDX 115KV         169.4         -0.40406 AEPW         WELSH 346KV         51.05765         0.40001         -0.40406 AEPW         WILKES 336KV         51.05765         0.40001         0.00007         -0.40398         33           SPS         MADDX 115KV         169.4         -0.40406 AEPW         WILKES 336KV         50.0001         0.	SPS	'MADOX 115KV'	169.4	-0.40406 AEPW	'PIRKEY GENERATION 138KV'	450	-0.00006 -0.404	3
SPS         MADDX 115KV         168.4         0.40406 SPS         SAN JUAN 230KV         36         0.02502         0.42006         3           SPS         MADDX 115KV         169.4         0.4066 SPS         SIDRCH 68KV         14         0.00015         0.40063         3           SPS         MADDX 115KV         169.4         0.4066 AEPW         SUEEPING BEAR 138KV         80         0.00013         0.40408         3           SPS         MADDX 115KV         169.4         0.4066 AEPW         SUETING BEAR 138KV         29         0.00013         0.40403         3           SPS         MADDX 115KV         169.4         0.4066 SPS         STEER WATER 115KV         29         0.0001         0.40451         3           SPS         MADDX 115KV         169.4         0.40466 AEPW         WEATHERFORD 34KV         168.4         0.40466 AEPW         WELSH 346KV         95.0001         0.0007         0.40398         3           SPS         MADDX 115KV         169.4         0.40466 AEPW         WELSH 346KV         51.05785         0.00001         0.40466         3           SPS         MADDX 115KV         169.4         0.40466 AEPW         WULKES 345KV         51.05785         0.40403         3           SPS	SPS	'MADOX 115KV'	169.4	-0.40406 AEPW	'RIVERSIDE STATION 138KV'	14.00001	-0.00007 -0.40399	3
SPS         MADOX 115KV         164         -0.40406 [SPS         SIDRCH 68KV         14         0.00145         0.4045         3           SPS         MADOX 115KV         169.4         -0.40406 [AEPW         SUEEPING BEAR 138KV         80         0.00003         0.40409         3           SPS         MADOX 115KV         169.4         -0.40406 [SPS         SUEEPING BEAR 138KV         29         -0.00013         0.40393         3           SPS         MADOX 115KV         169.4         -0.40406 [SPS         TCLK 230KV         1032,659         0.00581         -0.40463           SPS         MADOX 115KV         169.4         -0.40406 [SPS         TCLK 230KV         1032,659         0.00071         -0.40491         3           SPS         MADOX 115KV         169.4         -0.40466 [AEPW         WELTHER 70KPD 34KV         975,0001         -0.00007         -0.40399         3           SPS         MADOX 115KV         169.4         -0.40466 [AEPW         WLLKES 345KV         67,00001         -0.00007         -0.40399         3           SPS         MADOX 115KV         169.4         -0.40466 [SPS         WLLKES 345KV         67,00001         -0.00006         -0.40413           SPS         MADOX 115KV         169.4 <t< td=""><td>SPS</td><td></td><td></td><td></td><td>'SAN JUAN 230KV'</td><td>36</td><td></td><td>3</td></t<>	SPS				'SAN JUAN 230KV'	36		3
SPS         MADOX 115KV         109.4         -0.40406 JAEPW         SLEEPING BEAR 138KV         80         0.00003         -0.4093         33           SPS         MADOX 115KV         109.4         -0.40406 JAEPW         SUTHWESTERN STATION 138KV'         24         0.00137         -0.40333         33           SPS         MADOX 115KV         109.4         -0.40406 JPS         STEER WATER 115KV'         24         0.00137         -0.40497         33           SPS         MADOX 115KV         108.4         -0.40406 JPS         STEER WATER 115KV'         108.2         0.00011         -0.40497         33           SPS         MADOX 115KV         108.4         -0.40406 JAEPW         WELSH 34KV         975.0001         -0.40493         33           SPS         MADOX 115KV         109.4         -0.40406 JAEPW         WILKES 138KV         51.05785         -0.00007         -0.40399         33           SPS         MADOX 115KV         109.4         -0.40406 JAEPW         WILKES 138KV         61.00001         -0.00006         -0.40413           SPS         MADOX 115KV         109.4         -0.40406 JPS         WILKIND 230KV         48         0.00006         -0.40413           SPS         CUNNINGHAM 115KV         109.4         -0						14		3
SPS         MADOX 115KV         169.4         0.40466 [SPS         SOUTHWESTERN STATION 138KV         22         0.00013         0.40393         33           SPS         MADOX 115KV         169.4         0.40466 [SPS         TOLK 230KV         1032 659         0.00581         0.40393         33           SPS         MADOX 115KV         169.4         0.40466 [SPS         TOLK 230KV         1032 659         0.00581         0.40843         33           SPS         MADOX 115KV         169.4         0.40466 [SPS         TOLK 230KV         1032 659         0.00071         0.40939         33           SPS         MADOX 115KV         169.4         0.40466 [APPW         WELSE 138KV         975.0001         0.00007         0.40399         33           SPS         MADOX 115KV         169.4         0.40466 [APPW         WILKES 138KV         61.0575         0.00007         0.40399         33           SPS         MADOX 115KV         169.4         0.40466 [SPS         WILKES 138KV         61.0575         0.00007         0.40399         33           SPS         MADOX 115KV         169.4         0.40466 [SPS         WILKES 138KV         60.00006         0.40412         33           SPS         MADOX 115KV         169.4	SPS	'MADOX 115KV'		-0.40406 AEPW	SLEEPING BEAR 138KV	80	0.00003 -0.40409	3
SPS         MADOX 115KV         169.4         -0.40406 [SPS         TOLK 230KV         1032,659         0.00581         -0.40871         33           SPS         MADOX 115KV         169.4         -0.40466 [AEPW         WEATHERRORD 34KV         975.0001         -0.00071         -0.40399         33           SPS         MADOX 115KV         169.4         -0.40466 [AEPW         WELSE 138KV         975.0001         -0.000071         -0.40399         33           SPS         MADOX 115KV         169.4         -0.40466 [AEPW         WILKES 138KV         67.00001         -0.00006         -0.4043           SPS         MADOX 115KV         169.4         -0.40466 [SPS         WILKES 138KV         67.00001         -0.00006         -0.4043           SPS         MADOX 115KV         169.4         -0.40466 [SPS         WILWIND 230KV         48.00206         -0.40412         33           SPS         MADOX 115KV         169.4         -0.40466 [SPS         WILWIND 230KV         48.00206         -0.40412         30         -0.11337         -0.31406         49.00206         -0.40412         33         -0.31337         -0.31406         49.00206         -0.40412         30         -0.11337         -0.31406         49.00206         -0.40412         30         -	SPS	'MADOX 115KV'		-0.40406 AEPW	SOUTHWESTERN STATION 138KV	29	-0.00013 -0.40393	3
SPS         MADOX 115KV         169.4         -0.40406 [SPS         TOLK 230KV         1032,659         0.00581         -0.40871         33           SPS         MADOX 115KV         169.4         -0.40466 [AEPW         WEATHERRORD 34KV         975.0001         -0.00071         -0.40399         33           SPS         MADOX 115KV         169.4         -0.40466 [AEPW         WELSE 138KV         975.0001         -0.000071         -0.40399         33           SPS         MADOX 115KV         169.4         -0.40466 [AEPW         WILKES 138KV         67.00001         -0.00006         -0.4043           SPS         MADOX 115KV         169.4         -0.40466 [SPS         WILKES 138KV         67.00001         -0.00006         -0.4043           SPS         MADOX 115KV         169.4         -0.40466 [SPS         WILWIND 230KV         48.00206         -0.40412         33           SPS         MADOX 115KV         169.4         -0.40466 [SPS         WILWIND 230KV         48.00206         -0.40412         30         -0.11337         -0.31406         49.00206         -0.40412         33         -0.31337         -0.31406         49.00206         -0.40412         30         -0.11337         -0.31406         49.00206         -0.40412         30         -		'MADOX 115KV'	169.4	-0.40406 SPS	'STEER WATER 115KV'	24	0.00137 -0.40543	3
SPS         MADOX 115KV         169.4         -0.40466 JAEPW         WEATHERFORD 34KV         148         0.0001         0.40416         33           SPS         MADOX 115KV         169.4         -0.40466 JAEPW         WELSH 35KV         975.0001         0.00007         0.40399         33           SPS         MADOX 115KV         169.4         -0.40466 JAEPW         WILKES 138KV         575.00001         0.00007         0.40399         33           SPS         MADOX 115KV         169.4         -0.40466 JAEPW         WILKES 345KV         67.00001         0.00006         0.4043         33           SPS         MADOX 115KV         169.4         -0.40466 JAEPW         WILKES 345KV         67.00001         -0.00006         0.4043         33           SPS         MADOX 115KV         169.4         -0.40466 JAPS         MUSTANG 115KV         300         -0.11337         -0.31456         44           SPS         MADOX 115KV         169.4         -0.40466 JSPS         MUSTANG 115KV         300         -0.11337         -0.31456         44           SPS         MADOX 115KV         169.4         -0.40466 JSPS         CUNNINGHAM 230KV         300         -0.11337         -0.31657         -0.0004         SPS         CUNNINGHAM 230KV	SPS				TOLK 230KV	1032.659	0.00581 -0.40987	3
SPS         MADOX 115KV         169.4         -0.40406 JAEPW         WELSH 345KV         975.0001         -0.00007         -0.40399         33           SPS         MADOX 115KV         169.4         -0.40466 JAEPW         WILKES 345KV         67.0001         -0.00006         -0.40399         33           SPS         MADOX 115KV         169.4         -0.40466 JAEPW         WILKES 345KV         67.0001         -0.00006         -0.4039         33           SPS         MADOX 115KV         169.4         -0.40466 JAEPW         WILKES 345KV         67.0001         -0.00006         -0.4043           SPS         CUNNINGHAM 115KV         169.4         -0.40466 JPS         MUSTANG 115KV         300         -0.11337         -0.31405         44           SPS         MADOX 115KV         169.4         -0.40466 JPS         MUSTANG 115KV         300         -0.11337         -0.31405         44           SPS         MUSTANC 115KV         169.4         -0.40466 JPS         MUSTANG 115KV         300         -0.11337         -0.31405         44           SPS         MUSTANC 115KV         169.4         -0.40466 JPS         CUNNINGHAM 230KV         196.0         0.16534         -0.1867         7           SPS         MUSTANC 230KV	SPS	'MADOX 115KV'			WEATHERFORD 34KV			3
SPS         MADOX 115KV         169.4         -0.40406 [AEPW         WILKES 138KV         51.05785         -0.00007         -0.4039         33           SPS         MADOX 115KV         169.4         -0.40466 [AEPW         WILKES 138KV         67.0001         -0.00007         -0.4039         33           SPS         MADOX 115KV         169.4         -0.40466 [AEPW         WILKES 138KV         67.0001         -0.0006         -0.4043         3           SPS         CUNNINGHAM 115KV         181         -0.4724 [SPS         WILKIND 230KV         300         -0.11337         -0.31405         44           SPS         MADOX 115KV         169.4         -0.40406 [SPS         WILSTANG 115KV         300         -0.11337         -0.21669         44           SPS         MADXA 115KV         169.4         -0.40406 [SPS         MUSTANG 115KV         300         -0.1137         -0.2069         44           SPS         MADXA 115KV         169.4         -0.40406 [SPS         MUSTANG 115KV         300         -0.1137         -0.2069         44           SPS         MADXA 115KV         169         -0.0288         SPS         CUNNINGHAM 230KV         196         0.16594         -0.1667         6           SPS         MUSTAN	SPS	'MADOX 115KV'		-0.40406 AEPW	WELSH 345KV'			3
SPS         MADOX 115KV         168.4         -0.40406 JR=PW         WILKES 345KV         67.00001         -0.00006         -0.404         33           SPS         MADOX 115KV         168.4         -0.40406 JR=PW         WILKNS 205KV         48         0.00206         -0.4012         33           SPS         CUNNINGHAM 115KV         161.4         -0.42406 JPS         MUSTANG 115KV         300         -0.11337         -0.31405         44           SPS         MUSTANG 115KV         169.4         -0.4046 JPS         MUSTANG 115KV         300         -0.11337         -0.31406         45           SPS         MUSTANG 115KV         169.4         -0.4046 JPS         CUNNINGHAM 230KV         160         0.16594         -0.27909         4           SPS         CARLSBAD 68V         169         -0.0279 JPS         CUNNINGHAM 230KV         196         0.16594         -0.1867         6           SPS         MUSTANG 230KY         161         -0.0228 JPS         CUNNINGHAM 230KV         196         0.16594         -0.1867         7           AEPW         AEP-CT013.8         161KV         65         0.0002 JPS         CUNNINGHAM 230KV         196         0.16594         -0.16596         7           AEPW         AEP-CT	SPS	'MADOX 115KV'	169.4	-0.40406 AEPW	WILKES 138KV	51.05785	-0.00007 -0.40399	3
SPS         MADOX 115KV         169.4         -0.40406 [SPS         WILWIND 230KV         46         0.00206         -0.40401         37           SPS         CUNNINGHAM 115KV         181         -0.42742 [SPS         MUSTANG 115KV         300         -0.11337         -0.2090         4           SPS         MADOX 115KV         184         -0.40406 [SPS         MUSTANG 115KV         300         -0.11337         -0.2090         4           SPS         MADSTANC 115KV         29         -0.11337 [SPS         CUNNINGHAM 230KV         196         0.16594         -0.27931         4           SPS         CARLSBAD 69KV         18         -0.02079 [SPS         CUNNINGHAM 230KV         196         0.16594         0.16673         6           SPS         MUSTANG 115KV         63         -0.02079 [SPS         CUNNINGHAM 230KV         196         0.16594         0.16657         7           AEPW         AEP-CT013.8 161KV         63         -0.00004 [SPS         CUNNINGHAM 230KV         196         0.16594         0.1659         7           AEPW         AEP-CT013.8 161KV         85         -0.00004 [SPS         CUNNINGHAM 230KV         196         0.16594         0.16598         7           AEPW         AEP-CT013.8 161KV		'MADOX 115KV'	169.4	-0.40406 AEPW	WILKES 345KV		-0.00006 -0.404	3
SPS         MADOX 115KV'         10.94 (-0.40406 JPS         MUSTANG 115KV'         300 (-0.1137)         0.2006 (0.27831)           SPS         MUSTANG 115KV'         29 (-0.1137)         1.373 JPS         CUNNINGHAM 230KV'         196 (-0.16594)         0.16594 (-0.1873)         4           SPS         MUSTANG 115KV'         116 (-0.02078 JPS)         CUNNINGHAM 230KV'         196 (-0.16594)         0.18594 (-0.1873)         6           SPS         MUSTANG 120KV'         196 (-0.16594)         0.18594 (-0.1987)         6         6           SPS         MUSTANG 115KV'         63 (-0.00037 JPS)         CUNNINGHAM 230KV'         196 (-0.16594 (-0.16567)         7           AEPW         AEP-CT013.8 161KV         85 (-0.00004 JPS)         CUNNINGHAM 230KV'         196 (-0.16594 (-0.16598)         7           AEPW         AEP-CT013.8 161KV         85 (-0.00004 JPS)         CUNNINGHAM 230KV'         196 (-0.16594 (-0.16598)         7           AEPW         AEP-CT013.8 161KV         85 (-0.00004 JPS)         CUNNINGHAM 230KV'         196 (-0.16594 (-0.16598)         7           AEPW         AEP-CT013.8 161KV         85 (-0.00004 JPS)         CUNNINGHAM 230KV         196 (-0.16594 (-0.16598)         7           AEPW         AEP-CT013.8 161KV         85 (-0.00004 JPS)         CUNNINGHAM 230KV         196 (-0			169.4	-0.40406 SPS	WILWIND 230KV			3
SPS         MADOX 115KV'         10.94 (-0.40406 JPS         MUSTANG 115KV'         300 (-0.1137)         0.2006 (0.27831)           SPS         MUSTANG 115KV'         29 (-0.1137)         1.373 JPS         CUNNINGHAM 230KV'         196 (-0.16594)         0.16594 (-0.1873)         4           SPS         MUSTANG 115KV'         116 (-0.02078 JPS)         CUNNINGHAM 230KV'         196 (-0.16594)         0.18594 (-0.1873)         6           SPS         MUSTANG 120KV'         196 (-0.16594)         0.18594 (-0.1987)         6         6           SPS         MUSTANG 115KV'         63 (-0.00037 JPS)         CUNNINGHAM 230KV'         196 (-0.16594 (-0.16567)         7           AEPW         AEP-CT013.8 161KV         85 (-0.00004 JPS)         CUNNINGHAM 230KV'         196 (-0.16594 (-0.16598)         7           AEPW         AEP-CT013.8 161KV         85 (-0.00004 JPS)         CUNNINGHAM 230KV'         196 (-0.16594 (-0.16598)         7           AEPW         AEP-CT013.8 161KV         85 (-0.00004 JPS)         CUNNINGHAM 230KV'         196 (-0.16594 (-0.16598)         7           AEPW         AEP-CT013.8 161KV         85 (-0.00004 JPS)         CUNNINGHAM 230KV         196 (-0.16594 (-0.16598)         7           AEPW         AEP-CT013.8 161KV         85 (-0.00004 JPS)         CUNNINGHAM 230KV         196 (-0	SPS	CUNNINGHAM 115KV	181	-0.42742 SPS	'MUSTANG 115KV'		-0.11337 -0.31405	4
SPS         CARLSRAD 69KV         18         -0.0279 [SPS         CUNNINGHAM 230KV         196         0.16594         -0.1873         6           SPS         MUSTANC 230KV         150         -0.0279 [SPS         CUNNINGHAM 230KV         196         0.16594         -0.18673         6           WEPL         A. M. MULLERGREN GENERATOR 115KV         63         0.00037 [SPS         CUNNINGHAM 230KV         196         0.16594         -0.16597         7           AEPW         AEP-CT013.8         161KV         85         -0.00004 [SPS         CUNNINGHAM 230KV         196         0.16594         -0.16598         7           AEPW         AEP-CT013.8         161KV         85         -0.00004 [SPS         CUNNINGHAM 230KV         196         0.16594         -0.16598         7           AEPW         AEP-CT013.8         161KV         85         -0.00004 [SPS         CUNNINGHAM 230KV         196         0.16594         -0.16598         7           AEPW         AEP-CT013.8         161KV         85         -0.00004 [SPS         CUNNINGHAM 230KV         196         0.16594         -0.16598         7           AEPW         AEP-CT013.8         161KV         85         -0.00004 [SPS         CUNNINGHAM 230KV         196         0.16594 </td <td>SPS</td> <td>'MADOX 115KV'</td> <td>169.4</td> <td>-0.40406 SPS</td> <td>'MUSTANG 115KV'</td> <td>300</td> <td>-0.11337 -0.29069</td> <td>4</td>	SPS	'MADOX 115KV'	169.4	-0.40406 SPS	'MUSTANG 115KV'	300	-0.11337 -0.29069	4
SPS         CARLSAD 69KV         18         -0.0279 SPS         CUNNINGHAM 230KV         196         0.16594         -0.19482         6           SPS         MUSTANC 320KV         150         -0.02288 SPS         CUNNINGHAM 230KV         196         0.16594         -0.19482         6           WEPL         A. M. MULLEROREN GENERATOR 115KV         63         0.0037 SPS         CUNNINGHAM 230KV         196         0.16594         -0.19482         6           AEPW         AEP-CT013.8         161KV         68         -0.00004 SPS         CUNNINGHAM 230KV         196         0.16594         -0.16598         7           AEPW         AEP-CT0213.8         161KV         85         -0.00004 SPS         CUNNINGHAM 230KV         196         0.16594         -0.16598         7           AEPW         AEP-CT0213.8         161KV         85         -0.00004 SPS         CUNNINGHAM 230KV         196         0.16594         -0.16598         7           AEPW         AEP-CT0213.8         161KV         85         -0.00004 SPS         CUNNINGHAM 230KV         196         0.16594         -0.16598         7           AEPW         AEP-CT0213.8         161KV         85         -0.00004 SPS         CUNNINGHAM 230KV         196         0.16594								4
WEPL         IA. M. MULLERGREN GENERATOR 115KV         63         0.00037 [SPS         CUNNINGHAM 230KV         196         0.16594         -0.16557         7           AEPW         IAEP-CT0113.8 161KV         85         -0.00004 [SPS         CUNNINGHAM 230KV         196         0.16594         -0.16598         7           AEPW         IAEP-CT013.8 161KV         85         -0.00004 [SPS         CUNNINGHAM 230KV         196         0.16594         -0.16598         7           AEPW         IAEP-CT0313.8 161KV         85         -0.00004 [SPS         CUNNINGHAM 230KV         196         0.16594         -0.16598         7           AEPW         IAEP-CT0313.8 161KV         85         -0.00004 [SPS         CUNNINGHAM 230KV         196         0.16594         -0.16598         7           AEPW         IAEP-CT0313.8 161KV         85         -0.00004 [SPS         CUNNINGHAM 230KV         196         0.16594         -0.16598         7           AEPW         IAEP-CT0313.8 161KV         85         -0.00004 [SPS         CUNNINGHAM 230KV         196         0.16594         -0.16598         7           AEPW         IAH-CC C118.0 138KV         150         -0.00006 [SPS         CUNNINGHAM 230KV         196         0.16594         -0.1659         7	SPS	'CARLSBAD 69KV'	18					6
WEPL         IA. M. MULLERGREN GENERATOR 115KV         63         0.00037 [SPS         CUNNINGHAM 230KV         196         0.16594         -0.16557         7           AEPW         IAEP-CT0113.8 161KV         85         -0.00004 [SPS         CUNNINGHAM 230KV         196         0.16594         -0.16598         7           AEPW         IAEP-CT013.8 161KV         85         -0.00004 [SPS         CUNNINGHAM 230KV         196         0.16594         -0.16598         7           AEPW         IAEP-CT0313.8 161KV         85         -0.00004 [SPS         CUNNINGHAM 230KV         196         0.16594         -0.16598         7           AEPW         IAEP-CT0313.8 161KV         85         -0.00004 [SPS         CUNNINGHAM 230KV         196         0.16594         -0.16598         7           AEPW         IAEP-CT0313.8 161KV         85         -0.00004 [SPS         CUNNINGHAM 230KV         196         0.16594         -0.16598         7           AEPW         IAEP-CT0313.8 161KV         85         -0.00004 [SPS         CUNNINGHAM 230KV         196         0.16594         -0.16598         7           AEPW         IAH-CC C118.0 138KV         150         -0.00006 [SPS         CUNNINGHAM 230KV         196         0.16594         -0.1659         7	SPS							6
AEPW         IAEP-CT0213.8         161KV'         85         -0.0004         PSP         CUNNINGHAM 230KV'         196         0.16594         -0.16598         7           AEPW         IAEP-CT0213.8         161KV'         85         -0.00004         PSP         CUNNINGHAM 230KV'         196         0.16594         -0.16598         7           AEPW         IAEP-CT0213.8         161KV'         85         -0.00004         SPS         CUNNINGHAM 230KV'         196         0.16594         -0.16598         7           AEPW         IAEP-CT0513.8         161KV'         85         -0.00004         SPS         CUNNINGHAM 230KV'         196         0.16594         -0.16598         7           AEPW         IAEP-CT0513.8         161KV         85         -0.00004         SPS         CUNNINGHAM 230KV'         196         0.16594         -0.16598         7           AEPW         IAH-CC C118.0         138KV'         150         -0.00006         SPS         CUNNINGHAM 230KV'         196         0.16594         -0.1666         7           AEPW         IAH-CC C118.0         138KV'         150         -0.00006         SPS         CUNNINGHAM 230KV'         196         0.16594         -0.166         7           AEP	WEPL							7
AEPW         AEP-CT0313.8         161KV'         85         -0.0004         SPS         CUNNINGHAM 230KV'         196         0.16594         -0.16598         7           AEPW         AEP-CT0313.8         161KV'         85         -0.00004         SPS         CUNNINGHAM 230KV'         196         0.16594         -0.16598         7           AEPW         AEP-CT0313.8         161KV'         85         -0.00004         SPS         CUNNINGHAM 230KV'         196         0.16594         -0.16598         7           AEPW         AEP-CT0313.8         161KV         85         -0.00004         SPS         CUNNINGHAM 230KV'         196         0.16594         -0.16598         7           AEPW         AH-CC_C118.0         138KV         85         -0.00006         SPS         CUNNINGHAM 230KV'         196         0.16594         -0.16594         -0.1669         7           AEPW         AH-CC_C118.0         138KV         150         -0.00006         SPS         CUNNINGHAM 230KV'         196         0.16594         -0.166         7           AEPW         AH-CC_C318.0         138KV         150         -0.00006         SPS         CUNNINGHAM 230KV'         196         0.16594         -0.166         7								7
AEPW         IAEP-CT0413.8         161KV'         85         -0.0004         SPS         CUNNINGHAM         230KV'         196         0.16594         -0.16598         7           AEPW         IAEP-CT0613.8         161KV'         85         -0.00004         SPS         CUNNINGHAM         230KV'         196         0.16594         -0.16598         7           AEPW         IAEP-CT0613.8         161KV'         85         -0.00004         SPS         CUNNINGHAM         230KV'         196         0.16594         -0.16598         7           AEPW         IAE-C_C18.0         138 K0'         150         -0.00004         SPS         CUNNINGHAM         230KV'         196         0.16594         -0.16598         7           AEFW         IAH-CC_C18.0         138KV'         150         -0.00006         SPS         CUNNINGHAM         230KV'         196         0.16594         -0.166         7           AEFW         IAH-CC_C218.0         138KV'         150         -0.00006         SPS         CUNNINGHAM         230KV'         196         0.16594         -0.166         7           AEFW         IAH-CC_C218.0         138KV'         250         -0.00006         SPS         CUNNINGHAM         230KV'								7
AEPW         IAEP-CT0413.8 161KV'         85         -0.00004 [SPS         CUNNINGHAM 230KV'         196         0.16594         -0.16598         7           AEPW         IAEP-CT0513.8 161KV'         85         -0.00004 [SPS         CUNNINGHAM 230KV'         196         0.16594         -0.16598         7           AEPW         IAEP-CT0513.8 161KV'         85         -0.00004 [SPS         CUNNINGHAM 230KV'         196         0.16594         -0.16598         7           AEPW         IAEP-CT0513.8 161KV'         85         -0.00004 [SPS         CUNNINGHAM 230KV'         196         0.16594         -0.16598         7           AEPW         IAH-CC_C118.0 138KV         150         -0.00006 [SPS         CUNNINGHAM 230KV'         196         0.16594         -0.1666         7           AEPW         IAH-CC_C218.0 138KV'         150         -0.00006 [SPS         CUNNINGHAM 230KV'         196         0.16594         -0.166         7           AEPW         IAH-CC_C218.0 138KV'         250         -0.00006 [SPS         CUNNINGHAM 230KV'         196         0.16594         -0.166         7           AEPW         IAH-CC_118.0 138KV'         250         -0.00006 [SPS         CUNNINGHAM 230KV'         196         0.16594         -0.166         7					CUNNINGHAM 230KV			7
AEPW         IAEP-CT0613.8         161KV'         85         -0.0004         ISPS         CUNNINGHAM         200KV'         196         0.16594         -0.16598         7           AEPW         IAH-CC_C118.0         138KV'         150         -0.00006         ISPS         CUNNINGHAM         200KV'         196         0.16594         -0.1669         7           AEPW         IAH-CC_C218.0         138KV'         150         -0.00006         ISPS         CUNNINGHAM         200KV'         196         0.16594         -0.166         7           AEPW         IAH-CC_C218.0         138KV'         250         -0.00006         ISPS         CUNNINGHAM         200KV'         196         0.16594         -0.166         7           AEPW         IAH-CC_C218.0         138KV'         250         -0.00006         ISPS         CUNNINGHAM         200KV'         196         0.16594         -0.166         7           AEPW         IAH-CC_218.0         138KV'         99         -0.00006         ISPS         CUNNINGHAM         200KV'         196         0.16594         -0.166         7           AEPW         IARSENAL HILL 69KV'         99         -0.0006         ISPS         CUNNINGHAM         20KV'         196					'CUNNINGHAM 230KV'			7
AEPW         IAEP-CT0613.8 161KV'         85         -0.0004 [SPS         CUNNINGHAM 230KV'         196         0.16594         -0.16598         7           AEPW         IAH-CC_C118.0 138KV'         150         -0.00006 [SPS         CUNNINGHAM 230KV'         196         0.16594         -0.1666         7           AEPW         IAH-CC_C18.0 138KV         150         -0.00006 [SPS         CUNNINGHAM 230KV'         196         0.16594         -0.166         7           AEPW         IAH-CC_C18.0 138KV         250         -0.00006 [SPS         CUNNINGHAM 230KV'         196         0.16594         -0.166         7           AEPW         IAH-CC_C18.0 138KV         250         -0.00006 [SPS         CUNNINGHAM 230KV'         196         0.16594         -0.166         7           AEPW         IAH-CC_C18.0 138KV         250         -0.00006 [SPS         CUNNINGHAM 230KV'         196         0.16594         -0.166         7           AEPW         IAH-CC_C18.0 138KV         99         -0.00006 [SPS         CUNNINGHAM 230KV'         196         0.16594         -0.166         7           AEPW         IAH-CC_C18.0 138KV         99         -0.00006 [SPS         CUNNINGHAM 230KV'         196         0.16594         -0.166         7					CUNNINGHAM 230KV			7
AEPW         IAH-CC_C218.0         138KV'         150         -0.00006 [SPS         CUNNINGHAM 230KV'         196         0.16594         -0.166         7           AEPW         IAH-CC_C318.0         138KV'         250         -0.00006 [SPS         CUNNINGHAM 230KV'         196         0.16594         -0.166         7           AEPW         IAH-CC_C318.0         138KV'         250         -0.00006 [SPS         CUNNINGHAM 230KV'         196         0.16594         -0.166         7           AEPW         IARSENAL HILL 69KV'         99         -0.0006 [SPS         'CUNNINGHAM 230KV'         196         0.16594         -0.166         7           Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.         -0.166         7								7
AEPW         IAH-CC_C218.0 138KV'         150         -0.0006 [SPS         'CUNNINGHAM 230KV'         196         0.16594         -0.166         7           AEPW         IAH-CC_ST18.0 138KV'         250         -0.0006 [SPS         'CUNNINGHAM 230KV'         196         0.16594         -0.166         7           AEPW         IAH-CC_ST18.0 138KV'         99         -0.0006 [SPS         'CUNNINGHAM 230KV'         196         0.16594         -0.166         7           AEPW         IARSENAL HILL 69KV'         99         -0.0006 [SPS         'CUNNINGHAM 230KV'         196         0.16594         -0.166         7           Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.         -0.166         7		'AH-CC_C118.0 138KV'						7
AEPW ARSENAL HILL 69KV' 99 -0.00006 SPS CUNNINGHAM 230KV' 196 0.16594 -0.166 7 Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.								7
Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.					CUNNINGHAM 230KV			7
Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.		'ARSENAL HILL 69KV'				196	0.16594 -0.166	7
		aximum Increment were determine from the Souce and Sink Ope	rating Points in the	study models where li	niting facility was identified.			

 AEPW
 198
 -0.00006[SPS
 CUNNINGHAM 230KV

 Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.
 Factor = Source GSF - Sink GSF

 Redispatch Amount = Relief Amount / Factor
 Redispatch Amount = Relief Amount / Factor
 Redispatch Amount = Relief Amount / Factor

Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed:	LINWOOD - MCWILLIE STREET 138KV CKT 1 LINWOOD - MCWILLIE STREET 138KV CKT 1 Fram->To HARTS ISLAND - SOUTH SHREVEPORT 138KV CKT 1 53422534281534145344611407SP 6/107 - 10/10475344611407SP 2007 Summer Peak	Aggregate Relief	1						
Reservation	Relief Amount	Amount							
1158760			1						
1130700		. 5.0		Sink					Aggregate
1		Maximum		Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	CELE	'ACADIA 138KV'	325.7239	0.00547	-0.50819	11
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272		'BAYOU RAMOS 138KV'	27.8225	0.00484	-0.50756	
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272		D.G. HUNTER POWER STATION 138KV	66.64043	0.013	-0.51572	
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272		'DOLET HILLS 345KV'	338.4988	0.0326	-0.53532	
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272		'EVANGELINE 138KV'	148.2809	0.00939	-0.51211	11
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272		'EVANGELINE 230KV'	183.9213	0.01003	-0.51275	
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272		'NATCHITOCHES 69KV'	17.78511	0.02366	-0.52638	11
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272		'RODEMACHER 230KV'	619.588	0.0143	-0.51702	
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272		TECHE 138KV	236.2347	0.00554	-0.50826	
AEPW	'AH-CC_C218.0 138KV'	150	-0.50272		'ACADIA 138KV'	325.7239	0.00547	-0.50819	
AEPW	'AH-CC_C218.0 138KV'	150	-0.50272		'BAYOU RAMOS 138KV'	27.8225	0.00484	-0.50756	
AEPW	'AH-CC_C218.0 138KV'	150	-0.50272		'D.G. HUNTER POWER STATION 138KV'	66.64043	0.013	-0.51572	
AEPW	'AH-CC_C218.0 138KV'	150	-0.50272		'DOLET HILLS 345KV'	338.4988	0.0326	-0.53532	
AEPW	'AH-CC_C218.0 138KV'	150	-0.50272		'EVANGELINE 138KV'	148.2809	0.00939	-0.51211	11
AEPW	'AH-CC_C218.0 138KV'	150	-0.50272		'EVANGELINE 230KV'	183.9213	0.01003	-0.51275	
AEPW	'AH-CC_C218.0 138KV'	150	-0.50272		'NATCHITOCHES 69KV'	17.78511	0.02366	-0.52638	
AEPW	'AH-CC_C218.0 138KV'	150	-0.50272		'RODEMACHER 230KV'	619.588	0.0143	-0.51702	
AEPW	'AH-CC_C218.0 138KV'	150	-0.50272	CELE	TECHE 138KV	236.2347	0.00554	-0.50826	11

45044	111 00 0710 0 100101	050	0.50070		1404014 400101	005 7000	0.005.47	0.50040	
AEPW	'AH-CC_ST18.0 138KV'	250	-0.50272		'ACADIA 138KV'	325.7239	0.00547	-0.50819	11
AEPW	'AH-CC_ST18.0 138KV'	250	-0.50272		'BAYOU RAMOS 138KV'	27.8225	0.00484	-0.50756	11
AEPW	'AH-CC_ST18.0 138KV'	250	-0.50272	CELE	'D.G. HUNTER POWER STATION 138KV'	66.64043	0.013	-0.51572	11
AEPW	'AH-CC_ST18.0 138KV'	250	-0.50272	CELE	'DOLET HILLS 345KV'	338.4988	0.0326	-0.53532	11
AFPW	'AH-CC_ST18.0 138KV'	250	-0.50272	CELE	'EVANGELINE 138KV'	148.2809	0.00939	-0.51211	11
AEPW	'AH-CC_ST18.0 138KV'	250	-0.50272	CELE	'EVANGELINE 230KV'	183.9213	0.01003	-0.51275	11
AEPW		250	-0.50272			17.78511	0.02366	-0.52638	11
	'AH-CC_ST18.0 138KV'				NATCHITOCHES 69KV				
AEPW	'AH-CC_ST18.0 138KV'	250	-0.50272	CELE	'RODEMACHER 230KV'	619.588	0.0143	-0.51702	11
AEPW	'AH-CC_ST18.0 138KV'	250	-0.50272	CELE	TECHE 138KV	236.2347	0.00554	-0.50826	11
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00292	-0.4998	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	AEPW	'AEP-CT0113.8 161KV'	85	-0.00343	-0.49929	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	AEPW	'AEP-CT0213.8 161KV'	75	-0.00343	-0.49929	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	OKGE	'AES 161KV'	320	-0.00276	-0.49996	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	WFEC	'ANADARKO 138KV'	283.1673	-0.00549	-0.49723	12
AFPW	'AH-CC_C118.0 138KV'	150	-0.50272	FMDF	ASBURY 161KV	191	-0.00311	-0.49961	12
AEPW		150	-0.50272	SWPA	BEAVER 161KV	134.0936	-0.003	-0.49972	12
	'AH-CC_C118.0 138KV'								
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	SPS	'BLACKHAWK 115KV'	220	-0.00451	-0.49821	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	GRDA	BOOMER 69KV	24	-0.00454	-0.49818	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	-0.00298	-0.49974	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	SWPA	'BROKEN BOW 138KV'	92.4532	-0.01139	-0.49133	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	SWPA	'BULL SHOALS 161KV'	275.8748	-0.00193	-0.50079	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	SPS	CAPROCK 115KV	8	-0.00468	-0.49804	12
AFPW	'AH-CC_C118.0_138KV'	150	-0.50272	SWPA	CARTHAGE 69KV	30	-0.00302	-0.4997	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	WERE	CHANUTE 69KV	56.723	-0.00302	-0.49942	12
AEPW		150	-0.50272	WERE	CITY OF AUGUSTA 69KV		-0.00347	-0.49942	12
	'AH-CC_C118.0 138KV'					24			
AEPW	'AH-CC_C118.0 138KV' 'AH-CC_C118.0 138KV'	150	-0.50272	WERE	CITY OF BURLINGTON 69KV	34.753	-0.0032	-0.49952	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272		'CITY OF ERIE 69KV'	23.27	-0.0033	-0.49942	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	WERE	'CITY OF GIRARD 69KV'	4.789	-0.00318	-0.49954	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272		'CITY OF HOUMA SUB 115KV'	84	0.00377	-0.50649	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	WERE	CITY OF IOLA 69KV	24.267	-0.00324	-0.49948	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	WERE	CITY OF MULVANE 69KV	8.288	-0.00349	-0.49923	12
AEPW	'AH-CC_C118.0 138KV'	150		WERE	'CITY OF NEODESHA 69KV'	4.494	-0.00341	-0.49931	12
AEPW	'AH-CC C118.0 138KV'	150	-0.50272	WERE	CITY OF WINFIELD 69KV	27.962	-0.00385	-0.49887	12
AFPW	'AH-CC_C118.0 138KV'	150	-0.50272		CLARENCE CANNON DAM 69KV	38.70126	-0.00385	-0.50097	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	WERE	CLR_1 .575 34KV	38.70120	-0.00336	-0.49936	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	-0.0032	-0.49952	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	AEPW	COGENTRIX 345KV	300	-0.00416	-0.49856	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	WERE	'COLBY 115KV'	5.870976	-0.00302	-0.4997	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272		'COMANCHE 138KV'	160	-0.00553	-0.49719	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	AEPW	COMANCHE 69KV	63	-0.00554	-0.49718	12
AEPW	'AH-CC_C118.0_138KV'	150	-0.50272	SPS	CUNNINGHAM 115KV	181	-0.00472	-0.498	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	SPS	CUNNINGHAM 230KV	306	-0.00472	-0.498	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	SPS	'CZ 69KV'	39	-0.00458	-0.49814	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272		'DENISON 138KV'	58.79786	-0.00677	-0.49595	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	AEPW	'EASTMAN 138KV'	355	-0.0127	-0.49002	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	EMDE	'ELK RIVER 345KV'	150	-0.00336	-0.49936	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	SWPA	'EUFAULA 138KV'	50.48301	-0.00387	-0.49885	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	SWPA	EUFAULA 161KV	68.89445	-0.00386	-0.49886	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272		'EVANS ENERGY CENTER 138KV'	548.9756	-0.00351	-0.49921	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	AEPW	'FITZHUGH 161KV'	30.99999	-0.00241	-0.50031	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	AEPW	'FLINT CREEK 161KV'	420	-0.00346	-0.49926	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	WERE	'GILL ENERGY CENTER 138KV'	171	-0.0035	-0.49922	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	WERE	'GILL ENERGY CENTER 69KV'	45	-0.00351	-0.49921	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272		'GRDA1 161KV'	189.2905	-0.00369	-0.49903	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	GRDA	'GRDA1 345KV'	220	-0.00368	-0.49904	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	SWPA	'GREERS FERRY 161KV'	92.4532	-0.00116	-0.50156	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	SPS	'HARRINGTON 230KV'	1066	-0.0045	-0.49822	12
AEPW	'AH-CC_C118.0_138KV'	150	-0.50272	OKGE	'HORSESHOE LAKE 138KV'	573.4165	-0.00523	-0.49749	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	OKGE	HORSESHOE LAKE 69KV	16	-0.00523	-0.49749	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	SPS	HUBRCO2 69KV	10	-0.00323	-0.49821	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	WFEC	HUGO 138KV	450	-0.00965	-0.49307	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	-0.00301	-0.49971	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	-0.00301	-0.49971	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	SWPA	'INDEPENDENCE 161KV'	12.86822	-0.0011	-0.50162	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	LEPA	'IRION SUB 230KV'	24	0.00367	-0.50639	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	SWPA	'JAMES RIVER 161KV'	159	-0.00262	-0.5001	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	SWPA	'JAMES RIVER 69KV'	233.16	-0.00262	-0.5001	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00285	-0.49987	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00285	-0.49987	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	SPS	JONES 230KV	486	-0.00478	-0.49794	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	SWPA	JONESBORO 161KV	43	-0.00089	-0.50183	12
AFPW	'AH-CC_C118.0_138KV'	150	-0.50272	SWPA	KENNETT 69KV	7.2	-0.00088	-0.50184	12
AEPW	'AH-CC_C118.0_138KV'	150	-0.50272	GRDA	KERR 115KV	13.5	-0.00366	-0.49906	12
AEPW		150		GRDA	KERR 161KV			-0.49906	
AEPW	'AH-CC_C118.0_138KV'	150	-0.50272 -0.50272	SWPA	KEYSTONE DAM 161KV	13.5 148.6774	-0.00367	-0.49905	12 12
	'AH-CC_C118.0 138KV'								
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	AEPW	'KNOXLEE 138KV'	155.3765	-0.00881	-0.49391	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	AEPW	'L&D13 69KV'	11	-0.00278	-0.49994	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	EMDE	'LARUSSEL 161KV'	106.5474	-0.00295	-0.49977	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	WERE	'LAWRENCE ENERGY CENTER 230KV'	232.2107	-0.00282	-0.4999	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272	AEPW	'LEBROCK 345KV'	515	-0.0179	-0.48482	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272		'LP-BRND2 69KV'	20	-0.00479	-0.49793	12
AEPW	'AH-CC_C118.0 138KV'	150	-0.50272		'LP-MACK2 69KV'	60	-0.00479	-0.49793	12
	wimum Increment were determine from the Souce and Sink Oper								

AEPW [AH-CC\_C118.0 138KV' 150] -0.50272[SPS [LP-MACK2 69KV' Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified. Factor = Source GSF - Sink GSF Redispatch Amount = Relief Amount / Factor

Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed:	LINWOOD - MCWILLIE STREET 138KV CKT 1 LINWOOD - MCWILLIE STREET 138KV CKT 1 From->To HARTS ISLAND - SOUTH SHREVEPORT 138KV CKT 1 53422534281534145344611408SP Starting 2008 6// - 10/1 Until EOC 2008 Summer Peak	Aggregate Relief	7						
Reservation	Relief Amount	Amount	1						
1158760	5.		đ						
1158761	5.								
1162763	3.								
1162766									
				Sink					Aggregate
		Maximum	1	Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
AEPW	'AH-CC_C118.0 138KV'	150			'DOLET HILLS 345KV'	338.6819	0.03261	-0.53533	
AEPW	'AH-CC_C218.0 138KV'	150			'DOLET HILLS 345KV'	338.6819	0.03261	-0.53533	
AEPW	'AH-CC_ST18.0 138KV'	250			'DOLET HILLS 345KV'	338.6819	0.03261	-0.53533	
AEPW	'AH-CC_C118.0 138KV'	150			'NATCHITOCHES 69KV'	17.79226	0.02366	-0.52638	
AEPW	'AH-CC_C218.0 138KV'	150			'NATCHITOCHES 69KV'	17.79226	0.02366	-0.52638	37
AEPW	'AH-CC_ST18.0 138KV'	250			'NATCHITOCHES 69KV'	17.79226	0.02366	-0.52638	37
AEPW	'AH-CC_C118.0 138KV'	150			'ACADIA 138KV'	325.8796	0.00547	-0.50819	
AEPW	'AH-CC_C118.0 138KV'	150			'BAYOU RAMOS 138KV'	29.82661	0.00484	-0.50756	38
AEPW	'AH-CC_C118.0 138KV'	150			'CITY OF HOUMA SUB 115KV'	84	0.00377	-0.50649	
AEPW	'AH-CC_C118.0 138KV'	150			'D.G. HUNTER POWER STATION 138KV'	90.8363	0.013	-0.51572	38
AEPW	'AH-CC_C118.0 138KV'	150			'EVANGELINE 138KV'	148.3381	0.00939	-0.51211	38
AEPW	'AH-CC_C118.0 138KV'	150			'EVANGELINE 230KV'	184.0071	0.01003	-0.51275	
AEPW	'AH-CC_C118.0 138KV'	150			'IRION SUB 230KV'	25	0.00367	-0.50639	
AEPW	'AH-CC_C118.0 138KV'	150			'RODEMACHER 230KV'	619.8556	0.0143	-0.51702	38
AEPW	'AH-CC_C118.0 138KV'	150			TECHE 138KV	238.5257	0.00554	-0.50826	
AEPW	'AH-CC_C218.0 138KV'	150	-0.50272	CELE	'ACADIA 138KV'	325.8796	0.00547	-0.50819	38

	'AH-CC_C218.0 138KV'	150	-0.50272 LEPA	'BAYOU RAMOS 138KV'	20.00001	0.00484 -0.50756
AEPW AEPW	AH-CC_C218.0 138KV	150	-0.50272 LEPA	CITY OF HOUMA SUB 115KV	29.82661	0.00484 -0.50756
AEPW	AH-CC_C218.0 138KV	150	-0.50272 CELE	D.G. HUNTER POWER STATION 138KV	90.8363	0.013 -0.51572
AFPW		150	-0.50272 CELE	'EVANGELINE 138KV'	90.8363	0.00939 -0.51211
AEPW	'AH-CC_C218.0 138KV' 'AH-CC_C218.0 138KV'	150	-0.50272 CELE	'EVANGELINE 230KV'	146.3361 184.0071	0.01003 -0.51275
EPW						
	'AH-CC_C218.0 138KV'	150	-0.50272 LEPA	'IRION SUB 230KV'	25	0.00367 -0.50639
EPW	'AH-CC_C218.0 138KV'	150	-0.50272 CELE	'RODEMACHER 230KV'	619.8556	0.0143 -0.51702
EPW	'AH-CC_C218.0 138KV'	150	-0.50272 CELE	'TECHE 138KV'	238.5257	0.00554 -0.50826
EPW	'AH-CC_ST18.0 138KV'	250	-0.50272 CELE	'ACADIA 138KV'	325.8796	0.00547 -0.50819
EPW	'AH-CC_ST18.0 138KV'	250	-0.50272 LEPA	'BAYOU RAMOS 138KV'	29.82661	0.00484 -0.50756
EPW	'AH-CC_ST18.0 138KV'	250	-0.50272 LEPA	'CITY OF HOUMA SUB 115KV'	84	0.00377 -0.50649
=PW	'AH-CC_ST18.0 138KV'	250	-0.50272 CELE	'D.G. HUNTER POWER STATION 138KV'	90.8363	0.013 -0.51572
PW	'AH-CC_ST18.0 138KV'	250	-0.50272 CELE	'EVANGELINE 138KV'	148.3381	0.00939 -0.51211
PW	AH-CC_ST18.0 138KV	250	-0.50272 CELE	'EVANGELINE 230KV'	184.0071	0.01003 -0.51275
PW	AH-CC_ST18.0_138KV	250	-0.50272 LEPA	IRION SUB 230KV		0.01003 -0.51275
					25	
PW	'AH-CC_ST18.0 138KV'	250	-0.50272 CELE	'RODEMACHER 230KV'	619.8556	0.0143 -0.51702
PW	'AH-CC_ST18.0 138KV'	250	-0.50272 CELE	'TECHE 138KV'	238.5257	0.00554 -0.50826
PW	'AH-CC_C118.0 138KV'	150	-0.50272 WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00293 -0.49979
PW	'AH-CC_C118.0 138KV'	150	-0.50272 AEPW	'AEP-CT0113.8 161KV'	85	-0.00344 -0.49928
PW	'AH-CC_C118.0 138KV'	150	-0.50272 AEPW	'AEP-CT0213.8 161KV'	85	-0.00344 -0.49928
PW	'AH-CC_C118.0 138KV'	150	-0.50272 AEPW	'AEP-CT0313.8 161KV'	85	-0.00344 -0.49928
PW		150				
	'AH-CC_C118.0 138KV'			'AEP-CT0413.8 161KV'	65	
PW	'AH-CC_C118.0 138KV'	150	-0.50272 OKGE	'AES 161KV'	320	-0.00275 -0.49997
PW	'AH-CC_C118.0 138KV'	150	-0.50272 WFEC	'ANADARKO 138KV'	282.6765	-0.00549 -0.49723
PW	'AH-CC_C118.0 138KV'	150	-0.50272 EMDE	'ASBURY 161KV'	191	-0.00311 -0.49961
PW	'AH-CC_C118.0 138KV'	150	-0.50272 SWPA	'BEAVER 161KV'	136.7476	-0.00301 -0.49971
PW	AH-CC_C118.0 138KV	150	-0.50272 SPS	'BLACKHAWK 115KV'	220	-0.00452 -0.4982
PW	AH-CC_C118.0 138KV	150	-0.50272 GRDA	BOOMER 69KV'	220	-0.00452 -0.49818
PW		150		BOUMER BARV BPU - CITY OF MCPHERSON 115KV'	135	
	'AH-CC_C118.0 138KV'		-0.50272 WERE			
PW	'AH-CC_C118.0 138KV'	150	-0.50272 SWPA	'BULL SHOALS 161KV'	276.6114	-0.00194 -0.50078
PW	'AH-CC_C118.0 138KV'	150	-0.50272 SWPA	'CARTHAGE 69KV'	32	-0.00302 -0.4997
PW	'AH-CC_C118.0 138KV'	150	-0.50272 WERE	'CHANUTE 69KV'	55.637	-0.0033 -0.49942
PW	'AH-CC_C118.0 138KV'	150	-0.50272 WERE	'CITY OF AUGUSTA 69KV'	24	-0.00346 -0.49926
PW	'AH-CC_C118.0 138KV'	150	-0.50272 WERE	'CITY OF BURLINGTON 69KV'	34.061	-0.0032 -0.49952
PW	'AH-CC_C118.0 138KV'	150	-0.50272 WERE	'CITY OF ERIE 69KV'	23.374	-0.0033 -0.49942
PW	'AH-CC_C118.0 138KV'	150	-0.50272 WERE	CITY OF IOLA 69KV	24.471	-0.00324 -0.49948
PW	'AH-CC_C118.0 138KV'	150	-0.50272 WERE	CITY OF WINFIELD 69KV	26.77	-0.00384 -0.49888
PW	AH*CC_C118.0 138RV	150				
	'AH-CC_C118.0 138KV'		-0.50272 SWPA	'CLARENCE CANNON DAM 69KV'	38.90696	-0.00175 -0.50097
PW	'AH-CC_C118.0 138KV'	150	-0.50272 WERE	'CLR_1 .575 34KV'	102	-0.00336 -0.49936
PW	'AH-CC_C118.0 138KV'	150	-0.50272 WERE	'CLR_2 .575 34KV'	100	-0.00336 -0.49936
PW	'AH-CC_C118.0 138KV'	150	-0.50272 WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	-0.0032 -0.49952
PW	'AH-CC_C118.0 138KV'	150	-0.50272 AEPW	COGENTRIX 345KV	300	-0.00416 -0.49856
EPW	'AH-CC_C118.0 138KV'	150	-0.50272 AEPW	COMANCHE 138KV	160	-0.00552 -0.4972
PW	'AH-CC_C118.0 138KV'	150	-0.50272 AEPW	COMANCHE 69KV	63	-0.00553 -0.49719
PW	'AH-CC_C118.0 138KV'	150	-0.50272 SPS	CUNNINGHAM 115KV	181	-0.00472 -0.498
		150			306	
PW	'AH-CC_C118.0 138KV'		-0.50272 SPS	CUNNINGHAM 230KV		-0.00472 -0.498
EPW	'AH-CC_C118.0 138KV'	150	-0.50272 SPS	'CZ 69KV'	39	
EPW	'AH-CC_C118.0 138KV'	150	-0.50272 SWPA	'DENISON 138KV'	59.00515	-0.00677 -0.49595
EPW	'AH-CC_C118.0 138KV'	150	-0.50272 EMDE	'ELK RIVER 345KV'	150	-0.00336 -0.49936
PW	'AH-CC_C118.0 138KV'	150	-0.50272 SWPA	'EUFAULA 138KV'	50.49099	-0.00387 -0.49885
PW	'AH-CC_C118.0 138KV'	150	-0.50272 SWPA	'EUFAULA 161KV'	69.10335	-0.00386 -0.49886
PW	'AH-CC_C118.0 138KV'	150	-0.50272 WERE	'EVANS ENERGY CENTER 138KV'	510	-0.00351 -0.49921
PW	AH-CC C118.0 138KV	150	-0.50272 AEPW	'FITZHUGH 161KV'	101	-0.00241 -0.50031
PW		150	-0.50272 AET W		428	
	'AH-CC_C118.0 138KV'		-0.50272 AEPW	'FLINT CREEK 161KV'		-0.00346 -0.49926
PW	'AH-CC_C118.0 138KV'	150	-0.50272 WERE	'GILL ENERGY CENTER 138KV'	155	-0.00349 -0.49923
PW	'AH-CC_C118.0 138KV'	150	-0.50272 WERE	'GILL ENERGY CENTER 69KV'	45	-0.0035 -0.49922
PW	'AH-CC_C118.0 138KV'	150	-0.50272 GRDA	'GRDA1 161KV'	190	
PW	'AH-CC_C118.0 138KV'	150	-0.50272 GRDA	'GRDA1 345KV'	220	-0.00368 -0.49904
PW	'AH-CC_C118.0 138KV'	150	-0.50272 SWPA	'GREERS FERRY 161KV'	92.66582	-0.00116 -0.50156
PW	AH-CC_C118.0 138KV	150	-0.50272 SPS	'HARRINGTON 230KV'	1066	-0.00451 -0.49821
PW		150	-0.50272 OKGE	HARRINGTON 230RV	851.5	-0.00523 -0.49749
	'AH-CC_C118.0 138KV'				851.5	
PW	'AH-CC_C118.0 138KV'	150	-0.50272 OKGE	'HORSESHOE LAKE 69KV'		-0.00523 -0.49749
PW	'AH-CC_C118.0 138KV'	150	-0.50272 WFEC	'HUGO 138KV'	450	-0.00965 -0.49307
PW	'AH-CC_C118.0 138KV'	150	-0.50272 WERE	'HUTCHINSON ENERGY CENTER 115KV'	239.4126	-0.003 -0.49972
PW	'AH-CC_C118.0 138KV'	150	-0.50272 WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	-0.003 -0.49972
PW	'AH-CC_C118.0 138KV'	150	-0.50272 SWPA	'JAMES RIVER 161KV'	159	-0.00262 -0.5001
PW	'AH-CC_C118.0 138KV'	150	-0.50272 SWPA	'JAMES RIVER 69KV'	233.2277	-0.00263 -0.50009
PW	'AH-CC_C118.0 138KV'	150	-0.50272 WERE	JEFFREY ENERGY CENTER 230KV	470	-0.00285 -0.49987
PW	'AH-CC_C118.0 138KV'	150	-0.50272 WERE	JEFFREY ENERGY CENTER 345KV	940	
PW	'AH-CC_C118.0 138KV'	150	-0.50272 SPS	JONES 230KV	486	-0.00283 -0.49587
PW		150		JONES 230KV JONESBORO 161KV	400	
PW	'AH-CC_C118.0 138KV' 'AH-CC_C118.0 138KV'	150	-0.50272 SWPA -0.50272 GRDA	KERR 115KV	43	
PW	'AH-CC_C118.0 138KV'	150	-0.50272 GRDA	'KERR 161KV'	13.5	-0.00367 -0.49905
PW	'AH-CC_C118.0 138KV'	150	-0.50272 SWPA	'KEYSTONE DAM 161KV'	149.0969	-0.00412 -0.4986
PW	'AH-CC_C118.0 138KV'	150	-0.50272 AEPW	'KNOXLEE 138KV'	103	-0.00881 -0.49391
PW	'AH-CC_C118.0 138KV'	150	-0.50272 WERE	'LANG 7 345 345KV'	310	-0.003 -0.49972
PW	'AH-CC_C118.0 138KV'	150	-0.50272 EMDE	'LARUSSEL 161KV'	116	-0.00295 -0.49977
PW	AH-CC C118.0 138KV	150	-0.50272 WERE	'LAWRENCE ENERGY CENTER 230KV'	227,4069	-0.00282 -0.4999
PW	AH-CC_C118.0 138KV	150	-0.50272 WERE	LAWRENCE ENERGY CENTER 230KV	227.4069	-0.00282 -0.4999
	'AH-CC_C118.0 138KV'	150	-0.50272 SPS	'LP-MACK2 69KV'	60	-0.00479 -0.49793
PW	'AH-CC_C118.0 138KV'	150	-0.50272 SPS	'MADOX 115KV'	183	-0.00472 -0.498
PW		150	-0.50272 SWPA	'MCCARTNEY 161KV'	100	
PW PW	'AH-CC_C118.0 138KV'					
PW		150	-0.50272 OKGE	'MCCLAIN 138KV'	478	-0.00532 -0.4974
PW PW PW PW	AH-CC_C118.0 138KV AH-CC_C118.0 138KV AH-CC_C118.0 138KV AH-CC_C118.0 138KV and Maximum Increment were determine from the Souce and S	150 150	-0.50272 SPS	'MOORE COUNTY 115KV'	478	

11	UNINGOD NOWILLE OTDEET (2010) OUT (								
Upgrade:	LINWOOD - MCWILLIE STREET 138KV CKT 1								
Limiting Facility:	LINWOOD - MCWILLIE STREET 138KV CKT 1								
Direction:	From->To								
Line Outage:	LONGWOOD (LONGWOOD) 345/138/13.2KV TRANSFORM	IER CKT 1							
Flowgate:	53422534281LONGNGWOOD7411408SP								
Date Redispatch Needed:	Starting 2008 6/1 - 10/1 Until EOC								
Season Flowgate Identified:	2008 Summer Peak								
		Aggregate Reli	ef						
Reservation	Relief Amount	Amount							
1158760			2.9						
1158761			2.9						
1162763			2.9						
1162766	i 0.	6	2.9						
				Sink					Aggregate
		Maximum		Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
AEPW	'AH-CC_C118.0 138KV'			B7 WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00319	-0.45368	6
AEPW	'AH-CC_C118.0 138KV'	1		B7 CELE	'ACADIA 138KV'	325.8796	0.00224	-0.45911	6
AEPW	'AH-CC_C118.0 138KV'	1	50 -0.456	87 AEPW	'AEP-CT0113.8 161KV'	85	-0.00369	-0.45318	6
AEPW	'AH-CC_C118.0 138KV'	1	50 -0.456	87 AEPW	'AEP-CT0213.8 161KV'	85	-0.00369	-0.45318	6
AEPW	'AH-CC_C118.0 138KV'	1	50 -0.456	87 AEPW	'AEP-CT0313.8 161KV'	85	-0.00369	-0.45318	6
AEPW	'AH-CC_C118.0 138KV'	1	50 -0.456	87 AEPW	'AEP-CT0413.8 161KV'	65	-0.00369	-0.45318	
AEPW	'AH-CC_C118.0 138KV'	1	50 -0.456	87 OKGE	'AES 161KV'	320	-0.00261	-0.45426	6
AEPW	'AH-CC_C118.0 138KV'	1	50 -0.456	B7 WFEC	'ANADARKO 138KV'	282.6765	-0.00628	-0.45059	e
AEPW	'AH-CC_C118.0 138KV'	1	50 -0.456	B7 EMDE	'ASBURY 161KV'	191	-0.00334	-0.45353	e
AEPW	'AH-CC_C118.0 138KV'	1	50 -0.456	87 LEPA	'BAYOU RAMOS 138KV'	29.82661	0.00221	-0.45908	e
AEPW	'AH-CC_C118.0_138KV'	1	50 -0.456	87 SWPA	'BEAVER 161KV'	136.7476	-0.00316	-0.45371	e
				07 000	BLACKHAWK 115KV	220	-0.00512	-0.45175	F
AEPW	'AH-CC_C118.0 138KV'	1	50 -0.456	5/ 323					
AEPW AEPW	'AH-CC_C118.0 138KV' 'AH-CC C118.0 138KV'			B7 GRDA	BOOMER 69KV	220	-0.00512	-0.4518	6

AEPW         2           AEPW         2           AEPW         2           AEPW         2           AEPW         2           AEPW         2           AEPW         1	AH-CC C118.0 AH-CC	138KV 13	1 155 155 155 155 155 155 155 155		BROKEN BOW 138KV           BULL SHOALS 161KV           CAPPACK 115KV           CARTHAGE 68KV           CHANUTE 69KV           CITY OF AUGUSTA 69KV           CITY OF BURLINGTON 69KV           CITY OF ERLE 69KV           CITY OF FELE 69KV           CITY OF GIRARD 69KV           CITY OF FOLOMIA 59K           CITY OF FOLOMIA 59KV           CITY OF FOLOMIA 59KV           CITY OF FOLDA 69KV           CITY OF MULANE 69KV           CITY OF MULANE           CUR 2. 575 34KV           COGENTRIX 34KV           COGENTRIX 345KV           COGENTRIX 345KV           COGENTRIX 345KV           COMANCHE 138KV	92.66582 276.6114 8 322 55.637 24 34.061 23.374 4.552 84 4.552 28.84 4.455 20.77 38.90696 1022 1000 119.98 3000 3.141304 160	-0.11322         -0.44385           -0.00179         -0.45508           -0.00531         -0.45508           -0.00321         -0.45366           -0.00331         -0.45366           -0.003341         -0.45336           -0.003341         -0.45336           -0.00341         -0.45338           -0.00342         -0.45338           -0.00343         -0.45322           -0.00343         -0.45324           -0.00343         -0.45324           -0.00344         -0.45374           -0.00351         -0.45376           -0.00342         -0.45376           -0.00343         -0.45376           -0.00344         -0.45376           -0.00345         -0.45376           -0.00346         -0.45371           -0.00348         -0.45371           -0.00348         -0.45371           -0.00348         -0.45371           -0.00348         -0.45371           -0.00348         -0.45371           -0.00348         -0.45371           -0.00348         -0.45371           -0.00348         -0.45371           -0.00348         -0.45371           -0.00348         -0.4537
AEPW         7	AH-CC C118.0 AH-CC C118.0	138KV 13	155 155 156 156 156 156 156 156	-0.45687 [SPS -0.45687] WERE -0.45687] KERE -0.45687] KERE -0.4568	CAPROCK 115KV           CARTHAGE 65KV           CHANUTE 69KV           CITY OF BURLINGTON 69KV           CITY OF ERLE 69KV           CITY OF FELDONIA 69KV           CITY OF GIRARD 69KV           CITY OF GRARD 69KV           CITY OF FOLDONIA 50B 115KV           CITY OF FOLDONIA 50B 115KV           CITY OF FOLDA 69KV           CITY OF MULANE 69KV           CITY OF MULANE 69KV           CLR 2. 575 34KV           COLR 2. 575 34KV           COGENTRIX 345KV           COGENTRIX 345KV           CODENTS 345KV           CODENT 15KV           COMARCHE 138KV	8 32 55.637 24 34.061 23.374 3.596 4.592 4.492 28.77 38.9066 102 100 19.98 3.000 19.98 3.000 3.141304	-0.00531         -0.45186           -0.00321         -0.45386           -0.00328         -0.45386           -0.00340         -0.45386           -0.00341         -0.45386           -0.00349         -0.45386           -0.00349         -0.45386           -0.00349         -0.45382           -0.00349         -0.45324           -0.00349         -0.45324           -0.00349         -0.45381           -0.00349         -0.45341           -0.00341         -0.45341           -0.00342         -0.45341           -0.00343         -0.45341           -0.00344         -0.45341           -0.00351         -0.45345           -0.00342         -0.45346           -0.00342         -0.45346           -0.00342         -0.45346           -0.00342         -0.45319           -0.00348         -0.45319           -0.00348         -0.45338           -0.00348         -0.45338           -0.003438         -0.45334
AEPW         )	AH-CC_C118.0 AH-CC	138KV 13	155 156 155 155 155 155 155 155 155 155	0.45687/WERE 0.45687/WERE	CARTHAGE 69KV'           CHANUTE 69KV           CITY OF AUGUSTA 69KV'           CITY OF ERLENGTON 69KV           CITY OF FERLE 69KV           CITY OF FERLE 69KV           CITY OF FOLDAL 69KV'           CITY OF FOLDAL 69KV           CITY OF FOLDAL 69KV           CITY OF FOLDAL 69KV           CITY OF FOLDAL 69KV           CITY OF MULVANE 69KV           CITY OF MOLDESHA 69KV           CITY OF WINFIELD 69KV           CITA CANNON DAM 69KV           CLR.2. 575 34KV           COGENTRIX 345KV           COGENTRIX 345KV           COGENTIX 345KV           COMARCHE 138KV	55.637 24 34.061 23.374 3.596 4.592 44 24.471 8.29 4.495 28.77 38.90696 102 100 19.98 300 3.141304	-0.00358         -0.45329           -0.00381         -0.45306           -0.00349         -0.45338           -0.00357         -0.45329           -0.00367         -0.45329           -0.00351         -0.45321           -0.00351         -0.45336           -0.00351         -0.45336           -0.00343         -0.45336           -0.00344         -0.45336           -0.00344         -0.45336           -0.00344         -0.45336           -0.00344         -0.45336           -0.00344         -0.45336           -0.00344         -0.45336           -0.00347         -0.45336           -0.00347         -0.45336           -0.00348         -0.45319           -0.00368         -0.45319           -0.00368         -0.45338           -0.00349         -0.45338           -0.00349         -0.45338           -0.00358         -0.45338           -0.00358         -0.45338
AEPW         7	AH-CC C118.0 AH-CC C18.0 AH-CC C18.	138KV 13	155 156 156 157 157 157 157 157 157 157 157 157 157	-0.45887 WERE -0.45887 KERE -0.45887 KERE -0	CITY OF AUGUSTA 68KV           CITY OF ERLENGTON 69KV           CITY OF ERLE 68KV           CITY OF FERLE 68KV           CITY OF FERLE 68KV           CITY OF GRAPD 69KV           CITY OF FOLDAN 5UB 115KV           CITY OF FOLDAN 69KV           CITY OF FOLDAN 5UB 115KV           CITY OF MULVANE 69KV           CITY OF MULVANE 69KV           CITY OF WINFIELD 68KV           CITY OF WINFIELD 68KV           CLR.2. 575 34KV           COGENTRIX 345KV           COGENTRIX 345KV           COGENTRIX 345KV           COMARCHE 138KV	244 34,061 23,374 3,596 4,592 84 24,471 8,29 4,495 26,77 38,90696 102 100 019,98 3000 3,141304	-0.0381         -0.45306           -0.03341         -0.45328           -0.0356         -0.45329           -0.00367         -0.45329           -0.00367         -0.45329           -0.00347         -0.45329           -0.00343         -0.45329           -0.00344         -0.4534           -0.00384         -0.45336           -0.00384         -0.45336           -0.00371         -0.45316           -0.00371         -0.45316           -0.00384         -0.45316           -0.00384         -0.45316           -0.00384         -0.45319           -0.00388         -0.45319           -0.00388         -0.45319           -0.00384         -0.45338           -0.00439         -0.45338           -0.00438         -0.45338           -0.00438         -0.45338           -0.00338         -0.4534
AEPW         7           AEPW         9           AEPW         1	AH-CC_C118.0 AH-CC_C18.0 AH-CC_C18.	138KV 13	159 159 150 150 150 150 150 155 155 155 155 155	-0.45687 WERE -0.45687 AEPW -0.45687 AEPW	CITY OF EURLINGTON 69KV           CITY OF FREBORNIA 69KV           CITY OF FREBORNIA 69KV           CITY OF FREBORNIA 69KV           CITY OF HOUMA SUB 115KV           CITY OF MULVANE 69KV           CITY OF NEODESHA 69KV           CITY OF NEODESHA 69KV           CLA ELST 534KV           CLR 1 .575 34KV           COGENTRIX .345KV           COGENTRIX .345KV           COGENTRIX .345KV           COMARCHE .138KV           COMARCHE .138KV	34.061 23.374 3.596 4.592 84 24.471 8.29 4.495 26.77 38.90696 102 100 19.98 300 0 3.141304	-0.0349 -0.45338 -0.0358 -0.45329 -0.03367 -0.4532 -0.0334 -0.4534 -0.0334 -0.45341 -0.03351 -0.45346 -0.0334 -0.45308 -0.0324 -0.45308 -0.00327 -0.4526 -0.00427 -0.4526 -0.00181 -0.45319 -0.00368 -0.45319 -0.00368 -0.45319 -0.00368 -0.45338 -0.00358 -0.45338
AEPW         )           AEPW         )      > AEPW         )      > AEPW<	AH-CC_C118.0 AH-CC_C18.0 AH-CC_C18.	138KV 13	156 156 156 155 155 155 155 155 155 155	-0.45687 WERE -0.45687 AEPW	CITY OF ERLE 69KV           CITY OF FEREDONIA 69KV           CITY OF GRAPD 69KV           CITY OF GRAPD 69KV           CITY OF IOLA 69KV           CITY OF IOLA 69KV           CITY OF MULVANE 69KV           CITY OF WINFIELD 69KV           CITY OF WINFIELD 69KV           CITA 575 34KV           CILR 2. 575 34KV           COGENTRIX 345KV           COGENTRIX 345KV           COGENTRIX 345KV           COMARCHE 138KV           COMARCHE 138KV	23,374 3,596 4,592 844 24,471 8,29 4,495 26,77 338,90696 102 100 19,98 300 3,141304	-0.00358         -0.45329           -0.00367         -0.4532           -0.00367         -0.4532           -0.00367         -0.4534           -0.00361         -0.45344           -0.00381         -0.45346           -0.00384         -0.45336           -0.00371         -0.45316           -0.00371         -0.45316           -0.00427         -0.4526           -0.00388         -0.45319           -0.00384         -0.45319           -0.00384         -0.45319           -0.00384         -0.45338           -0.00384         -0.45338           -0.00384         -0.45338           -0.00384         -0.45338           -0.00384         -0.45338
AEPW         7           AEPW         9           AEPW         1	AH-CC_C118.0 AH-CC_C18.0 AH-CC_C18.0	138KV 13	156 156 156 156 156 156 156 156 156 156	-0.45687 WERE -0.45687 AEPW	CITY OF FREDONIA 69K/'           CITY OF FORARD 69K/'           CITY OF HOUMA SUB 115KV'           CITY OF HOUMA SUB 115KV'           CITY OF NULVANE 69KV'           CITY OF NULVANE 69KV'           CITY OF NULVANE 69KV'           CITY OF NULVANE 69KV'           CLARENCE CANNON DAM 69KV'           CLR 1 575 34KV'           COGENTRIX 345KV'           COGENTRIX 345KV'           COMARCHE 138KV'	3.566 4.592 84 24.471 8.29 4.495 26.77 38.90696 102 100 19.98 300 3.141304	-0.0367 -0.4532 -0.0334 -0.4534 -0.0354 -0.4534 -0.0354 -0.45336 -0.0334 -0.45336 -0.0334 -0.45336 -0.00327 -0.4526 -0.00181 -0.45566 -0.00388 -0.45319 -0.00388 -0.45319 -0.00388 -0.45338 -0.00458 -0.45338
AEPW         7           AEPW         1	AH-CC C118.0 AH-CC C118.0	138KV 138KV	155 155 155 155 155 155 155 155 155 155	-0.45687 WERE -0.45687 AEPW -0.45687 AEPW -0.45687 AEPW	CITY OF GIRARD 69KV'           CITY OF IOLMA SUB 115KV           CITY OF IOLA 69KV           CITY OF IOLA 69KV           CITY OF MULVANE 69KV'           CITY OF WILVANE           CITY OF MULVANE           COLRENCE CANNON DAM 69KV'           COLR 2. 575 34KV           COLR 2. 575 34KV           COLRENCE COUNTY NO. 2 SHARPE 69KV'           COOGENTRIX 345KV           COMARCHE 138KV           COMARCHE 138KV	4.592 84 24.471 8.29 4.495 26.77 38.90696 102 100 19.98 300 3.141304	-0.00343         -0.45344           0.00184         -0.45376           -0.00351         -0.45336           -0.00384         -0.45336           -0.00371         -0.45336           -0.00371         -0.45316           -0.00371         -0.45316           -0.00381         -0.45316           -0.00311         -0.45366           -0.00368         -0.45319           -0.00368         -0.45319           -0.00384         -0.45338           -0.00434         -0.45338           -0.00438         -0.45334
AEPW         2           AEPW         1	AH-CC_C118.0 AH-CC_C18.0 AH-CC	138KV 13	150 155 155 155 155 155 155 155 155 155	0.45687 LEPA 0.45687 WERE 0.45687 AEPW 0.45687 AEPW	CITY OF HOUMA SUB 115KV           CITY OF HOLA 69KV           CITY OF NULVANE 69KV           CITY OF NULVANE 69KV           CITY OF NULVANE 69KV           CITY OF NULVANE 69KV           CLARENCE CANNON DAM 69KV           CLR. 1 . 575 34KV           COGENTRIX . 345KV           COGENTRIX . 345KV           COGENTRIX . 345KV           COMARCHE . 138KV	84 24.471 8.29 4.495 26.77 38.90696 102 100 19.98 300 3.141304	0.0184         -0.45871           -0.00351         -0.45336           -0.00351         -0.45303           -0.00371         -0.45305           -0.00427         -0.4526           -0.00427         -0.4526           -0.00384         -0.45319           -0.00368         -0.45319           -0.00368         -0.45338           -0.00438         -0.45338           -0.00438         -0.45334
AEPW         )           AEPW         )      AEPW         )	AH-CC_C118.0 AH-CC_C118.0	138KV 138KV	15( 15) 15( 15) 15( 15) 15( 15) 15( 15) 15( 15) 15( 15) 15( 15) 15( 15)	-0.45687 WERE -0.45687 WERE -0.45687 WERE -0.45687 WERE -0.45687 WERE -0.45687 WERE -0.45687 WERE -0.45687 WERE -0.45687 AEPW -0.45687 AEPW -0.45687 AEPW	CITY OF IOLA 69KV'           CITY OF NULVANE 69KV'           CITY OF NEODESHA 69KV'           CITY OF MENDFELD 69KV'           CLARENCE CANNON DAM 69KV'           CLR.2.575 34KV'           COLR 2.575 34KV'           COGENTRIX 345KV'           COGENTRIX 345KV'           COGENTRIX 345KV'           COMARCHE 138KV'	24.471 8.29 4.495 26.77 38.90696 102 100 19.98 300 3.141304	-0.00351         -0.45336           -0.00344         -0.45303           -0.00371         -0.45316           -0.00427         -0.4526           -0.00381         -0.45506           -0.00388         -0.45319           -0.00388         -0.45319           -0.00384         -0.45338           -0.00484         -0.45338           -0.00458         -0.45338           -0.00458         -0.45338           -0.00458         -0.45338
AEPW         )           AEPW         )      AEPW         )	AH-CC_C118.0 AH-CC_C118.0	138KV 138KV	15( 15) 15( 15) 15( 15) 15( 15) 15( 15) 15( 15) 15( 15) 15( 15) 15( 15)	-0.45687 WERE -0.45687 WERE -0.45687 WERE -0.45687 WERE -0.45687 WERE -0.45687 WERE -0.45687 WERE -0.45687 WERE -0.45687 AEPW -0.45687 AEPW -0.45687 AEPW	CITY OF IOLA 69KV'           CITY OF NULVANE 69KV'           CITY OF NEODESHA 69KV'           CITY OF MENDFELD 69KV'           CLARENCE CANNON DAM 69KV'           CLR.2.575 34KV'           COLR 2.575 34KV'           COGENTRIX 345KV'           COGENTRIX 345KV'           COGENTRIX 345KV'           COMARCHE 138KV'	24.471 8.29 4.495 26.77 38.90696 102 100 19.98 300 3.141304	-0.00351         -0.45336           -0.00344         -0.45303           -0.00371         -0.45316           -0.00427         -0.4526           -0.00381         -0.45506           -0.00388         -0.45319           -0.00388         -0.45319           -0.00384         -0.45338           -0.00484         -0.45338           -0.00458         -0.45338           -0.00458         -0.45338           -0.00458         -0.45338
AEPW         7	AH-CC C118.0 AH-CC C118.0	138KV 13	155 150 155 155 156 156 156 156 156 156 156 156	-0.45687 WERE -0.45687 WERE -0.45687 WERE -0.45687 SWPA -0.45687 SWPA -0.45687 WERE -0.45687 WERE -0.45687 WERE -0.45687 WERE -0.45687 WERE -0.45687 AEPW -0.45687 AEPW	CITY OF MULVANE 69KV'           CITY OF MULVANE 69KV'           CITY OF WINFIELD 69KV'           CLARENCE CANNON DAM 69KV'           CLR. 1. 575 34KV'           COFFEY COUNTY NO. 2 SHARPE 69KV'           COGENTRIX 345KV'           COGENTRIX 345KV'           COMANCHE 138KV'	4.495 26.77 38.90696 102 100 19.98 300 3.141304	-0.0384         -0.45303           -0.0371         -0.45316           -0.04271         -0.45316           -0.01211         -0.45266           -0.00388         -0.45319           -0.00368         -0.45319           -0.00388         -0.45319           -0.00384         -0.45319           -0.00384         -0.45338           -0.00494         -0.45338           -0.00494         -0.45338           -0.00438         -0.45338           -0.00334         -0.45334
AEPW         P	AH-CC_C118.0 AH-CC_C118.0	138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV	150 150 150 150 150 150 150 150 150 150	-0.45687 WERE -0.45687 SWPA -0.45687 WERE -0.45687 WERE -0.45687 WERE -0.45687 AEPW -0.45687 AEPW -0.45687 AEPW -0.45687 AEPW	CITY OF NEODESHA 69KV'           CITY OF WINFELD 69KV'           CLARENCE CANNON DAM 69KV'           CLR_1_575 34KV'           CLR_2_575 34KV'           COFFEY COUNTY NO. 2 SHARPE 69KV'           COGENTRIX 345KV'           COGENTRIX 345KV'           COMARCHE 138KV'	26.77 38.90696 102 100 19.98 300 3.141304	-0.00427 -0.4526 -0.00181 -0.45506 -0.00368 -0.45319 -0.00368 -0.45319 -0.00349 -0.45338 -0.00458 -0.45229 -0.00333 -0.45354
AEPW         7	AH-CC_C118.0 AH-CC_C118.0	138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV	150 155 150 155 155 155 155 155 155 155	-0.45687 WERE -0.45687 SWPA -0.45687 WERE -0.45687 WERE -0.45687 WERE -0.45687 AEPW -0.45687 AEPW -0.45687 AEPW -0.45687 AEPW	CITY OF WINFIELD 69KV'           CLARENCE CANNON DAM 69KV'           CUR.1575 34KV'           COFFEY COUNTY NO.2 SHARPE 69KV'           COGENTRIX 345KV'           COGENTRIX 345KV'           COGENTRIX 345KV'           COMANCHE 138KV'	38.90696 102 100 19.98 300 3.141304	-0.00427 -0.4526 -0.00181 -0.45506 -0.00368 -0.45319 -0.00368 -0.45319 -0.00349 -0.45338 -0.00458 -0.45229 -0.00333 -0.45354
AEPW         7           AEPW         1           AEPW         1      AEPW         1	AH-CC_C118.0	138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV	150 150 150 150 150 150 150 150 150 150	-0.45687 SWPA -0.45687 WERE -0.45687 WERE -0.45687 WERE -0.45687 AEPW -0.45687 WERE -0.45687 AEPW -0.45687 AEPW	CLARENCE CANNON DAM 69KV'           CLR, 1 .575 .34KV           CLR, 2 .575 .34KV           COFFEY COUNTY NO. 2 SHARPE 69KV'           COGENTRIX .345KV'           COGENTRIX .345KV           COMARCHE .138KV'	102 100 19.98 300 3.141304	-0.00181 -0.45506 -0.00368 -0.45319 -0.00368 -0.45319 -0.00349 -0.45338 -0.00349 -0.45338 -0.00458 -0.45229 -0.00333 -0.45354
AEPW         //           AEPW	AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0	138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV	150 150 150 150 150 150 150 150 150	-0.45687 WERE -0.45687 WERE -0.45687 AEPW -0.45687 WERE -0.45687 AEPW -0.45687 AEPW	CLR. 2. 575 34KV           COFFEY COUNTY NO. 2 SHARPE 69KV           COGENTRIX 345KV           COLEV 115KV           COMANCHE 138KV	100 19.98 300 3.141304	-0.00368         -0.45319           -0.00349         -0.45338           -0.00458         -0.45229           -0.00333         -0.45354
AEPW         )           AEPW         )      AEPW         )      A	AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0	138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV	150 150 150 150 150 150 150 150 150	-0.45687 WERE -0.45687 WERE -0.45687 AEPW -0.45687 WERE -0.45687 AEPW -0.45687 AEPW	CLR. 2. 575 34KV           COFFEY COUNTY NO. 2 SHARPE 69KV           COGENTRIX 345KV           COLEV 115KV           COMANCHE 138KV	100 19.98 300 3.141304	-0.00368         -0.45319           -0.00349         -0.45338           -0.00458         -0.45229           -0.00333         -0.45354
AEPW         )	AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0	138KV 13	150 150 150 150 150 150 150 150 150	-0.45687 WERE -0.45687 AEPW -0.45687 WERE -0.45687 AEPW -0.45687 AEPW	COFFEY COUNTY NO. 2 SHARPE 69KV' COGENTRIX 345KV' 'COLBY 115KV' COMANCHE 138KV'	19.98 300 3.141304	-0.00349 -0.45338 -0.00458 -0.45229 -0.00333 -0.45354
AEPW         1           AEPW         1      AEPW         1	AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0	138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV	150 150 150 150 150 150 150 150	-0.45687 AEPW -0.45687 WERE -0.45687 AEPW -0.45687 AEPW	COGENTRIX 345KV' COLBY 115KV' COMANCHE 138KV'	300 3.141304	-0.00458 -0.45229 -0.00333 -0.45354
AEPW         2           AEPW         7	AH-CC_C118.0	138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV	150 150 150 150 150	-0.45687 AEPW -0.45687 AEPW	COLBY 115KV' COMANCHE 138KV'		
AEPW         2           AEPW         7           AEPW         7           AEPW         7           AEPW         9           AEPW         9           AEPW         9           AEPW         9           AEPW         9           AEPW         9           AEPW         1           AEPW         2	AH-CC_C118.0           'AH-CC_C118.0	138KV 138KV 138KV 138KV 138KV 138KV 138KV 138KV	150 150 150 150 150	-0.45687 AEPW -0.45687 AEPW	COMANCHE 138KV		
AEPW         7	AH-CC_C118.0           'AH-CC_C118.0	138KV 138KV 138KV 138KV 138KV 138KV 138KV	150 150 150 150	-0.45687 AEPW			
AEPW         PA           AEPW         Y	'AH-CC_C118.0	138KV' 138KV' 138KV' 138KV' 138KV'	150 150 150		COMANCHE 69KV	63	-0.00634 -0.45053
AEPW         1	AH-CC_C118.0           'AH-CC_C118.0	138KV' 138KV' 138KV' 138KV'	150		CUNNINGHAM 115KV	181	-0.00536 -0.45151
AEPW         7	AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0	138KV' 138KV' 138KV'	150		CUNNINGHAM 113KV	306	-0.00536 -0.45151
AEPW         7	AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0	138KV' 138KV'			CONNINGHAM 230KV	306	-0.00538 -0.45151
AEPW         7	AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0	138KV'			D.G. HUNTER POWER STATION 138KV	90.8363	-0.0052 -0.45167 0.00649 -0.46336
AEPW         1	AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0	138KV'	150		D.G. HUNTER POWER STATION 138KV DENISON 138KV		
AEPW         7           AEPW         9           AEPW         9           AEPW         9           AEPW         9           AEPW         9           AEPW         9           AEPW         14           AEPW         17           AEPW         17           AEPW         17           AEPW         17           AEPW         17           AEPW         12	'AH-CC_C118.0 'AH-CC_C118.0 'AH-CC_C118.0 'AH-CC_C118.0	1 JORV	150		DENISON 138KV DOLET HILLS 345KV	59.00515 338.6819	-0.00783 -0.44904 0.02141 -0.47828
AEPW         //	AH-CC_C118.0 AH-CC_C118.0 AH-CC_C118.0		150		ELK RIVER 345KV	338.6819	-0.00368 -0.45319
AEPW         7	'AH-CC_C118.0 'AH-CC_C118.0						
AEPW // AEPW // AEPW // AEPW // AEPW // AEPW // AEPW // AEPW //	'AH-CC_C118.0		150		EUFAULA 138KV	50.49099	-0.0041 -0.45277
AEPW // AEPW // AEPW // AEPW // AEPW // AEPW // AEPW // AEPW //			150		EUFAULA 161KV	69.10335	-0.0041 -0.45277
AEPW // AEPW // AEPW // AEPW // AEPW // AEPW //	AFI-CC_C118.0		150		EVANGELINE 138KV	148.3381	0.00445 -0.46132
AEPW // AEPW // AEPW // AEPW // AEPW //			150	-0.45687 CELE	EVANGELINE 230KV	184.0071	0.00484 -0.46171
AEPW 7/ AEPW 7/ AEPW 7/ AEPW 7/	AH-CC_C118.0	1305.V	150	-0.45687 WERE	'EVANS ENERGY CENTER 138KV'	510	-0.00387 -0.453
AEPW 77 AEPW 77 AEPW 77	'AH-CC_C118.0		150		'FITZHUGH 161KV'	101	-0.00216 -0.45471
AEPW AEPW	AH-CC_C118.0		150		'FLINT CREEK 161KV'	428	-0.00372 -0.45315
AEPW 7	'AH-CC_C118.0	138KV'	150	-0.45687 LEPA	'FROGSTATION 69KV'	3	0.00265 -0.45952
	'AH-CC_C118.0		150		'GILL ENERGY CENTER 138KV'	155	-0.00385 -0.45302
AFPW .	'AH-CC_C118.0		150		'GILL ENERGY CENTER 69KV'	45	-0.00386 -0.45301
	'AH-CC_C118.0		150		'GRDA1 161KV'	190	-0.004 -0.45287
AEPW 7	'AH-CC_C118.0	138KV'	150		'GRDA1 345KV'	220	-0.00398 -0.45289
AEPW 7	'AH-CC_C118.0 'AH-CC_C118.0	138KV'	150		'GREERS FERRY 161KV'	92.66582	-0.00061 -0.45626
AEPW 7	'AH-CC_C118.0	138KV'	150		'HARRINGTON 230KV'	1066	-0.00511 -0.45176
	'AH-CC_C118.0		150		'HORSESHOE LAKE 138KV'	851.5	-0.00595 -0.45092
	'AH-CC_C118.0		150		'HORSESHOE LAKE 69KV'	16	-0.00595 -0.45092
	'AH-CC_C118.0		150		'HUBRCO2 69KV'	11	-0.00512 -0.45175
AEPW 7	'AH-CC_C118.0	138KV'	150		'HUGO 138KV'	450	-0.01138 -0.44549
	'AH-CC_C118.0		150	-0.45687 WERE	'HUTCHINSON ENERGY CENTER 115KV'	239.4126	-0.00328 -0.45359
AEPW '/	'AH-CC_C118.0	138KV'	150	-0.45687 WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	-0.00328 -0.45359
AEPW '/	'AH-CC_C118.0	138KV'	150	-0.45687 SWPA	'INDEPENDENCE 161KV'	12.87025	-0.00059 -0.45628
AEPW '/	'AH-CC_C118.0	138KV'	150		'IRION SUB 230KV'	25	0.00181 -0.45868
AEPW '/	'AH-CC_C118.0	138KV'	150	-0.45687 SWPA	JAMES RIVER 161KV	159	-0.00274 -0.45413
AEPW '/	'AH-CC_C118.0	138KV'	150	-0.45687 SWPA	JAMES RIVER 69KV	233.2277	-0.00274 -0.45413
	'AH-CC_C118.0		150	-0.45687 WERE	JEFFREY ENERGY CENTER 230KV	470	-0.0031 -0.45377
	'AH-CC_C118.0	138KV'	150		JEFFREY ENERGY CENTER 345KV	940	-0.00309 -0.45378
	'AH-CC_C118.0		150		JONES 230KV	486	-0.00544 -0.45143
	'AH-CC_C118.0	138KV'	150		JONESBORO 161KV	43	-0.00051 -0.45636
	'AH-CC_C118.0	138KV'	150		KENNETT 69KV	7.5	-0.0006 -0.45627
	'AH-CC_C118.0		150		KERR 115KV	13.5	-0.00396 -0.45291
	'AH-CC_C118.0		150		'KERR 161KV'	13.5	-0.00397 -0.4529
	AH-CC C118.0		150		'KEYSTONE DAM 161KV'	149.0969	-0.00453 -0.45234
	'AH-CC_C118.0		150		1 &D13 69KV	143.0303	-0.00266 -0.45421
	'AH-CC_C118.0	138KV'	150		'LANG 7 345 345KV'	310	-0.00327 -0.4536
	'AH-CC_C118.0		150		'LARUSSEL 161KV'	116	-0.00313 -0.45374
	'AH-CC C118.0		150		'LAWRENCE ENERGY CENTER 230KV'	227.4069	-0.00306 -0.45381
	'AH-CC_C118.0		150		LP-BRND2 69KV	227.4003	-0.00544 -0.45143
	AH-CC C118.0		150		LP-MACK2 69KV	60	
	'AH-CC_C118.0		150		MADOX 115KV	183	-0.00536 -0.45151
	'AH-CC_C118.0		150		MADOX TISKY	7	-0.00063 -0.45624
	'AH-CC_C118.0		150		MCCARTNEY 161KV	100	
	'AH-CC_C118.0		150		MCCLAIN 138KV	478	-0.00267 -0.4542
	'AH-CC_C118.0	129////	150		MOORE COUNTY 115KV	478	-0.00509 -0.45178
			150		MOORE COUNTY 115KV MORLND 138KV	48 298.512	
	AH-CC_C118.0	138K\//	150	-0.45687 WFEC -0.45687 OKGE	MUSKOGEE 161KV	298.512 83.59766	-0.00564 -0.45123 -0.00408 -0.45279
	AH-CC_C118.0		150		MUSKOGEE 161KV 'MUSKOGEE 345KV'	83.59766	-0.00408 -0.45279 -0.0045 -0.45237
			150		MUSKOGEE 345KV	1516	-0.0045 -0.45237 -0.00537 -0.4515
	AH-CC_C118.0						
	AH-CC_C118.0		150		MUSTANG 138KV	365.5	-0.00597 -0.4509
	AH-CC_C118.0		150		'MUSTANG 230KV'	310	-0.00537 -0.4515
	'AH-CC_C118.0		150		'MUSTANG 69KV'	106	-0.00597 -0.4509
	AH-CC_C118.0		150	-0.45687 SPS	'MUSTG5 118.0 230KV'	50	-0.00537 -0.4515
	AH-CC_C118.0		150		'NARROWS 69KV'	22	-0.01698 -0.43989
AEPW 7	'AH-CC_C118.0	138KV'	150		'NATCHITOCHES 69KV'	17.79226	0.0126 -0.46947
AEPW	'AH-CC_C118.0	138KV'	150		'NICHOLS 115KV'	147	-0.00513 -0.45174
AEPW '/	'AH-CC_C118.0	138KV'	150	-0.45687 SPS	'NICHOLS 230KV'	147	
	'AH-CC_C118.0		150	-0.45687 AEPW			-0.00421 -0.45266
Maximum Decrement and Maxir	imum Increment	were determine from the Souce and Sink Ope	rating Points in the	0.7000/ AEF W	'NORTHEASTERN STATION 138KV'	472	0.00721 -0.70200

Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed:	MEDICINE LODGE - SUN CITY 115KV CKT 1 MEDICINE LODGE - SUN CITY 115KV CKT 1 To-From MULLERGREN - SPEARVILLE 230KV CKT 1 5877358797158795879513107SH 6/1 - 10/1 Unit EOC of Upgrade 2007 Summer Shoulder	Aggregate Relief						
	Relief Amount	Amount						
1162649	6.8	6.8						
			Sink					Aggregate
		Maximum	Control		Maximum		-	Redispatch
	Source		GSF Area	Sink			Factor	Amount (MW)
WEPL	'HARPER 138KV'	17.21	-0.12652 WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.23702		
WEPL	'HARPER 138KV'	17.21	-0.12652 WEPL	'JUDSON LARGE 115KV'	118.4635	0.23868		
WERE	'ST JOHN 115KV'	7.5	-0.09134 WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.23702	-0.32836	
WERE	'ST JOHN 115KV'	7.5	-0.09134 WEPL	'JUDSON LARGE 115KV'	118.4635	0.23868	-0.33002	
WERE	'GREAT BEND PLANT 69KV'	10	-0.03641 WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.23702	-0.27343	25
WERE	'GREAT BEND PLANT 69KV'	10	-0.03641 WEPL	'JUDSON LARGE 115KV'	118.4635	0.23868	-0.27509	
WEPL	'NORTH WEST GREAT BEND 115KV'	14.24	-0.03192 WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.23702	-0.26894	25
WEPL	'NORTH WEST GREAT BEND 115KV'	14.24	-0.03192 WEPL	'JUDSON LARGE 115KV'	118.4635	0.23868	-0.2706	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.02186 WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.23702	-0.25888	26
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.02186 WEPL	'JUDSON LARGE 115KV'	118.4635	0.23868	-0.26054	26 26
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.02484 WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.23702	-0.26186	
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.02484 WEPL	'JUDSON LARGE 115KV'	118.4635	0.23868	-0.26352	
WERE	'GILL ENERGY CENTER 69KV'	118	-0.02213 WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.23702	-0.25915	26
WERE	'GILL ENERGY CENTER 69KV'	118	-0.02213 WEPL	'JUDSON LARGE 115KV'	118.4635	0.23868	-0.26081	
WERE	HUTCHINSON ENERGY CENTER 115KV	341	-0.02785 WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.23702	-0.26487	

ERE	HUTCHINSON ENERGY CENTER 115KV	341 -0.02785 WEPL	JUDSON LARGE 115KV	118.4635 0.23868	-0.26653
ERE	'HUTCHINSON ENERGY CENTER 69KV'	67 -0.02792 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702	-0.26494
RE PL	'HUTCHINSON ENERGY CENTER 69KV' 'RUSSELL 115KV'	67 -0.02792 WEPL 27.9 -0.02558 WEPL	'JUDSON LARGE 115KV' 'GRAY COUNTY WIND FARM 115KV'	118.4635 0.23868 63 0.23702	
EPL	'RUSSELL 115KV'	27.9 -0.02558 WEPL	'JUDSON LARGE 115KV'	118.4635 0.23868	-0.26426
PL PL	BELOIT 115KV BELOIT 115KV	16.6 -0.0122 WEPL 16.6 -0.0122 WEPL	'GRAY COUNTY WIND FARM 115KV' 'JUDSON LARGE 115KV'	63 0.23702 118.4635 0.23868	
RE	CITY OF AUGUSTA 69KV'	13.298 -0.01353 WEPL	GRAY COUNTY WIND FARM 115KV	63 0.23702	
RE	'CITY OF AUGUSTA 69KV'	13.298 -0.01353 WEPL	'JUDSON LARGE 115KV'	118.4635 0.23868	-0.25221
RE	CITY OF BURLINGTON 69KV CITY OF MULVANE 69KV	28.25 -0.0094 WEPL 9.601001 -0.01765 WEPL	'JUDSON LARGE 115KV' 'GRAY COUNTY WIND FARM 115KV'	118.4635 0.23868 63 0.23702	
RE	'CITY OF MULVANE 69KV'	9.601001 -0.01765 WEPL	'JUDSON LARGE 115KV'	118.4635 0.23868	-0.25633
RE	CITY OF WINFIELD 69KV'	23.53 -0.01185 WEPL 23.53 -0.01185 WEPL	'GRAY COUNTY WIND FARM 115KV' 'JUDSON LARGE 115KV'	63 0.23702 118.4635 0.23868	
RE	CLAY CENTER JUNCTION 115KV	38.1 -0.01214 WEPL	GRAY COUNTY WIND FARM 115KV	63 0.23702	-0.24916
RE	CLAY CENTER JUNCTION 115KV	38.1 -0.01214 WEPL	JUDSON LARGE 115KV	118.4635 0.23868	
RE	CLIFTON 115KV' CLR_1 .575 34KV'	23.50055 -0.00909 WEPL 90 -0.01023 WEPL	'JUDSON LARGE 115KV' 'GRAY COUNTY WIND FARM 115KV'	118.4635 0.23868 63 0.23702	
RE	'CLR_1 .575 34KV'	90 -0.01023 WEPL	'JUDSON LARGE 115KV'	118.4635 0.23868	-0.24891
RE	'CLR_2 .575 34KV' 'CLR_2 .575 34KV'	112.5 -0.01023 WEPL 112.5 -0.01023 WEPL	'GRAY COUNTY WIND FARM 115KV' 'JUDSON LARGE 115KV'	63 0.23702 118.4635 0.23868	
RE	'CLR_3 .575 34KV'	97.5 -0.01023 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702	
RE	CLR_3 .575 34KV' 'EVANS ENERGY CENTER 138KV'	97.5 -0.01023 WEPL 427.3342 -0.0156 WEPL	'JUDSON LARGE 115KV' 'GRAY COUNTY WIND FARM 115KV'	118.4635 0.23868 63 0.23702	
RE	'EVANS ENERGY CENTER 138KV'	427.3342 -0.0156 WEPL	JUDSON LARGE 115KV	118.4635 0.23702	
RE	'EVANS N4 138 16KV'	360 -0.01556 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702	
RE	'EVANS N4 138 16KV' 'GETTY 69KV'	360 -0.01556 WEPL 35 -0.01292 WEPL	'JUDSON LARGE 115KV' 'GRAY COUNTY WIND FARM 115KV'	118.4635 0.23868 63 0.23702	
ERE	'GETTY 69KV'	35 -0.01292 WEPL	'JUDSON LARGE 115KV'	118.4635 0.23868	-0.2516
EPL FRF	'HARPER 138KV' 'JEFFREY ENERGY CENTER 230KV'	17.21 -0.12652 KACP 24 -0.00863 WEPL	'SPEARVILLE WIND 34KV' 'JUDSON LARGE 115KV'	101 0.12671 118.4635 0.23868	
RE	JEFFREY ENERGY CENTER 345KV	42 -0.00865 WEPL	'JUDSON LARGE 115KV'	118.4635 0.23868	
RE	'KNOLL 3 115 115KV'	234.36 -0.01102 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702	
RE	'KNOLL 3 115 115KV' 'LANG 7 345 345KV'	234.36 -0.01102 WEPL 828 -0.00931 WEPL	'JUDSON LARGE 115KV' 'JUDSON LARGE 115KV'	118.4635 0.23868 118.4635 0.23868	
ERE	'LATHAM1134.0 345KV'	75 -0.01023 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702	-0.24725
RE	'LATHAM1134.0 345KV' 'LATHAM1234.0 345KV'	75 -0.01023 WEPL 75 -0.01023 WEPL	'JUDSON LARGE 115KV' 'GRAY COUNTY WIND FARM 115KV'	118.4635 0.23868 63 0.23702	
RE	'LATHAM1234.0 345KV'	75 -0.01023 WEPL	JUDSON LARGE 115KV	118.4635 0.23868	
RE	'lyons 115kv'	999 -0.01453 WEPL 999 -0.01453 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702 118.4635 0.23868	
RE	'lyons 115kv' 'pawnee 115kv'	999 -0.01453 WEPL 999 -0.01453 WEPL	'JUDSON LARGE 115KV' 'GRAY COUNTY WIND FARM 115KV'	118.4635 0.23868	
ERE	'pawnee 115kv'	999 -0.01453 WEPL	'JUDSON LARGE 115KV'	118.4635 0.23868	-0.25321
ERE	'rice 115kv' 'rice 115kv'	999 -0.01453 WEPL 999 -0.01453 WEPL	'GRAY COUNTY WIND FARM 115KV' 'JUDSON LARGE 115KV'	63 0.23702 118.4635 0.23868	
ERE	'SMOKYHIL 230 230KV'	72 -0.01412 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702	-0.25114
ERE \CP	'SMOKYHIL 230 230KV' 'BULL CREEK 161KV'	72 -0.01412 WEPL 373 -0.0048 WEPL	'JUDSON LARGE 115KV' 'GRAY COUNTY WIND FARM 115KV'	118.4635 0.23868	
ICP ICP	BULL CREEK 161KV	373 -0.0048 WEPL 373 -0.0048 WEPL	JUDSON LARGE 115KV	63 0.23702 118.4635 0.23868	
ERE	CHANUTE 69KV	41.183 -0.00543 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702	
ERE ERE	CHANUTE 69KV' CITY OF BURLINGTON 69KV'	41.183 -0.00543 WEPL 28.25 -0.0094 WEPL	'JUDSON LARGE 115KV' 'GRAY COUNTY WIND FARM 115KV'	118.4635 0.23868 63 0.23702	
CP	CITY OF HIGGINSVILLE 69KV	36 -0.00293 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702	-0.23995
CP ERE	CITY OF HIGGINSVILLE 69KV' CITY OF IOLA 69KV'	36 -0.00293 WEPL 17.763 -0.00516 WEPL	'JUDSON LARGE 115KV' 'GRAY COUNTY WIND FARM 115KV'	118.4635 0.23868 63 0.23702	
RE	'CITY OF IOLA 69KV'	17.763 -0.00516 WEPL	'JUDSON LARGE 115KV'	118.4635 0.23868	-0.24384
EPL	CLIFTON 115KV	23.50055 -0.00909 WEPL 11 -0.00476 WEPL	GRAY COUNTY WIND FARM 115KV	63 0.23702	
CP CP	'GARDNER 161KV' 'GARDNER 161KV'	11 -0.00476 WEPL 11 -0.00476 WEPL	'GRAY COUNTY WIND FARM 115KV' 'JUDSON LARGE 115KV'	63 0.23702 118.4635 0.23868	
CP	'HAWTHORN 161KV'	83.75146 -0.00343 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702	-0.24045
CP RE	'HAWTHORN 161KV' 'HOLTON 115KV'	83.75146 -0.00343 WEPL 19.8 -0.00538 WEPL	'JUDSON LARGE 115KV' 'GRAY COUNTY WIND FARM 115KV'	118.4635 0.23868 63 0.23702	
RE	'HOLTON 115KV'	19.8 -0.00538 WEPL	'JUDSON LARGE 115KV'	118.4635 0.23868	-0.24406
RE	JEFFREY ENERGY CENTER 230KV' JEFFREY ENERGY CENTER 345KV'	24 -0.00863 WEPL 42 -0.00856 WEPL	'GRAY COUNTY WIND FARM 115KV' 'GRAY COUNTY WIND FARM 115KV'	63 0.23702 63 0.23702	
RE	'LANG 7 345 345KV'	828 -0.00931 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702	-0.24633
RE	'LAWRENCE ENERGY CENTER 230KV'	44.90308 -0.00701 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702	-0.24403
CP	'LAWRENCE ENERGY CENTER 230KV' 'MARSHALL 161KV'	44.90308 -0.00701 WEPL 54.1 -0.00187 WEPL	'JUDSON LARGE 115KV' 'GRAY COUNTY WIND FARM 115KV'	118.4635 0.23868 63 0.23702	
CP	'MARSHALL 161KV'	54.1 -0.00187 WEPL	'JUDSON LARGE 115KV'	118.4635 0.23868	-0.24055
CP CP	'MONTROSE 161KV' 'MONTROSE 161KV'	28.36888 -0.00369 WEPL 28.36888 -0.00369 WEPL	'GRAY COUNTY WIND FARM 115KV' 'JUDSON LARGE 115KV'	63 0.23702 118.4635 0.23868	
CP	'NORTHEAST 13KV'	229 -0.00359 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702	-0.24061
CP CP	NORTHEAST 13KV' NORTHEAST 161KV'	229 -0.00359 WEPL 229 -0.00359 WEPL	'JUDSON LARGE 115KV' 'GRAY COUNTY WIND FARM 115KV'	118.4635 0.23868 63 0.23702	
CP	NORTHEAST 161KV	229 -0.00359 WEPL	JUDSON LARGE 115KV	118.4635 0.23868	
CP	'PAOLA COMBUSTION TURBINES 161KV'	77 -0.00476 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702	-0.24178
CP RE	'PAOLA COMBUSTION TURBINES 161KV' 'SOUTH SENECA 115KV'	77 -0.00476 WEPL 16.7 -0.00401 WEPL	'JUDSON LARGE 115KV' 'GRAY COUNTY WIND FARM 115KV'	118.4635 0.23868 63 0.23702	
RE	'SOUTH SENECA 115KV'	16.7 -0.00401 WEPL	'JUDSON LARGE 115KV'	118.4635 0.23868	-0.24269
RE	TECUMSEH ENERGY CENTER 115KV TECUMSEH ENERGY CENTER 115KV	52.99999 -0.00734 WEPL 52.99999 -0.00734 WEPL	'GRAY COUNTY WIND FARM 115KV' 'JUDSON LARGE 115KV'	63 0.23702 118.4635 0.23868	
ERE	TECUMSEH ENERGY CENTER 69KV	41 -0.00737 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702	-0.24439
ERE	TECUMSEH ENERGY CENTER 69KV CITY OF NORTON 115KV	41 -0.00737 WEPL	JUDSON LARGE 115KV JUDSON LARGE 115KV	118.4635 0.23868	-0.24605
	and Maximum Increment were determine from the Souce and Sink	10.56 0.02256 WEPL Operating Points in the study models where		118.4635 0.23868	-0.21612
ctor = Source GSF	- Sink GSF	· · · · · · · · · · · · · · · · · · ·			
dispatch Amount =	Relief Amount / Factor				

Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed:	MEDICINE LODGE - SUN CITY 115KV CKT 1 MEDICINE LODGE - SUN CITY 115KV CKT 1 To->From MULERGREN - SPEARVILLE 230KV CKT 1 58773587971587756879513107SP 6/1/07 - 10/1/07 2007 Summer Peak								
Reservation	Relief Amount	Aggregate Relief Amount							
1162649									
				Sink					Aggregate
		Maximum		Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
WEPL	'HARPER 138KV'	17.21	-0.12652	WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.23702	-0.36354	19
WEPL	'HARPER 138KV'	17.21	-0.12652	WEPL	JUDSON LARGE 115KV	118.2329	0.23868	-0.3652	19
WERE	'ST JOHN 115KV'	7.5			'GRAY COUNTY WIND FARM 115KV'	63	0.23702	-0.32836	
WERE	'ST JOHN 115KV'	7.5	-0.09134	WEPL	'JUDSON LARGE 115KV'	118.2329	0.23868	-0.33002	21
WERE	'GREAT BEND PLANT 69KV'	10			'GRAY COUNTY WIND FARM 115KV'	63	0.23702	-0.27343	
WERE	'GREAT BEND PLANT 69KV'	10			'JUDSON LARGE 115KV'	118.2329	0.23868	-0.27509	
WEPL	'HARPER 138KV'	17.21	-0.12652		'CIMARRON RIVER 115KV'	32.22301	0.14599		25
WERE	'GILL ENERGY CENTER 138KV'	64.99999			'GRAY COUNTY WIND FARM 115KV'	63	0.23702	-0.26186	
WERE	'GILL ENERGY CENTER 138KV'	64.99999	-0.02484	WEPL	'JUDSON LARGE 115KV'	118.2329	0.23868	-0.26352	
WERE	'HUTCHINSON ENERGY CENTER 115KV'	271	-0.02785	WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.23702	-0.26487	
WERE	'HUTCHINSON ENERGY CENTER 115KV'	271	-0.02785		'JUDSON LARGE 115KV'	118.2329	0.23868	-0.26653	
WERE	'HUTCHINSON ENERGY CENTER 69KV'	31.25683	-0.02792	WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.23702	-0.26494	
WERE	'HUTCHINSON ENERGY CENTER 69KV'	31.25683	-0.02792		'JUDSON LARGE 115KV'	118.2329	0.23868		
WEPL	'NORTH WEST GREAT BEND 115KV'	14.24	-0.03192	WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.23702	-0.26894	
WEPL	'NORTH WEST GREAT BEND 115KV'	14.24			'JUDSON LARGE 115KV'	118.2329	0.23868	-0.2706	
WEPL	'RUSSELL 115KV'	27.9	-0.02558	WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.23702	-0.2626	26

WEPL	'RUSSELL 115KV'	27.9 -0.02558 WEPL	'JUDSON LARGE 115KV'	118.2329 0.23868 -0.26426
WERE	BPU - CITY OF MCPHERSON 115KV	39 -0.02558 WEPL	GRAY COUNTY WIND FARM 115KV	63 0.23702 -0.25888
WERE	BPU - CITY OF MCPHERSON 115KV	39 -0.02186 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.26054
WERE	CITY OF AUGUSTA 69KV	10.141 -0.01353 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.25221
WERE	'EVANS ENERGY CENTER 138KV'	63 -0.0156 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702 -0.25262
WERE	'EVANS ENERGY CENTER 138KV'	63 -0.0156 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.25428
WERE	'EVANS N4 138 16KV'	360 -0.01556 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702 -0.25258
WERE	'EVANS N4 138 16KV'	360 -0.01556 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.25424
WERE	'GILL ENERGY CENTER 69KV'	38 -0.02213 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702 -0.25915
WERE	'GILL ENERGY CENTER 69KV'	38 -0.02213 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.26081
WEPL	'HARPER 138KV'	17.21 -0.12652 KACP	'SPEARVILLE WIND 34KV'	101 0.12671 -0.25323
WERE	'lyons 115kv'	999 -0.01453 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.25321
WERE	pawnee 115kv	999 -0.01453 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.25321
WERE	'rice 115kv'	999 -0.01453 WEPL	'JUDSON LARGE 115KV'	118.2329 0.23868 -0.25321
WERE	'SMOKYHIL 230 230KV'	72 -0.01412 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.2528
WEPL	'BELOIT 115KV'	16.6 -0.0122 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702 -0.24922
WEPL	'BELOIT 115KV'	16.6 -0.0122 WEPL	'JUDSON LARGE 115KV'	118.2329 0.23868 -0.25088
KACP	'BULL CREEK 161KV'	65 -0.0048 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.24348
WERE	CHANUTE 69KV	31.077 -0.00543 WEPL	'JUDSON LARGE 115KV'	118.2329 0.23868 -0.24411
WERE	'CITY OF AUGUSTA 69KV'	10.141 -0.01353 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702 -0.25055
WERE	CITY OF BURLINGTON 69KV	21.247 -0.0094 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702 -0.24642
WERE	CITY OF BURLINGTON 69KV	21.247 -0.0094 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.24808
WERE	CITY OF IOLA 69KV	13.361 -0.00516 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.24384
WERE	'CITY OF WINFIELD 69KV'	12.038 -0.01185 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702 -0.24887
WERE	CITY OF WINFIELD 69KV	12.038 -0.01185 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.25053
WERE	CLAY CENTER JUNCTION 115KV	38.1 -0.01214 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702 -0.24916
WERE	CLAY CENTER JUNCTION 115KV	38.1 -0.01214 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.25082
WERE	CLR_1 .575 34KV	90 -0.01023 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702 -0.24725
WERE	'CLR 1 .575 34KV'	90 -0.01023 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.24891
WERE	CLR 2 .575 34KV	112.5 -0.01023 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702 -0.24725
WERE	CLR_2 .575 34KV	112.5 -0.01023 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.24891
WERE	CLR_3 .575 34KV	97.5 -0.01023 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702 -0.24725
WERE	CLR_3 .575 34KV	97.5 -0.01023 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.24891
KACP	GARDNER 161KV	11 -0.00476 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.24344
WERE	GETTY 69KV	35 -0.01292 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702 -0.24994
WERE	'GETTY 69KV'	35 -0.01292 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.2516
WERE	HOLTON 115KV	19.8 -0.00538 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.24406
WERE	JEFFREY ENERGY CENTER 230KV	24 -0.00863 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702 -0.24565
WERE	JEFFREY ENERGY CENTER 230KV	24 -0.00863 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.24731
WERE	JEFFREY ENERGY CENTER 345KV	42 -0.00856 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702 -0.24558
WERE	JEFFREY ENERGY CENTER 345KV	42 -0.00856 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.24724
WERE	'KNOLL 3 115 115KV'	234.36 -0.01102 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702 -0.24804
WERE	'KNOLL 3 115 115KV'	234.36 -0.01102 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.2497
WERE	'LANG 7 345 345KV'	828 -0.00931 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702 -0.24633
WERE	'LANG 7 345 345KV'	828 -0.00931 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.24799
WERE	'LATHAM1134.0 345KV'	75 -0.01023 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702 -0.24725
WERE	LATHAM1134.0 345KV	75 -0.01023 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.24891
WERE	LATHAM1234.0 345KV	75 -0.01023 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702 -0.24725
WERE	'LATHAM1234.0 345KV'	75 -0.01023 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.24891
WERE	'LAWRENCE ENERGY CENTER 230KV'	50.01218 -0.00701 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702 -0.24403
WERE	LAWRENCE ENERGY CENTER 230KV	50.01218 -0.00701 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.24569
WERE	'lyons 115kv'	999 -0.01453 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702 -0.25155
WERE	'pawnee 115kv'	999 -0.01453 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702 -0.25155
WERE	rice 115kv	999 -0.01453 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702 -0.25155
WERE	'SMOKYHIL 230 230KV'	72 -0.01412 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702 -0.25133
WERE	TECUMSEH ENERGY CENTER 115KV	33 -0.00734 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702 -0.24436
WERE	TECUMSEH ENERGY CENTER 115KV	33 -0.00734 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.24602
WERE	TECUMSEH ENERGY CENTER 69KV	41 -0.00737 WEPL	GRAY COUNTY WIND FARM 115KV	63 0.23702 -0.24439
WERE	TECUMSEH ENERGY CENTER 69KV	41 -0.00737 WEPL 41 -0.00737 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.24605
KACP	BULL CREEK 161KV	65 -0.0048 WEPL	GRAY COUNTY WIND FARM 115KV	63 0.23702 -0.24802
WERE	CHANUTE 69KV	31.077 -0.00543 WEPL	GRAY COUNTY WIND FARM 115KV	63 0.23702 -0.24162
WERE	CITY OF IOLA 69KV	13.361 -0.00545 WEPL	GRAY COUNTY WIND FARM 115KV	63 0.23702 -0.24245
KACP	GARDNER 161KV	11 -0.00476 WEPL	'GRAY COUNTY WIND FARM 115KV'	63 0.23702 -0.24218
WERE	HOLTON 115KV	19.8 -0.00538 WEPL	GRAY COUNTY WIND FARM 115KV	63 0.23702 -0.24178
KACP	MARSHALL 161KV	54.1 -0.00187 WEPL	GRAY COUNTY WIND FARM 115KV	63 0.23702 -0.2424
KACP	'MARSHALL 161KV'	54.1 -0.00187 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.24055
KACP	MARSHALL INIKV	26.68961 -0.00369 WEPL	GRAY COUNTY WIND FARM 115KV	63 0.23702 -0.24055
KACP	'MONTROSE 161KV'	26.68961 -0.00369 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.24237
KACP	NORTHEAST 13KV	192.3545 -0.00359 WEPL	GRAY COUNTY WIND FARM 115KV	63 0.23702 -0.24061
KACP	NORTHEAST 13KV	192.3545 -0.00359 WEPL 192.3545 -0.00359 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.24061
KACP	NORTHEAST 15KV	229 -0.00359 WEPL	GRAY COUNTY WIND FARM 115KV	63 0.23702 -0.24061
KACP	NORTHEAST 161KV	229 -0.00359 WEPL 229 -0.00359 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.24227
WERE	SOUTH SENECA 115KV	16.7 -0.00401 WEPL	GRAY COUNTY WIND FARM 115KV	63 0.23702 -0.24103
WERE	SOUTH SENECA 115KV	16.7 -0.00401 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.24269
WERL	HARPER 138KV	17.21 -0.12652 SUNC	GARDEN CITY 115KV	56.23386 0.08908 -0.24269
WEPL	'HARPER 138KV'	17.21 -0.12652 SUNC	HOLCOMB 115KV	267.2443 0.09122 -0.21774
SPS	LP-HOLL2 69KV	132 0.03161 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.20707
SPS	'LP-MACK2 69KV'	20 0.03158 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.20707
SPS	CARLSBAD 69KV	18 0.03423 WEPL	GRAY COUNTY WIND FARM 115KV	63 0.23702 -0.2079
SPS	CARLSBAD 69KV	18 0.03423 WEPL 18 0.03423 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.202445
SPS	CUNNINGHAM 115KV'	51.42041 0.03394 WEPL	GRAY COUNTY WIND FARM 115KV	63 0.23702 -0.20308
	CUNNINGHAM 115KV	51.42041 0.03394 WEPL	JUDSON LARGE 115KV	118.2329 0.23868 -0.20474
SPS			'GRAY COUNTY WIND FARM 115KV'	
SPS SPS	1 P-HOLL2 69KV/			
SPS SPS SPS	'LP-HOLL2 69KV' 'LP-MACK2 69KV'	132 0.03161 WEPL 20 0.03158 WEPL	GRAY COUNTY WIND FARM 115KV	63 0.23702 -0.20541 63 0.23702 -0.20544

Upgrade:	Mustang-San Andr-Amerada Hess 115KV								
Limiting Facility:	DENVER CITY INTERCHANGE N - MUSTANG STATION 115	KV CKT 1							
Direction:	To->From								
Line Outage:	DENVER CITY INTERCHANGE S - MUSTANG STATION 115	KV CKT 1							
Flowgate:	51960519661519625196813407G								
Date Redispatch Needed:	Starting 2007 4/1 - 6/1 Until EOC of Upgrade								
Season Flowgate Identified:	2007 Spring Peak								
		Aggregate Relief							
Reservation	Relief Amount	Amount							
1162675	3.4	3.4							
				Sink					Aggregate
		Maximum		Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
SPS	CUNNINGHAM 115KV	93.00244			'MUSTANG 115KV'	300		-0.59149	
SPS	'MADOX 115KV'	75	-0.16452		'MUSTANG 115KV'	300	0.42994	-0.59446	
SPS	'CARLSBAD 69KV'	18	-0.07652		'MUSTANG 115KV'	300			
WEPL	'A. M. MULLERGREN GENERATOR 115KV'	38			'MUSTANG 115KV'	300		-0.42959	
AEPW	'AEP-CT0113.8 161KV'	85	-0.00004	SPS	'MUSTANG 115KV'	300	0.42994	-0.42998	8
AEPW	'AEP-CT0213.8 161KV'	85			'MUSTANG 115KV'	300		-0.42998	8
AEPW	'AEP-CT0313.8 161KV'	85			'MUSTANG 115KV'	300	0.42994	-0.42998	8
AEPW	'AEP-CT0413.8 161KV'	85	-0.00004	SPS	'MUSTANG 115KV'	300	0.42994		
AEPW	'AEP-CT0513.8 161KV'	85			'MUSTANG 115KV'	300			8
AEPW	'AEP-CT0613.8 161KV'	85	-0.00004	SPS	'MUSTANG 115KV'	300	0.42994	-0.42998	8
AEPW	'AH-CC_C118.0 138KV'	150			'MUSTANG 115KV'	300	0.42994	-0.42999	
AEPW	'AH-CC_C218.0 138KV'	150			'MUSTANG 115KV'	300	0.42994	-0.42999	
AEPW	'AH-CC_ST18.0 138KV'	250	-0.00005	SPS	'MUSTANG 115KV'	300	0.42994	-0.42999	8
AEPW	'ARSENAL HILL 69KV'	99	-0.00005	SPS	'MUSTANG 115KV'	300	0.42994	-0.42999	8
WEPL	'BELOIT 115KV'	16.6	0.00017	SPS	'MUSTANG 115KV'	300	0.42994	-0.42977	8
WEPL	'CIMARRON RIVER 115KV'	72	0.00058	SPS	'MUSTANG 115KV'	300	0.42994	-0.42936	8
SUNC	'CITY OF GOODLAND 115KV'	13.9	0.00049	SPS	'MUSTANG 115KV'	300	0.42994	-0.42945	8

SUNC					
	CITY OF HILL CITY 115KV	6.1	0.00036 SPS	'MUSTANG 115KV'	300 0.42994 -0.42958 8
SUNC	CITY OF HUGOTON 69KV	17.07	0.00059 SPS	'MUSTANG 115KV'	300 0.42994 -0.42935 8
SUNC	'CITY OF LAKIN 115KV'	4.25	0.00062 SPS	'MUSTANG 115KV'	300 0.42994 -0.42932 8
SUNC	CITY OF NORTON 115KV	10.56		'MUSTANG 115KV'	300 0.42994 -0.42956 8
SUNC	CITY OF ST.FRANCIS 115KV	4.3		MUSTANG 115KV	300 0.42994 -0.42946 8
WEPI					
	'CLIFTON 115KV'	70		'MUSTANG 115KV'	
AEPW	COGENTRIX 345KV	694		'MUSTANG 115KV'	300 0.42994 -0.43001 8
SPS	'CZ 69KV'	4	0.00118 SPS	'MUSTANG 115KV'	300 0.42994 -0.42876 8
AEPW	'EASTMAN 138KV'	130.01		'MUSTANG 115KV'	300 0.42994 -0.43 8
AEPW	'FITZHUGH 161KV'	39	-0.00004 SPS	'MUSTANG 115KV'	300 0.42994 -0.42998 8
AEPW	'FLINT CREEK 161KV'	28	-0.00004 SPS	'MUSTANG 115KV'	300 0.42994 -0.42998 8
AEPW	'FULTON 115KV'	153		'MUSTANG 115KV'	300 0.42994 -0.43 8
SUNC	'GARDEN CITY 115KV'	171.4909		MUSTANG 115KV	300 0.42994 -0.42932 8
SUNC	GARDEN CITY 34KV	10.7		MUSTANG 115KV	
SUNC	'GARDEN CITY 69KV'	13		'MUSTANG 115KV'	300 0.42994 -0.42932 8
WEPL	'GREENLEAF 115KV'	8		'MUSTANG 115KV'	300 0.42994 -0.42981 8
WEPL	'GREENSBURG 115KV'	6.2		'MUSTANG 115KV'	300 0.42994 -0.42955 8
WEPL	'HARPER 138KV'	17.21	0.00013 SPS	'MUSTANG 115KV'	300 0.42994 -0.42981 8
SPS	'HARRINGTON 230KV'	360	0.00132 SPS	'MUSTANG 115KV'	300 0.42994 -0.42862 8
AEPW	'HEMPCOAL24.0 138KV'	608	-0.00007 SPS	'MUSTANG 115KV'	300 0.42994 -0.43001 8
SUNC	'HOLCOMB 115KV'	28.99969		'MUSTANG 115KV'	300 0.42994 -0.42931 8
SPS	'HUBRCO2 69KV'	F	0.0013 SPS	'MUSTANG 115KV'	300 0.42994 -0.42864 8
SUNC	JOHNSON 69KV	5.2	0.0006 SPS	'MUSTANG 115KV'	300 0.42994 -0.42934 8
WEPL	JUDSON LARGE 115KV	33.20886	0.00051 SPS	MUSTANG 115KV	300 0.42994 -0.42934 8
AEPW	'KIOWA 345KV'	1348	-0.00013 SPS	'MUSTANG 115KV'	300 0.42994 -0.43007 8
AEPW	'KNOXLEE 138KV'	337.8167		'MUSTANG 115KV'	300 0.42994 -0.43 8
AEPW	'L&D13 69KV'	13		'MUSTANG 115KV'	300 0.42994 -0.42998 8
AEPW	'LEBROCK 345KV'	182		'MUSTANG 115KV'	300 0.42994 -0.43 8
AEPW	'LIEBERMAN 138KV'	224	-0.00006 SPS	'MUSTANG 115KV'	300 0.42994 -0.43 8
AEPW	'LONESTAR POWER PLANT 69KV'	50		'MUSTANG 115KV'	300 0.42994 -0.43 8
SPS	'LP-HOLL2 69KV'	132		'MUSTANG 115KV'	300 0.42994 -0.43237 8
SPS	LP-MACK2 69KV	20		MUSTANG 115KV	300 0.42994 -0.43246 8
AEPW	MID-CONTINENT 138KV'	142.11		'MUSTANG 115KV'	300 0.42994 -0.42998 8
SPS		142.11		MUSTANG TISKV	
	'MOORE COUNTY 115KV'	48		'MUSTANG 115KV'	
AEPW	'NARROWS 69KV'			'MUSTANG 115KV'	300 0.42994 -0.43001 8
SPS	'NICHOLS 115KV'	213		'MUSTANG 115KV'	300 0.42994 -0.42868 8
SPS	'NICHOLS 230KV'	244	0.0013 SPS	'MUSTANG 115KV'	300 0.42994 -0.42864 8
AEPW	'NORTH MARSHALL 69KV'	5		'MUSTANG 115KV'	300 0.42994 -0.43 8
WEPL	'NORTH WEST GREAT BEND 115KV'	14.24	0.00035 SPS	'MUSTANG 115KV'	300 0.42994 -0.42959 8
AEPW	'NORTHEASTERN STATION 138KV'	101	-0.00005 SPS	'MUSTANG 115KV'	300 0.42994 -0.42999 8
AEPW	'NORTHEASTERN STATION 345KV'	94,99997	-0.00004 SPS	'MUSTANG 115KV'	300 0.42994 -0.42998 8
SUNC	'OBERLIN 115KV'	4.31	0.0004 SPS	'MUSTANG 115KV'	300 0.42994 -0.42954 8
AEPW	'OEC 345KV'	1728.03	-0.00006 SPS	'MUSTANG 115KV'	300 0.42994 -0.43 8
AEPW	'OMPA-PAWHUSKA NORTHEAST 138KV'	6.9	-0.00005 SPS	'MUSTANG 115KV'	300 0.42994 -0.42999 8
AFPW	'PIRKEY GENERATION 138KV'	75	-0.00006 SPS	'MUSTANG 115KV'	300 0.42994 -0.43 8
WEPL	PLAINVILLE 115KV	5.79		'MUSTANG 115KV'	300 0.42994 -0.42969 8
SPS	'PLANTX 115KV'	48	0.0023 SPS	MUSTANG 115KV	300 0.42994 -0.42774 8
AEPW	'RIVERSIDE STATION 138KV'	462		MUSTANG 115KV	300 0.42994 -0.43 8
	RIVERSIDE STATION 136KV		-0.00000 3P3		
			0.0040.000		
SPS	'RIVERVIEW 69KV'	23		MUSTANG 115KV	300 0.42994 -0.42864 8
SPS WEPL	'RUSSELL 115KV'	23 27.9	0.0003 SPS	'MUSTANG 115KV'	300         0.42994         -0.42864         8           300         0.42994         -0.42964         8
SPS WEPL AEPW	'RUSSELL 115KV' 'RVRSIDEG13.8 138KV'	23 27.9 172	0.0003 SPS -0.00006 SPS	'MUSTANG 115KV' 'MUSTANG 115KV'	300         0.42994         -0.42864         8           300         0.42994         -0.42964         8           300         0.42994         -0.42964         8
SPS WEPL AEPW SPS	RUSSELL 115KV' RVRSIDEG13.8 138KV' 'SIDRCH 69KV'	23 27.9 172 6	0.0003 SPS -0.00006 SPS 0.0013 SPS	MUSTANG 115KV' MUSTANG 115KV' MUSTANG 115KV'	300         0.42994         -0.42864         8           300         0.42994         -0.42964         8           300         0.42994         -0.43         8           300         0.42994         -0.42864         8
SPS WEPL AEPW	'RUSSELL 115KV' 'RVRSIDEG13.8 138KV'	23 27.9 172	0.0003 SPS -0.00006 SPS 0.0013 SPS	MUSTANG 115KV' MUSTANG 115KV' MUSTANG 115KV' MUSTANG 115KV' MUSTANG 115KV'	300         0.42994         -0.42864         8           300         0.42994         -0.42964         8           300         0.42994         -0.42964         8
SPS WEPL AEPW SPS	RUSSELL 115KV' RVRSIDEG13.8 138KV' 'SIDRCH 69KV'	23 27.9 172 6	0.0003 SPS -0.00006 SPS 0.0013 SPS 0.00021 SPS	MUSTANG 115KV' MUSTANG 115KV' MUSTANG 115KV' MUSTANG 115KV' MUSTANG 115KV'	300         0.42994         -0.42864         8           300         0.42994         -0.42964         8           300         0.42994         -0.43         8           300         0.42994         -0.42864         8
SPS WEPL AEPW SPS WEPL	RUSSELL 115KV'           FURSIDECT38 138KV'           SIDRCH 69KV'           'SMITH CENTER 115KV'           'SOUTH DODGE 115KV'	23 27.9 172 6 6.15	0.0003 SPS -0.00006 SPS 0.0013 SPS 0.00021 SPS 0.00051 SPS	MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV	300         0.42994         0.42864         8           300         0.42994         0.42864         8           300         0.42994         -0.43         8           300         0.42994         -0.43         8           300         0.42994         -0.42864         8           300         0.42994         -0.4297         8           300         0.42994         -0.42973         8           300         0.42994         -0.42973         8
SPS WEPL AEPW SPS WEPL WEPL AEPW	RUSSELL 115KV' RVRSIDEG13.8 138KV' SIDRCH 69KV' SMITH CENTER 115KV' SOUTH DODGE 115KV' SOUTHWESTERN STATION 138KV'	23 27.5 172 6 6.15 4.2 673	0.0003 SPS -0.00006 SPS 0.0013 SPS 0.00021 SPS 0.00051 SPS -0.00012 SPS	MUSTANG 115KV' MUSTANG 115KV' MUSTANG 115KV' MUSTANG 115KV' MUSTANG 115KV' MUSTANG 115KV'	300         0.42984         -0.42864         -8           300         0.42984         -0.4284         -8           300         0.42984         -0.43         -8           300         0.42984         -0.43         -8           300         0.42984         -0.43         -8           300         0.42984         -0.4264         -8           300         0.42984         -0.4264         -8           300         0.42984         -0.4264         -8           300         0.42984         -0.4264         -8           300         0.42984         -0.4206         -8
SPS           WEPL           AEPW           SPS           WEPL           WEPL           AEPW           SPS           SPS	RUSSELL 115KV' EVRSIDEG138 138KV' SIDRCH 68KV' SMITH CENTER 115KV' SOUTH DODGE 115KV' SOUTH DODGE 115KV SOUTH MUSSTERN STATION 138KV' TOLK 230KV'	23 27.9 6 6.19 4.2 673 56.72763	0.0003 SPS -0.0006 SPS 0.0013 SPS 0.00021 SPS 0.00051 SPS -0.00012 SPS 0.00375 SPS	MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV	300         0.42994         0.42864         8           300         0.42994         0.42964         8           300         0.42994         -0.43         8           300         0.42994         -0.42864         8           300         0.42994         -0.42864         8           300         0.42994         -0.42964         8           300         0.42994         -0.42943         8           300         0.42994         -0.42943         8           300         0.42994         -0.42943         8           300         0.42994         -0.42913         8           300         0.42994         -0.42913         8
SPS           WEPL           AEPW           SPS           WEPL           WEPL           AEPW           SPS           SPS           SPS           SPS	RUSSELL 115KV' RVRSIDEG13.8 138KV' SIDRCH 68KV SMITH CENTER 115KV' SOUTH DODGE 115KV' SOUTHWESTERN STATION 138KV' TOLK 230KV' TOLK 230KV' TUCUMCARI 115KV'	23 27.5 172 6.15 4.2 673 56.72763 15	0.0003 SPS -0.0006 SPS 0.0013 SPS 0.00021 SPS 0.00051 SPS -0.0012 SPS 0.00375 SPS -0.00267 SPS	MUSTANG 115KV' MUSTANG 115KV' MUSTANG 115KV' MUSTANG 115KV' MUSTANG 115KV' MUSTANG 115KV' MUSTANG 115KV' MUSTANG 115KV' MUSTANG 115KV'	300         0.42994         -0.42964         8           300         0.42994         -0.42964         8           300         0.42994         -0.43         8           300         0.42994         -0.42964         8           300         0.42994         -0.42964         8           300         0.42994         -0.42973         8           300         0.42994         -0.42973         8           300         0.42994         -0.42973         8           300         0.42994         -0.42973         8           300         0.42994         -0.42913         8           300         0.42994         -0.42913         8           300         0.42994         -0.42918         8           300         0.42994         -0.42918         8
SPS           WEPL           AEPW           SPS           WEPL           AEPW           SPS           SPS           SPS           SPS           SPS           AEPW           SPS           SPS           AEPW           SPS           AEPW	RUSSELL 115KV' EVRSIDEG138 138KV' SIDROCH 68KV' SOUTH DODGE 115KV' SOUTH DODGE 115KV' SOUTHWESTERN STATION 138KV' TOLK 230KV' TUCUMCARI 115KV' TUCUMCARI 115KV'	23 27.9 172 6 6.19 4.2 673 56.72763 56.72763 19 294	0.0003 SPS -0.0006 SPS 0.0013 SPS 0.00021 SPS 0.00021 SPS -0.00012 SPS 0.00037 SPS -0.00267 SPS -0.00267 SPS -0.0006 SPS	MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV	300         0.42994         0.42864         8           300         0.42994         0.42964         8           300         0.42994         -0.43         8           300         0.42994         -0.42864         8           300         0.42994         -0.42864         8           300         0.42994         -0.4286         8           300         0.42994         -0.42913         8           300         0.42994         -0.42913         8           300         0.42994         -0.42019         8           300         0.42994         -0.42619         8           300         0.42994         -0.42619         8           300         0.42994         -0.42619         8           300         0.42994         -0.4261         8
SPS           WEPL           AEPW           SPS           WEPL           AEPW           SPS           SPS           AEPW           SPS           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW	RUSSELL 115KV'           RVRSIDEG13.8 138KV'           SIDRCH 69KV           'SMITH CENTER 115KV'           'SOUTH DODE 115KV'           'SOUTH DODE 115KV'           'TOLK 230KV'           'TUCUMCARI 115KV'           'TULSA POWER STATION 138KV'           'TULSA POWER STATION 138KV'	23 27.5 6 6.11 4.2 673 56.72763 15 294 80	0.0003 SPS -0.0006 SPS 0.0013 SPS 0.00021 SPS 0.00051 SPS 0.00051 SPS 0.00375 SPS -0.00267 SPS -0.00267 SPS -0.0006 SPS	MUSTANG 115KV'	300         0.42994         -0.42964         8           300         0.42994         -0.43         8           300         0.42994         -0.43         8           300         0.42994         -0.42964         8           300         0.42994         0.42964         8           300         0.42994         0.42973         8           300         0.42994         -0.42973         8           300         0.42994         -0.4306         8           300         0.42994         -0.42063         8           300         0.42994         -0.433         8           300         0.42994         -0.43         8
SPS           WEPL           AEPW           SPS           WEPL           AEPW           SPS           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW	RUSSELL 115KV' EVRSIDEG138 138KV SIDROCH 69KV' SOUTH 60KVER 115KV' SOUTH DODGE 115KV' SOUTHWESTERN STATION 138KV' TUCLWCARI 115KV' TUCLWCARI 115KV' TULSA POWER STATION 69KV' WELEETKA 138KV'	23 27.5 6 6.15 4.2 673 56.72763 15 2244 86 86 162	0.0003 SPS -0.0006 SPS 0.0013 SPS 0.00021 SPS -0.0001 SPS -0.00012 SPS -0.00012 SPS -0.00267 SPS -0.0006 SPS -0.00006 SPS -0.00009 SPS	MUSTANG         115KV'	300         0.42994         0.42964         8           300         0.42994         0.42964         8           300         0.42994         0.43964         8           300         0.42994         0.43964         8           300         0.42994         0.42664         8           300         0.42994         0.42973         8           300         0.42994         0.42913         8           300         0.42994         0.42919         8           300         0.42994         0.42919         8           300         0.42994         0.43261         8           300         0.42994         -0.433         8           300         0.42994         -0.433         8           300         0.42994         -0.433         8           300         0.42994         -0.433         8           300         0.42994         -0.433         8
SPS           WEPL           AEPW           SPS           WEPL           AEPW           SPS           SPS           AEPW	RUSSELL 115KV'           EVRSIDECI38 138KV'           SIDRCH 69KV'           SIDRCH 69KV'           SOUTH DODE 115KV'           SOUTH DODE 115KV'           SOUTH DODE 115KV'           TOLK 230KV           TUCUMCARI 115KV           TULSA POWER STATION 138KV'           TULSA POWER STATION 138KV'           WELSH 345KV'           WELSH 345KV'	23 27.5 6.1 6.1 6.1 6.1 6.7 67 56.7276 15 294 80 162 294 80 162 294 80 162 33	0.0003 SPS -0.0006 SPS 0.0001 SPS 0.00021 SPS 0.00051 SPS 0.00051 SPS 0.00075 SPS -0.00075 SPS -0.00006 SPS -0.00006 SPS -0.00006 SPS -0.00009 SPS	MUSTANG 115KV MUSTANG 115KV	300         0.42994         0.42964         8           300         0.42994         0.42964         8           300         0.42994         0.42984         8           300         0.42994         0.42964         8           300         0.42984         0.42973         8           300         0.42984         0.42963         8           300         0.42984         0.42963         8           300         0.42984         0.42963         8           300         0.42984         0.42963         8           300         0.42984         0.4306         8           300         0.42984         0.4306         8           300         0.42984         0.4306         8           300         0.42984         0.4300         8           300         0.42984         0.4300         8           300         0.42984         0.4300         8           300         0.42984         0.4300         8           300         0.42984         0.4300         8
SPS           WEPL           AEPW           SPS           WEPL           AEFW           SPS           SPS           AEPW	RUSSELL 115KV'           RVRSIDECIAS 138KV           SIDROCH 69KV'           SOUTH CENTER 115KV'           SOUTHWESTERN STATION 138KV'           TOLK 230KV'           TUCUMCARI 115KV'           TULSA POWER STATION 138KV'           TULSA POWER STATION 69KV'           WELEETKA 136KV'           WELEETKA 136KV'           WELEETKA 136KV'	23 27.5 177 6 6.15 4.2 677 56.72763 15 224 8 8 162 32 392 392	0.0003 SPS -0.00006 SPS 0.00013 SPS 0.00021 SPS -0.00012 SPS -0.00012 SPS -0.00027 SPS -0.00026 SPS -0.00006 SPS -0.00006 SPS -0.00007 SPS	MUSTANG         115KV	300         0.42994         0.42964         8           300         0.42994         0.42964         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.4297         8           300         0.42994         0.4297         8           300         0.42994         0.42914         8           300         0.42994         0.42919         8           300         0.42994         0.43216         8           300         0.42994         0.433         8           300         0.42994         0.433         8           300         0.42994         0.433         8           300         0.42994         0.433         8           300         0.42994         0.433         8           300         0.42994         0.43001         8           300         0.42994         0.43001         8
SPS           WEPL           AEPW           SPS           WEPL           AEPW           SPS           SPS           AEPW	RUSSELL 115KV'           FURSIDECI38 138KV/           SIDRCH 69KV           SIDRCH 69KV           SOUTH DODGE 115KV'           SOUTH DODGE 115KV           SOUTH DODGE 115KV           TOLK 230KV           TULSA POWER STATION 138KV'           TULSA POWER STATION 138KV           TULSA POWER STATION 138KV           WELEETKA 138KV           WELETKA 138KV           WULES 138KV           WULKES 138KV           WULKES 138KV	22 27.5 177 6 4.2 6 67 5 66.72 6 7 5 66.72 6 3 29 80 16 16 33 29 181.0377	0.0003 SPS 0.0003 SPS 0.0013 SPS 0.00021 SPS 0.00021 SPS 0.00021 SPS 0.00025 SPS 0.00267 SPS 0.00267 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS	MUSTANG 115KV MUSTANG 115KV	300         0.42994         -0.42964         8           300         0.42994         -0.43         8           300         0.42994         -0.43         8           300         0.42994         -0.43         8           300         0.42994         -0.42975         8           300         0.42994         -0.42975         8           300         0.42994         -0.42963         8           300         0.42994         -0.42919         8           300         0.42994         -0.4219         8           300         0.42994         -0.431         8           300         0.42994         -0.433         8           300         0.42994         -0.431         8           300         0.42994         -0.433         8           300         0.42994         -0.433         8           300         0.42994         -0.433         8           300         0.42994         -0.433         8
SPS           WEPL           AEPW           SPS           WEPL           AEPW           SPS           SPS           AEPW           SPS           SPS	RUSSELL 115KV'           RVRSIDECIAS 138KV           SIDROCH 69KV'           SOUTH VENTER 115KV'           SOUTHWERTER 15KV'           SOUTHWERTER STATION 138KV'           TULSA POWER STATION 69KV'           WELEETKA 138KV'           WELEETKA 138KV'           WILKES 138KV'           WILKES 345KV           CUNNINGHAM 115KV'	22 27.5 177 6.1 4.2 6.7 56.7276 56.7276 16 16 16 30 392 181.0377 93.00244	0.0003 SPS -0.00006 SPS 0.00013 SPS 0.00021 SPS -0.00012 SPS -0.00012 SPS -0.00025 SPS -0.00026 SPS -0.00006 SPS -0.00006 SPS -0.000005 SPS -0.000005 SPS -0.00006 SPS -0.00006 SPS -0.00006 SPS -0.00006 SPS -0.00006 SPS -0.00006 SPS -0.016155 SPS	MUSTANG 115KV MUSTANG 115KV	300         0.42994         0.42964         8           300         0.42994         0.42964         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.4297         8           300         0.42994         0.4297         8           300         0.42994         0.42918         8           300         0.42994         0.42919         8           300         0.42994         0.43261         8           300         0.42994         0.43261         8           300         0.42994         0.4303         8           300         0.42994         0.4303         8           300         0.42994         0.43003         8           300         0.42994         0.43003         8           300         0.42994         0.43003         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.43         8     <
SPS           WEPL           AEPW           SPS           WEPL           AEPW           SPS           SPS           AEPW           SPS           SPS           SPS           SPS	RUSSELL 115KV'           EVRSIDEG138 138KV'           SIDRCH 68KV'           SOUTH ODOGE 115KV'           SOUTH DODGE 115KV'           SOUTH MODGE 115KV'           TOLK 236KV'           TULSA POWER STATION 138KV'           TULSA POWER STATION 68KV'           WELEFK 138KV'           WELEFK 138KV'           WULES 138KV'           WULKES 345KV'           CUNNINGHAM 115KV'           CUNNINGHAM 115KV'	22 27.3 172 6.6.1 4.2 677 56.72763 16 294 86 162 332 392 181.0377 93.00244 93.00244	0.0003 SPS 0.0003 SPS 0.00013 SPS 0.00021 SPS 0.00021 SPS 0.00012 SPS 0.00071 SPS 0.00075 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.016155 SPS	MUSTANG 115KV           MUSTANG 1000000000000000000000000000000000000	300         0.42994         -0.42964         8           300         0.42994         -0.43         8           300         0.42994         -0.43         8           300         0.42994         -0.43         8           300         0.42994         0.42975         8           300         0.42994         0.42975         8           300         0.42994         0.42961         8           300         0.42994         0.42619         8           300         0.42994         -0.43006         8           300         0.42994         -0.43261         8           300         0.42994         -0.433         8           300         0.42994         -0.433         8           300         0.42994         -0.433         8           300         0.42994         -0.433         8           300         0.42994         -0.433         8           300         0.42994         -0.433         8           300         0.42994         -0.433         8           300         0.42994         -0.433         8           300         0.42994         -0.433         8<
SPS           WEPL           AEPW           SPS           WEPL           AEPW           SPS           SPS           AEPW           SPS           SPS           SPS           SPS           SPS           SPS           SPS           SPS           SPS	RUSSELL 115KV'           RVRSIDECI38 138KV           SIDROCH 69KV'           SOUTH VESTER 115KV'           SOUTH DODGE 115KV'           SOUTHWESTERN STATION 138KV'           TULCUNCARI 115KV'           TULSA POWER STATION 138KV'           TULSA POWER STATION 69KV'           WELEETKN 138KV'           WELETKA 136KV'           WULKES 138KV'           WULKES 345KV           CUNNINGHAM 115KV'           CUNNINGHAM 115KV'	22 27.3 177 6 6.15 267 56.7276 294 86 86 86 162 33 392 181.0377 93.00244 93.00244 77	0.0003 SPS 0.00005 SPS 0.00013 SPS 0.00021 SPS 0.00021 SPS 0.00021 SPS 0.00027 SPS 0.00027 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.016155 SPS 0.016155 SPS	MUSTANG 115KV           MUSTANG 215KV           MUSTANG 200KV           MUSTANG 200KV           MUSTANG 200KV	300         0.42994         0.42964         8           300         0.42994         0.42964         8           300         0.42994         0.42964         8           300         0.42994         0.42964         8           300         0.42994         0.42973         8           300         0.42994         0.42973         8           300         0.42994         0.42913         8           300         0.42994         0.42913         8           300         0.42994         0.42914         8           300         0.42994         0.43281         8           300         0.42994         0.43281         8           300         0.42994         0.433         8           300         0.42994         0.43300         8           300         0.42994         0.43300         8           300         0.42994         0.43300         8           300         0.42994         0.433         8           300         0.42994         0.433         8           300         0.42994         0.433         8           160         0.16058         0.31213 <t< td=""></t<>
SPS           WEPL           AEPW           SPS           WEPL           AEPW           SPS           SPS           AEPW           SPS           SPS           SPS           SPS	RUSSELL 115KV'           EVRSIDEG138 138KV'           SIDRCH 68KV'           SOUTH ODOGE 115KV'           SOUTH DODGE 115KV'           SOUTH MODGE 115KV'           TOLK 236KV'           TULSA POWER STATION 138KV'           TULSA POWER STATION 68KV'           WELEFK 138KV'           WELEFK 138KV'           WULES 138KV'           WULKES 345KV'           CUNNINGHAM 115KV'           CUNNINGHAM 115KV'	22 27.3 172 6.6.1 4.2 677 56.72763 16 294 86 162 332 392 181.0377 93.00244 93.00244	0.0003 SPS 0.00005 SPS 0.00013 SPS 0.00021 SPS 0.00021 SPS 0.00021 SPS 0.00027 SPS 0.00027 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.016155 SPS 0.016155 SPS	MUSTANG 115KV           MUSTANG 1000000000000000000000000000000000000	300         0.42994         -0.42964         8           300         0.42994         -0.43         8           300         0.42994         -0.43         8           300         0.42994         -0.43         8           300         0.42994         0.42975         8           300         0.42994         0.42975         8           300         0.42994         0.42961         8           300         0.42994         0.42619         8           300         0.42994         -0.43006         8           300         0.42994         -0.43261         8           300         0.42994         -0.433         8           300         0.42994         -0.433         8           300         0.42994         -0.433         8           300         0.42994         -0.433         8           300         0.42994         -0.433         8           300         0.42994         -0.433         8           300         0.42994         -0.433         8           300         0.42994         -0.433         8           300         0.42994         -0.433         8<
SPS           WEPL           AEPW           SPS           WEPL           AEPW           SPS           SPS           AEPW           SPS           SPS           SPS           SPS           SPS           SPS           SPS           SPS           SPS	RUSSELL 115KV'           RVRSIDECI38 138KV           SIDROCH 69KV'           SOUTH VESTER 115KV'           SOUTH DODGE 115KV'           SOUTHWESTERN STATION 138KV'           TULCUNCARI 115KV'           TULSA POWER STATION 138KV'           TULSA POWER STATION 69KV'           WELEETKN 138KV'           WELETKA 136KV'           WULKES 138KV'           WULKES 345KV           CUNNINGHAM 115KV'           CUNNINGHAM 115KV'	22 27.3 177 6 6.15 267 56.7276 294 86 86 86 162 33 392 181.0377 93.00244 93.00244 77	0.0003 SPS 0.0003 SPS 0.00013 SPS 0.00021 SPS 0.00021 SPS 0.00071 SPS 0.00072 SPS 0.00075 SPS 0.00075 SPS 0.00006 SPS 0.00007	MUSTANG 115KV           MUSTANG 215KV           MUSTANG 200KV           MUSTANG 200KV           MUSTANG 200KV	300         0.42994         0.42964         8           300         0.42994         0.42964         8           300         0.42994         0.42964         8           300         0.42994         0.42964         8           300         0.42994         0.42973         8           300         0.42994         0.42973         8           300         0.42994         0.42913         8           300         0.42994         0.42913         8           300         0.42994         0.42914         8           300         0.42994         0.43281         8           300         0.42994         0.43281         8           300         0.42994         0.433         8           300         0.42994         0.43300         8           300         0.42994         0.43300         8           300         0.42994         0.43300         8           300         0.42994         0.433         8           300         0.42994         0.433         8           300         0.42994         0.433         8           160         0.16058         0.31213 <t< td=""></t<>
SPS           WEPL           AEPW           SPS           WEPL           WEPL           AEPW           SPS	RUSSELL 115KV'           RVRSIDEC138 138KV           SIDROCH 69KV'           SOUTH ODDGE 115KV'           SOUTH DODGE 115KV           SOUTH VESTERN STATION 138KV           TULCMCARL 115KV           TULCMCARL 115KV           TULSA POWER STATION 138KV'           TULSA POWER STATION 69KV           WELEETKA 138KV           WILLES 138KV           WULKES 345KV           WULKES 345KV           CUNNINGHAM 115KV'           CUNNINGHAM 115KV           MADOX 115KV           MADOX 115KV           MUSTANG 230KY	22 27.5 172 6 6.15 4.2 677 56.72765 56.72765 56.72765 162 339 340024 8 3300244 93.00244 93.00244 77	0.0003 SPS 0.00013 SPS 0.00013 SPS 0.00013 SPS 0.00021 SPS 0.00021 SPS 0.00021 SPS 0.00027 SPS 0.00026 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.0116155 SPS 0.016165 SPS 0.016452 SPS 0.016452 SPS	MUSTANG 115KV           MUSTANG 215KV           MUSTANG 200KV           MUSTANG 200KV           MUSTANG 115KV           MUSTANG 115KV           MUSTANG 115KV           MUSTANG 115KV           MUSTANG 115KV           MUSTANG 115KV	300         0.42994         0.42964         8           300         0.42994         0.42964         8           300         0.42994         0.42964         8           300         0.42994         0.42964         8           300         0.42994         0.42973         8           300         0.42994         0.42973         8           300         0.42994         0.42973         8           300         0.42994         0.42913         8           300         0.42994         0.42914         8           300         0.42994         0.43261         8           300         0.42994         -0.43         8           300         0.42994         -0.43         8           300         0.42994         -0.43         8           300         0.42994         -0.43         8           300         0.42994         -0.43         8           300         0.42994         -0.43         8           300         0.42994         -0.43         8           300         0.42994         -0.43         8           300         0.42994         -0.31213         11
SPS           WEPL           AEPW           SPS           WEPL           AEPW           SPS           SPS           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           SPS	RUSSELL 115KV'           RVRSIDEC138 138KV           SIDROCH 68KV'           SOUTH DODGE 115KV'           SOUTH DODGE 115KV'           SOUTH MODGE 115KV'           TOLK 230KV           TUCUMCARI 115KV'           TULSA POWER STATION 138KV'           TULSA POWER STATION 68KV'           WELEETKA 138KV'           WILKES 138KV'           WILKES 345KV'           CUNNINGHAM 115KV'           CUNNINGHAM 115KV'           MADOX 115KV'	222 275 172 6 6 6 7 7 5 6 7 7 5 6 7 7 7 8 8 8 8 8 8 8 9 9 9 9 3 9 9 3 00244 7 7 7 7 7 7 7 7 7 7 7 7 7 7 9 3 0024 9 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.0003 SPS 0.0003 SPS 0.00013 SPS 0.00021 SPS 0.00021 SPS 0.00071 SPS 0.00072 SPS 0.00075 SPS 0.00075 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.016155 SPS 0.016155 SPS 0.016155 SPS 0.016452 SPS 0.15658 SPS 0.15658 SPS 0.15658 SPS	MUSTANG 115KV           MUSTANG 200V           MUSTANG 200V           MUSTANG 200V           MUSTANG 200V           MUSTANG 200V	300         0.42994         0.42964         8           300         0.42994         0.42964         8           300         0.42994         0.42964         8           300         0.42994         0.42964         8           300         0.42994         0.42973         8           300         0.42994         0.42973         8           300         0.42994         0.42973         8           300         0.42994         0.42913         8           300         0.42994         0.42916         8           300         0.42994         0.43261         8           300         0.42994         0.432         8           300         0.42994         0.433         8           300         0.42994         0.433         8           300         0.42994         0.433         8           300         0.42994         0.433         8           300         0.42994         0.433         8           300         0.42994         0.433         8           300         0.42994         0.433         8           300         0.42994         0.433         8
SPS           WEPL           AEPW           SPS           WEPL           AEPW           SPS           SPS           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           SPS	RUSSELL 115KV'           RVRSIDEC138 138KV           SIDROCH 69KV'           SOUTH ODDGE 115KV'           SOUTH DODGE 115KV           SOUTH ODDGE 115KV           SOUTH ODDGE 115KV           TOLK 230KV           TULWACARL 115KV           TULWACARL 115KV           TULSA POWER STATION 138KV           TULSA POWER STATION 69KV           WELEETKA 138KV           WILKES 138KV           WULKES 345KV           CUNNINGHAM 115KV'           CUNNINGHAM 115KV           MADOX 115KV           MADOX 115KV           MUSTANG 230KY'           CARLSBAD 69KV           CARLSBAD 69KV	222 275 772 6 6 6 773 56.7276 7 7 8 8 7 8 8 7 8 8 7 8 8 9 30024 9 30024 9 30024 7 7 7 7 7 7 7 7 7 7 7 7 8 15 15 15 15 15 15 15 15 15 15 15 15 15	0.0003 SPS 0.00013 SPS 0.00013 SPS 0.00021 SPS 0.00021 SPS 0.00021 SPS 0.00021 SPS 0.00027 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.016155 SPS 0.016155 SPS 0.016155 SPS 0.016155 SPS 0.016452 SPS 0.016652 SPS 0.01662 SPS 0.01562 SPS	MUSTANG 115KV           MUSTANG 20KV           MUSTANG 115KV           MUSTANG 20KV           MUSTANG 115KV           MUSTANG 20KV	300         0.42994         0.42964         8           300         0.42994         0.42964         8           300         0.42994         0.42964         8           300         0.42994         0.42964         8           300         0.42994         0.42973         8           300         0.42994         0.42973         8           300         0.42994         0.42973         8           300         0.42994         0.42973         8           300         0.42994         0.42918         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.31213         11
SPS           WEPL           AEPW           SPS           WEPL           AEPW           SPS	RUSSELL 115KV'           RVRSIDECIAS 138KV           SIDROCH 69KV'           SOUTH DODGE 115KV'           SOUTH DODGE 115KV'           SOUTH HODGE 115KV'           TOLK 236KV           TUCUMCARI 115KV'           TULSA POWER STATION 138KV'           TULSA POWER STATION 69KV'           WELEETKA 138KV           WULKES 138KV           WULKES 345KV           CUINNINGHAM 115KV'           CUINNINGHAM 115KV'           MADOX 115KV           MADOX 115KV           CARLSBAD 69KV           CARLSBAD 69KV           CARUSABD 69KV	222 27.9 17.7 6.0 4.2 6.7 566.72765 156.72765 162.234 8.0 162.33 3362.2 181.0377 9.3.00244 9.3.00244 9.3.00244 9.3.00244 155.7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	0.0003 SPS 0.0003 SPS 0.00013 SPS 0.00013 SPS 0.00021 SPS 0.00071 SPS 0.00071 SPS 0.00075 SPS 0.00075 SPS 0.00006 SPS 0.000005 SPS 0.000005 SPS 0.000005 SPS 0.000005 SPS 0.000005 SPS 0.000005 SPS 0.016155 SPS 0.016155 SPS 0.016155 SPS 0.016452 SPS 0.016452 SPS 0.016452 SPS 0.016452 SPS 0.007652 SPS 0.007652 SPS	MUSTANG 115KV           MUSTANG 230KV           MUSTANG 115L0 230KV           MUSTANG 115KV           MUSTANG 230KV           MUSTANG 115KV           MUSTANG 230KV           MUSTANG 230KV           MUSTANG 230KV           MUSTANG 230KV           MUSTANG 230KV           MUSTANG 230KV	300         0.42984         0.42984         0.42984           300         0.42994         0.42984         0.42984           300         0.42994         0.42984         0.42984           300         0.42994         0.42973         8           300         0.42994         0.42973         8           300         0.42994         0.42973         8           300         0.42994         0.42973         8           300         0.42994         0.42904         8           300         0.42994         0.42915         8           300         0.42994         0.4261         8           300         0.42994         0.43261         8           300         0.42994         0.433         8           300         0.42994         0.433         8           300         0.42994         0.433         8           300         0.42994         0.433         8           300         0.42994         0.433         8           300         0.42994         0.433         8           160         0.16058         0.3151         11           50         0.16058         0.3151
SPS           WEPL           AEPW           SPS           WEPL           AEFW           SPS           SPS           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           SPS	RUSSELL 115KV'           RVRSIDEC138 138KV           SIDROCH 69KV'           SOUTH ODDGE 115KV'           SOUTH ODDGE 115KV'           SOUTH ODDGE 115KV'           TOLK 230KV'           TULWARARI 115KV           TULWARARI 115KV           TULS APOWER STATION 138KV'           TULS APOWER STATION 69KV           WELSH 345KV           CUNNINGHAM 115KV'           CUNNINGHAM 115KV'           CUNNINGHAM 115KV'           CUNNINGHAM 115KV'           MADOX 115KV           MUSTANG 230KV'           CARLSBAD 69KV           CARLSBAD 69KV           CARLSBAD 69KV           CARLSBAD 69KV           MADOX 115KV           MADOX 115KV           MADOX 115KV	222 275 777 6 6 6.15 4.2. 6 77 5 6.7276 8 8 8 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7	0.0003 SPS 0.00013 SPS 0.00013 SPS 0.00021 SPS 0.00021 SPS 0.00021 SPS 0.00021 SPS 0.00027 SPS 0.00006 SPS 0.0116155 SPS 0.016155 SPS 0.016452 SPS 0.016452 SPS 0.016622 SPS 0.016622 SPS 0.016622 SPS 0.016622 SPS	MUSTANG 115KV           MUSTANG 205KV           MUSTANG 206VV           MUSTANG 200KV	300         0.42994         0.42964         8           300         0.42994         0.42964         8           300         0.42994         0.42964         8           300         0.42994         0.42964         8           300         0.42994         0.42973         8           300         0.42994         0.42973         8           300         0.42994         0.42973         8           300         0.42994         0.4306         8           300         0.42994         0.4306         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.43         8           160         0.15058         0.31213         11
SPS           WEPL           AEPW           SPS           WEPL           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           SPS	RUSSELL 115KV'           RVRSIDECIAS 138KV           SIDROCH 69KV           SOMTH CENTER 115KV'           SOUTH DODGE 115KV'           SOUTHWESTERN STATION 138KV'           TUCLK 236KV           TULSA POWER STATION 68KV'           WELEETKA 138KV           WILKES 138KV           WULKES 345KV           CUNNINGHAM 115KV'           CUNNINGHAM 115KV'           MADOX 115KV           CUNNINGHAM 115KV'           MADOX 115KV           MADX 115KV	222 27.9 177 6.0 11 4.2 66.7276 566.72765 16 323 3362 181.0377 93.00244 93.00244 93.00244 93.00244 15 77 75 15 77 75 15 77 93.00244 93.0024 93.00244 93.00249 93.0024	0.0003 SPS 0.0003 SPS 0.00013 SPS 0.00013 SPS 0.00021 SPS 0.00021 SPS 0.00027 SPS 0.000267 SPS 0.00006 SPS 0.00006 SPS 0.000005 SPS 0.000005 SPS 0.000005 SPS 0.000005 SPS 0.000005 SPS 0.000005 SPS 0.016155 SPS 0.016452 SPS	MUSTANG 115KV           MUSTANG 200KV           MUSTANG 115KV           MUSTANG 200KV           MUSTANG 115KV           MUSTANG 200KV           MUSTANG 200KV           MUSTANG 115KV           MUSTANG 200KV           MUSTANG 200KV           PLANTX 200KV           TOLK 200KV           TOLK 200KV	300         0.42984         0.42984         0.42984           300         0.42994         0.42984         8           300         0.42994         0.42984         8           300         0.42994         0.42973         8           300         0.42994         0.42973         8           300         0.42994         0.42973         8           300         0.42994         0.42973         8           300         0.42994         0.42904         8           300         0.42994         0.42915         8           300         0.42994         0.42616         8           300         0.42994         0.43261         8           300         0.42994         0.4303         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.43         8           160         0.16058         0.3151         11           50         0.16058         0.3151         11
SPS           WEPL           AEPW           SPS           WEPL           AEFW           SPS           SPS           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           SPS	RUSSELL 115KV'           RVRSIDEC138 138KV           SIDROCH 69KV'           SOUTH ODDGE 115KV'           SOUTH ODDGE 115KV'           SOUTH ODDGE 115KV'           SOUTH VESTERN STATION 138KV'           TULUKACRRI 115KV           TULS APOWER STATION 138KV'           TULSA POWER STATION 66KV           WELSH 345KV           WULKES 138KV           CUNNINGHAM 115KV'           CUNNINGHAM 115KV'           CUNNINGHAM 115KV           MADOX 115KV           MADOX 115KV           CARLSBAD 69KV           CARLSBAD 69KV           CARLSBAD 69KV           CUNNINGHAM 115KV           MADOX 115KV           MADOX 115KV           CUNNINGHAM 115KV'           CUNNINGHAM 115KV'           CUNNINGHAM 115KV'	222 275 177 6 6 6.15 4.2. 6 7 5 6.7276 8 8 8 16 3 3 9 3.0244 9 3.00245 9 3.00245 3.0025 3.0	0.0003 SPS 0.00013 SPS 0.00013 SPS 0.00021 SPS 0.00021 SPS 0.00021 SPS 0.00021 SPS 0.00027 SPS 0.00006 SPS 0.0116155 SPS 0.016452 SPS	MUSTANG 115KV           MUSTANG 205KV           MUSTANG 206KV           MUSTANG 115KV           MUSTANG 115KV	300         0.42994         0.42964         8           300         0.42994         0.42964         8           300         0.42994         0.42964         8           300         0.42994         0.42964         8           300         0.42994         0.42973         8           300         0.42994         0.42973         8           300         0.42994         0.42973         8           300         0.42994         0.4306         8           300         0.42994         0.4306         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.43         8           160         0.15058         0.31213         11           50         0.15058         0.3151         11
SPS           WEPL           AEPW           SPS           WEPL           WEPL           AEPW           SPS	RUSSELL 115KV'           RVRSIDECIAS 138KV           SIDROCH 69KV'           SOUTH CONCERTING 138KV'           SOUTH DODGE 115KV'           SOUTHWESTERN STATION 138KV'           TUCUMCARI 115KV           TULSA POWER STATION 69KV'           WELEETKA 138KV'           WILKES 138KV'           WILKES 138KV'           WULKES 345KV           WULKES 345KV'           CUNNINGHAM 115KV'           CUNNINGHAM 115KV'           MADOX 115KV'           MADOX 115KV'           MADOX 115KV'           MADOX 115KV'           MADOX 115KV           MADOX 115KV           CUNNINGHAM 115KV'           CONNINGHAM 115KV'           CUNNINGHAM 115KV'	225 275 172 6 6 6 7 7 5 5 6 7 7 5 5 7 7 5 7 7 5 7 7 7 7	0.0003 SPS 0.00013 SPS 0.00013 SPS 0.00013 SPS 0.00051 SPS 0.00051 SPS 0.00051 SPS 0.00051 SPS 0.00051 SPS 0.00006 SPS 0.016155 SPS 0.16452 SPS 0.16452 SPS 0.16452 SPS 0.016452 SPS 0.016	MUSTANG 115KV           MUSTANG 200KV           MUSTANG 200KV           MUSTANG 200KV           MUSTANG 200KV           MUSTANG 200KV           MUSTANG 200KV           PLANTX 200KV           PLANTX 200KV           PLANTX 200KV           TOLK 200KV           PLANTX 200KV           TOLK 200KV           BLACKHAWK 115KV           COGENTRIX 345KV	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
SPS           WEPL           AEPW           SPS           WEPL           AEPW           SPS           SPS           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           SPS	RUSSELL 115KV'           RVRSIDEC138 138KV           SIDROCH 69KV'           SOUTH ODDGE 115KV'           SOUTH DODGE 115KV           SOUTH CARLERN 151KV'           TOLK 230KV           TOLK 230KV           TULSA POWER STATION 138KV           TULSA POWER STATION 138KV           TULSA POWER STATION 138KV           WELSH 348KV'           WILKES 138KV'           CUNNINGHAM 115KV           CUNNINGHAM 115KV           CUNNINGHAM 115KV           CUNNINGHAM 115KV           CARLSBAD 69KV           CARLSBAD 69KV           CARLSBAD 69KV           CUNNINGHAM 115KV	222 275 6 6 6 15 6 7 5 6 7 7 5 6 7 7 7 7 7 7 7 7 7 7 7	0.0003 SPS 0.00013 SPS 0.00013 SPS 0.00021 SPS 0.00021 SPS 0.00021 SPS 0.00021 SPS 0.00027 SPS 0.00027 SPS 0.00006 SPS 0.00000 SPS 0.000000 SPS 0.0000000000000000000000000000000000	MUSTANG 115KV           MUSTANG 230KV	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
SPS           WEPL           AEPW           SPS           WEPL           AEPW           SPS           SPS           SPS           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           SPS           SPS	RUSSELL 115KV'           RVRSIDECIAS 138KV           SIDROCH 69KV'           SOUTH VENTER 115KV'           SOUTH DODGE 115KV'           SOUTHWERTER STATION 138KV'           TUCUMCARI 115KV           TULSA POWER STATION 69KV'           WELEETKA 136KV           WELETKA 136KV           CUNNINGHAM 115KV           CUNNINGHAM 115KV           CUNNINGHAM 115KV           MADOX 115KV           MADOX 115KV           CARLSBAD 69KV           CARLSBAD 69KV           CARLSBAD 69KV           CUNNINGHAM 115KV           MADOX 115KV           CUNNINGHAM 115KV <td>222 275 172 6 6 6 7 7 5 5 6 7 7 5 5 7 7 7 8 3 0 2 4 4 8 8 16 6 3 3 9 7 8 3 0 2 4 4 8 8 16 6 3 3 9 3 0 2 4 4 8 5 7 7 5 5 7 7 7 5 5 7 7 7 5 5 7 7 7 5 5 7 7 7 5 5 7 7 7 5 5 7 7 7 5 5 7 7 7 5 5 7 7 7 5 5 7 7 7 5 5 7 7 7 5 5 7 7 7 5 5 7 7 7 5 5 7 7 7 5 5 7 7 7 5 5 7 7 7 5 5 7 7 7 5 7 7 7 5 7 7 7 5 7 7 7 5 7 7 7 5 7 7 7 5 7 7 7 5 7 7 7 5 7 7 7 5 7 7 7 5 7 7 7 5 7 7 7 5 7 7 7 5 7 7 7 5 7 7 7 5 7 7 7 5 7 7 7 5 3 0024 4 7 7 7 9 3 0024 4 7 7 7 9 3 0024 4 7 7 7 7 9 3 0024 4 7 7 7 7 9 3 0024 4 7 7 7 7 9 3 0024 4 7 7 7 7 7 9 3 0024 4 7 7 7 7 7 9 3 0024 4 7 7 7 7 7 7 9 3 0024 4 7 7 7 7 7 7 7 7 7 9 3 0024 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7</td> <td>0.0003 SPS 0.00013 SPS 0.00013 SPS 0.00013 SPS 0.00021 SPS 0.00021 SPS 0.00027 SPS 0.00012 SPS 0.00006 SPS 0.016155 SPS 0.016452 SPS 0.016452 SPS 0.016452 SPS 0.016452 SPS 0.016452 SPS 0.016452 SPS 0.016455 SPS 0.016155 SPS 0.016155 SPS 0.016155 SPS 0.016155 SPS 0.016155 SPS 0.016155 SPS 0.016155 SPS 0.016155 AEPW 0.016155 AEPW 0.016155 AEPW</td> <td>MUSTANG 115KV           MUSTANG 200KV           COMANCHE 200KV           COMANCHE 200KV</td> <td><math display="block">\begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td>	222 275 172 6 6 6 7 7 5 5 6 7 7 5 5 7 7 7 8 3 0 2 4 4 8 8 16 6 3 3 9 7 8 3 0 2 4 4 8 8 16 6 3 3 9 3 0 2 4 4 8 5 7 7 5 5 7 7 7 5 5 7 7 7 5 5 7 7 7 5 5 7 7 7 5 5 7 7 7 5 5 7 7 7 5 5 7 7 7 5 5 7 7 7 5 5 7 7 7 5 5 7 7 7 5 5 7 7 7 5 5 7 7 7 5 5 7 7 7 5 5 7 7 7 5 5 7 7 7 5 5 7 7 7 5 7 7 7 5 7 7 7 5 7 7 7 5 7 7 7 5 7 7 7 5 7 7 7 5 7 7 7 5 7 7 7 5 7 7 7 5 7 7 7 5 7 7 7 5 7 7 7 5 7 7 7 5 7 7 7 5 7 7 7 5 7 7 7 5 3 0024 4 7 7 7 9 3 0024 4 7 7 7 9 3 0024 4 7 7 7 7 9 3 0024 4 7 7 7 7 9 3 0024 4 7 7 7 7 9 3 0024 4 7 7 7 7 7 9 3 0024 4 7 7 7 7 7 9 3 0024 4 7 7 7 7 7 7 9 3 0024 4 7 7 7 7 7 7 7 7 7 9 3 0024 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	0.0003 SPS 0.00013 SPS 0.00013 SPS 0.00013 SPS 0.00021 SPS 0.00021 SPS 0.00027 SPS 0.00012 SPS 0.00006 SPS 0.016155 SPS 0.016452 SPS 0.016452 SPS 0.016452 SPS 0.016452 SPS 0.016452 SPS 0.016452 SPS 0.016455 SPS 0.016155 SPS 0.016155 SPS 0.016155 SPS 0.016155 SPS 0.016155 SPS 0.016155 SPS 0.016155 SPS 0.016155 AEPW 0.016155 AEPW 0.016155 AEPW	MUSTANG 115KV           MUSTANG 200KV           COMANCHE 200KV           COMANCHE 200KV	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
SPS           WEPL           AEPW           SPS           WEPL           AEPW           SPS           SPS           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           SPS	RUSSELL 115KV'           RVRSIDE0138 138KV           SIDROCH 69KV'           SOUTH ODDGE 115KV'           SOUTH DODGE 115KV           SOUTH DODGE 115KV           SOUTHWETERN STATION 138KV           TULUK 230KV           TULUK 230KV           TULUKARRI 115KV           TULS POWER STATION 138KV           TULS POWER STATION 69KV           WELEH 348KV'           WILKES 138KV'           CUNNINGHAM 115KV           CUNNINGHAM 115KV           CUNNINGHAM 115KV           CUNNINGHAM 115KV           CARLSBAD 69KV           CARLSBAD 69KV           CARLSBAD 69KV           CUNNINGHAM 115KV           CUNNINGHAM 1	22 27 7 7 6 6 6 1 6 1 7 7 5 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	0.0003 SPS 0.00013 SPS 0.00013 SPS 0.00021 SPS 0.00021 SPS 0.00021 SPS 0.00021 SPS 0.00027 SPS 0.00027 SPS 0.00006 SPS 0.00006 SPS 0.000006 SPS 0.000006 SPS 0.000006 SPS 0.000006 SPS 0.000006 SPS 0.000006 SPS 0.000006 SPS 0.000005 SPS 0.016155 SPS 0.016452 SPS 0.016455 SPS 0.016455 SPS 0.016155 SPS 0.016155 SPS	MUSTANG 115KV           MUSTANG 105KV           MUSTANG 105KV           MUSTANG 105KV           MUSTANG 230KV           MUSTANG 230KV           MUSTANG 230KV           MUSTANG 230KV           MUSTANG 230KV           MUSTANG 10.230KV           MUSTANG 230KV           MUSTANG 230KV           MUSTANG 10.230KV           MUSTANG 10.230KV           MUSTANG 10.230KV           MUSTANG 10.230KV           TOLK 230KV           COMANCHE 15	300         0.42994         0.42964         8           300         0.42994         0.42964         8           300         0.42994         0.42964         8           300         0.42994         0.42964         8           300         0.42994         0.42973         8           300         0.42984         0.42973         8           300         0.42984         0.42973         8           300         0.42984         0.42903         8           300         0.42984         0.42903         8           300         0.42984         0.43006         8           300         0.42994         0.433         8           300         0.42994         0.43         8           300         0.42994         0.433         8           300         0.42994         0.43         8           300         0.42994         0.433         8           300         0.42994         0.433         8           300         0.42994         0.433         8           300         0.42994         0.433         8           000         0.15058         0.31513         111
SPS           WEPL           AEPW           SPS           WEPL           AEPW           SPS           SPS	RUSSELL 115KV'           RVRSIDECIAS 138KV           SIDROCH 69KV'           SOUTH VESTER 115KV'           SOUTH DODGE 115KV'           SOUTH DODGE 115KV'           TOLK 230KV'           TOLK 230KV           TULSA POWER STATION 138KV'           TULSA POWER STATION 69KV'           WELEETKA 136KV'           WELETKA 136KV'           WULKES 345KV'           CUNNINGHAM 115KV'           CUNNINGHAM 115KV'           MADOX 115KV           MADOX 115KV'           CARLSBAD 69KV'           CARLSBAD 69KV           CARLSBAD 69KV           CUNNINGHAM 115KV'           MADOX 115KV           MADOX 115KV           CUNNINGHAM 115KV'           CUNNINGHAM 11	222 275 177 6 6 6 172 6 6 7 7 5 6 7 7 5 6 7 7 7 8 3 00244 9 3 0 2 3 0 2 3 0 2 4 9 3 0 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.0003 SPS 0.0003 SPS 0.00013 SPS 0.00013 SPS 0.00021 SPS 0.00021 SPS 0.00027 SPS 0.000375 SPS 0.000267 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00000 SPS 0.00000 SPS 0.00000 SPS 0.00000 SPS 0.016155 SPS 0.016155 SPS 0.016452 SPS 0.016452 SPS 0.016155	MUSTANG 115KV           MUSTANG 200KV           MUSTANG 200KV           MUSTANG 200KV           MUSTANG 200KV           MUSTANG 115KV           MUSTANG 10 200KV           MUSTANG 200KV           MUSTANG 200KV           MUSTANG 10 200KV           MUSTANG 200KV           MUSTANG 10 200KV           MUSTANG 10 200KV           MUSTANG 200KV           MUSTANG 200KV           MUSTANG 200KV           COGANCHE 10 200KV           COMANCHE 10 200KV           COMANCHE 200KV           CO	300         0.42984         -0.42864         8           300         0.42984         -0.42864         8           300         0.42984         -0.43         8           300         0.42984         -0.42864         8           300         0.42984         -0.42873         8           300         0.42984         -0.42973         8           300         0.42984         -0.42973         8           300         0.42984         -0.42984         8           300         0.42984         -0.42981         8           300         0.42984         -0.42861         8           300         0.42984         -0.42861         8           300         0.42984         -0.43         8           300         0.42984         -0.43         8           300         0.42984         -0.43         8           300         0.42984         -0.43         8           300         0.42984         -0.43         8           160         0.16058         -3151         11           50         0.16058         -03151         11           300         0.42984         -0.2738
SPS           WEPL           AEPW           SPS           WEPL           AEPW           SPS           SPS           AEPW           SPS           SPS	RUSSELL 115KV'           RVRSIDE0138 138KV           SIDROF 69KV'           SOUTH ODDGE 115KV'           SOUTH DODGE 115KV           SOUTH ODDGE 115KV           SOUTHWETERN STATION 138KV           TULUK 200KV           TULS POWER STATION 138KV           TULS POWER STATION 138KV           WELSH 38KV'           WILES 138KV'           WILKES 138KV'           OUNNINGHAM 115KV           CUNNINGHAM 115KV           CUNNINGHAM 115KV           CUNNINGHAM 115KV           CUNNINGHAM 115KV           CARLSBAD 69KV           CARLSBAD 69KV           CUNNINGHAM 115KV           CUNNINGH	22 27 7 9 7 7 9 6 6 11 6 6 12 7 9 6 6 7276 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7	0.0003 SPS 0.00013 SPS 0.00013 SPS 0.00021 SPS 0.00021 SPS 0.00021 SPS 0.00021 SPS 0.00027 SPS 0.00006 SPS 0.01655 SPS 0.016452 SPS 0.016452 SPS 0.016452 SPS 0.016452 SPS 0.016452 SPS 0.016455 SPS 0.016155 SPS 0.016155 SPS 0.016155 SPS 0.016155 SPS	MUSTANG 115KV           MUSTANG 120KV           MUSTANG 120KV           MUSTANG 20KV           COERTRIX 20KV           COMANCHE 15KV           COMANCHE 18KV           COMANCHE 18KV	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
SPS           WEPL           AEPW           SPS           WEPL           AEPW           SPS           SPS	RUSSELL 115KV'           RVRSIDECIAS 138KV           SIDROCH 69KV'           SOUTH VESTER 115KV'           SOUTH DODGE 115KV'           SOUTH DODGE 115KV'           TOLK 230KV'           TOLK 230KV           TULSA POWER STATION 138KV'           TULSA POWER STATION 69KV'           WELEETKA 136KV'           WELETKA 136KV'           WULKES 345KV'           CUNNINGHAM 115KV'           CUNNINGHAM 115KV'           MADOX 115KV           MADOX 115KV'           CARLSBAD 69KV'           CARLSBAD 69KV           CARLSBAD 69KV           CUNNINGHAM 115KV'           MADOX 115KV           MADOX 115KV           CUNNINGHAM 115KV'           CUNNINGHAM 11	222 275 177 6 6 6 172 6 6 7 7 5 6 7 7 5 6 7 7 7 8 3 00244 9 3 0 2 3 0 2 3 0 2 4 9 3 0 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.0003 SPS 0.00013 SPS 0.00013 SPS 0.00021 SPS 0.00021 SPS 0.00021 SPS 0.00021 SPS 0.00027 SPS 0.00006 SPS 0.01655 SPS 0.016452 SPS 0.016452 SPS 0.016452 SPS 0.016452 SPS 0.016452 SPS 0.016455 SPS 0.016155 SPS 0.016155 SPS 0.016155 SPS 0.016155 SPS	MUSTANG 115KV           MUSTANG 200KV           MUSTANG 200KV           MUSTANG 200KV           MUSTANG 200KV           MUSTANG 115KV           MUSTANG 10 200KV           MUSTANG 200KV           MUSTANG 200KV           MUSTANG 10 200KV           MUSTANG 200KV           MUSTANG 10 200KV           MUSTANG 10 200KV           MUSTANG 200KV           MUSTANG 200KV           MUSTANG 200KV           COGANCHE 10 200KV           COMANCHE 10 200KV           COMANCHE 200KV           CO	300         0.42984         -0.42864         8           300         0.42984         -0.42864         8           300         0.42984         -0.43         8           300         0.42984         -0.42864         8           300         0.42984         -0.42873         8           300         0.42984         -0.42973         8           300         0.42984         -0.42973         8           300         0.42984         -0.42984         8           300         0.42984         -0.42981         8           300         0.42984         -0.42861         8           300         0.42984         -0.42861         8           300         0.42984         -0.43         8           300         0.42984         -0.43         8           300         0.42984         -0.43         8           300         0.42984         -0.43         8           300         0.42984         -0.43         8           160         0.16058         -3151         11           50         0.16058         -03151         11           300         0.42984         -0.2738
SPS           WEPL           AEPW           SPS           WEPL           AEPW           SPS           SPS           AEPW           SPS           SPS	RUSSELL 115KV'           RVRSIDECI38 138KV           SIDROCH 69KV'           SOUTH CONCENTER 115KV'           SOUTH DODGE 115KV'           SOUTH CONCERNISTIC 138KV'           TOLK 230KV'           TULSA POWER STATION 138KV'           TULSA POWER STATION 68KV'           WELEETKA 136KV           WELETKA 136KV'           WULKES 138KV'           WULKES 345KV'           CUNNINGHAM 115KV'           CUNNINGHAM 115KV'           MADOX 115KV'           MADOX 115KV'           MADOX 115KV'           COUNNINGHAM 115KV'           COUNNINGHAM 115KV'           CUNNINGHAM 115KV'	222 275 275 6 6 6 7 7 5 6 7 7 7 7 7 7 7 7 7 7 7 7	0.0003 SPS 0.00013 SPS 0.00013 SPS 0.00013 SPS 0.00021 SPS 0.00021 SPS 0.00027 SPS 0.00027 SPS 0.000267 SPS 0.00006 SPS 0.00005 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00006 SPS 0.00005 SPS 0.0005 SPS 0	MUSTANG 115KV           MUSTANG 20KV           COGENTRIX 245KV           COGENTRIX 245KV           COMANCHE 138KV           COMANCHE 68KV           COMANCHE 68KV           COMANCHE 68KV	300         0.42984         0.42984         8           300         0.4294         0.42964         8           300         0.4294         0.4294         8           300         0.4294         0.4294         8           300         0.4294         0.4294         8           300         0.4294         0.4293         8           300         0.4294         0.4293         8           300         0.4294         0.4291         8           300         0.4294         0.4291         8           300         0.4294         0.4291         8           300         0.4294         0.4300         8           300         0.4294         0.43         8           300         0.4294         0.43         8           300         0.4294         0.43         8           300         0.4294         0.43         8           300         0.4294         0.43         8           300         0.4294         0.43         8           300         0.4294         0.43         8           300         0.4294         0.43         8           300
SPS           WEPL           AEPW           SPS           WEPL           AEPW           SPS           SPS           SPS           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           SPS           SPS	RUSSELL 115KV'           RVRSIDE0138 138KV           SIDROF 69KV'           SOUTH ODDGE 115KV'           SOUTH DODGE 115KV           SOUTH ODDGE 115KV           SOUTHWETERN STATION 138KV           TULUK 200KV           TULS POWER STATION 138KV           TULS POWER STATION 138KV           WELSH 385KV'           WILKES 138KV'           WILKES 138KV'           OUNNINGHAM 115KV           CUNNINGHAM 115KV	22 27 7 9 7 7 9 6 6 11 6 6 12 7 9 6 6 7276 7 16 7 16 7 16 7 16 7 16 7 16 7 16 7	0.0003 SPS 0.00013 SPS 0.00013 SPS 0.00012 SPS 0.00012 SPS 0.00071 SPS 0.00072 SPS 0.00075 SPS 0.00075 SPS 0.00006 SPS 0.000005 SPS 0.016452 SPS 0.016455 SPS 0.016455 SPS 0.016155 AEPW 0.016155 AEPW 0.016155 AEPW 0.016155 AEPW 0.016155 AEPW 0.016155 AEPW 0.016155 AEPW 0.016155 AEPW 0.016155 AEPW	MUSTANG 115KV           MUSTANG 120KV           MUSTANG 120KV           MUSTANG 20KV           COERTRIX 20KV           COMANCHE 15KV           COMANCHE 18KV           COMANCHE 18KV	300         0.42994         0.42964         8           300         0.42994         0.42964         8           300         0.42994         0.42964         8           300         0.42994         0.42964         8           300         0.42994         0.42973         8           300         0.42994         0.42973         8           300         0.42994         0.42973         8           300         0.42994         0.42973         8           300         0.42994         0.42917         8           300         0.42994         0.43281         8           300         0.42994         0.43281         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.43         8           300         0.42994         0.43         8

 [SPS]
 [CUNNINGHAM 115KV]
 93.00244
 -0.16155/WEPL
 [GRAY COUNTY WIND FA

 Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.
 Factor = Source GSF - Sink GSF

 Redispatch Amount = Relief Amount / Factor
 Redispatch Amount - Relief Amount / Factor
 Image: Count Amount - Relief Amount / Factor

Limiting Facility: Direction: Line Outage: Flowgate:	Mustang-San Andr-Amerada Hess 115KV DENVER CITY INTERCHANGE N - MUSTANG STATION 115 To-From DENVER CITY INTERCHANGE S - MUSTANG STATION 115 51960519661519625196813407SP 6/107 - 10/107								
Season Flowgate Identified:	2007 Summer Peak								
Reservation	Relief Amount	Aggregate Relief Amount							
1162675	15.5	15.5	1						
				Sink					Aggregate
		Maximum		Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
SPS	CUNNINGHAM 115KV	48.38086	-0.16155	SPS	'MUSTANG 115KV'	300	0.42994		
	'MADOX 115KV'	75	-0.16452	SPS	'MUSTANG 115KV'	300	0.42994	-0.59446	
	'CARLSBAD 69KV'	18			'MUSTANG 115KV'	300	0.42994		
AEPW	'AEP-CT0113.8 161KV'	85	-0.00004	SPS	'MUSTANG 115KV'	300	0.42994	-0.42998	36
AEPW	'AEP-CT0213.8 161KV'	85	-0.00004	SPS	'MUSTANG 115KV'	300	0.42994	-0.42998	
AEPW	'AEP-CT0313.8 161KV'	85	-0.00004	SPS	'MUSTANG 115KV'	300	0.42994	-0.42998	
AEPW	'AEP-CT0413.8 161KV'	85	-0.00004	SPS	'MUSTANG 115KV'	300	0.42994	-0.42998	36
AEPW	'AEP-CT0513.8 161KV'	85	-0.00004		'MUSTANG 115KV'	300	0.42994		
AEPW	'AEP-CT0613.8 161KV'	85			'MUSTANG 115KV'	300	0.42994	-0.42998	
AEPW	'AH-CC_C118.0 138KV'	150			'MUSTANG 115KV'	300	0.42994		
AEPW	'AH-CC_C218.0 138KV'	150	-0.00005		'MUSTANG 115KV'	300	0.42994	-0.42999	36
	'AH-CC_ST18.0 138KV'	250			'MUSTANG 115KV'	300	0.42994		
AEPW	'ARSENAL HILL 69KV'	99			'MUSTANG 115KV'	300	0.42994	-0.42999	
	'BELOIT 115KV'	16.6			'MUSTANG 115KV'	300	0.42994		
	'CIMARRON RIVER 115KV'	32.17398			'MUSTANG 115KV'	300	0.42994		
	'COGENTRIX 345KV'	594	-0.00006		'MUSTANG 115KV'	300	0.42994	-0.43	
	'EASTMAN 138KV'	130.01	-0.00006		'MUSTANG 115KV'	300	0.42994		
AEPW	'FITZHUGH 161KV'	95.00001	-0.00004	SPS	'MUSTANG 115KV'	300	0.42994	-0.42998	36

[			1			
AEPW	'FULTON 115KV'	32.99999		'MUSTANG 115KV'	300 0.42994 -0.43	36
SUNC	'GARDEN CITY 115KV'	127.7661		'MUSTANG 115KV'	300 0.42994 -0.42932	36
SUNC	'GARDEN CITY 69KV'	13	0.00062 SPS	'MUSTANG 115KV'	300 0.42994 -0.42932	36
WEPL	'HARPER 138KV'	17.21	0.00013 SPS	'MUSTANG 115KV'	300 0.42994 -0.42981	36
AEPW	'HEMPCOAL24.0 138KV'	608	-0.00007 SPS	'MUSTANG 115KV'	300 0.42994 -0.43001	36
SUNC	'HOLCOMB 115KV'	25.7312	0.00063 SPS	'MUSTANG 115KV'	300 0.42994 -0.42931	36
AEPW	'KIOWA 345KV'	1348	-0.00013 SPS	'MUSTANG 115KV'	300 0.42994 -0.43007	36
AEPW	'KNOXLEE 138KV'	259	-0.00006 SPS	'MUSTANG 115KV'	300 0.42994 -0.43	36
AEPW	'L&D13 69KV'	13	-0.00004 SPS	'MUSTANG 115KV'	300 0.42994 -0.42998	36
AEPW	'LEBROCK 345KV'	182	-0.00006 SPS	'MUSTANG 115KV'	300 0.42994 -0.43	36
AEPW	LIEBERMAN 138KV	154		'MUSTANG 115KV'	300 0.42994 -0.43	36
AEPW	LONESTAR POWER PLANT 69KV	50		'MUSTANG 115KV'	300 0.42994 -0.43	36
SPS	'LP-HOLL2 69KV'	132		'MUSTANG 115KV'	300 0.42994 -0.43237	36
SPS	LP-MACK2 69KV	20		MUSTANG 115KV		36
AEPW	'MID-CONTINENT 138KV'	142.11		'MUSTANG 115KV'	300 0.42994 -0.42999	36
SPS	'NICHOLS 115KV'	66.00001		'MUSTANG 115KV'	300 0.42994 -0.42868	36
SPS	'NICHOLS 230KV'	97	0.0013 SPS	'MUSTANG 115KV'	300 0.42994 -0.42864	36
WEPL	'NORTH WEST GREAT BEND 115KV'	14.24	0.00035 SPS	'MUSTANG 115KV'	300 0.42994 -0.42959	36
AEPW	'OEC 345KV'	1628.03		'MUSTANG 115KV'	300 0.42994 -0.43	36
AEPW	'PIRKEY GENERATION 138KV'	40		'MUSTANG 115KV'	300 0.42994 -0.43	36
SPS	'PLANTX 115KV'	48		'MUSTANG 115KV'	300 0.42994 -0.42774	36
AEPW	'RIVERSIDE STATION 138KV'	153	-0.00006 SPS	'MUSTANG 115KV'	300 0.42994 -0.43	36
SPS	'RIVERVIEW 69KV'	23	0.0013 SPS	'MUSTANG 115KV'	300 0.42994 -0.42864	36
WEPL	'RUSSELL 115KV'	27.9		'MUSTANG 115KV'	300 0.42994 -0.42964	36
AEPW	'RVRSIDEG13.8 138KV'	172		'MUSTANG 115KV'	300 0.42994 -0.43	36
AEPW	SOUTHWESTERN STATION 138KV	502		'MUSTANG 115KV'	300 0.42994 -0.43006	36
SPS	TOLK 230KV	52.88403		'MUSTANG 115KV'	300 0.42994 -0.42619	36
SPS	TUCUMCARI 115KV	15	-0.00267 SPS	'MUSTANG 115KV'	300 0.42994 -0.43261	36
AEPW	TULSA POWER STATION 138KV	125		'MUSTANG 115KV'	300 0.42994 -0.43	36
AEPW	TULSA POWER STATION 130KV	80		MUSTANG 115KV	300 0.42994 -0.43	36
AEPW	WELEETKA 138KV	72		MUSTANG 115KV	300 0.42994 -0.43003	36
AEPW	WELEE INA ISONV WELSH 345KV	54		MUSTANG 115KV	300 0.42994 -0.43003	36
AEPW						
	WILKES 138KV	196.4485		MUSTANG 115KV	300 0.42994 -0.43	36
SPS	'MADOX 115KV'	75		'MUSTANG 230KV'	310 0.15058 -0.3151	49
SPS	'MADOX 115KV'	75		'MUSTG5 118.0 230KV'	50 0.15058 -0.3151	49
SPS	CUNNINGHAM 115KV	48.38086	-0.16155 SPS	'MUSTANG 230KV'	310 0.15058 -0.31213	50
SPS	CUNNINGHAM 115KV	48.38086		'MUSTG5 118.0 230KV'	50 0.15058 -0.31213	50
SPS	'MADOX 115KV'	75	-0.16452 SPS	'PLANTX 230KV'	189 0.00438 -0.1689	92
SPS	'MADOX 115KV'	75		'TOLK 230KV'	1027.116 0.00375 -0.16827	92
SPS	CUNNINGHAM 115KV	48.38086	-0.16155 SPS	'PLANTX 230KV'	189 0.00438 -0.16593	93
SPS	'MADOX 115KV'	75	-0.16452 SPS	'BLACKHAWK 115KV'	220 0.0013 -0.16582	93
SPS	'MADOX 115KV'	75		'HARRINGTON 230KV'	1066 0.00132 -0.16584	93
SPS	'MADOX 115KV'	75	-0.16452 SPS	'MOORE COUNTY 115KV'	48 0.00138 -0.1659	93
SPS	'MADOX 115KV'	75		'NICHOLS 115KV'	147 0.00126 -0.16578	93
SPS	'MADOX 115KV'	75		'NICHOLS 230KV'	147 0.0013 -0.16582	93
SPS	'MADOX 115KV'	75		'PLANTX 115KV'	205 0.0022 -0.16672	93
SPS	CUNNINGHAM 115KV	48.38086		TOLK 230KV	1027.116 0.00375 -0.1653	94
SPS	'MADOX 115KV'	40.00000	-0.16452 WEPL	A. M. MULLERGREN GENERATOR 115KV	63 0.00035 -0.16487	94
SPS	'MADOX 115KV'	75		CLIFTON 115KV		94
SPS	'MADOX 115KV'	75		COGENTRIX 345KV	65 0.00013 -0.16465 300 -0.00006 -0.16446	94
SPS						
SPS	MADOX 115KV MADOX 115KV	75		COMANCHE 138KV'	160 -0.00027 -0.16425 63 -0.00024 -0.16428	94 94
SPS	'MADOX 115KV'	75		CZ 69KV	39 0.00118 -0.1657	94
SPS	MADOX 115KV	75		'EASTMAN 138KV'	355 -0.00006 -0.16446	94
SPS	'MADOX 115KV'	75		'FLINT CREEK 161KV'	420 -0.00004 -0.16448	94
SPS	'MADOX 115KV'	75		'GARDEN CITY 115KV'	56.23386 0.00062 -0.16514	94
SPS	'MADOX 115KV'	75		'GRAY COUNTY WIND FARM 115KV'	36 0.00051 -0.16503	94
SPS	'MADOX 115KV'	75		'HOLCOMB 115KV'	268.2688 0.00063 -0.16515	94
SPS	'MADOX 115KV'	75		'JUDSON LARGE 115KV'	109.2783 0.0005 -0.16502	94
SPS	'MADOX 115KV'	75		'KNOXLEE 138KV'	164 -0.00006 -0.16446	94
SPS	'MADOX 115KV'	75		'LEBROCK 345KV'	515 -0.00006 -0.16446	94
SPS	'MADOX 115KV'	75		'LIEBERMAN 138KV'	73.99999 -0.00006 -0.16446	94
SPS	'MADOX 115KV'	75		'NORTHEASTERN STATION 138KV'	500 -0.00005 -0.16447	94
SPS	'MADOX 115KV'	75		'NORTHEASTERN STATION 345KV'	645 -0.00005 -0.16447	94
SPS	'MADOX 115KV'	75		'OEC 345KV'	519 -0.00006 -0.16446	94
SPS	'MADOX 115KV'	75		'PIRKEY GENERATION 138KV'	475 -0.00006 -0.16446	94
SPS	'MADOX 115KV'	75		'RIVERSIDE STATION 138KV'	569 -0.00006 -0.16446	94
SPS	'MADOX 115KV'	75		'SLEEPING BEAR 138KV'	80 0.00002 -0.16454	94
SPS	'MADOX 115KV'	75	-0.16452 AEPW	SOUTHWESTERN STATION 138KV	257 -0.00012 -0.1644	94
SPS	'MADOX 115KV'	75		TULSA POWER STATION 138KV'	169 -0.00006 -0.16446	94
SPS	'MADOX 115KV'	75		WEATHERFORD 34KV	148 0.00008 -0.1646	94
SPS	MADOX 115KV	75		WELEETKA 138KV	70 -0.00009 -0.16443	94
SPS	MADOX 115KV	75		WELSH 345KV	990 -0.00007 -0.16445	94
SPS	MADOX 115KV	75		WILKES 138KV	266.5515 -0.00006 -0.16446	94
SPS	MADOX 115KV MADOX 115KV	75		WILKES 138KV WILKES 345KV		94 94
SPS	CUNNINGHAM 115KV CUNNINGHAM 115KV	48.38086	-0.16155 SPS	BLACKHAWK 115KV	220 0.0013 -0.16285	95
SPS		48.38086	-0.16155 SPS	'CZ 69KV'	39 0.00118 -0.16273	95
SPS	CUNNINGHAM 115KV	48.38086	-0.16155 SPS	HARRINGTON 230KV	1066 0.00132 -0.16287	95
SPS	CUNNINGHAM 115KV	48.38086		MOORE COUNTY 115KV	48 0.00138 -0.16293	95
SPS	CUNNINGHAM 115KV	48.38086	-0.16155 SPS	NICHOLS 115KV	147 0.00126 -0.16281	95
SPS	CUNNINGHAM 115KV	48.38086	-0.16155 SPS	'NICHOLS 230KV'	147 0.0013 -0.16285	95
SPS	CUNNINGHAM 115KV	48.38086	-0.16155 SPS	'PLANTX 115KV'	205 0.0022 -0.16375	95
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 ISPS
 [CUNNINGHAM 115KV'
 48.38086
 -0.16155
 IPLANTX 115KV'

 Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified. Factor = Source GSF - Sink GSF
 Factor = Source GSF - Sink GSF

 Redispatch Amount = Relief Amount / Factor
 Factor =
 Source GSF - Sink GSF

Limiting Facility: Direction: Line Outage:	Mustang-San Andr-Amerada Hess 115KV DENVER CITY INTERCHANGE N - MUSTANG STATION 115 To->From DENVER CITY INTERCHANGE S - MUSTANG STATION 115 519605196615196251968134085P							
	Starting 2008 6/1 - 10/1 Until EOC							
Season Flowgate Identified:	2008 Summer Peak		-					
		Aggregate Relief						
Reservation		Amount						
1162675	12.2	12.2						
			Sink					Aggregate
		Maximum	Control		Maximum			Redispatch
	Source		GSF Area					Amount (MW)
SPS	CUNNINGHAM 115KV	9.911621	-0.16149 SPS	'MUSTANG 115KV'	300	0.43001	-0.5915	
SPS	'MADOX 115KV'	75		'MUSTANG 115KV'	300	0.43001	-0.59447	
SPS	'CARLSBAD 69KV'	18		'MUSTANG 115KV'	300	0.43001	-0.50648	3 24
AEPW	'AEP-CT0113.8 161KV'	85	-0.00004 SPS	'MUSTANG 115KV'	300	0.43001	-0.43005	
AEPW	'AEP-CT0213.8 161KV'	85	-0.00004 SPS	'MUSTANG 115KV'	300	0.43001	-0.43005	. 28
AEPW	'AEP-CT0313.8 161KV'	85		'MUSTANG 115KV'	300	0.43001	-0.43005	
AEPW	'AEP-CT0413.8 161KV'	85	-0.00004 SPS	'MUSTANG 115KV'	300	0.43001	-0.43005	28
AEPW	'AEP-CT0513.8 161KV'	85	-0.00004 SPS	'MUSTANG 115KV'	300	0.43001	-0.43005	28
AEPW	'AEP-CT0613.8 161KV'	85	-0.00004 SPS	'MUSTANG 115KV'	300	0.43001	-0.43005	28
AEPW	'AH-CC_C118.0 138KV'	150	-0.00005 SPS	'MUSTANG 115KV'	300	0.43001	-0.43006	28 6 28 6 28
AEPW	'AH-CC_C218.0 138KV'	150		'MUSTANG 115KV'	300	0.43001	-0.43006	28
AEPW	'AH-CC_ST18.0 138KV'	250	-0.00005 SPS	'MUSTANG 115KV'	300	0.43001	-0.43006	28
AEPW	'ARSENAL HILL 69KV'	99	-0.00005 SPS	'MUSTANG 115KV'	300	0.43001	-0.43006	28
WEPL	'BELOIT 115KV'	16.6	0.00017 SPS	'MUSTANG 115KV'	300	0.43001	-0.42984	28
WEPL	'CIMARRON RIVER 115KV'	29.50916	0.00057 SPS	'MUSTANG 115KV'	300	0.43001	-0.42944	
SUNC	CITY OF HUGOTON 69KV	10.17	0.00058 SPS	'MUSTANG 115KV'	300	0.43001	-0.42943	28
SUNC	CITY OF NORTON 115KV	10.56	0.00039 SPS	'MUSTANG 115KV'	300	0.43001	-0.42962	28
AEPW	COGENTRIX 345KV	594	-0.00006 SPS	'MUSTANG 115KV'	300	0.43001	-0.43007	8 28 2 28 7 28 7 28
AEPW	'EASTMAN 138KV'	130.01	-0.00006 SPS	'MUSTANG 115KV'	300	0.43001	-0.43007	28

	'GARDEN CITY_115KV'	400.0047	0.00061 SPS	MUSTANG 115KV	300	0.43001 -0.4294
SUNC SUNC	GARDEN CITY 115KV GARDEN CITY 34KV	126.8647 10.7	0.00061 SPS	MUSTANG 115KV MUSTANG 115KV	300	0.43001 -0.4294
SUNC	GARDEN CITY 69KV	10.7	0.00061 SPS	'MUSTANG 115KV'	300	0.43001 -0.4294
WEPL	'HARPER 138KV'	17.21	0.00013 SPS	'MUSTANG 115KV'	300	0.43001 -0.42988
AEPW	'HEMPCOAL24.0 138KV'	608	-0.00007 SPS	'MUSTANG 115KV'	300	0.43001 -0.43008
SUNC	'HOLCOMB 115KV'	24.10101	0.00062 SPS	'MUSTANG 115KV'	300	0.43001 -0.42939
AEPW	'KIOWA 345KV'	1348	-0.00013 SPS	'MUSTANG 115KV'	300	0.43001 -0.43014
AEPW	'KNOXLEE 138KV'	269.9988	-0.00006 SPS	'MUSTANG 115KV'	300	0.43001 -0.43007
AEPW	'L&D13 69KV'	13	-0.00004 SPS	'MUSTANG 115KV'	300	0.43001 -0.43005
AEPW	'LEBROCK 345KV'	232	-0.00006 SPS	'MUSTANG 115KV'	300	0.43001 -0.43007
AEPW	'LIEBERMAN 138KV'	154	-0.00005 SPS	'MUSTANG 115KV'	300	0.43001 -0.43006
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.00006 SPS	'MUSTANG 115KV'	300	0.43001 -0.43007
SPS	'LP-HOLL2 69KV'	132	-0.00232 SPS	'MUSTANG 115KV'	300	0.43001 -0.43233
SPS	'LP-MACK2 69KV'	20	-0.00241 SPS	'MUSTANG 115KV'	300	0.43001 -0.43242
AEPW	'MID-CONTINENT 138KV'	142.11	-0.00004 SPS	'MUSTANG 115KV'	300	0.43001 -0.43005
SPS	'NICHOLS 115KV'	66.00001	0.00125 SPS	'MUSTANG 115KV'	300	0.43001 -0.42876
SPS	'NICHOLS 230KV'	97	0.00129 SPS	'MUSTANG 115KV'	300	0.43001 -0.42872
WEPL	'NORTH WEST GREAT BEND 115KV'	14.24	0.00034 SPS	'MUSTANG 115KV'	300	0.43001 -0.42967
AEPW	'OEC 345KV'	1678.03	-0.00006 SPS	'MUSTANG 115KV'	300	0.43001 -0.43007
AEPW	'PIRKEY GENERATION 138KV'	25	-0.00006 SPS	'MUSTANG 115KV'	300	0.43001 -0.43007
AEPW	'RIVERSIDE STATION 138KV'	240	-0.00006 SPS	'MUSTANG 115KV'	300	0.43001 -0.43007
SPS	'RIVERVIEW 69KV'	23	0.00129 SPS	'MUSTANG 115KV'	300	0.43001 -0.42872
NEPL	'RUSSELL 115KV'	27.9	0.00029 SPS	'MUSTANG 115KV'	300	0.43001 -0.42972
AEPW	'RVRSIDEG13.8 138KV'	172	-0.00006 SPS	'MUSTANG 115KV'	300	0.43001 -0.43007
AEPW	'SOUTHWESTERN STATION 138KV'	391	-0.00013 SPS	'MUSTANG 115KV'	300	0.43001 -0.43014
SPS	TUCUMCARI 115KV	15	-0.00265 SPS	'MUSTANG 115KV'	300	0.43001 -0.43266
AEPW	TULSA POWER STATION 138KV	191	-0.00006 SPS	'MUSTANG 115KV'	300	0.43001 -0.43007
AEPW	TULSA POWER STATION 69KV	80	-0.00006 SPS	'MUSTANG 115KV'	300	0.43001 -0.43007
AEPW	WELEETKA 138KV	58	-0.00009 SPS	'MUSTANG 115KV'	300	0.43001 -0.4301
AEPW	WILKES 138KV	263.827	-0.00006 SPS	MUSTANG 115KV	300	0.43001 -0.43007
AEPW	WILKES 345KV	58	-0.00006 SPS	'MUSTANG 115KV'	300	0.43001 -0.43007
SPS	PLANTX 115KV	48	0.00218 SPS	MUSTANG 115KV	300	0.43001 -0.42783
SPS SPS	'TOLK 230KV' 'MADOX 115KV'	53.17621	0.00376 SPS -0.16446 SPS	'MUSTANG 115KV' 'MUSTANG 230KV'	300 310	0.43001 -0.42625 0.15065 -0.31511
SPS	MADOX 115KV MADOX 115KV	75	-0.16446 SPS -0.16446 SPS	'MUSTANG 230KV' 'MUSTG5 118.0 230KV'	310	0.15065 -0.31511 0.15065 -0.31511
SPS	CARLSBAD 69KV	18	-0.07647 SPS	MUSTANG 230KV	310	0.15065 -0.22712
SPS	CARLSBAD 69KV	18	-0.07647 SPS	MUSTANG 230KV 'MUSTG5 118.0 230KV'	50	0.15065 -0.22712
SPS	MADOX 115KV	75	-0.16446 SPS	PLANTX 230KV	189	0.0044 -0.16886
SPS	MADOX 115KV 'MADOX 115KV'	75	-0.16446 SPS	PLANTX 230KV PLANTX 115KV	205	0.00218 -0.16664
SPS	MADOX 115KV	75	-0.16446 SPS	TOLK 230KV	1026.824	0.00376 -0.16822
SPS	'MADOX 115KV'	75	-0.16446 WEPL	'A. M. MULLERGREN GENERATOR 115KV'	63	0.00034 -0.1648
SPS	MADOX 115KV	75	-0.16446 SPS	BLACKHAWK 115KV	220	0.00129 -0.16575
SPS	'MADOX 115KV'	75	-0.16446 WEPL	CLIFTON 115KV	65	0.000129 -0.16375
SPS	MADOX 115KV	75	-0.16446 WEPL -0.16446 AEPW	COGENTRIX 345KV	300	-0.00006 -0.1644
SPS	MADOX 115KV	75	-0.16446 AEPW	COMANCHE 138KV	160	-0.00026 -0.1642
SPS	MADOX 115KV	75	-0.16446 AEPW	COMANCHE 138KV	63	-0.00023 -0.16423
SPS	'MADOX 115KV'	75	-0.16446 SPS	CZ 69KV	39	0.00116 -0.16562
SPS	MADOX 115KV	75	-0.16446 AEPW	'EASTMAN 138KV'	355	-0.00006 -0.1644
SPS	MADOX 115KV	75	-0.16446 AEPW	'FITZHUGH 161KV'	126	-0.00004 -0.16442
SPS	'MADOX 115KV'	75	-0.16446 AEPW	'FLINT CREEK 161KV'	428	-0.00004 -0.16442
SPS	'MADOX 115KV'	75	-0.16446 AEPW	'FULTON 115KV'	24.99999	-0.00006 -0.1644
SPS	'MADOX 115KV'	75	-0.16446 SUNC	'GARDEN CITY 115KV'	57.13528	0.00061 -0.16507
SPS	'MADOX 115KV'	75	-0.16446 WEPL	'GRAY COUNTY WIND FARM 115KV'	36	0.00049 -0.16495
SPS	'MADOX 115KV'	75	-0.16446 SPS	'HARRINGTON 230KV'	1066	0.00131 -0.16577
SPS	'MADOX 115KV'	75	-0.16446 SUNC	HOLCOMB 115KV	269,899	0.00062 -0.16508
SPS	'MADOX 115KV'	75	-0.16446 WEPL	JUDSON LARGE 115KV	109.7643	0.00049 -0.16495
SPS	MADOX 115KV	75	-0.16446 AEPW	KNOXLEE 138KV	153.0012	-0.00006 -0.1644
SPS	'MADOX 115KV'	75	-0.16446 AEPW	LEBROCK 345KV	465	-0.00006 -0.1644
SPS	'MADOX 115KV'	75	-0.16446 AEPW	'LIEBERMAN 138KV'	73.99999	-0.00005 -0.16441
SPS	'MADOX 115KV'	75	-0.16446 SPS	'MOORE COUNTY 115KV'	48	0.00136 -0.16582
SPS	'MADOX 115KV'	75	-0.16446 SPS	'NICHOLS 115KV'	147	0.00125 -0.16571
SPS	'MADOX 115KV'	75	-0.16446 SPS	'NICHOLS 230KV'	147	0.00129 -0.16575
SPS	'MADOX 115KV'	75	-0.16446 AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00005 -0.16441
PS	'MADOX 115KV'	75	-0.16446 AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00005 -0.16441
SPS	'MADOX 115KV'	75	-0.16446 AEPW	'OEC 345KV'	469	-0.00006 -0.1644
SPS	'MADOX 115KV'	75	-0.16446 AEPW	'PIRKEY GENERATION 138KV'	490	-0.00006 -0.1644
SPS	'MADOX 115KV'	75	-0.16446 AEPW	'RIVERSIDE STATION 138KV'	482	-0.00006 -0.1644
	'MADOX 115KV'	75	-0.16446 AEPW	'SLEEPING BEAR 138KV'	80	0.00001 -0.16447
			-0.16446 AEPW	'SOUTHWESTERN STATION 138KV'	368	-0.00013 -0.16433
SPS	'MADOX 115KV'	75			103	-0.00006 -0.1644
SPS SPS	'MADOX 115KV' 'MADOX 115KV'	75	-0.16446 AEPW	'TULSA POWER STATION 138KV'		
SPS SPS SPS	MADOX 115KV MADOX 115KV MADOX 115KV	75 75 75	-0.16446 AEPW -0.16446 AEPW	'WEATHERFORD 34KV'	148	0.00007 -0.16453
SPS SPS SPS SPS	MADOX 115KV' MADOX 115KV' MADOX 115KV' MADOX 115KV'	75 75 75 75 75	-0.16446 AEPW -0.16446 AEPW -0.16446 AEPW	WEATHERFORD 34KV' WELEETKA 138KV'	148 84	0.00007 -0.16453 -0.00009 -0.16437
SPS SPS SPS SPS SPS SPS	'MADOX 115KV'           'MADOX 115KV'           MADOX 115KV'           'MADOX 115KV'           'MADOX 115KV'           'MADOX 115KV'	75 75 75 75 75 75	-0.16446 AEPW -0.16446 AEPW -0.16446 AEPW -0.16446 AEPW	WEATHERFORD 34KV' WELEETKA 138KV' WELSH 345KV'	148 84 1044	0.00007 -0.16453 -0.00009 -0.16437 -0.00007 -0.16439
SPS SPS SPS SPS SPS SPS	MADOX 115KV'           'MADOX 115KV'           'MADOX 115KV'           'MADOX 115KV'           'MADOX 115KV'           'MADOX 115KV'           'MADOX 115KV'	75 75 75 75 75 75 75 75	-0.16446 AEPW -0.16446 AEPW -0.16446 AEPW -0.16446 AEPW -0.16446 AEPW	WEATHERFORD 34KV' WELEETKA 138KV' WELSH 345KV' WILKES 138KV'	148 84 1044 199.173	0.00007 -0.16453 -0.00009 -0.16437 -0.00007 -0.16439 -0.00006 -0.1644
SPS SPS SPS SPS SPS SPS SPS SPS SPS	MAD0X 115KV'	75 75 75 75 75 75 75 75 75 75	-0.16446 AEPW -0.16446 AEPW -0.16446 AEPW -0.16446 AEPW -0.16446 AEPW -0.16446 AEPW	WEATHERFORD 34KV'           WELEFKA 138KV'           WELSH 345KV           WILKES 138KV'           WILKES 345KV	148 84 1044 199.173 253	0.00007 -0.16453 -0.00009 -0.16437 -0.00007 -0.16439 -0.00006 -0.1644 -0.00006 -0.1644
SPS SPS SPS SPS SPS SPS SPS SPS SPS	MADOX 115KV'           MADOX 115KV'           'MADOX 115KV'	75 75 75 75 75 75 75 75 75	-0.16446 AEPW -0.16446 AEPW -0.16446 AEPW -0.16446 AEPW -0.16446 AEPW -0.16446 AEPW -0.16446 AEPW -0.16446 SPS	WEATHERFORD 34KV'           WELETKA 138KV           WELSH 345KV'           WILKES 138KV           WILKES 345KV'           JONES 230KV'	148 84 1044 199.173 253 486	0.00007 -0.16453 -0.00009 -0.16437 -0.00007 -0.16439 -0.00006 -0.1644 -0.00006 -0.1644 -0.00212 -0.16234
SPS SPS SPS SPS SPS SPS SPS SPS SPS SPS	MAD0X 115KV	75 75 75 75 75 75 75 75 75 75	-0.16446 AEPW -0.16446 AEPW -0.16446 AEPW -0.16446 AEPW -0.16446 AEPW -0.16446 AEPW -0.16446 SPS -0.16446 SPS	WEATHERFORD 34KV           WELEETKA 138KV           WELESH 345KV           WILKES 138KV           WILKES 345KV           UJONES 230KV           LD-MACK2 69KV	148 84 1044 199.173 253 486 60	0.00007 -0.16433 -0.00009 -0.16437 -0.00007 -0.16439 -0.00006 -0.1644 -0.00006 -0.1644 -0.00212 -0.16234 -0.00241 -0.16205
SPS SPS SPS SPS SPS SPS SPS SPS SPS SPS	MADOX 115KV	75 75 75 75 75 75 75 75 75 75 75 132	-0.16446 AEPW -0.16446 AEPW -0.16446 AEPW -0.16446 AEPW -0.16446 AEPW -0.16446 AEPW -0.16446 AEPW -0.16446 SPS -0.16446 SPS -0.16446 SPS	WEATHERFORD 34KV'           WELEETKA 138KV'           WELESH 345KV'           WILKES 138KV'           WILKES 345KV'           JONES 230KV'           JONES 230KV'           LP-MACK2 69KV'           MUSTANG 230KV	148 84 1044 199.173 253 486 60 310	0.00007 -0.16433 -0.00009 -0.16437 -0.00007 -0.16439 -0.00006 -0.1644 -0.00006 -0.1644 -0.00212 -0.16234 -0.00241 -0.16205 -0.15065 -0.15297
SPS SPS SPS SPS SPS SPS SPS SPS SPS SPS	MAD0X 115KV           LP-HOLIZ 69KV	75 76 75 75 75 75 75 75 75 75 132 132	-0.16446 AEPW -0.16446 AEPW -0.16446 AEPW -0.16446 AEPW -0.16446 AEPW -0.16446 AEPW -0.16446 AEPW -0.16446 SPS -0.16446 SPS -0.00232 SPS -0.00232 SPS	WEATHERFORD 34KV           WELEETKA 138KV           WELESH 345KV           WILKES 138KV           WILKES 345KV           UONES 230KV           UONES 230KV           LP-MACK2 69KV           MUSTGS 118.0 230KV	148 84 1044 199.773 253 486 60 310 50	0.00007 -0.16433 -0.00009 -0.16437 -0.00007 -0.16439 -0.00006 -0.1644 -0.00006 -0.1644 -0.00212 -0.16234 -0.00221 -0.16234 -0.00221 -0.16205 -0.15005 -0.15297 -0.15005 -0.15297
SPS	MAD0X 115KV'           LP-HOLL2 69KV'           LP-HOLL2 69KV'           AEP-CT0113.8 161KV'	75 75 76 76 75 75 75 75 75 75 132 132 85	-0.16446 AEPW -0.16446 AEPW -0.16446 AEPW -0.16446 AEPW -0.16446 AEPW -0.16446 AEPW -0.16446 SPS -0.16446 SPS -0.16446 SPS -0.16446 SPS -0.00232 SPS -0.00023 SPS	WEATHERFORD 34KV           WELETKA 138KV           WELETKA 138KV           WELSH 345KV           WILKES 138KV           UNIKES 336KV           JONES 230KV           LP-MACK2 68KV           MUSTANG 230KV           MUSTANG 230KV           MUSTANG 230KV	148 84 1044 199.173 253 486 60 310 50 310	0.00007         -0.16453           -0.00009         -0.16439           -0.00006         -0.16439           -0.00006         -0.1644           -0.00006         -0.1644           -0.00021         -0.16204           -0.00212         -0.16205           0.15665         -0.15297           0.15065         -0.15297           0.15065         -0.15297
SPS           SPS	MAD0X 115KV           LP-HOLIZ 69KV	75 76 76 75 75 75 75 75 75 75 75 132 132 132 85	-0.16446 AEPW -0.16446 AEPW -0.16446 AEPW -0.16446 AEPW -0.16446 AEPW -0.16446 AEPW -0.16446 SPS -0.16446 SPS -0.00232 SPS -0.000232 SPS -0.00004 SPS	WEATHERFORD 34KV           WELEFKA 138KV           WELESH 345KV           WILKES 138KV           WILKES 345KV           JONES 230KV           JONES 230KV           LP-MACK2 69KV           MUSTGS 118.0 230KV           MUSTGS 118.0 230KV           MUSTGS 118.0 230KV           MUSTGS 118.0 230KV	148 84 1044 199.773 253 486 60 310 50	0.00007 -0.16433 -0.00009 -0.16437 -0.00007 -0.16439 -0.00006 -0.1644 -0.00006 -0.1644 -0.00212 -0.16234 -0.00221 -0.16234 -0.00221 -0.16205 -0.15005 -0.15297 -0.15005 -0.15297

Uprate:         Mustang-San Andr-Amenda Hess 115KV           Limiting Facility:         DEVNER CITY INTERCHANGE N. MUSTANG STATION 115KV CKT 1           Direction:         To ->From           Line Outage:         Stybes 11902 51963 14007FA           Date Religispatch Needed:         Stating 2007 1011 12/L Unit EOC of Upgrade           Season Flowgate Identifie:         2007 Fail Peak           Reservation         Aggregate Relief Amount           1162/057         2.1           Source         Increment/MW)           SPS         CARLSBAD 69KV'           SPS         CARLSBAD 69KV'           SPS         CARLSBAD 69KV'           SPS         CUNNINGHAM 20KV           SPS         CUNNINGHAM 20KV           SPS         CUNNINGHAM 20KV           SPS         MADOXI 115KV           SPS         MADOXI 115KV           SPS         MADOXI 115KV           SPS         MUSTANG 115KV           SPS         MADOXI 115KV </th <th></th>										
Direction:         To->From           Line Outage:         DENVRE CITY INTERCHANGE 5 - MUSTANG STATION 115KV CKT 1           Flowgate:         518065198051980519805198051980519805198051980										
Line Outage: DENVER CITY INTERCHANGE S- MUSTANG STATION 115KV CKT 1 Flowgate: S19605196611407FA Date Redispatch Needed: Starting 2007 101 - 12/1 Until EOC of Upgrade Season Flowgate Identified: 2007 Fail Peak Reservation Relief Amount Amoun			5KV CKT 1							
Flowgate <sup>-</sup> 51960519961519625198614407FA           Date Redispath.Needed:         Staring 2007 101/1 - 1/21 Unit EOC of Upgrade           Season Flowgate Identified:         2007 Fail Peak           Reservation         Relief Amount           1162675         2.1           2.1         2.1           Source Control Area         Source           Maximum         Control           Maximum         Control           SPS         CARLSBAD 69KV           SPS         CUNNINGHAM 115KV           SPS         CUNNINGHAM 115KV           SPS         CUNNINGHAM 230KV           SPS         MUSTANG 115KV            KEPL         A. MULLERGREN GENERATOR 115KV           Bed         0.00030 SPS           MUSTANG 115KV         300           Adde         0.00005 SPS           MUSTANG 115KV         300           Adde         0.00005 SPS           MUSTANG 115KV										
Date Redispatch Needel:         Starting 2007 full red. 2007 Fall Peak           Season Flowgate Identified:         2007 Fall Peak           Reservation         Anguing and the information of the			5KV CKT 1							
Season Flowgate Identified: 2007 Fall Peak           Reservation         Relief Amount         Aggregate Relief Amount           1162675         2.1         2.1           Source         Control Area         Sink Sink         Control Area         Maximum Sink         Aggregate Control Area         Maximum Sink         Maximum Decrement(MW)         Aggregate SPS         Aggregate CARLSBAD 69KV         Relief Amount         Maximum Amount (MW)         Aggregate SPS         Maximum CUNNINGHAM 115KV         Sink Decrement(MW)         GSF         Factor         Annount (MW)           SPS         CUNNINGHAM 115KV         18         -0.07852 (SPS         MUSTANG 115KV         300         0.42995         -0.59149           SPS         CUNNINGHAM 230KV         306         -0.07301 (SPS         MUSTANG 115KV         300         0.42995         -0.59149           SPS         CUNNINGHAM 230KV         1694         -0.16452 (SPS         MUSTANG 115KV         300         0.42995         -0.59246           AEPW         AEP-CTOt913.8 161KV         209         -0.00004 (SPS         MUSTANG 115KV         300         0.42995         -0.42962           AEPW         AEP-CTOt913.8 161KV         85         -0.00004 (SPS         MUSTANG 115KV         300         0.42995         -0.4396										
Reservation         Aggregate Relief Amount           1162675         2.1         2.1           Surce         2.1         2.1           Source Control Area         Source         Source         Maximum         Control         Maximum         Control           SPS         CARUSADA D6N/V         116         -0.07652         SPS         Musimum         CSF         Factor         Anount (MW)           SPS         CUNNINGHAM 135KV         116         -0.07652         SPS         Musimum         0.42995         -0.50647           SPS         CUNNINGHAM 230KV         306         -0.42995         -0.51647         -           SPS         CUNNINGHAM 230KV         164         -0.16452         SPS         MuSTANG 115KV         300         0.42995         -0.59447           SPS         MADOX 115KV         164         -0.16452         SPS         MuSTANG 115KV         300         0.42936         -0.42962           AEPW         AEP-CTOTG1.3.8 161KV         20         -0.00004         SPS         MuSTANG 115KV         300         0.42936         -0.42989           AEPW         AEP-CTOTG1.3.8 161KV         86         -0.00004         SPS         MuSTANG 115KV         300         0.42996 <td< td=""><td></td><td>Starting 2007 10/1 - 12/1 Until EOC of Upgrade</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>		Starting 2007 10/1 - 12/1 Until EOC of Upgrade								
Relief Amount         Amount           1162875         2.1         2.1           Source Control Area         Source         Source         Source         Maximum         Control Area         Source         Maximum         Control Area         Source         Maximum         Control Area         Source         Sourc	Season Flowgate Identified:	2007 Fall Peak								
1162675         2.1         2.1           Source Control Area         Source         Control         Aggregate         Aggregate         Aggregate           SPS         CARLSBAD 56KV         161         -0.07652 [SPS         MUSTANG 115KV         300         0.42995         -0.50447           SPS         CUNNINGHAM 115KV         181         -0.07652 [SPS         MUSTANG 115KV         300         0.42995         -0.5047           SPS         CUNNINGHAM 125KV         186         -0.07651 [SPS         MUSTANG 115KV         300         0.42995         -0.50246           SPS         CUNNINGHAM 20KV         186         -0.0033 [SPS         MUSTANG 115KV         300         0.42995         -0.50246           WEPL         A.M. MULLERGRENERATOR 115KV         161452 [SPS         MUSTANG 115KV         300         0.42995         -0.42962           AEPW         AEP-CTOS13.8 161KV         20         -0.00041 SPS         MUSTANG 115KV         300         0.42995         -0.42996           AEPW         AEP-CTOS13.8 161KV         86         -0.00004 SPS         MUSTANG 115KV         300         0.42996         -0.42999           AEPW         AFC-CTOS13.8 161KV         86         -0.00004 SPS         MUSTANG 115KV         300         0.4			Aggregate Relief							
Source Control Area         Source         Maximum Increment(MW)         GSF         Area         Sink Control Area         Maximum Sink         Decrement(MW)         GSF         Factor         Aggregate Redispatch Amount (MW)           SPS         CARLSBAD 69KV         18         -0.07652         SPS         MUSTANG 115KV         300         0.42995         -0.50647           SPS         CUNNINGHAM 115KV         18         -0.07652         SPS         MUSTANG 115KV         300         0.42995         -0.50447           SPS         CUNNINGHAM 230KV         306         -0.07301         SPS         MUSTANG 115KV         300         0.42995         -0.50447           SPS         MADOX 115KV         168.4         -0.16452         SPS         MUSTANG 115KV         300         0.42995         -0.42962           AEPW         AEP-CTO413.8         161KV         20         -0.00004         SPS         MUSTANG 115KV         300         0.42995         -0.42962           AEPW         AEP-CT0413.8         161KV         86         -0.00004         SPS         MUSTANG 115KV         300         0.42995         -0.4396           AEPW         AEP-CT0413.8         161KV         86         -0.00004         SPS         MUSTANG 115KV <t< td=""><td>Reservation</td><td>Relief Amount</td><td>Amount</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Reservation	Relief Amount	Amount							
Source Control Area         Maximum         GSF         Area         Maximum         GSF         Area         Maximum         GSF         Area         Area         Maximum         GSF         Area         Area         Area         Area         Area         Sink         Decrement(MW)         GSF         Area	1162675	2.1	2.1	1						
Source         Source         Increment(MW)         GSF         Area         Sink         Decrement(MW)         GSF         Fator         Area         Area         Area         Sink         Decrement(MW)         GSF         Fator         Area         Area         Sink         Decrement(MW)         GSF         Fator         Area					Sink					
SPS         CARLSBAD 69K/         1         0.07652 [SPS         MUSTANG 115K/         200         0.42995         0.50149           SPS         CUNNINGHAM 115K/         111         0.011514 [SPS         MUSTANG 115K/         300         0.42995         0.59149           SPS         CUNNINGHAM 230K/         306         -0.07301 [SPS         MUSTANG 115K/         300         0.42995         0.59149           SPS         MADOX 115K/         300         0.42995         0.59447         300         0.42995         0.59447           WEPL         A.M.MULLERGREN GENERATOR 115K/         51.81897         0.00033 [SPS         MUSTANG 115K/         300         0.42995         0.42995         0.42995         0.42996         0.42995         0.42996         0.42995         0.42996         0.42995         0.42996         0.42995         0.42996         0.42995         0.42996         0.42995         0.42996         0.43         0.42996         0.42996         0.43					Control					
SPS         CUNNINGHAM 115KV         181         -0.16154         SPS         MUSTANG 115KV         300         0.42995         -0.59149           SPS         CUNNINGHAM 130KV         306         -0.07301         SPS         MUSTANG 115KV         300         0.42995         -0.59149           SPS         MADOX 115KV         169.4         -0.16452         SPS         MUSTANG 115KV         300         0.42995         -0.59447           WEPL         A.M. MULLERGREN GENERATOR 115KV         51.61897         0.00033         SPS         MUSTANG 115KV         300         0.42995         -0.42996           AEPW         AEP-CT0413.8 161KV         20         -0.00004         SPS         MUSTANG 115KV         300         0.42995         -0.42999           AEPW         AEP-CT04513.8 161KV         88         -0.00004         SPS         MUSTANG 115KV         300         0.42995         -0.4399           AEPW         AEP-CT0613.8 161KV         88         -0.00005         SPS         MUSTANG 115KV         300         0.42995         -0.4399           AEPW         AH-CC C118.0 138KV         150         -0.00005         SPS         MUSTANG 115KV         300         0.42995         -0.43           AEPW         AH-CC C2118.0 138KV			Increment(MW)							Amount (MW)
SPS         CUNNIGHAM 230KV         306         -0.0730         SPS         MUSTANG 115KV         300         0.42995         -0.5296           SPS         INADOX 115KV         169.4         -0.16452         SPS         MUSTANG 115KV         300         0.42995         -0.52947           WEPL         A.M. MULLERGREN GENERATOR 115KV         51.81897         0.0003         SPS         MUSTANG 115KV         300         0.42995         -0.42895           AEPW         AEP-CT0413.8 161KV         280         -0.42996         -0.42896           AEPW         AEP-CT0513.8 161KV         286         -0.00004         SPS         MUSTANG 115KV         300         0.42995         -0.42896           AEPW         AEP-CT0513.8 161KV         286         -0.00004         SPS         MUSTANG 115KV         300         0.42995         -0.42996           AEPW         AEP-CC0513.8 161KV         286         -0.00005         SPS         MUSTANG 115KV         300         0.42995         -0.42996           AEPW         AH-CC C118.0 138KV         150         -0.00005         SPS         MUSTANG 115KV         300         0.42995         -0.43           AEPW         AH-CC S118.0 138KV         250         -0.00005         SPS         MUSTANG 1		'CARLSBAD 69KV'	18			'MUSTANG 115KV'	300	0.42995	-0.50647	4
SPS         INADOX 115KV         169.4         -0.16452         SPS         INUSTANG 115KV         300         0.42995         -0.5947           WEPL         A. M. MULLERGEN GENERATOR 115KV         51.81897         0.00033         SPS         IMUSTANG 115KV         300         0.42995         0.43         0.42995         0.43         0.42995         0.43         0.42995         0.43         0.42995         0.43         0.42995         0.43         0.		CUNNINGHAM 115KV	181				300	0.42995		4
WEPL         Å. M. MULLERGREN GENERATOR 115KV         51.1897         0.00033         SPs         MUSTANG 115KV         300         0.42995         -0.42995         -0.42995         -0.42995         -0.42995         -0.42995         -0.42995         -0.42995         -0.42995         -0.42995         -0.42995         -0.42999         -0.42995         -0.42999         -0.42995         -0.42999         -0.42999         -0.42995         -0.42999         -0.42995         -0.42999         -0.42995         -0.42999         -0.42995         -0.42999         -0.42995         -0.42999         -0.42995         -0.43 <td>SPS</td> <td>CUNNINGHAM 230KV</td> <td>306</td> <td>-0.07301</td> <td>SPS</td> <td>'MUSTANG 115KV'</td> <td>300</td> <td>0.42995</td> <td>-0.50296</td> <td>4</td>	SPS	CUNNINGHAM 230KV	306	-0.07301	SPS	'MUSTANG 115KV'	300	0.42995	-0.50296	4
AEPW         AEP-CT0413.8 161KV'         20         -0.0004[SPS         MUSTANG 115KV'         300         0.42995         -0.42999           AEPW         AEP-CT0513.8 161KV'         85         -0.00004[SPS         MUSTANG 115KV'         300         0.42995         -0.42999           AEPW         AEP-CT0513.8 161KV'         85         -0.00004[SPS         MUSTANG 115KV'         300         0.42995         -0.42999           AEPW         AH-CC C118.0 138KV'         150         -0.00005[SPS         MUSTANG 115KV'         300         0.42995         -0.43           AEPW         AH-CC C218.0 138KV'         150         -0.00005[SPS         MUSTANG 115KV'         300         0.42995         -0.43           AEPW         AH-CC C218.0 138KV'         250         -0.00005[SPS         MUSTANG 115KV'         300         0.42995         -0.43           AEPW         AH-CC C218.0 138KV'         250         -0.00005[SPS         MUSTANG 115KV'         300         0.42995         -0.43           AEPW         AH-CC C218.0 138KV'         101         -0.00005[SPS         MUSTANG 115KV'         300         0.42995         -0.43           WEPL         BELOT 115KV         72         0.00005[SPS         MUSTANG 115KV'         300         0.42995			169.4	-0.16452	SPS		300	0.42995		4
IAEPw         IAEPxCT0613.8 161KV         985         -0.0004         PSF         MUSTANG 115KV         300         0.42995         -0.42999           AEPW         IAEPxCT0613.8 161KV         985         -0.0004         PSF         MUSTANG 115KV         300         0.42995         -0.42999           AEPW         IAH-CC         C1810         138KV         150         -0.0005         PSF         MUSTANG 115KV         300         0.42995         -0.42           AEPW         IAH-CC         C1810         138KV         150         -0.00005         PSF         MUSTANG 115KV         300         0.42995         -0.42           AEPW         IAH-CC         CST18.0         138KV         250         -0.00005         PSF         MUSTANG 115KV         300         0.42995         -0.43           AEPW         IAH-CC_ST18.0         138KV         250         -0.00005         PSF         MUSTANG 115KV         300         0.42995         -0.43           MEPU         ARSENAL HILL 69KV         100         -0.00005         PSF         MUSTANG 115KV         300         0.42995         -0.43           WEPL         BELOTI 115KV         16.6         0.00007         PSF         MUSTANG 115KV         300         0.42995 </td <td>WEPL</td> <td>'A. M. MULLERGREN GENERATOR 115KV'</td> <td>51.81897</td> <td>0.00033</td> <td>SPS</td> <td>'MUSTANG 115KV'</td> <td>300</td> <td>0.42995</td> <td>-0.42962</td> <td>5</td>	WEPL	'A. M. MULLERGREN GENERATOR 115KV'	51.81897	0.00033	SPS	'MUSTANG 115KV'	300	0.42995	-0.42962	5
AEPW         AEP-CT0613.8 161KV         985         -0.00004 [PR5         MUSTANG 115KV         300         0.42995         0.42995           AEPW         AH-CC C118.0 138KV         150         -0.00005 [PR5         MUSTANG 115KV         300         0.42995         -0.43           AEPW         AH-CC C218.0 138KV         150         -0.00005 [PR5         MUSTANG 115KV         300         0.42995         -0.43           AEPW         AH-CC C318.0 138KV         250         -0.00005 [PS         MUSTANG 115KV         300         0.42995         -0.43           AEPW         AH-CC C318.0 138KV         250         -0.00005 [PS         MUSTANG 115KV         300         0.42995         -0.43           MEPL         BELOT 115KV         110         -0.00005 [PS         MUSTANG 115KV         300         0.42995         -0.43           WEPL         BELOT 115KV         16.6         0.00017 [PS         MUSTANG 115KV         300         0.42995         -0.4298           SUNC         C1TY OF GODLAND 115KV         72         0.00056 [PS         MUSTANG 115KV         300         0.42995         -0.4298           SUNC         C1TY OF GODLAND 115KV         13.9         0.0048 [PS         MUSTANG 115KV         300         0.42995         -0.4298	AEPW	'AEP-CT0413.8 161KV'	20	-0.00004	SPS	'MUSTANG 115KV'	300	0.42995	-0.42999	5
AEPW         AH-CC_C118.0         138KV         150         -0.0005         SPS         MUSTANG         15KV         300         0.42995         -0.43           AEPW         AH-CC_C218.0         138KV         150         -0.0005         SPS         MUSTANG         15KV         300         0.42995         -0.43           AEPW         AH-CC_C218.0         138KV         250         -0.0005         SPS         MUSTANG         115KV         300         0.42995         -0.43           AEPW         ARSENAL HILL 69KV         110         -0.00005         SPS         MUSTANG         115KV         300         0.42995         -0.43           MEPL         BELOTI         115KV         16.6         0.00017         SPS         MUSTANG         115KV         300         0.42995         -0.4295           WEPL         CIMARGON RIVER 115KV         72         0.0056         SPS         MUSTANG 115KV         300         0.42995         -0.4297           SUNC         CITY OF FUDLAND 115KV         72         0.0056         SPS         MUSTANG 115KV         300         0.42995         -0.4294           SUNC         CITY OF FUDCIAND 115KV         13.8         0.00048         SPS         MUSTANG 115KV         3		'AEP-CT0513.8 161KV'	85			'MUSTANG 115KV'		0.42995		5
AEPW         /AH-CC_C218.0 138KV         150         -0.00005         SPS         MUSTANG 115KV         300         0.42995         -0.43           AEPW         AH-CC_S18.0 138KV         250         -0.00005         SPS         MUSTANG 115KV         300         0.42995         -0.43           AEPW         ARSENAL HILL 69KV         110         -0.00005         SPS         MUSTANG 115KV         300         0.42995         -0.43           WEPL         BELOT 115KV         16.6         0.00017         SPS         MUSTANG 115KV         300         0.42995         -0.42985           SUNC         CITY OF GOODLAND 115KV         72         0.00056         SPS         MUSTANG 115KV         300         0.42995         -0.4298           SUNC         CITY OF GOODLAND 115KV         72         0.00048         SPS         MUSTANG 115KV         300         0.42995         -0.42948           SUNC         CITY OF GOODLAND 115KV         72         0.00048         SPS         MUSTANG 115KV         300         0.42995         -0.42947           SUNC         CITY OF FURGOTON 69KV         71.07         0.00047         SPS         MUSTANG 115KV         300         0.42995         -0.42947           SUNC         CITY OF FURGOTON 69KV <td>AEPW</td> <td>'AEP-CT0613.8 161KV'</td> <td>85</td> <td>-0.00004</td> <td>SPS</td> <td>'MUSTANG 115KV'</td> <td>300</td> <td>0.42995</td> <td>-0.42999</td> <td>5</td>	AEPW	'AEP-CT0613.8 161KV'	85	-0.00004	SPS	'MUSTANG 115KV'	300	0.42995	-0.42999	5
AEPW         AH-CC_ST18.0 138KV         220         -0.0005         SPS         MUSTANG 115KV         300         0.42995         0.43           AEPW         ARSENAL HILL 69KV         110         -0.0005         SPS         MUSTANG 115KV         300         0.42995         -0.43           WEPL         BELOIT 115KV         16.6         0.00015         SPS         MUSTANG 115KV         300         0.42995         -0.42976           WEPL         CIMARON RIVER 115KV         16.6         0.00017         SPS         MUSTANG 115KV         300         0.42995         -0.42976           SUNC         CITY OF GODLAND 115KV         13.9         0.00048         SPS         MUSTANG 115KV         300         0.42995         -0.42939           SUNC         CITY OF FORCTON 15KV         13.9         0.00037         SPS         MUSTANG 115KV         300         0.42995         -0.42985           SUNC         CITY OF FORCTON 69KV         17.07         0.00057         SPS         MUSTANG 115KV         300         0.42995         -0.42985           SUNC         CITY OF FORCTON 15KV         17.07         0.00057         SPS         MUSTANG 115KV         300         0.42995         -0.42936           SUNC         CITY OF FORCTON 15KV<		'AH-CC_C118.0 138KV'	150				300	0.42995	-0.43	5
AEPW         ARSENAL HILL 69KV         110         -0.00005 [SPS         MUSTANG 115KV         300         0.42995         -0.43           WEPL         BELOT 115KV         16.6         0.00017 [SPS         MUSTANG 115KV         300         0.42996         -0.42978           WEPL         CIMARRON RIVER 115KV         72         0.00056 [SPS         MUSTANG 115KV         300         0.42995         -0.42978           SUNC         CITY OF GOODLAND 115KV         13.9         0.00048 [SPS         MUSTANG 115KV         300         0.42995         -0.42947           SUNC         CITY OF GOODLAND 115KV         13.9         0.00048 [SPS         MUSTANG 115KV         300         0.42995         -0.42947           SUNC         CITY OF HUGOTON 69KV         17.07         0.00057 [SPS         MUSTANG 115KV         300         0.42995         -0.42947           SUNC         CITY OF HUGOTON 69KV         17.07         0.00057 [SPS         MUSTANG 115KV         300         0.42995         -0.42938           SUNC         CITY OF LAKIN 115KV         4.25         0.00059 [SPS         MUSTANG 115KV         300         0.42995         -0.42936           SUNC         CITY OF LAKIN 115KV         4.26         0.00059 [SPS         MUSTANG 115KV         300	AEPW	'AH-CC_C218.0 138KV'	150			'MUSTANG 115KV'	300	0.42995	-0.43	5
WEPL         'BELOT 115KV'         16.6         0.00017 [SPS         MUSTANG 115KV'         300         0.42995         -0.4298           WEPL         CIMARDON INVER 115KV'         72         0.00056 [SPS         MUSTANG 115KV'         300         0.42995         -0.42936           SUNC         CITY OF GOODLAND 115KV'         13.9         0.00048 [SPS         MUSTANG 115KV'         300         0.42995         -0.42947           SUNC         CITY OF FULL CITY 115KV         6.1         0.00037 [SPS         MUSTANG 115KV'         300         0.42995         -0.42947           SUNC         CITY OF FULCOTON 69KV'         17.07         0.00037 [SPS         MUSTANG 115KV'         300         0.42995         -0.42936           SUNC         CITY OF FUGTON 69KV'         17.07         0.00057 [SPS         MUSTANG 115KV'         300         0.42995         -0.42936           SUNC         CITY OF FUGTON 15KV'         42.0         0.00057 [SPS         MUSTANG 115KV'         300         0.42995         -0.42936           SUNC         CITY OF FUGTON 15KV'         42.0         0.00057 [SPS         MUSTANG 115KV'         300         0.42995         -0.42936           SUNC         CITY OF FUGTON 115KV'         42.0         0.00058 [SPS         MUSTANG 115KV' <t< td=""><td>AEPW</td><td>'AH-CC_ST18.0 138KV'</td><td>250</td><td>-0.00005</td><td>SPS</td><td>'MUSTANG 115KV'</td><td>300</td><td>0.42995</td><td>-0.43</td><td>5</td></t<>	AEPW	'AH-CC_ST18.0 138KV'	250	-0.00005	SPS	'MUSTANG 115KV'	300	0.42995	-0.43	5
WEPL         CIMARRON RIVER 115KV'         72         0.00056         SPS         'MUSTANG 115KV'         300         0.42935         -0.42939           SUNC         CITY OF GOODLAND 115KV'         13.9         0.00048         SPS         'MUSTANG 115KV'         300         0.42935         -0.429347           SUNC         CITY OF FILLCTY         15KV'         6.1         0.00037         SPS         'MUSTANG 115KV'         300         0.42995         -0.42947           SUNC         CITY OF FILICUTY         15KV'         6.1         0.00037         SPS         'MUSTANG 115KV'         300         0.42995         -0.42986           SUNC         CITY OF FILICOTON 69KV'         17.07         0.00057         SPS         'MUSTANG 115KV'         300         0.42995         -0.42936           SUNC         CITY OF LAKIN 115KV'         4.25         0.00058         SPS         'MUSTANG 115KV'         300         0.42995         -0.42936           SUNC         CITY OF NOTON 115KV'         4.25         0.00058         SPS         'MUSTANG 115KV'         300         0.42995         -0.42936	AEPW	'ARSENAL HILL 69KV'	110			'MUSTANG 115KV'	300	0.42995	-0.43	5
SUNC         CITY OF GOODLAND 115KV         13.9         0.00048         SPS         MUSTANG 115KV         300         0.42995         -0.42947           SUNC         CITY OF HILL CITY 115KV         6.1         0.00037         SPS         MUSTANG 115KV         300         0.42995         -0.42958           SUNC         CITY OF HILGOTON 69KV         17.07         0.00057         SPS         MUSTANG 115KV         300         0.42995         -0.42958           SUNC         CITY OF HUGOTON 69KV         17.07         0.00057         SPS         MUSTANG 115KV         300         0.42995         -0.42936           SUNC         CITY OF FURGOTON 15KV         4.28         0.00059         SPS         MUSTANG 115KV         300         0.42995         -0.42936           SUNC         CITY OF FURGOTON 115KV         4.28         0.00059         SPS         MUSTANG 115KV         300         0.42995         -0.42936           SUNC         CITY OF NOTON 115KV         10.56         0.00038         SPS         MUSTANG 115KV         300         0.42995         -0.42936	WEPL	'BELOIT 115KV'	16.6	0.00017	SPS	'MUSTANG 115KV'	300	0.42995	-0.42978	5
SUNC         CITY OF HILL CITY 115KV         6.1         0.00037         SPS         'MUSTANG 115KV'         300         0.42995         -0.42958           SUNC         CITY OF HUGOTON 69KV'         17.07         0.00057         SPS         'MUSTANG 115KV'         300         0.42995         -0.42958           SUNC         'CITY OF LAKIN 115KV'         4.25         0.00059         SPS         'MUSTANG 115KV'         300         0.42995         -0.42938           SUNC         'CITY OF LAKIN 115KV'         4.25         0.00059         SPS         'MUSTANG 115KV'         300         0.42995         -0.42936           SUNC         'CITY OF NOTON 115KV'         10.56         0.00038         SPS         'MUSTANG 115KV'         300         0.42995         -0.42957	WEPL	'CIMARRON RIVER 115KV'	72	0.00056	SPS	'MUSTANG 115KV'	300	0.42995	-0.42939	5
SUNC         CITY OF HUGOTON 69KV         17.07         0.00057         SPS         MUSTANG 115KV         300         0.42995         -0.42938           SUNC         CITY OF LAKIN 115KV         4.25         0.00058         SPS         MUSTANG 115KV         300         0.42995         -0.42936           SUNC         CITY OF NOTON 115KV'         10.56         0.00038         SPS         MUSTANG 115KV'         300         0.42995         -0.42937		'CITY OF GOODLAND 115KV'	13.9	0.00048	SPS	'MUSTANG 115KV'	300	0.42995	-0.42947	5
SUNC         CITY OF LAKIN 115KV'         4.25         0.00059         SPS         'MUSTANG 115KV'         300         0.42995         -0.42936           SUNC         'CITY OF NORTON 115KV'         10.56         0.00038         SPS         'MUSTANG 115KV'         300         0.42995         -0.42936	SUNC	CITY OF HILL CITY 115KV	6.1	0.00037	SPS	'MUSTANG 115KV'	300	0.42995	-0.42958	5
SUNC CITY OF NORTON 115KV 10.56 0.00038 SPS MUSTANG 115KV 300 0.42995 0.42995		CITY OF HUGOTON 69KV	17.07			'MUSTANG 115KV'	300	0.42995	-0.42938	5
	SUNC	'CITY OF LAKIN 115KV'	4.25	0.00059	SPS	'MUSTANG 115KV'	300	0.42995	-0.42936	5
	SUNC	CITY OF NORTON 115KV	10.56	0.00038	SPS	'MUSTANG 115KV'	300	0.42995	-0.42957	5
300 0.42990 -0.42940	SUNC	CITY OF ST.FRANCIS 115KV	4.3	0.00047	SPS	'MUSTANG 115KV'	300	0.42995	-0.42948	5

Differ         Display         Display <thdisplay< th=""> <thdisplay< th=""> <thdi< th=""><th>WEPI</th><th>CLIETON 445KU</th><th>70</th><th>0.00040 CDC</th><th>MUSTANC MEMO</th><th>200 0 42005 0 42002</th></thdi<></thdisplay<></thdisplay<>	WEPI	CLIETON 445KU	70	0.00040 CDC	MUSTANC MEMO	200 0 42005 0 42002
BR         DE BW		CLIFTON 115KV			MUSTANG 115KV	300 0.42995 -0.42982 5 300 0.42995 -0.43001 5
ADV         Local         ADV         Table         ADV						
RPW         IPTICALLY SUM         Bit 0.0000 [27]         MCTIVAL TOY         MCTIVAL TOY         Bi	AFPW					
Apput         Funct (EEE, MP)         Bit 0         Constraints         Bit 0         Constraints           DNGC         SARDENDTY INV         101         CONSTRAINTS         DNG         DNG <td< td=""><td></td><td></td><td></td><td></td><td>MUSTANG 115KV</td><td></td></td<>					MUSTANG 115KV	
BATM         PLACEMENT HAV         Field         CONST         Description         Descriptio						
BACK         Decker (C)         THEY         144         Docs         BACK         MUTHAGE TRUE         BAC         Address         Addres         Addres         Addres				-0.00005 SPS	'MUSTANG 115KV'	
BAC         OWNER         BAC         BAC </td <td></td> <td></td> <td></td> <td></td> <td>'MUSTANG 115KV'</td> <td></td>					'MUSTANG 115KV'	
BAC         Condent of the Work         10         100000000         NUMERAD (1150)         100         0.00         0.00         0.0000000         0.00000000         0.00000000000000000000000000000000000					'MUSTANG 115KV'	
UPPN         OPERATION         0         0000382         NUMBER 1990         0.000382         NUMBER 1990         0.000382         0.0000382         NUMBER 1990         0.	SUNC	'GARDEN CITY 69KV'	13	0.0006 SPS	'MUSTANG 115KV'	300 0.42995 -0.42935 5
NUMBER         NUMBER<	WEPL		8	0.00013 SPS	'MUSTANG 115KV'	
Labyie         Host Total         Description         Description <th< td=""><td>WEPL</td><td>'GREENSBURG 115KV'</td><td>6.2</td><td>0.00038 SPS</td><td></td><td>300 0.42995 -0.42957 5</td></th<>	WEPL	'GREENSBURG 115KV'	6.2	0.00038 SPS		300 0.42995 -0.42957 5
Line         Instruction         Source         Sour	WEPL	'HARPER 138KV'	17.21	0.00013 SPS	'MUSTANG 115KV'	300 0.42995 -0.42982 5
SPA         Humbor Service         Space         Humbor Service         Space         Humbor Service         Space         <						
BNC         Def Son May         5.5         Doors Par         Mark 190/         Door Par         Door Par <thdoor par<="" th="">         Door Par         <thdo< td=""><td></td><td>'HOLCOMB 115KV'</td><td>26.60336</td><td>0.00061 SPS</td><td></td><td></td></thdo<></thdoor>		'HOLCOMB 115KV'	26.60336	0.00061 SPS		
BP         Delts 280°         14 (888         4020 BP         WESTMA 180°         380         4028         4028           AVW         4000 Librar         1000 Librar         1000 Librar         4000 Librar						
MRD.         LIDBOLLARGE '119V'         GRUESS         Console page         MUCTING '119V'         Jack         Jack <thjack< th=""> <thjack< th=""> <thjack< th=""></thjack<></thjack<></thjack<>						
Alery         NOVA SMAY         Table 1         Constrained and the state of the stat						
AEPW         NOTALE 138Y         485         4.000 BPS         MUST MA 156Y         380         0.4286         6.4391           AEW         LAST BAY         10         4.000 SPS         MUST MA 156Y         000         0.4286         0.409           AEW         LAST BAY         277         4.000 SPS         MUST MA 156Y         000         0.4286         0.409           AEW         LOMESTA POVER PLANT 66Y         0.200 SPS         MUST MA 156Y         0.00         0.4286         0.400           AEW         LOMESTA POVER PLANT 66Y         0.200 SPS         MUST MA 156Y         0.00         0.4286         0.4301           BP         LOMESTA POVER PLANT 66Y         10         4.000 SPS         MUST MA 156Y         0.00         0.4006				0.00048 SPS		
AEPW         LDD1 68V,         15         -0.0000 [PS]         NUETRIG 118V/         300         0.4288         -0.4288           AEPW         LDBLCX 38A/V         115         -0.0000 [PS]         NUETRIG 118V/         300         0.4288         -0.4288           AEPW         LDBLSTAR FOWER FLANT 58V/         150         -0.0000 [PS]         NUETRIG 118V/         300         0.4288         -0.4288           AEPW         LDBLSTAR FOWER FLANT 58V/         120         -0.0000 [PS]         NUETRIG 118V/         300         0.4288         -0.4288           AEPW         LDBLSTAR FOWER FLANT 58V/         121         -0.0000 [PS]         NUETRIG 118V/         300         0.4288         -0.4288           AEP         MDC CONTRY 118V/         421         -0.0001 [PS]         NUETRIG 118V/         300         0.4288         -0.4288           ASS         MDC CONTRY 118V/         421         -0.011 [PS]         NUETRIG 118V/         300         0.4288         -0.4288           ASS         MDC CONTREASTERS TSTON 38V/         421         -0.012 [PS]         NUETRIG 118V/         300         0.4288         -0.4288           ASS         MDC CONTREASTERS TSTON 38V/         418         -0.0000 [PS]         NUETRIG 118V/         300         -0.4288						
AFPW         LEBECK 346/7         116         -0.0000 [99]         MLETARG 118V/T         300         0.4298         -0.4001           AFW         LEBECK 346/7         1300 F DW 108V/T         22         -0.0000 [99]         MLETARG 118V/T         300         0.4298         -0.4001           SP         LPARD2 EBV/T         12         -0.0000 [99]         MLETARG 118V/T         300         0.4298         -0.4001           SP         LPARD2 EBV/T         12         -0.0000 [99]         MLETARG 118V/T         300         0.4298         -0.42998         -0.4298         -0.4298					'MUSTANG 115KV'	
AEPW         LIBERMAN LSKV         272         -0.0000 [PS         NUSTING 11KV         300         0.4286         0.4301           GPW         LOBETAR FORMER MARE DESV         30         0.4286         0.4301         300         0.4286         0.4301           SPS         LP-MACE DESV         12         -0.0000 [PS         NUSTING 11KV         300         0.4286         -0.4301           SPS         LP-MACE DESV         12         -0.0000 [PS         NUSTING 11KV         300         0.4286         -0.4301           SPS         NUSTING 11KV         12         -0.0000 [PS         NUSTING 11KV         300         0.4286         -0.4301           GPW         NUSCICS 1500V         21         0.0012 [PS         NUSTING 11KV         300         0.4286         -0.4302           SPS         NUSCICS 1500V         21         0.0012 [PS         NUSTING 11KV         300         0.4286         -0.4302           SPS         NUSCICS 1500V         21         0.0012 [PS         NUSTING 11KV         300         0.4286         -0.4302           SPM         NUSCICS 1500V         21         0.0012 [PS         NUSTING 11KV         300         0.4286         -0.4302           SPM         NUSCICS 1500V <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
Description         Logency         Sol         -0.0000 [PS]         NUSTING 118V/         300         0.0288         -0.0288				-0.00006 SPS	MUSTANG 115KV	
BYS         LP-BNN2 BWY         B         0.4002 BPS         MLETAGE 118V/         000 6.2008         0.4004 6.4004           BYS         LP-BLL DEWY         113 0.4008 (PS)         MLETAGE 118V/         030 6.4008 4.4034           AEPW         MOCONTENT 118W         114 0.4004 (PS)         MLETAGE 118V/         030 6.4008 4.4034           AEPW         MOCONTENT 118W         142 11 0.4004 (PS)         MLETAGE 118V/         030 6.4008 4.4034           AEPW         MOCONTENT 118V/         14 0.4002 (PS)         MLETAGE 118V/         030 6.4008 4.4034           AEPW         MOCHCAL 119V         12 0.4002 (PS)         MLETAGE 118V/         030 6.4008 4.4034           AEPW         NORTHEASTRUE STATION 198V/         141 0.4002 (PS)         MLETAGE 118V/         030 6.4008 4.4034           AEPW         NORTHEASTRUE STATION 198V/         143 0.40008 (PS)         MLETAGE 118V/         030 6.4008 4.4034           AEPW         NORTHEASTRUE STATION 198V/         143 0.40008 (PS)         MLETAGE 118V/         030 6.4008 4.4034           AEPW         NORTHEASTRUE STATION 198V/         143 0.40008 (PS)         MLETAGE 118V/         030 6.4008 4.4034           AEPW         NORTHEASTRUE STATION 198V/         150 0.40008 (PS)         MLETAGE 118V/         030 6.4008 4.4034           AEPW         NORTHEASTRUE ST						
Bits         U-HOLD BW/         101         -0.0000         PS         MUSTACE 198/V         200         -0.0000         Common PS         -0.0000         Commo PS         -0.00000         Commo PS		I D RENDO COLV	50	-0.00000 3P3	MUSTANG 115KV	
SPS         LP-MACR2 68Y         MSC ADM TRAVE         300         0.698         -0.428           AIPW         MG CONTRACT 139N/         14.01         0.00001 (PS)         MDC ADM TRAVE         300         0.698         -0.609           AEPW         NARDONS GRV         28.0         0.00001 (PS)         MDC ADM TRAVE         300         0.6285         -0.6000           SPS         NCHCAS 2007         21.0         0.0001 (PS)         MDC ADM TRAVE         300         0.6285         -0.6000           SPS         NCHCAS 2007         24.0         0.0001 (PS)         MDC ADM TRAVE         300         0.6285         -0.6000           SPS         NCHCAS 2007         4.40         0.0001 (PS)         MDC ADM TRAVE         300         0.6286         -0.6000           AEPW         NCHTHEASTERN STATION 138V/         4.41         -0.0000 (PS)         MUCTAG 118V/         300         0.6296         -0.6000           AEPW         NCHTHEASTERN STATION 138V/         4.41         -0.0000 (PS)         MUCTAG 118V/         300         0.6296         -0.6000           AEPW         NCHTHEASTERN STATION 138V/         7.5         -0.0000 (PS)         MUCTAG 118V/         300         0.6296         -0.6000           AEPW         NCHTHEAS			20	-0.00201 SPS	MUSTANG 115KV	
AEPW         NUCCONTINENT ISNY         142.11         -0.0003 (PS         MUSTAGE TISNY         300         0.4288		I P-MACK2 60KV		-0.00230 383		
SPS         MODEE COLINY 118V         46         0.0012 SPS         MUSTANS 118V         300         0.4298         0.4298           APP         MARKONS SWV         32         0.0007 SPS         MUSTANS 115V         300         0.4298         0.4300           SPS         MUCHOS 228V         224         0.0007 SPS         MUSTANS 115V         300         0.4298         0.4300           SPS         MUCHOS 228V         224         0.0007 SPS         MUSTANS 115V         300         0.4298         0.4300           SPS         MUSTANS 115V         424         0.0003 SPS         MUSTANS 115V         300         0.4298         0.4298           SPL         MUSTANS 115V         300         0.4298         <	AEDW/	MID-CONTINENT 138KV/			MUSTANG 115KV	
AEPW         TARKOVS. BBK/         ADD         ADD Constraints         AD				0.00134 SPS	MUSTANG 115KV	300 0.42995 -0.42999 5
BPS         INCHOLS 115KV         215         0.0122 (PS         MLSTAND 116V         300         0.42895         0.42985					MUSTANG 115KV	
SPS         NICHCG.5 200K/         0.424         0.0172/SPS         MUSTRAD 119KV         0.300         0.4288         0.4288           APPV         NORTH MUST GREAT REM. THAN         14.41         0.0003/SPS         MUSTRAD 119KV         300         0.4298         0.4288           APPV         NORTH MUST GREAT REM. THAN         14.41         0.0003/SPS         MUSTRAD 119KV         300         0.4298         0.4298           APPV         NORTH AUST REM. STATUD 345KV         94.4097         0.0004/SPS         MUSTRAD 119KV         300         0.4298         0.4298           SIAC         OBERLIN. 115KV         431         0.0002/SPS         MUSTRAD 119KV         300         0.4298         0.4398           AEPW         ODE ALMAN MONTHEAST T38KV         6.10         0.0002/SPS         MUSTRAD 119KV         300         0.4298         0.4398           AEPW         ODE ALMAN MONTHEAST T38KV         6.10         0.0002/SPS         MUSTRAD 119KV         300         0.4298         0.4398           AEPW         PLANTX 158V         5.70         0.0002/SPS         MUSTRAD 119KV         300         0.4298         0.4298         0.4298         0.4298         0.4298         0.4298         0.4298         0.4298         0.4298         0.4298         0.4		NICHOLS 115KV				
AEPW         NORTH MARSHAL SNV         6         -0.0000 [SPS         MUSTAND 115V         300         0.4298         0.4309           AEPW         NORTH MARSHAL SNV         418         -0.0000 [SPS         MUSTAND 115V         300         0.4298         0.4309           AEPW         NORTH MASTERN STATION 138V         418         -0.0000 [SPS         MUSTAND 115V         300         0.4298						
WEPL         NORTH WEST GREAT BEND 116V'         14.24         0.00033 PP3         MUSTING 116V'         300         0.4298         0.4398           AEPW         NORTH MEST GREAT BEND STATUNO 138V         94         0.00033 PP3         MUSTING 116V'         300         0.4298         0.4398           SUNC         ODEFLIN. 116V         300         0.4298         0.4398         0.4398           SUNC         ODEFLIN. 116V         300         0.4298         0.4398         0.4398           AEPW         ODEFLIN. 116V         300         0.4298         0.4398         0.4398           AEPW         ODEFLIN. 116V/         300         0.4298         0.4308         0.4308           AEPW         ODEFA.MUSTING NORTH EAST 138V         6.5         0.0000 SP3         MUSTING 116V/         300         0.4298         0.4318           SPS         PLANTX 116V/         70         0.0000 SP3         MUSTING 116V/         300         0.4298         0.4268           AEPW         RIVERSIDE STATUNO         172         0.00000 SP3         MUSTING 116V/         300         0.4298         0.4269           AEPW         RIVERSIDE STATUNO 138V/         712         0.00000 SP3         MUSTING 116V/         300         0.4298         4.4294		NORTH MARSHALL 69KV				
AEPW         NORTHEASTERN STATION 138KV         418         0.00005         PPS         MIGTANG 119KV         300         0.4286         0.43           AEPW         OBERLIN 115KV         4.31         0.0001         PPS         MIGTANG 119KV         300         0.4286		'NORTH WEST GREAT BEND 115KV'		0.00033 SPS	'MUSTANG 115KV'	300 0.42995 -0.42962 5
AEPW         NORTHEGSTEINS TATION 345V         94.9997         0.0000 [PS         MIXTANG TISV         0.001         0.0236         0.4296         0.4295         0.42						
AEPW         OEC 345KV         1978.00         0.00000 SPS         MUSTANG 115KV         0.000 Ac2985         0.42986         0.42986         0.42986 </td <td></td> <td></td> <td>94.99997</td> <td>-0.00004 SPS</td> <td></td> <td></td>			94.99997	-0.00004 SPS		
AEPW         OEC 345KY         137:03         0.0008 [PFS         MUSTANG 115KY         300         0.2295         0.4296         0.4301           AEPW         PIRKEY GENERATION 136KY         75         0.0008 [PFS         MUSTANG 115KY         300         0.4296         0.4301           AEPW         PIRKEY GENERATION 136KY         75         0.0008 [PFS         MUSTANG 115KY         300         0.4296         0.4301           SPS         PLANTX 220KY         6.19         0.0005 [PFS         MUSTANG 115KY         300         0.4296         0.4297         MUSTANG 118KY         0.00         0.429	SUNC	'OBERLIN 115KV'	4.31	0.0004 SPS	'MUSTANG 115KV'	300 0.42995 -0.42955 5
AEPW         PIRKEY GENERATION 138KV         75         0.0008 [PF         MUSTAKG 115KV         3300         0.42985         0.4301           SPS         PLANTX 115KV         579         0.0002 [PF         MUSTAKG 115KV         300         0.42985         0.42765           SPS         PLANTX 115KV         253         0.002 [PF         MUSTAKG 115KV         300         0.42985         0.42765           SPS         PLANTX 115KV         210         0.0021 [PF         MUSTAKG 115KV         300         0.42985         0.42765           SPS         RIVERVIEW SPKV         22         0.0028 [PF         MUSTAKG 115KV         300         0.42985         0.42896           SPS         SURC         SHARCTAKG 115KV         22         0.0028 [PF         MUSTAKG 115KV         300         0.42985         0.42985           SURC         SHARCTAKG 15KV         22         0.0028 [PF         MUSTAKG 115KV         300         0.42986         0.42986           SURC         SHARCTAKG 15KV         23         0.0021 [PF         MUSTAKG 115KV         300         0.42986         0.42986           SPS         SURCH 65KV         42         0.0021 [PF         MUSTAKG 115KV         300         0.42986         0.42921 <t< td=""><td>AEPW</td><td>'OEC 345KV'</td><td>1878.03</td><td>-0.00006 SPS</td><td>'MUSTANG 115KV'</td><td>300 0.42995 -0.43001 5</td></t<>	AEPW	'OEC 345KV'	1878.03	-0.00006 SPS	'MUSTANG 115KV'	300 0.42995 -0.43001 5
WEPL         PLAINVILLE 115KV         5.78         0.0027         SPS         MUSTANG 115KV         300         0.42886 <t< td=""><td></td><td>'OMPA-PAWHUSKA NORTHEAST 138KV'</td><td></td><td></td><td></td><td></td></t<>		'OMPA-PAWHUSKA NORTHEAST 138KV'				
SPS         PLANTX         11SV/         223         0.0021         PS         MUSTANG         11SV/         300         0.42886         0.42785           SPS         PLANTX         230V         188         0.000435         SPS         MUSTANG         11SV/         300         0.42895         0.42695 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
SPS         PLANT Z30KV         188         0.0435 (5PS         MUSTAND 115KV         300         0.4296         0.4266           AEPW         RIVESRDE STATION 138KV         231         0.0008 (5PS         MUSTAND 115KV         300         0.4296 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
AEPW         RIVERSIDE STATION 138KV         716         0.00028 (PS         MUSTANO 115KV         300         0.42995         0.43001           SPS         RIVERVEW 69KV         221         0.00128 (PS         MUSTANO 115KV         300         0.42995         0.42996 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
SPS         RIVERVIEW 09KV         223         0.0028         SPS         MUSTAND 115KV         300         0.4296         0.42966           AEPW         RVRSDLE 115KV         300         0.4296         0.42966 <td></td> <td>'PLANTX 230KV'</td> <td></td> <td>0.00435 SPS</td> <td></td> <td></td>		'PLANTX 230KV'		0.00435 SPS		
WEPL         RUSSELL 115KV         27.9         0.0023 PSA         MUSTANG 115KV         300         0.42985         0.43001						
Interview         RVRSDEG13a         1338K/         172         1.0006         Strand         115K/         300         0.42985         0.4298						
SUNC         SHARON SPIRINGS 115KV         2.5         0.0003 SPS         MUSTANG 115KV         300         0.42985         0.42985         0.42885           SPS         SIDCH 69KV         6.10         0.00128 SPS         MUSTANG 115KV         300         0.42985         0.42895           WEPL         SOUTH DODGE 115KV         4.2         0.00048 SPS         MUSTANG 115KV         300         0.42985         0.42947           AEPW         SOUTHWESTERN STATION 138KV         700         0.00072 SPS         MUSTANG 115KV         300         0.42985         0.42947           SPS         TUK 200KV         46.00         0.0072 SPS         MUSTANG 115KV         300         0.42985         0.42947           SPS         TUK 200KV         46.00         0.00072 SPS         MUSTANG 115KV         300         0.42985         0.43007           SPS         TUK APOMER STATION 69KV         46         0.00008 SPS         MUSTANG 115KV         300         0.42985         0.42001           AEPW         TULSA POMER STATION 69KV         80         0.40008 SPS         MUSTANG 115KV         300         0.42985         0.43001           AEPW         WEKES 345KV         328.00         0.90008 SPS         MUSTANG 115KV         300         0.42985						
SPS         SIDRCH 68V/         6         0.0128 [SPS         MUSTANG 115KV         300         0.42995         0.42894           WEPL         SUTH DODGE 115KV         6.15         0.00021 [SPS         MUSTANG 115KV         300         0.42995         0.42974           AEPW         SUTH DODGE 115KV         4.2         0.00012 [SPS         MUSTANG 115KV         300         0.42995         0.42974           SPS         TUCK 230KV         46.0759         0.00012 [SPS         MUSTANG 115KV         300         0.42995         0.42874           SPS         TUCK 230KV         46.0759         0.0002 [SPS         MUSTANG 115KV         300         0.42995         0.43264           AEPW         TULSA POWER STATION 198V         284         0.00006 [SPS         MUSTANG 115KV         300         0.42995         0.43264           AEPW         TULSA POWER STATION 198V         68         0.00006 [SPS         MUSTANG 115KV         300         0.42995         0.43001           AEPW         WELETKA 138KV         524         0.00006 [SPS         MUSTANG 115KV         300         0.42995         0.43001           AEPW         WIKES 345KV         526         0.00006 [SPS         MUSTANG 115KV         300         0.42995         0.43001					MUSTANG 115KV	
WEPL         SMITH CENTER 115KV         6.15         0.00021 [SPS         MUSTANG 115KV         300         0.42992         0.42994           AEPW         SOUTH MODGE 115KV         730         0.00012 [SPS         MUSTANG 115KV         300         0.42995         0.42995         0.42995         0.42995         0.42995         0.42995         0.42995         0.43007           SPS         TUCUMCARI 115KV         164 0759         0.00028 [SPS         MUSTANG 115KV         300         0.42995         0.43294           AEPW         TULSA POWER STATION 138KV         224         0.00006 [SPS         MUSTANG 115KV         300         0.42995         0.43001           AEPW         TULSA POWER STATION 68KV         80         0.00006 [SPS         MUSTANG 115KV         300         0.42995         0.43001           AEPW         WELSH 345KV         162         0.00006 [SPS         MUSTANG 115KV         300         0.42995         0.43001           AEPW         WELSH 345KV         528         0.00006 [SPS         MUSTANG 115KV         300         0.42995         0.43001           AEPW         WILKES 345KV         528         0.00006 [SPS         MUSTANG 115KV         300         0.42995         0.43001           SPS         CUNNINGHAM 115KV <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
WEPL         SOUTH DOGE         115KV         4.2         0.00048[SPS         MUSTANG         115KV         300         0.42995         0.42947           & EPW         SUDTWESTERS TATION 138KV         46.075         0.00072[SPS         MUSTANG         115KV         300         0.42995         0.42995         0.42995         0.42995         0.42995         0.42995         0.42995         0.42995         0.42995         0.42995         0.42995         0.42995         0.42995         0.42995         0.42995         0.42995         0.43001           AEPW         TULSA POWER STATION 138KV         2.94         0.000005 [SPS         MUSTANG         115KV         300         0.42995         0.43001           AEPW         WELEETKA 138KV         164         0.000005 [SPS         MUSTANG         115KV         300         0.42995         0.43001           AEPW         WELEETKA 138KV         528         0.000005 [SPS         MUSTANG         115KV         300         0.42995         0.43001           AEPW         WILKES 345KV         528         0.000005 [SPS         MUSTANG         115KV         300         0.42995         0.43001           SPS         CUNNINGHAM         115KV         528         MUSTANG         115KV         300<					MUSTANG 115KV	
AEPW         SOUTH-WESTERN STATION 138KV         730         -0.00012 [SPS         MUSTANG 115KV         300         0.42985         -0.43007           SPS         TUCLWARN 115KV         115         -0.00269 [SPS         MUSTANG 115KV         300         0.42985         -0.43204           SPS         TUCLMARN 115KV         115         -0.00269 [SPS         MUSTANG 115KV         300         0.42985         -0.43204           AEPW         TULSA POWER STATION 138KV         294         -0.00006 [SPS         MUSTANG 115KV         300         0.42985         -0.43204           AEPW         WELSH 345KV         162         -0.00006 [SPS         MUSTANG 115KV         300         0.42985         -0.43001           AEFW         WELSH 345KV         528         -0.00006 [SPS         MUSTANG 115KV         300         0.42985         -0.43001           AEFW         WILKES 138KV         329.506         -0.0006 [SPS         MUSTANG 115KV         300         0.42985         -0.43001           SPS         CUNNINGHAM 115KV         181         -0.1614 [SPS         MUSTANG 115KV         300         0.42985         -0.43001           SPS         CUNNINGHAM 115KV         184         -0.1645 [SPS         MUSTANG 115KV         300         0.42985 <td< td=""><td></td><td>SOUTH DODGE 115KV</td><td></td><td></td><td>MUSTANG 115KV</td><td></td></td<>		SOUTH DODGE 115KV			MUSTANG 115KV	
SPS         TOLK 200K/         46.0759         0.00372 [SPS         MUSTANG 115KV         300         0.42985         -0.42824           SPS         TUCUMCARI 115KV         15         -0.00263 [SPS         MUSTANG 115KV         300         0.42985         -0.43264           AEPW         TULSA POWER STATION 138KV         24         -0.00006 [SPS         MUSTANG 115KV         300         0.42985         -0.43001           AEPW         WELESTA 33KV         162         -0.00006 [SPS         MUSTANG 115KV         300         0.42985         -0.43001           AEPW         WELEST 345KV         54         -0.00006 [SPS         MUSTANG 115KV         300         0.42985         -0.43001           AEPW         WLKES 345KV         322.9566         -0.00006 [SPS         MUSTANG 115KV         300         0.42985         -0.43001           SPS         CUNNINGHAM 115KV         181         -0.16154 [SPS         MUSTANG 115KV         300         0.42985         -0.43001           SPS         MADOX 115KV         181         -0.16154 [SPS         MUSTANG 115KV         300         0.42985         -0.43001           SPS         CUNNINGHAM 115KV         181         -0.16154 [SPS         MUSTANG 115KV         300         0.42985         -0.31213						
SPS         TUCUMCARI         115KV         300         0.42995         0.43204           AEPW         TULSA POWER STATION 136KV         294         -0.0006         SPS         MUSTANG 115KV         300         0.42995         -0.43001           AEPW         TULSA POWER STATION 09KV         80         -0.0006         SPS         MUSTANG 115KV         300         0.42995         -0.43001           AEPW         WELETKA 138KV         162         -0.0006         SPS         MUSTANG 115KV         300         0.42995         -0.43001           AEPW         WELETKA 138KV         526         -0.0006         SPS         MUSTANG 115KV         300         0.42995         -0.43001           AEPW         WILKES 345KV         526         -0.0006         SPS         MUSTANG 115KV         300         0.42995         -0.43001           AEPW         WILKES 345KV         526         -0.0006         SPS         MUSTANG 115KV         300         0.42995         -0.43001           SPS         CUNNINGHAM 115KV         181         -0.16154         SPS         MUSTANG 115KV         300         0.42995         -0.43001           SPS         MADOX 115KV         181         -0.1654         SPS         MUSTANG 230KV         <	SDS		/6 0759	0.00012 SPS		
AEPW         TULSA POWER STATION 138KV         294         -0.0006         SP8         MUSTANG 115KV         300         0.42995         -0.43001           AEPW         WELEST KATION 69KV         80         -0.00006         SP8         MUSTANG 115KV         300         0.42995         -0.43001           AEPW         WELEST ASKV         162         -0.00006         SP8         MUSTANG 115KV         300         0.42995         -0.43001           AEPW         WELSH 345KV         524         -0.00006         SP8         MUSTANG 115KV         300         0.42995         -0.43001           AEPW         WILKS 336KV         3524         -0.00006         SP8         MUSTANG 115KV         300         0.42995         -0.43001           AEPW         WILKS 336KV         362         -0.00006         SP5         MUSTANG 115KV         300         0.42995         -0.43001           AEPW         WILKS 336KV         181         -0.16154         SP5         MUSTANG 115KV         160         -0.3001           SP5         TCUNNINGHAM 115KV         161         -0.16452         SP8         MUSTANG 230KV         160         -0.3011           SP5         MADOX 115KV         168.4         -0.16452         SP8         MU	SPS					
AEPW         TULSA POWER STATION 68KV         80         -0.00006 [SPS         MUSTANG 115KV         300         0.42985         -0.43001           AEPW         WELEFIKA 136KV         162         -0.00006 [SPS         MUSTANG 115KV         300         0.42985         -0.43001           AEPW         WELSH 345KV         528         -0.00006 [SPS         MUSTANG 115KV         300         0.42985         -0.43001           AEPW         WILKES 138KV         302,2956         -0.00006 [SPS         MUSTANG 115KV         300         0.42985         -0.43001           AEPW         WILKES 345KV         302,2956         -0.00006 [SPS         MUSTANG 115KV         300         0.42985         -0.43001           SPS         CUNNINGHAM 115KV         181         -0.16154 [SPS         MUSTANG 230KV         160         0.15059         -0.31213           SPS         MADOX 115KV         168.4         -0.1642 [SPS         MUSTANG 230KV         160         0.15059         -0.31511           SPS         CARLSBAD 69KV         168         -0.07552 [SPS         MUSTANG 115KV         300         0.42985         -0.27716           SPS         CUNNINGHAM 320KV         306         0.07301 [SPS         MUSTANG 115KV         160         0.15059         -0.2236<						
AEPW         VELEETKA 138KV         162         -0.0008         SPS         MUSTANG 115KV         300         0.42995         -0.43001           AEPW         VELSH 345KV         54         -0.0008         SPS         MUSTANG 115KV         300         0.42995         -0.43001           AEPW         VELKES 345KV         322.9506         -0.0006         SPS         MUSTANG 115KV         300         0.42995         -0.43001           SPS         CUNNINGHAM 115KV         181         -0.16154         SPS         MUSTANG 115KV         300         0.42995         -0.43001           SPS         CUNNINGHAM 115KV         181         -0.16154         SPS         MUSTANG 230KV         160         0.1509         -0.31213           SPS         MADOX 115KV         1684         -0.16452         SPS         MUSTANG 230KV         160         0.1509         -0.31511           SPS         MADOX 115KV         1684         -0.16452         SPS         MUSTANG 230KV         50         0.1509         -0.31511           SPS         CARLSBAD 68VY         160         0.1509         -0.27961         SPS         -0.07652         SPS         MUSTANG 115KV         50         0.15095         -0.22711           SPS		'TULSA POWER STATION 69KV'				
AEPW         WELSH         345KV         558         -0.0006         SPS         MUSTANG 115KV         300         0.42995         -0.43001           AEPW         WILKES         345KV         528         -0.0006         SPS         MUSTANG 115KV         300         0.42995         -0.43001           AEPW         WILKES         345KV         392.9666         -0.0006         SPS         MUSTANG 115KV         300         0.42995         -0.43001           SPS         CUNNINGHAM 115KV         181         -0.16154         SPS         MUSTANG 230KV         160         0.15059         -0.31213           SPS         CUNNINGHAM 115KV         181         -0.16154         SPS         MUSTANG 230KV         160         0.15059         -0.31213           SPS         MADOX 115KV         168.4         -0.16452         SPS         MUSTANG 230KV         50         0.15059         -0.31511           SPS         MUSTANG 230KV         160         0.15059         SPS         CARLSBAD 69KV         18         -0.07552         SPS         MUSTANG 230KV         50         0.15059         -0.22711           SPS         CUNNINGHAM 230KV         306         -0.07301         SPS         MUSTANG 230KV         50         0.						
AEPW         VILKES         138KV         528         -0.0006         SPS         MUSTANG         115KV         300         0.42995         -0.43001           SPS         CUNNINGHAM         115KV         392,9506         -0.0006         SPS         MUSTANG         115KV         300         0.42995         -0.43001           SPS         CUNNINGHAM         115KV         161         -0.16154         SPS         MUSTANG         230KV         160         0.15059         -0.31213           SPS         MADOX         115KV         1614         -0.16154         SPS         MUSTANG         230KV         160         0.15059         -0.31213           SPS         MADOX         115KV         16144         -0.16452         SPS         MUSTANG         230KV         160         0.15059         -0.31511           SPS         MADOX         115KV         1618         -0.07652         SPS         MUSTANG         230KV         160         0.15059         -0.22711           SPS         CARLSBAD 68KV         118         -0.07652         SPS         MUSTANG         230KV         56         0.15059         -0.22711           SPS         CUNNINGHAM         230KV         306         -0.07301<	AEPW	WELSH 345KV			'MUSTANG 115KV'	
SPS         CUNNINGHAM 115KV         181         -0.16154 [SPS         MUSTANG 230KV         160         0.15059         -0.31213           SPS         CUNNINGHAM 115KV         181         -0.16154 [SPS         MUSTANG 230KV         500         -0.3505         -0.31213           SPS         MADOX 115KV         1694         -0.16452 [SPS         MUSTANG 230KV         500         -0.3501           SPS         MADOX 115KV         1694         -0.16452 [SPS         MUSTANG 230KV         500         -0.3501           SPS         MADOX 15KV         1694         -0.16452 [SPS         MUSTANG 230KV         500         -0.3501           SPS         MUSTANG 230KV         169         -0.7652 [SPS         MUSTANG 115KV         300         0.42995         -0.22711           SPS         CUNNINGHAM 230KV         186         -0.7652 [SPS         MUSTAG 118,0 230KV         500         0.15059         -0.2271           SPS         CUNNINGHAM 230KV         306         -0.7301 [SPS         MUSTAG 118,0 230KV         500         0.15059         -0.2236           SPS         CUNNINGHAM 135KV         181         -0.16154 [AEPW         AEP-CT0113.8         161KV         50         0.25059         -0.2236           SPS         CUNNINGHA		'WILKES 138KV'	528	-0.00006 SPS	'MUSTANG 115KV'	300 0.42995 -0.43001 5
SPS         CUNNINGHAM 115KV'         181         -0.16154 [SPS         MUSTAGE 230KV'         500         0.15039         -0.31213           SPS         1MADOX 115KV'         1694         -0.16452 [SPS         MUSTAGE 230KV         160         0.15039         -0.31511           SPS         1MADOX 115KV'         1694         -0.16452 [SPS         MUSTAGE 230KV         50         0.15039         -0.31511           SPS         1MADOX 115KV'         1694         -0.16452 [SPS         MUSTAGE 118.0         230KV         50         0.15039         -0.31511           SPS         CARLSBAD 69KV         169         -0.07652 [SPS         MUSTAGE 230KV'         160         1.5059         -0.22711           SPS         CUNNINGHAM 230KV         306         -0.07301 [SPS         MUSTAGE 118.0         230KV         160         1.5059         -0.22711           SPS         CUNNINGHAM 230KV         306         -0.07301 [SPS         MUSTAGE 118.0         230KV         160         1.5059         -0.2211           SPS         CUNNINGHAM 115KV         181         -0.16154 [AEPW         AEPCT0113.8         1.5161 [AEPW         AEPCT0113.8         0.0004         0.16167           SPS         CUNNINGHAM 115KV         181         -0.16154 [AEPW						
SPS         MADOX         115KV         1684         -0.16452         SPS         MUSTANG 230KV         160         0.1509         -0.31511           SPS         MADOX         115KV         16144         -0.16452         SPS         MUSTANG 230KV         500         0.15091         -0.31511           SPS         MUSTANG 230KV         110         0.15059         SPS         CARLSBAD 69KV         118         -0.07652         SPS         MUSTANG 230KV         160         0.15099         -0.22711           SPS         CARLSBAD 69KV         118         -0.07652         SPS         MUSTANG 230KV         50         0.1509         -0.22711           SPS         CUNNINGHAM 230KV         306         -0.07301         SPS         MUSTANG 230KV         50         -0.2236           SPS         CUNNINGHAM 230KV         306         -0.07301         SPS         MUSTANG 230KV         50         0.1509         -0.2236           SPS         CUNNINGHAM 115KV         181         -0.16154         MUSTANG 230KV         50         0.1509         -0.2236           SPS         CUNNINGHAM 115KV         181         -0.16154         AEPW         AEP-CT0113.8         151KV         68         0.00004         -0.16151						
SPS         MADOX 115KV         164-0         16452         SPS         MUSTAGE 230KV         50         0.15059         0.237936           SPS         MUSTAGE 230KV         150         0.15059         SPS         MUSTAGE 230KV         300         0.42995         0.227936           SPS         CARLSBAD 69KV         16         0.07652         SPS         MUSTAGE 230KV         160         0.15059         0.227916           SPS         CARLSBAD 69KV         16         -0.07652         SPS         MUSTAGE 116.2 20KV         50         0.15059         -0.22711           SPS         CUNNINGHAM 230KV         16         -0.07652         SPS         MUSTAGE 116.2 20KV         50         0.15059         -0.22711           SPS         CUNNINGHAM 230KV         306         -0.07301         SPS         MUSTAGE 116.2 20KV         50         0.15059         -0.2236           SPS         CUNNINGHAM 115KV         181         -0.16154/MEPU         A.M. MULLEGRERGEN GENERATOR 115KV         50         0.16167           SPS         CUNNINGHAM 115KV         181         -0.16154/AEPW         AEP-CT0113.8         161KV         85         0.00004         -0.1615           SPS         CUNNINGHAM 115KV         181         -0.16154/AEPW <td></td> <td>CUNNINGHAM 115KV</td> <td></td> <td></td> <td>'MUSTG5 118.0 230KV'</td> <td></td>		CUNNINGHAM 115KV			'MUSTG5 118.0 230KV'	
SPS         MUSTANG 230KV         150         0.15059         SPS         MUSTANG 230KV         300         0.42995         -0.27316           SPS         CARLSBAD 69KV         18         -0.07552         SPS         MUSTANG 230KV         160         0.15059         -0.2731           SPS         CARLSBAD 69KV         18         -0.07552         SPS         MUSTANG 230KV         500         0.15059         -0.22711           SPS         CUNNINGHAM 230KV         306         -0.07301         SPS         MUSTANG 230KV         160         0.15059         -0.2226           SPS         CUNNINGHAM 230KV         306         -0.07301         SPS         MUSTANG 230KV         50         0.15059         -0.2236           SPS         CUNNINGHAM 15KV         181         -0.15154         MEV         51         0.0033         -0.16187           SPS         CUNNINGHAM 15KV         181         -0.16154         AEPW         AEP-CT013.8         161KV         85         0.00004         -0.1615           SPS         CUNNINGHAM 115KV         181         -0.16154         AEPW         AEP-CT013.8         161KV         86         0.00004         -0.1615           SPS         CUNNINGHAM 115KV         181 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
SPS         (CARLSBAD 69KV         116         -0.07652 (SPS         MUSTANG 230KV         160         0.15059         -0.22711           SPS         CCARLSBAD 69KV         118         -0.07652 (SPS         MUSTANG 230KV         500         -0.15059         -0.22711           SPS         CUNNINGHAM 230KV         306         -0.07301 (SPS         MUSTANG 230KV         160         0.15059         -0.2236           SPS         CUNNINGHAM 230KV         306         -0.07301 (SPS         MUSTANG 230KV         500         0.15059         -0.2236           SPS         CUNNINGHAM 115KV         181         -0.16154 (MVEPU         A.M. MULLERGREN GENERATOR 115KV         50         0.1505         -0.2236           SPS         CUNNINGHAM 115KV         181         -0.16154 (AEPW         AEP-CT013.8         161KV         85         -0.0004         -0.1615           SPS         CUNNINGHAM 115KV         181         -0.16154 (AEPW         AEP-CT013.8         161KV         85         -0.0004         -0.1615           SPS         CUNNINGHAM 115KV         181         -0.16154 (AEPW         AEP-CT013.8         161KV         85         -0.0004         -0.1615           SPS         CUNNINGHAM 115KV         181         -0.16154 (AEPW         AEP-CT013.8					'MUSTG5 118.0 230KV'	
SPS         CARLSAD 69KV         18         -0.07652 [SPS         MUSTROG 206KV         500         0.15059         -0.22761           SPS         CUNNINGHAM 230KV         306         -0.07301 [SPS         MUSTROG 206KV         160         -0.5509         -0.2236           SPS         CUNNINGHAM 230KV         306         -0.07301 [SPS         MUSTROG 206KV         500         -0.5509         -0.2236           SPS         CUNNINGHAM 230KV         306         -0.07301 [SPS         MUSTROG 206KV         500         -0.1509         -0.2236           SPS         CUNNINGHAM 115KV         181         -0.16154 [MEPU         A.M. MULLERGENG SENERATOR 115KV         81         -0.01615           SPS         CUNNINGHAM 115KV         181         -0.16154 [AEPW         AEP-CT0213.8         161KV         85         -0.0004         -0.1615           SPS         CUNNINGHAM 115KV         181         -0.16154 [AEPW         AEP-CT0213.8         161KV         86         -0.0004         -0.1615           SPS         CUNNINGHAM 115KV         181         -0.16154 [AEPW         AEP-CT0213.8         161KV         86         -0.0004         -0.1615           SPS         CUNNINGHAM 115KV         181         -0.16154 [AEPW         AEP-CT0413.8         161KV						
SPS         'CUNNINGHAM 230K'         306         -0.07301 SPS         MUSTANG 230K'         160         0.15059         -0.2236           SPS         CUNNINGHAM 230K'         306         -0.07301 SPS         MUSTANG 230K'         50         -0.15059         -0.2236           SPS         CUNNINGHAM 15KV         181         -0.16154 MEPL         A. M. MULLERGREN GENERATOR 115K'         11.16103         0.00033         -0.1615           SPS         CUNNINGHAM 115KV         181         -0.16154 AEPW         AEP-CT013.8 161KV         85         -0.0004         -0.1615           SPS         CUNNINGHAM 115KV         181         -0.16154 AEPW         AEP-CT013.8 161KV         85         -0.0004         -0.1615           SPS         CUNNINGHAM 115KV         181         -0.16154 AEPW         AEP-CT013.8 161KV         85         -0.0004         -0.1615           SPS         CUNNINGHAM 115KV         181         -0.16154 AEPW         AEP-CT013.8 161KV         85         -0.0004         -0.1615           SPS         CUNNINGHAM 115KV         181         -0.16154 AEPW         AEP-CT013.8 161KV         85         -0.0004         -0.1615           SPS         CUNNINGHAM 115KV         181         -0.16154 AEPW         CAPROCK 115KV         220         -0.						
SPS         CUNNINGHAM 230KV         300         -0.07301 [SPS         MUSTG5 118.0         230KV         500         0.15059         -0.2236           SPS         CUNNINGHAM 15KV         181         -0.16154 [MEPU         A. MULLEGREN GENERATOR 115KV         111.18103         0.00033         -0.01617           SPS         CUNNINGHAM 115KV         181         -0.16154 [MEPU         AEP-CT0113.8         161KV         85         0.0004         -0.1615           SPS         CUNNINGHAM 115KV         181         -0.16154 [AEPW         AEP-CT0131.8         161KV         85         0.0004         -0.1615           SPS         CUNNINGHAM 115KV         181         -0.16154 [AEPW         AEP-CT0131.8         161KV         85         0.0004         -0.1615           SPS         CUNNINGHAM 115KV         181         -0.16154 [AEPW         AEP-CT0313.8         161KV         85         0.0004         -0.1615           SPS         CUNNINGHAM 115KV         181         -0.16154 [SPS         CAPACKAN 115KV         220         0.00126         -0.1622           SPS         CUNNINGHAM 115KV         181         -0.16154 [SPS         CAPACKAN 115KV         223         -0.02266         -0.1628           SPS         CUNNINGHAM 115KV         181				-0.07652 SPS		
SPS         'CUNNINGHAM 115KV'         181         -0.16154/WEPL         A. M. MULLERGREN GENERATOR 115KV'         11.10103         0.00034         -0.16157           SPS         CUNNINGHAM 115KV'         181         -0.16154/AEPW         AEP-CT013138         161KV'         85         0.00004         -0.1615           SPS         CUNNINGHAM 115KV'         181         -0.16154/AEPW         AEP-CT013138         161KV'         85         -0.00004         -0.1615           SPS         CUNNINGHAM 115KV'         181         -0.16154/AEPW         AEP-CT03138         161KV'         85         -0.00004         -0.1615           SPS         CUNNINGHAM 115KV'         181         -0.16154/AEPW         AEP-CT03138         161KV'         65         -0.00004         -0.1615           SPS         CUNNINGHAM 115KV'         181         -0.16154/AEPW         AEP-CT013138         161KV'         65         -0.00004         -0.1615           SPS         CUNNINGHAM 115KV'         181         -0.16154/SPS         BLACKHAWK 115KV'         220         0.00268         -0.1628           SPS         CUNNINGHAM 115KV'         181         -0.16154/AEPW         COGENTRIX 345KV         200         0.00026         -0.16187           SPS         CUNNINGHAM 115KV'		CUNNINGHAM 230KV		-0.07301 SPS		
SPS         CUNNINGHAM 115KV         181         -0.16154/AEPW         AEP-CT0113.8         161KV         85         -0.0004         -0.1615           SPS         CUNNINGHAM 115KV         181         -0.1615/AEPW         AEP-CT013.8         161KV         85         -0.0004         -0.1615           SPS         CUNNINGHAM 115KV         181         -0.1615/AEPW         AEP-CT013.8         161KV         85         -0.0004         -0.1615           SPS         CUNNINGHAM 115KV         181         -0.1615/AEPW         AEP-CT013.8         161KV         85         -0.0004         -0.1615           SPS         CUNNINGHAM 115KV         181         -0.1615/AEPW         AEP-CT013.8         161KV         85         -0.0004         -0.1615           SPS         CUNNINGHAM 115KV         181         -0.1615/AEPW         AEP-CT013.8         161KV         85         -0.0004         -0.1615           SPS         CUNNINGHAM 115KV         181         -0.1615/AEPW         COGENTRIX 345KV         220         0.0026         -0.1614           SPS         CUNNINGHAM 115KV         181         -0.1615/AEPW         COGENTRIX 345KV         200         -0.0006         -0.1614           SPS         CUNNINGHAM 115KV         181         -0.161				-0.0/301 SPS		
SPS         CUNNINGHAM 115KV         181         -0.16154         AEPV         AEP-CT0213.8         161KV         85         0.0004         -0.1615           SPS         CUNNINGHAM 115KV         181         -0.16154         AEPV         AEP-CT0213.8         161KV         85         -0.0004         -0.1615           SPS         CUNNINGHAM 115KV         181         -0.16154         AEPV         AEP-CT0313.8         161KV         65         -0.00004         -0.1615           SPS         CUNNINGHAM 115KV         181         -0.16154         AEPV         CAPROCK 115KV         220         0.0026         -0.1628           SPS         CUNNINGHAM 115KV         181         -0.16154         AEPV         CORPROCK 115KV         220         0.0026         -0.1628           SPS         CUNNINGHAM 115KV         181         -0.16154         AEPV         COGENTRIX 345KV         200         0.00266         -0.16187           SPS         CUNNINGHAM 115KV         181         -0.16154         AEPV         COGENTRIX 345KV         200         0.00026         -0.16187           SPS         CUNNINGHAM 115KV         181         -0.16154         AEPV         COGENTRIX 345KV         200         0.00027         -0.16187	SPS				A. W. WOLLERGREN GENERATOR TION	
SPS         CUNNINGHAM 115KV         181         -0.16154/AEPW         AEP-CT0313.8         161KV         85         -0.0004         -0.1615           SPS         CUNNINGHAM 115KV         181         -0.16154/AEPW         AEP-CT0313.8         161KV         65         -0.0004         -0.1615           SPS         CUNNINGHAM 115KV         181         -0.16154/AEPW         AEP-CT0313.8         161KV         65         -0.0004         -0.1615           SPS         CUNNINGHAM 115KV         181         -0.16154/AEPW         AEP-CT0413.8         161KV         220         0.00126         -0.1615           SPS         CUNNINGHAM 115KV         181         -0.16154/AEPW         CORENTRIX.345KV         220         0.00266         -0.16148           SPS         CUNNINGHAM 115KV         181         -0.16154/AEPW         COGENTRIX.345KV         200         0.00026         -0.16148           SPS         CUNNINGHAM 115KV         181         -0.16154/AEPW         COMANCHE 138KV         200         -0.00027         -0.16127           SPS         CUNNINGHAM 115KV         181         -0.16154/AEPW         COMANCHE 138KV         160         -0.00027         -0.16127           SPS         CUNNINGHAM 115KV         181         -0.16154/AEPW					AEP-CT0213.8 161KV/	
SPS         CUNNINGHAM 115KV'         181         -0.16154 //EPW         AEP-CT0413.8 161KV'         65         0.0004         -0.1615           SPS         CUNNINGHAM 115KV'         181         -0.16154 //SPW         AEP-CT0413.8 161KV'         220         0.00126         -0.1628           SPS         CUNNINGHAM 115KV'         181         -0.16154 //SPW         CAPROCK 115KV'         231         -0.00266         -0.1628           SPS         CUNNINGHAM 115KV'         181         -0.16154 //SPW         COGENTRIX 345KV         200         -0.00266         -0.16127           SPS         CUNNINGHAM 115KV'         181         -0.16154 //AEPW         COGENTRIX 345KV         200         -0.00266         -0.16127           SPS         CUNNINGHAM 115KV'         181         -0.16154 //AEPW         COGENTRIX 345KV         200         -0.00266         -0.16127           SPS         CUNNINGHAM 115KV'         181         -0.16154 //AEPW         COMANCHE 38KV'         160         -0.0027         -0.16127           SPS         CUNNINGHAM 115KV'         181         -0.16154 //AEPW         COMANCHE 69KV'         63         -0.00023         -0.16127           SPS         CUNNINGHAM 115KV'         181         -0.16154 //AEPW         COMANCHE 69KV'         63		CUNNINGHAM 115KV				
SPS         CUNNINGHAM 115KV         181         -0.16154         SPS         BLACKHAWK 115KV         220         0.00726         -0.1528           SPS         CUNNINGHAM 115KV         181         -0.16154         SPS         CAPROCK 115KV         23         -0.0026         -0.1528           SPS         CUNNINGHAM 115KV         181         -0.16154         SPS         CAPROCK 115KV         200         -0.0026         -0.1528           SPS         CUNNINGHAM 115KV         181         -0.16154         SPS         COMANCHE 138KV         200         -0.00026         -0.1618           SPS         CUNNINGHAM 115KV         181         -0.16154         SPE         COMANCHE 138KV         200         -0.00027         -0.1612           SPS         CUNNINGHAM 115KV         181         -0.16154         AEPW         COMANCHE 138KV         160         -0.00027         -0.1612           SPS         CUNNINGHAM 115KV         181         -0.16154         AEPW         COMANCHE 638KV         160         -0.00027         -0.1612           SPS         CUNNINGHAM 115KV         181         -0.16154         AEPW         COMANCHE 636KV         63         -0.00027         -0.1613           Maximum Decrement are determine from the Souce and Sink Op					'AEP-CT0413.8 161KV'	
SPS         CUNNINGHAM 115KV'         181         -0.16154         SPS         CAPROCK 115KV'         23         0.00269         -0.15885           SPS         CUNNINGHAM 115KV'         181         -0.16154         AEPW         COGENTRIX 345KV'         200         -0.00269         -0.15885           SPS         CUNNINGHAM 115KV'         181         -0.16154         AEPW         COGENTRIX 345KV'         200         -0.00269         -0.16164           SPS         CUNNINGHAM 115KV'         181         -0.16154         AEPW         COMANCHE 38KV'         160         -0.00027         -0.16127           SPS         CUNNINGHAM 115KV'         181         -0.16154         AEPW         COMANCHE 68KV'         63         -0.00023         -0.16131           Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.         Factor = Source GSF - Sink GSF         -0.16131						
SPS         CUNNINGHAM 115KV         181         -0.16154         AEPW         COGENTRIX 345KV         200         0.00006         -0.1614           SPS         CUNNINGHAM 115KV         181         -0.16154         AEPW         COGENTRIX 345KV         200         0.00006         -0.1614           SPS         CUNNINGHAM 115KV         181         -0.16154         AEPW         COMANCHE 138KV         160         -0.0002         -0.16127           SPS         CUNNINGHAM 115KV         181         -0.16154         AEPW         COMANCHE 636KV         63         -0.00023         -0.16131           Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.         -					CAPROCK 115KV	
SPS         CUNNINGHAM 115KV         181         -0.16154/AEPW         COMANCHE 138KV         160         -0.00027         -0.16127           SPS         CUNNINGHAM 115KV         181         -0.16154/AEPW         COMANCHE 68KV         63         -0.00023         -0.16131           Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.         Factor = Source GSF - Sink GSF         -0.00023         -0.16131						
SPS         CUNNINGHAM 115KV         181         -0.16154         AEPW         COMANCHE         69KV         63         -0.00023         -0.16131           Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.         Factor = Source GSF - Sink GSF         -0.00023         -0.16131						
Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified. Factor = Source GSF - Sink GSF	SPS	CUNNINGHAM 115KV	181	-0.16154 AEPW	COMANCHE 69KV	
Factor = Source GSF - Sink GSF					limiting facility was identified.	· · · · ·
			-			

Upgrade:	Mustang-San Andr-Amerada Hess 115KV								
Limiting Facility:	DENVER CITY INTERCHANGE N - MUSTANG STATION 11	5KV CKT 1							
Direction:	To->From								
Line Outage:	DENVER CITY INTERCHANGE S - MUSTANG STATION 115	5KV CKT 1							
Flowgate:	51960519661519625196814407SH								
Date Redispatch Needed:	6/1 - 10/1 Until EOC of Upgrade								
Season Flowgate Identified:	2007 Summer Shoulder								
		Aggregate Relief							
Reservation	Relief Amount	Amount							
1162675	3.7	3.7							
				Sink		1		1	Ag
		Maximum		Control		Maximum			Re
Source Control Area	Source		GSF	Area	Sink		GSF		A
SPS	CUNNINGHAM 115KV	181			'MUSTANG 115KV'	300			
SPS	'MADOX 115KV'	75			'MUSTANG 115KV'	300			
SPS	'CARLSBAD 69KV'	18			'MUSTANG 115KV'	300			
SPS	'CUNNINGHAM 230KV'	110			'MUSTANG 115KV'	300			
AEPW	'AEP-CT0213.8 161KV'	10			'MUSTANG 115KV'	300			
AEPW	'AEP-CT0313.8 161KV'	85			'MUSTANG 115KV'	300			
AEPW	'AEP-CT0413.8 161KV'	85			'MUSTANG 115KV'	300			
AEPW	'AEP-CT0513.8 161KV'	85			'MUSTANG 115KV'	300			
AEPW	'AEP-CT0613.8 161KV'	85			'MUSTANG 115KV'	300			
AEPW	'AH-CC_C118.0 138KV'	150			'MUSTANG 115KV'	300			
AEPW	'AH-CC_C218.0 138KV'	150			'MUSTANG 115KV'	300			
AEPW	'AH-CC_ST18.0 138KV'	250			'MUSTANG 115KV'	300			
AEPW	'ARSENAL HILL 69KV'	99			'MUSTANG 115KV'	300			
WEPL	'BELOIT 115KV'	16.6			'MUSTANG 115KV'	300	0.42994	-0.42977	1
WEPL	'CIMARRON RIVER 115KV'	72			'MUSTANG 115KV'	300			
SUNC	'CITY OF GOODLAND 115KV'	13.9			'MUSTANG 115KV'	300			
SUNC	'CITY OF HILL CITY 115KV'	6.1			'MUSTANG 115KV'	300			
SUNC	CITY OF HUGOTON 69KV	17.07			'MUSTANG 115KV'	300			
SUNC	'CITY OF LAKIN 115KV'	4.25			'MUSTANG 115KV'	300			
SUNC	'CITY OF NORTON 115KV'	10.56			'MUSTANG 115KV'	300			
SUNC	'CITY OF ST.FRANCIS 115KV'	4.3	0.00048	SPS	'MUSTANG 115KV'	300	0.42994	-0.42946	il 🗌

Aggregate Redispatch Amount (MW)

WEPL								· · · · · ·	
	'CLIFTON 115KV'	42.31445			'MUSTANG 115KV'	300			9
AEPW	'COGENTRIX 345KV'		-0.00006		'MUSTANG 115KV'	300	0.42994	-0.43	9
SPS	'CZ 69KV'	4	0.00118	SPS	'MUSTANG 115KV'	300	0.42994	-0.42876	9
AEPW	'EASTMAN 138KV'	130.01 -	-0.00006	SPS	'MUSTANG 115KV'	300	0.42994	-0.43	9
AEPW	'FITZHUGH 161KV'		-0.00004		'MUSTANG 115KV'	300	0.42994	-0.42998	9
AEPW	'FLINT CREEK 161KV'		-0.00004		MUSTANG 115KV	300		-0.42998	0
AEPW	'FULTON 115KV'		-0.00004		'MUSTANG 115KV'	300	0.42994	-0.42998	9
									9
SUNC	'GARDEN CITY 115KV'		0.00062		'MUSTANG 115KV'	300	0.42994	-0.42932	9
SUNC	'GARDEN CITY 34KV'	10.7	0.00062	SPS	'MUSTANG 115KV'	300		-0.42932	9
SUNC	'GARDEN CITY 69KV'	13	0.00062	SPS	'MUSTANG 115KV'	300	0.42994	-0.42932	9
WEPL	'GREENLEAF 115KV'	8	0.00013	SPS	'MUSTANG 115KV'	300	0.42994	-0.42981	9
WEPL	'GREENSBURG 115KV'	6.2	0.00039	SPS	'MUSTANG 115KV'	300	0.42994	-0.42955	9
WEPL	'HARPER 138KV'		0.00013		'MUSTANG 115KV'	300	0.42994	-0.42981	9
AEPW	'HEMPCOAL24.0 138KV'		-0.00007		'MUSTANG 115KV'	300	0.42994	-0.43001	9
									9
SUNC	HOLCOMB 115KV	23.89566	0.00063		'MUSTANG 115KV'	300		-0.42931	
SPS	'HUBRCO2 69KV'	6	0.0013		'MUSTANG 115KV'	300	0.42994	-0.42864	9
SUNC	JOHNSON 69KV	5.2	0.0006		'MUSTANG 115KV'	300	0.42994	-0.42934	9
WEPL	JUDSON LARGE 115KV	7.886536	0.0005	SPS	'MUSTANG 115KV'	300	0.42994	-0.42944	9
AEPW	'KIOWA 345KV'	1348 -	-0.00013		'MUSTANG 115KV'	300	0.42994	-0.43007	9
AEPW	'KNOXLEE 138KV'	381 -	-0.00006	SPS	'MUSTANG 115KV'	300		-0.43	9
AEPW	'L&D13_69KV'		-0.00004		MUSTANG 115KV	300	0.42994	-0.42998	0
AEPW	LEBROCK 345KV		-0.00004		'MUSTANG 115KV'	300		-0.42998	9
							0.42994		-
AEPW	'LIEBERMAN 138KV'		-0.00006		'MUSTANG 115KV'	300	0.42994	-0.43	9
AEPW	'LONESTAR POWER PLANT 69KV'		-0.00006		'MUSTANG 115KV'	300	0.42994	-0.43	9
SPS	'LP-HOLL2 69KV'	132 -	0.00243	SPS	'MUSTANG 115KV'	300	0.42994	-0.43237	9
SPS	'LP-MACK2 69KV'		0.00252		'MUSTANG 115KV'	300	0.42994	-0.43246	9
AEPW	'MID-CONTINENT 138KV'	142.11 -	-0.00005	SPS	'MUSTANG 115KV'	300	0.42994	-0.42999	9
SPS	MOORE COUNTY 115KV	48	0.00138	CDC	MUSTANG 115KV	300	0.42994	-0.42999	3
									9
AEPW	'NARROWS 69KV'	3 -	-0.00007	SPS	'MUSTANG 115KV'	300	0.42994	-0.43001	9
SPS	'NICHOLS 115KV'		0.00126		'MUSTANG 115KV'	300	0.42994	-0.42868	9
SPS	'NICHOLS 230KV'		0.0013		'MUSTANG 115KV'	300		-0.42864	9
AEPW	'NORTH MARSHALL 69KV'	5 -	0.00006	SPS	'MUSTANG 115KV'	300	0.42994	-0.43	9
WEPL	'NORTH WEST GREAT BEND 115KV'	14.24	0.00035	SPS	'MUSTANG 115KV'	300	0.42994	-0.42959	9
AFPW	'NORTHEASTERN STATION 138KV'		-0.00005		'MUSTANG 115KV'	300	0.42994	-0.42999	9
AEPW	'NORTHEASTERN STATION 345KV'		-0.00005	CDC	'MUSTANG 115KV'	300	0.42994	-0.42999	0
									9
SUNC	'OBERLIN 115KV'	4.31	0.0004		'MUSTANG 115KV'	300	0.42994	-0.42954	9
AEPW	'OEC 345KV'		-0.00006		'MUSTANG 115KV'	300		-0.43	9
AEPW	'OMPA-PAWHUSKA NORTHEAST 138KV'	6.9 -	-0.00005	SPS	'MUSTANG 115KV'	300	0.42994	-0.42999	9
AEPW	'PIRKEY GENERATION 138KV'	75 -	-0.00006	SPS	'MUSTANG 115KV'	300	0.42994	-0.43	9
WEPL	'PLAINVILLE 115KV'		0.00025		'MUSTANG 115KV'	300	0.42994	-0.42969	9
SPS	'PLANTX 115KV'	84.05664	0.0022		'MUSTANG 115KV'	300	0.42994	-0.42774	9
AEPW	'RIVERSIDE STATION 138KV'		-0.00006		'MUSTANG 115KV'	300	0.42994	-0.43	9
		23							9
SPS	'RIVERVIEW 69KV'		0.0013		'MUSTANG 115KV'	300	0.42994	-0.42864	
WEPL	'RUSSELL 115KV'	27.9	0.0003		'MUSTANG 115KV'	300		-0.42964	9
AEPW	'RVRSIDEG13.8 138KV'	172 -		SPS	'MUSTANG 115KV'	300		-0.43	9
	'SIDRCH 69KV'		0.0013	SPS	'MUSTANG 115KV'	300	0.42994	-0.42864	9
SPS		6	0.00004	202	'MUSTANG 115KV'				9
SPS WEPL	'SMITH CENTER 115KV'	6.15	0.00021			300	0.42994	-0.42973	9
WEPL	SMITH CENTER 115KV SOUTH DODGE 115KV		0.00021						
WEPL WEPL	'SOUTH DODGE 115KV'	4.2	0.00051	SPS	'MUSTANG 115KV'	300	0.42994	-0.42943	9
WEPL WEPL AEPW	SOUTH DODGE 115KV' SOUTHWESTERN STATION 138KV'	4.2 616 -	0.00051	SPS SPS	'MUSTANG 115KV' 'MUSTANG 115KV'	300 300	0.42994	-0.42943 -0.43006	9 9
WEPL WEPL AEPW SPS	SOUTH DODGE 115KV' SOUTHWESTERN STATION 138KV' TOLK 230KV'	4.2 616 - 54.02521	0.00051 -0.00012 0.00375	SPS SPS SPS	MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV	300 300 300	0.42994 0.42994 0.42994	-0.42943 -0.43006 -0.42619	9 9 9
WEPL WEPL AEPW SPS SPS	SOUTH DODGE 115KV' SOUTHWESTERN STATION 138KV' TOLK 230KV' TUCUMCARI 115KV'	4.2 616 - 54.02521 15 -	0.00051 -0.00012 0.00375 -0.00267	SPS SPS SPS SPS	MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV	300 300 300 300 300	0.42994 0.42994 0.42994 0.42994	-0.42943 -0.43006 -0.42619 -0.43261	9 9 9 9
WEPL WEPL AEPW SPS SPS AEPW	SOUTH DODGE 115KV' SOUTHWESTERN STATION 138KV' TOLK 230KV' TUCUMCARI 115KV' TULSA POWER STATION 138KV'	4.2 616 54.02521 15 256	0.00051 0.00012 0.00375 0.00267 0.00006	SPS SPS SPS SPS SPS	MUSTANG 115KV' MUISTANG 115KV' MUISTANG 115KV' MUISTANG 115KV' MUISTANG 115KV'	300 300 300 300 300 300	0.42994 0.42994 0.42994 0.42994 0.42994	-0.42943 -0.43006 -0.42619 -0.43261 -0.43	9 9 9 9 9
WEPL WEPL AEPW SPS SPS AEPW AEPW	SOUTH DODGE 115KV SOUTHWESTERN STATION 138KV TOLK 238KV TUCUMCARI 115KV TULSA POWER STATION 69KV	4.2 616 - 54.02521 15 - 256 - 80 -	0.00051 0.00012 0.00375 0.00267 0.00006 0.00006	SPS SPS SPS SPS SPS SPS	MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV	300 300 300 300 300 300 300	0.42994 0.42994 0.42994 0.42994 0.42994 0.42994	-0.42943 -0.43006 -0.42619 -0.43261 -0.43 -0.43	9 9 9 9 9 9
WEPL           WEPL           AEPW           SPS           SPS           AEPW           AEPW           AEPW           AEPW           AEPW	SOUTH DODGE 115KV SOUTHWESTEN STATION 138KV TOLK 230KV TUCUMCARI 115KV TUCSA POWER STATION 138KV TULSA POWER STATION 68KV WELEETKA 138KV	4.2 616 54.02521 15 256 80 162	0.00051 0.00012 0.00375 0.00267 0.00006 0.00006 0.00009	SPS SPS SPS SPS SPS SPS SPS	MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV	300 300 300 300 300 300 300 300	0.42994 0.42994 0.42994 0.42994 0.42994	-0.42943 -0.43006 -0.42619 -0.43261 -0.43 -0.43 -0.43 -0.43003	9 9 9 9 9
WEPL WEPL AEPW SPS SPS AEPW AEPW	SOUTH DODGE 115KV SOUTHWESTERN STATION 138KV TOLK 238KV TUCUMCARI 115KV TULSA POWER STATION 69KV	4.2 616 54.02521 15 256 80 162	0.00051 0.00012 0.00375 0.00267 0.00006 0.00006	SPS SPS SPS SPS SPS SPS SPS	MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV	300 300 300 300 300 300 300	0.42994 0.42994 0.42994 0.42994 0.42994 0.42994	-0.42943 -0.43006 -0.42619 -0.43261 -0.43 -0.43	9 9 9 9 9 9
WEPL           WEPL           AEPW           SPS           SPS           AEPW           AEPW           AEPW           AEPW           AEPW	SOUTH DODGE 115KV SOUTHWESTEN STATION 138KV TOLK 230KV TUCUMCARI 115KV TUCSA POWER STATION 138KV TULSA POWER STATION 68KV WELEETKA 138KV	4.2 616 54.02521 15 256 80 162 84	0.00051 0.00012 0.00375 0.00267 0.00006 0.00006 0.00009 0.00007	SPS SPS SPS SPS SPS SPS SPS SPS SPS	MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV	300 300 300 300 300 300 300 300 300	0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994	-0.42943 -0.43006 -0.42619 -0.43261 -0.43 -0.43 -0.43 -0.43003	9 9 9 9 9 9 9
WEPL           WEPL           AEPW           SPS           SPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW	SOUTH DODGE 115KV SOUTHWESTERN STATION 138KV TOLK 230KV TULSA 230KV TULSA POWER STATION 138KV TULSA POWER STATION 69KV WELEETKA 136KV WELETKA 138KV WELETKA 345KV	4.2 616 - 54.02521 15 - 256 - 80 - 162 - 84 - 428.5868 -	0.00051 0.00375 0.00267 0.00006 0.00006 0.00009 0.00007 0.00006	SPS SPS SPS SPS SPS SPS SPS SPS SPS SPS	MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV MUSTANG 115KV	300 300 300 300 300 300 300 300 300 300	0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994	-0.42943 -0.43006 -0.42619 -0.43261 -0.43 -0.43 -0.43003 -0.43001	9 9 9 9 9 9 9 9 9 9
WEPL           WEPL           AEPW           SPS           SPW           AEPW	SQUTH DODGE 115KV SOUTHWESTERN STATION 138KV' TOLK 230KV TUCUMCARI 115KV' TULSA POWER STATION 138KV' TULSA POWER STATION 69KV' WELEFKA 138KV' WELEFKA 138KV' WELESH 345KV WULKES 138KV	4.2 616 - 54.02521 15 - 256 - 80 - 162 - 84 - 428.5868 - 244 -	0.00051 0.00012 0.00375 0.00267 0.00006 0.00006 0.00009 0.00007 0.00006 0.00006	SPS SPS SPS SPS SPS SPS SPS SPS SPS SPS	MUSTANG 115KV	300 300 300 300 300 300 300 300 300 300	0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994	-0.42943 -0.43006 -0.42619 -0.43261 -0.43 -0.43 -0.43 -0.43001 -0.43 -0.43 -0.43	9 9 9 9 9 9 9 9 9 9 9 9
WEPL           WEPL           AEPW           SPS           AEPW           SPS           SPS           SPS	SOUTH DODGE 115KV SOUTHWESTEN STATION 138KV TOLK 230KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV TULSA POWER STATION 69KV WELEETKA 138KV WELETKA 138KV WELES 345KV CULKES 345KV ULKES 345KV CUNNINGHAM 115KV	4.2 616 - 54.02521 556 - 80 - 162 - 84 - 428.8688 - 244 - 181 -	0.00051 0.00012 0.00375 0.00267 0.00006 0.00006 0.00009 0.00007 0.00006 0.00006 0.00006 0.00006 0.00006 0.00006	SPS SPS SPS SPS SPS SPS SPS SPS SPS SPS	MUSTANG 115KV           MUSTANG 215KV           MUSTANG 215KV	300 300 300 300 300 300 300 300 300 300	0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994	-0.42943 -0.43006 -0.42619 -0.43261 -0.43 -0.43 -0.43001 -0.43001 -0.43 -0.43 -0.43 -0.43 -0.43	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 12
WEPL           WEPL           AEPW           SPS           SP           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           SPS           SPS           SPS           SPS	SOUTH DODGE 115KV SOUTHWESTERN STATION 138KV' TOLK 230KV' TULSA POWER STATION 138KV' TULSA POWER STATION 138KV' TULSA POWER STATION 69KV' WELEETKA 138KV' WELESTKA 138KV' WILKES 138KV' WILKES 138KV' CUNNINGHAM 115KV' CUNNINGHAM 115KV'	4.2 616 - 54.02521 256 - 80 - 162 - 44 428.5868 - 428.5868 - 181 - 181 - 181 -	0.00051 0.00012 0.00375 0.00267 0.00006 0.00006 0.00009 0.00007 0.00006 0.000006 0.000006 0.000006 0.000006 0.000006 0.000006 0.000006 0.000006 0.000006 0.000006 0.000006 0.000006 0.0006 0.0006 0.0006 0.0006 0.0005 0.005 0.	SPS SPS SPS SPS SPS SPS SPS SPS SPS SPS	MUSTANG 115KV           MUSTANG 200V           MUSTANG 200V	300 300 300 300 300 300 300 300 300 300	0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.45058	-0.42943 -0.43006 -0.42619 -0.43261 -0.43 -0.31213	9 9 9 9 9 9 9 9 9 9 9 9 9 12 12
WEPL           WEPL           AEPW           SPS           SPR           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           SPS           SPS           SPS           SPS           SPS           SPS           SPS	SOUTH DODGE 115KV SOUTHWESTEN STATION 138KV TOLK 230KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV WELEETKA 138KV WELEETKA 138KV WILKES 345KV CUNNIGHAM 115KV CUNNINGHAM 115KV CUNNINGHAM 115KV	4.2 616 - 54.02521 256 - 80 - 162 - 84 - 428.5868 - 244 - 181 - 181 - 181 - 181 - 75 -	0.00051 0.00012 0.00375 0.00267 0.00006 0.00006 0.00009 0.000007 0.00006 0.000006 0.0006 0.000	SPS SPS SPS SPS SPS SPS SPS SPS SPS SPS	NUSTANG         115KV           NUSTANG         115KV           NUSTANG         115KV           NUSTANG         115KV           NUSTANG         115KV           MUSTANG         20KV           MUSTANG         20KV	300 300 300 300 300 300 300 300 300 300	0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.5058 0.15058	-0.42943 -0.43006 -0.42619 -0.43261 -0.43 -0.31 -0.31213 -0.31513 -0.	9 9 9 9 9 9 9 9 9 9 9 9 9 9 12 12 12
WEPL           WEPL           AEPW           SPS           SPR           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           SPS	SOUTH DODGE 115KV SOUTHWESTEN STATION 138KV TOLK 230KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV TULSA POWER STATION 69KV WELEETKA 138KV WELETKA 138KV WELEST 345KV CUNNINGHAM 115KV CUNNINGHAM 115KV MADOX 115KV	4.2 616 - 54.02521 - 80 - 162 - 84 - 428.5868 - 244 - 181 - 181 - 181 - 181 - 75 -	0.00051 0.00012 0.00375 0.00267 0.00006 0.00000 0.00000 0.00006 0.00006 0.00006 0.00006 0.016155 0.16452 0.16452	SPS	NUSTANG 115KV           NUSTANG 115KV           NUSTANG 115KV           MUSTANG 206KV           MUSTANG 200KV           MUSTANG 200KV           MUSTANG 200KV           MUSTAS 0.200KV	300 300 300 300 300 300 300 300 300 300	0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.15058 0.15058 0.15058	-0.42943 -0.43006 -0.42619 -0.43261 -0.43 -0.43 -0.43001 -0.43 -0.43 -0.43 -0.43 -0.43 -0.43 -0.31213 -0.31213 -0.3151 -0.3151	9 9 9 9 9 9 9 9 9 9 9 9 9 9 12 12 12 12
WEPL           WEPL           AEPW           SPS           SPS           AEPW           AEPW           AEPW           AEPW           AEPW           SPS	SOUTH DODGE 115KV SOUTHWESTEN STATION 138KV TOLK 230KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV WELEETKA 138KV WELEETKA 138KV WILKES 345KV CUNNIGHAM 115KV CUNNINGHAM 115KV CUNNINGHAM 115KV	4.2 616 - 54.02521 - 256 - 80 - - 84 - 428.5868 - - 244 - - 181 - - 75 - - 150 - -	0.00051 0.00012 0.00375 0.00267 0.00006 0.00006 0.00000 0.000006 0.00006 0.00006 0.00006 0.00006 0.00006 0.00006 0.00006 0.00006 0.00005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0	SPS	MUSTANG         115KV           MUSTANG         20KV           MUSTANG         20KV           MUSTANG         115KV           MUSTANG         115KV           MUSTANG         115KV	300 300 300 300 300 300 300 300 300 300	0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.15058 0.15058 0.15058	-0.42943 -0.43006 -0.42619 -0.43261 -0.43 -0.31 -0.31213 -0.31513 -0.	9 9 9 9 9 9 9 9 9 9 9 9 9 9 12 12 12
WEPL           WEPL           AEPW           SPS           SPS           AEPW           AEPW           AEPW           AEPW           AEPW           SPS	SOUTH DODGE 115KV SOUTHWESTEN STATION 138KV TOLK 230KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV TULSA POWER STATION 69KV WELEETKA 138KV WELETKA 138KV WELEST 345KV CUNNINGHAM 115KV CUNNINGHAM 115KV MADOX 115KV	4.2 616 - 54.02521 - 256 - 80 - - 84 - 428.5868 - - 244 - - 181 - - 75 - - 150 - -	0.00051 0.00012 0.00375 0.00267 0.00006 0.00006 0.00000 0.000006 0.00006 0.00006 0.00006 0.00006 0.00006 0.00006 0.00006 0.00006 0.00005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0	SPS	NUSTANG 115KV           NUSTANG 115KV           NUSTANG 115KV           MUSTANG 206KV           MUSTANG 200KV           MUSTANG 200KV           MUSTANG 200KV           MUSTAS 0.200KV	300 300 300 300 300 300 300 300 300 300	0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.15058 0.15058 0.15058 0.42994	-0.42943 -0.43006 -0.42619 -0.43261 -0.43 -0.43 -0.43001 -0.43 -0.43 -0.43 -0.43 -0.43 -0.43 -0.31213 -0.31213 -0.3151 -0.3151	9 9 9 9 9 9 9 9 9 9 9 9 9 9 12 12 12 12
WEPL           WEPL           AEPW           SPS           SPS           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           SPS	SOUTH DODGE 115KV SOUTHWESTERN STATION 138KV TOLK 230KV TUCUMCARI 115KV TULSA POWER STATION 138KV TULSA POWER STATION 69KV WELEETKA 138KV WELEETKA 138KV WULKES 138KV WULKES 345KV CUNNINGHAM 115KV CUNNINGHAM 115KV CUNNINGHAM 115KV MADOX 115KV MADOX 115KV MADOX 115KV MADOX 115KV	4.2 616 - 54.02521 256 - 80 - 162 - 84 - 428.5868 - 181 - 181 - 181 - 181 - 75 - 150 - 150 - 150 -	0.00051 0.00375 0.00375 0.00267 0.00006 0.00006 0.00006 0.000006 0.00006 0.00006 0.00006 0.00006 0.16155 0.16452 0.16452 0.15058 0.015058 0.0552	SPS	NUSTANG 115KV           NUSTANG 115KV           NUSTANG 115KV           MUSTANG 200KV           MUSTANG 115L0 200KV           MUSTANG 115KV           MUSTANG 115KV           MUSTANG 200KV           MUSTANG 115KV	300 300 300 300 300 300 300 300 300 300	0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.15058 0.15058 0.15058 0.15058 0.42994 0.15058	-0.42943 -0.43006 -0.42619 -0.43261 -0.43 -0.43 -0.43001 -0.43 -0.43 -0.43 -0.43 -0.31213 -0.31213 -0.3151 -0.27936 -0.2271	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
WEPL           WEPL           AEPW           SPS           SPM           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           SPS	SOUTH DODGE 115KV SOUTHWESTENN STATION 138KV TOLK 230KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV ULSA POWER STATION 138KV WELEST 345KV WILKES 138KV WILKES 138KV CUNNINGHAM 115KV CUNNINGHAM 115KV CUNNINGHAM 115KV MADOX 115KV MADOX 115KV MADOX 115KV MADOX 115KV CARLSBAD 69KV	4 2           616           54.02521           15           2566           80           1162           428.5668           244           1811           1811           755           150           150           181	0.00051 0.00012 0.00375 0.000267 0.00006 0.00006 0.00009 0.00006 0.00006 0.00006 0.00006 0.016155 0.16452 0.16452 0.16452 0.15058 0.007652 0.007652	SPS	NUSTANG         115KV           MUSTANG         115KV           MUSTANG         115KV           MUSTANG         115KV           MUSTANG         206V           MUSTANG         206V           MUSTANG         206V           MUSTANG         115KV           MUSTANG         206V           MUSTANG         115KV           MUSTANG         206V           MUSTANG         206V           MUSTANG         206V	300 300 300 300 300 300 300 300 300 300	0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.15058 0.15058 0.15058 0.42994 0.15058	-0.42943 -0.43006 -0.42619 -0.43261 -0.43 -0.43 -0.43001 -0.43001 -0.43001 -0.43 -0.43001 -0.31213 -0.31213 -0.3151 -0.3151 -0.27936 -0.22271	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
WEPL           WEPL           AEPW           SPS           SPS           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           SPS	SOUTH DODGE 115KV SOUTHWESTERN STATION 138KV TOLK 230KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV TULSA POWER STATION 69KV WELEETKA 138KV WELETKA 138KV WULKES 138KV UNLKES 138KV CUNNINGHAM 115KV CUNNINGHAM 115KV MADOX 115KV MADOX 115KV MADOX 115KV CUNNINGHAM 115KV CONSTRUCTION C	4 2           616           54.02521           15           2566           800           162           84           244           181           181           181           161           175           150           18           18           18           118           118           110	0.00051 0.00012 0.00375 0.000267 0.00006 0.000009 0.000006 0.000006 0.000006 0.016155 0.16452 0.16452 0.16452 0.16452 0.15058 0.007652 0.007301	SPS	NUSTANG         15KV           NUSTANG         15KV           NUSTANG         15KV           MUSTANG         20KV           MUSTAG         20KV	300 300 300 300 300 300 300 300 300 300	0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.15058 0.15058 0.15058 0.15058 0.15058	-0.42943 -0.43006 -0.42619 -0.43261 -0.43261 -0.433 -0.433 -0.43001 -0.430 -0.43001 -0.430 -0.43001 -0.430 -0.43001 -0.43001 -0.43001 -0.43001 -0.43001 -0.42012 -0.22712 -0.22712 -0.22271 -0.22271 -0.22259 -0.22259 -0.22259 -0.22271 -0.22259 -0.22559 -0.25559 -0.2	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
WEPL           WEPL           AEPW           SPS           SPM           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           SPS	SOUTH DODGE 115KV SOUTHWESTENN STATION 138KV TOLK 230KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV WELEST 345KV WELEST 345KV WULKES 138KV WULKES 138KV CUNNINGHAM 115KV CUNNINGHAM 115KV CUNNINGHAM 115KV MADOX 115KV MADOX 115KV MADOX 115KV CONNINGHAM 120KV CARLSBAD 69KV CUNNINGHAM 230KV CUNNINGHAM 230KV	4 22 616 - 54.02521 5 - 256 - 800 - 80	0.00051 0.00012 0.00267 0.00267 0.00006 0.00006 0.00000 0.00000 0.000006 0.000006 0.000006 0.000006 0.000006 0.016155 0.16155 0.16155 0.16452 0.16452 0.07652 0.07652 0.07301	SPS           SPS      SPS      SPS	NUSTANG 115KV           MUSTANG 115KV           MUSTANG 200KV           MUSTANG 200KV           MUSTANG 200KV           MUSTANG 115KV           MUSTANG 115KV           MUSTANG 200KV	300 300 300 300 300 300 300 300 300 300	0.42994 0.42956 0.150580 0.150580 0.150580 0.150580 0.150580 0.150580 0.150580 0.150580 0.150580 0.150580 0.150580 0.150580 0.150580 0.150580 0.150580 0.150580 0.15058000000000000000000000000000000000	-0.42943 -0.43006 -0.42619 -0.42619 -0.43261 -0.433 -0.433 -0.433 -0.433 -0.433 -0.433 -0.433 -0.433 -0.433 -0.31213 -0.31213 -0.31213 -0.3151 -0.2734 -0.2271 -0.222359 -0.22359	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
WEPL           WEPL           AEPW           SPS           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           SPS	SOUTH DODGE 115KV SOUTHWESTERN STATION 138KV TOLK 230KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV TULSA POWER STATION 69KV WELEETKA 138KV WELETKA 138KV WELESTKA 138KV UKLKS 138KV CUNNINGHAM 115KV TUNNIGHAM 115KV TUNDOX 115KV MADOX 115KV MADOX 115KV CUNNINGHAM 230KV CARLSBAD 69KV CUNNINGHAM 230KV CUNNINGHAM 230KV CUNNINGHAM 135KV	4 2           616           54.02521           15           256           80           41           81           425.5868           244           75           150           151           150           161           175           150           161           181           110           1101           181	0.00051 0.00012 0.00375 0.000267 0.00006 0.000006 0.000006 0.000006 0.000006 0.16155 0.16155 0.16155 0.16452 0.15058 0.07652 0.07652 0.07301 0.07301 0.07301	SPS           SPS <td>MUSTANG         115KV           MUSTANG         20KV           MUSTANG         115KV           MUSTANG         20KV           MUSTANG         20KV</td> <td>300 300 300 300 300 300 300 300 300 300</td> <td>0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058</td> <td>-0.42943 -0.43006 -0.42619 -0.43261 -0.432 -0.43 -0.43 -0.43 -0.43 -0.43003 -0.43003 -0.43003 -0.4300 -0.43 -0.31213 -0.31213 -0.31511 -0.27936 -0.2271 -0.22739 -0.22359 -0.22359 -0.22359 -0.16593</td> <td>9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9</td>	MUSTANG         115KV           MUSTANG         20KV           MUSTANG         115KV           MUSTANG         20KV	300 300 300 300 300 300 300 300 300 300	0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058	-0.42943 -0.43006 -0.42619 -0.43261 -0.432 -0.43 -0.43 -0.43 -0.43 -0.43003 -0.43003 -0.43003 -0.4300 -0.43 -0.31213 -0.31213 -0.31511 -0.27936 -0.2271 -0.22739 -0.22359 -0.22359 -0.22359 -0.16593	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
WEPL           WEPL           AEPW           SPS           SPM           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           SPS	SOUTH DODGE 115KV SOUTHWESTENN STATION 138KV TOLK 230KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV WELEST 345KV WELEST 345KV WILKES 138KV WULKES 138KV CUNNINGHAM 115KV CUNNINGHAM 115KV MADOX 115KV MADOX 115KV CUNNINGHAM 115KV CONNINGHAM 115KV CUNNINGHAM 230KV CUNNINGHAM 230KV CUNNINGHAM 135KV CUNNINGHAM 135KV CUNNINGHAM 135KV	4 22 616 - 54.02521 5 - 286 - 80 - 84 - 428.5888 - 448.5888 - 448.5888 - 181 - 181 - 185 -	0.00051 0.00012 0.00267 0.00267 0.00006 0.00009 0.00009 0.00006 0.00006 0.00006 0.00006 0.00006 0.016155 0.16452 0.07652 0.07652 0.07652 0.07652 0.07301 0.016155 0.07652 0.07301 0.07652 0.07301 0.016155 0.16155 0.07652 0.07652 0.07652 0.07652 0.07652 0.07652 0.016155 0.16155 0.07652 0.07652 0.07652 0.07652 0.016155 0.16155 0.07652 0.07652 0.07652 0.016155 0.16155 0.07652 0.07652 0.07652 0.016155 0.16155 0.07652 0.07652 0.07652 0.07652 0.016155 0.016155 0.07652 0.07652 0.07652 0.016155 0.016155 0.07652 0.07652 0.07652 0.016155 0.016155 0.07652 0.07652 0.016155 0.016155 0.016155 0.07652 0.07652 0.016155 0.01655 0.01655 0.01655 0.01655 0.0165	SPS           SPS      SPS	NUSTANG         115KV           MUSTANG         115KV           MUSTANG         115KV           MUSTANG         115KV           MUSTANG         206V	300 300 300 300 300 300 300 300 300 300	0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058	-0.42943 -0.43006 -0.42619 -0.43261 -0.432 -0.433 -0.43003 -0.43003 -0.43003 -0.43003 -0.43001 -0.43 -0.31213 -0.31213 -0.31213 -0.31511 -0.27396 -0.22711 -0.22719 -0.22359 -0.22359 -0.22359 -0.16593 -0.16593	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
WEPL           WEPL           AEPW           SPS           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           SPS	SOUTH DODGE 115KV SOUTHWESTEN STATION 138KV TOLK 236KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV TULSA POWER STATION 69KV WELEETKA 138KV WELETKA 138KV WELETKS 345KV CUNNIGHAM 135KV CUNNIGHAM 115KV MADOX 115KV MADOX 115KV MADOX 115KV CARLSBAD 69KV CARLSBAD 69KV CUNNIGHAM 230KV CUNNIGHAM 230KV CUNNIGHAM 115KV MADOX 155KV	4 2           616           54.02521           15           256           80           41           81           425.5868           244           75           150           181           75	0.00051 0.00012 0.00267 0.00267 0.00006 0.00006 0.00009 0.00007 0.00006 0.016155 0.16452 0.15058 0.07652 0.07652 0.07652 0.07301 0.07301 0.07301 0.07301 0.016155 0.016455	SPS	MUSTANG 115KV           MUSTANG 20KV           MUSTANG 20KV <td< td=""><td>3000 300 300 300 300 300 300 300 300 30</td><td>0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.00035 0.00035</td><td>-0.42943 -0.43006 -0.42619 -0.43261 -0.433 -0.43 -0.43 -0.43 -0.430 -0.430 -0.430 -0.430 -0.430 -0.31213 -0.31213 -0.3151 -0.271936 -0.2271 -0.22359 -0.22359 -0.22359 -0.22359 -0.16593 -0.1653</td><td>9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9</td></td<>	3000 300 300 300 300 300 300 300 300 30	0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.00035 0.00035	-0.42943 -0.43006 -0.42619 -0.43261 -0.433 -0.43 -0.43 -0.43 -0.430 -0.430 -0.430 -0.430 -0.430 -0.31213 -0.31213 -0.3151 -0.271936 -0.2271 -0.22359 -0.22359 -0.22359 -0.22359 -0.16593 -0.1653	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
WEPL           WEPL           AEPW           SPS           SPS           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           SPS	SOUTH DODGE 115KV SOUTHWESTENN STATION 138KV TOLK 230KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV WELSE 318KV WELSE 345KV GUIST GUIS	42           616           54.02521           15           266           80           162           84           428.5868           44           428.5864           81           181           75           150           162           181           181           181           181           181           181           181           181           181           181           75	0.00051 0.00012 0.00267 0.00267 0.00006 0.00006 0.00000000	SPS           SPS      SPS      SPS	MUSTANG 115KV           MUSTANG 200KV           MUSTANG 115KV           MUSTANG 115KV           MUSTANG 200KV           MUSTANG 200KV           MUSTANG 115KV           MUSTANG 200KV	300 300 300 300 300 300 300 300 300 300	0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.000375 0.000375	-0.42943 -0.42619 -0.42619 -0.42619 -0.42619 -0.433 -0.43003 -0.43003 -0.43003 -0.43001 -0.43003 -0.43001 -0.43001 -0.43001 -0.43001 -0.43001 -0.43001 -0.2711 -0.2719 -0.22359 -0.22359 -0.16533 -0.16533 -0.16447 -0.16447	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
WEPL           WEPL           AEPW           SPS           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           SPS	SOUTH DODGE 115KV SOUTHWESTEN STATION 138KV TOLK 236KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV TULSA POWER STATION 69KV WELEETKA 138KV WELETKA 138KV WELETKS 345KV CUNNIGHAM 135KV CUNNIGHAM 115KV MADOX 115KV MADOX 115KV MADOX 115KV CARLSBAD 69KV CARLSBAD 69KV CUNNIGHAM 230KV CUNNIGHAM 230KV CUNNIGHAM 115KV MADOX 155KV	42           616           54.02521           15           266           80           162           84           428.5868           44           428.5864           81           181           75           150           162           181           181           181           181           181           181           181           181           181           181           75	0.00051 0.00012 0.00267 0.00267 0.00006 0.00006 0.00009 0.00007 0.00006 0.016155 0.16452 0.15058 0.07652 0.07652 0.07652 0.07301 0.07301 0.07301 0.07301 0.016155 0.016455	SPS           SPS      SPS      SPS	MUSTANG 115KV           MUSTANG 20KV           MUSTANG 20KV <td< td=""><td>3000 300 300 300 300 300 300 300 300 30</td><td>0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.00035 0.00035</td><td>-0.42943 -0.43006 -0.42619 -0.43261 -0.433 -0.43 -0.43 -0.43 -0.430 -0.430 -0.430 -0.430 -0.430 -0.31213 -0.31213 -0.3151 -0.271936 -0.2271 -0.22359 -0.22359 -0.22359 -0.22359 -0.16593 -0.1653</td><td>9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9</td></td<>	3000 300 300 300 300 300 300 300 300 30	0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.00035 0.00035	-0.42943 -0.43006 -0.42619 -0.43261 -0.433 -0.43 -0.43 -0.43 -0.430 -0.430 -0.430 -0.430 -0.430 -0.31213 -0.31213 -0.3151 -0.271936 -0.2271 -0.22359 -0.22359 -0.22359 -0.22359 -0.16593 -0.1653	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
WEPL           WEPL           AEPW           SPS           SPS           AEPW           AEPW           AEPW           AEPW           AEPW           SPS           SPS </td <td>SOUTH DODGE 115KV SOUTHWESTEN STATION 138KV TOLK 230KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV WELETKA 138KV WELETKA 138KV WULKES 345KV CUNNINGHAM 15KV CUNNINGHAM 115KV CUNNINGHAM 115KV MADOX 115KV MADOX 115KV CUNNINGHAM 230KV CUNNINGHAM 230KV CUNNINGHAM 135KV CUNNINGHAM 155KV MADOX 115KV MADOX 115KV</td> <td>4 2           616           54.02521           15           256           40           80           41           425.5688           244           75           150           161           755           150           181           181           181           181           181           181           181           181           75           75           75           75           75           75           75           75           75           75</td> <td>0.00051 0.00072 0.00075 0.00267 0.00006 0.00006 0.00000 0.00000 0.00000 0.00000 0.00000 0.16155 0.16155 0.16452 0.07652 0.07652 0.07301 0.07652 0.07655 0.16155 0.16452 0.16452 0.16452 0.16452</td> <td>SPS           SPS           SPS      SPS</td> <td>MUSTANG 115KV           MUSTANG 215KV           MUSTANG 20KV           <td< td=""><td>3000 300 300 300 300 300 300 300 300 30</td><td>0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.00035 0.00035 0.00004</td><td>-0.42943 -0.43006 -0.42619 -0.42619 -0.433 -0.43 -0.31213 -0.3151 -0.22519 -0.2255 -0.225 -0.2255 -0.2555</td><td>9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9</td></td<></td>	SOUTH DODGE 115KV SOUTHWESTEN STATION 138KV TOLK 230KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV WELETKA 138KV WELETKA 138KV WULKES 345KV CUNNINGHAM 15KV CUNNINGHAM 115KV CUNNINGHAM 115KV MADOX 115KV MADOX 115KV CUNNINGHAM 230KV CUNNINGHAM 230KV CUNNINGHAM 135KV CUNNINGHAM 155KV MADOX 115KV MADOX 115KV	4 2           616           54.02521           15           256           40           80           41           425.5688           244           75           150           161           755           150           181           181           181           181           181           181           181           181           75           75           75           75           75           75           75           75           75           75	0.00051 0.00072 0.00075 0.00267 0.00006 0.00006 0.00000 0.00000 0.00000 0.00000 0.00000 0.16155 0.16155 0.16452 0.07652 0.07652 0.07301 0.07652 0.07655 0.16155 0.16452 0.16452 0.16452 0.16452	SPS           SPS      SPS	MUSTANG 115KV           MUSTANG 215KV           MUSTANG 20KV           MUSTANG 20KV <td< td=""><td>3000 300 300 300 300 300 300 300 300 30</td><td>0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.00035 0.00035 0.00004</td><td>-0.42943 -0.43006 -0.42619 -0.42619 -0.433 -0.43 -0.31213 -0.3151 -0.22519 -0.2255 -0.225 -0.2255 -0.2555</td><td>9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9</td></td<>	3000 300 300 300 300 300 300 300 300 30	0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.00035 0.00035 0.00004	-0.42943 -0.43006 -0.42619 -0.42619 -0.433 -0.43 -0.31213 -0.3151 -0.22519 -0.2255 -0.225 -0.2255 -0.2555	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
WEPL           WEPL           AEPW           SPS           SPR           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           SPS	SOUTH DODGE 115KV SOUTHWESTENN STATION 138KV TOLK 230KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV WELSE STAREN WELSE STAREN WELSE STAREN WILKES 345KV CUNNINGHAM 115KV CUNNINGHAM 115KV CUNNINGHAM 115KV CUNNINGHAM 230KV CARLSBAD 65KV CUNNINGHAM 230KV CUNNINGHAM 230KV CUNNINGHAM 15KV CUNNINGHAM 15KV CUNNINGHAM 15KV CUNNINGHAM 15KV CUNNINGHAM 15KV CUNNINGHAM 15KV CUNNINGHAM 15KV MADOX 115KV MADOX 115K	42           616           54.02521           15           266           80           162           84           428.5868           244           181           75           150           181           181           181           181           181           181           181           181           181           181           181           75           75           75           75	0.00051 0.00072 0.00075 0.00267 0.00006 0.00009 0.00006 0.00006 0.00006 0.00006 0.00006 0.00006 0.00006 0.016155 0.16452 0.07652 0.07652 0.07301 0.07301 0.07301 0.07301 0.07305 0.07652 0.	SPS           SPS      SPS      SPS	MUSTANG 115KV           MUSTANG 200KV           MUSTAG 200KV           MUSTANG 200KV     <	300 300 300 300 300 300 300 300 300 300	0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.00035 0.00037 0.00004 0.00035	-0.42943 -0.42019 -0.42619 -0.42619 -0.4261 -0.43261 -0.433 -0.43003 -0.43003 -0.43003 -0.43003 -0.43003 -0.43003 -0.43003 -0.43003 -0.43003 -0.43003 -0.4300 -0.27916 -0.22711 -0.22711 -0.22711 -0.22359 -0.16533 -0.16533 -0.16543 -0.16448 -0.166448	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
WEPL           WEPL           AEPW           SPS           SPS           AEPW           AEPW           AEPW           AEPW           AEPW           SPS           SPS </td <td>SOUTH DODGE 115KV SOUTHWESTEN STATION 138KV TOLK 230KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV WELETKA 138KV WELETKA 138KV WELETKA 138KV CUNNINGHAM 15KV CUNNINGHAM 115KV CUNNINGHAM 115KV MADOX 115KV MADOX 115KV CUNNINGHAM 230KV CUNNINGHAM 230KV CUNNINGHAM 230KV CUNNINGHAM 125KV CUNNINGHAM 135KV CUNNINGHAM 135KV MADOX 115KV MADOX 115KV MADOX 115KV</td> <td>4 2         616         -           616         -         54.02521           15         -         256         -           162         -         -         68         -           162         -         -         68         -         -           162         -         -         68         -         -         -         -         68         -&lt;</td> <td>0.00051 0.00072 0.00075 0.00267 0.0006 0.00006 0.00009 0.00006 0.00006 0.16155 0.16155 0.16452 0.07652 0.06452 0.16452 0.16452 0.16452 0.16452 0.16452 0.16452 0.16452 0.06552 0.065552 0.065552 0.065552 0</td> <td>SPS           SPS           SPS</td> <td>MUSTANG 115KV           MUSTANG 20KV           MUSTANG 20KV</td> <td>3000 300 300 300 300 300 300 300 300 30</td> <td>0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.00035 0.00035 0.00004 0.00004 0.00004</td> <td>-0.42943 -0.43006 -0.42619 -0.42619 -0.43261 -0.433 -0.430 -0.43001 -0.430 -0.43001 -0.430 -0.4300 -0.430 -0.430 -0.430 -0.31213 -0.3151 -0.27936 -0.31213 -0.3151 -0.22719 -0.22359 -0.16593 -0.16448 -0.16448 -0.16448 -0.16682 -0.16682 -0.16682</td> <td>9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9</td>	SOUTH DODGE 115KV SOUTHWESTEN STATION 138KV TOLK 230KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV WELETKA 138KV WELETKA 138KV WELETKA 138KV CUNNINGHAM 15KV CUNNINGHAM 115KV CUNNINGHAM 115KV MADOX 115KV MADOX 115KV CUNNINGHAM 230KV CUNNINGHAM 230KV CUNNINGHAM 230KV CUNNINGHAM 125KV CUNNINGHAM 135KV CUNNINGHAM 135KV MADOX 115KV MADOX 115KV MADOX 115KV	4 2         616         -           616         -         54.02521           15         -         256         -           162         -         -         68         -           162         -         -         68         -         -           162         -         -         68         -         -         -         -         68         -<	0.00051 0.00072 0.00075 0.00267 0.0006 0.00006 0.00009 0.00006 0.00006 0.16155 0.16155 0.16452 0.07652 0.06452 0.16452 0.16452 0.16452 0.16452 0.16452 0.16452 0.16452 0.06552 0.065552 0.065552 0.065552 0	SPS	MUSTANG 115KV           MUSTANG 20KV	3000 300 300 300 300 300 300 300 300 30	0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.00035 0.00035 0.00004 0.00004 0.00004	-0.42943 -0.43006 -0.42619 -0.42619 -0.43261 -0.433 -0.430 -0.43001 -0.430 -0.43001 -0.430 -0.4300 -0.430 -0.430 -0.430 -0.31213 -0.3151 -0.27936 -0.31213 -0.3151 -0.22719 -0.22359 -0.16593 -0.16448 -0.16448 -0.16448 -0.16682 -0.16682 -0.16682	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
WEPL           WEPL           AEPW           SPS           SPR           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           SPS	SOUTH DODGE 115KV SOUTHWESTENN STATION 138KV TOLK 230KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV WELESTKA 138KV WELEST 345KV WILKES 138KV WULKES 345KV CUNNINGHAM 115KV CUNNINGHAM 115KV CUNNINGHAM 115KV CUNNINGHAM 230KV CARLSBAD 65KV CUNNINGHAM 230KV CUNNINGHAM 230KV CUNNINGHAM 115KV CUNNINGHAM 115KV CUNNINGHAM 115KV CUNNINGHAM 115KV CUNNINGHAM 115KV MADOX 115KV	42           616           54.0551           15           266           80           162           84           428.5868           244           1811           1811           1811           1811           1811           181           181           181           181           181           181           181           181           181           181           76           75           75           75           75           75           75           75           75           75	0.00051 0.00072 0.00375 0.00267 0.00006 0.00006 0.00009 0.00006 0.00006 0.00006 0.00006 0.00006 0.016155 0.16452 0.07652 0.07652 0.07652 0.07652 0.07301 0.07301 0.07301 0.07301 0.07301 0.07301 0.016155 0.16452 0	SPS           SPS      SPS      SPS	MUSTANG 115KV           MUSTANG 206KV	300 300 300 300 300 300 300 300 300 300	0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.00033 0.00004 0.00004 0.000013 0.000013	-0.42943 -0.43066 -0.42819 -0.43261 -0.43 -0.43 -0.43 -0.43 -0.43 -0.43 -0.43 -0.43 -0.43 -0.43 -0.43 -0.43 -0.31213 -0.31213 -0.31213 -0.31213 -0.3151 -0.2273 -0.22359 -0.1653 -0.1653 -0.16548 -0.16448 -0.16445 -0.16445 -0.16445	9         9           9         9           9         9           9         9           9         9           9         9           9         9           12         12           12         12           13         16           16         16           17         22           22         22
WEPL           WEPL           AEPW           SPS           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           SPS           SPS     <	SOUTH DODGE 115KV SOUTHWESTEN STATION 138KV TOLK 230KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV WELEETKA 138KV WELETKA 138KV WELESTKA 138KV CUNNIGHAM 135KV CUNNIGHAM 115KV CUNNIGHAM 115KV MADOX 115KV MADOX 115KV CUNNIGHAM 230KV CUNNIGHAM 230KV CUNNIGHAM 230KV CUNNIGHAM 230KV CUNNIGHAM 135KV MADOX 115KV MADOX 115KV	4 21           616           54.02521           15           2566           80           41           81           425.5688           244           181           75           1500           181           181           181           181           181           181           181           181           181           181           181           181           181           75           75           75           75           75           75           75           75           75           75           75           75           75	0.00051 0.00072 0.00075 0.000267 0.00006 0.00009 0.00006 0.00007 0.00006 0.00007 0.00006 0.016155 0.16155 0.16452 0.07652 0.07652 0.07652 0.07652 0.07652 0.07052 0.07052 0.07052 0.07052 0.07652 0	SPS           SPS      SPS      SPS	MUSTANG 115KV           MUSTANG 20KV	3000 300 300 300 300 300 300 300 300 30	0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.00035 0.000043 0.000013 0.000013 0.000013	0.42943 0.43066 0.43066 0.42619 0.43261 0.433 0.43001 0.43001 0.43001 0.43001 0.43001 0.430 0.430 0.430 0.430 0.430 0.430 0.433 0.433 0.433 0.433 0.433 0.433 0.433 0.3151 0.2271 0.2271 0.22359 0.16593 0.16448 0.016448 0.16448 0.16448	9         9           9         9           9         9           9         9           9         9           9         9           12         12
WEPL           WEPL           AEPW           SPS           SPR           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           SPS           SPS      SPS           SPS <tr< td=""><td>SOUTH DODGE 115KV SOUTHWESTENN STATION 138KV TOLK 230KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV WELESTKA 138KV WELESTKA 138KV WELEST 35KV WILKES 345KV CUNNINGHAM 115KV CUNNINGHAM 115KV CUNNINGHAM 115KV CUNNINGHAM 15KV CUNNINGHAM 230KV CARLSBAD 68KV CARLSBAD 68KV CARLSBAD 68KV CUNNINGHAM 135KV CUNNINGHAM 135KV MADOX 115KV MADOX 115KV M</td><td><math display="block">\begin{array}{c c} 4.2\\ 616\\ -616\\ -54.02521\\ -54.02521\\ -54.02521\\ -54.02521\\ -54.02521\\ -54.02521\\ -84.0252\\ -84.025\\ -</math></td><td>0.00051 0.00072 0.00072 0.00072 0.00075 0.000075 0.00007 0.00000 0.00007 0.00007 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000</td><td>SPS         SPS           SPS         SPS           SPS</td><td>MUSTANG 115KV           MUSTANG 200KV           MUSTANG 200KV</td><td>3000 300 300 300 300 300 300 300 300 30</td><td>0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.15058 0.15058 0.15058 0.15058 0.15058 0.000375 0.000375 0.00004 0.00004 0.00013 0.000013</td><td><math display="block">\begin{array}{c} 0.42943\\ -0.43006\\ -0.43066\\ -0.42819\\ -0.43261\\ -0.43\\ -0.43\\ -0.43\\ -0.43\\ -0.43\\ -0.43\\ -0.43\\ -0.43\\ -0.43\\ -0.43\\ -0.31213\\ -0.31213\\ -0.31213\\ -0.31213\\ -0.31511\\ -0.2271\\ -0.2271\\ -0.22359\\ -0.1653\\ -0.1653\\ -0.1653\\ -0.16542\\ -0.16448\\ -0.16448\\ -0.164425\\ -0.16442\\ -0.16425\\ -0.16442\\ -0.16425\\ -0.16442\\ -0.16425\\ -0.16442\\ -0.16425\\ -0.16442\\ -0.16425\\ -0.16442\\ -0.16425\\ -0.16442\\ -0.1642</math></td><td>9         9           9         9           9         9           9         9           9         9           9         9           9         9           9         9           9         9           9         9           12         12           12         13           16         16           17         17           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           23         24           25         22</td></tr<>	SOUTH DODGE 115KV SOUTHWESTENN STATION 138KV TOLK 230KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV WELESTKA 138KV WELESTKA 138KV WELEST 35KV WILKES 345KV CUNNINGHAM 115KV CUNNINGHAM 115KV CUNNINGHAM 115KV CUNNINGHAM 15KV CUNNINGHAM 230KV CARLSBAD 68KV CARLSBAD 68KV CARLSBAD 68KV CUNNINGHAM 135KV CUNNINGHAM 135KV MADOX 115KV MADOX 115KV M	$\begin{array}{c c} 4.2\\ 616\\ -616\\ -54.02521\\ -54.02521\\ -54.02521\\ -54.02521\\ -54.02521\\ -54.02521\\ -84.0252\\ -84.025\\ -$	0.00051 0.00072 0.00072 0.00072 0.00075 0.000075 0.00007 0.00000 0.00007 0.00007 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000	SPS         SPS           SPS	MUSTANG 115KV           MUSTANG 200KV	3000 300 300 300 300 300 300 300 300 30	0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.15058 0.15058 0.15058 0.15058 0.15058 0.000375 0.000375 0.00004 0.00004 0.00013 0.000013	$\begin{array}{c} 0.42943\\ -0.43006\\ -0.43066\\ -0.42819\\ -0.43261\\ -0.43\\ -0.43\\ -0.43\\ -0.43\\ -0.43\\ -0.43\\ -0.43\\ -0.43\\ -0.43\\ -0.43\\ -0.31213\\ -0.31213\\ -0.31213\\ -0.31213\\ -0.31511\\ -0.2271\\ -0.2271\\ -0.22359\\ -0.1653\\ -0.1653\\ -0.1653\\ -0.16542\\ -0.16448\\ -0.16448\\ -0.164425\\ -0.16442\\ -0.16425\\ -0.16442\\ -0.16425\\ -0.16442\\ -0.16425\\ -0.16442\\ -0.16425\\ -0.16442\\ -0.16425\\ -0.16442\\ -0.16425\\ -0.16442\\ -0.1642$	9         9           9         9           9         9           9         9           9         9           9         9           9         9           9         9           9         9           9         9           12         12           12         13           16         16           17         17           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           23         24           25         22
WEPL           WEPL           AEPW           SPS           SPS           AEPW           AEPW           AEPW           AEPW           AEPW           SPS           SPS </td <td>SOUTH DODGE 115KV SOUTHWESTEN STATION 138KV TOLK 230KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV WELETKA 138KV WELETKA 138KV WELETKA 138KV CULSA POWER STATION 96KV WELETKA 138KV CULSA 135KV CUNNIGHAM 115KV CUNNIGHAM 115KV CUNNIGHAM 115KV CUNNIGHAM 230KV CUNNIGHAM 230KV CUNNIGHAM 230KV CUNNIGHAM 230KV CUNNIGHAM 135KV CUNNIGHAM 115KV MADOX 115KV</td> <td>42           616           54.02521           15           256           80           162           405.0521           426.5688           244           181           755           1500           181           181           181           181           181           181           181           191           191           191           181           765           765           775           775           775           775           775           775           775           775           775           775           775           775           775           775           775</td> <td>0.00051 0.00375 0.00375 0.00375 0.00375 0.00375 0.00375 0.00375 0.00006 0.0006 0.000</td> <td>SPS         SPS           SPS         SPS           WEPL         AEPW           AEPW         AEPW           SPS         SPS</td> <td>MUSTANG 115KV           MUSTANG 20KV           MUSTANG 105 20KV           MUSTANG 105 20KV           COLK 20KV           ZOKV           MUSTANG 115KV           COLFON 115 461KV           <t< td=""><td>3000 300 300 300 300 300 300 300 300 30</td><td>0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.00035 0.00035 0.00004 0.00013 0.00013 0.00013 0.00015 0.00004</td><td><math display="block">\begin{array}{c} 0.42943\\ -0.43006\\ -0.43061\\ -0.432619\\ -0.432619\\ -0.43261\\ -0.430\\ -0.43001\\ -0.43\\ -0.43\\ -0.43\\ -0.31213\\ -0.31213\\ -0.3151\\ -0.3151\\ -0.2734\\ -0.2271\\ -0.22359\\ -0.16593\\ -0.16487\\ -0.16448\\ -0.16487\\ -0.16448\\ -0.16682\\ -0.16448\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.</math></td><td>9         9           9         9           9         9           9         9           9         9           9         9           12         12           12         12           12         12           12         12           12         12           12         12           12         12           12         12           12         12           12         12           12         12           12         12           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22</td></t<></td>	SOUTH DODGE 115KV SOUTHWESTEN STATION 138KV TOLK 230KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV WELETKA 138KV WELETKA 138KV WELETKA 138KV CULSA POWER STATION 96KV WELETKA 138KV CULSA 135KV CUNNIGHAM 115KV CUNNIGHAM 115KV CUNNIGHAM 115KV CUNNIGHAM 230KV CUNNIGHAM 230KV CUNNIGHAM 230KV CUNNIGHAM 230KV CUNNIGHAM 135KV CUNNIGHAM 115KV MADOX 115KV	42           616           54.02521           15           256           80           162           405.0521           426.5688           244           181           755           1500           181           181           181           181           181           181           181           191           191           191           181           765           765           775           775           775           775           775           775           775           775           775           775           775           775           775           775           775	0.00051 0.00375 0.00375 0.00375 0.00375 0.00375 0.00375 0.00375 0.00006 0.0006 0.000	SPS         SPS           WEPL         AEPW           AEPW         AEPW           SPS         SPS	MUSTANG 115KV           MUSTANG 20KV           MUSTANG 105 20KV           MUSTANG 105 20KV           COLK 20KV           ZOKV           MUSTANG 115KV           COLFON 115 461KV <t< td=""><td>3000 300 300 300 300 300 300 300 300 30</td><td>0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.00035 0.00035 0.00004 0.00013 0.00013 0.00013 0.00015 0.00004</td><td><math display="block">\begin{array}{c} 0.42943\\ -0.43006\\ -0.43061\\ -0.432619\\ -0.432619\\ -0.43261\\ -0.430\\ -0.43001\\ -0.43\\ -0.43\\ -0.43\\ -0.31213\\ -0.31213\\ -0.3151\\ -0.3151\\ -0.2734\\ -0.2271\\ -0.22359\\ -0.16593\\ -0.16487\\ -0.16448\\ -0.16487\\ -0.16448\\ -0.16682\\ -0.16448\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.</math></td><td>9         9           9         9           9         9           9         9           9         9           9         9           12         12           12         12           12         12           12         12           12         12           12         12           12         12           12         12           12         12           12         12           12         12           12         12           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22</td></t<>	3000 300 300 300 300 300 300 300 300 30	0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.00035 0.00035 0.00004 0.00013 0.00013 0.00013 0.00015 0.00004	$\begin{array}{c} 0.42943\\ -0.43006\\ -0.43061\\ -0.432619\\ -0.432619\\ -0.43261\\ -0.430\\ -0.43001\\ -0.43\\ -0.43\\ -0.43\\ -0.31213\\ -0.31213\\ -0.3151\\ -0.3151\\ -0.2734\\ -0.2271\\ -0.22359\\ -0.16593\\ -0.16487\\ -0.16448\\ -0.16487\\ -0.16448\\ -0.16682\\ -0.16448\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.$	9         9           9         9           9         9           9         9           9         9           9         9           12         12           12         12           12         12           12         12           12         12           12         12           12         12           12         12           12         12           12         12           12         12           12         12           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22
WEPL           WEPL           AEPW           SPS           SPR           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           SPS           SPS      SPS           SPS <tr< td=""><td>SOUTH DODGE 115KV SOUTHWESTENN STATION 138KV TOLK 230KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV WELESTKA 138KV WELESTKA 138KV WELEST 35KV WILKES 345KV CUNNINGHAM 115KV CUNNINGHAM 115KV CUNNINGHAM 115KV CUNNINGHAM 15KV CUNNINGHAM 230KV CARLSBAD 68KV CARLSBAD 68KV CARLSBAD 68KV CUNNINGHAM 135KV CUNNINGHAM 135KV MADOX 115KV MADOX 115KV M</td><td>42           616           54.02521           15           256           80           162           405.0521           426.5688           244           181           755           1500           181           181           181           181           181           181           181           191           191           191           181           765           765           775           775           775           775           775           775           775           775           775           775           775           775           775           775           775</td><td>0.00051 0.00072 0.00072 0.00072 0.00075 0.000075 0.00007 0.00000 0.00007 0.00007 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000</td><td>SPS         SPS           SPS         SPS           WEPL         AEPW           AEPW         AEPW           SPS         SPS</td><td>MUSTANG 115KV           MUSTANG 200KV           MUSTANG 200KV</td><td>3000 300 300 300 300 300 300 300 300 30</td><td>0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.15058 0.15058 0.15058 0.15058 0.15058 0.000375 0.000375 0.00004 0.00004 0.00013 0.000013</td><td><math display="block">\begin{array}{c} 0.42943\\ -0.43006\\ -0.43066\\ -0.42819\\ -0.43261\\ -0.43\\ -0.43\\ -0.43\\ -0.43\\ -0.43\\ -0.43\\ -0.43\\ -0.43\\ -0.43\\ -0.43\\ -0.31213\\ -0.31213\\ -0.31213\\ -0.31213\\ -0.31511\\ -0.2271\\ -0.2271\\ -0.22359\\ -0.1653\\ -0.1653\\ -0.1653\\ -0.16542\\ -0.16448\\ -0.16448\\ -0.164425\\ -0.16442\\ -0.16425\\ -0.16442\\ -0.16425\\ -0.16442\\ -0.16425\\ -0.16442\\ -0.16425\\ -0.16442\\ -0.16425\\ -0.16442\\ -0.16425\\ -0.16442\\ -0.1642</math></td><td>9         9           9         9           9         9           9         9           9         9           9         9           9         9           9         9           9         9           9         9           12         12           12         13           16         16           17         17           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           23         24           25         22</td></tr<>	SOUTH DODGE 115KV SOUTHWESTENN STATION 138KV TOLK 230KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV WELESTKA 138KV WELESTKA 138KV WELEST 35KV WILKES 345KV CUNNINGHAM 115KV CUNNINGHAM 115KV CUNNINGHAM 115KV CUNNINGHAM 15KV CUNNINGHAM 230KV CARLSBAD 68KV CARLSBAD 68KV CARLSBAD 68KV CUNNINGHAM 135KV CUNNINGHAM 135KV MADOX 115KV MADOX 115KV M	42           616           54.02521           15           256           80           162           405.0521           426.5688           244           181           755           1500           181           181           181           181           181           181           181           191           191           191           181           765           765           775           775           775           775           775           775           775           775           775           775           775           775           775           775           775	0.00051 0.00072 0.00072 0.00072 0.00075 0.000075 0.00007 0.00000 0.00007 0.00007 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000	SPS         SPS           WEPL         AEPW           AEPW         AEPW           SPS         SPS	MUSTANG 115KV           MUSTANG 200KV	3000 300 300 300 300 300 300 300 300 30	0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.15058 0.15058 0.15058 0.15058 0.15058 0.000375 0.000375 0.00004 0.00004 0.00013 0.000013	$\begin{array}{c} 0.42943\\ -0.43006\\ -0.43066\\ -0.42819\\ -0.43261\\ -0.43\\ -0.43\\ -0.43\\ -0.43\\ -0.43\\ -0.43\\ -0.43\\ -0.43\\ -0.43\\ -0.43\\ -0.31213\\ -0.31213\\ -0.31213\\ -0.31213\\ -0.31511\\ -0.2271\\ -0.2271\\ -0.22359\\ -0.1653\\ -0.1653\\ -0.1653\\ -0.16542\\ -0.16448\\ -0.16448\\ -0.164425\\ -0.16442\\ -0.16425\\ -0.16442\\ -0.16425\\ -0.16442\\ -0.16425\\ -0.16442\\ -0.16425\\ -0.16442\\ -0.16425\\ -0.16442\\ -0.16425\\ -0.16442\\ -0.1642$	9         9           9         9           9         9           9         9           9         9           9         9           9         9           9         9           9         9           9         9           12         12           12         13           16         16           17         17           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           22         22           23         24           25         22
WEPL           WEPL           AEPW           SPS           AEPW           AEPW           AEPW           AEPW           AEPW           AEPW           SPS           SPS     <	SOUTH DODGE 115KV SOUTHWESTEN STATION 138KV TOLK 230KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV TULSA POWER STATION 138KV WELETKA 138KV WELETKA 138KV WELETKA 138KV CULSA POWER STATION 96KV WELETKA 138KV CULSA 135KV CUNNIGHAM 115KV CUNNIGHAM 115KV CUNNIGHAM 115KV CUNNIGHAM 230KV CUNNIGHAM 230KV CUNNIGHAM 230KV CUNNIGHAM 230KV CUNNIGHAM 135KV CUNNIGHAM 115KV MADOX 115KV	4 2           616           54.02521           15           256           80           41           81           284           284           84           181           181           155           150           160           181           181           181           181           181           181           181           75 <tr td=""></tr>	0.00051 0.00375 0.00375 0.00375 0.00375 0.00375 0.00375 0.00375 0.00006 0.0006 0.000	SPS           WEPL           AEPW           AEPW           AEPW           AEPW           SPS           SPS           SPS	MUSTANG 115KV           MUSTANG 20KV           MUSTANG 105 20KV           MUSTANG 105 20KV           COLK 20KV           ZOKV           MUSTANG 115KV           COLFON 115 461KV <t< td=""><td>3000 300 300 300 300 300 300 300 300 30</td><td>0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.00035 0.00035 0.00004 0.00013 0.00013 0.00013 0.00015 0.00004</td><td><math display="block">\begin{array}{c} 0.42943\\ -0.43006\\ -0.43061\\ -0.432619\\ -0.432619\\ -0.43261\\ -0.430\\ -0.43001\\ -0.43\\ -0.43\\ -0.43\\ -0.31213\\ -0.31213\\ -0.3151\\ -0.3151\\ -0.2734\\ -0.2271\\ -0.22359\\ -0.16593\\ -0.16487\\ -0.16448\\ -0.16487\\ -0.16448\\ -0.16682\\ -0.16448\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.</math></td><td>9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9</td></t<>	3000 300 300 300 300 300 300 300 300 30	0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.42994 0.15058 0.15058 0.15058 0.15058 0.15058 0.15058 0.00035 0.00035 0.00004 0.00013 0.00013 0.00013 0.00015 0.00004	$\begin{array}{c} 0.42943\\ -0.43006\\ -0.43061\\ -0.432619\\ -0.432619\\ -0.43261\\ -0.430\\ -0.43001\\ -0.43\\ -0.43\\ -0.43\\ -0.31213\\ -0.31213\\ -0.3151\\ -0.3151\\ -0.2734\\ -0.2271\\ -0.22359\\ -0.16593\\ -0.16487\\ -0.16448\\ -0.16487\\ -0.16448\\ -0.16682\\ -0.16448\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.16448\\ -0.16428\\ -0.$	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9

 [SPS
 [MADOX 115KV]
 75]
 -0.16452]AEPW
 [FITZH0GH 161KV]

 Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.
 Factor = Source GSF - Sink GSF

 Redispatch Amount = Relief Amount / Factor
 Redispatch Amount / Factor

Upgrade:	Mustang-San Andr-Amerada Hess 115KV			
Limiting Facility:	DENVER CITY INTERCHANGE S - MUSTANG STATION 11	5KV CKT 1		
Direction:	To->From			
Line Outage:	DENVER CITY INTERCHANGE N - MUSTANG STATION 11	5KV CKT 1		
Flowgate:	51962519681519605196613407G			
Date Redispatch Needed:	Starting 2007 4/1 - 6/1 Until EOC of Upgrade			
Season Flowgate Identified:	2007 Spring Peak			
		Aggregate Relief		
Reservation	Relief Amount	Amount		
1162675	5 1.7	1.7		
				Sink
		Maximum		Contro
Source Control Area	Source	Increment(MW)	GSF	Area
SPS	'CARLSBAD 69KV'	18		
SPS	CUNNINGHAM 115KV	93.00244		
SPS	'MADOX 115KV'	75		
WEPL	'A. M. MULLERGREN GENERATOR 115KV'	38	0.00034	
AEPW	'AEP-CT0113.8 161KV'	85		
AEPW	'AEP-CT0213.8 161KV'	85		
AEPW AEPW	'AEP-CT0313.8 161KV'	85		
	'AEP-CT0413.8 161KV'	85		
AEPW AEPW	'AEP-CT0513.8 161KV'	85		
	'AEP-CT0613.8 161KV'	85		
AEPW AEPW	'AH-CC_C118.0 138KV'	150		
AEPW	'AH-CC_C218.0 138KV'	150		
	'AH-CC_ST18.0 138KV'			
AEPW WEPI	'ARSENAL HILL 69KV' 'BELOIT 115KV'	99		
WEPL	CIMARRON RIVER 115KV	16.6		
SUNC	CIMARRON RIVER 115KV	13.9		
SUNC	CITY OF GOODLAND 115KV	13.9		
SUNC	CITY OF HILL CITY 115KV	6.1	0.00034	
SUNC	CITY OF HUGOTON 69KV	4.25		
SUNC	CITY OF LAKIN TISKV	4.25		
SUNC	CITY OF NORTON 115KV	10.56		
30110	GITT OF ST.PRANUIS TISKY	4.3	0.00046	373

SPP Aggregate Facility Study
(SPP-2006-AG3-AFS-3)
April 11, 2007
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Sink MUSTANG 115KV MUSTANG 115KV

ink

MUSTANG 115KV PS PS

 Maximum Decrement/(MW)
 CSF CSF
 Factor

 300
 0.42944
 -0.506311

 300
 0.42944
 -0.506311

 300
 0.42944
 -0.506311

 300
 0.42944
 -0.508317

 300
 0.42944
 -0.42964

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 0.42944
 -0.42936

Aggregate Redispatch Amount (MW)

MEPL APPY         COLETION 115KY         670         0.00013/ES         MUSTANG 115KY         300         0.42           APPW         EXASTMAN 35KY         66         4.00004578         MUSTANG 115KY         300         0.000           APPW         EXASTMAN 136KY         0.301         6.0000578         MUSTANG 115KY         300         0.000           APPW         FTATCONFLICTION         281         0.0001578         MUSTANG 115KY         300         0.000           APPW         FTATCONFLICTION         281         0.0000578         MUSTANG 115KY         300         0.02           APPW         FULTOR 115KY         181         0.0000578         MUSTANG 115KY         300         0.02           APPW         FULTOR 115KY         101         0.0005578         MUSTANG 115KY         300         0.02           SURC         GARDEN CITY 96KY         101         0.0005578         MUSTANG 115KY         300         0.02           SURC         GARDEN CITY 96KY         101         0.0005578         MUSTANG 115KY         300         0.42           SURC         GREENSLICT         960         0.00012578         MUSTANG 115KY         300         0.42           SURC         GREENSLICT         960	94         -0.43           94         -0.42882           94         -0.42981           94         -0.429981           94         -0.429981           94         -0.429981           94         -0.429981           94         -0.429981           94         -0.429981           94         -0.42982           94         -0.429835           94         -0.429835           94         -0.429835           94         -0.42985           94         -0.42982           94         -0.42889           94         -0.42884           94         -0.42894           94         -0.42871           94         -0.42934           94         -0.42937           94         -0.42934           94         -0.42986           94         -0.42986           94         -0.42986           94         -0.42986           94         -0.4323           94         -0.4323           94         -0.4323           94         -0.4233           94         -0.4233           94
SPS         CZ 696V         4         0.00113         SPS         MUSTANO 115KV         300         6.42           AEPW         F1274UGH 161KV         381         6.00005         SPS         MUSTANO 115KV         300         6.42           AEPW         F1274UGH 161KV         281         6.00005         SPS         MUSTANO 115KV         300         6.42           AEPW         F1474UGH 161KV         281         6.00005         SPS         MUSTANO 115KV         300         6.42           SURC         GARDEN CITY 169V         177.4000         0.0005         SPS         MUSTANO 115KV         300         6.42           SURC         GARDEN CITY 36W         1107         0.0005         SPS         MUSTANO 115KV         300         6.42           SURC         GARDEN CITY 36W         150         0.0005         SPS         MUSTANO 115KV         300         6.42           SURC         GREENBURG 115KV         61         0.0005         SPS         MUSTANO 115KV         300         6.42           SPS         MUSTANO 115KV         300         6.42         5.55         MUSTANO 115KV         300         6.42           SPS         MUSTANO 115KV         4.00005         SPS         MUSTANO	$\begin{array}{rrrr} 94 & -0.42882 \\ 94 & -0.42882 \\ 94 & -0.42998 \\ 94 & -0.429987 \\ 94 & -0.429987 \\ 94 & -0.429987 \\ 94 & -0.429987 \\ 94 & -0.429982 \\ 94 & -0.429982 \\ 94 & -0.42935 \\ 94 & -0.42935 \\ 94 & -0.42935 \\ 94 & -0.42857 \\ 94 & -0.42861 \\ 94 & -0.42861 \\ 94 & -0.42861 \\ 94 & -0.42871 \\ 94 & -0.42934 \\ 94 & -0.42934 \\ 94 & -0.42946 \\ 94 & -0.43 \\ 94 & -0.42946 \\ 94 & -0.43 \\ 94 &$
AEPW         EASTMAN 138/V         130.01         0.00005 SPS         MUSTANG 115/V         0.300         0.420           AEPW         FUHT CREEK 151K/V         28         -0.00003 SPS         MUSTANG 115/V         0.300         0.422           AEPW         FUHT CREEK 151K/V         28         -0.00003 SPS         MUSTANG 115/V         0.300         0.422           AEPW         FUHT CREEK 151K/V         171.690         0.00005 SPS         MUSTANG 115/V         0.300         0.422           SUNC         GARDEN CITY 48/V         171.690         0.00005 SPS         MUSTANG 115/V         0.300         0.422           SUNC         GARDEN CITY 48/V         113.0         0.00012 SPS         MUSTANG 115/V         0.300         0.422           WEPL         GREENBURG 115/V         6.2         0.00013 SPS         MUSTANG 115/V         0.300         0.422           SUNC         HARPER 138/V         77.21         0.00013 SPS         MUSTANG 115/V         0.300         0.422           SUNC         HARPER 138/V         22.85960         MUSTANG 115/V         0.300         0.422           SUNC         HARPER 138/V         22.85960         MUSTANG 115/V         0.300         0.422           SUNC         HARPER 138/V         <	$\begin{array}{rrrr} 94 & -0.43 \\ 94 & -0.42998 \\ 94 & -0.42998 \\ 94 & -0.42998 \\ 94 & -0.42998 \\ 94 & -0.42999 \\ 94 & -0.42982 \\ 94 & -0.42982 \\ 94 & -0.42982 \\ 94 & -0.42982 \\ 94 & -0.42982 \\ 94 & -0.42981 \\ 94 & -0.42861 \\ 94 & -0.42871 \\ 94 & -0.42871 \\ 94 & -0.42871 \\ 94 & -0.42871 \\ 94 & -0.42871 \\ 94 & -0.42871 \\ 94 & -0.42871 \\ 94 & -0.42934 \\ 94 & -0.42934 \\ 94 & -0.42946 \\ 94 & -0.42998 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.4298 \\ 94 & -0.43 \\ 94 & -0.423 \\ 94 & -0.4298 \\ 94 & -0.423 \\ 94 & -0.423 \\ 94 & -0.4298 \\ 94 & -0.423 \\ 94 & -0.423 \\ 94 & -0.4298 \\ 94 & -0.423 \\ 94 & -0.423 \\ 94 & -0.4298 \\ 94 & -0.423 \\ 94 & -0.423 \\ 94 & -0.423 \\ 94 & -0.423 \\ 94 & -0.423 \\ 94 & -0.423 \\ 94 & -0.4298 \\ 94 & -0.423 \\ 94 & -0.423 \\ 94 & -0.4298 \\ 94 & -0.423 \\ 94 & -0.423 \\ 94 & -0.4298 \\ 94 & -0.423 \\ 94 & -0.423 \\ 94 & -0.4298 \\ 94 & -0.4298 \\ 94 & -0.4298 \\ 94 & -0.423 \\ 94 & -0.4298 \\ 94 & -0.423 \\ 94 & -0.4298 \\ 94 & -0.423 \\ 94 & -0.423 \\ 94 & -0.4298 \\ 94 & -$
AEPW         FITZHUGH 151KV         398         -0.00004 SPS         MUSTANG 115KV         308         0.422           AEPW         FULTOR 115KV         28         -0.00005 SPS         MUSTANG 115KV         308         0.422           AEPW         FULTOR 115KV         171.480         -0.00005 SPS         MUSTANG 115KV         308         0.425           SUNC         GARDEN GITY 13KV         171.480         -0.00005 SPS         MUSTANG 115KV         308         0.425           SUNC         GARDEN GITY 13KV         6         0.0005 SPS         MUSTANG 115KV         308         0.425           SUNC         GARDEN GITY 13KV         6         0.0005 SPS         MUSTANG 115KV         308         0.425           VEPL         GREENBAURG 115KV         6.2         0.0003 SPS         MUSTANG 115KV         308         0.425           VEPL         GREENBAURG 115KV         6.2         0.0003 SPS         MUSTANG 115KV         308         0.425           SUNC         HALPCOLD 341 J3SKV         6.2         0.0001 SPS         MUSTANG 115KV         308         0.425           SUNC         JONSON BAKE         1.5         0.00005 SPS         MUSTANG 115KV         308         0.425           SUNC         JONSON BAKE<	$\begin{array}{rrrr} 94 & -0.42998 \\ 94 & -0.42997 \\ 94 & -0.42997 \\ 94 & -0.42997 \\ 94 & -0.42997 \\ 94 & -0.42995 \\ 94 & -0.42935 \\ 94 & -0.42935 \\ 94 & -0.42935 \\ 94 & -0.42935 \\ 94 & -0.42981 \\ 94 & -0.4280 \\ 94 & -0.4280 \\ 94 & -0.4280 \\ 94 & -0.4280 \\ 94 & -0.4280 \\ 94 & -0.4280 \\ 94 & -0.4280 \\ 94 & -0.4280 \\ 94 & -0.4280 \\ 94 & -0.4280 \\ 94 & -0.42946 \\ 94 & -0.43 \\ 94 & -0.42986 \\ 94 & -0.42986 \\ 94 & -0.42986 \\ 94 & -0.42986 \\ 94 & -0.43 \\ 94 & $
AEPW         FLINT CREEK 191N/         28         -0.00005 SPS         MUSTANG 115KV         300         0.424           AEPW         FULTON 15KV         171.4000         0.0005 SPS         MUSTANG 115KV         300         0.425           SUNC         GAADEN CITY 15KV         171.4000         0.0005 SPS         MUSTANG 115KV         300         0.425           SUNC         GAADEN CITY 34KV         107         1.0005 SPS         MUSTANG 115KV         300         0.425           SUNC         GREENLEAF 115KV         0.0001 SPS         MUSTANG 115KV         300         0.425           WEPL         GREENLEAF 115KV         0.0001 SPS         MUSTANG 115KV         300         0.425           WEPL         HARPER 13KV         77.21         0.0001 SPS         MUSTANG 115KV         300         0.425           SPS         HARTROTON 230KV         300         0.0001 SPS         MUSTANG 115KV         300         0.425           SUNC         HOLCORDA 115KV         2.8.9996         MUSTANG 115KV         300         0.425           SUNC         HOLCORDA 115KV         2.8.9996         MUSTANG 115KV         300         0.425           SUNC         HOLCORDA 115KV         2.8.9996         MUSTANG 115KV         300	$\begin{array}{rrrr} 94 & -0.42997 \\ 04 & -0.42999 \\ 94 & -0.42939 \\ 94 & -0.42935 \\ 94 & -0.42935 \\ 94 & -0.42935 \\ 94 & -0.42935 \\ 94 & -0.42981 \\ 94 & -0.42981 \\ 94 & -0.42981 \\ 94 & -0.42861 \\ 94 & -0.42871 \\ 94 & -0.42871 \\ 94 & -0.42871 \\ 94 & -0.42871 \\ 94 & -0.42871 \\ 94 & -0.42871 \\ 94 & -0.42871 \\ 94 & -0.42871 \\ 94 & -0.42871 \\ 94 & -0.42931 \\ 94 & -0.42948 \\ 94 & -0.42988 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.42986 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.42986 \\ 94 & -0.42986 \\ 94 & -0.43 \\ 94 & -0.42986 \\ 94 & -0.42986 \\ 94 & -0.43 \\ 94 & -0.42986 \\ 94 & -0.42986 \\ 94 & -0.43 \\ 94 & -0.42986 \\ 94 & -0.43 \\ 94 & -0.42986 \\ 94 & -0.42986 \\ 94 & -0.43 \\ 94 & -0.42986 \\ 94 & -0.42986 \\ 94 & -0.42986 \\ 94 & -0.42986 \\ 94 & -0.42986 \\ 94 & -0.42986 \\ 94 & -0.42986 \\ 94 & -0.42986 \\ 94 & -0.43 \\ 94 & -0.42986 \\ 94 & $
APPW         FULTON 115KV         153         -0.00005 [PS         MUSTANG 115KV         -0.000           SUNC         GARDEN CITY 134WV         110.7         0.00059 [PS         MUSTANG 115KV         -0.00           SUNC         GARDEN CITY 34WV         110.7         0.00059 [PS         MUSTANG 115KV         -0.00           SUNC         GARDEN CITY 34WV         15         0.00059 [PS         MUSTANG 115KV         -0.00           WEPL         CHEEBLAR 115KV         -0.00013 [PS         MUSTANG 115KV         -0.00         -0.00           WEPL         HARPEN 135KV         -0.00013 [PS         MUSTANG 115KV         -0.00         -0.00013 [PS           SPS         HURRCO2 BKV         -0.00013 [PS         MUSTANG 115KV         -0.00         -0.00013 [PS           SPS         HURRCO2 BKV         -0.00005 [PS         MUSTANG 115KV         -0.00         -0.00005 [PS           SLAC         HURRCO2 BKV         -0.00005 [PS         MUSTANG 115KV         -0.00         -0.00000000000000000000000000000000000	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$
SINC         GARDENCITY 115KV         171.4996         0.00058         JERS         MUSTANG 115KV         300         0.42           SUNC         GARDENCITY 34KV         110         0.00058         JERS         MUSTANG 115KV         300         0.42           SUNC         GARDENCITY 34KV         13         0.00051         JERS         MUSTANG 115KV         300         0.42           WEPL         GREENKART 15KV         6         0.00012         JERS         MUSTANG 115KV         300         0.42           WEPL         GREENKART 15KV         6         0.00012         JERS         MUSTANG 115KV         300         0.42           WEPL         GREENKART 15KV         6         0.00013         JERS         MUSTANG 115KV         300         0.42           SPS         HUBRCOLLAD 135KV         7         6.00002         JERS         MUSTANG 115KV         300         0.42           SINC         JOINTSON 89KV         5.2         0.00005         JERS         MUSTANG 115KV         300         0.42           SINC         JUDSON LARGE 115KV         32.3606         0.00012         JERS         MUSTANG 115KV         300         0.42           SINC         JUDSON LARGE 115KV         32.37167	$\begin{array}{rrrr} 94 & -0.42335 \\ 04 & -0.42335 \\ 04 & -0.42335 \\ 04 & -0.42335 \\ 04 & -0.42381 \\ 04 & -0.42381 \\ 04 & -0.42381 \\ 04 & -0.42381 \\ 04 & -0.42381 \\ 04 & -0.42331 \\ 04 & -0.42331 \\ 04 & -0.42331 \\ 04 & -0.42331 \\ 04 & -0.42398 \\ 04 & -0.42398 \\ 04 & -0.42398 \\ 04 & -0.43 \\ 04 & -0.42398 \\ 04 & -0.43 \\ 04 & -0.4238 \\ 04 & -0.4288 \\ 04 & -0.428$
SUNC         GARDEN CITY 34KY         10.7         0.0058 [PS         MUSTANG 115KV         300         0.42           SUNC         GARDEN CITY 54KY         15         0.0058 [PS         MUSTANG 115KV         300         0.42           WEPL         GREENLEAF 115KV         6.2         0.0003 [PS         MUSTANG 115KV         300         0.42           WEPL         THARPER 135KV         7.72         0.0003 [PS         MUSTANG 115KV         300         0.42           WEPL         THARPER 135KV         7.72         0.00012 [PS         MUSTANG 115KV         300         0.42           VEPL         THARPER 135KV         300         0.002 [SPS         MUSTANG 115KV         300         0.42           VEPL         THARPORTON 200KV         28.0660         0.0008 [PS         MUSTANG 115KV         300         0.42           SUNC         UDENOLIARGE 115KV         28.0660         0.0008 [PS         MUSTANG 115KV         300         0.42           SUNC         UDINSON 69KV         5.2         0.0002 [PS         MUSTANG 115KV         300         0.42           SUNC         UDINSON 69KV         32.30860         0.00012 [PS         MUSTANG 115KV         300         0.42           AEPW         NLOCALE 135KV	$\begin{array}{rrrr} 94 & -0.42335 \\ 94 & -0.42335 \\ 94 & -0.42382 \\ 94 & -0.42382 \\ 94 & -0.42387 \\ 94 & -0.42387 \\ 94 & -0.42881 \\ 94 & -0.42881 \\ 94 & -0.42871 \\ 94 & -0.42837 \\ 94 & -0.42337 \\ 94 & -0.42337 \\ 94 & -0.42337 \\ 94 & -0.423946 \\ 94 & -0.423946 \\ 94 & -0.43 \\ 94 & -0.423946 \\ 94 & -0.43 \\ 94 & -0.423 \\ 94 & -0.$
SUNC         GARDEN CITY 34KY         10.7         0.0058 [PS         MUSTANG 115KV         300         0.42           SUNC         GARDEN CITY 54KY         15         0.0058 [PS         MUSTANG 115KV         300         0.42           WEPL         GREENLEAF 115KV         6.2         0.0003 [PS         MUSTANG 115KV         300         0.42           WEPL         THARPER 135KV         7.72         0.0003 [PS         MUSTANG 115KV         300         0.42           WEPL         THARPER 135KV         7.72         0.00012 [PS         MUSTANG 115KV         300         0.42           VEPL         THARPER 135KV         300         0.002 [SPS         MUSTANG 115KV         300         0.42           VEPL         THARPORTON 200KV         28.0660         0.0008 [PS         MUSTANG 115KV         300         0.42           SUNC         UDENOLIARGE 115KV         28.0660         0.0008 [PS         MUSTANG 115KV         300         0.42           SUNC         UDINSON 69KV         5.2         0.0002 [PS         MUSTANG 115KV         300         0.42           SUNC         UDINSON 69KV         32.30860         0.00012 [PS         MUSTANG 115KV         300         0.42           AEPW         NLOCALE 135KV	$\begin{array}{rrrr} 94 & -0.42335 \\ 94 & -0.42335 \\ 94 & -0.42382 \\ 94 & -0.42382 \\ 94 & -0.42387 \\ 94 & -0.42387 \\ 94 & -0.42881 \\ 94 & -0.42881 \\ 94 & -0.42871 \\ 94 & -0.42837 \\ 94 & -0.42337 \\ 94 & -0.42337 \\ 94 & -0.42337 \\ 94 & -0.423946 \\ 94 & -0.423946 \\ 94 & -0.43 \\ 94 & -0.423946 \\ 94 & -0.43 \\ 94 & -0.423 \\ 94 & -0.$
SUNC         GARDEN GITY 69KV         13         0.00058 (5PS         MUSTANO 115KV         0.000 (2AS           WEPL         GREENAEAF 115KV         6.2         0.00012 (5PS         MUSTANO 115KV         300         0.42           WEPL         GREENABURG 115KV         6.2         0.00012 (5PS         MUSTANO 115KV         300         0.42           WEPL         HARRINGTON 250KV         77.21         0.00013 (5PS         MUSTANO 115KV         300         0.42           SPS         HARRINGTON 250KV         300         0.0013 (5PS         MUSTANO 115KV         300         0.42           SPS         HARRINGTON 250KV         2.8 (596)         0.00013 (5PS         MUSTANO 115KV         300         0.42           SPS         HUBRCO2 80KV         5.2         0.00005 (5PS         MUSTANO 115KV         300         0.42           SPK         JUDSON LARGE 115KV         33.2886         0.0004 (5PS         MUSTANO 115KV         300         0.42           AEPW         KIWA 345KV         13.6         0.00012 (5PS         MUSTANO 115KV         300         0.42           AEPW         KIWA 345KV         13.6         0.00012 (5PS         MUSTANO 115KV         300         0.42           AEPW         KIWA 345KV	$\begin{array}{rrrr} 94 & -0.42936 \\ +0.42937 \\ 94 & -0.42957 \\ 94 & -0.42957 \\ 94 & -0.42951 \\ 94 & -0.42951 \\ 94 & -0.42951 \\ 94 & -0.42951 \\ 94 & -0.42334 \\ 94 & -0.42871 \\ 94 & -0.42871 \\ 94 & -0.42937 \\ 94 & -0.42937 \\ 94 & -0.42946 \\ 94 & -0.42998 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.4233 \\ 94 & -0.4233 \\ 94 & -0.4233 \\ 94 & -0.4233 \\ 94 & -0.4233 \\ 94 & -0.4233 \\ 94 & -0.4233 \\ 94 & -0.4233 \\ 94 & -0.4233 \\ 94 & -0.42986 \\ 31 & -0.42986 \\ 94 & -0.42$
WEPL         GREENLEAF 115KV         B         0.0007 [SPS         MUSTANO 115KV         300         0.42           WEPL         HARDER 138V         17.21         0.0007 [SPS         MUSTANO 115KV         300         0.42           WEPL         HARDER 138V         17.21         0.0007 [SPS         MUSTANO 115KV         300         0.42           SPS         HARNIGTON 200KV         360         0.0002 [SPS         MUSTANO 115KV         300         0.42           SPS         HARNIGTON 200KV         668         0.0008 [SPS         MUSTANO 115KV         300         0.42           SINC         HOLKOME 115KV         28.9968         0.0008 [SPS         MUSTANO 115KV         300         0.42           SINC         HOLKOME 115KV         28.9968         0.0006 [SPS         MUSTANO 115KV         300         0.42           SINC         HOLKONE 138KV         32.3986         0.0006 [SPS         MUSTANO 115KV         300         0.42           AEPW         KIOWA 345KV         31.348         0.0006 [SPS         MUSTANO 115KV         300         0.42           AEPW         LAD13 G8KV         31.49         0.00005 [SPS         MUSTANO 115KV         300         0.42           AEPW         LAD13 G8KV <t< td=""><td><math display="block">\begin{array}{rrrr} 94 &amp; -0.42282 \\ 94 &amp; -0.42287 \\ 94 &amp; -0.42287 \\ 94 &amp; -0.42281 \\ 94 &amp; -0.42881 \\ 94 &amp; -0.42881 \\ 94 &amp; -0.42837 \\ 94 &amp; -0.42337 \\ 94 &amp; -0.42337 \\ 94 &amp; -0.42397 \\ 94 &amp; -0.42396 \\ 94 &amp; -0.43 \\ 9</math></td></t<>	$\begin{array}{rrrr} 94 & -0.42282 \\ 94 & -0.42287 \\ 94 & -0.42287 \\ 94 & -0.42281 \\ 94 & -0.42881 \\ 94 & -0.42881 \\ 94 & -0.42837 \\ 94 & -0.42337 \\ 94 & -0.42337 \\ 94 & -0.42397 \\ 94 & -0.42396 \\ 94 & -0.43 \\ 9$
WEPL         GREENSBURG 115KV         6.2         0.0023 [PS         MUSTANG 115KV         300         0.42           SPS         HARRINGTON 230KV         17.21         0.0013 [PS         MUSTANG 115KV         300         0.42           SPS         HARRINGTON 230KV         360         0.0013 [PS         MUSTANG 115KV         300         0.42           SLNC         HOLCOMB 115KV         28.9996         0.0008 [PS         MUSTANG 115KV         300         0.42           SLNC         HOLCOMB 115KV         28.9996         0.0002 [PS         MUSTANG 115KV         300         0.42           SLNC         JOHNSON 69KY         35         0.00073 [PS         MUSTANG 115KV         300         0.42           SLNC         JOHNSON 69KY         32.0006 [PS         MUSTANG 115KV         300         0.42           SLNC         JOHNSON 69KY         32.0006 [PS         MUSTANG 115KV         300         0.42           AEPW         JOHNSON 69KY         337.167         0.0004 [PS         MUSTANG 115KV         300         0.42           AEPW         LEBROCK 345KV         212         0.0005 [PS         MUSTANG 115KV         300         0.42           AEPW         LEBROCK 345KV         212         0.0002 [PS	$\begin{array}{rrrr} 94 & -0.42287\\ 94 & -0.42281\\ 94 & -0.42881\\ 94 & -0.42881\\ 94 & -0.42881\\ 94 & -0.42834\\ 94 & -0.42871\\ 94 & -0.42837\\ 94 & -0.42937\\ 94 & -0.42936\\ 94 & -0.43\\ 94 & -0.43\\ 94 & -0.43\\ 94 & -0.43\\ 94 & -0.43\\ 94 & -0.43\\ 94 & -0.43281\\ 94 & -0.43221\\ 94 & -0.43221\\ 94 & -0.4323\\ 94 & -0.4233\\ 94 & -0.4233\\ 94 & -0.4233\\ 94 & -0.4238\\ 94 & -0.4238\\ 94 & -0.4238\\ 94 & -0.4238\\ 94 & -0.42883\\ 94 & -0.42888\\ 94 & -0.42888\\ 94 & -0.42888\\ 94 & -0.42888\\ 94 & -0.42888\\ 94 & -0$
WEFL         HARPER 138V/         17.21         0.00735 [SPS         HUSTANG 118V/         300         0.422           SPS         HARINGTON 236V/         360         0.00125 [SPS         MUSTANG 118V/         300         0.422           AEPW         HEMPCOAL240 138V/         668         -0.0006 [SPS         MUSTANG 118V/         300         0.423           SPS         HUBRC2E 68V/         28.9996         0.0005 [SPS         MUSTANG 118V/         300         0.423           SINC         JUDSON LARGE 115V/         3.20866         0.00025 [SPS         MUSTANG 118V/         300         0.424           WEFL         JUDSON LARGE 115V/         3.20866         0.00025 [SPS         MUSTANG 115V/         300         0.424           AEPW         KIOWA 345K/         3.20866         0.00025 [SPS         MUSTANG 115V/         300         0.424           AEPW         KIONALEE 138K/         3.20866         0.0004 [SPS         MUSTANG 115V/         300         0.424           AEPW         LEBEMAN 130K/         3.20866         0.0004 [SPS         MUSTANG 115V/         300         0.424           AEPW         LBENCK 345W/         312         0.0021 [SPS         MUSTANG 115V/         300         0.424           AEPW	$\begin{array}{rrrr} 94 & -0.42981 \\ 0+ -0.42869 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.4334 \\ 94 & -0.42871 \\ 94 & -0.42937 \\ 94 & -0.42946 \\ 94 & -0.43066 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.43 \\ 94 & -0.423 \\ 94 & -0.423 \\ 94 & -0.42986 \\ 35 & -0.42986 \\ 3$
SPS         HARRINGTON 230KV         360         0.0125 [SPS         MUSTANG 115KV         300         0.42           AEPW         HEMPCOAL24.0 136KV         28.9996         0.0006 [SPS         MUSTANG 115KV         300         0.42           SUNC         HOLCOME 115KV         28.9996         0.0005 [SPS         MUSTANG 115KV         300         0.42           SUNC         JOHNSON 69KV         6         0.0123 [SPS         MUSTANG 115KV         300         0.42           SUNC         JOHNSON 69KV         5.2         0.0004 [SPS         MUSTANG 115KV         300         0.42           SUNC         JOHNSON 69KV         31346         0.0004 [SPS         MUSTANG 115KV         300         0.42           AEPW         MODALE [LKW         337.810         0.0006 [SPS         MUSTANG 115KV         300         0.42           AEPW         MUSERAMC [LSKW         126         0.0005 [SPS         MUSTANG 115KV         300         0.42           AEPW         LEBROCK 348KV         126         0.0005 [SPS         MUSTANG 115KV         300         0.42           SPS         LPHAL2 69KV         122         0.0027 [SPS         MUSTANG 115KV         300         0.42           SPS         LPAAC42 69KV	94         -0.42869           94         -0.42861           94         -0.42834           94         -0.42834           94         -0.42837           94         -0.42846           94         -0.42946           94         -0.42946           94         -0.42948           94         -0.42948           94         -0.42988           94         -0.43999           94         -0.43221           94         -0.4323           94         -0.4323           94         -0.4323           94         -0.4323           94         -0.4323           94         -0.4323           94         -0.4323           94         -0.4323           94         -0.4323           94         -0.423863
AEPW         HEMPCOAL24.0 138KV         666         4.00006 [\$PS         MUSTANG 115KV         9300         0.428           SINC         HUBRC02 69KV         6.6         0.0006 [\$PS         MUSTANG 115KV         300         0.428           SPS         HUBRC02 69KV         5.2         0.0006 [\$PS         MUSTANG 115KV         300         0.428           SUNC         JUDHSON 48KV         5.2         0.0007 [\$PS         MUSTANG 115KV         300         0.428           KEPW         JUDSON LARGE 115KV         332,0886         0.0007 [\$PS         MUSTANG 115KV         300         0.428           AEPW         KIOWA 345KV         1314         0.0001 [\$PS         MUSTANG 115KV         300         0.428           AEPW         TKOXA 545KV         137.167         0.0006 [\$PS         MUSTANG 115KV         300         0.428           AEPW         LEBROCK 345KV         132         0.00005 [\$PS         MUSTANG 115KV         300         0.428           AEPW         LEBROCK 345KV         132         0.0002 [\$PS         MUSTANG 115KV         300         0.428           AEPW         LEBROCK 345KV         132         0.0002 [\$PS         MUSTANG 115KV         300         0.428           SPS         LPHQL2 69KV	94         -0.43           94         -0.42334           94         -0.42871           94         -0.42871           94         -0.42871           94         -0.42937           94         -0.42946           94         -0.42946           94         -0.42998           94         -0.42998           94         -0.43           94         -0.43221           94         -0.4323           94         -0.4323           94         -0.423863
SUNC         HOLCOME 115KV         28.99969         OD0005 [SPS         MUSTANG 115KV         300         0.42           SPS         HUBRC02 66KV         6         0.00123 [SPS         MUSTANG 115KV         300         0.42           SUNC         JOHNSON 66KV         5.2         0.00067 [SPS         MUSTANG 115KV         300         0.42           AEPW         KIOWA 345KV         31348         0.00043 [SPS         MUSTANG 115KV         300         0.42           AEPW         KIOWA 345KV         3137.167         0.00012 [SPS         MUSTANG 115KV         300         0.42           AEPW         LBDTOKALEE 138KV         3137.167         0.00005 [SPS         MUSTANG 115KV         300         0.42           AEPW         LBERTAN 138KV         132         0.00005 [SPS         MUSTANG 115KV         300         0.42           AEPW         LDRESTAR POWER PLANT 69KV         50         0.00005 [SPS         MUSTANG 115KV         300         0.42           SPS         LP-HOLL2 69KV         50         0.00005 [SPS         MUSTANG 115KV         300         0.42           SPS         LP-HOLL2 69KV         20         0.0022 [SPS         MUSTANG 115KV         300         0.42           SPS         LP-HOLL2 69KV <td>94         -0.42334           94         -0.42347           94         -0.42937           94         -0.42936           94         -0.42946           94         -0.43006           94         -0.42988           94         -0.42988           94         -0.42988           94         -0.42398           94         -0.433           94         -0.43298           94         -0.43298           94         -0.43221           94         -0.4233           94         -0.4233           94         -0.423883</td>	94         -0.42334           94         -0.42347           94         -0.42937           94         -0.42936           94         -0.42946           94         -0.43006           94         -0.42988           94         -0.42988           94         -0.42988           94         -0.42398           94         -0.433           94         -0.43298           94         -0.43298           94         -0.43221           94         -0.4233           94         -0.4233           94         -0.423883
SPS         HUBRC02 69KV         6         0.0123 [SPS         MUSTANG 115KV         300         0.42           SUNC         JUDSON LARGE 115KV         5.2         0.00075 [SPS         MUSTANG 115KV         300         0.42           WEPL         JUDSON LARGE 115KV         332.0886         0.00048 [SPS         MUSTANG 115KV         300         0.42           AEPW         KNOXLEE         1384         0.0001 [SPS         MUSTANG 115KV         300         0.42           AEPW         LBBROCK 345KV         13         0.00004 [SPS         MUSTANG 115KV         300         0.42           AEPW         LEBROCK 345KV         182         0.00005 [SPS         MUSTANG 115KV         300         0.42           AEPW         LEBROCK 345KV         132         0.00005 [SPS         MUSTANG 115KV         300         0.42           SPS         LP-HOLL2 66KV         132         0.00007 [SPS         MUSTANG 115KV         300         0.42           SPS         LP-MACK2 69KV         132         0.00227 [SPS         MUSTANG 115KV         300         0.42           SPS         MUSTANG 115KV         132         0.0023 [SPS         MUSTANG 115KV         300         0.42           SPS         LP-MACK2 69KV         20	94         -0.42871           94         -0.42937           94         -0.42936           94         -0.42946           94         -0.43006           94         -0.43086           94         -0.42998           94         -0.43           94         -0.43           94         -0.43           94         -0.43           94         -0.43           94         -0.43           94         -0.43           94         -0.43           94         -0.43           94         -0.43299           94         -0.4323           94         -0.42938           94         -0.42938           94         -0.42863
SUNC         JOHNSON 68/V         5.2         0.0007/SPS         MUSTANG 119KV         300         0.42           MEPL         JUDSON LARGE 115KV         3320866         0.00048/PS         MUSTANG 119KV         300         0.42           AEPW         KIOWA 345KV         337.8167         0.00016/PS         MUSTANG 119KV         300         0.42           AEPW         KIOWA 345KV         337.8167         0.00005/PS         MUSTANG 119KV         300         0.42           AEPW         LEBROCK 346KV         132         0.00005/PS         MUSTANG 119KV         300         0.42           AEPW         LEBROCK 346KV         132         0.00005/PS         MUSTANG 119KV         300         0.42           AEPW         LEBERCK 346KV         122         0.00025/PS         MUSTANG 119KV         300         0.42           SPS         LP-HOLIZ 69KV         122         0.00025/PS         MUSTANG 119KV         300         0.42           SPS         LP-HOLIZ 69KV         120         0.00227/SPS         MUSTANG 119KV         300         0.42           SPS         LP-HOLIZ 69KV         124         0.0012/SPS         MUSTANG 119KV         300         0.42           SPS         MUD-CONTRIENT 138KV         142	94         -0.42937           94         -0.42946           94         -0.43006           94         -0.4298           94         -0.42998           94         -0.42998           94         -0.42999           94         -0.42999           94         -0.432           94         -0.4321           94         -0.4323           94         -0.4323           94         -0.4323           94         -0.4323           94         -0.42863
SUNC         JOHNSON GRV         5.2         0.0007 [SPS         MUSTANG 119KV         300         0.428           WEPL         JUDSON LARGE 115KV         3320868         0.0004 [SPS         MUSTANG 119KV         300         0.428           AEPW         KIOWA 345KV         3374167         0.00016 [SPS         MUSTANG 119KV         300         0.428           AEPW         KLD33 68KV         3374167         0.00004 [SPS         MUSTANG 119KV         300         0.428           AEPW         LEBEROCK 346KV         132         0.00005 [SPS         MUSTANG 119KV         300         0.428           AEPW         LEBEROK 346KV         132         0.00005 [SPS         MUSTANG 119KV         300         0.428           AEPW         LUBERMAN 138KV         224         0.00005 [SPS         MUSTANG 119KV         300         0.428           SPS         LP-HOLIZ 69KV         122         0.0023 [SPS         MUSTANG 119KV         300         0.428           SPS         LP-HOLIZ 69KV         122         0.0023 [SPS         MUSTANG 119KV         300         0.428           SPS         MUD-CONTRENT 138KV         1421         0.00021 [SPS         MUSTANG 119KV         300         0.428           SPS         MUD-CONTREN	94         -0.42937           94         -0.42946           94         -0.43006           94         -0.430           94         -0.42998           94         -0.42998           94         -0.42999           94         -0.42999           94         -0.432           94         -0.4321           94         -0.43221           94         -0.42928           94         -0.42863
WEPL         JUDSON LARGE 115KV         33 20866         0.0046 [SPS         MUSTANG 115KV         300         0.422           AEPW         KIOWA 345KV         1348         0.0001 [SPS         MUSTANG 115KV         300         0.423           AEPW         KAD13 69KV         337 167         0.00006 [SPS         MUSTANG 115KV         300         0.423           AEPW         LEBROCK 345KV         13         0.00004 [SPS         MUSTANG 115KV         300         0.423           AEPW         LEBROCK 345KV         122         0.00005 [SPS         MUSTANG 115KV         300         0.423           AEPW         LEBROCK 345KV         122         0.00005 [SPS         MUSTANG 115KV         300         0.423           AEPW         LONESTAR POWER PLANT 69KV         132         0.00025 [SPS         MUSTANG 115KV         300         0.423           SPS         LP-HALCZ 69KV         210         0.0022 [SPS         MUSTANG 115KV         300         0.423           SPS         MOORE COUNTY 115KV         210         0.0023 [SPS         MUSTANG 115KV         300         0.423           SPS         MOORE COUNTY 115KV         210         0.0023 [SPS         MUSTANG 115KV         300         0.423           SPS <td< td=""><td>94         -0.42946           94         -0.43006           94         -0.43           94         -0.43           94         -0.42998           94         -0.433           94         -0.42999           94         -0.433           94         -0.4323           94         -0.42231           94         -0.42298           94         -0.42233           94         -0.42663</td></td<>	94         -0.42946           94         -0.43006           94         -0.43           94         -0.43           94         -0.42998           94         -0.433           94         -0.42999           94         -0.433           94         -0.4323           94         -0.42231           94         -0.42298           94         -0.42233           94         -0.42663
AEPW         KIOWA 346KV         1348         0.00012[SPS         MUSTANG 115KV         300         0.42           AEPW         LAD15 69KV         337.8167         0.0006[SPS         MUSTANG 115KV         300         0.42           AEPW         LEBROCK 346KV         132         0.0006[SPS         MUSTANG 115KV         300         0.42           AEPW         LEBROCK 346KV         122         0.0005[SPS         MUSTANG 115KV         300         0.42           AEPW         LEBRERMAN 138KV         224         0.0005[SPS         MUSTANG 115KV         300         0.42           SPS         LP-HOLL2 69KV         122         0.0023[SPS         MUSTANG 115KV         300         0.42           SPS         LP-MACK2 69KV         120         0.0023[SPS         MUSTANG 115KV         300         0.42           SPS         MUD-CONTINENT 138KV         142.11         0.0004[SPS         MUSTANG 115KV         300         0.42           SPS         MUD-CONTINENT 138KV         142.11         0.0003[SPS         MUSTANG 115KV         300         0.42           SPS         MUCRAMS 69KV         231         0.0003[SPS         MUSTANG 115KV         300         0.42           SPS         MURCHALE 5325KV         231	94 -0.43006 94 -0.43 94 -0.42998 94 -0.42998 94 -0.42999 94 -0.42999 94 -0.432 94 -0.43221 94 -0.43221 94 -0.4323 94 -0.4328 94 -0.42988 94 -0.42663
AEPW         KNOXLEE 138KV         337.817         0.0006 SPS         MUSTANG 115KV         300         0.42           AEPW         LEBROKX 345KV         132         0.0006 SPS         MUSTANG 115KV         300         0.42           AEPW         LEBROKX 345KV         132         0.0006 SPS         MUSTANG 115KV         300         0.42           AEPW         LEBROKX 135KV         224         0.0005 SPS         MUSTANG 115KV         300         0.42           AEPW         LONESTAR POWER PLANT 69KV         50         0.0025 SPS         MUSTANG 115KV         300         0.42           SPS         LP-MACK2 69KV         132         0.00225 SPS         MUSTANG 115KV         300         0.42           SPS         MD-CONTINENT 138KV         142.11         0.00024 SPS         MUSTANG 115KV         300         0.42           SPS         MOCRE COUNTY 115KV         48         0.00131 SPS         MUSTANG 115KV         300         0.42           SPS         NCHOLS 115KV         213         0.0007 SPS         MUSTANG 115KV         300         0.42           SPS         NCHOLS 115KV         213         0.0007 SPS         MUSTANG 115KV         300         0.42           SPS         NCHOLS 15KV	94 -0.43 94 -0.42998 94 -0.43 94 -0.43 94 -0.42999 94 -0.43221 94 -0.43221 94 -0.4323 94 -0.4323 94 -0.4298 94 -0.42863
AEPW         L&D13 @8KV         13         0.00004 SPS         MUSTANG 115KV         300         0.42           AEPW         LEBROCK 345KV         121         0.00005 SPS         MUSTANG 115KV         300         0.42           AEPW         LEBROCK 345KV         224         0.00005 SPS         MUSTANG 115KV         300         0.42           AEPW         LONESTAR POWER PLANT 68KV         50         0.00005 SPS         MUSTANG 115KV         300         0.42           SPS         LP-HOLL2 69KV         122         0.00223 SPS         MUSTANG 115KV         300         0.42           SPS         LP-MACK2 69KV         20         0.00236 SPS         MUSTANG 115KV         300         0.42           SPS         MOORE COUNTY 115KV         48         0.00131 SPS         MUSTANG 115KV         300         0.42           SPS         NICHOLS 115KV         213         0.0012 SPS         MUSTANG 115KV         300         0.42           SPS         NICHOLS 115KV         213         0.0012 SPS         MUSTANG 115KV         300         0.42           AEPW         NORTH MRSHALL 68KV         21         0.0003 SPS         MUSTANG 115KV         300         0.42           SPS         NICHOLS 115KV         214 </td <td>94 -0.42998 94 -0.43 94 -0.42999 94 -0.43 94 -0.43221 94 -0.43221 94 -0.4323 94 -0.4298 94 -0.42863</td>	94 -0.42998 94 -0.43 94 -0.42999 94 -0.43 94 -0.43221 94 -0.43221 94 -0.4323 94 -0.4298 94 -0.42863
AEPW         LEBROKX 345KV         112         0.00006 SPS         MUSTANG 115KV         300         0.42           AEPW         LIGERRMAN 138KV         224         0.00005 SPS         MUSTANG 115KV         300         0.42           AEPW         LONESTAR POWER PLANT 69KV         122         0.00005 SPS         MUSTANG 115KV         300         0.42           SPS         LP-HOLL2 69KV         122         0.00227 SPS         MUSTANG 115KV         300         0.42           SPS         LP-MACK2 69KV         20         0.00236 SPS         MUSTANG 115KV         300         0.42           SPS         MOCRE CONTYNENT 138KV         142         1         0.000236 SPS         MUSTANG 115KV         300         0.42           SPS         MIOCAR ECONTY 115KV         142         1         0.0007 SPS         MUSTANG 115KV         300         0.42           SPS         NICHOLS 115KV         213         0.0012 SPS         MUSTANG 115KV         300         0.42           SPS         NICHOLS 200KV         244         0.0012 SPS         MUSTANG 115KV         300         0.42           SPS         NICHOLS 200KV         244         0.0012 SPS         MUSTANG 115KV         300         0.42           SPS	94 -0.43 94 -0.42999 94 -0.43 94 -0.43221 94 -0.4323 94 -0.4323 94 -0.42998 94 -0.42998
AEPW         LIEBERMAN 138KV         224         -0.0005 SPS         MUSTANG 115KV         300         0.42           AEPW         LONESTAR POWER PLANT 66KV         50         -0.0005 SPS         MUSTANG 115KV         300         0.42           SPS         LP-HOLL2 69KV         20         -0.00227 SPS         MUSTANG 115KV         300         0.42           SPS         LP-MACK2 69KV         20         -0.00226 SPS         MUSTANG 115KV         300         0.42           AEPW         MD-CONTINENT 138KV         142.11         -0.00026 SPS         MUSTANG 115KV         300         0.42           SPS         MOCRE COLVITY 115KV         142.11         -0.00007 SPS         MUSTANG 115KV         300         0.42           SPS         NICHOLS 230KV         213         0.0012 SPS         MUSTANG 115KV         300         0.42           SPS         NICHOLS 230KV         244         0.0012 SPS         MUSTANG 115KV         300         0.42           VEPL         NORTH MASHALL 68KV         51         0.00005 SPS         MUSTANG 115KV         300         0.42           SINC         OBERLIN 15KV         142         0.0003 SPS         MUSTANG 115KV         300         0.42           SINC         NORTH MASTANLL	94 -0.42999 94 -0.43 94 -0.43221 94 -0.4323 94 -0.42998 94 -0.42998 94 -0.42863
AEPW         LONESTAR POWER PLANT 69KV         50         -0.0006 SPS         MUSTANG 115KV         300         0.42           SPS         LP-HOLL2 69KV         132         0.00227 SPS         MUSTANG 115KV         300         0.42           SPS         LP-MACK2 69KV         20         0.00236 SPS         MUSTANG 115KV         300         0.42           AEPW         MD-CONTINENT 138KV         142.11         0.0004 SPS         MUSTANG 115KV         300         0.42           AEPW         MOORE COUNTY 115KV         448         0.0013 SPS         MUSTANG 115KV         300         0.42           AEPW         NARROWS 69KV         30         0.0007 SPS         MUSTANG 115KV         300         0.42           SPS         NICHOLS 115KV         213         0.0012 SPS         MUSTANG 115KV         300         0.42           SPS         NICHOLS 230KV         244         0.0012 SPS         MUSTANG 115KV         300         0.42           AEPW         NORTH MARSHALL 69KV         14.24         0.0004 SPS         MUSTANG 115KV         300         0.42           SPS         NICHLAS 230KV         14.24         0.0004 SPS         MUSTANG 115KV         300         0.42           AEPW         NORTH MARSHALL 69KV <td>94 -0.43 94 -0.43221 94 -0.4323 94 -0.42998 94 -0.42863</td>	94 -0.43 94 -0.43221 94 -0.4323 94 -0.42998 94 -0.42863
SPS         LP-HOLL2 69KV         112         0.00227 SPS         MUSTANG 115KV         300         0.42           SPS         LP-MACK2 69KV         20         0.00236 SPS         MUSTANG 115KV         300         0.42           AEPW         MD-CONTINENT 138KV         142.11         0.00036 SPS         MUSTANG 115KV         300         0.42           SPS         MOORE COUNTY 115KV         481         0.01131 SPS         MUSTANG 115KV         300         0.42           AEPW         NARROWS 69KV         301         0.0007 SPS         MUSTANG 115KV         300         0.42           SPS         NICHOLS 135KV         213         0.0012 SPS         MUSTANG 115KV         300         0.42           SPS         NICHOLS 230KV         244         0.0012 SPS         MUSTANG 115KV         300         0.42           AEPW         NORTH MARSHALL 68KV         51         0.00003 SPS         MUSTANG 115KV         300         0.42           AEPW         NORTH KESTERN STATION 138KV         161         0.0003 SPS         MUSTANG 115KV         300         0.42           SURC         OBERLIN 115KV         4.431         0.0003 SPS         MUSTANG 115KV         300         0.42           SURC         OBERLIN 115KV	94 -0.43221 94 -0.4323 94 -0.42998 94 -0.42863
SPS         LP-MACK2 69KV         20         -0.00286 SPS         MUSTANG 115KV         300         0.42           AEPW         MD-CONTINENT 138KV         142.11         -0.00046 SPS         MUSTANG 115KV         300         0.42           SPS         MOORE COUNTY 115KV         48         0.0013 SPS         MUSTANG 115KV         300         0.42           SPS         NICHOLS 115KV         213         0.0007 SPS         MUSTANG 115KV         300         0.42           SPS         NICHOLS 200KV         213         0.0012 SPS         MUSTANG 115KV         300         0.42           SPS         NICHOLS 200KV         244         0.0012 SPS         MUSTANG 115KV         300         0.42           SPS         NICHOLS 200KV         244         0.0012 SPS         MUSTANG 115KV         300         0.42           SPS         NICHOLS 200KV         14.24         0.0004 SPS         MUSTANG 115KV         300         0.42           MEPU         NORTHEASTERN STATION 345KV         114.24         0.00014 SPS         MUSTANG 115KV         300         0.42           SLNC         OBERLIN 115KV         101         1.00004 SPS         MUSTANG 115KV         300         0.42           AEPW         NORTHEASTERN STATION 34	94 -0.4323 94 -0.42998 94 -0.42863
SPS         LP-MACK2 69KV         20         -0.00286 SPS         MUSTANG 115KV         300         0.42           AEPW         MD-CONTINENT 138KV         142.11         -0.00046 SPS         MUSTANG 115KV         300         0.42           SPS         MOORE COUNTY 115KV         48         0.0013 SPS         MUSTANG 115KV         300         0.42           SPS         NICHOLS 115KV         213         0.0007 SPS         MUSTANG 115KV         300         0.42           SPS         NICHOLS 200KV         213         0.0012 SPS         MUSTANG 115KV         300         0.42           SPS         NICHOLS 200KV         244         0.0012 SPS         MUSTANG 115KV         300         0.42           SPS         NICHOLS 200KV         244         0.0012 SPS         MUSTANG 115KV         300         0.42           SPS         NICHOLS 200KV         14.24         0.0004 SPS         MUSTANG 115KV         300         0.42           MEPU         NORTHEASTERN STATION 345KV         114.24         0.00014 SPS         MUSTANG 115KV         300         0.42           SLNC         OBERLIN 115KV         101         1.00004 SPS         MUSTANG 115KV         300         0.42           AEPW         NORTHEASTERN STATION 34	94 -0.4323 94 -0.42998 94 -0.42863
AEPW         MID-CONTINENT 138/V         114.211         -0.0004 SPS         MUSTANG 15KV         300         0.423           SPS         MOORE COUNTY 15KV         481         0.00013 SPS         MUSTANG 15KV         300         0.424           AEPW         NARROWS 69KV         301         -0.0007 SPS         MUSTANG 15KV         300         0.424           SPS         NICHOLS 15KV         213         0.0012 SPS         MUSTANG 15KV         300         0.425           SPS         NICHOLS 230KV         244         0.0012 SPS         MUSTANG 15KV         300         0.425           SPS         NICHOLS 230KV         244         0.0012 SPS         MUSTANG 15KV         300         0.425           AEPW         NORTH MARSHALL 68KV         51         0.00005 SPS         MUSTANG 15KV         300         0.425           AEPW         NORTH EASTERN STATION 346KV         101         0.00004 SPS         MUSTANG 15KV         300         0.425           SURC         OBERLIN 16KV         4.31         0.00004 SPS         MUSTANG 15KV         300         0.425           SURC         OBERLIN 16KV         4.31         0.00005 SPS         MUSTANG 15KV         300         0.425           SURC         OBERLIN 16KV	94 -0.42998 94 -0.42863
SPS         MOORE COUNTY 115KV         44         0.00131 SPS         MUSTANG 115KV         300         0.42           AEPW         NARROWS 69KV         30         0.0007 SPS         MUSTANG 115KV         300         0.42           SPS         NICHOLS 115KV         213         0.0012 SPS         MUSTANG 115KV         300         0.42           SPS         NICHOLS 115KV         213         0.0012 SPS         MUSTANG 115KV         300         0.42           AEPW         NORTH MARSHALL 69KV         244         0.00024 SPS         MUSTANG 115KV         300         0.42           AEPW         NORTH MARSHALL 69KV         14.24         0.00024 SPS         MUSTANG 115KV         300         0.42           MEPL         NORTH EASTERN STATION 138KV         101         0.00004 SPS         MUSTANG 115KV         300         0.42           AEPW         NORTHEASTERN STATION 345KV         4.310         0.00004 SPS         MUSTANG 115KV         300         0.42           AEPW         ODE A43KV         172.033         0.00005 SPS         MUSTANG 115KV         300         0.42           AEPW         ODE A45KV         172.033         0.00005 SPS         MUSTANG 115KV         300         0.42           AEPW         OD	94 -0.42863
AEPW         NARROWS 69KV         30         -0.0007/SPS         MUSTANG 115KV         300         0.42           SPS         NICHOLS 115KV         213         -0.0012/SPS         MUSTANG 115KV         300         0.42           SPS         NICHOLS 230KV         244         0.0012/SPS         MUSTANG 115KV         300         0.42           SPS         NICHOLS 230KV         244         0.0012/SPS         MUSTANG 115KV         300         0.42           MEPL         NORTH MASTALL 68KV         15         0.0006/SPS         MUSTANG 115KV         300         0.42           AEPW         NORTH KESTERN STATION 138KV         144         0.0003/SPS         MUSTANG 115KV         300         0.42           AEFW         NORTH KESTERN STATION 345KV         94.99937         0.00004/SPS         MUSTANG 115KV         300         0.42           AEFW         OBERLIN 115KV         4310         0.00006/SPS         MUSTANG 115KV         300         0.42           AEFW         OBERLIN 115KV         4310         0.00006/SPS         MUSTANG 115KV         300         0.42           AEFW         OMFA-AWHUSKA NORTHEAST 138KV         172.0.6         0.00006/SPS         MUSTANG 115KV         300         0.42           AEFW	
SPS         NICHOLS 115KV         213         0.0012 SPS         MUSTANG 115KV         300         0.42           SPS         NICHOLS 20KV         244         0.0012 SPS         MUSTANG 115KV         300         0.42           AEPW         NORTH MARSHALL 60KV         5         0.00005 SPS         MUSTANG 115KV         300         0.42           MEPL         NORTH MARSHALL 60KV         5         0.00004 SPS         MUSTANG 115KV         300         0.42           MEPL         NORTH MARSHALL 60KV         14.24         0.0004 SPS         MUSTANG 115KV         300         0.42           AEPW         NORTHEASTERN STATION 345KV         94.9997         0.00004 SPS         MUSTANG 115KV         300         0.42           AEPW         NORTHEASTERN STATION 345KV         44.31         0.0003 SPS         MUSTANG 115KV         300         0.42           AEPW         OBC 345KV         172.03         0.00005 SPS         MUSTANG 115KV         300         0.42           AEPW         OBC 345KV         172.03         0.00005 SPS         MUSTANG 115KV         300         0.42           AEPW         OBR-PAPAWHUSKA NORTHEAST 138KV         75.9         0.00005 SPS         MUSTANG 115KV         300         0.42           SPS <td></td>	
SPS         NICHOLS 230KV         244         0.00124 [SPS         MULTANG 115KV         300         0.42           AEPW         NORTH MARSHALL 68KV         5         0.00006 [SPS         MUSTANG 115KV         300         0.42           WEPL         NORTH MARSHALL 68KV         101         0.0004 [SPS         MUSTANG 115KV         300         0.42           AEPW         NORTH MARSHALL 68KV         101         0.0004 [SPS         MUSTANG 115KV         300         0.42           AEFW         NORTHEASTERN STATION 345KV         94.9997         0.0004 [SPS         MUSTANG 115KV         300         0.42           AEFW         NORTHEASTERN STATION 345KV         94.9997         0.0003 [SPS         MUSTANG 115KV         300         0.42           AEFW         OEC 345V         1728.03         0.00005 [SPS         MUSTANG 115KV         300         0.42           AEFW         OBFA-PAWHUSKA NORTHEAST 138KV         6.9         0.00005 [SPS         MUSTANG 115KV         300         0.42           AEFW         PIRKEY GENERATION 138KV         57         0.00002 [SPS         MUSTANG 115KV         300         0.42           AEFW         PIRKEY GENERATION 138KV         57         0.00002 [SPS         MUSTANG 115KV         300         0.42 </td <td></td>	
AEPW         NORTH MARSHALL 66V/         5         -0.000615PS         MUSTANG 115KV         300         0.42           WEPL         NORTH WEST GREAT BEND 115KV         14.24         0.00034 SPS         MUSTANG 115KV         300         0.42           AEPW         NORTH-EASTERN STATION 138KV         101         0.00034 SPS         MUSTANG 115KV         300         0.42           AEPW         NORTH-EASTERN STATION 138KV         94.99997         0.00034 SPS         MUSTANG 115KV         300         0.42           SUNC         OBERLIN 115KV         43.1         0.00038 SPS         MUSTANG 115KV         300         0.42           AEPW         OMPA-PAWHUSKA NORTHEAST 138KV         172.03         -0.00005 SPS         MUSTANG 115KV         300         0.42           AEPW         OMPA-PAWHUSKA NORTHEAST 138KV         6.3         -0.00005 SPS         MUSTANG 115KV         300         0.42           AEPW         OMPA-PAWHUSKA NORTHEAST 138KV         75         -0.00005 SPS         MUSTANG 115KV         300         0.42           SPS         PLANTX 115KV         48         0.0021 SPS         MUSTANG 115KV         300         0.42           SPS         PLANTX 115KV         442         0.00021 SPS         MUSTANG 115KV         300         0.4	
WEPL         NORTH-WEST GREAT BEND 115KV         14.24         0.00034 SPS         MUSTANG 115KV         300         0.42           AEPW         NORTH-EASTERN STATION 138KV         101         0.00034 SPS         MUSTANG 115KV         300         0.42           AEPW         NORTH-EASTERN STATION 138KV         94.9997         0.0004 SPS         MUSTANG 115KV         300         0.42           AEPW         NORTH-EASTERN STATION 345KV         94.9997         0.0003 SPS         MUSTANG 115KV         300         0.42           AEPW         OEC 345V         4.31         0.0003 SPS         MUSTANG 115KV         300         0.42           AEPW         OEC 345V         75         0.00005 SPS         MUSTANG 115KV         300         0.42           AEPW         PIRKEY GENERATION 138KV         575         0.00005 SPS         MUSTANG 115KV         300         0.42           XFS         FLANTX 115KV         579         0.00005 SPS         MUSTANG 115KV         300         0.42           WEPL         PLINVILLE 115KV         579         0.00024 SPS         MUSTANG 115KV         300         0.42           SPS         RIVERNEDE STATION 138KV         480         0.0001 SPS         MUSTANG 115KV         300         0.42	
AEPW         NORTHEASTERN STATION 138KV         101         0.00004 SPS         MUSTANG 115KV         300         0.42           AEPW         NORTHEASTERN STATION 138KV         94.9997         0.00004 SPS         MUSTANG 115KV         300         0.42           SUNC         OBERLIN 115KV         4.31         0.00034 SPS         MUSTANG 115KV         300         0.42           AEPW         OEC 345KV         123.00         0.0005 SPS         MUSTANG 115KV         300         0.42           AEPW         OMPA-PAWHUSKA NORTHEAST 138KV         123.00         0.0005 SPS         MUSTANG 115KV         300         0.42           AEPW         OMPA-PAWHUSKA NORTHEAST 138KV         6.9         0.00005 SPS         MUSTANG 115KV         300         0.42           AEPW         PIRKEY GENERATION 138KV         7.9         0.00025 SPS         MUSTANG 115KV         300         0.42           SPS         PLANTX 115KV         4.48         0.0021 SPS         MUSTANG 115KV         300         0.42           SPS         PLANTX 115KV         4.48         0.0021 SPS         MUSTANG 115KV         300         0.42           SPS         RIVERVIEW 66KV         2.3         0.00123 SPS         MUSTANG 115KV         300         0.42	
AEPW         NORTHEASTERN STATION 345KV         94.9997         -0.0004 (SPS         MUSTANG 115KV         300         0.42           SUNC         OBERLIN 115KV         4.31         0.0008] SPS         MUSTANG 115KV         300         0.42           AEPW         OEC 345KV         172.83         -0.0006] SPS         MUSTANG 115KV         300         0.42           AEPW         OMPA-PAWHUSKA NORTHEAST 138KV         6.9         -0.0005         SPS         MUSTANG 115KV         300         0.42           AEPW         PIRKEY GENERATION 138KV         7.5         -0.0005         SPS         MUSTANG 115KV         300         0.42           AEPW         PIRKEY GENERATION 138KV         7.5         -0.0005         SPS         MUSTANG 115KV         300         0.42           SPS         PLANTX 115KV         44         0.0021         SPS         MUSTANG 115KV         300         0.42           SPS         RIVERVIEW 66KV         23         0.0123         SPS         MUSTANG 115KV         300         0.42           SPS         RIVERVIEW 66KV         23         0.0123         SPS         MUSTANG 115KV         300         0.42           SPS         RIVERVIEW 66KV         23         0.00123         SPS	94 -0.4296
SUNC         OBERLIN 115KV         4.31         0.00038 [SPS         MUSTANG 115KV         300         0.42           AEPW         OEC 345KV         1728.03         0.00068 [SPS         MUSTANG 115KV         300         0.42           AEPW         OMPA-PAWHUSKA NORTHEAST 138KV         6.9         0.00068 [SPS         MUSTANG 115KV         300         0.42           AEPW         PIRKEY GENERATION 138KV         75         0.00068 [SPS         MUSTANG 115KV         300         0.42           AEPW         PIRKEY GENERATION 138KV         75         0.00068 [SPS         MUSTANG 115KV         300         0.42           SPS         PLANTX 115KV         5.79         0.00026 [SPS         MUSTANG 115KV         300         0.42           SPS         PLANTX 115KV         48         0.0021 [SPS         MUSTANG 115KV         300         0.42           SPS         RIVERVIEW 68KV         23         0.00123 [SPS         MUSTANG 115KV         300         0.42           SPS         RIVERVIEW 68KV         27.9         0.00028 [SPS         MUSTANG 115KV         300         0.42           SPS         RIVERVIEW 68KV         27.9         0.00028 [SPS         MUSTANG 115KV         300         0.42           SPS         S	94 -0.42998
SUNC         OBERLIN 115KV         4.31         0.00038 [SPS         MUSTANG 115KV         300         0.42           AEPW         OEC 345KV         1728.03         0.00068 [SPS         MUSTANG 115KV         300         0.42           AEPW         OMPA-PAWHUSKA NORTHEAST 138KV         6.9         0.00068 [SPS         MUSTANG 115KV         300         0.42           AEPW         PIRKEY GENERATION 138KV         75         0.00068 [SPS         MUSTANG 115KV         300         0.42           AEPW         PIRKEY GENERATION 138KV         75         0.00068 [SPS         MUSTANG 115KV         300         0.42           SPS         PLANTX 115KV         5.79         0.00026 [SPS         MUSTANG 115KV         300         0.42           SPS         PLANTX 115KV         48         0.0021 [SPS         MUSTANG 115KV         300         0.42           SPS         RIVERVIEW 68KV         23         0.00123 [SPS         MUSTANG 115KV         300         0.42           SPS         RIVERVIEW 68KV         27.9         0.00028 [SPS         MUSTANG 115KV         300         0.42           SPS         RIVERVIEW 68KV         27.9         0.00028 [SPS         MUSTANG 115KV         300         0.42           SPS         S	94 -0.42998
AEPW         OEC.345V/         172.03         0.0006 SPS         MUSTANG 115KV         300         0.42           AEPW         OMPA-PAWHUSKA NORTHEAST 138KV         6.9         0.0006 SPS         MUSTANG 115KV         300         0.42           AEPW         PIRKEY GENERATION 138KV         75         0.0006 SPS         MUSTANG 115KV         300         0.42           AEPW         PIRKEY GENERATION 138KV         75         0.0005 SPS         MUSTANG 115KV         300         0.42           WEPL         PLANTX 115KV         5.79         0.00024 SPS         MUSTANG 115KV         300         0.42           AEPW         RIVERSIDE STATION 138KV         48         0.0021 SPS         MUSTANG 115KV         300         0.42           SPS         RIVERNIEW 66KV         23         0.0012 SPS         MUSTANG 115KV         300         0.42           SPS         RIVERVIEW 66KV         23         0.0012 SPS         MUSTANG 115KV         300         0.42           SPS         RIVERVIEW 66KV         23         0.00123 SPS         MUSTANG 115KV         300         0.42           SPS         RIVERNEW 66KV         27         0.00028 SPS         MUSTANG 115KV         300         0.42           SUST         RUSSTANG 11	
AEPW         OMPA-PAWHUSKA NORTHEAST 138V/         6.9         -0.0005 SPS         MUSTANG 115V/         300         0.42           AEPW         PIRKEY GENERATION 138V/         75         -0.0006 SPS         MUSTANG 115V/         300         0.42           WEPL         PLAINVILLE 115K/         5.79         0.0002 SPS         MUSTANG 115K/         300         0.42           SPS         PLAINVILLE 115K/         5.79         0.0002 SPS         MUSTANG 115K/         300         0.42           SPS         PLANTX 115K/         48         0.0021 SPS         MUSTANG 115K/         300         0.42           SPS         TRUERVIEW 68K/         23         0.00123 SPS         MUSTANG 115K/         300         0.42           SPS         RIVERVIEW 68K/         23         0.00123 SPS         MUSTANG 115K/         300         0.42           SPS         RIVERVIEW 68K/         27.9         0.00028 SPS         MUSTANG 115K/         300         0.42           SPS         RIVERVIEW 68K/         172         0.00028 SPS         MUSTANG 115K/         300         0.42           SUNC         SHARON SPIRINGS 115K/         2.51         0.00058 SPS         MUSTANG 115K/         300         0.42           SPS         SIDRCH 6	
AEPW         PIRKEY GENERATION 138KV         75         -0.0006 SPS         MUSTANG 115KV         300         0.42           VEPL         PLANVLL 115KV         5.79         0.00024 SPS         MUSTANG 115KV         300         0.42           SPS         PLANTX 115KV         48         0.0021 SPS         MUSTANG 115KV         300         0.42           SPS         PLANTX 115KV         48         0.0021 SPS         MUSTANG 115KV         300         0.42           SPS         RUFERVIEW 60KV         230         0.00123 SPS         MUSTANG 115KV         300         0.42           SPS         RUFERVIEW 60KV         230         0.00123 SPS         MUSTANG 115KV         300         0.42           MEPL         RUSSELL 115KV         27.9         0.00028 SPS         MUSTANG 115KV         300         0.42           SURC         SHARON SPRINGS 115KV         27.9         0.00026 SPS         MUSTANG 115KV         300         0.42           SURC         SHARON SPRINGS 115KV         27.9         0.00026 SPS         MUSTANG 115KV         300         0.42           SURC         SHARON SPRINGS 115KV         25.0         0.000128 SPS         MUSTANG 115KV         300         0.42           SURC         SHARON SPRING	
WEPL         PLAINVILE         115KV'         5.79         0.00024         SPS         MUSTANG         115KV'         300         0.422           SPS         PLAINTX         115KV'         44         0.0021         SPS         MUSTANG         115KV'         300         0.422           AEPW         RIVERSIDE STATION         138KV'         462         0.0006         SPS         MUSTANG         115KV'         300         0.422           SPS         RIVERVIEW 66KV         23         0.00123         SPS         MUSTANG         115KV         300         0.422           SPS         RIVERVIEW 66KV         23         0.00123         SPS         MUSTANG         115KV         300         0.422           SPS         RIVERVIEW 66KV         27.9         0.00028         SPS         MUSTANG         115KV         300         0.422           SUNC         SHARON SPIRNOS         115KV         27.9         0.000052         SPS         MUSTANG         115KV         300         0.422           SUNC         SHARON SPIRNOS         115KV         2.51         0.000052         SPS         MUSTANG         115KV         300         0.422           SPS         SIDRCH 68KV         6	
SPS         PLANTX 115KV         448         0.0021 SPS         MUSTANG 115KV         300         0.42           AEPW         RIVERSUE STATION 136KV         462         0.0006 SPS         MUSTANG 115KV         300         0.42           SPS         RIVERVIEW 60KV         23         0.00123 SPS         MUSTANG 115KV         300         0.42           SPS         RIVERVIEW 60KV         23         0.00123 SPS         MUSTANG 115KV         300         0.42           MEPL         RUSSELL 115KV         27.9         0.00026 SPS         MUSTANG 115KV         300         0.42           SUNC         SHARON SPRINGS 115KV         27.9         0.00026 SPS         MUSTANG 115KV         300         0.42           SUNC         SHARON SPRINGS 115KV         2.5         0.00025 SPS         MUSTANG 115KV         300         0.42           SUNC         SHARON SPRINGS 115KV         2.5         0.00025 SPS         MUSTANG 115KV         300         0.42           SPS         SIDRCH 69KV         6         0.00025 SPS         MUSTANG 115KV         300         0.42           WEPL         SMITH CONTRE 115KV         6         0.0012 SPS         MUSTANG 115KV         300         0.42           WEPL         SUTH DODGE 115KV </td <td></td>	
AEPW         IRVERSIDE STATION 138KV         462         0.0006         SPS         INUETANG 115KV         300         0.42           SPS         IRVERVIEW 60KV         23         0.00123         SPS         INUSTANG 115KV         300         0.42           WEPL         RUSSELL 115KV         27.9         0.00028         SPS         INUSTANG 115KV         300         0.42           SUPC         RVRSIDEG13.8         138KV         27.9         0.00028         SPS         INUSTANG 115KV         300         0.42           SUNC         SNARON SPRINGS         115KV         27.9         0.00028         SPS         INUSTANG 115KV         300         0.42           SUNC         SHARON SPRINGS         115KV         2.5         0.00028         SPS         INUSTANG 115KV         300         0.42           SPS         SIDRCH 69KV         6.1         0.00128         SPS         INUSTANG 115KV         300         0.42           VEPL         SMITH CENTER 115KV         6.15         0.00028         SPS         INUSTANG 115KV         300         0.42           WEPL         SOUTH DODGE 115KV         4.2         0.00048         SPS         INUSTANG 115KV         300         0.42           AEPW	
SPS         INVERVIEW 68KV         23         0.00123         SPS         IMUSTANG 115KV         300         0.42           WEPL         IRVSSELL 115KV         27.9         0.00028         SPS         IMUSTANG 115KV         300         0.42           AEPW         IRVRSIDEG13.8         138KV         27.9         0.00028         SPS         IMUSTANG 115KV         300         0.42           SUNC         SHARON SPRINGS 115KV         2.7         0.00028         SPS         IMUSTANG 115KV         300         0.42           SUNC         SHARON SPRINGS 115KV         2.2         0.00028         SPS         MUSTANG 115KV         300         0.42           SPS         SIDRCH 69KV         6         0.00123         SPS         MUSTANG 115KV         300         0.42           WEPL         SMITH CONTER 115KV         6         0.00123         SPS         MUSTANG 115KV         300         0.42           WEPL         SOUTH DODGE 115KV         4.2         0.00012         SPS         MUSTANG 115KV         300         0.42           AEPW         SOUTH DODGE 115KV         4.2         0.00012         SPS         MUSTANG 115KV         300         0.42           SPS         TOLK 236KV         56.72763	
WEPL         RUSSELL 115KV         27.9         0.00028 [SPS         MULTANG 115KV         300         0.42           AEPW         (RVRSIDEG13.8 138KV'         172         -0.00028 [SPS         MUSTANG 115KV         300         0.42           SUNC         SHARON SPRINGS 115KV         2.5         0.00028 [SPS         MUSTANG 115KV         300         0.42           SPS         SIDRCH 69KV         6         0.00123 [SPS         MUSTANG 115KV         300         0.42           VEPL         SMITH CENTER 115KV         6.15         0.00028 [SPS         MUSTANG 115KV         300         0.42           WEPL         SOUTH DODGE 115KV         6.15         0.00028 [SPS         MUSTANG 115KV         300         0.42           WEPL         SOUTH DODGE 115KV         4.2         0.00048 [SPS         MUSTANG 115KV         300         0.42           SPS         TOLK 230KV         67.3         -0.00012 [SPS         MUSTANG 115KV         300         0.42           SPS         TOLK 230KV         65.72763         -0.00012 [SPS         MUSTANG 115KV         300         0.42	
AEPW         INVRSIDEG13.8 138KV         112         0.00006 [SPS         MULTANG 115KV         300         0.42           SUNC         (SHARON SPINDS 115KV'         2.5         0.00063 [SPS         MULTANG 115KV'         300         0.42           SPS         SIDRCH 69KV'         6         0.00123 [SPS         MUSTANG 115KV'         300         0.42           WEPL         SMITH CENTER 115KV'         6:15         0.0022 [SPS         MUSTANG 115KV'         300         0.42           WEPL         SMITH CENTER 115KV'         6:15         0.0022 [SPS         MUSTANG 115KV'         300         0.42           WEPL         SOUTH DODEG 115KV'         4.2         0.00048 [SPS         MUSTANG 115KV'         300         0.42           SPS         TOLK 236KV'         65.72763         0.00012 [SPS         MUSTANG 115KV'         300         0.42           SPS         TOLK 236KV'         56.72763         0.00012 [SPS         MUSTANG 115KV'         300         0.42	
SUNC         SHARON SPRINGS 115KV'         2.5         0.00052 SPS         MUSTANG 115KV'         300         0.422           SPS         SIDRCH 69KV'         6         0.00123 SPS         MUSTANG 115KV'         300         0.422           WEPL         SMITH CENTER 115KV'         6.15         0.00023 SPS         MUSTANG 115KV'         300         0.422           WEPL         SOUTH DODGE 115KV'         6.15         0.00023 SPS         MUSTANG 115KV'         300         0.422           MEPL         SOUTH DODGE 115KV'         4.2         0.00048 SPS         MUSTANG 115KV'         300         0.422           AEPW         SOUTHWESTERN STATION 138KV'         673         -0.00012 SPS         MUSTANG 115KV'         300         0.422           SPS         TOLK 230KV'         65.72763         -0.00353 SPS         MUSTANG 115KV'         300         0.422	94 -0.42966
SURC         SHARON SPRINGS 115KV'         2.5         0.00052         SPS         MUSTANG 115KV'         300         0.422           SPS         SIDRCH 68KV         6         0.00123         SPS         MUSTANG 115KV'         300         0.422           SPS         SIDRCH 68KV         6         0.00123         SPS         MUSTANG 115KV'         300         0.422           WEPL         SMITH CENTER 115KV'         6.15         0.0002         SPS         MUSTANG 115KV'         300         0.422           WEPL         SOUTH DODGE 115KV'         4.2         0.00048         SPS         MUSTANG 115KV'         300         0.422           AEPW         SOUTHWESTERN STATION 138KV'         673         -0.00012         SPS         MUSTANG 115KV'         300         0.422           SPS         TOLK 230KV'         56.72763         -0.00035         SPS         MUSTANG 115KV'         300         0.422	94 -0.43
SPS         SIDRCH 68KV         6         0.00123 [SPS         IMUSTANG 115KV         300         0.42           WEPL         (SMITH CENTER 115KV'         6.15         0.0002 [SPS         IMUSTANG 115KV'         300         0.42           WEPL         (SOUTH DODGE 115KV'         4.2         0.00048 [SPS         IMUSTANG 115KV'         300         0.42           AEPW         (SOUTH WESTERN STATION 138KV'         6.73         -0.00012 [SPS         IMUSTANG 115KV'         300         0.42           SPS         TOLK 236KV'         65.72763         -0.00012 [SPS         MUSTANG 115KV'         300         0.42	
WEPL         SMITH CENTER 115KV         6.15         0.0002 SPS         MUSTANG 115KV         300         0.423           WEPL         SOUTH DDDGE 115KV         4.2         0.00048 [SPS         MUSTANG 115KV         300         0.423           AEPW         SOUTH WESTERN STATION 138KV         673         -0.00012 [SPS         MUSTANG 115KV         300         0.423           SPS         TOLK 230KV         67.3         -0.00012 [SPS         MUSTANG 115KV         300         0.423	
WEPL         SOUTH DODGE 115KV         4.2         0.00048] SPS         MUSTANG 115KV         300         0.42           AEPW         SOUTH WESTERN STATION 138KV         673         -0.00012] SPS         MUSTANG 115KV         300         0.42           SPS         TOLK 236KV         56.72763         0.00353] SPS         MUSTANG 115KV         300         0.42	
AEPW         SOUTHWESTERN STATION 138KV         673         -0.00012         SPS         MUSTANG 115KV         300         0.425           SPS         TOLK 230KV         56.72763         0.00353         SPS         MUSTANG 115KV         300         0.425	
SPS TOLK 230KV 56.72763 0.00353 SPS MUSTANG 115KV 300 0.425	
	94 -0.43006
ISPS I'TLICUMCARI 115KV/ 15 -0.00285 ISPS 'MUSTANG 115KV/ 300 0.420	
AEPW TULSA POWER STATION 138KV' 294 -0.00006 SPS MUSTANG 115KV' 300 0.425	
AEPW TULSA POWER STATION 69KV' 80 -0.00006 SPS MUSTANG 115KV' 300 0.429	94 -0.43
AEPW WELEETKA 138KV 162 -0.00008 SPS MUSTANG 115KV 300 0.425	
AEPW WELSH 345KV 322 -0.00006 SPS MUSTANG 115KV 300 0.422	
AEPW WILKES 198K/ 332 -0.0006 SPS MUSTANG 115K/ 300 0.422	
AEPW WILKES 135KV 3362 1000006 SPS MUSTANG 115KV 300 0.423	
ACT W WILLES 395V 161.0377 0.000051975 MIDSTAND 136V 300 0.423 SPS MADOX 115KV 751-0.63331SPS MIDSTAND 136V 160 0.141	
SPS         MADOX 115KV'         75         0.16383[SPS         (MUSTG5 18.0. 230KV'         50         0.1           DPD         00/bmaxh(Unit 4150)         000000000000000000000000000000000000	
SPS         'CUNNINGHAM 115KV'         93.00244         -0.16067         SPS         MUSTANG 230KV'         160         0.147	
SPS         CUNNINGHAM 115KV         93.00244         -0.16067         SPS         'MUSTG5 118.0 230KV'         50         0.147	
SPS 'MUSTANG 230KV' 150 0.14753 SPS 'MUSTANG 115KV' 300 0.425	
SPS ('CARLSBAD 69KV' 18 -0.07637 SPS (MUSTANG 230KV' 160 0.147	53 -0.2239
SPS 'CARLSBAD 69KV' 18 -0.07637 SPS 'MUSTG5 118.0 230KV' 50 0.147	53 -0.2239
SPS CUNNINGHAM 115KV' 93.00244 -0.16067/SPS PLANTX 115KV' 205 0.00	
SPS //CUNNIGHAM 115KV 93.00244 -0.16067/SPS /PLANTX 230KV 189 0.00	
SPS         CUNNINGHAM 115KV         35.002+4         V.1000/SPS         POINT A 20KV         100         0.000           SPS         CUNNINGHAM 115KV         93.002+4         0.10067/SPS         TOLK 230KV         1023.272         0.000	
SPS         MADOX 115KV'         75         -0.16383 WEPL         A.M. MULLERGREN GENERATOR 115KV'         25         0.000	
SPS         'MADOX 115KV'         75         -0.16383 SPS         'BLACKHAWK 115KV'         220         0.001	
SPS         MADOX 115KV'         75         -0.16383 AEPW         'COGENTRIX 345KV'         200         -0.000	
SPS MADOX 115KV' 75 -0.16383 AEPW COMANCHE 138KV' 160 -0.000	
SPS MADOX 115KV' 75 -0.16383 AEPW COMANCHE 69KV' 63 -0.000	
SPS MADOX 115KV 75 -0.16383 SPS CZ 69KV 35 0.00	26 -0.16357
SPS MADOX 115KV 75 -0.16383 AEPW EASTMAN 138KV 355 -0.00	26 -0.16357 23 -0.1636
SPS (MADOX 115KV) 75 -0.6383/AEPW (FITZHUGH 161KV) 87 -0.000	26 -0.16357 23 -0.1636 12 -0.16495
Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.	26 -0.16357 23 -0.1636 12 -0.16495 06 -0.16377

 Image: Second Second

Upgrade:	Mustang-San Andr-Amerada Hess 115KV								
	DENVER CITY INTERCHANGE S - MUSTANG STATION 115	KV CKT 1							
Direction:	To->From								
Line Outage:	DENVER CITY INTERCHANGE N - MUSTANG STATION 115	KV CKT 1							
Flowgate:	51962519681519605196613407SP								
	6/1/07 - 10/1/07								
Season Flowgate Identified:	2007 Summer Peak								
ž		Aggregate Relief	1						
Reservation		Amount							
1162675	15.4	15.4	1						
				Sink					Aggregate
		Maximum		Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
SPS	CUNNINGHAM 115KV	48.38086	-0.16067	SPS	'MUSTANG 115KV'	300	0.42994	-0.59061	1 26
SPS	'MADOX 115KV'	75	-0.16383	SPS	'MUSTANG 115KV'	300	0.42994	-0.59377	7 26
	'CARLSBAD 69KV'	18	-0.07637	SPS	'MUSTANG 115KV'	300	0.42994	-0.50631	30
AEPW	'AEP-CT0113.8 161KV'	85	-0.00004	SPS	'MUSTANG 115KV'	300	0.42994	-0.42998	3 36
AEPW	'AEP-CT0213.8 161KV'	85	-0.00004	SPS	'MUSTANG 115KV'	300	0.42994	-0.42998	3 36
AEPW	'AEP-CT0313.8 161KV'	85	-0.00004	SPS	'MUSTANG 115KV'	300	0.42994	-0.42998	3 36
AEPW	'AEP-CT0413.8 161KV'	85	-0.00004	SPS	'MUSTANG 115KV'	300	0.42994	-0.42998	3 36
AEPW	'AEP-CT0513.8 161KV'	85	-0.00004	SPS	'MUSTANG 115KV'	300	0.42994	-0.42998	3 36
AEPW	'AEP-CT0613.8 161KV'	85	-0.00004	SPS	'MUSTANG 115KV'	300	0.42994	-0.42998	3 36
AEPW	'AH-CC_C118.0 138KV'	150	-0.00005	SPS	'MUSTANG 115KV'	300	0.42994	-0.42999	36
AEPW	'AH-CC_C218.0 138KV'	150	-0.00005	SPS	'MUSTANG 115KV'	300	0.42994	-0.42999	36
AEPW	'AH-CC_ST18.0 138KV'	250	-0.00005	SPS	'MUSTANG 115KV'	300	0.42994	-0.42999	36
AEPW	'ARSENAL HILL 69KV'	99	-0.00005	SPS	'MUSTANG 115KV'	300	0.42994		
WEPL	'BELOIT 115KV'	16.6	0.00016	SPS	'MUSTANG 115KV'	300	0.42994	-0.42978	3 36
WEPL	CIMARRON RIVER 115KV	32.17398	0.00055	SPS	'MUSTANG 115KV'	300	0.42994	-0.42939	36
AEPW	'COGENTRIX 345KV'	594	-0.00006	SPS	'MUSTANG 115KV'	300	0.42994	-0.43	3 36
AEPW	'EASTMAN 138KV'	130.01	-0.00006	SPS	'MUSTANG 115KV'	300	0.42994	-0.43	3 36
AEPW	'FITZHUGH 161KV'	95.00001	-0.00004	SPS	'MUSTANG 115KV'	300	0.42994	-0.42998	3 36
AEPW	'FULTON 115KV'	32.99999	-0.00005	SPS	'MUSTANG 115KV'	300	0.42994	-0.42999	
SUNC	'GARDEN CITY 115KV'	127.7661	0.00059	SPS	'MUSTANG 115KV'	300	0.42994	-0.42935	5 36
SUNC	'GARDEN CITY 69KV'	13	0.00059	SPS	'MUSTANG 115KV'	300	0.42994	-0.42935	
WEPL	'HARPER 138KV'	17.21	0.00013		'MUSTANG 115KV'	300	0.42994	-0.42981	
AEPW	'HEMPCOAL24.0 138KV'	608	-0.00006	SPS	'MUSTANG 115KV'	300	0.42994	-0.43	3 36

'HOLCOMB 115KV'	25.7312	0.0006 SPS	'MUSTANG 115KV'	300	0.42994 -0.42934
'KIOWA 345KV'	1348	-0.00012 SPS	'MUSTANG 115KV'	300	0.42994 -0.43006
					0.42994 -0.43
	13				
					0.42994 -0.43
					0.42994 -0.43
					0.42994 -0.43221
LP-HULLZ 69KV					0.42994 -0.4323
LP-WAGKZ 69KV		-0.00230 SPS			0.42994 -0.4323
					0.42994 -0.4287
					0.42994 -0.42961
					0.42994 -0.43
					0.42994 -0.43
					0.42994 -0.42784
'RIVERSIDE STATION 138KV'	153	-0.00006 SPS	'MUSTANG 115KV'	300	0.42994 -0.43
'RIVERVIEW 69KV'	23	0.00123 SPS	'MUSTANG 115KV'	300	0.42994 -0.42871
'RUSSELL 115KV'	27.9	0.00028 SPS	'MUSTANG 115KV'	300	
'RVRSIDEG13.8_138KV'	172	-0.00006 SPS	'MUSTANG 115KV'	300	0.42994 -0.43
					0.42994 -0.43006
					0.42994 -0.43
			MUSTANG 115KV		0.42994 -0.43002
					0.42994 -0.43
					0.42994 -0.43
	75				0.14753 -0.31136
		-0.16383 SPS	'MUSTG5 118.0 230KV'	50	0.14753 -0.31136
'MADOX 115KV'	75	-0.16383 SPS	'PLANTX 230KV'	189	0.00419 -0.16802
'MADOX 115KV'	75	-0.16383 SPS	TOLK 230KV	1027.116	0.00353 -0.16736
'MADOX 115KV'	75	-0.16383 SPS	'BLACKHAWK 115KV'	220	
'MADOX 115KV'	75	-0.16383 SPS		1066	0.00125 -0.16508
			MOORE COUNTY 115KV		0.00131 -0.16514
					0.0012 -0.16503
					0.0021 -0.16593
					0.0021 -0.16486
		-0.10007 5P5			
					0.00353 -0.1642 0.00033 -0.16416
					0.00013 -0.16396
					-0.00026 -0.16357
		-0.16383 SPS			0.00112 -0.16495
					-0.00006 -0.16377
			'FLINT CREEK 161KV'		-0.00004 -0.16379
'MADOX 115KV'	75	-0.16383 SUNC		56.23386	0.00059 -0.16442
'MADOX 115KV'	75	-0.16383 WEPL	'GRAY COUNTY WIND FARM 115KV'	36	0.00048 -0.16431
'MADOX 115KV'	75	-0.16383 SUNC	'HOLCOMB 115KV'	268.2688	0.0006 -0.16443
	75	-0.16383 WEPL	'JUDSON LARGE 115KV'	109.2783	0.00048 -0.16431
'MADOX 115KV'	75	-0.16383 AEPW	'KNOXLEE 138KV'	164	-0.00006 -0.16377
					-0.00006 -0.16377
			'LIEBERMAN 138KV'		-0.00005 -0.16378
					-0.00005 -0.16378
			OFC 345KV		
					-0.00006 -0.16377
					-0.00006 -0.16377
					0.00002 -0.16385
					-0.00012 -0.16371
			TULSA POWER STATION 138KV		
			WEATHERFORD 34KV		
					-0.00008 -0.16375
					-0.00006 -0.16377
					-0.00006 -0.16377
'MADOX 115KV'	75	-0.16383 AEPW	WILKES 345KV	311	-0.00006 -0.16377
CUNNINGHAM 115KV	48.38086	-0.16067 SPS	'BLACKHAWK 115KV'	220	0.00124 -0.16191
CUNNINGHAM 115KV	48.38086	-0.16067 SPS	'CZ 69KV'	39	0.00112 -0.16179
CUNNINGHAM 115KV	48.38086	-0.16067 SPS	'HARRINGTON 230KV'	1066	0.00125 -0.16192
				48	0.00131 -0.16198
CUNNINGHAM 115KV	48.38086		'NICHOLS 115KV'	147	0.0012 -0.16187
CUNNINGHAM 115KV	48.38086	-0.16067 SPS	'NICHOLS 230KV'	147	0.00124 -0.16191
CUNNINGHAM 115KV	48,38086	-0.16067ISPS			
CUNNINGHAM 115KV nd Maximum Increment were determine from the Souce and Sink	48.38086 k Operating Points in the		'PLANTX 115KV'	205	0.0021 -0.16277
	IkNOXLEE 138KV           ILBROCK 345KV           ILBROCK 345KV           ILBROCK 345KV           ILBROCK 345KV           ILDESTAR POWER PLANT 69KV           ILP-MOLZ 69KV           ILP-MOLZ 69KV           ILPAMACK2 69KV           IND-CONTINENT 138KV           NICHOLS 115KV           NICHOLS 230KV           OCG 345KV           OCG 345KV           PRREY GENERATION 138KV           RIVERSIDE STATION 138KV           TOLK 230KV           TOLK 230KV           TOLK 200KV           WELEE 115KV           TUSA POWER STATION 138KV           TULSA POWER STATION 138KV           TULSA POWER STATION 138KV           WELEE 138KV           WELEE 138KV           WELEE 138KV           WELEE 138KV           WELEE 138KV           WELEE 138KV           MADOX 115KV           MADOX 115KV           MADOX 115KV           MADOX 115KV           MADOX 115KV           MADOX 115KV           MA	IKNOXLEE 138KV         259           ILDIS 66KV         13           ILEBROCK 348KV         132           ILEBROCK 348KV         144           ILONESTAR POWER PLANT 69KV         132           ILP-MULZ 69KV         132           ILP-MOLZ 69KV         142           IDPODT         144           IDNECONTINENT 138KV         142.20           NID-CONTINENT 138KV         142.20           NID-CONTINENT 138KV         142.41           OEC 345KV         162.03           NORTH WEST GREAT BEND 115KV         142.41           OEC 345KV         162.03           PIRKEY GENERATION 138KV         1153           RIVERVIEW 69KV         23           RUSESDE STATION 138KV         125           SUDTHWESTERN STATION 138KV         125           TULSA POWER STATION 138KV         125           TULSA POWER STATION 138KV         126           TULSA POWER STATION 138KV         126           WELEETAA 138KV         136           WELESTAA 138KV         146.30066           CUNNINGHAM 115KV         146.30066           MADX 115KV         75           MADX 115KV         75           MADX 115KV         75 <tr< td=""><td>INDXLEE         138KV         259         0.00006         SPS           LEBROCK         345KV         1182         0.00006         SPS           LUBEERMAN         138KV         1164         0.00005         SPS           LUDESTAR POWER PLANT         69KV         120         0.0023         SPS           LPHOLL2         69KV         120         0.0023         SPS           INCCONTINENT         138KV         142.11         0.00024         SPS           NICCOLS         115KV         66.00001         0.00124         SPS           NICHOLS         115KV         14.24         0.00023         SPS           NORTH         WEST GREAT BEND         115KV         14.34         0.00023         SPS           NORTH         WEST GREAT BEND         115KV         14.34         0.00023         SPS           PLANTX         153         0.00023         SPS         RWESTBEGTS         0.00123         SPS           RUESEL         15KV         123         0.00023         SPS         RWESTBEGTS         0.00123         SPS           RUESEL         15KV         27.9         0.00023         SPS         SOUTHWESTERN STATION         138KV         152.440.000033</td><td>NODALEE 138KY         228         -0.0006 [SPB         MUSTING 119KY           LEDIS GK 364W         18         -0.0006 [SPB         MUSTING 119KY           LEDIS GK 364W         18         -0.0006 [SPB         MUSTING 119KY           LONESTAR PORKEP LANT BRY         18         -0.0006 [SPB         MUSTING 119KY           LP-MOLIZ (SKY         18         -0.0006 [SPB         MUSTING 119KY           LP-MOLIZ (SKY         18         -0.0006 [SPB         MUSTING 119KY           NOCOCOLS (SSR)         MUSTING 119KY         14.21         -0.0006 [SPB         MUSTING 119KY           NOCOCOLS (SSR)         MUSTING 119KY         14.24         -0.0003 [SPB         MUSTING 119KY           NOCOCOLS (SSR)         MUSTING 119KY         14.24         -0.0003 [SPB         MUSTING 119KY           NOCOCOLS (SSR)         MUSTING 119KY         12.8         -0.0003 [SPB         MUSTING 119KY           PIREKY (SSR) (STINDN 139KY         12.8         -0.0003 [SPB         MUSTING 119KY         12.9           RVESIDE STINDN 139KY         12.8         -0.0003 [SPB         MUSTING 119KY         12.8           RVESIDE STINDN 139KY         12.8         -0.0003 [SPB         MUSTING 119KY         11.9           RVESIDE STINDN 139KY         12.9         -0.00003 [</td><td>NDOLEE 138V         265         40000 (\$PS         MUSTAND 115V         300           LAD11 80V/V         154         40000 (\$PS         MUSTAND 115V/V         300           LADESEMIN 138V/         154         40000 (\$PS         MUSTAND 115V/V         300           LADESEMIN 138V/         154         40000 (\$PS         MUSTAND 115V/V         300           LADESEMIN 138V/         150         40000 (\$PS         MUSTAND 115V/V         300           LADESEMIN 138V/         152         40000 (\$PS         MUSTAND 115V/V         300           NIDCONTRETUNT 68V/         152         40000 (\$PS         MUSTAND 115V/V         300           NIDCONTRETUNT 138V/         152         40000 (\$PS         MUSTAND 115V/V         300           NIDCONTRETUNT 138V/V         152         40000 (\$PS         MUSTAND 115V/V         300           NIN</td></tr<>	INDXLEE         138KV         259         0.00006         SPS           LEBROCK         345KV         1182         0.00006         SPS           LUBEERMAN         138KV         1164         0.00005         SPS           LUDESTAR POWER PLANT         69KV         120         0.0023         SPS           LPHOLL2         69KV         120         0.0023         SPS           INCCONTINENT         138KV         142.11         0.00024         SPS           NICCOLS         115KV         66.00001         0.00124         SPS           NICHOLS         115KV         14.24         0.00023         SPS           NORTH         WEST GREAT BEND         115KV         14.34         0.00023         SPS           NORTH         WEST GREAT BEND         115KV         14.34         0.00023         SPS           PLANTX         153         0.00023         SPS         RWESTBEGTS         0.00123         SPS           RUESEL         15KV         123         0.00023         SPS         RWESTBEGTS         0.00123         SPS           RUESEL         15KV         27.9         0.00023         SPS         SOUTHWESTERN STATION         138KV         152.440.000033	NODALEE 138KY         228         -0.0006 [SPB         MUSTING 119KY           LEDIS GK 364W         18         -0.0006 [SPB         MUSTING 119KY           LEDIS GK 364W         18         -0.0006 [SPB         MUSTING 119KY           LONESTAR PORKEP LANT BRY         18         -0.0006 [SPB         MUSTING 119KY           LP-MOLIZ (SKY         18         -0.0006 [SPB         MUSTING 119KY           LP-MOLIZ (SKY         18         -0.0006 [SPB         MUSTING 119KY           NOCOCOLS (SSR)         MUSTING 119KY         14.21         -0.0006 [SPB         MUSTING 119KY           NOCOCOLS (SSR)         MUSTING 119KY         14.24         -0.0003 [SPB         MUSTING 119KY           NOCOCOLS (SSR)         MUSTING 119KY         14.24         -0.0003 [SPB         MUSTING 119KY           NOCOCOLS (SSR)         MUSTING 119KY         12.8         -0.0003 [SPB         MUSTING 119KY           PIREKY (SSR) (STINDN 139KY         12.8         -0.0003 [SPB         MUSTING 119KY         12.9           RVESIDE STINDN 139KY         12.8         -0.0003 [SPB         MUSTING 119KY         12.8           RVESIDE STINDN 139KY         12.8         -0.0003 [SPB         MUSTING 119KY         11.9           RVESIDE STINDN 139KY         12.9         -0.00003 [	NDOLEE 138V         265         40000 (\$PS         MUSTAND 115V         300           LAD11 80V/V         154         40000 (\$PS         MUSTAND 115V/V         300           LADESEMIN 138V/         154         40000 (\$PS         MUSTAND 115V/V         300           LADESEMIN 138V/         154         40000 (\$PS         MUSTAND 115V/V         300           LADESEMIN 138V/         150         40000 (\$PS         MUSTAND 115V/V         300           LADESEMIN 138V/         152         40000 (\$PS         MUSTAND 115V/V         300           NIDCONTRETUNT 68V/         152         40000 (\$PS         MUSTAND 115V/V         300           NIDCONTRETUNT 138V/         152         40000 (\$PS         MUSTAND 115V/V         300           NIDCONTRETUNT 138V/V         152         40000 (\$PS         MUSTAND 115V/V         300           NIN

Upgrade:	Mustang-San Andr-Amerada Hess 115KV							
Limiting Facility:	DENVER CITY INTERCHANGE S - MUSTANG STATION 11	5KV CKT 1						
Direction:	To->From							
Line Outage:	DENVER CITY INTERCHANGE N - MUSTANG STATION 11	5KV CKT 1						
Flowgate:	51962519681519605196613408SP							
Date Redispatch Needed:	Starting 2008 6/1 - 10/1 Until EOC							
Season Flowgate Identified:	2008 Summer Peak							
*		Aggregate Relief	1					
Reservation	Relief Amount	Amount						
116267	5 12.2	12.2						
				Sink				
		Maximum		Control		Maximum		
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor
SPS	'MADOX 115KV'	75			'MUSTANG 115KV'	30	0.43001	-0.5937
SPS	CUNNINGHAM 115KV	9.911621			'MUSTANG 115KV'	30	0.43001	-0.5906
SPS	'CARLSBAD 69KV'	18			'MUSTANG 115KV'	30	0.43001	-0.5063
AEPW	'AEP-CT0113.8 161KV'	85	-0.00004	SPS	'MUSTANG 115KV'	30	0.43001	-0.4300
AEPW	'AEP-CT0213.8 161KV'	85			'MUSTANG 115KV'	30	0.43001	-0.4300
AEPW	'AEP-CT0313.8 161KV'	85			'MUSTANG 115KV'	30	0.43001	-0.4300
AEPW	'AEP-CT0413.8 161KV'	85	-0.00004	SPS	'MUSTANG 115KV'	30	0.43001	-0.4300
AEPW	'AEP-CT0513.8 161KV'	85			'MUSTANG 115KV'	30		-0.4300
AEPW	'AEP-CT0613.8 161KV'	85			'MUSTANG 115KV'	30	0.43001	-0.4300
AEPW	'AH-CC_C118.0 138KV'	150	-0.00005	SPS	'MUSTANG 115KV'	30	0.43001	-0.4300
AEPW	'AH-CC_C218.0 138KV'	150			'MUSTANG 115KV'	30	0.43001	-0.4300
AEPW	'AH-CC_ST18.0 138KV'	250			'MUSTANG 115KV'	30		-0.4300
AEPW	'ARSENAL HILL 69KV'	99			'MUSTANG 115KV'	30	0.43001	-0.4300
WEPL	'BELOIT 115KV'	16.6			'MUSTANG 115KV'	30		-0.4298
WEPL	'CIMARRON RIVER 115KV'	29.50916			'MUSTANG 115KV'	30	0.43001	-0.4294
SUNC	CITY OF HUGOTON 69KV	10.17			'MUSTANG 115KV'	30		
SUNC	'CITY OF NORTON 115KV'	10.56			'MUSTANG 115KV'	30	0.43001	-0.4296
AEPW	'COGENTRIX 345KV'	594			'MUSTANG 115KV'	30		
AEPW	'EASTMAN 138KV'	130.01	-0.00006		'MUSTANG 115KV'	30		
SUNC	'GARDEN CITY 115KV'	126.8647			'MUSTANG 115KV'	30		-0.4294
SUNC	'GARDEN CITY 34KV'	10.7			'MUSTANG 115KV'	30		-0.4294
SUNC	'GARDEN CITY 69KV'	13			'MUSTANG 115KV'	30	0.43001	-0.4294
WEPL	'HARPER 138KV'	17.21	0.00012		'MUSTANG 115KV'	30		-0.4298
AEPW	'HEMPCOAL24.0 138KV'	608	-0.00006	SPS	'MUSTANG 115KV'	30	0.43001	-0.4300

Aggregate Redispatch Amount (MW)

SUNC		04.40404 0.00050 000		
AEPW	'HOLCOMB 115KV' 'KIOWA 345KV'	24.10101 0.00059 SPS	MUSTANG 115KV	300 0.43001 -0.42942
AEPW AEPW	KIOWA 345KV KNOXLEE 138KV	1348 -0.00012 SPS 269.9988 -0.00006 SPS	'MUSTANG 115KV' 'MUSTANG 115KV'	300 0.43001 -0.43013 300 0.43001 -0.43007
AEPW			MUSTANG 115KV MUSTANG 115KV	
AEPW	'L&D13 69KV' 'LEBROCK 345KV'	13 -0.00004 SPS 232 -0.00006 SPS	MUSTANG 115KV	300 0.43001 -0.43005 300 0.43001 -0.43007
AEPW	LIEBERMAN 138KV	154 -0.00005 SPS	MUSTANG 115KV	
AEPW	'LONESTAR POWER PLANT 69KV'	50 -0.00006 SPS	'MUSTANG 115KV'	300 0.43001 -0.43007
SPS	'LP-HOLL2 69KV'	132 -0.00217 SPS	'MUSTANG 115KV'	300 0.43001 -0.43218
SPS	'LP-MACK2 69KV'	20 -0.00226 SPS	'MUSTANG 115KV'	300 0.43001 -0.43227
AEPW	'MID-CONTINENT 138KV'	142.11 -0.00004 SPS	'MUSTANG 115KV'	300 0.43001 -0.43005
SPS	'NICHOLS 115KV'	66.00001 0.00118 SPS	'MUSTANG 115KV'	300 0.43001 -0.42883
SPS	'NICHOLS 230KV'	97 0.00123 SPS	'MUSTANG 115KV'	300 0.43001 -0.42878
WEPL	'NORTH WEST GREAT BEND 115KV'	14.24 0.00032 SPS	'MUSTANG 115KV'	300 0.43001 -0.42969
AEPW	'OEC 345KV'	1678.03 -0.00006 SPS	'MUSTANG 115KV'	300 0.43001 -0.43007
AEPW	'PIRKEY GENERATION 138KV'	25 -0.00006 SPS	'MUSTANG 115KV'	300 0.43001 -0.43007
SPS	'PLANTX 115KV'	48 0.00209 SPS	'MUSTANG 115KV'	300 0.43001 -0.42792
AEPW	'RIVERSIDE STATION 138KV'	240 -0.00006 SPS	'MUSTANG 115KV'	300 0.43001 -0.43007
SPS	'RIVERVIEW 69KV'	23 0.00122 SPS	'MUSTANG 115KV'	300 0.43001 -0.42879
WEPL	'RUSSELL 115KV'	27.9 0.00028 SPS	'MUSTANG 115KV'	300 0.43001 -0.42973
AEPW	'RVRSIDEG13.8 138KV'	172 -0.00006 SPS	'MUSTANG 115KV'	300 0.43001 -0.43007
AEPW	SOUTHWESTERN STATION 138KV	391 -0.00012 SPS	'MUSTANG 115KV'	300 0.43001 -0.43013
SPS	TUCUMCARI 115KV	15 -0.00283 SPS	'MUSTANG 115KV'	300 0.43001 -0.43284
AEPW	TULSA POWER STATION 138KV	191 -0.00006 SPS	'MUSTANG 115KV'	300 0.43001 -0.43007
AEPW	TULSA POWER STATION 138KV	80 -0.00006 SPS	'MUSTANG 115KV'	300 0.43001 -0.43007
AEPW	WELEETKA 138KV	58 -0.00008 SPS	'MUSTANG 115KV'	300 0.43001 -0.43007
AEPW	WILKES 138KV	263.827 -0.00006 SPS	MUSTANG 115KV	300 0.43001 -0.43009
AEPW	WILKES 138KV WILKES 345KV	58 -0.00006 SPS	MUSTANG 115KV MUSTANG 115KV	300 0.43001 -0.43007 300 0.43001 -0.43007
SPS	TOLK 230KV'	53.17621 0.00355 SPS	'MUSTANG 115KV'	300 0.43001 -0.42646
SPS	MADOX 115KV	75 -0.16377 SPS	'MUSTANG 230KV'	310 0.14759 -0.31136
SPS	'MADOX 115KV'	75 -0.16377 SPS	'MUSTG5 118.0 230KV'	50 0.14759 -0.31136
SPS	'CARLSBAD 69KV'	18 -0.07632 SPS	'MUSTANG 230KV'	310 0.14759 -0.22391
SPS	'CARLSBAD 69KV'	18 -0.07632 SPS	'MUSTG5 118.0 230KV'	50 0.14759 -0.22391
SPS	'MADOX 115KV'	75 -0.16377 SPS	'PLANTX 230KV'	189 0.00421 -0.16798
SPS	'MADOX 115KV'	75 -0.16377 SPS	'PLANTX 115KV'	205 0.00209 -0.16586
SPS	'MADOX 115KV'	75 -0.16377 SPS	'TOLK 230KV'	1026.824 0.00355 -0.16732
SPS	'MADOX 115KV'	75 -0.16377 WEPL	'A. M. MULLERGREN GENERATOR 115KV'	63 0.00032 -0.16409
SPS	'MADOX 115KV'	75 -0.16377 SPS	'BLACKHAWK 115KV'	220 0.00122 -0.16499
SPS	'MADOX 115KV'	75 -0.16377 WEPL	'CLIFTON 115KV'	65 0.00013 -0.1639
SPS	'MADOX 115KV'	75 -0.16377 AEPW	COGENTRIX 345KV	300 -0.00006 -0.16371
SPS	'MADOX 115KV'	75 -0.16377 AEPW	COMANCHE 138KV	160 -0.00025 -0.16352
SPS	'MADOX 115KV'	75 -0.16377 AEPW	COMANCHE 69KV	63 -0.00022 -0.16355
SPS	'MADOX 115KV'	75 -0.16377 SPS	CZ 69KV	39 0.0011 -0.16487
SPS	'MADOX 115KV'	75 -0.16377 AEPW	'EASTMAN 138KV'	355 -0.00006 -0.16371
SPS	MADOX 115KV	75 -0.16377 AEPW	FITZHUGH 161KV	126 -0.00004 -0.16373
SPS	'MADOX 115KV'	75 -0.16377 AEPW	FLINT CREEK 161KV	428 -0.00003 -0.16374
SPS	MADOX 115KV	75 -0.16377 AEPW	FULTON 115KV	24.99999 -0.00005 -0.16372
SPS	MADOX 115KV	75 -0.16377 AEPW 75 -0.16377 SUNC	GARDEN CITY 115KV	57.13528 0.00058 -0.16435
SPS	'MADOX 115KV'	75 -0.16377 WEPL	'GRAY COUNTY WIND FARM 115KV'	36 0.00047 -0.16424
SPS	'MADOX 115KV'	75 -0.16377 SPS	'HARRINGTON 230KV'	1066 0.00124 -0.16501
SPS	'MADOX 115KV'	75 -0.16377 SUNC	'HOLCOMB 115KV'	269.899 0.00059 -0.16436
SPS	'MADOX 115KV'	75 -0.16377 WEPL	'JUDSON LARGE 115KV'	109.7643 0.00047 -0.16424
SPS	'MADOX 115KV'	75 -0.16377 AEPW	'KNOXLEE 138KV'	153.0012 -0.00006 -0.16371
SPS	'MADOX 115KV'	75 -0.16377 AEPW	'LEBROCK 345KV'	465 -0.00006 -0.16371
SPS	'MADOX 115KV'	75 -0.16377 AEPW	'LIEBERMAN 138KV'	73.99999 -0.00005 -0.16372
SPS	'MADOX 115KV'	75 -0.16377 SPS	'MOORE COUNTY 115KV'	48 0.0013 -0.16507
SPS	'MADOX 115KV'	75 -0.16377 SPS	'NICHOLS 115KV'	147 0.00118 -0.16495
SPS	'MADOX 115KV'	75 -0.16377 SPS	'NICHOLS 230KV'	147 0.00123 -0.165
SPS	'MADOX 115KV'	75 -0.16377 AEPW	'NORTHEASTERN STATION 138KV'	500 -0.00005 -0.16372
SPS	'MADOX 115KV'	75 -0.16377 AEPW	'NORTHEASTERN STATION 345KV'	645 -0.00004 -0.16373
SPS	'MADOX 115KV'	75 -0.16377 AEPW	OEC 345KV	469 -0.00006 -0.16371
SPS	MADOX 115KV	75 -0.16377 AEPW	PIRKEY GENERATION 138KV	490 -0.00006 -0.16371
SPS	MADOX 115KV	75 -0.16377 AEPW	'RIVERSIDE STATION 138KV'	482 -0.00006 -0.16371
SPS	MADOX 115KV	75 -0.16377 AEPW	SLEEPING BEAR 138KV	80 0.00001 -0.16378
SPS	MADOX 115KV	75 -0.16377 AEPW	SUTHWESTERN STATION 138KV	368 -0.00012 -0.16365
SPS	MADOX 115KV MADOX 115KV	75 -0.16377 AEPW	TULSA POWER STATION 138KV	103 -0.00006 -0.16385
SPS	MADOX 115KV 'MADOX 115KV'	75 -0.16377 AEPW 75 -0.16377 AEPW	WEATHERFORD 34KV	
SPS	MADOX 115KV 'MADOX 115KV'	75 -0.16377 AEPW 75 -0.16377 AEPW	WEATHERFORD 34KV WELEETKA 138KV	148 0.00007 -0.16384 84 -0.00008 -0.16369
SPS	'MADOX 115KV'	75 -0.16377 AEPW	WELSH 345KV'	1044 -0.00006 -0.16371
SPS	'MADOX 115KV'	75 -0.16377 AEPW	WILKES 138KV	199.173 -0.00006 -0.16371
SPS	'MADOX 115KV'	75 -0.16377 AEPW	WILKES 345KV	253 -0.00006 -0.16371
SPS	'MADOX 115KV'	75 -0.16377 SPS	JONES 230KV	486 -0.00198 -0.16179
SPS	'MADOX 115KV'	75 -0.16377 SPS	'LP-MACK2 69KV'	60 -0.00226 -0.16151
SPS	'LP-HOLL2 69KV'	132 -0.00217 SPS	'MUSTANG 230KV'	310 0.14759 -0.14976
	'LP-HOLL2 69KV'	132 -0.00217 SPS	'MUSTG5 118.0 230KV'	50 0.14759 -0.14976
SPS		85 -0.00004 SPS	'MUSTANG 230KV'	310 0.14759 -0.14763
AEPW	'AEP-CT0113.8 161KV'			
AEPW	'AEP-CT0113.8 161KV'	85 -0.00004 SPS	'MUSTG5 118.0 230KV'	50 0.14759 -0.14763
AEPW		85 -0.00004 SPS	'MUSTG5 118.0 230KV'	

Upgrade:	Mustang-San Andr-Amerada Hess 115KV								
Limiting Facility:	DENVER CITY INTERCHANGE S - MUSTANG STATION 115	5KV CKT 1							
Direction:	To->From								
Line Outage:	DENVER CITY INTERCHANGE N - MUSTANG STATION 115	5KV CKT 1							
Flowgate:	51962519681519605196614407SH								
Date Redispatch Needed:	6/1 - 10/1 Until EOC of Upgrade								
Season Flowgate Identified:									
		Aggregate Relief							
Reservation		Amount							
11626	75 3.7	3.7							
				Sink					Ag
		Maximum		Control	1	Maximum	1	1	R
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Ar
SPS	CUNNINGHAM 115KV	181	-0.16067	SPS	'MUSTANG 115KV'	3	0.42994	4 -0.59061	J
SPS	'MADOX 115KV'	75	-0.16383	SPS	'MUSTANG 115KV'	3	0.42994	4 -0.59377	
SPS	'CARLSBAD 69KV'	18	-0.07637		'MUSTANG 115KV'	3	0.42994	4 -0.50631	1
SPS	CUNNINGHAM 230KV	110	-0.07304		'MUSTANG 115KV'		0.42994		
AEPW	'AEP-CT0213.8 161KV'	10	-0.00004		'MUSTANG 115KV'	3	0.42994		
AEPW	'AEP-CT0313.8 161KV'	85	-0.00004	SPS	'MUSTANG 115KV'	3	0.42994	4 -0.42998	۶.
AEPW	'AEP-CT0413.8 161KV'	85	-0.00004		'MUSTANG 115KV'	3	0.42994	4 -0.42998	5
AEPW	'AEP-CT0513.8 161KV'	85	-0.00004	SPS	'MUSTANG 115KV'	3	0.42994	4 -0.42998	ذ
AEPW	'AEP-CT0613.8 161KV'	85	-0.00004		'MUSTANG 115KV'	3	0.42994	4 -0.42998	5
AEPW	'AH-CC_C118.0 138KV'	150	-0.00005		'MUSTANG 115KV'		0.42994		
AEPW	'AH-CC_C218.0 138KV'	150	-0.00005	SPS	'MUSTANG 115KV'	3	0.42994	4 -0.42999	J I
AEPW	'AH-CC_ST18.0 138KV'	250	-0.00005		'MUSTANG 115KV'	3	0.42994	4 -0.42999	J
AEPW	'ARSENAL HILL 69KV'	99	-0.00005	SPS	'MUSTANG 115KV'	3	0.42994	4 -0.42999	١
WEPL	'BELOIT 115KV'	16.6	0.00016		'MUSTANG 115KV'	3	0.42994		
WEPL	'CIMARRON RIVER 115KV'	72	0.00055		'MUSTANG 115KV'		0.42994		
SUNC	CITY OF GOODLAND 115KV	13.9	0.00047	SPS	'MUSTANG 115KV'	3	0.42994	4 -0.42947	1
SUNC	CITY OF HILL CITY 115KV	6.1	0.00034		'MUSTANG 115KV'	3	0.42994		
SUNC	CITY OF HUGOTON 69KV	17.07	0.00056	SPS	'MUSTANG 115KV'	3	0.42994	4 -0.42938	5
SUNC	'CITY OF LAKIN 115KV'	4.25	0.00059		'MUSTANG 115KV'		0.42994	4 -0.42935	ز
SUNC	CITY OF NORTON 115KV	10.56	0.00036		'MUSTANG 115KV'	3	0.42994		
SUNC	'CITY OF ST.FRANCIS 115KV'	4.3	0.00046	SPS	'MUSTANG 115KV'	3	0.42994	4 -0.42948	۶.
WEPL	'CLIFTON 115KV'	42.31445	0.00013		'MUSTANG 115KV'		0.42994		T
AEPW	'COGENTRIX 345KV'	694	-0.00006		'MUSTANG 115KV'		0.42994		
SPS	'CZ 69KV'	4	0.00112		'MUSTANG 115KV'	3	0.42994	4 -0.42882	2
AEPW	'EASTMAN 138KV'	130.01	-0.00006	SPS	'MUSTANG 115KV'	3	0.42994	4 -0.43	4

Aggregate Redispatch Amount (MW)

[						
AEPW	'FITZHUGH 161KV'	118		'MUSTANG 115KV'	300	0.42994 -0.42998 9
AEPW	'FLINT CREEK 161KV'	28	-0.00004 SPS	'MUSTANG 115KV'	300	0.42994 -0.42998 9
AEPW	'FULTON 115KV'	32.99999	-0.00005 SPS	'MUSTANG 115KV'	300	0.42994 -0.42999 9
SUNC	'GARDEN CITY 115KV'	169.5043	0.00059 SPS	'MUSTANG 115KV'	300	0.42994 -0.42935 9
SUNC	'GARDEN CITY 34KV'	10.7	0.00059 SPS	'MUSTANG 115KV'	300	0.42994 -0.42935 9
			0.00059 SPS			
SUNC	GARDEN CITY 69KV	13		'MUSTANG 115KV'	300	
WEPL	'GREENLEAF 115KV'	8	0.00012 SPS	'MUSTANG 115KV'	300	
WEPL	'GREENSBURG 115KV'	6.2	0.00037 SPS	'MUSTANG 115KV'	300	0.42994 -0.42957 9
WEPL	'HARPER 138KV'	17.21	0.00013 SPS	'MUSTANG 115KV'	300	0.42994 -0.42981 9
AEPW	'HEMPCOAL24.0 138KV'	608	-0.00006 SPS	'MUSTANG 115KV'	300	0.42994 -0.43 9
SUNC	HOLCOMB 115KV	23.89566	0.0006 SPS	'MUSTANG 115KV'	300	0.42994 -0.42934 9
SPS	'HUBRCO2 69KV'	6	0.00123 SPS	'MUSTANG 115KV'	300	0.42994 -0.42871 9
SUNC	JOHNSON 69KV'	5.2	0.00057 SPS	'MUSTANG 115KV'	300	0.42994 -0.42937 9
WEPL	JUDSON LARGE 115KV'	7.886536	0.00048 SPS	'MUSTANG 115KV'	300	0.42994 -0.42946 9
AEPW	KIOWA 345KV	1348	-0.00012 SPS	'MUSTANG 115KV'	300	0.42994 -0.43006
AEPW	'KNOXLEE 138KV'	381	-0.00006 SPS	'MUSTANG 115KV'	300	0.42994 -0.43 9
AEPW	'L&D13 69KV'	13	-0.00004 SPS	'MUSTANG 115KV'	300	0.42994 -0.42998 9
AEPW	'LEBROCK 345KV'	182	-0.00006 SPS	'MUSTANG 115KV'	300	0.42994 -0.43 9
AEPW	'LIEBERMAN 138KV'	224	-0.00005 SPS	'MUSTANG 115KV'	300	0.42994 -0.42999 9
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.00006 SPS	'MUSTANG 115KV'	300	0.42994 -0.43 9
SPS	'LP-HOLL2 69KV'	132	-0.00227 SPS	'MUSTANG 115KV'	300	0.42994 -0.43221 9
SPS	LP-MACK2 69KV	20	-0.00236 SPS	'MUSTANG 115KV'	300	0.42994 -0.4323 9
AEPW	'MID-CONTINENT 138KV'	142.11	-0.00004 SPS	'MUSTANG 115KV'	300	0.42994 -0.42998 9
SPS	MOORE COUNTY 115KV	48	0.00131 SPS	'MUSTANG 115KV'	300	0.42994 -0.42863
AEPW	'NARROWS 69KV'	40	-0.00007 SPS	MUSTANG 115KV	300	0.42994 -0.43001
SPS	'NICHOLS 115KV'	131	0.0012 SPS	'MUSTANG 115KV'	300	0.42994 -0.42874 9
SPS	'NICHOLS 230KV'	244	0.00124 SPS	'MUSTANG 115KV'	300	
AEPW	'NORTH MARSHALL 69KV'	5	-0.00006 SPS	'MUSTANG 115KV'	300	0.42994 -0.43 9
WEPL	'NORTH WEST GREAT BEND 115KV'	14.24	0.00033 SPS	'MUSTANG 115KV'	300	0.42994 -0.42961 9
AEPW	'NORTHEASTERN STATION 138KV'	101	-0.00005 SPS	'MUSTANG 115KV'	300	0.42994 -0.42999 9
AEPW	'NORTHEASTERN STATION 345KV'	36.99997	-0.00004 SPS	'MUSTANG 115KV'	300	0.42994 -0.42998 9
SUNC	'OBERLIN 115KV'	4.31	0.00038 SPS	'MUSTANG 115KV'	300	0.42994 -0.42956 9
AEPW	'OEC 345KV'	1878.03	-0.00006 SPS	'MUSTANG 115KV'	300	0.42994 -0.43 9
AEPW	'OMPA-PAWHUSKA NORTHEAST 138KV'	6.9	-0.00005 SPS	'MUSTANG 115KV'	300	0.42994 -0.42999 9
AEPW	PIRKEY GENERATION 138KV	75	-0.00006 SPS	'MUSTANG 115KV'	300	0.42994 -0.43
WEPL	PLAINVILLE 115KV	5.79	0.00024 SPS	'MUSTANG 115KV'	300	0.42994 -0.4297 9
SPS	PLANTX 115KV	84.05664	0.0021 SPS	'MUSTANG 115KV'	300	0.42994 -0.42784 9
AEPW	'RIVERSIDE STATION 138KV'	332	-0.00006 SPS	'MUSTANG 115KV'	300	0.42994 -0.43
SPS	'RIVERVIEW 69KV'	23	0.00123 SPS	'MUSTANG 115KV'	300	
WEPL	'RUSSELL 115KV'	27.9	0.00028 SPS	'MUSTANG 115KV'	300	0.42994 -0.42966 9
AEPW	'RVRSIDEG13.8 138KV'	172	-0.00006 SPS	'MUSTANG 115KV'	300	0.42994 -0.43 9
SPS	SIDRCH 69KV	6	0.00123 SPS	'MUSTANG 115KV'	300	0.42994 -0.42871 9
WEPL	'SMITH CENTER 115KV'	6.15	0.0002 SPS	'MUSTANG 115KV'	300	0.42994 -0.42974 9
WEPL	'SOUTH DODGE 115KV'	4.2	0.00048 SPS	'MUSTANG 115KV'	300	0.42994 -0.42946 9
AEPW	'SOUTHWESTERN STATION 138KV'	616	-0.00012 SPS	'MUSTANG 115KV'	300	0.42994 -0.43006 9
SPS	'TOLK 230KV'	54.02521	0.00353 SPS	'MUSTANG 115KV'	300	0.42994 -0.42641 9
SPS	'TUCUMCARI 115KV'	15	-0.00285 SPS	'MUSTANG 115KV'	300	0.42994 -0.43279 9
AEPW	'TULSA POWER STATION 138KV'	256	-0.00006 SPS	'MUSTANG 115KV'	300	0.42994 -0.43
AEPW	TULSA POWER STATION 69KV	80	-0.00006 SPS	'MUSTANG 115KV'	300	0.42994 -0.43
AFPW	WELEETKA 138KV	162	-0.00008 SPS	MUSTANG 115KV	300	0.42994 -0.43002 9
AEPW						
	WELSH 345KV	84	-0.00006 SPS	'MUSTANG 115KV'	300	0.42994 -0.43 9
AEPW	WILKES 138KV	428.5868	-0.00006 SPS	'MUSTANG 115KV'	300	0.42994 -0.43 9
AEPW	WILKES 345KV	244	-0.00006 SPS	'MUSTANG 115KV'	300	0.42994 -0.43 9
SPS	CUNNINGHAM 115KV	181	-0.16067 SPS	'MUSTANG 230KV'	160	0.14753 -0.3082 12
SPS	CUNNINGHAM 115KV	181	-0.16067 SPS	'MUSTG5 118.0 230KV'	50	0.14753 -0.3082 12
SPS	'MADOX 115KV'	75	-0.16383 SPS	'MUSTANG 230KV'	160	0.14753 -0.31136 12
SPS	'MADOX 115KV'	75	-0.16383 SPS	'MUSTG5 118.0 230KV'	50	0.14753 -0.31136 12
SPS	'MUSTANG 230KV'	150	0.14753 SPS	'MUSTANG 115KV'	300	0.42994 -0.28241 13
	'CARLSBAD 69KV'	18	-0.07637 SPS	'MUSTANG 230KV'	160	0.14753 -0.2239 17
SPS						
SPS SPS	CARLSBAD 69KV	18			50	0.14753 -0.2239 17
SPS	'CARLSBAD 69KV'	18	-0.07637 SPS	'MUSTG5 118.0 230KV'	50	
SPS SPS	'CARLSBAD 69KV' 'CUNNINGHAM 230KV'	18 110	-0.07637 SPS -0.07304 SPS	MUSTG5 118.0 230KV' MUSTANG 230KV'	50 160	0.14753 -0.22057 17
SPS SPS SPS	'CARLSBAD 69KV' 'CUNNINGHAM 230KV' 'CUNNINGHAM 230KV'	18 110 110	-0.07637 SPS -0.07304 SPS -0.07304 SPS	MUSTG5 118.0 230KV' MUSTANG 230KV' MUSTG5 118.0 230KV'	50 160 50	0.14753 -0.22057 17 0.14753 -0.22057 17
SPS SPS SPS SPS	CARLSBAD 69KV' 'CUNNINGHAM 230KV' 'CUNNINGHAM 230KV' 'CUNNINGHAM 115KV'	18 110 110 181	-0.07637 SPS -0.07304 SPS -0.07304 SPS -0.16067 SPS	MUSTG5 118.0 230KV' MUSTG5 118.0 230KV' MUSTG5 118.0 230KV' PLANTX 230KV'	50 160 50 189	0.14753 -0.22057 17 0.14753 -0.22057 17 0.00419 -0.16486 22
SPS SPS SPS SPS SPS SPS	CARLSBAD 69KV CUNNINGHAM 230KV CUNNINGHAM 230KV CUNNINGHAM 115KV MADOX 115KV	18 110 110 181 75	-0.07637 SPS -0.07304 SPS -0.07304 SPS -0.07304 SPS -0.16067 SPS -0.16383 SPS	MUSTG5 118.0 230KV MUSTAG 230KV MUSTG5 118.0 230KV PLANTX 230KV PLANTX 230KV BLACKHAWK 115KV	50 160 50 189 220	0.14753         -0.22057         17           0.14753         -0.22057         17           0.00419         -0.16486         22           0.00124         -0.16507         22
SPS SPS SPS SPS SPS SPS SPS	CARLSBAD 69KV CUNNINGHAM 230KV CUNNINGHAM 230KV CUNNINGHAM 115KV MADOX 115KV MADOX 115KV	18 110 110 181 75 75	-0.07637 SPS -0.07304 SPS -0.07304 SPS -0.16067 SPS -0.16383 SPS -0.16383 SPS	MUSTG5 118.0 230KV' MUSTANG 230KV' MUSTG5 118.0 230KV' PLANTX 230KV' BLACKHAWK 115KV' CZ 65KV'	50 160 50 189 220 35	0.14753         -0.22057         17           0.14753         -0.22057         17           0.00419         -0.16486         22           0.00124         -0.16507         22           0.00112         -0.16495         22
SPS	CARLSBAD 69KV           CUNNINGHAM 230KV           CUNNINGHAM 230KV           CUNNINGHAM 130KV           MADDX 115KV           MADDX 115KV           MADDX 115KV	18 110 110 181 75 75 75	-0.07637 SPS -0.07304 SPS -0.07304 SPS -0.16067 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS	MUSTG5 118.0 230KV MUSTANG 230KV NUSTANG 230KV PLANTX 230KV BLACKHAWK 115KV CZ 68KV HARRINGTON 230KV	50 160 50 189 220 35 1066	0.14753 -0.22057 17 0.14753 -0.22057 17 0.00419 -0.16486 22 0.00124 -0.16507 22 0.00112 -0.16495 22 0.00125 -0.16508 22
SPS	CCARLSBAD 69KV           CUNNINGHAM 230KV           CUNNINGHAM 230KV           CUNNINGHAM 15KV           MADOX 115KV           MADOX 115KV           MADOX 115KV	18 110 181 75 75 75 75 75	-0.07637 SPS -0.07304 SPS -0.07304 SPS -0.16067 SPS -0.16083 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS	MUSTGS 118.0 230KV' MUSTGS 118.0 230KV' MUSTGS 118.0 230KV' PLANTX 230KV BLACKHAWK 115KV' 'CZ 68KV' HARRINGTON 230KV' NICHOLS 115KV'	50 160 50 189 220 355 1066 82	0.14753         -0.22057         17           0.14753         -0.22057         17           0.00419         -0.16486         22           0.00124         -0.16507         22           0.00125         -0.16495         22           0.00126         -0.16507         22           0.00127         -0.16508         22           0.00126         -0.16508         22           0.00121         -0.16508         22
SPS	CARLSBAD 69KV           CUNNINGHAM 230KV           CUNNINGHAM 230KV           CUNNINGHAM 115KV           MADDX 115KV           MADDX 115KV           MADDX 115KV           MADDX 115KV           MADDX 115KV           MADDX 115KV	18 110 181 75 75 75 75 75 75 75	-0.07637 SPS -0.07304 SPS -0.07304 SPS -0.16067 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS	MUSTGS 118.0 230KV MUSTANG 230KV MUSTANG 230KV PLANTX 230KV BLACKHAWK 115KV CZ 69KV HARRINGTON 230KV' NICHOLS 115KV PLANTX 115KV	50 160 189 220 35 1066 82 168.9434	0.14753 -0.22057 17 0.14753 -0.22057 17 0.04475 -0.22057 17 0.00419 -0.16488 22 0.00124 -0.16507 22 0.00124 -0.16507 22 0.00125 -0.16495 22 0.00125 -0.16508 22 0.0012 -0.16503 22 0.0021 -0.16503 22
SPS	CCARLSBAD 69KV           CUNNINGHAM 230KV           CUNNINGHAM 230KV           CUNNINGHAM 115KV           MADOX 115KV	18 110 110 181 75 75 75 75 75 75 75 75	-0.07637 SPS -0.07304 SPS -0.07304 SPS -0.16067 SPS -0.16083 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS	MUSTG5 118.0 230KV' MUSTA518.0 230KV' PLANTX 230KV' PLANTX 230KV' BLACKHAWK 115KV' 'CZ 68KV' HARRINGTON 230KV' NICHOLS 115KV' PLANTX 115KV' PLANTX 230KV'	50 160 50 220 35 1066 82 168.9434 188.9434	0.14753 -0.22057 11 0.04753 -0.22057 11 0.00419 -0.16486 22 0.00124 -0.166507 22 0.00124 -0.16456 22 0.00125 -0.16456 22 0.00125 -0.16508 22 0.0021 -0.16503 22 0.0021 -0.16503 22
SPS	CARLSBAD 69KV           CUNNINGHAM 230KV           CUNNINGHAM 230KV           CUNNINGHAM 156KV           MADOX 115KV	18 110 181 75 75 75 75 75 75 75	-0.07637 SPS -0.07304 SPS -0.07304 SPS -0.16067 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS	MUSTGS 118.0 230KV MUSTANG 230KV MUSTANG 230KV PLANTX 230KV BLACKHAWK 115KV CZ 69KV HARRINGTON 230KV' NICHOLS 115KV PLANTX 115KV	50 160 189 220 35 1066 82 168.9434	0.44753 -0.22057 11 0.14753 -0.22057 17 0.00419 -0.16486 22 0.00124 -0.16507 22 0.00125 -0.16436 22 0.00125 -0.16508 22 0.0025 -0.16503 22 0.0021 -0.16503 22 0.0021 -0.16503 22 0.0021 -0.16503 22 0.00219 -0.16503 22 0.00123 -0.16503 22 0.00123 -0.16500 22 0.0012 -0.16500 20 0.0012 -0.16500 20 0.
SPS	CARLSBAD 69KV           CUNNINGHAM 230KV           CUNNINGHAM 230KV           CUNNINGHAM 156KV           MADOX 115KV	18 110 110 181 75 75 75 75 75 75 75 75	-0.07637 SPS -0.07304 SPS -0.07304 SPS -0.16007 SPS -0.16083 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS	MUSTGS 118.0 230KV MUSTANG 230KV MUSTANG 230KV PLANTX 230KV BLACKHAWK 115KV CZ 69KV CZ 69KV MCHOLS 115KV PLANTX 115KV PLANTX 115KV PLANTX 230KV SIDRCH 69KV	50 160 50 220 35 1066 82 168.9434 188	0.44753 -0.22057 11 0.14753 -0.22057 17 0.00419 -0.16486 22 0.00124 -0.16507 22 0.00125 -0.16436 22 0.00125 -0.16508 22 0.0025 -0.16503 22 0.0021 -0.16503 22 0.0021 -0.16503 22 0.0021 -0.16503 22 0.00219 -0.16503 22 0.00123 -0.16503 22 0.00123 -0.16500 22 0.0012 -0.16500 20 0.0012 -0.16500 20 0.
SPS	CARLSBAD 69KV           CUNNINGHAM 230KV           CUNNINGHAM 230KV           CUNNINGHAM 115KV           MADOX 115KV	18 110 110 181 75 75 75 75 75 75 75 75 75 75	-0.07637 SPS -0.07304 SPS -0.07304 SPS -0.16067 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS	MUSTG5 118.0 230KV' MUSTG5 230KV' MUSTG5 230KV' PLANTX 230KV' BLACKHAWK 115KV' CZ 68KV' HARRINGTON 230KV' NICHOLS 115KV' PLANTX 230KV' SIDRCH 68KV' SIDRCH 68KV' SIERE WATER 115KV'	50 160 50 189 220 35 1066 882 168.9434 189 14 88	0.14753 -0.22057 11 0.04753 -0.22057 11 0.00419 -0.16485 22 0.00124 -0.16456 22 0.00124 -0.164567 22 0.00125 -0.16456 22 0.00125 -0.16568 22 0.0021 -0.16563 22 0.0021 -0.16533 22 0.0021 -0.16802 22 0.0021 -0.16802 22 0.00123 -0.16802 22
SPS	CARLSBAD 69KV           CUNNINGHAM 230KV           CUNNINGHAM 230KV           CUNNINGHAM 230KV           CUNNINGHAM 136KV           MADOX 115KV           MADOX 115KV	18 110 110 181 75 75 75 75 75 75 75 75 75 75	-0.07337 SPS -0.07304 SPS -0.07304 SPS -0.07304 SPS -0.16303 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS	MUSTGS 118.0 230KV MUSTANG 230KV MUSTANG 230KV PLANTX 230KV BLACKHAWK 115KV CZ 88KV CHARRINGTON 230KV MICHOLS 115KV PLANTX 115KV PLANTX 115KV PLANTX 115KV SIDRCH 68KV15KV STEER WATER 115KV TOLK 230KV	50 160 50 189 220 35 1066 82 168.9434 189 14 8 8 1025.975	0.14753 -0.22057 11 0.14753 -0.22057 17 0.00419 -0.16486 22 0.00124 -0.16507 22 0.00124 -0.16508 22 0.00125 -0.16508 22 0.0021 -0.16503 22 0.0021 -0.16503 22 0.0021 -0.16503 22 0.0021 -0.16506 22 0.0013 -0.16506 22 0.0013 -0.16506 22 0.0016 -0.16508 22 0.0015 -0.16506 22
SPS           SPS	CARLSBAD 69KV           CUNNINGHAM 230KV           CUNNINGHAM 230KV           CUNNINGHAM 230KV           CUNNINGHAM 15KV           MADOX 115KV           MADOX 115KV	18 110 181 75 75 75 75 75 75 75 75 75 75 75 75	-0.07637 SPS -0.07304 SPS -0.07304 SPS -0.107304 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS	MUSTGS 118.0 230KV' MUSTGS 230KV MUSTGS 230KV PLANTX 230KV' PLANTX 230KV' BLACKHAWK 115KV' CZ 68KV HARRINGTON 230KV' NICHOLS 115KV' PLANTX 115KV' PLANTX 115KV' SIDRCH 68KV' SIDRCH 68KV' SIDRCH 230KV' MULWIND 230KV'	50 160 50 189 220 35 1066 82 168.9434 189 14 8 8 1025.975 16	0.14753 -0.22057 11 0.04191 -0.16486 22 0.00119 -0.16486 22 0.00112 -0.16495 22 0.00112 -0.16495 22 0.00124 -0.16507 22 0.00125 -0.16508 22 0.0021 -0.16503 22 0.0021 -0.16503 22 0.0021 -0.16802 22 0.00213 -0.16802 22 0.00123 -0.16802 22 0.00156 21 0.00156 22 0.00156 22 0.00156 22 0.00156 22 0.00156 22 0.00158 2
SPS	CARLSBAD 69KV           CUNNINGHAM 230KV           CUNNINGHAM 230KV           CUNNINGHAM 230KV           CUNNINGHAM 136KV           MADOX 115KV           MADOX 115KV	18 110 110 181 75 75 75 75 75 75 75 75 75 75	-0.07337 SPS -0.07304 SPS -0.07304 SPS -0.07304 SPS -0.16303 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS -0.16383 SPS	MUSTGS 118.0 230KV MUSTANG 230KV MUSTANG 230KV PLANTX 230KV BLACKHAWK 115KV CZ 88KV CHARRINGTON 230KV MICHOLS 115KV PLANTX 115KV PLANTX 115KV PLANTX 115KV SIDRCH 68KV15KV STEER WATER 115KV TOLK 230KV	50 160 50 189 220 35 1066 82 168.9434 189 14 8 8 1025.975	0.14753 -0.22057 11 0.14753 -0.22057 17 0.00419 -0.16486 22 0.00124 -0.16507 22 0.00124 -0.16508 22 0.00125 -0.16508 22 0.0021 -0.16503 22 0.0021 -0.16503 22 0.0021 -0.16503 22 0.0021 -0.16506 22 0.0013 -0.16506 22 0.0013 -0.16506 22 0.0016 -0.16508 22 0.0015 -0.16506 22

Arise To a construction of the construction of

NORTHVIEW - SUMMIT 115KV CKT 1 NORTHVIEW - SUMMIT 115KV CKT 1 To--From EXIDE JUNCTION - NORTH AMERICAN PHILIPS 115KV CKT 1 573715738115736857372123085P Starting 2008 6/1 - 10/1 Until EOC 2008 Summer Peak Upgrade: Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed: Season Flowgate Identified Season Flowgate Identified: Aggregate Relief Reservation Relief Amount Amount 1161506 9.7 1161997 9.7 Sink Aggregate Redispatch 
 Control
 Area

 W)
 GSF
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 38.1
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 Control Source CLAY CENTER JUNCTION 115KV laximum Maximum m
(I(W) GSF Factor
152 0.08171 - 0.32283
75 0.0228 -0.2504
940 0.00942 -0.25064
320 -0.00016 -0.24105
300 0.0001 -0.24132
49.21387 -0.00013 -0.24109
191 -0.00013 -0.24109
191 -0.00013 -0.24109
191 -0.00013 -0.24109
55.637 -0.0024 -0.24098 Amount (MW) Increment(MW) Decrement(MW) SMOKEY HILLS 34KV 'KNOLL 3 115 115KV' 'JEFFREY ENERGY CENTER 345KV' 37 39 40 40 40 40 40 
 NINGLE 3 TIJ TIKY

 JEFFREY EMERGY CENTER 345KV

 JEFFREY EMERGY CENTER 345KV

 JARIES 161KV

 ARIES 161KV

 JASBURY 161KV

 BULL CREEK 161KV

 CHANUTE 69KV

 CITY OF AUGUSTA 69KV

 CITY OF BURLINGTON 69KV

 CITY OF HIGINSVILLE 69KV

 CITY OF WINFIELD 69KV

 CITY OF WINFIEL 69KV

 CITY OF WINFIEL 69KV

 CITY OF WINFIEL 69KV

 COTFY OF WINFIEL 69KV

 COFFEY COUNTY NO. 2 SHARPE 69KV

 COGFEY COUNTY NO. 2 SHARPE 69KV

 COGRACHE 138KV

 35.0342
 0.00057

 55.637
 -0.00024

 24
 -0.00082

 34.061
 -0.00034

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 35
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 -0.0007
 -0.24098 40 40 40 40 -0.2404 -0.24088 -0.24098 -0.24143 40 40 40 -0.24103 WER WER CLAY CENTER JUNCTION 115K CLAY CENTER JUNCTION 115K 38.1 -0.24122 WERE 38.1 -0.24122 WERE 26.77 -0.0007 23.001 -0.0005 -0.2405 CLAY CENTER JUNCTION 115KV CLAY CENTER JUNCTION 115KV 38.1 -0.24122 WERE 38.1 -0.24122 AEPW 19.98 -0.00034 865 -0.00024 -0.24088 40 40 WERE -0.24098 WERE WERE WERE WERE WERE WERE 
 38.1
 -0.24122 AEPW

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 160
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 46
 -0.0005
 -0.24082

 305
 -0.00078
 -0.24044

 126
 -0.00014
 -0.24044

 428
 -0.00018
 -0.24104
 CLAY CENTER JUNCTION 115KV 40 40 40 COMANCHE 138KV COMANCHE 69KV EASTMAN 138KV 'ELK RIVER 345KV' 'EVANS ENERGY CENTER 138KV' 'FITZHUGH 161KV' 'FLINT CREEK 161KV' 40 40 CLAY CENTER JUNCTION 115K 40 40

WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 AEPW	'FULTON 115KV'	24.99999	-0.00014 -0.24108	40
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122 WERE	'GILL ENERGY CENTER 138KV'	155	-0.00119 -0.24003	40
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122 KACP	'HAWTHORN 161KV'	769	0.00042 -0.24164	40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 OKGE	'HORSESHOE LAKE 138KV'	798.498	-0.00035 -0.24087	40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 OKGE	'HORSESHOE LAKE 69KV'	16	-0.00034 -0.24088	40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 KACP	'IATAN 345KV'	396	0.00157 -0.24279	40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00081 -0.24203	40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 AEPW	'KNOXLEE 138KV'	284	-0.00014 -0.24108	40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 KACP	'LACYGNE UNIT 345KV'	958	-0.00001 -0.24121	40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 MIPU	'LAKE ROAD 161KV'	35	0.00077 -0.24199	40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 MIPU	'LAKE ROAD 34KV'	92	0.00077 -0.24199	40
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122 WERE	'LANG 7 345 345KV'	310	-0.00032 -0.2409	40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 EMDE	'LARUSSEL 161KV'	116	-0.00011 -0.24111	40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 AEPW	'LEBROCK 345KV' 'LIEBERMAN 138KV'	315	-0.00014 -0.24108	40 40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 AEPW		159	-0.00014 -0.24108	
WERE	CLAY CENTER JUNCTION 115KV CLAY CENTER JUNCTION 115KV	38.1 38.1	-0.24122 OKGE -0.24122 KACP	MCCLAIN 138KV' MONTROSE 161KV'	478 359.0945	-0.00036 -0.24086 0.00016 -0.24138	40 40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 KACP -0.24122 OKGE	MUSKOGEE 345KV	359.0945	-0.00022 -0.24138	40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 OKGE	'MUSTANG 138KV'	365.5	-0.00022 -0.241	40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 OKGE	'MUSTANG 69KV'	106	-0.00036 -0.24086	40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 AEPW	'NARROWS 69KV'	22	-0.00018 -0.24104	40
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122 KACY	'NEARMAN 161KV'	77		40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 KACY	'NEARMAN 20KV'	235	0.00042 -0.24164	40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00023 -0.24099	40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00023 -0.24099	40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 AEPW	'OEC 345KV'	369	-0.00023 -0.24099	40
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122 OKGE	'OMPA-KAW 69KV'	19.7	-0.00044 -0.24078	40
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122 OKGE	'OMPA-PONCA CITY 69KV'	82.02393	-0.00044 -0.24078	40
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122 OKGE	'ONE OAK 345KV'	336	-0.00037 -0.24085	40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 EMDE	'OZARK BEACH 161KV'	16	-0.00009 -0.24113	40
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122 AEPW	'PIRKEY GENERATION 138KV'	490	-0.00014 -0.24108	40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 KACY	'QUINDARO 161KV'	118.0639	0.00043 -0.24165	40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 KACY	'QUINDARO 69KV'	137.1869	0.00043 -0.24165	40
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122 OKGE	'REDBUD 345KV'	250	-0.00034 -0.24088	40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 AEPW	'RIVERSIDE STATION 138KV'	722	-0.00024 -0.24098	40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 EMDE	'RIVERTON 161KV'	195.454	-0.00014 -0.24108	40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 EMDE	'RIVERTON 69KV'	44.57413	-0.00014 -0.24108	40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 AEPW	'RVRSIDEG13.8 138KV'	172	-0.00024 -0.24098	40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 OKGE	SEMINOLE 138KV	483.933	-0.00034 -0.24088	40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 OKGE	SEMINOLE 345KV	996	-0.00034 -0.24088	40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 MIPU	SIBLEY 161KV	227.1588	0.00031 -0.24153	40 40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 MIPU	SIBLEY 69KV	45.99999	0.00034 -0.24156	
WERE	CLAY CENTER JUNCTION 115KV CLAY CENTER JUNCTION 115KV	38.1 38.1	-0.24122 OKGE -0.24122 OKGE	'SMITH COGEN 138KV' 'SOONER 138KV'	120	-0.00036 -0.24086 -0.00041 -0.24081	40 40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 OKGE	SOONER 138KV	505	-0.00041 -0.24081	40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 OKGE	SOUTH HARPER 161KV	175.8544	0.00002 -0.24124	40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 AEPW	SOUTHWESTERN STATION 138KV	369	-0.0004 -0.24082	40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 EMDE	STATE LINE 161KV	503	-0.00014 -0.24108	40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 AEPW	TULSA POWER STATION 138KV	259	-0.00024 -0.24098	40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 WERE	WACO 138KV	17.967	-0.00115 -0.24007	40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 AEPW	WELEETKA 138KV	84	-0.00027 -0.24095	40
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122 AEPW	'WELSH 345KV'	1044	-0.00016 -0.24106	40
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 AEPW	WILKES 138KV	445.2025	-0.00015 -0.24107	40
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122 AEPW	'WILKES 345KV'	311		40
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122 WEPL	'A. M. MULLERGREN GENERATOR 115KV'	63	-0.006 -0.23522	41
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122 WEPL	'GRAY COUNTY WIND FARM 115KV'	100	-0.00386 -0.23736	41
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 WEPL	'JUDSON LARGE 115KV'	113.5708	-0.00388 -0.23734	41
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 WERE	'LAWRENCE ENERGY CENTER 230KV'	251.3802	-0.00245 -0.23877	41
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122 WERE	'TECUMSEH ENERGY CENTER 115KV'	108	-0.00515 -0.23607	41
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 WEPL	'CLIFTON 115KV'	65	-0.01161 -0.22961	42
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.12249 WERE	'SMOKEY HILLS 34KV'	152	0.08171 -0.2042	47
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 WERE	'HUTCHINSON ENERGY CENTER 115KV'	155.2908	-0.06758 -0.17364	56
WERE	'HUTCHINSON ENERGY CENTER 115KV'	340.7092	-0.06758 WERE	'SMOKEY HILLS 34KV'	152	0.08171 -0.14929	65
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.06753 WERE	'SMOKEY HILLS 34KV'	152	0.08171 -0.14924	65
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.12249 WERE	KNOLL 3 115 115KV	75	0.0228 -0.14529	67
WERE	BPU - CITY OF MCPHERSON 115KV	259 259	-0.12249 WERE	JEFFREY ENERGY CENTER 345KV IATAN 345KV	940	0.00942 -0.13191	73 78
WERE	'BPU - CITY OF MCPHERSON 115KV' 'BPU - CITY OF MCPHERSON 115KV'		-0.12249 KACP -0.12249 WERE			0.00157 -0.12406	
WERE	BPU - CITY OF MCPHERSON 115KV BPU - CITY OF MCPHERSON 115KV	259 259	-0.12249 WERE -0.12249 MIPU	'JEFFREY ENERGY CENTER 230KV' 'LAKE ROAD 161KV'	470	0.00081 -0.1233 0.00077 -0.12326	78 78
WERE	BPU - CITY OF MCPHERSON 115KV BPU - CITY OF MCPHERSON 115KV	259	-0.12249 MIPU -0.12249 MIPU	LAKE ROAD 161KV	35	0.00077 -0.12326	78
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.12249 MIPO	AES 161KV	320	-0.00016 -0.12233	78
WERE	'BPU - CITY OF MCPHERSON 115KV	259	-0.12249 OKGE	ARIES 161KV	320	0.0001 -0.12259	79
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.12249 AEPW	'ARSENAL HILL 69KV'	49.21387	-0.00013 -0.12236	79
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.12249 EMDE	ASBURY 161KV	49.21387	-0.00013 -0.12236	79
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.12249 KACP	BULL CREEK 161KV	239.0542	0.00057 -0.12306	79
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 Image: Number Information
 Im

Upgrade:	NORTHVIEW - SUMMIT 115KV CKT 1								
Limiting Facility:	NORTHVIEW - SUMMIT 115KV CKT 1								
Direction:	To->From								
Line Outage:	EXIDE JUNCTION - SUMMIT 115KV CKT 1								
Flowgate:	57371573811573685738112207SH								
Date Redispatch Needed:	6/1 - 10/1 Until EOC of Upgrade								
Season Flowgate Identified:	2007 Summer Shoulder								
		Aggregate Relief							
Reservation	Relief Amount	Amount							
116199	7	2.7 2.	7						
ĺ				Sink					Aggregate
		Maximum		Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink		GSF	Factor	Amount (MW)
WERE	'ABILENE ENERGY CENTER 115KV'			4 WERE	'COLBY 115KV'	4.028258	0.00334	-0.36758	
WERE	'ABILENE ENERGY CENTER 115KV'		6 -0.3642		'IATAN 345KV'	396		-0.36628	
WERE	'ABILENE ENERGY CENTER 115KV'	6		4 WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00189	-0.36613	
WERE	'ABILENE ENERGY CENTER 115KV'	6		4 WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01057	-0.37481	
WERE	'ABILENE ENERGY CENTER 115KV'		6 -0.3642		'A. M. MULLERGREN GENERATOR 115KV'	63	-0.01482	-0.34942	
WERE	'ABILENE ENERGY CENTER 115KV'	6		4 OKGE	'AES 161KV'	320	-0.00021	-0.36403	
WERE	'ABILENE ENERGY CENTER 115KV'	6			'ARIES 161KV'	300	0.00054	-0.36478	
WERE	'ABILENE ENERGY CENTER 115KV'			4 EMDE	'ASBURY 161KV'	191	-0.00001	-0.36423	
WERE	'ABILENE ENERGY CENTER 115KV'	6		4 WERE	CHANUTE 69KV	46.617	-0.0001	-0.36414	
WERE	'ABILENE ENERGY CENTER 115KV'	6		4 WERE	'CITY OF AUGUSTA 69KV'	20	-0.00068	-0.36356	
WERE	'ABILENE ENERGY CENTER 115KV'	6		4 WERE	'CITY OF BURLINGTON 69KV'	27.75	-0.00003	-0.36421	
WERE	'ABILENE ENERGY CENTER 115KV'	6		4 WERE	'CITY OF ERIE 69KV'	23.258	-0.0001	-0.36414	
WERE	'ABILENE ENERGY CENTER 115KV'	6		4 WERE	'CITY OF GIRARD 69KV'	2.989	-0.00002	-0.36422	
WERE	'ABILENE ENERGY CENTER 115KV'	6	6 -0.3642	4 WERE	CITY OF IOLA 69KV	19.865	-0.00004	-0.3642	2
WERE	'ABILENE ENERGY CENTER 115KV'	6		4 WERE	'CITY OF MULVANE 69KV'	6.189	-0.00082		
WERE	'ABILENE ENERGY CENTER 115KV'	6	6 -0.3642	4 WERE	'CITY OF WINFIELD 69KV'	16.47	-0.0007	-0.36354	ł
WERE	'ABILENE ENERGY CENTER 115KV'	6		4 WERE	'CLR_1 .575 34KV'	40.0044	-0.00031	-0.36393	
WERE	'ABILENE ENERGY CENTER 115KV'	6		4 WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	-0.00003	-0.36421	
WERE	'ABILENE ENERGY CENTER 115KV'	6		4 AEPW	'COGENTRIX 345KV'	200	-0.00031	-0.36393	
WERE	'ABILENE ENERGY CENTER 115KV'	6		4 AEPW	'COMANCHE 138KV'	160	-0.00095	-0.36329	
WERE	'ABILENE ENERGY CENTER 115KV'	6		4 AEPW	COMANCHE 69KV	63	-0.00094	-0.3633	
WERE	'ABILENE ENERGY CENTER 115KV'	6		4 AEPW	'EASTMAN 138KV'	355	-0.00025	-0.36399	
WERE	'ABILENE ENERGY CENTER 115KV'	6		4 EMDE	'ELK RIVER 345KV'	150	-0.00031	-0.36393	
WERE	'ABILENE ENERGY CENTER 115KV'	6	6 -0.3642	4 WERE	'EVANS ENERGY CENTER 138KV'	270.5388	-0.00065	-0.36359	9
WERE	'ABILENE ENERGY CENTER 115KV'	6	6 -0.3642	4 AEPW	'FITZHUGH 161KV'	7.999987	-0.00018	-0.36406	6
WERE	'ABILENE ENERGY CENTER 115KV'	6	6 -0.3642	4 AEPW	'FLINT CREEK 161KV'	400	-0.00016	-0.36408	

ERE	'ABILENE ENERGY CENTER 115KV'	66 -0.36424	4 WERE	'GILL ENERGY CENTER 138KV'	77	-0.00127	-0.36297
ERE	'ABILENE ENERGY CENTER 115KV'	66 -0.36424	4 WEPL	'GRAY COUNTY WIND FARM 115KV'	73	-0.01106	-0.35318
ERE	'ABILENE ENERGY CENTER 115KV'	66 -0.36424	4 KACP	'HAWTHORN 161KV'	661.084	0.00081	-0.36505
ERE	'ABILENE ENERGY CENTER 115KV'	66 -0.36424	4 OKGE	'HORSESHOE LAKE 138KV'	91	-0.0006	-0.36364
ERE	'ABILENE ENERGY CENTER 115KV'	66 -0.36424	4 OKGE	'HORSESHOE LAKE 69KV'	16	-0.00059	-0.36365
ERE	'ABILENE ENERGY CENTER 115KV'	66 -0.36424		'JUDSON LARGE 115KV'	100.033	-0.01106	-0.35318
RE	ABILENE ENERGY CENTER 115KV		4 AEPW	'KNOXLEE 138KV'	103	-0.00024	-0.364
RE	'ABILENE ENERGY CENTER 115KV'		4 AEPW	'L&D13 69KV'	11	-0.0002	-0.36404
RE	'ABILENE ENERGY CENTER 115KV'	66 -0.36424		'LACYGNE UNIT 345KV'	958	0.00043	-0.36467
RE	ABILENE ENERGY CENTER 115KV	66 -0.36424		LAKE ROAD 161KV	35	0.00106	-0.3653
RE	ABILENE ENERGY CENTER 115KV	66 -0.36424		LAKE ROAD 34KV	92	0.00106	-0.3653
RE	ABILENE ENERGY CENTER 115KV	66 -0.36424		'LAWRENCE ENERGY CENTER 230KV'	235.4122	-0.00198	-0.36226
RE	ABILENE ENERGY CENTER 115KV	66 -0.36424		LAWRENCE ENERGY CENTER 230RV		-0.00198	-0.364
RE	ABILENE ENERGY CENTER 115KV	66 -0.36424		LEBROCK 345KV	515	-0.00024	-0.36401
					4		
RE	'ABILENE ENERGY CENTER 115KV'	66 -0.36424		'MARSHALL 161KV'	15	0.00041	-0.36465
RE	'ABILENE ENERGY CENTER 115KV'	66 -0.36424		'MCCLAIN 138KV'	478	-0.00064	-0.3636
RE	'ABILENE ENERGY CENTER 115KV'	66 -0.36424		'MONTROSE 161KV'	351.9386	0.00053	-0.36477
RE	'ABILENE ENERGY CENTER 115KV'	66 -0.36424		'MUSKOGEE 345KV'	1516	-0.0003	-0.36394
RE	'ABILENE ENERGY CENTER 115KV'	66 -0.36424	4 OKGE	'MUSTANG 138KV'	57.76465	-0.00063	-0.36361
RE	'ABILENE ENERGY CENTER 115KV'	66 -0.36424	4 OKGE	'MUSTANG 69KV'	106	-0.00064	-0.3636
RE	'ABILENE ENERGY CENTER 115KV'	66 -0.36424	4 AEPW	'NARROWS 69KV'	22	-0.00031	-0.36393
RE	ABILENE ENERGY CENTER 115KV	66 -0.36424		'NEARMAN 161KV'	77	0.00084	-0.36508
RE	ABILENE ENERGY CENTER 115KV	66 -0.36424		'NEARMAN 20KV'	220	0.00084	-0.36508
RE	ABILENE ENERGY CENTER 115KV	66 -0.36424		'NORTHEASTERN STATION 138KV'	500	-0.00025	-0.36399
RE	ABILENE ENERGY CENTER 115KV	66 -0.36424		NORTHEASTERN STATION 136KV	608	-0.00025	-0.36401
RE	ABILENE ENERGY CENTER 115KV		4 AEPW	OEC 345KV	419	-0.00028	-0.36396
RE	'ABILENE ENERGY CENTER 115KV'	66 -0.36424		'OMPA-KAW 69KV'	19.7	-0.00058	-0.36366
RE	'ABILENE ENERGY CENTER 115KV'	66 -0.36424		'OMPA-PONCA CITY 69KV'	86.62021	-0.00058	-0.36366
RE	'ABILENE ENERGY CENTER 115KV'	66 -0.36424		'ONE OAK 345KV'	50	-0.00061	-0.36363
RE	'ABILENE ENERGY CENTER 115KV'	66 -0.36424		'OZARK BEACH 161KV'	16	-0.00001	-0.36423
RE	'ABILENE ENERGY CENTER 115KV'	66 -0.36424		'PIRKEY GENERATION 138KV'	440	-0.00024	-0.364
RE	'ABILENE ENERGY CENTER 115KV'	66 -0.36424	4 KACY	'QUINDARO 161KV'	116.9321	0.00085	-0.36509
RE	'ABILENE ENERGY CENTER 115KV'	66 -0.36424	4 KACY	'QUINDARO 69KV'	89.12805	0.00085	-0.36509
RE	'ABILENE ENERGY CENTER 115KV'	66 -0.36424		'REDBUD 345KV'	250	-0.00056	-0.36368
RE	ABILENE ENERGY CENTER 115KV	66 -0.36424		'RIVERSIDE STATION 138KV'	482	-0.00031	-0.36393
RE	ABILENE ENERGY CENTER 115KV	66 -0.36424		'RIVERTON 161KV'	38	-0.00005	-0.36419
RE	ABILENE ENERGY CENTER 115KV	66 -0.36424		'RIVERTON 69KV'	44.82093	-0.00005	-0.36419
RE	'ABILENE ENERGY CENTER 115KV'	66 -0.36424	LOKGE	'SEMINOLE 138KV'	484.787	-0.0006	-0.36364
RE	'ABILENE ENERGY CENTER 115KV'	66 -0.36424		'SEMINOLE 345KV'	996	-0.00059	-0.36365
RE	'ABILENE ENERGY CENTER 115KV'	66 -0.36424		'SIBLEY 161KV'	229.0592	0.00069	-0.36493
RE	'ABILENE ENERGY CENTER 115KV'	66 -0.36424		'SIBLEY 69KV'	45.99999	0.00072	-0.36496
RE	'ABILENE ENERGY CENTER 115KV'	66 -0.36424		'SMITH COGEN 138KV'	120	-0.00063	-0.36361
RE	'ABILENE ENERGY CENTER 115KV'	66 -0.36424		'SOONER 138KV'	505	-0.00057	-0.36367
RE	'ABILENE ENERGY CENTER 115KV'	66 -0.36424	4 OKGE	SOONER 345KV	513	-0.00059	-0.36365
RE	'ABILENE ENERGY CENTER 115KV'	66 -0.36424	4 MIPU	'SOUTH HARPER 161KV'	269.6653	0.00049	-0.36473
RE	'ABILENE ENERGY CENTER 115KV'		4 AEPW	SOUTHWESTERN STATION 138KV	155	-0.00094	-0.3633
RE	'ABILENE ENERGY CENTER 115KV'	66 -0.36424		STATE LINE 161KV	471.4843	-0.00004	-0.3642
RE	ABILENE ENERGY CENTER 115KV		4 WERE	TECUMSEH ENERGY CENTER 115KV	108	-0.00004	-0.35968
RE	ABILENE ENERGY CENTER 115KV	66 -0.36424		TULSA POWER STATION 138KV	106	-0.00456	-0.36394
	ABILENE ENERGY CENTER 115KV		+ AEPVV		17.947		
RE				'WACO 138KV'		-0.00121	-0.36303
RE	ABILENE ENERGY CENTER 115KV	66 -0.36424		WELSH 345KV	960	-0.00027	-0.36397
RE	'ABILENE ENERGY CENTER 115KV'		4 AEPW	WILKES 138KV	139.7875	-0.00025	-0.36399
RE	'ABILENE ENERGY CENTER 115KV'	66 -0.36424		WILKES 345KV	158.9639	-0.00025	-0.36399
RE	'ABILENE ENERGY CENTER 115KV'	66 -0.36424		'HUTCHINSON ENERGY CENTER 115KV'	140	-0.07064	-0.2936
RE	CLAY CENTER JUNCTION 115KV	38.1 -0.23986		'AES 161KV'	320	-0.00021	-0.23965
RE	CLAY CENTER JUNCTION 115KV	38.1 -0.23986	3 MIPU	'ARIES 161KV'	300	0.00054	-0.2404
RE	CLAY CENTER JUNCTION 115KV	38.1 -0.23986		'ASBURY 161KV'	191	-0.00001	-0.23985
RE	CLAY CENTER JUNCTION 115KV	38.1 -0.23986		CHANUTE 69KV'	46.617	-0.0001	-0.23976
RE	CLAY CENTER JUNCTION 115KV		6 WERE	CITY OF AUGUSTA 69KV	40.017	-0.00068	-0.23918
RE	CLAY CENTER JUNCTION 115KV	38.1 -0.23986		CITY OF BURLINGTON 69KV'	27.75	-0.00003	-0.23983
RE	CLAY CENTER JUNCTION 115KV	38.1 -0.23986		CITY OF ERIE 69KV	23.258	-0.00003	-0.23976
RE	CLAY CENTER JUNCTION 115KV	38.1 -0.23986		CITY OF ERIE 69KV	23.256	-0.00004	-0.23976
RE	CLAY CENTER JUNCTION 115KV		6 WERE	CITY OF MULVANE 69KV	6.189	-0.00082	-0.23904
E	CLAY CENTER JUNCTION 115KV		6 WERE	CITY OF WINFIELD 69KV	16.47	-0.0007	-0.23916
RE	CLAY CENTER JUNCTION 115KV		6 WERE	'CLR_1 .575 34KV'	40.0044	-0.00031	-0.23955
E	'CLAY CENTER JUNCTION 115KV'		6 WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	-0.00003	-0.23983
RE	'CLAY CENTER JUNCTION 115KV'	38.1 -0.23986		COGENTRIX 345KV	200	-0.00031	-0.23955
RE	CLAY CENTER JUNCTION 115KV	38.1 -0.23986	3 WERE	COLBY 115KV	4.028258	0.00334	-0.2432
RE	CLAY CENTER JUNCTION 115KV		6 AEPW	COMANCHE 138KV	160	-0.00095	-0.23891
RE	CLAY CENTER JUNCTION 115KV	38.1 -0.23986		COMANCHE 69KV	63	-0.00094	-0.23892
RE	CLAY CENTER JUNCTION 115KV		6 AEPW	'EASTMAN 138KV'	355	-0.00025	-0.23961
RE	CLAY CENTER JUNCTION 115KV	38.1 -0.23986		'ELK RIVER 345KV'	150	-0.00031	-0.23955
RE	CLAY CENTER JUNCTION 115KV	38.1 -0.23986		'EVANS ENERGY CENTER 138KV'	270.5388	-0.00065	-0.23933
RE					7.999987		
	'CLAY CENTER JUNCTION 115KV'	38.1 -0.23986	JAEPVV	'FITZHUGH 161KV'	1.999987	-0.00018	-0.23968
	at and Maximum Increment were determine from the Souce and Sink Oper						

Upgrade:	NORTHVIEW - SUMMIT 115KV CKT 1								
Limiting Facility:	NORTHVIEW - SUMMIT 115KV CKT 1								
Direction:	To->From								
Line Outage:	EXIDE JUNCTION - SUMMIT 115KV CKT 1								
Flowgate:	57371573811573685738112308SP								
Date Redispatch Needed:	Starting 2008 6/1 - 10/1 Until EOC								
Season Flowgate Identified:	2008 Summer Peak								
		Aggregate Relief	1						
Reservation	Relief Amount	Amount							
1161506	9.1	18.1							
1161997	8.9	18.1	1						
				Sink					Aggregate
		Maximum		Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	WERE	'SMOKEY HILLS 34KV'	152	0.08171		
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	WERE	'KNOLL 3 115 115KV'	75	0.0228	-0.26402	69
WERE	'CLAY CENTER JUNCTION 115KV'	38.1			'JEFFREY ENERGY CENTER 345KV'	940	0.00942	-0.25064	
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	OKGE	'AES 161KV'	320	-0.00016	-0.24106	75
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122		'ARIES 161KV'	300		-0.24132	
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122		'ARSENAL HILL 69KV'	49.21387		-0.24109	
WERE	'CLAY CENTER JUNCTION 115KV'	38.1			'ASBURY 161KV'	191	-0.00013	-0.24109	
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122		'BULL CREEK 161KV'	239.0542		-0.24179	
WERE	'CLAY CENTER JUNCTION 115KV'	38.1			'CHANUTE 69KV'	55.637			
WERE	'CLAY CENTER JUNCTION 115KV'	38.1			'CITY OF BURLINGTON 69KV'	34.061			
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122		CITY OF HIGGINSVILLE 69KV	35		-0.24143	
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122		'CITY OF WINFIELD 69KV'	26.77		-0.24052	
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122		COGENTRIX 345KV	865		-0.24098	75
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122		'COMANCHE 138KV'	160			75
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122		COMANCHE 69KV	63			75
WERE	'CLAY CENTER JUNCTION 115KV'	38.1			'EASTMAN 138KV'	155			
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122		'ELK RIVER 345KV'	46			
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122		'EVANS ENERGY CENTER 138KV'	305		-0.24044	. 75
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122		'FITZHUGH 161KV'	126		-0.24108	75
WERE	'CLAY CENTER JUNCTION 115KV'	38.1			'FLINT CREEK 161KV'	428			
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122		'GILL ENERGY CENTER 138KV'	155			75
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122		'HAWTHORN 161KV'	769			. 75
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122		'HORSESHOE LAKE 138KV'	798.498		-0.24087	75
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122		'IATAN 345KV'	396		-0.24279	
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122		'JEFFREY ENERGY CENTER 230KV'	470		-0.24203	
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	AEPW	'KNOXLEE 138KV'	284	-0.00014	-0.24108	75

WERE	'CLAY CENTER JUNCTION 115KV'		-0.24122 KACP	'LACYGNE UNIT 345KV'	958	-0.00001	-0.24121	75
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122 MIPU	'LAKE ROAD 161KV'	35	0.00077	-0.24199	75
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 MIPU	'LAKE ROAD 34KV'	92	0.00077	-0.24199	75
WERE	'CLAY CENTER JUNCTION 115KV'		-0.24122 WERE	'LANG 7 345 345KV'	310	-0.00032	-0.2409	75
WERE	'CLAY CENTER JUNCTION 115KV'		-0.24122 EMDE	'LARUSSEL 161KV'	116		-0.24111	75
WERE	CLAY CENTER JUNCTION 115KV		-0.24122 AEPW	LEBROCK 345KV	315		-0.24108	75
WERE	CLAY CENTER JUNCTION 115KV		-0.24122 AEPW	LIEBERMAN 138KV	159		-0.24108	75
WERE	'CLAY CENTER JUNCTION 115KV'		-0.24122 OKGE	'MCCLAIN 138KV'	478		-0.24086	75
WERE	'CLAY CENTER JUNCTION 115KV'		-0.24122 KACP	'MONTROSE 161KV'	359.0945		-0.24138	75
WERE	CLAY CENTER JUNCTION 115KV		-0.24122 OKGE	'MUSKOGEE 345KV'	1516	-0.00022	-0.241	75
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 OKGE	'MUSTANG 138KV'	365.5	-0.00036	-0.24086	75
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 OKGE	'MUSTANG 69KV'	106	-0.00036	-0.24086	75
WERE	CLAY CENTER JUNCTION 115KV		-0.24122 KACY	'NEARMAN 161KV'	77		-0.24164	75
WERE	CLAY CENTER JUNCTION 115KV		-0.24122 KACY	'NEARMAN 20KV'	235		-0.24164	75
								75
WERE	'CLAY CENTER JUNCTION 115KV'		-0.24122 AEPW	'NORTHEASTERN STATION 138KV'	500		-0.24099	75
WERE	CLAY CENTER JUNCTION 115KV		-0.24122 AEPW	'NORTHEASTERN STATION 345KV'	645		-0.24099	75
WERE	'CLAY CENTER JUNCTION 115KV'		-0.24122 AEPW	'OEC 345KV'	369		-0.24099	75
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 OKGE	'OMPA-PONCA CITY 69KV'	82.02393	-0.00044	-0.24078	75
WERE	CLAY CENTER JUNCTION 115KV		-0.24122 OKGE	'ONE OAK 345KV'	336	-0.00037	-0.24085	75
WERE	CLAY CENTER JUNCTION 115KV		-0.24122 AEPW	'PIRKEY GENERATION 138KV'	490		-0.24108	75
WERE	CLAY CENTER JUNCTION 115KV		-0.24122 KACY	QUINDARO 161KV	118.0639		-0.24165	75
WERE	CLAY CENTER JUNCTION 115KV		-0.24122 KACT	QUINDARO 69KV	137,1869			75
							-0.24165	
WERE	'CLAY CENTER JUNCTION 115KV'		-0.24122 OKGE	'REDBUD 345KV'	250		-0.24088	75
WERE	CLAY CENTER JUNCTION 115KV		-0.24122 AEPW	'RIVERSIDE STATION 138KV'	722		-0.24098	75
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 EMDE	'RIVERTON 161KV'	195.454	-0.00014	-0.24108	75
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 EMDE	'RIVERTON 69KV'	44.57413	-0.00014	-0.24108	75
WERE	CLAY CENTER JUNCTION 115KV		-0.24122 AEPW	'RVRSIDEG13.8 138KV'	172		-0.24098	75
WERE	CLAY CENTER JUNCTION 115KV		-0.24122 OKGE	SEMINOLE 138KV	483.933		-0.24088	75
WERE	CLAY CENTER JUNCTION 115KV		-0.24122 OKGE		403.933		-0.24088	75
	GLAT CENTER JUNCTION 115KV			SEMINOLE 345KV				/5
WERE	CLAY CENTER JUNCTION 115KV		-0.24122 MIPU	'SIBLEY 161KV'	227.1588		-0.24153	75
WERE	'CLAY CENTER JUNCTION 115KV'		-0.24122 MIPU	'SIBLEY 69KV'	45.99999		-0.24156	75
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122 OKGE	'SMITH COGEN 138KV'	120	-0.00036	-0.24086	75
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122 OKGE	SOONER 138KV	505	-0.00041	-0.24081	75
WERE	CLAY CENTER JUNCTION 115KV		-0.24122 OKGE	SOONER 345KV	513		-0.24081	75
WERE	CLAY CENTER JUNCTION 115KV		-0.24122 MIPU	SOUTH HARPER 161KV	175.8544		-0.24124	75
WERE	CLAY CENTER JUNCTION 115KV		-0.24122 AEPW	SOUTHWESTERN STATION 138KV	369		-0.24082	75
								75 75
WERE	'CLAY CENTER JUNCTION 115KV'		-0.24122 EMDE	STATE LINE 161KV	503		-0.24108	/5
WERE	CLAY CENTER JUNCTION 115KV		-0.24122 AEPW	'TULSA POWER STATION 138KV'	259		-0.24098	75
WERE	'CLAY CENTER JUNCTION 115KV'		-0.24122 AEPW	'WELEETKA 138KV'	84		-0.24095	75
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 AEPW	WELSH 345KV	1044	-0.00016	-0.24106	75
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 AEPW	WILKES 138KV	445.2025	-0.00015	-0.24107	75
WERE	CLAY CENTER JUNCTION 115KV		-0.24122 AEPW	WILKES 345KV	311		-0.24107	75
WERE	CLAY CENTER JUNCTION 115KV		-0.24122 WEPL	GRAY COUNTY WIND FARM 115KV	100		-0.23736	76
WERE	CLAY CENTER JUNCTION 115KV		-0.24122 WEPL	JUDSON LARGE 115KV	113.5708		-0.23734	76
WERE	'CLAY CENTER JUNCTION 115KV'		-0.24122 WERE	'LAWRENCE ENERGY CENTER 230KV'	251.3802		-0.23877	76
WERE	CLAY CENTER JUNCTION 115KV		-0.24122 WEPL	'A. M. MULLERGREN GENERATOR 115KV'	63		-0.23522	77
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 WERE	'TECUMSEH ENERGY CENTER 115KV'	108	-0.00515	-0.23607	77
WERE	CLAY CENTER JUNCTION 115KV	38.1	-0.24122 WEPL	CLIFTON 115KV	65	-0.01161	-0.22961	79
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.12249 WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.2042	89
WERE	CLAY CENTER JUNCTION 115KV		-0.24122 WERE	'HUTCHINSON ENERGY CENTER 115KV'	155.2908		-0.17364	104
WERE	'HUTCHINSON ENERGY CENTER 115KV'		-0.06758 WERE		152		-0.14929	121
								121
WERE	'HUTCHINSON ENERGY CENTER 69KV'			'SMOKEY HILLS 34KV'	152		-0.14924	
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.12249 WERE	'KNOLL 3 115 115KV'	75		-0.14529	125
WERE	'BPU - CITY OF MCPHERSON 115KV'		-0.12249 WERE	'JEFFREY ENERGY CENTER 345KV'	940		-0.13191	137
WERE	'BPU - CITY OF MCPHERSON 115KV'		-0.12249 KACP	'IATAN 345KV'	396		-0.12406	146
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.12249 KACP	'BULL CREEK 161KV'	239.0542	0.00057	-0.12306	147
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.12249 KACP	'HAWTHORN 161KV'	769	0.00042	-0.12291	147
WERE	BPU - CITY OF MCPHERSON 115KV		-0.12249 WERE	JEFFREY ENERGY CENTER 230KV	470	0.00081	-0.1233	147
WERE	BPU - CITY OF MCPHERSON 115KV		-0.12249 MIPU	LAKE ROAD 34KV	92		-0.12326	147
WERE	BPU - CITY OF MCPHERSON 115KV		-0.12249 KACP	MONTROSE 161KV	359.0945		-0.123265	147
WERE	BPU - CITY OF MCPHERSON 115KV		-0.12249 KACY	'NEARMAN 161KV'	77		-0.12291	147
WERE	'BPU - CITY OF MCPHERSON 115KV'		-0.12249 KACY	'NEARMAN 20KV'	235		-0.12291	147
WERE	'BPU - CITY OF MCPHERSON 115KV'		-0.12249 KACY	'QUINDARO 161KV'	118.0639		-0.12292	147
WERE	'BPU - CITY OF MCPHERSON 115KV'		-0.12249 KACY	'QUINDARO 69KV'	137.1869		-0.12292	147
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.12249 MIPU	'SIBLEY 161KV'	227.1588	0.00031	-0.1228	147
WERE	BPU - CITY OF MCPHERSON 115KV		-0.12249 OKGE	'AES 161KV'	320		-0.12233	148
WERE	BPU - CITY OF MCPHERSON 115KV		-0.12249 MIPU	'ARIES 161KV'	300		-0.12259	140
	BPU - CITY OF MCPHERSON 115KV		-0.12249 EMDE	ARIES TOTAL	191		-0.12239	
WERE								148
WERE	'BPU - CITY OF MCPHERSON 115KV'		-0.12249 WERE	CHANUTE 69KV	55.637		-0.12225	148
WERE	'BPU - CITY OF MCPHERSON 115KV'		-0.12249 AEPW	'COGENTRIX 345KV'	865		-0.12225	148
	'BPU - CITY OF MCPHERSON 115KV'		-0.12249 AEPW	'COMANCHE 138KV'	160		-0.12209	148
WERE						0.0004	0.40000	148
WERE WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.12249 AEPW	COMANCHE 69KV	63	-0.0004	-0.12209	140
WERE			-0.12249 AEPW -0.12249 AEPW	COMANCHE 69KV' 'EASTMAN 138KV'	63		-0.12209	148
	'BPU - CITY OF MCPHERSON 115KV'	259		'EASTMAN 138KV'		-0.00014		

Factor = Source GSF - Sink GSF Redispatch Amount = Relief Amount / Factor

Potter - Roosevelt 345KV Displacement CANYON EAST - OSAGE SWITCHING STATION 115KV CKT 1 To->From BUSHLAND INTERCHANGE - DEAF SMITH INTERCHANGE 230KV CKT 1 51080510141509935111114407SP 6/107 - 10/107 2007 Summer Peak Upgrade: Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed: Season Flowgate Identified Season Flowgate Identified: Aggregate Relief Relief Amount Reservation Amount 1162675 Aggregate laximum Control Area Maximum Redispatch Source Control Area SPS SPS SPS Source TUCUMCARI 115KV PLANTX 115KV 
 0
 CSF
 Outmage

 15
 -0.12467
 SPS

 48
 -0.10265
 SPS
 Decrement(MW) 
 WW)
 GSF
 Factor

 147
 0.0568
 0.17832

 147
 0.0568
 0.17832

 0.04955
 0.17422
 0.16949

 0.04355
 0.17422
 0.16989

 0.0452
 0.16989
 0.16927

 11
 0.0452
 0.16987

 147
 0.04527
 0.17047

 20
 0.0452
 0.16987

 141
 0.0459
 0.17057

 15
 0.0452
 0.14639

 20
 0.0452
 0.14707

 20
 0.0452
 0.14639

 39
 0.04522
 0.1479

 1066
 0.04325
 0.1439

 11
 0.0494
 0.14305

 14
 0.0434
 0.14605
 Amount (MW) Source ncrement(MW) GSF Sink GSF Factor NICHOLS 115KV STEER WATER 115KV BLACKHAWK 115KV 'CZ 69KV' 'HARRINGTON 230KV' LZ 209N/ HARRINGTON 230KV HUBRC02 69KV NOCRE COUNTY 115KV NICHOLS 230KV SIDRCH 69KV WILWIND 230KV BLACKHAWK 115KV HUBRC02 69KV HUBRC02 69KV HUBRC02 69KV NICHOLS 230KV NICHOLS 215KV NICHOLS 230KV SIDRCH 69KV SIDRCH 69KV SIDRCH 69KV 
 16
 0.04107

 220
 0.04574

 39
 0.04522

 1066
 0.04325

 11
 0.0459

 48
 0.0434

 147
 0.05366

 147
 0.04329

 20
 0.04329

 8
 0.04359
 -0.15631 -0.14592 -0.14855 SPS SPS SPS SPS 8 0.04955 147 0.05366 'PLANTX 115KV' 48 -0.10265 SPS 55.57416 -0.09626 SPS -0.152 TOLK 230KV NICHOLS 115KV -0.14992 INICHOLS 115KV STEER WATER 115KV BLACKHAWK 115KV 'CZ 69KV' HUBRCO2 69KV' NICHOLS 115KV' SIDRCH 69KV' STEER WATER 115KV' -0.09626 SPS -0.09626 SPS -0.0913 SPS -0.0913 SPS -0.0913 SPS -0.0913 SPS -0.0913 SPS -0.0913 SPS 
 147
 0.0336b

 8
 0.04955

 220
 0.04574

 39
 0.04522

 11
 0.0459

 147
 0.05366

 20
 0.0459

 8
 0.04955
 TOLK 230KV 'CARLSBAD 69KV 'CARLSBAD 69KV 'CARLSBAD 69KV 'CARLSBAD 69KV -0.14592 -0.14581 -0.13704 -0.13652 -0.1372 -0.14496 SPS SPS SPS SPS SPS 55.57416 18 18 18 CARLSBAD 69K SPS SPS 18 18 -0.137

14 14

14 14

SPS SPS	CUNNINGHAM 115KV	46.30859 -0.08775 SPS	'NICHOLS 115KV'	147	0.05366 -0.14141 1
202	CUNNINGHAM 115KV CUNNINGHAM 115KV	46.30859 -0.08775 SPS 46.30859 -0.08775 SPS	STEER WATER 115KV	14/	0.04955 -0.1373 1
SPS	MADOX 115KV	46.30859 -0.08775 SPS 75 -0.08763 SPS	NICHOLS 115KV	147	0.05366 -0.1373 1
SPS	MADOX 115KV MADOX 115KV	75 -0.08763 SPS 75 -0.08763 SPS	STEER WATER 115KV	14/	0.04955 -0.13718 1
SPS	PLANTX 115KV	48 -0.10265 SPS	WILWIND 230KV	16	0.04955 -0.13718 1
SPS	'TOLK 230KV'	55.57416 -0.09626 SPS	'BLACKHAWK 115KV'	220	0.04574 -0.142 1
SPS	'TOLK 230KV'	55.57416 -0.09626 SPS	'CZ 69KV'	39	0.04522 -0.14148 1
SPS	'TOLK 230KV'	55.57416 -0.09626 SPS	'HARRINGTON 230KV'	1066	0.04325 -0.13951 1
SPS	'TOLK 230KV'	55.57416 -0.09626 SPS	'HUBRCO2 69KV'	11	0.0459 -0.14216 1
SPS	'TOLK 230KV'	55.57416 -0.09626 SPS	'MOORE COUNTY 115KV'	48	0.0434 -0.13966 1
SPS	'TOLK 230KV'	55.57416 -0.09626 SPS	'NICHOLS 230KV'	147	0.04327 -0.13953 1
SPS	TOLK 230KV	55.57416 -0.09626 SPS	SIDRCH 69KV	20	0.0459 -0.14216 1
SPS	TOLK 230KV	55.57416 -0.09626 SPS	WILWIND 230KV	16	0.04107 -0.13733 1
SPS	TUCUMCARI 115KV	15 -0.12467 WEPL	CIMARRON RIVER 115KV	14.82602	0.01416 -0.13883 1
SPS	TUCUMCARI 115KV	15 -0.12467 WEFE	CITY OF GOODLAND 115KV	6.8	0.01204 -0.13671 1
SPS	TUCUMCARI 115KV	15 -0.12467 SUNC	'CITY OF HUGOTON 69KV'	6.2	0.01449 -0.13916 1
SPS	'TUCUMCARI 115KV'	15 -0.12467 SUNC	'GARDEN CITY 115KV'	56.23386	0.01524 -0.13991 1
SPS	'TUCUMCARI 115KV'	15 -0.12467 WEPL	'GRAY COUNTY WIND FARM 115KV'	36	0.01234 -0.13701 1
SPS	'TUCUMCARI 115KV'	15 -0.12467 SUNC	'HOLCOMB 115KV'	268.4985	0.0154 -0.14007 1
SPS	TUCUMCARI 115KV	15 -0.12467 WEPL	'JUDSON LARGE 115KV'	104.7866	0.01232 -0.13699 1
SPS	'CARLSBAD 69KV'	18 -0.0913 SPS	'HARRINGTON 230KV'	1066	0.04325 -0.13455 1
SPS	'CARLSBAD 69KV'	18 -0.0913 SPS	'MOORE COUNTY 115KV'	48	0.0434 -0.1347 1
SPS	CARLSBAD 69KV	18 -0.0913 SPS	'NICHOLS 230KV'	147	0.04327 -0.13457 1
SPS	CARLSBAD 69KV	18 -0.0913 SPS	WILWIND 230KV	16	0.04107 -0.13237 1
SPS	CARLSBAD 69KV CUNNINGHAM 115KV	46.30859 -0.08775 SPS	BLACKHAWK 115KV	220	0.04107 -0.13237 1
	CUNNINGHAM 115KV		CZ 69KV		
SPS				39	0.04522 -0.13297 1
SPS	CUNNINGHAM 115KV	46.30859 -0.08775 SPS	'HARRINGTON 230KV'	1066	0.04325 -0.131 1
SPS	CUNNINGHAM 115KV	46.30859 -0.08775 SPS	'HUBRCO2 69KV'	11	0.0459 -0.13365 1
SPS	CUNNINGHAM 115KV	46.30859 -0.08775 SPS	'MOORE COUNTY 115KV'	48	0.0434 -0.13115 1
SPS	CUNNINGHAM 115KV	46.30859 -0.08775 SPS	'NICHOLS 230KV'	147	0.04327 -0.13102 1
SPS	CUNNINGHAM 115KV	46.30859 -0.08775 SPS	SIDRCH 69KV	20	0.0459 -0.13365 1
SPS	CUNNINGHAM 115KV	46.30859 -0.08775 SPS	WILWIND 230KV	16	0.04107 -0.12882 1
SPS	'MADOX 115KV'	75 -0.08763 SPS	'BLACKHAWK 115KV'	220	0.04574 -0.13337 1
SPS	'MADOX 115KV'	75 -0.08763 SPS	CZ 69KV	39	0.04522 -0.13285 1
SPS	'MADOX 115KV'	75 -0.08763 SPS	HARRINGTON 230KV	1066	0.04325 -0.13088 1
SPS	MADOX 115KV	75 -0.08763 SPS	HUBRCO2 69KV	11	0.0459 -0.13353 1
SPS	'MADOX 115KV'	75 -0.08763 SPS	'MOORE COUNTY 115KV'	48	0.0434 -0.13103 1
SPS	'MADOX 115KV'	75 -0.08763 SPS	'NICHOLS 230KV'	147	0.04327 -0.1309 1
SPS	'MADOX 115KV'	75 -0.08763 SPS	'SIDRCH 69KV'	20	0.0459 -0.13353 1
SPS	'MADOX 115KV'	75 -0.08763 SPS	WILWIND 230KV	16	0.04107 -0.1287 1
SPS	'TUCUMCARI 115KV'	15 -0.12467 WEPL	'A. M. MULLERGREN GENERATOR 115KV'	63	0.00861 -0.13328 1
SPS	'TUCUMCARI 115KV'	15 -0.12467 WEPL	CLIFTON 115KV	65	0.00328 -0.12795 1
SPS	'TUCUMCARI 115KV'	15 -0.12467 AEPW	'WEATHERFORD 34KV'	148	0.00434 -0.12901 1
SPS	'TUCUMCARI 115KV'	15 -0.12467 AEPW	'AEP-CT0113.8 161KV'	85	-0.00089 -0.12378 1
SPS	TUCUMCARI 115KV	15 -0.12467 AEPW	'AEP-CT0213.8 161KV'	75	-0.00089 -0.12378 1
SPS	TUCUMCARI 115KV	15 -0.12467 AEPW	COGENTRIX 345KV	200	-0.00156 -0.12311 1
SPS	TUCUMCARI 115KV	15 -0.12407 AEPW	'EASTMAN 138KV'		-0.00138 -0.12311 1
				355	
SPS	'TUCUMCARI 115KV'	15 -0.12467 AEPW	'FITZHUGH 161KV'	30.99999	-0.00097 -0.1237 1
SPS	'TUCUMCARI 115KV'	15 -0.12467 AEPW	'FLINT CREEK 161KV'	420	-0.00089 -0.12378 1
SPS	'TUCUMCARI 115KV'	15 -0.12467 AEPW	'KNOXLEE 138KV'	164	-0.00147 -0.1232 1
SPS	'TUCUMCARI 115KV'	15 -0.12467 AEPW	'L&D13 69KV'	11	-0.00108 -0.12359 1
SPS	'TUCUMCARI 115KV'	15 -0.12467 AEPW	'LEBROCK 345KV'	515	-0.00147 -0.1232 1
SPS	'TUCUMCARI 115KV'	15 -0.12467 AEPW	'LIEBERMAN 138KV'	73.99999	-0.00137 -0.1233 1
SPS	'TUCUMCARI 115KV'	15 -0.12467 AEPW	'NARROWS 69KV'	22	-0.00182 -0.12285 1
SPS	TUCUMCARI 115KV	15 -0.12467 AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00117 -0.1235 1
SPS	TUCUMCARI 115KV	15 -0.12467 AEPW	'NORTHEASTERN STATION 345KV'	645	-0.0011 -0.12357 1
SPS	TUCUMCARI 115KV	15 -0.12467 AEPW 15 -0.12467 AEPW	OEC 345KV	269	-0.00112 -0.12357 1
SPS	TUCUMCARI 115KV	15 -0.12467 AEPW	PIRKEY GENERATION 138KV	475	-0.00147 -0.1232 1
SPS	'TUCUMCARI 115KV'	15 -0.12467 AEPW	'RIVERSIDE STATION 138KV'	556	-0.00154 -0.12313 1
SPS	'TUCUMCARI 115KV'	15 -0.12467 AEPW	'SLEEPING BEAR 138KV'	80	0.00194 -0.12661 1
SPS	'TUCUMCARI 115KV'	15 -0.12467 AEPW	'SOUTHWESTERN STATION 138KV'	257	-0.0024 -0.12227 1
SPS	'TUCUMCARI 115KV'	15 -0.12467 AEPW	'TULSA POWER STATION 138KV'	152	-0.0015 -0.12317 1
SPS	'TUCUMCARI 115KV'	15 -0.12467 AEPW	WELEETKA 138KV	70	-0.00206 -0.12261 1
SPS	TUCUMCARI 115KV	15 -0.12467 AEPW	WELSH 345KV	990	-0.00163 -0.12304 1
SPS	TUCUMCARI 115KV	15 -0.12467 AEPW	WILKES 138KV	227.0091	-0.00152 -0.12315 1
SPS	TUCUMCARI 115KV	15 -0.12467 AEPW	WILKES 345KV	311	-0.0015 -0.12317 1
SPS	LP-HOLL2 69KV	132 -0.06477 SPS	'NICHOLS 115KV'	147	0.05366 -0.11843 1
				14/	
SPS	LP-HOLL2 69KV	132 -0.06477 SPS	STEER WATER 115KV	8	0.04955 -0.11432 1
SPS	'LP-MACK2 69KV'	20 -0.06451 SPS	'NICHOLS 115KV'	147	0.05366 -0.11817 1
SPS	'LP-MACK2 69KV'	20 -0.06451 SPS	'STEER WATER 115KV'	8	0.04955 -0.11406 1
	'PLANTX 115KV'	48 -0.10265 WEPL	'CIMARRON RIVER 115KV'	14.82602	0.01416 -0.11681 1
SPS	'PLANTX 115KV'	48 -0.10265 SUNC	'CITY OF GOODLAND 115KV'	6.8	0.01204 -0.11469 1
SPS					
		48 -0.10265 SUNC	CITY OF HUGOTON 69KV	6.2	0.01449 -0.11714 1
SPS SPS	'PLANTX 115KV'			6.2	0.01449 -0.11714 1
SPS SPS	PLANTX 115KV' and Maximum Increment were determine from the Souce and			6.2	0.01449 -0.11714 1

Upgrade:	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER I			
Limiting Facility:	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER (	CKT 1		
Direction:	From->To			
Line Outage:	ROSE HILL (ROSEHL3X) 345/138/13.8KV TRANSFORMER	CKT 1		
Flowgate:	ROSEHL1X2741ROSESEHL3X7412207SP			
Date Redispatch Needed:	6/1/07 - 10/1/07			
Season Flowgate Identified:	2007 Summer Peak			
		Aggregate Relief	]	
Reservation	Relief Amount	Amount		
1161997	8.3	8.3	1	
				Sin
		Maximum		Co
0	0			

				Sink					Aggregate
		Maximum		Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)		Area	Sink				Amount (MW)
WERE	'CITY OF MULVANE 69KV'	7.502			'CLR_1 .575 34KV'	17.0034	0.09044		22
WERE	'CITY OF MULVANE 69KV'	7.502			'ELK RIVER 345KV'	150	0.09044		
WERE	'CITY OF AUGUSTA 69KV'	10.141	-0.24556	WERE	'CLR_1 .575 34KV'	17.0034	0.09044	-0.336	
WERE	'CITY OF AUGUSTA 69KV'	10.141	-0.24556	EMDE	'ELK RIVER 345KV'	150	0.09044	-0.336	
WERE	'CITY OF WINFIELD 69KV'	12.038			'CLR_1 .575 34KV'	17.0034	0.09044		
WERE	'CITY OF WINFIELD 69KV'	12.038	-0.21371	EMDE	'ELK RIVER 345KV'	150	0.09044	-0.30415	27
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.2085		'CLR_1 .575 34KV'	17.0034	0.09044		28
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.2085	EMDE	'ELK RIVER 345KV'	150	0.09044	-0.29894	28
WERE	'GILL ENERGY CENTER 69KV'	118			'CLR_1 .575 34KV'	17.0034	0.09044		28
WERE	'GILL ENERGY CENTER 69KV'	118			'ELK RIVER 345KV'	150	0.09044		28
WERE	'CITY OF AUGUSTA 69KV'	10.141	-0.24556	WERE	'CITY OF BURLINGTON 69KV'	34.753	0.045		
WERE	'CITY OF AUGUSTA 69KV'	10.141	-0.24556		'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.045		
WERE	'GETTY 69KV'	35			'CLR_1 .575 34KV'	17.0034	0.09044		30
WERE	'GETTY 69KV'	35			'ELK RIVER 345KV'	150	0.09044		30
WERE	'CITY OF WINFIELD 69KV'	12.038			'CITY OF BURLINGTON 69KV'	34.753	0.045	-0.25871	32
WERE	'CITY OF WINFIELD 69KV'	12.038			'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.045		32
WERE	'GILL ENERGY CENTER 69KV'	118			'CITY OF BURLINGTON 69KV'	34.753	0.045	-0.25603	
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21103		'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.045		32
WERE	'GILL ENERGY CENTER 138KV'	84.99999			'CITY OF BURLINGTON 69KV'	34.753	0.045		33
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.2085	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.045		33
WEPL	'HARPER 138KV'	17.21	-0.15495		'CLR_1 .575 34KV'	17.0034	0.09044		
WEPL	'HARPER 138KV'	17.21	-0.15495		'ELK RIVER 345KV'	150	0.09044	-0.24539	
WERE	'CITY OF WINFIELD 69KV'	12.038			'LACYGNE UNIT 345KV'	958	0.018	-0.23171	36
WERE	'GETTY 69KV'	35			'CITY OF BURLINGTON 69KV'	34.753	0.045		36
WERE	'GETTY 69KV'	35			'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.045	-0.23251	36
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21103	KACP	'LACYGNE UNIT 345KV'	958	0.018	-0.22903	36
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.2085		'LACYGNE UNIT 345KV'	958	0.018	-0.2265	37
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.2085	EMDE	'ASBURY 161KV'	191	0.00925	-0.21775	38

WERE	'GILL ENERGY CENTER 138KV'	84.99999	0.209	5 KACP	'BULL CREEK 161KV'	308	0.00849	-0.21699	38
WERE	GILL ENERGY CENTER 138KV	84.99999		5 KACP	PAOLA COMBUSTION TURBINES 161KV	75.37085		-0.21692	38
	GILL ENERGY CENTER 138KV	84.99999	-0.208		RIVERTON 161KV			-0.21626	
WERE						72			38
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.208		'RIVERTON 69KV'	42.58215	0.0071	-0.2156	38
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.208		'SOUTH HARPER 161KV'	315	0.00747	-0.21597	38
WERE	'GILL ENERGY CENTER 138KV'	84.99999		5 EMDE	'STATE LINE 161KV'	503	0.00732	-0.21582	38
WERE	'GILL ENERGY CENTER 69KV'	118			'ARIES 161KV'	300		-0.2179	38
WERE	'GILL ENERGY CENTER 69KV'	118	-0.2110	3 EMDE	'ASBURY 161KV'	191		-0.22028	38
WERE	'GILL ENERGY CENTER 69KV'	118	-0.2110	3 KACP	'BULL CREEK 161KV'	308	0.00849	-0.21952	38
WERE	'GILL ENERGY CENTER 69KV'	118	-0.2110	3 KACP	CITY OF HIGGINSVILLE 69KV	35	0.00549	-0.21652	38
WERE	'GILL ENERGY CENTER 69KV'	118	-0.2110	3 MIPU	'GREENWOOD 161KV'	232	0.00677	-0.2178	38
WERE	'GILL ENERGY CENTER 69KV'	118	-0.2110	3 KACP	'HAWTHORN 161KV'	769	0.00559	-0.21662	38
WERE	'GILL ENERGY CENTER 69KV'	118			'LARUSSEL 161KV'	106.5474		-0.21777	38
WERE	'GILL ENERGY CENTER 69KV'	118			MARSHALL 161KV	100.5474		-0.21553	38
WERE	GILL ENERGY CENTER 69KV	118			MONTROSE 161KV	351.749		-0.21555	38
WERE	GILL ENERGY CENTER 69KV	118			NEARMAN 161KV	77		-0.21679	38
WERE	'GILL ENERGY CENTER 69KV'	118			'NEARMAN 20KV'	220	0.00576	-0.21679	38
WERE	'GILL ENERGY CENTER 69KV'	118			'OZARK BEACH 161KV'	16		-0.21543	38 38
WERE	'GILL ENERGY CENTER 69KV'	118			'PAOLA COMBUSTION TURBINES 161KV'	75.37085	0.00842	-0.21945	38
WERE	'GILL ENERGY CENTER 69KV'	118			'QUINDARO 161KV'	130.1932	0.00578	-0.21681	38
WERE	'GILL ENERGY CENTER 69KV'	118			'QUINDARO 69KV'	140		-0.21683	38
WERE	'GILL ENERGY CENTER 69KV'	118	-0.2110	3 EMDE	'RIVERTON 161KV'	72	0.00776	-0.21879	38
WERE	'GILL ENERGY CENTER 69KV'	118	-0.2110	3 EMDE	'RIVERTON 69KV'	42.58215	0.0071	-0.21813	38
WERE	'GILL ENERGY CENTER 69KV'	118		3 MIPU	'SIBLEY 161KV'	229.0368	0.00568	-0.21671	38
WERE	'GILL ENERGY CENTER 69KV'	118	-0.2110	3 MIPU	SIBLEY 69KV	45.99999		-0.21667	38
WERE	'GILL ENERGY CENTER 69KV'	118			SOUTH HARPER 161KV	315		-0.2185	38
WERE	GILL ENERGY CENTER 69KV	118			STATE LINE 161KV	503		-0.21835	38
WERE	GILL ENERGY CENTER 138KV	84.99999		5 MIPU	'ARIES 161KV'	300		-0.21635	30
WERE	GILL ENERGY CENTER 138KV	84.99999		5 KACP	CITY OF HIGGINSVILLE 69KV	35		-0.21399	39
WERE	'GILL ENERGY CENTER 138KV'	84.99999		5 MIPU	'GREENWOOD 161KV'	232		-0.21527	39
WERE	'GILL ENERGY CENTER 138KV'	84.99999		5 KACP	'HAWTHORN 161KV'	769		-0.21409	39
WERE	'GILL ENERGY CENTER 138KV'	84.99999		5 KACP	'IATAN 345KV'	396		-0.21111	39
WERE	'GILL ENERGY CENTER 138KV'	84.99999		5 MIPU	'LAKE ROAD 161KV'	35		-0.21164	39
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.208	5 MIPU	'LAKE ROAD 34KV'	92	0.00314	-0.21164	39
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.208	5 EMDE	'LARUSSEL 161KV'	106.5474	0.00674	-0.21524	39
WERE	'GILL ENERGY CENTER 138KV'	84,99999	-0.208	5 KACP	'MARSHALL 161KV'	15	0.0045	-0.213	39
WERE	'GILL ENERGY CENTER 138KV'	84,99999		5 KACP	'MONTROSE 161KV'	351,749		-0.21485	39
WERE	'GILL ENERGY CENTER 138KV'	84,99999	-0.208		'NEARMAN 161KV'	77		-0.21426	39
WERE	'GILL ENERGY CENTER 138KV'	84.99999		5 KACY	'NEARMAN 20KV'	220		-0.21426	39
WERE	'GILL ENERGY CENTER 138KV'	84.99999		5 EMDE	OZARK BEACH 161KV	16		-0.2129	39
WERE	GILL ENERGY CENTER 138KV	84.99999		5 KACY	QUINDARO 161KV	130.1932	0.00578	-0.2129	
									39
WERE	'GILL ENERGY CENTER 138KV'	84.99999		5 KACY	'QUINDARO 69KV'	140	0.0058	-0.2143	39
WERE	'GILL ENERGY CENTER 138KV'	84.99999		5 MIPU	SIBLEY 161KV	229.0368	0.00568	-0.21418	39
WERE	'GILL ENERGY CENTER 138KV'	84.99999		5 MIPU	'SIBLEY 69KV'	45.99999	0.00564	-0.21414	39
WERE	'GILL ENERGY CENTER 69KV'	118		3 AEPW	'FLINT CREEK 161KV'	420		-0.21158	39
WERE	'GILL ENERGY CENTER 69KV'	118			'IATAN 345KV'	396	0.00261	-0.21364	39
WERE	'GILL ENERGY CENTER 69KV'	118	-0.2110	3 MIPU	'LAKE ROAD 161KV'	35	0.00314	-0.21417	39
WERE	'GILL ENERGY CENTER 69KV'	118	-0.2110	3 MIPU	'LAKE ROAD 34KV'	92	0.00314	-0.21417	39
WERE	'GILL ENERGY CENTER 69KV'	118	-0.2110	3 AEPW	'NORTHEASTERN STATION 345KV'	645		-0.21204	39
WERE	'GETTY 69KV'	35			'LACYGNE UNIT 345KV'	958	0.018	-0.20551	40
WERE	'GILL ENERGY CENTER 138KV'	84.99999		5 OKGE	AES 161KV	320	-0.00346	-0.20504	40
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.208	5 AEPW	FITZHUGH 161KV	30.99999	-0.00273	-0.20577	40
WERE	GILL ENERGY CENTER 138KV	84.99999		5 AEPW	'FLINT CREEK 161KV'	420	0.000273	-0.20905	40
WERE	GILL ENERGY CENTER 138KV	84.99999		5 WERE	'LAWRENCE ENERGY CENTER 230KV'	235.2602	-0.00316	-0.20905	40
				5 AEPW					40
WERE	GILL ENERGY CENTER 138KV	84.99999			'NORTHEASTERN STATION 345KV'	645	0.00101	-0.20951	
WERE	GILL ENERGY CENTER 138KV	84.99999		5 AEPW	'OEC 345KV'	419		-0.20491	40
WERE	'GILL ENERGY CENTER 69KV'	118		3 OKGE	'AES 161KV'	320		-0.20757	40
WERE	'GILL ENERGY CENTER 69KV'	118		3 AEPW	'ARSENAL HILL 69KV'	15		-0.206	40
WERE	'GILL ENERGY CENTER 69KV'	118		3 WERE	CITY OF IOLA 69KV	24.267	-0.00501	-0.20602	40
WERE	'GILL ENERGY CENTER 69KV'	118		3 AEPW	'COGENTRIX 345KV'	200	-0.00534	-0.20569	40
WERE	'GILL ENERGY CENTER 69KV'	118	-0.2110	3 AEPW	'EASTMAN 138KV'	355	-0.00557	-0.20546	40
WERE	'GILL ENERGY CENTER 69KV'	118		3 AEPW	'FITZHUGH 161KV'	30.99999	-0.00273	-0.2083	40
WERE	'GILL ENERGY CENTER 69KV'	118		3 WERE	JEFFREY ENERGY CENTER 230KV	470		-0.20584	40
WERE	'GILL ENERGY CENTER 69KV'	118		3 WERE	JEFFREY ENERGY CENTER 345KV	940		-0.20616	40
WERE	'GILL ENERGY CENTER 69KV'	110		3 AEPW	KNOXLEE 138KV	252.8508	-0.00552	-0.20551	40
WERE	GILL ENERGY CENTER 69KV	118		3 WERE	'LAWRENCE ENERGY CENTER 230KV'	235.2602		-0.20331	40
		118		3 AEPW		235.2602		-0.20787	40
WERE	GILL ENERGY CENTER 69KV				LEBROCK 345KV				
WERE	GILL ENERGY CENTER 69KV	118		3 AEPW	'LIEBERMAN 138KV'	91	-0.00513	-0.2059	40
WERE	'GILL ENERGY CENTER 69KV'	118		3 OKGE	'MUSKOGEE 345KV'	1516		-0.20601	40
WERE	'GILL ENERGY CENTER 69KV'	118		3 AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00429	-0.20674	40
WERE	'GILL ENERGY CENTER 69KV'	118		3 AEPW	'OEC 345KV'	419		-0.20744	40
WERE	'GILL ENERGY CENTER 69KV'	118	-0.2110	3 AEPW	'PIRKEY GENERATION 138KV'	475	-0.00554	-0.20549	40
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Upgrade:	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER	Displacement							
Limiting Facility:	ROSE HILL (ROSEHL3X) 345/138/13.8KV TRANSFORMER								
Direction:	From->To								
Line Outage:	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER	CKT 1							
Flowgate:	ROSEHL3X2741ROSESEHL1X7412207SP								
Date Redispatch Needed:	6/1/07 - 10/1/07								
Season Flowgate Identified:	2007 Summer Peak								
ž		Aggregate Relief							
Reservation	Relief Amount	Amount							
11619	97 8.6	8.6							
		Maximum		Sink Control		Maximum			Aggregate Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
	CITY OF AUGUSTA 69KV								
WERE	CITY OF AUGUSTA 69KV	10.141			'CLR_1 .575 34KV' 'ELK RIVER 345KV'	17.0034	0.09048		
WERE	CITY OF AUGUSTA 69KV	10.141		WERE	CLR 1 .575 345KV	150	0.09048		
WERE	CITY OF WINFIELD 69KV	12.038		EMDE	ELK RIVER 345KV	17.0034	0.09048		
WERE	GILL ENERGY CENTER 69KV	12.038			CLR_1 .575 345KV	17.0034	0.09048		
WERE	GILL ENERGY CENTER 69KV	118			ELK RIVER 345KV	17.0034	0.09048		28
WERE	CITY OF AUGUSTA 69KV	118			CITY OF BURLINGTON 69KV	34,753	0.09048		
WERE	CITY OF AUGUSTA 69KV	10.141			COFFEY COUNTY NO. 2 SHARPE 69KV	34.753	0.04502		
WERE	GILL ENERGY CENTER 138KV	10.141 84.99999		WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.97	0.04502		
WERE	GILL ENERGY CENTER 138KV	84.99999		EMDE	'ELK RIVER 345KV'	17.0034	0.09048		
WERE	GETTY 69KV	64.99999		WERE	CLR 1 .575 345KV	17.0034	0.09048		
WERE	GETTY 69KV	35		EMDE	ELK RIVER 345KV	17.0034	0.09048		
WERE	CITY OF WINFIELD 69KV	12.038		WERE	CITY OF BURLINGTON 69KV	34,753	0.09048		
WERE	CITY OF WINFIELD 69KV	12.038		WERE	CITY OF BURLINGTON 69KV COFFEY COUNTY NO. 2 SHARPE 69KV	34.753	0.04502		
WERE	GILL ENERGY CENTER 69KV	12.038			COFFEY COUNTY NO. 2 SHARPE 69KV	19.97 34.753	0.04502		
WERE	GILL ENERGY CENTER 69KV				COFFEY COUNTY NO. 2 SHARPE 69KV	34.753	0.04502		
WERE	GILL ENERGY CENTER 138KV	118		WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	34,753	0.04502		
WERE	GILL ENERGY CENTER 138KV	84.99999		WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	34.753	0.04502		
WERE	HARPER 138KV	84.999999			COFFEY COUNTY NO. 2 SHARPE 69KV	19.97	0.04502		
WEPL	HARPER 138KV	17.21			'ELK RIVER 345KV'	17.0034	0.09048		
WERE	'GETTY 69KV'	35		WERE	CITY OF BURLINGTON 69KV	34,753	0.09048		
WERE	GETTY 69KV	35		WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	34.753	0.04502		
WERE	'GILL ENERGY CENTER 69KV'	118			LACYGNE UNIT 345KV	958	0.04502	-0.23262	
WERE	GILL ENERGY CENTER 69KV GILL ENERGY CENTER 138KV	118 84.99999			LACYGNE UNIT 345KV LACYGNE UNIT 345KV	958	0.01801	-0.22914	37
WERE	GILL ENERGY CENTER 138KV	84.99999		EMDE	ASBURY 161KV	958	0.01801		
WERE	GILL ENERGY CENTER 138KV	84.99999			BULL CREEK 161KV	191	0.00926		
WERE	GILL ENERGY CENTER 138KV GILL ENERGY CENTER 138KV	84.99999			PAOLA COMBUSTION TURBINES 161KV	75.37085	0.00849		
WERE	'GILL ENERGY CENTER 69KV' 'GILL ENERGY CENTER 69KV'	118			'ARIES 161KV' 'ASBURY 161KV'	300	0.00687	-0.218	
WERE	GILL ENERGY GENTER 69KV	118	-0.21113	EMDE	ASBURY 161KV	191	0.00926	-0.22039	39

WERE WERE WERE WERE WERE WERE	'GILL ENERGY CENTER 69KV' GILL ENERGY CENTER 69KV' GILL ENERGY CENTER 69KV' 'GILL ENERGY CENTER 69KV'	118 -0.21113 KACP 118 -0.21113 MIPU 118 -0.21113 EMDE 118 -0.21113 KACP	BULL CREEK 161KV' 'GREENWOOD 161KV' 'LARUSSEL 161KV'	232 106.5474	0.00849 -0.21962 0.00678 -0.21791 0.00674 -0.21787	
WERE WERE WERE	'GILL ENERGY CENTER 69KV'					
WERE		118 -0.21113 KACP				:
WERE			'MONTROSE 161KV'	351.749		:
	'GILL ENERGY CENTER 69KV'	118 -0.21113 KACP	'PAOLA COMBUSTION TURBINES 161KV'	75.37085	0.00843 -0.21956	
	'GILL ENERGY CENTER 69KV'	118 -0.21113 EMDE	'RIVERTON 161KV'	72	0.00776 -0.21889	
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 EMDE	'RIVERTON 69KV'	42.58215	0.00711 -0.21824	
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 MIPU	'SOUTH HARPER 161KV'	315	0.00747 -0.2186	
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 EMDE	'STATE LINE 161KV'	503	0.00732 -0.21845	:
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 MIPU	'ARIES 161KV'	300	0.00687 -0.21547	
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 KACP 84.99999 -0.2086 MIPU	CITY OF HIGGINSVILLE 69KV GREENWOOD 161KV	35	0.0055 -0.2141	
WERE	GILL ENERGY CENTER 138KV		'HAWTHORN 161KV'	232	0.00678 -0.21538	
WERE	GILL ENERGY CENTER 138KV GILL ENERGY CENTER 138KV	84.99999 -0.2086 KACP 84.99999 -0.2086 MIPU	LAKE ROAD 161KV	769	0.00559 -0.21419 0.00314 -0.21174	
WERE	GILL ENERGY CENTER 138KV	84.99999 -0.2066 MIPU	LAKE ROAD 181KV	30	0.00314 -0.21174	
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 EMDE	LARUSSEL 161KV	106.5474	0.00674 -0.21534	
WERE	GILL ENERGY CENTER 138KV	84.99999 -0.2086 KACP	MARSHALL 161KV	100.3474	0.00451 -0.21311	
WERE	GILL ENERGY CENTER 138KV	84.99999 -0.2086 KACP	MONTROSE 161KV	351.749	0.00635 -0.21495	
WERE	GILL ENERGY CENTER 138KV	84.99999 -0.2086 KACY	NEARMAN 161KV	551.145	0.00576 -0.21436	
WERE	GILL ENERGY CENTER 138KV	84.99999 -0.2086 KACY	'NEARMAN 20KV'	220	0.00576 -0.21436	
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 EMDE	OZARK BEACH 161KV	16	0.0044 -0.213	
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 KACY	QUINDARO 161KV	130,1932	0.00578 -0.21438	
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 KACY	QUINDARO 69KV	140	0.0058 -0.2144	
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 EMDE	'RIVERTON 161KV'	72	0.00776 -0.21636	
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 EMDE	'RIVERTON 69KV'	42.58215	0.00711 -0.21571	
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 MIPU	'SIBLEY 161KV'	229.0368	0.00568 -0.21428	
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 MIPU	'SIBLEY 69KV'	45.99999	0.00564 -0.21424	
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 MIPU	'SOUTH HARPER 161KV'	315	0.00747 -0.21607	
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 EMDE	'STATE LINE 161KV'	503	0.00732 -0.21592	
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 KACP	CITY OF HIGGINSVILLE 69KV	35	0.0055 -0.21663	
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 AEPW	'FLINT CREEK 161KV'	420	0.00055 -0.21168	
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 KACP	'HAWTHORN 161KV'	769	0.00559 -0.21672	
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 KACP	'IATAN 345KV'	396	0.00261 -0.21374	
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 MIPU	'LAKE ROAD 161KV'	35	0.00314 -0.21427	
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 MIPU	'LAKE ROAD 34KV'	92	0.00314 -0.21427	
WERE	GILL ENERGY CENTER 69KV	118 -0.21113 KACP	'MARSHALL 161KV'	15	0.00451 -0.21564	
WERE	GILL ENERGY CENTER 69KV	118 -0.21113 KACY	'NEARMAN 161KV'	77	0.00576 -0.21689	
WERE	GILL ENERGY CENTER 69KV GILL ENERGY CENTER 69KV	118 -0.21113 KACY	'NEARMAN 20KV' 'NORTHEASTERN STATION 345KV'	220	0.00576 -0.21689	
WERE	GILL ENERGY CENTER 69KV	118 -0.21113 AEPW 118 -0.21113 EMDE	OZARK BEACH 161KV	645	0.00101 -0.21214 0.0044 -0.21553	
WERE	GILL ENERGY CENTER 69KV	118 -0.21113 EMDE	QUINDARO 161KV	130.1932	0.00578 -0.21691	
WERE	GILL ENERGY CENTER 69KV	118 -0.21113 KACT	QUINDARO 69KV	130.1932	0.00578 -0.21693	
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 MPU	SIBLEY 161KV	229.0368	0.00568 -0.21681	
WERE	GILL ENERGY CENTER 69KV	118 -0.21113 MIPU	SIBLEY 69KV	45.99999	0.00564 -0.21677	
WERE	GILL ENERGY CENTER 138KV	84.99999 -0.2086 AEPW	FLINT CREEK 161KV	420	0.00055 -0.20915	
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 KACP	'IATAN 345KV'	396	0.00261 -0.21121	
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 AEPW	'NORTHEASTERN STATION 345KV'	645	0.00101 -0.20961	
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 OKGE	AES 161KV	320	-0.00346 -0.20767	
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 AEPW	'FITZHUGH 161KV'	30,99999	-0.00273 -0.2084	
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 WERE	'LAWRENCE ENERGY CENTER 230KV'	235.2602	-0.00316 -0.20797	
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00429 -0.20684	
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 AEPW	'OEC 345KV'	419	-0.00359 -0.20754	
WERE	'GETTY 69KV'	35 -0.1876 KACP	'LACYGNE UNIT 345KV'	958	0.01801 -0.20561	
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 OKGE	'AES 161KV'	320	-0.00346 -0.20514	
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 AEPW	'ARSENAL HILL 69KV'	15	-0.00503 -0.20357	
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 WERE	'CITY OF IOLA 69KV'	24.267	-0.00502 -0.20358	
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 AEPW	'COGENTRIX 345KV'	200	-0.00534 -0.20326	
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 AEPW	'EASTMAN 138KV'	355	-0.00557 -0.20303	
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 AEPW	'FITZHUGH 161KV'	30.99999	-0.00273 -0.20587	
VERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.0052 -0.2034	
NERE	GILL ENERGY CENTER 138KV	84.99999 -0.2086 WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00487 -0.20373	
VERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 AEPW	KNOXLEE 138KV	252.8508	-0.00552 -0.20308	
NERE	GILL ENERGY CENTER 138KV	84.99999 -0.2086 WERE	'LAWRENCE ENERGY CENTER 230KV'	235.2602	-0.00316 -0.20544	
WERE	GILL ENERGY CENTER 138KV GILL ENERGY CENTER 138KV	84.99999 -0.2086 AEPW 84.99999 -0.2086 AEPW	LEBROCK 345KV' LIEBERMAN 138KV'	515	-0.00556 -0.20304 -0.00513 -0.20347	
	GILL ENERGY CENTER 138KV	84.99999 -0.2086 AEPW 84.99999 -0.2086 OKGE	MUSKOGEE 345KV	91	-0.00513 -0.20347 -0.00502 -0.20358	
WERE	GILL ENERGY CENTER 138KV GILL ENERGY CENTER 138KV	84.99999 -0.2086 OKGE 84.99999 -0.2086 AEPW	NORTHEASTERN STATION 138KV	1516	-0.00502 -0.20358 -0.00429 -0.20431	
WERE	GILL ENERGY CENTER 138KV	84.99999 -0.2086 AEPW 84.99999 -0.2086 AEPW	OEC 345KV	419	-0.00429 -0.20431	
WERE	GILL ENERGY CENTER 138KV	84.99999 -0.2086 AEPW 84.99999 -0.2086 AEPW	PIRKEY GENERATION 138KV	419	-0.00359 -0.20501	
WERE	GILL ENERGY CENTER 138KV	84.99999 -0.2060 AEPW	RIVERSIDE STATION 138KV	646	-0.00534 -0.20306	
WERE	GILL ENERGY CENTER 138KV	84.99999 -0.2060 AEPW	TULSA POWER STATION 138KV	236		
	Maximum Increment were determine from the Souce and Sin			230	-0.00311 -0.20349	

Upgrade:	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER I	Displacement
Limiting Facility:	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER (	CKT 1
Direction:	From->To	
Line Outage:	ROSE HILL (ROSEHL3X) 345/138/13.8KV TRANSFORMER (	CKT 1
Flowgate:	ROSEHL1X2741ROSESEHL3X7412208SP	
Date Redispatch Needed:	6/1/08 - 10/1/08	
Season Flowgate Identified:	2008 Summer Peak	
		Aggregate Relief
Reservation	Relief Amount	Amount
1161997	8.3	18.8
4404500	10.5	

1161506	10.5	18.8							
				Sink					Aggregate
		Maximum		Control		Maximum			Redispatch
		Increment(MW)		Area	Sink				Amount (MW)
	'CITY OF MULVANE 69KV'	7.502			'CLR_1 .575 34KV'	17.0034	0.09044		
	'CITY OF MULVANE 69KV'	7.502	-0.28341		'ELK RIVER 345KV'	150	0.09044	-0.37385	
	'CITY OF AUGUSTA 69KV'	10.141	-0.24556		'CLR_1 .575 34KV'	17.0034	0.09044	-0.336	
	'CITY OF AUGUSTA 69KV'	10.141	-0.24556		'ELK RIVER 345KV'	150	0.09044	-0.336	
	'CITY OF WINFIELD 69KV'	12.038	-0.21371		'CLR_1 .575 34KV'	17.0034	0.09044		62
	'CITY OF WINFIELD 69KV'	12.038	-0.21371		'ELK RIVER 345KV'	150	0.09044		
	'GILL ENERGY CENTER 138KV'	84.99999	-0.2085		'CLR_1 .575 34KV'	17.0034	0.09044		63
	'GILL ENERGY CENTER 138KV'	84.99999	-0.2085		'ELK RIVER 345KV'	150	0.09044	-0.29894	63
	'GILL ENERGY CENTER 69KV'	118	-0.21103		'CLR_1 .575 34KV'	17.0034	0.09044	-0.30147	62
	'GILL ENERGY CENTER 69KV'	118	-0.21103		'ELK RIVER 345KV'	150	0.09044	-0.30147	62
	'CITY OF AUGUSTA 69KV'	10.141	-0.24556	WERE	'CITY OF BURLINGTON 69KV'	34.753	0.045		
	'CITY OF AUGUSTA 69KV'	10.141	-0.24556		'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.045		65
WERE	'GETTY 69KV'	35	-0.18751	WERE	'CLR_1 .575 34KV'	17.0034	0.09044	-0.27795	68
	'GETTY 69KV'	35	-0.18751		'ELK RIVER 345KV'	150	0.09044	-0.27795	68
	'CITY OF WINFIELD 69KV'	12.038	-0.21371		'CITY OF BURLINGTON 69KV'	34.753	0.045		73
WERE	'CITY OF WINFIELD 69KV'	12.038	-0.21371	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.045	-0.25871	73
	'GILL ENERGY CENTER 69KV'	118	-0.21103		'CITY OF BURLINGTON 69KV'	34.753	0.045		73
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21103	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.045	-0.25603	73
	'GILL ENERGY CENTER 138KV'	84.99999	-0.2085	WERE	'CITY OF BURLINGTON 69KV'	34.753	0.045	-0.2535	
	'GILL ENERGY CENTER 138KV'	84.99999	-0.2085		'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.045		
WEPL	'HARPER 138KV'	17.21	-0.15495	WERE	'CLR_1 .575 34KV'	17.0034	0.09044	-0.24539	77
WEPL	'HARPER 138KV'	17.21	-0.15495	EMDE	'ELK RIVER 345KV'	150	0.09044	-0.24539	77
WERE	'CITY OF WINFIELD 69KV'	12.038	-0.21371	KACP	'LACYGNE UNIT 345KV'	958	0.018	-0.23171	81
WERE	'GETTY 69KV'	35	-0.18751	WERE	'CITY OF BURLINGTON 69KV'	34.753	0.045	-0.23251	81
	'GETTY 69KV'	35	-0.18751		'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.045		81
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21103	KACP	'LACYGNE UNIT 345KV'	958	0.018	-0.22903	82
	'GILL ENERGY CENTER 138KV'	84.99999	-0.2085		'LACYGNE UNIT 345KV'	958	0.018		83
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.2085	EMDE	'ASBURY 161KV'	191	0.00925	-0.21775	86
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.2085	KACP	'BULL CREEK 161KV'	308	0.00849	-0.21699	87
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.2085	KACP	'PAOLA COMBUSTION TURBINES 161KV'	75.37085	0.00842	-0.21692	87

WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2085 EMDE	'RIVERTON 161KV'	72 0.00776 -0.	21626 87
WERE	GILL ENERGY CENTER 138KV	84.99999 -0.2065 EMDE	RIVERTON 16TKV		0.2156 87
	GILL ENERGY CENTER 138KV	84.99999 -0.2065 EMDE			
WERE			'SOUTH HARPER 161KV'		
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2085 EMDE	STATE LINE 161KV		21582 87
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21103 MIPU	'ARIES 161KV'		).2179 86
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21103 EMDE	'ASBURY 161KV'	191 0.00925 -0.	22028 85
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21103 KACP	'BULL CREEK 161KV'	308 0.00849 -0.	21952 86
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21103 KACP	CITY OF HIGGINSVILLE 69KV	35 0.00549 -0.	21652 87
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21103 MIPU	'GREENWOOD 161KV'		).2178 86
WERE	GILL ENERGY CENTER 69KV	118 -0.21103 KACP	'HAWTHORN 161KV'		21662 87
WERE	GILL ENERGY CENTER 69KV	118 -0.21103 EMDE	'LARUSSEL 161KV'		21777 86
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21103 KACP	'MARSHALL 161KV'		21553 87
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21103 KACP	'MONTROSE 161KV'		21738 86
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21103 KACY	'NEARMAN 161KV'		21679 87
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21103 KACY	'NEARMAN 20KV'	220 0.00576 -0.	21679 87
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21103 EMDE	'OZARK BEACH 161KV'	16 0.0044 -0.	21543 87
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21103 KACP	'PAOLA COMBUSTION TURBINES 161KV'		21945 86
WERE	GILL ENERGY CENTER 69KV	118 -0.21103 KACY	QUINDARO 161KV		21681 87
	GILL ENERGY CENTER 69KV				
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21103 KACY	'QUINDARO 69KV'		21683 87
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21103 EMDE	'RIVERTON 161KV'		21879 86
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21103 EMDE	'RIVERTON 69KV'	42.58215 0.0071 -0.	21813 86
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21103 MIPU	'SIBLEY 161KV'		21671 87
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21103 MIPU	SIBLEY 69KV		21667 87
WERE	GILL ENERGY CENTER 69KV	118 -0.21103 MIPU	SOUTH HARPER 161KV		0.2185 86
WERE	GILL ENERGY CENTER 69KV	118 -0.21103 MIPO	STATE LINE 161KV		21835 86
WERE	GILL ENERGY CENTER 138KV	84.99999 -0.2085 MIPU	'ARIES 161KV'		21537 87
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2085 KACP	'CITY OF HIGGINSVILLE 69KV'		21399 88
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2085 MIPU	'GREENWOOD 161KV'		21527 87
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2085 KACP	'HAWTHORN 161KV'	769 0.00559 -0.	21409 88
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2085 KACP	'IATAN 345KV'	396 0.00261 -0.	21111 89
WERE	GILL ENERGY CENTER 138KV	84.99999 -0.2085 MIPU	'LAKE ROAD 161KV'		21164 89
WERE	GILL ENERGY CENTER 138KV	84.99999 -0.2085 MIPU	'LAKE ROAD 34KV'		21164 89
			LAKE ROAD 34KV		
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2085 EMDE	'LARUSSEL 161KV'		21524 87
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2085 KACP	'MARSHALL 161KV'		-0.213 88
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2085 KACP	'MONTROSE 161KV'		21485 88
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2085 KACY	'NEARMAN 161KV'	77 0.00576 -0.	21426 88
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2085 KACY	'NEARMAN 20KV'	220 0.00576 -0.	21426 88
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2085 EMDE	'OZARK BEACH 161KV'		0.2129 88
WERE	GILL ENERGY CENTER 138KV	84.99999 -0.2085 KACY	'QUINDARO 161KV'		21428 88
WERE	GILL ENERGY CENTER 138KV	84.99999 -0.2085 KACY	QUINDARO 69KV		0.2143 88
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2085 MIPU	'SIBLEY 161KV'		21418 88
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2085 MIPU	'SIBLEY 69KV'		21414 88
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21103 AEPW	'FLINT CREEK 161KV'	420 0.00055 -0.	21158 89
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21103 KACP	'IATAN 345KV'	396 0.00261 -0.	21364 88
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21103 MIPU	'LAKE ROAD 161KV'		21417 88
WERE	GILL ENERGY CENTER 69KV	118 -0.21103 MIPU	'LAKE ROAD 34KV'		21417 88
WERE		118 -0.21103 MIPO	NORTHEASTERN STATION 345KV		21204 89
	'GILL ENERGY CENTER 69KV'				
WERE	'GETTY 69KV'	35 -0.18751 KACP	'LACYGNE UNIT 345KV'		20551 91
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2085 OKGE	'AES 161KV'		20504 92
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2085 AEPW	'FITZHUGH 161KV'	30.99999 -0.00273 -0.	20577 91
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2085 AEPW	'FLINT CREEK 161KV'		20905 90
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2085 WERE	'LAWRENCE ENERGY CENTER 230KV'		20534 92
WERE	GILL ENERGY CENTER 138KV	84.99999 -0.2085 AEPW	'NORTHEASTERN STATION 345KV'		20951 90
WERE	GILL ENERGY CENTER 138KV	84.99999 -0.2065 AEPW	OEC 345KV		20951 90
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21103 OKGE	'AES 161KV'		20757 91
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21103 AEPW	'ARSENAL HILL 69KV'		-0.206 91
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21103 WERE	'CITY OF IOLA 69KV'		20602 91
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21103 AEPW	'COGENTRIX 345KV'	200 -0.00534 -0.	20569 91
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21103 AEPW	'EASTMAN 138KV'		20546 92
WERE	GILL ENERGY CENTER 69KV	118 -0.21103 AEPW	'FITZHUGH 161KV'		0.2083 90
WERE	GILL ENERGY CENTER 69KV	118 -0.21103 WERE	JEFFREY ENERGY CENTER 230KV		20584 91
WERE	GILL ENERGY CENTER 69KV	118 -0.21103 WERE	JEFFREY ENERGY CENTER 345KV		20564 91
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21103 AEPW	'KNOXLEE 138KV'		20551 91
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21103 WERE	'LAWRENCE ENERGY CENTER 230KV'		20787 90
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21103 AEPW	'LEBROCK 345KV'		20548 91
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21103 AEPW	'LIEBERMAN 138KV'	91 -0.00513 -1	0.2059 91
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21103 OKGE	'MUSKOGEE 345KV'		20601 91
WERE	GILL ENERGY CENTER 69KV	118 -0.21103 AEPW	'NORTHEASTERN STATION 138KV'		20674 91
	GILL ENERGY CENTER 69KV	118 -0.21103 AEPW	OEC 345KV		20074 91
	IGILL ENERGI GENTER 69KV				
WERE	ICHLENEDCY CENTED COV/				
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21103 AEPW	'PIRKEY GENERATION 138KV'	475 -0.00554 -0.	20549 91
WERE	GILL ENERGY CENTER 69KV' at and Maximum Increment were determine from the Souce and			4/5 -0.00554 -0.	20549 91
WERE	nt and Maximum Increment were determine from the Souce and			4/5 -0.00554 -0.	20549 91

Upgrade: Limiting Facility:	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER I ROSE HILL (ROSEHL3X) 345/138/13.8KV TRANSFORMER (				
Limiting Facility: Direction:		JALI			
Direction: Line Outage:	From->To				
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER (	JKI1			
Flowgate:	ROSEHL3X2741ROSESEHL1X7412208SP				
Date Redispatch Needed:	6/1/08 - 10/1/08				
Season Flowgate Identified:	2008 Summer Peak				
		Aggregate Relief			
Reservation	Relief Amount	Amount			
1161997	8.6	19.1			
1161506	10.5	19.1			
				Sink	
		Maximum		Control	
Source Control Area	Source	Increment(MW)	GSF	Area	Sin
WERE	'CITY OF AUGUSTA 69KV'	10.141	-0.24567		'CL
WERE	'CITY OF AUGUSTA 69KV'	10.141			'EL
WERE	'CITY OF WINFIELD 69KV'	12.038			'CL
WERE	'CITY OF WINFIELD 69KV'	12.038	-0.2138	EMDE	'EL
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21113	WERE	'CL
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21113	EMDE	'EL
WERE	'CITY OF AUGUSTA 69KV'	10.141	-0.24567	WERE	'CI'
WERE	'CITY OF AUGUSTA 69KV'	10.141	-0.24567	WERE	'CC
WERE	'GILL ENERGY CENTER 138KV'	84,99999	-0.2086	WERE	'CL
WERE	'GILL ENERGY CENTER 138KV'	84,99999	-0.2086	EMDE	'EL
WERE	'GETTY 69KV'	35	-0.1876	WERE	'CL
WERE	'GETTY 69KV'	35	-0.1876		'EL
WERE	CITY OF WINFIELD 69KV	12.038	-0.2138		'CI'
WERE	CITY OF WINFIELD 69KV'	12.038	-0.2138		'CC
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21113		'CI'
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21113		'CC
WERE	'GILL ENERGY CENTER 138KV'	84,99999	-0.2086		'CI'
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.2086		'CC
WEPL	'HARPER 138KV'	17.21	-0.15502		'CL
WEPI	'HARPER 138KV'	17.21	-0.15502		'EL
WERE	'GETTY 69KV'	35	-0.1876		'CI'
WERE	'GETTY 69KV'	35	-0.1876		'CC
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21113		'LA
WERE	GILL ENERGY CENTER 138KV	84.99999	-0.2086		LA LA
WERE	GILL ENERGY CENTER 138KV	84.99999	-0.2086		'AS
WERE	GILL ENERGY CENTER 138KV	84.99999			'BL
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.2086		'PA
WERE	'GILL ENERGY CENTER 69KV'	118			'AR
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21113		'AS
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21113	KACP	'BL

10.5	19.1							
			Sink					Aggregate
	Maximum		Control		Maximum			Redispatch
		GSF		Sink		GSF	Factor	Amount (MW)
	10.141	-0.24567		'CLR_1 .575 34KV'	17.0034	0.09048	-0.33615	
	10.141	-0.24567		'ELK RIVER 345KV'	150	0.09048		
	12.038	-0.2138		'CLR_1 .575 34KV'	17.0034	0.09048	-0.30428	63
	12.038	-0.2138		'ELK RIVER 345KV'	150	0.09048	-0.30428	63
	118	-0.21113		'CLR_1 .575 34KV'	17.0034	0.09048	-0.30161	63
	118	-0.21113		'ELK RIVER 345KV'	150	0.09048	-0.30161	63
	10.141	-0.24567		'CITY OF BURLINGTON 69KV'	34.753	0.04502	-0.29069	
	10.141	-0.24567	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.04502	-0.29069	66
	84.99999	-0.2086	WERE	'CLR_1 .575 34KV'	17.0034	0.09048	-0.29908	64
	84.99999	-0.2086	EMDE	'ELK RIVER 345KV'	150	0.09048	-0.29908	
	35	-0.1876	WERE	'CLR_1 .575 34KV'	17.0034	0.09048	-0.27808	69
	35	-0.1876	EMDE	'ELK RIVER 345KV'	150	0.09048	-0.27808	69
	12.038	-0.2138	WERE	'CITY OF BURLINGTON 69KV'	34.753	0.04502	-0.25882	74
	12.038	-0.2138	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.04502	-0.25882	74
	118	-0.21113	WERE	'CITY OF BURLINGTON 69KV'	34.753	0.04502	-0.25615	75
	118	-0.21113	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.04502	-0.25615	75
	84.99999	-0.2086	WERE	'CITY OF BURLINGTON 69KV'	34.753	0.04502	-0.25362	75
	84.99999	-0.2086	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.04502	-0.25362	75
	17.21	-0.15502	WERE	'CLR_1 .575 34KV'	17.0034	0.09048	-0.2455	78
	17.21	-0.15502	EMDE	'ELK RIVER 345KV'	150	0.09048	-0.2455	78
	35	-0.1876	WERE	'CITY OF BURLINGTON 69KV'	34.753	0.04502	-0.23262	82
	35	-0.1876		'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.04502	-0.23262	82
	118	-0.21113	KACP	'LACYGNE UNIT 345KV'	958	0.01801	-0.22914	83
	84.99999	-0.2086	KACP	'LACYGNE UNIT 345KV'	958	0.01801	-0.22661	84
	84.99999	-0.2086	EMDE	ASBURY 161KV	191	0.00926	-0.21786	88
	84.99999	-0.2086	KACP	'BULL CREEK 161KV'	308	0.00849	-0.21709	88
	84.99999	-0.2086	KACP	'PAOLA COMBUSTION TURBINES 161KV'	75.37085	0.00843	-0.21703	88
	118	-0.21113	MIPU	'ARIES 161KV'	300	0.00687	-0.218	
	118	-0.21113	EMDE	'ASBURY 161KV'	191	0.00926	-0.22039	87
	118	-0.21113	KACP	'BULL CREEK 161KV'	308	0.00849	-0.21962	87

WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 MIPU	'GREENWOOD 161KV'	232 0.00678 -0.21791	88
WERE	GILL ENERGY CENTER 69KV	118 -0.21113 MIPO	LARUSSEL 161KV	106.5474 0.00674 -0.21787	88
WERE	GILL ENERGY CENTER 69KV	118 -0.21113 KACP	MONTROSE 161KV	351.749 0.00635 -0.21748	88
WERE	GILL ENERGY CENTER 69KV	118 -0.21113 KACP		75.37085 0.00843 -0.21748	87
			PAOLA COMBUSTION TURBINES 161KV		
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 EMDE	'RIVERTON 161KV'	72 0.00776 -0.21889	87
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 EMDE	'RIVERTON 69KV'	42.58215 0.00711 -0.21824	88
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 MIPU	'SOUTH HARPER 161KV'	315 0.00747 -0.2186	87
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 EMDE	'STATE LINE 161KV'	503 0.00732 -0.21845	87
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 MIPU	'ARIES 161KV'	300 0.00687 -0.21547	89
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 KACP	'CITY OF HIGGINSVILLE 69KV'	35 0.0055 -0.2141	89
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 MIPU	'GREENWOOD 161KV'	232 0.00678 -0.21538	89
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 KACP	'HAWTHORN 161KV'	769 0.00559 -0.21419	89
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 MIPU	'LAKE ROAD 161KV'	35 0.00314 -0.21174	90
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 MIPU	'LAKE ROAD 34KV'	92 0.00314 -0.21174	90
WERE	GILL ENERGY CENTER 138KV	84.99999 -0.2086 EMDE	LARUSSEL 161KV	106.5474 0.00674 -0.21534	89
WERE	GILL ENERGY CENTER 138KV	84.99999 -0.2086 KACP	'MARSHALL 161KV'	15 0.00451 -0.21311	90
WERE	GILL ENERGY CENTER 138KV	84.99999 -0.2086 KACP	MONTROSE 161KV	351.749 0.00635 -0.21495	89
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 KACY	'NEARMAN 161KV'	77 0.00576 -0.21436	89
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 KACY	'NEARMAN 20KV'	220 0.00576 -0.21436	89
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 EMDE	'OZARK BEACH 161KV'	16 0.0044 -0.213	90
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 KACY	'QUINDARO 161KV'	130.1932 0.00578 -0.21438	89
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 KACY	'QUINDARO 69KV'	140 0.0058 -0.2144	89
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 EMDE	'RIVERTON 161KV'	72 0.00776 -0.21636	88
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 EMDE	'RIVERTON 69KV'	42.58215 0.00711 -0.21571	89
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 MIPU	SIBLEY 161KV	229.0368 0.00568 -0.21428	89
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 MIPU	SIBLEY 69KV	45.99999 0.00564 -0.21424	89
WERE	GILL ENERGY CENTER 138KV	84.99999 -0.2086 MIPU	SOUTH HARPER 161KV	315 0.00747 -0.21607	88
WERE	GILL ENERGY CENTER 138KV	84.99999 -0.2086 MIPO 84.99999 -0.2086 EMDE	STATE LINE 161KV	503 0.00732 -0.21592	88
WERE	GILL ENERGY CENTER 138KV GILL ENERGY CENTER 69KV		CITY OF HIGGINSVILLE 69KV		88
	GILL ENERGY CENTER 69KV	118 -0.21113 KACP	CITY OF HIGGINSVILLE 69KV		
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 AEPW	'FLINT CREEK 161KV'	420 0.00055 -0.21168	90
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 KACP	'HAWTHORN 161KV'	769 0.00559 -0.21672	88
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 KACP	'IATAN 345KV'	396 0.00261 -0.21374	89
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 MIPU	'LAKE ROAD 161KV'	35 0.00314 -0.21427	89
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 MIPU	'LAKE ROAD 34KV'	92 0.00314 -0.21427	89
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 KACP	'MARSHALL 161KV'	15 0.00451 -0.21564	89
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 KACY	'NEARMAN 161KV'	77 0.00576 -0.21689	88
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 KACY	'NEARMAN 20KV'	220 0.00576 -0.21689	88
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 AEPW	'NORTHEASTERN STATION 345KV'	645 0.00101 -0.21214	90
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 EMDE	'OZARK BEACH 161KV'	16 0.0044 -0.21553	89
WERE	GILL ENERGY CENTER 69KV	118 -0.21113 KACY	QUINDARO 161KV	130.1932 0.00578 -0.21691	88
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 KACY	QUINDARO 69KV	140 0.0058 -0.21693	88
WERE	GILL ENERGY CENTER 69KV	118 -0.21113 MIPU	SIBLEY 161KV	229.0368 0.00568 -0.21681	88
WERE	GILL ENERGY CENTER 69KV		'SIBLEY 69KV'	45.99999 0.00564 -0.21677	88
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 AEPW	'FLINT CREEK 161KV'	420 0.00055 -0.20915	91
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 KACP	'IATAN 345KV'	396 0.00261 -0.21121	90
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 AEPW	'NORTHEASTERN STATION 345KV'	645 0.00101 -0.20961	91
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 OKGE	'AES 161KV'	320 -0.00346 -0.20767	92
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 AEPW	'FITZHUGH 161KV'	30.99999 -0.00273 -0.2084	92
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 WERE	'LAWRENCE ENERGY CENTER 230KV'	235.2602 -0.00316 -0.20797	92
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 AEPW	'NORTHEASTERN STATION 138KV'	500 -0.00429 -0.20684	92
WERE	'GILL ENERGY CENTER 69KV'	118 -0.21113 AEPW	'OEC 345KV'	419 -0.00359 -0.20754	92
WERE	'GETTY 69KV'	35 -0.1876 KACP	'LACYGNE UNIT 345KV'	958 0.01801 -0.20561	93
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 OKGE	'AES 161KV'	320 -0.00346 -0.20514	93
WERE	GILL ENERGY CENTER 138KV	84.99999 -0.2086 AEPW	'ARSENAL HILL 69KV'	15 -0.00503 -0.20357	94
WERE	GILL ENERGY CENTER 138KV	84.99999 -0.2086 WERE	CITY OF IOLA 69KV	24.267 -0.00502 -0.20358	94
WERE	GILL ENERGY CENTER 138KV	84.99999 -0.2086 AEPW	COGENTRIX 345KV	200 -0.00534 -0.20326	94
WERE	GILL ENERGY CENTER 138KV	84.99999 -0.2086 AEPW	'EASTMAN 138KV'	355 -0.00557 -0.20303	94
WERE	GILL ENERGY CENTER 138KV	84.99999 -0.2086 AEPW	'FITZHUGH 161KV' 'JEFFREY ENERGY CENTER 230KV'	30.99999 -0.00273 -0.20587 470 -0.0052 -0.2034	93
WERE	GILL ENERGY CENTER 138KV	84.99999 -0.2086 WERE			94
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 WERE	JEFFREY ENERGY CENTER 345KV	940 -0.00487 -0.20373	94
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 AEPW	'KNOXLEE 138KV'	252.8508 -0.00552 -0.20308	94
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 WERE	'LAWRENCE ENERGY CENTER 230KV'	235.2602 -0.00316 -0.20544	93
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 AEPW	'LEBROCK 345KV'	515 -0.00556 -0.20304	94
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 AEPW	'LIEBERMAN 138KV'	91 -0.00513 -0.20347	94
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 OKGE	'MUSKOGEE 345KV'	1516 -0.00502 -0.20358	94
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 AEPW	'NORTHEASTERN STATION 138KV'	500 -0.00429 -0.20431	93
WERE	'GILL ENERGY CENTER 138KV'	84.99999 -0.2086 AEPW	'OEC 345KV'	419 -0.00359 -0.20501	93
WERE	GILL ENERGY CENTER 138KV	84.99999 -0.2086 AEPW	PIRKEY GENERATION 138KV	475 -0.00554 -0.20306	94
WERE	GILL ENERGY CENTER 138KV	84.99999 -0.2086 AEPW	'RIVERSIDE STATION 138KV'	646 -0.00534 -0.20326	94
WERE	GILL ENERGY CENTER 138KV	84.99999 -0.2086 AEPW	TULSA POWER STATION 138KV	236 -0.00511 -0.20320	94
				200 -0.00011 -0.20048	54
	ent and Maximum Increment were determine from the Souce and Sink C	perating Points in the study models where	imiting facility was identified.		
Factor = Source GS					
Redispatch Amount	t = Relief Amount / Factor				

Upgrade:	Seven Rivers to Pecos to Potash Junction 230kV								
Limiting Facility:	CARLSBAD PLANT - POTASH JUNCTION INTERCHANGE 1	15KV CKT 1							
Direction:	To->From								
Line Outage:	CUNNINGHAM STATION - EDDY COUNTY INTERCHANGE	230KV CKT 1							
Flowgate:	52310522521522095218512207SP								
Date Redispatch Needed:	6/1/07 - 10/1/07								
Season Flowgate Identified:	2007 Summer Peak								
		Aggregate Relief							
Reservation	Relief Amount	Amount							
1162675									
				Sink					Agg
		Maximum		Control		Maximum			Re
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Am
SPS	'CARLSBAD 69KV'	18			CUNNINGHAM 115KV	181	0.10065		
SPS	'CARLSBAD 69KV'	18			CUNNINGHAM 230KV	306	0.10399		
SPS	'CARLSBAD 69KV'	18			'MADOX 115KV'	183	0.09782		
SPS	'CARLSBAD 69KV'	18			'MUSTANG 115KV'	300			
SPS	'CARLSBAD 69KV'	18	-0.26531	I SPS	'MUSTANG 230KV'	310	0.0485	-0.31381	
SPS	'CARLSBAD 69KV'	18			'MUSTG5 118.0 230KV'	50	0.0485		
SPS	'CARLSBAD 69KV'	18			'A. M. MULLERGREN GENERATOR 115KV'	63			
SPS	'CARLSBAD 69KV'	18			'ARSENAL HILL 69KV'	15			
SPS	'CARLSBAD 69KV'	18	-0.26531	SUNC	'CITY OF GOODLAND 115KV'	6.8	-0.00135	-0.26396	i l
SPS	'CARLSBAD 69KV'	18	-0.26531	SUNC	CITY OF HUGOTON 69KV	6.2	-0.00163	-0.26368	
SPS	'CARLSBAD 69KV'	18	-0.26531	WEPL	CLIFTON 115KV	42.82602	-0.00037	-0.26494	
SPS	'CARLSBAD 69KV'	18			COGENTRIX 345KV	200			
SPS	'CARLSBAD 69KV'	18	-0.26531	AEPW	COMANCHE 138KV	160	0.00075	-0.26606	i T
SPS	'CARLSBAD 69KV'	18	-0.26531	AEPW	COMANCHE 69KV'	63			
SPS	'CARLSBAD 69KV'	18			'EASTMAN 138KV'	355			
SPS	'CARLSBAD 69KV'	18	-0.26531	AEPW	'FITZHUGH 161KV'	30.99999	0.00011	-0.26542	1
SPS	'CARLSBAD 69KV'	18			'FLINT CREEK 161KV'	420			
SPS	'CARLSBAD 69KV'	18			GARDEN CITY 115KV	57.12115			
SPS	'CARLSBAD 69KV'	18	-0.26531	WEPL	'GRAY COUNTY WIND FARM 115KV'	73	-0.00139	-0.26392	1
SPS	'CARLSBAD 69KV'	18			'HOLCOMB 115KV'	274.1765			
SPS	'CARLSBAD 69KV'	18			JONES 230KV	486			
SPS	'CARLSBAD 69KV'	18			JUDSON LARGE 115KV	108.9999			
SPS	'CARLSBAD 69KV'	18			'KNOXLEE 138KV'	252.8508			
SPS	CARLSBAD 69KV	18			'L&D13 69KV'	11			
SPS	'CARLSBAD 69KV'	18			LEBROCK 345KV	515			
SPS	CARLSBAD 69KV	18			LIEBERMAN 138KV	91			
SPS	'CARLSBAD 69KV'	18			LP-BRND2 69KV	20			
SPS	CARLSBAD 69KV	18			LP-HOLL2 69KV	77.91309			
SPS	CARLSBAD 69KV	18			LP-MACK2 69KV	60			
SPS	CARLSBAD 69KV	18			NARROWS 69KV	22			
SPS	CARLSBAD 69KV	18			NORTHEASTERN STATION 138KV	500		-0.26544	
SPS	CARLSBAD 69KV	18			NORTHEASTERN STATION 136KV	645			
0.0	ONNEODAD JSKV	10	20.2003		NORTHEROTERIN STATION 343RV	643	0.00012	*0.20343	4

Aggregate Redispatch Amount (MW)

10

13 13

					10 E 0 - 1710 I			
SPS	'CARLSBAD 69KV'		-0.26531		OEC 345KV	419	0.00016 -0.26547	13
SPS	'CARLSBAD 69KV'	18	-0.26531		'PIRKEY GENERATION 138KV'	475	0.00016 -0.26547	13
SPS	'CARLSBAD 69KV'	18	-0.26531		'RIVERSIDE STATION 138KV'	646	0.00017 -0.26548	13
SPS	'CARLSBAD 69KV'	18	-0.26531		'SOUTHWESTERN STATION 138KV'	327	0.00034 -0.26565	13
SPS	'CARLSBAD 69KV'	18		AEPW	'TULSA POWER STATION 138KV'	236	0.00017 -0.26548	13
SPS	'CARLSBAD 69KV'	18		AEPW	WELEETKA 138KV	70	0.00023 -0.26554	13
SPS	'CARLSBAD 69KV'	18	-0.26531	AEPW	'WELSH 345KV'	990	0.00018 -0.26549	13
SPS	'CARLSBAD 69KV'	18	-0.26531	AEPW	WILKES 138KV	354.0342	0.00017 -0.26548	13
SPS	'CARLSBAD 69KV'	18	-0.26531	AEPW	WILKES 345KV	311	0.00017 -0.26548	13
SPS	'CARLSBAD 69KV'	18	-0.26531	SPS	'BLACKHAWK 115KV'	220	-0.00367 -0.26164	14
SPS	'CARLSBAD 69KV'	18	-0.26531	SPS	'CZ 69KV'	39	-0.00335 -0.26196	14
SPS	'CARLSBAD 69KV'	18	-0.26531	SPS	'HARRINGTON 230KV'	1066	-0.0037 -0.26161	14
SPS	'CARLSBAD 69KV'	18	-0.26531	SPS	'HUBRCO2 69KV'	11	-0.00367 -0.26164	14
SPS	CARLSBAD 69KV	18		SPS	'MOORE COUNTY 115KV'	48	-0.00385 -0.26146	
SPS	'CARLSBAD 69KV'	18	-0.26531	SPS	NICHOLS 115KV	213	-0.00362 -0.26169	14
SPS	CARLSBAD 69KV	18		SPS	'NICHOLS 230KV'	244	-0.00366 -0.26165	14
SPS	CARLSBAD 69KV	18	-0.26531		PLANTX 115KV	253	-0.00587 -0.25944	14
SPS	CARLSBAD 69KV	18		SPS	PLANTX 230KV	189	-0.00909 -0.25622	14
SPS				SPS				14
	CARLSBAD 69KV	18			SIDRCH 69KV	20	-0.00367 -0.26164	
SPS	'CARLSBAD 69KV'	18	-0.26531	SPS	STEER WATER 115KV	0	-0.00349 -0.26182	14
SPS	CARLSBAD 69KV	18	-0.26531	SPS	TOLK 230KV'	1022.108	-0.01292 -0.25239	14
SPS	'CARLSBAD 69KV'	18		SPS	WILWIND 230KV	16	-0.00514 -0.26017	
SPS	'CARLSBAD 69KV'	18		SPS	'CAPROCK 115KV'	8	-0.02602 -0.23929	15
SPS	'CARLSBAD 69KV'	18		SPS	'SAN JUAN 230KV'	12	-0.06421 -0.2011	18
SPS	'TUCUMCARI 115KV'	15	-0.02602		CUNNINGHAM 230KV	306	0.10399 -0.13001	27
SPS	TUCUMCARI 115KV	15	-0.02602		CUNNINGHAM 115KV	181	0.10065 -0.12667	28
SPS	'TUCUMCARI 115KV'	15	-0.02602		'MADOX 115KV'	183	0.09782 -0.12384	29
SPS	'TOLK 230KV'	57.89178	-0.01292	SPS	CUNNINGHAM 230KV	306	0.10399 -0.11691	30
SPS	'TOLK 230KV'	57.89178	-0.01292	SPS	CUNNINGHAM 115KV	181	0.10065 -0.11357	31
SPS	'TOLK 230KV'	57.89178	-0.01292	SPS	'MADOX 115KV'	183	0.09782 -0.11074	32
SUNC	'GARDEN CITY 115KV'	126.8789	-0.00171	SPS	CUNNINGHAM 230KV	306	0.10399 -0.1057	33
SUNC	'GARDEN CITY 69KV'	13	-0.00171		CUNNINGHAM 230KV	306	0.10399 -0.1057	33
SUNC	HOLCOMB 115KV	19.82355		SPS	CUNNINGHAM 230KV	306	0.10399 -0.10572	33
SPS	'RIVERVIEW 69KV'	23		SPS	CUNNINGHAM 230KV	306	0.10399 -0.10766	33
AEPW	'AEP-CT0113.8 161KV'	85	0.0001		CUNNINGHAM 230KV	306	0.10399 -0.10389	34
AEPW	'AEP-CT0213.8 161KV'	85	0.0001	SPS	CUNNINGHAM 230KV	306	0.10399 -0.10389	34
AEPW	'AEP-CT0213.8 161KV'	85	0.0001	SPS	CUNNINGHAM 230KV	306	0.10399 -0.10389	34
AEPW		85		SPS				34
AEPW	'AEP-CT0413.8 161KV' 'AEP-CT0513.8 161KV'	85	0.0001	SPS	CUNNINGHAM 230KV'	306 306	0.10399 -0.10389 0.10399 -0.10389	34
AEPW	'AEP-CT0613.8 161KV'	85		SPS	CUNNINGHAM 230KV	306	0.10399 -0.10389	34
AEPW	'AH-CC_C118.0 138KV'	150	0.00015		CUNNINGHAM 230KV	306	0.10399 -0.10384	34
AEPW	'AH-CC_C218.0 138KV'	150	0.00015		'CUNNINGHAM 230KV'	306	0.10399 -0.10384	34
AEPW	'AH-CC_ST18.0 138KV'	250	0.00015		CUNNINGHAM 230KV	306	0.10399 -0.10384	34
AEPW	'ARSENAL HILL 69KV'	75	0.00015		'CUNNINGHAM 230KV'	306	0.10399 -0.10384	34
WEPL	'BELOIT 115KV'	16.6	-0.00046		CUNNINGHAM 230KV	306	0.10399 -0.10445	34
WEPL	'CIMARRON RIVER 115KV'	47	-0.00159		CUNNINGHAM 230KV	306	0.10399 -0.10558	34
WEPL	'CLIFTON 115KV'	22.17398	-0.00037	SPS	'CUNNINGHAM 230KV'	306	0.10399 -0.10436	34
AEPW	'COGENTRIX 345KV'	694	0.00018	SPS	CUNNINGHAM 230KV	306	0.10399 -0.10381	34
AEPW	'EASTMAN 138KV'	130.01	0.00016	SPS	CUNNINGHAM 230KV	306	0.10399 -0.10383	34
AEPW	'FITZHUGH 161KV'	95.00001	0.00011	SPS	CUNNINGHAM 230KV	306	0.10399 -0.10388	34
AEPW	'FULTON 115KV'	32.99999		SPS	CUNNINGHAM 230KV	306	0.10399 -0.10384	34
WEPL	'HARPER 138KV'	17.21	-0.00037		CUNNINGHAM 230KV	306	0.10399 -0.10436	
AEPW	'HEMPCOAL24.0 138KV'	608	0.00018		CUNNINGHAM 230KV	306	0.10399 -0.10381	34
AEPW	'KIOWA 345KV'	1348	0.00036		CUNNINGHAM 230KV	306	0.10399 -0.10363	34
AEPW	'KNOXLEE 138KV'	170.1492	0.00016		CUNNINGHAM 230KV	306	0.10399 -0.10383	34
AEPW	'L&D13 69KV'	170.1492	0.00010		CUNNINGHAM 230KV	306	0.10399 -0.10383	34
AEPW	LEBROCK 345KV	13	0.00012		CUNNINGHAM 230KV CUNNINGHAM 230KV	306	0.10399 -0.10387 0.10399 -0.10383	34
AEPW	'LIEBERMAN 138KV'	137	0.00015		CUNNINGHAM 230KV	306	0.10399 -0.10384	34
AEPW	'LONESTAR POWER PLANT 69KV'	50	0.00017		CUNNINGHAM 230KV	306	0.10399 -0.10382	34
AEPW	'MID-CONTINENT 138KV'	142.11	0.00012		CUNNINGHAM 230KV	306	0.10399 -0.10387	34
WEPL	'NORTH WEST GREAT BEND 115KV'	14.24	-0.00097		CUNNINGHAM 230KV	306	0.10399 -0.10496	34
AEPW	'OEC 345KV'	1728.03	0.00016		CUNNINGHAM 230KV	306	0.10399 -0.10383	34
AEPW	'PIRKEY GENERATION 138KV'	40	0.00016		CUNNINGHAM 230KV	306	0.10399 -0.10383	34
AEPW	'RIVERSIDE STATION 138KV'	76.00003	0.00017		CUNNINGHAM 230KV	306	0.10399 -0.10382	34
SPS	'RIVERVIEW 69KV'	23	-0.00367		CUNNINGHAM 115KV	181	0.10065 -0.10432	34
WEPL	'RUSSELL 115KV'	27.9	-0.00082	SPS	CUNNINGHAM 230KV	306	0.10399 -0.10481	34
AEPW	'RVRSIDEG13.8 138KV'	172	0.00017		CUNNINGHAM 230KV	306	0.10399 -0.10382	34
AEPW	SOUTHWESTERN STATION 138KV	432	0.00034		CUNNINGHAM 230KV	306	0.10399 -0.10365	34
	ximum Increment were determine from the Souce and Sink Ope							

Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified. Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

Upgrade: Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed: Season Flowgate Identified: Seven Rivers to Pecos to Potash Junction 230kV CARLSBAD PLANT - POTASH JUNCTION INTERCHANGE 115KV CKT 1 To->From CARLSBAD PLANT - PCA INTERCHANGE 115KV CKT 1 CARLSBAD PLANT - PCA INTERC 52310522521523105224012207SP 6/1/07 - 10/1/07 2007 Summer Peak Aggregate Relie Relief Amount Reservation Amount 1162675 0.2 Sink Control Aggregate Redispatch laximum Maximum Source Control Area SPS SPS SPS SPS SPS SPS SPS SPS 
 Control
 Control

 18
 -0.40502
 WEPL

 18
 -0.40502
 MEPU

 18
 -0.40502
 SPS

 18
 -0.40502
 SPS

 18
 -0.40502
 SPS

 18
 -0.40502
 SPS

 18
 -0.40502
 SUNC

 18
 -0.40502
 SUNC

 18
 -0.40502
 SUNC
 /) GSF Factor 63 -0.00076 -0.40426 15 0.00012 -0.40514 ncrement(MW) Sink A. M. MULLERGREN GENERATOR 115KV' ARSENAL HILL 69KV' BLACKHAWK 115KV' CAPROCK 115KV' Decrement(MW) Amount (MW) Source 'CARLSBAD 69KV CARLSBAD 69KV CARLSBAD 69KV CARLSBAD 69KV 220 -0.0029 -0.40212 8 -0.02154 -0.38348 CAPROCK 115KV' CITY OF GOODLAND 115KV' CITY OF HILL CITY 115KV' CITY OF HUGOTON 69KV' CITY OF LAKIN 115KV' CLIFTON 115KV' 6.8 -0.02134 6.8 -0.00107 3 -0.00078 CARLSBAD 69KV CARLSBAD 69KV -0.40395 
 18
 -0.40502
 SUNC

 18
 -0.40502
 AEPW

 18
 -0.40502
 AEPW

 18
 -0.40502
 AEPW

 18
 -0.40502
 SPS

 18
 -0.40502
 SPS

 18
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 AEPW

 18
 -0.40502
 SPS

 18
 -0.40502
 AEPW

 18
 -0.40502
 MEPL

 18
 -0.40502
 SUNC

 18
 -0.40502
 SUNC

 18
 -0.40502
 SUNC

 3
 -0.0078

 6.2
 -0.00129

 2.5
 -0.0134

 42.82602
 -0.0029

 200
 0.00044

 160
 0.00059

 63
 0.00059

 181
 0.1002

 306
 0.07066

 335
 0.00013

 30.99999
 0.00009
 -0.40424 -0.40373 -0.40368 -0.40473 -0.40516 -0.40554 -0.40554 -0.40552 -0.47568 -0.40237 -0.40515 -0.40511 SPS SPS SPS CARLSBAD 69KV CARLSBAD 69KV CARLSBAD 69KV CARLSBAD 69KV 
 CARLSBAD
 69KV'

 CARLSBAD
 69KV'
 CLIFTON 115KV COGENTRIX 345KV COMANCHE 138KV COMANCHE 69KV CUNNINGHAM 115KV CUNNINGHAM 135KV CUNNINGHAM 230KV CZ 69KV SPS SPS SPS SPS SPS SPS SPS SPS ZZ 69KV' EASTMAN 138KV' EASTMAIN 138KV FITZHUGH 161KV' FLINT CREEK 161KV' GARDEN CITY 115KV' GARY COUNTY WIND FARM 115KV' HARRINGTON 230KV' HOLCOMB 115KV' JUIBPCO2 66KV' -0.40511 -0.40511 -0.40367 -0.40392 -0.4021 30.99999 0.00009 420 0.0000 57.12115 -0.0013 73 -0.001 1066 -0.0029 SPS SPS SPS SPS 
 18
 -0.40502
 SF3

 18
 -0.40502
 SUNC

 18
 -0.40502
 SPS

 18
 -0.40502
 SUNC

 18
 -0.40502
 SPS

 18
 -0.40502
 SPS

 18
 -0.40502
 SPS

 18
 -0.40502
 WEPL
 274.1765 -0.00137 -0.40365 ARLSBAD 69K SPS SPS ARLSBAD 69K HUBRCO2 69KV 11 -0.0029 2.9 -0.0013 -0.40212 486 0.01086 108.9999 -0.00109 CARLSBAD 69K JONES 230K -0.41588 JUDSON LARGE 115KV ARLSBAD 69K -0.40393 
 18
 -0.40502
 WEPL

 18
 -0.40502
 AEPW

 18
 -0.40502
 SPS

 18
 -0.40502
 SPS

 18
 -0.40502
 SPS

 18
 -0.40502
 SPS

 108.9999
 -0.00109
 -0.4033

 252.8508
 0.00013
 -0.40515

 11
 0.00011
 -0.40515

 515
 0.00013
 -0.40515

 91
 0.00012
 -0.40514

 20
 0.01018
 -0.41543

 77.91309
 0.01043
 -0.41545

 60
 0.01028
 -0.41543
 SPS SPS SPS SPS SPS ARLSBAD 69K KNOXLEE 138KV KNOXLEE 138KV' 'L&D13 69KV' 'LEBROCK 345KV' 'LIEBERMAN 138KV' 'LP-BRND2 69KV' 'LP-HOLL2 69KV' 'LP-MACK2 69KV' CARLSBAD 69KV CARLSBAD 69KV CARLSBAD 69K\ CARLSBAD 69K\ CARLSBAD 69K SPS SPS

SPS	'CARLSBAD 69KV'	18	-0.40502 SPS	'MADOX 115KV'	183	0.09277 -0.49779
SPS	CARLSBAD 69KV	18	-0.40502 SPS	MOORE COUNTY 115KV	48	
SPS	CARLSBAD 69KV	18	-0.40502 SPS	MUSTANG 115KV	300	0.04775 -0.45277
SPS	CARLSBAD 69KV	18	-0.40502 SPS	'MUSTANG 230KV'	310	
SPS	CARLSBAD 69KV	18	-0.40502 SPS	'MUSTG5 118.0 230KV'	50	
SPS	CARLSBAD 69KV	18	-0.40502 AEPW	'NARROWS 69KV'	22	0.00016 -0.40518
SPS	CARLSBAD 69KV	18	-0.40502 SPS	NICHOLS 115KV	213	-0.00287 -0.40215
SPS	CARLSBAD 69KV	18	-0.40502 SPS	'NICHOLS 230KV'	244	-0.00289 -0.40213
SPS	CARLSBAD 69KV	18	-0.40502 AEPW	NORTHEASTERN STATION 138KV	500	0.00289 -0.40213
SPS	CARLSBAD 69KV	18	-0.40502 AEPW	NORTHEASTERN STATION 138KV	645	0.0001 -0.40512
		18	-0.40502 AEPW	OEC 345KV	419	
SPS SPS	'CARLSBAD 69KV' 'CARLSBAD 69KV'	18	-0.40502 AEPW	PIRKEY GENERATION 138KV	419	0.00013 -0.40515
	CARLSBAD 69KV	18	-0.40502 AEPW	PLANTX 115KV	253	-0.00456 -0.40046
SPS SPS	CARLSBAD 69KV	18	-0.40502 SPS	PLANTX 115KV PLANTX 230KV	253	-0.00436 -0.40046
SPS	CARLSBAD 69KV	18	-0.40502 SPS		646	0.00014 -0.40516
			-0.40502 AEPW	'RIVERSIDE STATION 138KV'		
SPS	CARLSBAD 69KV	18		SIDRCH 69KV	20	-0.0029 -0.40212 0.00027 -0.40529
SPS	'CARLSBAD 69KV'	18	-0.40502 AEPW	'SOUTHWESTERN STATION 138KV'		
SPS	'CARLSBAD 69KV'	18	-0.40502 SPS	'STEER WATER 115KV'	8	-0.00276 -0.40226
SPS	CARLSBAD 69KV	18	-0.40502 SPS	TOLK 230KV	1022.108	
SPS	'CARLSBAD 69KV'	18	-0.40502 AEPW	'TULSA POWER STATION 138KV'	236	0.00013 -0.40515
SPS	CARLSBAD 69KV	18	-0.40502 AEPW	WELEETKA 138KV	70	0.00018 -0.4052
SPS	'CARLSBAD 69KV'	18	-0.40502 AEPW	WELSH 345KV	990	0.00014 -0.40516
SPS	'CARLSBAD 69KV'	18	-0.40502 AEPW	WILKES 138KV'	354.0342	0.00013 -0.40515
SPS	'CARLSBAD 69KV'	18	-0.40502 AEPW	'WILKES 345KV'	311	
SPS	'CARLSBAD 69KV'	18	-0.40502 SPS	'WILWIND 230KV'	16	
SPS	'CARLSBAD 69KV'	18	-0.40502 SPS	'SAN JUAN 230KV'	12	-0.0545 -0.35052
SPS	'TUCUMCARI 115KV'	15	-0.02154 SPS	CUNNINGHAM 115KV	181	0.1002 -0.12174
AEPW	'AEP-CT0113.8 161KV'	85	0.00008 SPS	CUNNINGHAM 115KV	181	0.1002 -0.10012
AEPW	'AEP-CT0113.8 161KV'	85	0.00008 SPS	'MADOX 115KV'	183	0.09277 -0.09269
AEPW	'AEP-CT0213.8 161KV'	85	0.00008 SPS	CUNNINGHAM 115KV	181	0.1002 -0.10012
AEPW	'AEP-CT0213.8 161KV'	85	0.00008 SPS	'MADOX 115KV'	183	0.09277 -0.09269
AEPW	'AEP-CT0313.8 161KV'	85	0.00008 SPS	CUNNINGHAM 115KV	181	0.1002 -0.10012
AEPW	'AEP-CT0313.8 161KV'	85	0.00008 SPS	'MADOX 115KV'	183	0.09277 -0.09269
AEPW	'AEP-CT0413.8 161KV'	85	0.00008 SPS	CUNNINGHAM 115KV	181	0.1002 -0.10012
AEPW	'AEP-CT0413.8 161KV'	85	0.00008 SPS	'MADOX 115KV'	183	0.09277 -0.09269
AEPW	'AEP-CT0513.8 161KV'	85	0.00008 SPS	CUNNINGHAM 115KV	181	0.1002 -0.10012
AEPW	'AEP-CT0513.8 161KV'	85	0.00008 SPS	'MADOX 115KV'	183	0.09277 -0.09269
AEPW	'AEP-CT0613.8 161KV'	85	0.00008 SPS	CUNNINGHAM 115KV	181	0.1002 -0.10012
AEPW	'AEP-CT0613.8 161KV'	85	0.00008 SPS	'MADOX 115KV'	183	
AEPW	'AH-CC C118.0 138KV'	150	0.00012 SPS	CUNNINGHAM 115KV	181	0.1002 -0.10008
AEPW	'AH-CC_C118.0 138KV'	150	0.00012 SPS	'MADOX 115KV'	183	0.09277 -0.09265
AEPW	'AH-CC_C218.0 138KV'	150	0.00012 SPS	CUNNINGHAM 115KV	181	0.1002 -0.10008
AEPW	'AH-CC C218.0 138KV'	150	0.00012 SPS	'MADOX 115KV'	183	0.09277 -0.09265
AEPW	'AH-CC_ST18.0_138KV'	250	0.00012 SPS	CUNNINGHAM 115KV	181	0.1002 -0.10008
AEPW	'AH-CC_ST18.0 138KV'	250	0.00012 SPS	MADOX 115KV	183	0.09277 -0.09265
AEPW	ARSENAL HILL 69KV	75	0.00012 SPS	CUNNINGHAM 115KV	181	0.1002 -0.10008
AEPW	ARSENAL HILL 69KV	75	0.00012 SPS	'MADOX 115KV'	183	0.09277 -0.09265
NEPL NEPL	'BELOIT 115KV' 'BELOIT 115KV'	16.6 16.6	-0.00036 SPS -0.00036 SPS	CUNNINGHAM 115KV MADOX 115KV	181	0.1002 -0.10056 0.09277 -0.09313
WEPL	CIMARRON RIVER 115KV	16.6	-0.00036 SPS	CUNNINGHAM 115KV	183	0.1002 -0.10146
VEPL VEPL	CIMARRON RIVER 115KV CIMARRON RIVER 115KV	47	-0.00126 SPS	CUNNINGHAM 230KV MADOX 115KV	306	0.07066 -0.07192 0.09277 -0.09403
			-0.00126 SPS		183	
SUNC	CITY OF GOODLAND 115KV	7.1	-0.00107 SPS	CUNNINGHAM 115KV	181	0.1002 -0.10127
SUNC	CITY OF GOODLAND 115KV	7.1	-0.00107 SPS	'MADOX 115KV'	183	
SUNC	CITY OF HILL CITY 115KV	3.1	-0.00078 SPS	CUNNINGHAM 115KV	181	0.1002 -0.10098
SUNC	'CITY OF HILL CITY 115KV'	3.1	-0.00078 SPS	'MADOX 115KV'	183	0.09277 -0.09355
SUNC	CITY OF HUGOTON 69KV	10.87	-0.00129 SPS	'CUNNINGHAM 115KV'	181	0.1002 -0.10149
SUNC	CITY OF HUGOTON 69KV	10.87	-0.00129 SPS	CUNNINGHAM 230KV	306	0.07066 -0.07195
SUNC	CITY OF HUGOTON 69KV	10.87	-0.00129 SPS	'MADOX 115KV'	183	0.09277 -0.09406
SUNC	CITY OF LAKIN 115KV	1.75	-0.00134 SPS	CUNNINGHAM 115KV	181	0.1002 -0.10154
SUNC	CITY OF LAKIN 115KV	1.75	-0.00134 SPS	CUNNINGHAM 230KV	306	0.07066 -0.072
SUNC	CITY OF LAKIN 115KV	1.75	-0.00134 SPS	'MADOX 115KV'	183	0.09277 -0.09411
SUNC	'CITY OF NORTON 115KV'	10.56	-0.00081 SPS	CUNNINGHAM 115KV	181	0.1002 -0.10101
SUNC	CITY OF NORTON 115KV	10.56	-0.00081 SPS	'MADOX 115KV'	183	0.09277 -0.09358
SUNC	'CITY OF ST.FRANCIS 115KV'	4.3	-0.00104 SPS	CUNNINGHAM 115KV	181	0.1002 -0.10124
SUNC	'CITY OF ST.FRANCIS 115KV'	4.3	-0.00104 SPS	'MADOX 115KV'	183	0.09277 -0.09381
	'CLIFTON 115KV'	22.17398	-0.00029 SPS	CUNNINGHAM 115KV	181	0.1002 -0.10049
NEPL						

AEPW AEPW

AEPW

AEPW AEPW AEPW AEPW AEPW AEPW AEPW

Redispatch Amount = Relief Amount / Factor

Upgrade: Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed: Season Flowgate Identified: SOUTHWEST SHREVEPORT (SW SHV 1) 345/138/13.8KV TRANSFORMER CKT 1 Expedite SOUTHWEST SHREVEPORT (SW SHV 1) 345/138/13.8KV TRANSFORMER CKT 1 From->To SOUTHWEST SHREVEPORT (SW SHV 2) 345/138/13.8KV TRANSFORMER CKT 2 SUGTHWEST SHREVEPORT (SW S SWSHV12741SWSSHV27421408SP Starting 2008 6/1 - 10/1 Until EOC 2008 Summer Peak Aggregate Relief Reservation Relief Amount Amount 1158760 8.2 1158761 4. 8.2 Sink Control laximum Source Control Area AEPW AEPW AEPW AEPW 
 W)
 GSF
 Area

 150
 -0.3928
 CELE

 150
 -0.3928
 CELE

 250
 -0.3928
 CELE

 99
 -0.39134
 CELE
 Increment(MW) Source 'AH-CC\_C118.0 138KV' 'AH-CC\_C218.0 138KV' 'AH-CC\_ST18.0 138KV' 'ARSENAL HILL 69KV' AEPW AEPW 'AH-CC\_C118.0 138KV 'AH-CC\_C118.0 138KV 150 150 -0.3928 WERE -0.3928 CELE 
 AH-CC C118.0
 138KV

 AH-CC C118.0
 138KV
 150 150 150 150 150

'AH-CC\_C118.0 138KV

AH-CC\_C118.0 138K

'AH-CC\_C118.0 138KV 'AH-CC\_C118.0 138KV

AH-CC\_C118.0 138K

'AH-CC\_C118.0 138KV 'AH-CC\_C118.0 138KV

AH-CC\_C118.0 138K

AH-CC\_C118.0 138K

Maximum Maximum Decrement(MW) GSF Factor 338.6819 0.08637 -0.47917 338.6819 0.08637 -0.47917 338.6819 0.08637 -0.47917 338.6819 0.08637 -0.47771 338.6819 0.08637 -0.47771 0.08637 -0.47771 0.08637 -0.0224 -0.39046 325.8796 -0.00224 -0.39046 Sink DOLET HILLS 345KV ABILENE ENERGY CENTER 115KV ABILENE ENERGICE 'ACADIA 138KV' 'AEP-CT0113.8 161KV 'AEP-CT0213.8 161KV 'AEP-CT0313.8 161KV 
 325.8796
 -0.00234

 85
 -0.00202

 85
 -0.00202

 85
 -0.00202

 65
 -0.00202

 65
 -0.00202

 320
 -0.00113

 282.6765
 -0.00182

 29.82661
 -0.00156

 138.7476
 -0.00165

 220
 -0.00305

 24
 -0.00297

 AEP-CT03138
 161KV

 AEP-CT03138
 161KV

 AES
 161KV

 AAES
 161KV

 ANDARKO
 138KV

 BAYOU RAMOS
 138KV

 BAYOU RAMOS
 138KV

 BAYOU RAMOS
 138KV

 BAVER
 161KV

 BLACKHAWK
 115KV

 BOMER
 69KV

 CHANUTE
 69KV

 CITY OF AUGUSTA
 69KV

 CITY OF FURLINGTON
 69KV

 CITY OF FURLINGTON
 69KV

 CITY OF HOUMA SUB
 115KV
 150 150 150 150 150 150 220 -0.00305 24 -0.00297 135 -0.00183 276.6114 -0.00072 32 -0.00174 55.637 -0.002 24 -0.00217 34.061 -0.00197 23.374 -0.002 84 -0.00199 24.471 -0.00195 26.77 -0.00247 150

150

150

150

150

150

150

150 150

150 150

150 150

-0.3928 WERE

-0.3928 WERE -0.3928 WERE

-0.3928 WERE

-0.3928 WERE -0.3928 WERE -0.3928 SWPA -0.3928 WERE -0.3928 WERE -0.3928 WERE -0.3928 AEPW -0.3928 AEPW

-0.3928 LEPA

Aggregate Redispatch

-0.39046 -0.39078 -0.39078 -0.39078 -0.39078 -0.39167

-0.39167 -0.38899 -0.39098 -0.39124 -0.39114 -0.38975

-0.38973 -0.38983 -0.39097 -0.39208 -0.39106 -0.3908

-0.39063

-0.39083

-0.3917

-0.39085 -0.39033 -0.39187 -0.39072 -0.39072 -0.39083 -0.39019 -0.38897

24.471 -0.00195 26.77 -0.00247 38.90696 -0.00093 102 -0.00208 100 -0.00208 19.98 -0.00197 300 -0.00261 160 -0.00383

-0.39085

Amount (MW)

21

2'

21 21

SPP Aggregate Facility Study (SPP-2006-AG3-AFS-3) April 11, 2007 Page 104 of 113

CITY OF HOUMA SUB 115KV CITY OF IOLA 69KV

LLARENCE CANNON DAM 69KV' LLARENCE CANNON DAM 69KV' LLR\_1 .575 34KV' LLR\_2 .575 34KV' COFFEY COUNTY NO. 2 SHARPE 69KV' COFFEY COUNTY NO. 2 SHARPE 69KV'

CITY OF WINFIELD 69KV

COGENTRIX 345K

	'AH-CC_C118.0 138KV'	150	-0.3928 AEPW	COMANCHE 69KV	63	-0.00384 -0.38896
AEPW AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 SPS	CUNNINGHAM 115KV	181	-0.00321 -0.38959
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 SPS	CUNNINGHAM 230KV	306	-0.0032 -0.38959
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 SPS	CUNNINGHAM 230KV	306	-0.0032 -0.3896
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 CELE	D.G. HUNTER POWER STATION 138KV	90.8363	-0.0031 -0.3897
AEPW	AH-CC_C118.0 138KV	150		DENISON 138KV	59.00515	
			-0.3928 SWPA			-0.00496 -0.38784
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 EMDE	'ELK RIVER 345KV'	150	-0.00208 -0.39072
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 SWPA	'EUFAULA 138KV'	50.49099	-0.00225 -0.39055
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 SWPA	'EUFAULA 161KV'	69.10335	-0.00225 -0.39055
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 CELE	'EVANGELINE 138KV'	148.3381	-0.00181 -0.39099
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 CELE	'EVANGELINE 230KV'	184.0071	-0.00162 -0.39118
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 WERE	'EVANS ENERGY CENTER 138KV'	510	-0.00221 -0.39059
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 AEPW	'FITZHUGH 161KV'	101	-0.00079 -0.39201
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 AEPW	'FLINT CREEK 161KV'	428	-0.00205 -0.39075
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 WERE	'GILL ENERGY CENTER 138KV'	155	-0.0022 -0.3906
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 WERE	'GILL ENERGY CENTER 69KV'	45	-0.0022 -0.3906
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 GRDA	'GRDA1 161KV'	190	-0.00222 -0.39058
AEPW	'AH-CC C118.0 138KV'	150	-0.3928 GRDA	'GRDA1 345KV'	220	-0.00222 -0.39058
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 SWPA	'GREERS FERRY 161KV'	92.66582	0.00026 -0.39306
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 SPS	'HARRINGTON 230KV'	1066	-0.00304 -0.38976
AEPW	'AH-CC_C118.0_138KV'	150	-0.3928 OKGE	'HORSESHOE LAKE 138KV'	851.5	-0.00356 -0.38924
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 OKGE	HORSESHOE LAKE 69KV	16	-0.00356 -0.38924
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 SPS	HUBRCO2 69KV	10	-0.00356 -0.38924
AEPW	AH-CC_C118.0 138KV	150	-0.3928 SPS -0.3928 WFEC	HUGO 138KV	450	-0.00305 -0.38975 -0.0076 -0.3852
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 WERE	'HUTCHINSON ENERGY CENTER 115KV'	239.4126	-0.00185 -0.39095
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	-0.00185 -0.39095
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 SWPA	'INDEPENDENCE 161KV'	12.87025	0.00023 -0.39303
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 LEPA	'IRION SUB 230KV'	25	-0.00106 -0.39174
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 SWPA	'JAMES RIVER 161KV'	159	-0.00143 -0.39137
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 SWPA	'JAMES RIVER 69KV'	233.2277	-0.00143 -0.39137
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00173 -0.39107
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00173 -0.39107
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 SPS	JONES 230KV	486	-0.00326 -0.38954
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 SWPA	JONESBORO 161KV	43	0.00013 -0.39293
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 GRDA	'KERR 115KV'	13.5	-0.0022 -0.3906
AEPW	'AH-CC C118.0 138KV'	150	-0.3928 GRDA	'KERR 161KV'	13.5	-0.00221 -0.39059
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 SWPA	'KEYSTONE DAM 161KV'	149.0969	-0.00259 -0.39021
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 AEPW	'L&D13 69KV'	11	-0.00117 -0.39163
AEPW	'AH-CC_C118.0_138KV'	150	-0.3928 WERE	'LANG 7 345 345KV'	310	-0.00184 -0.39096
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 EMDE	'LARUSSEL 161KV'	116	-0.00168 -0.39112
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 WERE	'LAWRENCE ENERGY CENTER 230KV'	227,4069	-0.00100 -0.33112
AEPW	'AH-CC_C118.0_138KV'	150	-0.3928 SPS	'LP-BRND2 69KV'	227.4003	-0.00326 -0.38954
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 SPS	LP-MACK2 69KV	60	-0.00326 -0.38954
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 SPS	MADOX 115KV	183	-0.00326 -0.38954
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 SWPA	'MCCARTNEY 161KV'	100	-0.00139 -0.39141
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 OKGE	'MCCLAIN 138KV'	478	-0.00365 -0.38915
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 SPS	'MOORE COUNTY 115KV'	48	-0.00303 -0.38977
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 WFEC	'MORLND 138KV'	298.512	-0.00337 -0.38943
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 OKGE	'MUSKOGEE 161KV'	83.59766	-0.00224 -0.39056
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 OKGE	'MUSKOGEE 345KV'	1516	-0.00253 -0.39027
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 SPS	'MUSTANG 115KV'	300	-0.00321 -0.38959
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 OKGE	'MUSTANG 138KV'	365.5	-0.00358 -0.38922
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 SPS	'MUSTANG 230KV'	310	-0.00321 -0.38959
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 OKGE	'MUSTANG 69KV'	106	-0.00358 -0.38922
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 SPS	'MUSTG5 118.0 230KV'	50	-0.00321 -0.38959
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 CELE	'NATCHITOCHES 69KV'	17.79226	0.00137 -0.39417
AEPW	'AH-CC_C118.0_138KV'	150	-0.3928 SPS	'NICHOLS 115KV'	147	-0.00306 -0.38974
AEPW	'AH-CC_C118.0_138KV'	150	-0.3928 SPS	'NICHOLS 230KV'	147	-0.00304 -0.38976
AEPW	AH-CC_C118.0_138KV	150	-0.3928 AEPW	'NORTHEASTERN STATION 138KV'	472	-0.00238 -0.39042
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 AEPW	NORTHEASTERN STATION 138KV	645	-0.00237 -0.39042
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 AEPW	OEC 345KV	319	-0.00251 -0.39043
AFPW	'AH-CC_C118.0 138KV'	150	-0.3928 OKGE	OPEC 345KV OMPA-KAW 69KV	19.7	-0.00298 -0.38982
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 OKGE	'OMPA-PONCA CITY 69KV'	117.1303	-0.00298 -0.38982
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 OKGE	ONE OAK 345KV	75	-0.00347 -0.38933
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 SWPA	'OZARK 161KV'	149.0969	-0.00079 -0.39201
AEPW	'AH-CC_C118.0 138KV'	150	-0.3928 EMDE	'OZARK BEACH 161KV'	16	-0.00126 -0.39154
	'AH-CC_C118.0 138KV'	150	-0.3928 GRDA	'PENSACOLA 161KV'	33	-0.00212 -0.39068
AEPW	t and Maximum Increment were determine from the Souce and					

Jpgrade:	SOUTHWEST SHREVEPORT (SW SHV 2) 345/138/13.8KV 1			ite				
imiting Facility:	SOUTHWEST SHREVEPORT (SW SHV 2) 345/138/13.8KV 1	RANSFORMER C	KT 2					
Direction:	From->To							
ine Outage:	SOUTHWEST SHREVEPORT (SW SHV 1) 345/138/13.8KV 1	RANSFORMER C	KT 1					
lowgate:	SWSHV22742SWSSHV17411408SP							
Date Redispatch Needed:	Starting 2008 6/1 - 10/1 Until EOC							
Season Flowgate Identified:	2008 Summer Peak							
ž		Aggregate Relief	1					
Reservation	Relief Amount	Amount						
1158760	0.1	0.2	1					
1158761	0.1	0.2						
				Sink			1	T
		Maximum		Control		Maximum		
Source Control Area	Source		GSF	Area	Sink	Decrement(MW)	GSF	Factor
AEPW	'AH-CC_C118.0 138KV'	150			ABILENE ENERGY CENTER 115KV	40		
AEPW .	'AH-CC C118.0 138KV'	150	-0.38572		'ACADIA 138KV'	325.8796		
AEPW	'AH-CC_C118.0_138KV'	150			'AEP-CT0113.8 161KV'	323.0730		
AEPW	'AH-CC_C118.0_138KV'	150	-0.38572		'AEP-CT0213.8 161KV'	85		
AEPW	'AH-CC_C118.0_138KV'	150	-0.38572		'AEP-CT0313.8 161KV'	85		
AEPW	'AH-CC_C118.0_138KV'	150			AEP-CT0413.8 161KV	65		
AEPW	'AH-CC_C118.0_138KV'	150			AES 161KV	320		
AEPW AEPW	'AH-CC_C118.0_138KV'	150	-0.38572		ALS INTRO	282.6765		
AEPW	'AH-CC_C118.0 138KV'	150			ANADARKO ISAKV ASBURY 161KV	202.070		
AEPW AEPW								
	'AH-CC_C118.0 138KV'	150			'BAYOU RAMOS 138KV'	29.82661		
AEPW	'AH-CC_C118.0 138KV'	150			BEAVER 161KV	136.7476		
AEPW	'AH-CC_C118.0 138KV'	150			'BLACKHAWK 115KV'	220		
AEPW	'AH-CC_C118.0 138KV'	150	-0.38572		BOOMER 69KV	24		
AEPW	'AH-CC_C118.0 138KV'	150	-0.38572		'BPU - CITY OF MCPHERSON 115KV'	135		
AEPW	'AH-CC_C118.0 138KV'	150	-0.38572		'BROKEN BOW 138KV'	92.66582		
AEPW	'AH-CC_C118.0 138KV'	150			'BULL SHOALS 161KV'	276.6114		
AEPW	'AH-CC_C118.0 138KV'	150	-0.38572		'CAPROCK 115KV'	8		
AEPW .	'AH-CC_C118.0 138KV'	150			'CARTHAGE 69KV'	32		
AEPW	'AH-CC_C118.0 138KV'	150	-0.38572		'CHANUTE 69KV'	55.637		
AEPW	'AH-CC_C118.0 138KV'	150	-0.38572		CITY OF AUGUSTA 69KV	24		
AEPW	'AH-CC_C118.0 138KV'	150	-0.38572		'CITY OF BURLINGTON 69KV'	34.061		
AEPW	'AH-CC_C118.0 138KV'	150	-0.38572		'CITY OF ERIE 69KV'	23.374		-0.3837
AEPW	'AH-CC_C118.0 138KV'	150			'CITY OF FREDONIA 69KV'	3.596		
AEPW	'AH-CC_C118.0 138KV'	150			'CITY OF GIRARD 69KV'	4.592	-0.00186	-0.3838
AEPW	'AH-CC_C118.0 138KV'	150	-0.38572	LEPA	CITY OF HOUMA SUB 115KV	84	-0.00107	-0.3846
AEPW	'AH-CC_C118.0 138KV'	150	-0.38572	WERE	CITY OF IOLA 69KV	24.471	-0.00192	2 -0.383
AEPW	'AH-CC_C118.0 138KV'	150	-0.38572	WERE	'CITY OF MULVANE 69KV'	8.29	-0.00215	-0.3835
AEPW	'AH-CC_C118.0 138KV'	150	-0.38572	WERE	'CITY OF NEODESHA 69KV'	4.495	-0.00204	4 -0.3836
AEPW	'AH-CC_C118.0 138KV'	150	-0.38572	WERE	'CITY OF WINFIELD 69KV'	26.77	-0.00242	2 -0.383
AEPW	'AH-CC_C118.0 138KV'	150	-0.38572	SWPA	'CLARENCE CANNON DAM 69KV'	38.90696	-0.00091	-0.3848
AEPW .	'AH-CC_C118.0 138KV'	150			'CLR_1 .575 34KV'	102		
AEPW	'AH-CC_C118.0 138KV'	150			'CLR 2 .575 34KV'	100		
AEPW	'AH-CC_C118.0 138KV'	150			COFFEY COUNTY NO. 2 SHARPE 69KV	19.98		

Aggregate Redispatch Amount (MW)

AEPW AEPW AEPW AEPW AEPW AEPW AEPW	AH-CC_C118.0         138KV'           AH-CC_C118.0         138KV'           AH-CC_C118.0         138KV'           AH-CC_C118.0         138KV'           AH-CC_C118.0         138KV'	150 150 150	-0.38572 AEPW -0.38572 WERE -0.38572 AEPW	COGENTRIX 345KV' COLBY 115KV' COMANCHE 138KV'	300 3.141304 160	-0.00256 -0.38316 -0.00186 -0.38386 -0.00376 -0.38196
AEPW AEPW AEPW AEPW AEPW	'AH-CC_C118.0 138KV' 'AH-CC_C118.0 138KV'	150				
AEPW AEPW AEPW AEPW	'AH-CC_C118.0 138KV'		-0.38572 AEPW	COMANCHE 138KV/	160	0.00270 0.20400
AEPW AEPW AEPW						
AEPW AEPW AEPW		150	-0.38572 AEPW	COMANCHE 69KV	63	-0.00377 -0.38195
AEPW AEPW		150	-0.38572 SPS	CUNNINGHAM 115KV	181	-0.00315 -0.38257
AEPW						
	'AH-CC_C118.0 138KV'	150	-0.38572 SPS	CUNNINGHAM 230KV	306	-0.00315 -0.38257
	'AH-CC_C118.0 138KV'	150	-0.38572 SPS	'CZ 69KV'	39	-0.00304 -0.38268
AEPW	'AH-CC_C118.0 138KV'	150	-0.38572 CELE	D.G. HUNTER POWER STATION 138KV	90.8363	-0.00123 -0.38449
AEPW	'AH-CC_C118.0 138KV'	150	-0.38572 SWPA	DENISON 138KV	59.00515	-0.00487 -0.38085
AEPW	'AH-CC_C118.0 138KV'	150	-0.38572 CELE	DOLET HILLS 345KV	338.6819	0.08481 -0.47053
AEPW	'AH-CC_C118.0 138KV'	150	-0.38572 AEPW	'EASTMAN 138KV'		
					355	
AEPW	'AH-CC_C118.0 138KV'	150	-0.38572 EMDE	'ELK RIVER 345KV'	150	-0.00204 -0.38368
AEPW	'AH-CC_C118.0 138KV'	150	-0.38572 SWPA	'EUFAULA 138KV'	50.49099	-0.00221 -0.38351
AEPW	'AH-CC C118.0 138KV'	150	-0.38572 SWPA	'EUFAULA 161KV'	69.10335	-0.00221 -0.38351
AEPW	'AH-CC_C118.0 138KV'	150	-0.38572 CELE	'EVANGELINE 138KV'	148.3381	-0.00178 -0.38394
AEPW	AH-CC_C118.0_138KV	150	-0.38572 CELE	'EVANGELINE 230KV'	184.0071	-0.0016 -0.38412
AEPW	'AH-CC_C118.0 138KV'	150	-0.38572 WERE	'EVANS ENERGY CENTER 138KV'	510	-0.00217 -0.38355
AEPW	'AH-CC_C118.0 138KV'	150	-0.38572 AEPW	'FITZHUGH 161KV'	101	-0.00078 -0.38494
AEPW .	'AH-CC_C118.0 138KV'	150	-0.38572 AEPW	'FLINT CREEK 161KV'	428	-0.00201 -0.38371
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 LEPA	'FROGSTATION 69KV'	3	-0.002 -0.38372
AEPW .	AH-CC_C118.0_138KV	150	-0.38572 WERE	'GILL ENERGY CENTER 138KV'	155	-0.00216 -0.38356
AEPW	'AH-CC_C118.0 138KV'	150	-0.38572 WERE	'GILL ENERGY CENTER 69KV'	45	
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 GRDA	'GRDA1 161KV'	190	-0.00218 -0.38354
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 GRDA	'GRDA1 345KV'	220	-0.00218 -0.38354
AEPW	'AH-CC_C118.0 138KV'	150	-0.38572 SWPA	'GREERS FERRY 161KV'	92.66582	0.00026 -0.38598
EPW	AH-CC_C118.0_138KV	150	-0.38572 SPS	'HARRINGTON 230KV'	1066	-0.00299 -0.38273
AEPW	'AH-CC_C118.0 138KV'	150	-0.38572 OKGE	HORSESHOE LAKE 138KV	851.5	-0.00299 -0.38273
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 OKGE	'HORSESHOE LAKE 69KV'	16	-0.0035 -0.38222
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 SPS	'HUBRCO2 69KV'	11	
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 WFEC	'HUGO 138KV'	450	-0.00747 -0.37825
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 WERE	'HUTCHINSON ENERGY CENTER 115KV'	239.4126	-0.00182 -0.3839
EPW	AH-CC_C118.0 138KV	150	-0.38572 WERE	HUTCHINSON ENERGY CENTER 69KV	40	
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 SWPA	'INDEPENDENCE 161KV'	12.87025	0.00022 -0.38594
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 LEPA	'IRION SUB 230KV'	25	-0.00104 -0.38468
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 SWPA	JAMES RIVER 161KV	159	-0.0014 -0.38432
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 SWPA	'JAMES RIVER 69KV'	233.2277	-0.0014 -0.38432
AEPW .	AH-CC_C118.0 138KV	150	-0.38572 WERE	JEFFREY ENERGY CENTER 230KV	470	-0.0017 -0.38402
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.0017 -0.38402
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 SPS	'JONES 230KV'	486	-0.0032 -0.38252
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 SWPA	'JONESBORO 161KV'	43	0.00013 -0.38585
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 SWPA	'KENNETT 69KV'	7.5	0 -0.38572
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 GRDA	'KERR 115KV'	13.5	-0.00216 -0.38356
EPW	AH-CC_C118.0_138KV	150	-0.38572 GRDA	KERR 161KV	13.5	
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 SWPA	'KEYSTONE DAM 161KV'	149.0969	
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 AEPW	'KNOXLEE 138KV'	103	-0.10677 -0.27895
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 AEPW	'L&D13 69KV'	11	-0.00115 -0.38457
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 WERE	'LANG 7 345 345KV'	310	-0.00181 -0.38391
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 EMDE	LARUSSEL 161KV	116	-0.00165 -0.38407
				LAWRENCE ENERGY CENTER 230KV		
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 WERE		227.4069	-0.00167 -0.38405
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 AEPW	'LEBROCK 345KV'	465	
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 SPS	'LP-BRND2 69KV'	20	-0.0032 -0.38252
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 SPS	'LP-MACK2 69KV'	60	
EPW	AH-CC_C118.0_138KV	150	-0.38572 SPS	MADOX 115KV	183	
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 SWPA	MADOX TISKV MALDEN 69KV	103	
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 SWPA	'MCCARTNEY 161KV'	100	-0.00136 -0.38436
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 OKGE	'MCCLAIN 138KV'	478	-0.00358 -0.38214
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 SPS	'MOORE COUNTY 115KV'	48	-0.00298 -0.38274
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 WFEC	'MORLND 138KV'	298.512	-0.00331 -0.38241
EPW	AH-CC_C118.0 138KV	150	-0.38572 OKGE	MUSKOGEE 161KV	83.59766	-0.0022 -0.38352
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 OKGE	'MUSKOGEE 345KV'	1516	-0.00248 -0.38324
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 SPS	'MUSTANG 115KV'	300	-0.00315 -0.38257
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 OKGE	'MUSTANG 138KV'	365.5	-0.00352 -0.3822
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 SPS	'MUSTANG 230KV'	310	-0.00315 -0.38257
EPW	AH-CC_C118.0 138KV	150	-0.38572 OKGE	'MUSTANG 69KV'	106	
EPW	AH-CC_C118.0 138KV	150	-0.38572 SPS	'MUSTG5 118.0 230KV'	50	-0.00315 -0.38257
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 AEPW	'NARROWS 69KV'	22	-0.0133 -0.37242
EPW	'AH-CC_C118.0 138KV'	150	-0.38572 CELE	'NATCHITOCHES 69KV'	17.79226	0.00134 -0.38706
laximum Decrement and	d Maximum Increment were determine from the Souce and Si	k Operating Points in the	study models where '	imiting facility was identified.		· · · ·

Upgrade:	WICHITA - RENO 345KV								
	NORTH AMERICAN PHILIPS - NORTH AMERICAN PHILIPS	JUNCTION (SOUT	TH) 115KV/	CKT 1					
Direction:	From->To	0000							
Line Outage:	EAST MCPHERSON - SUMMIT 230KV CKT 1								
Flowgate:	57372573741568725687312207FA								
Date Redispatch Needed:	Starting 2007 10/1 - 12/1 Until EOC of Upgrade								
Season Flowgate Identified:	2007 Fall Peak								
eccecini nongato identined.	2007 Full Four	Aggregate Relief	٦						
Reservation	Relief Amount	Amount							
1162675			,						
				Sink					Aggregate
		Maximum		Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0279		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.0292	-0.53561	1 6
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'AES 161KV'	320	-0.00089	-0.50552	2 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'ARIES 161KV'	300	0.00857	-0.51498	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	WERE	'CHANUTE 69KV'	56.296	0.00263	-0.50904	1 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	WERE	'CITY OF AUGUSTA 69KV'	17	0.00126	-0.5076	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	WERE	'CITY OF BURLINGTON 69KV'	23.256	0.00479	-0.5112	2 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	WERE	CITY OF IOLA 69KV	24.256	0.00301	-0.50942	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	WERE	CITY OF MULVANE 69KV	4.891	-0.00102	-0.50539	3 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	WERE	'CITY OF WINFIELD 69KV'	9.083	-0.00119	-0.50522	2 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	WERE	'CLR_1 .575 34KV'	43.0032	0.00235	-0.50876	3 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.96	0.00479	-0.5112	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	AEPW	COGENTRIX 345KV	200	-0.00128	-0.50513	3 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	AEPW	COMANCHE 138KV	160	-0.00944	-0.49697	7 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	AEPW	'COMANCHE 69KV'	63	-0.00938	-0.49703	3 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	AEPW	'EASTMAN 138KV'	355	-0.00177	-0.50464	4 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	EMDE	'ELK RIVER 345KV'	150	0.00235	-0.50876	5 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	WERE	'EVANS ENERGY CENTER 138KV'	135.8691	0.00056	-0.50697	7 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	AEPW	'FITZHUGH 161KV'	92	-0.00068	-0.50573	3 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	AEPW	'FLINT CREEK 161KV'	400	0.00022	-0.50663	3 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'HAWTHORN 161KV'	455			
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'IATAN 345KV'	396	0.01103	-0.51744	1 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	AEPW	'L&D13 69KV'	11	-0.00077	-0.50564	1 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'LACYGNE UNIT 345KV'	800.1582	0.00786		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	MIPU	'LAKE ROAD 34KV'	71.90479	0.00654	-0.51295	5 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'LAWRENCE ENERGY CENTER 230KV'	234.1795			
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	AEPW	'LEBROCK 345KV'	515	-0.00177	-0.50464	1 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	AEPW	'LIEBERMAN 138KV'	4	-0.00162	-0.50479	9 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'MARSHALL 161KV'	15	0.0046	-0.51101	1 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	OKGE	'MCCLAIN 138KV'	478	-0.00498	-0.50143	3 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		OKGE	'MUSKOGEE 345KV'	1516			
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	KACY	'NEARMAN 20KV'	220			
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	AEPW	'NORTHEASTERN STATION 138KV'	302		-0.50602	2 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	AEPW	'NORTHEASTERN STATION 345KV'	550	-0.00009	-0.50632	2 7

WEDE		050	0.500.44	45014/	050.01510.0		0.00000	0.50540
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50641		'OEC 345KV'	419		-0.50548 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641		'OMPA-KAW 69KV'	19.80507	-0.00279	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641		'OMPA-PONCA CITY 69KV'	27.1617	-0.00279	-0.50362 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641		'OZARK BEACH 161KV'	16	0.00143	-0.50784 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641		'PIRKEY GENERATION 138KV'	440	-0.00176	-0.50465 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	KACY	'QUINDARO 161KV'	111.0268	0.00944	-0.51585 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	KACY	'QUINDARO 69KV'	72	0.00941	-0.51582 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	OKGE	'REDBUD 345KV'	250	-0.00398	-0.50243 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	AEPW	'RIVERSIDE STATION 138KV'	145	-0.00126	-0.50515 7
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50641		'RIVERTON 161KV'	38	0.00182	-0.50823 7
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50641	EMDE	'RIVERTON 69KV'	44.28906	0.00102	-0.50818 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	OKGE	'SEMINOLE 138KV'	485.8019	-0.00463	-0.50178 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641		'SEMINOLE 345KV'	614.2334	-0.00452	-0.50189 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641		'SIBLEY 161KV'	229.9199	0.00781	-0.51422 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	MIPU	'SIBLEY 69KV'	10	0.00793	-0.51434 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	OKGE	SOONER 138KV	505	-0.00316	-0.50325 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	OKGE	SOONER 345KV	513	-0.00347	-0.50294 7
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50641		SOUTHWESTERN STATION 138KV	29	-0.00932	-0.49709 7
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50641	EMDE		343.9296	0.00932	-0.50822 7
					STATE LINE 161KV			
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50641	WERE	'TECUMSEH ENERGY CENTER 115KV'	88	0.01885	-0.52526 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	WERE	'WACO 138KV'	17.946	-0.00419	-0.50222 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641		WELSH 345KV	990	-0.00198	-0.50443 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641		WILKES 138KV	7	-0.00183	-0.50458 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	AEPW	WILKES 345KV	52,77707	-0.0018	-0.50461 7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50641	WERE	COLBY 115KV	6.475063	-0.07643	-0.42998 8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	521	-0.40104	MIPU	'ARIES 161KV'	300	0.00857	-0.40961 8
WERE	HUTCHINSON ENERGY CENTER 115KV	521	-0.40104	WERE	CHANUTE 69KV	56.296	0.00263	-0.40367 8
WERE		521	-0.40104			23.256	0.00203	
	'HUTCHINSON ENERGY CENTER 115KV'				CITY OF BURLINGTON 69KV			
WERE	'HUTCHINSON ENERGY CENTER 115KV'	521	-0.40104		'CITY OF IOLA 69KV'	24.256	0.00301	-0.40405 8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	521	-0.40104		COFFEY COUNTY NO. 2 SHARPE 69KV	19.96	0.00479	-0.40583 8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	521	-0.40104		'HAWTHORN 161KV'	455	0.00834	-0.40938 8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	521	-0.40104	KACP	'IATAN 345KV'	396	0.01103	-0.41207 8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	521	-0.40104	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0279	-0.42894 8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	521	-0.40104	WFRF	JEFFREY ENERGY CENTER 345KV	940	0.0292	-0.43024 8
WERE	HUTCHINSON ENERGY CENTER 115KV	521	-0.40104		LACYGNE UNIT 345KV	800.1582	0.00786	-0.4089 8
WERE	HUTCHINSON ENERGY CENTER 115KV	521	-0.40104		LAKE ROAD 34KV	71.90479	0.00654	
						234.1795		
WERE	'HUTCHINSON ENERGY CENTER 115KV'	521	-0.40104		'LAWRENCE ENERGY CENTER 230KV'		0.01731	-0.41835 8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	521	-0.40104		'MARSHALL 161KV'	15	0.0046	-0.40564 8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	521	-0.40104		'NEARMAN 20KV'	220	0.00949	-0.41053 8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	521	-0.40104	KACY	'QUINDARO 161KV'	111.0268	0.00944	-0.41048 8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	521	-0.40104	KACY	'QUINDARO 69KV'	72	0.00941	-0.41045 8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	521	-0.40104	MIPU	'SIBLEY 161KV'	229,9199	0.00781	-0.40885 8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	521	-0.40104	MIPLI	SIBLEY 69KV	10	0.00793	-0.40897 8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	521	-0.40104		TECUMSEH ENERGY CENTER 115KV	88	0.01885	-0.41989 8
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.40085		ARIES 161KV	300	0.00857	-0.40942 8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40085		CHANUTE 69KV	56.296	0.00263	-0.40348 8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40085		'CITY OF BURLINGTON 69KV'	23.256	0.00479	-0.40564 8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40085		CITY OF IOLA 69KV	24.256	0.00301	-0.40386 8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40085		'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.00479	-0.40564 8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40085		'HAWTHORN 161KV'	455	0.00834	-0.40919 8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40085	KACP	'IATAN 345KV'	396	0.01103	-0.41188 8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40085		JEFFREY ENERGY CENTER 230KV	470	0.0279	-0.42875 8
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.40085		JEFFREY ENERGY CENTER 345KV	940	0.0292	-0.43005 8
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.40085		LACYGNE UNIT 345KV	800.1582	0.0232	-0.40871 8
WERE		67	-0.40085		LACTONE UNIT 345KV	71.90479	0.00786	
	'HUTCHINSON ENERGY CENTER 69KV'							
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40085		'LAWRENCE ENERGY CENTER 230KV'	234.1795	0.01731	-0.41816 8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40085		'MARSHALL 161KV'	15	0.0046	-0.40545 8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40085		'NEARMAN 20KV'	220	0.00949	-0.41034 8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40085	KACY	'QUINDARO 161KV'	111.0268	0.00944	-0.41029 8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40085		'QUINDARO 69KV'	72	0.00941	-0.41026 8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40085		SIBLEY 161KV	229.9199	0.00781	-0.40866 8
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.40085		SIBLEY 69KV	10	0.00793	-0.40878 8
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.40085		TECUMSEH ENERGY CENTER 115KV	88	0.01885	-0.4197 8
		259						
WERE	BPU - CITY OF MCPHERSON 115KV		-0.50641		'GRAY COUNTY WIND FARM 115KV'	60	-0.11571	-0.3907 9
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50641		'JUDSON LARGE 115KV'	33.38665	-0.11566	-0.39075 9
WERE	'HUTCHINSON ENERGY CENTER 115KV'	521			'AES 161KV'	320	-0.00089	-0.40015 9
Maximum Decrement and Ma	aximum Increment were determine from the Souce and Sink Oper	ating Points in the	study mod	els where	limiting facility was identified.			

laximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.

Factor = Source GSF - Sink GSF Redispatch Amount = Relief Amount / Factor

Lie energies	WICHITA - RENO 345KV								
Upgrade: Limiting Facility:				OKT 4					
Direction:	NORTH AMERICAN PHILIPS - NORTH AMERICAN PHILIPS From->To	JUNCTION (500)	IH) 115KV	CKII					
Line Outage:	EAST MCPHERSON - SUMMIT 230KV CKT 1								
	57372573741568725687312207SH								
Flowgate:									
Date Redispatch Needed:	6/1 - 10/1 Until EOC of Upgrade								
Season Flowgate Identified:	2007 Summer Shoulder	A DEC	n						
5	D.F.(August	Aggregate Relief							
Reservation	Relief Amount	Amount							
1162675	5 4.5	4.5							
				Sink					Aggregate
	-	Maximum		Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'IATAN 345KV'	396	0.01311		8
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'JEFFREY ENERGY CENTER 230KV'	470	0.033		8
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'JEFFREY ENERGY CENTER 345KV'	940	0.03435		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'LAWRENCE ENERGY CENTER 230KV'	235.4122	0.0212		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'NEARMAN 161KV'	77			8
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'NEARMAN 20KV'	220	0.01123		8
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52214		'QUINDARO 161KV'	116.9321	0.01116		8
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'QUINDARO 69KV'	89.12805	0.01112		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'SOUTH HARPER 161KV'	269.6653	0.01074		8
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52214		'TECUMSEH ENERGY CENTER 115KV'	108	0.0228		8
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'AES 161KV'	320	-0.00111		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52214		'ARIES 161KV'	300	0.01003		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52214		'ASBURY 161KV'	191	0.00281		9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52214	1 WERE	'CHANUTE 69KV'	46.617	0.0031	-0.52524	9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52214	1 WERE	'CITY OF AUGUSTA 69KV'	20	0.00167	-0.52381	9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52214	1 WERE	'CITY OF BURLINGTON 69KV'	27.75	0.00569		. 9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52214	1 WERE	'CITY OF ERIE 69KV'	23.258	0.0031		9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52214	1 WERE	'CITY OF IOLA 69KV'	19.865	0.00355	-0.52569	9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'CITY OF MULVANE 69KV'	6.189	-0.00095		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52214	1 WERE	'CITY OF WINFIELD 69KV'	16.47	-0.00128	-0.52086	9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52214	1 WERE	'CLR_1 .575 34KV'	40.0044	0.00286	-0.525	9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52214	1 WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.00569	-0.52783	. 9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52214	1 AEPW	'COGENTRIX 345KV'	200	-0.00158	-0.52056	. 9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52214	1 AEPW	COMANCHE 138KV	160	-0.01139	-0.51075	9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52214	1 AEPW	'COMANCHE 69KV'	63	-0.01132	-0.51082	9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52214	1 AEPW	'EASTMAN 138KV'	355	-0.00215	-0.51999	9
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.52214	1 EMDE	'ELK RIVER 345KV'	150	0.00286	-0.525	. 9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52214	1 WERE	'EVANS ENERGY CENTER 138KV'	270.5388	0.00086	-0.523	9
WERE	BPU - CITY OF MCPHERSON 115KV	259			FITZHUGH 161KV	7.999987	-0.00085		
WERE	BPU - CITY OF MCPHERSON 115KV	259			'FLINT CREEK 161KV'	400	0.00022		
WERE	BPU - CITY OF MCPHERSON 115KV	259			'GILL ENERGY CENTER 138KV'	77	-0.00519		
WERE	BPU - CITY OF MCPHERSON 115KV	259			HAWTHORN 161KV	661.084	0.00985		
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.52214		HORSESHOE LAKE 138KV	91	-0.00537		9
WERE	BPU - CITY OF MCPHERSON 115KV	259			HORSESHOE LAKE 69KV	16			q
WERE	BPU - CITY OF MCPHERSON 115KV	259			KNOXLEE 138KV	103			9
Too and a second		200	0.0221-			103	0.00210	0.02001	

VERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.52214 AEPW	'L&D13 69KV'	11	
VERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.52214 KACP	'LACYGNE UNIT 345KV'	958	
/ERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.52214 MIPU	'LAKE ROAD 161KV'	35	
ERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.52214 MIPU	'LAKE ROAD 34KV'	92	0.00783 -0.52997
ERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.52214 AEPW	'LEBROCK 345KV'	515	-0.00214 -0.52
ERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.52214 AEPW	'LIEBERMAN 138KV'	4	-0.00197 -0.52017
ERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.52214 KACP	'MARSHALL 161KV'	15	0.00543 -0.52757
ERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.52214 OKGE	'MCCLAIN 138KV'	478	-0.00602 -0.51612
ERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.52214 KACP	'MONTROSE 161KV'	351.9386	0.00877 -0.53091
ERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.52214 OKGE	'MUSKOGEE 345KV'	1516	-0.00167 -0.52047
ERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.52214 OKGE	'MUSTANG 138KV'	57.76465	-0.00586 -0.51628
ERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.52214 OKGE	'MUSTANG 69KV'	106	-0.00589 -0.51625
ERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.52214 AEPW	'NARROWS 69KV'	22	-0.00276 -0.51938
ERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.52214 AEPW	'NORTHEASTERN STATION 138KV'	500	
ERE	BPU - CITY OF MCPHERSON 115KV	259 -0.52214 AEPW	'NORTHEASTERN STATION 345KV'	608	-0.00016 -0.52198
ERE	BPU - CITY OF MCPHERSON 115KV	259 -0.52214 AEPW	'OEC 345KV'	419	
ERE	BPU - CITY OF MCPHERSON 115KV	259 -0.52214 OKGE	OMPA-KAW 69KV	19.7	-0.00334 -0.5188
ERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.52214 OKGE	'OMPA-PONCA CITY 69KV'	86.62021	-0.00334 -0.5188
ERE	BPU - CITY OF MCPHERSON 115KV	259 -0.52214 OKGE	ONE OAK 345KV	50	
ERE	BPU - CITY OF MCPHERSON 115KV	259 -0.52214 EMDE	OZARK BEACH 161KV	16	
ERE	BPU - CITY OF MCPHERSON 115KV	259 -0.52214 AEPW	'PIRKEY GENERATION 138KV'	440	-0.00214 -0.52
RE	BPU - CITY OF MCPHERSON 115KV	259 -0.52214 OKGE	REDBUD 345KV	250	-0.00481 -0.51733
RE	BPU - CITY OF MCPHERSON 115KV	259 -0.52214 AEPW	'RIVERSIDE STATION 138KV'	482	
ERE	BPU - CITY OF MCPHERSON 115KV	259 -0.52214 EMDE	'RIVERTON 161KV'	38	
ERE	BPU - CITY OF MCPHERSON 115KV	259 -0.52214 EMDE	'RIVERTON 69KV'	44.82093	0.00206 -0.5242
ERE	BPU - CITY OF MCPHERSON 115KV BPU - CITY OF MCPHERSON 115KV	259 -0.52214 OKGE 259 -0.52214 OKGE	SEMINOLE 138KV	484.787	-0.0056 -0.51654 -0.00546 -0.51668
ERE			SEMINOLE 345KV	996	
ERE	'BPU - CITY OF MCPHERSON 115KV' 'BPU - CITY OF MCPHERSON 115KV'	259 -0.52214 MIPU 259 -0.52214 MIPU	SIBLEY 161KV' SIBLEY 69KV'	229.0592	0.0092 -0.53134 0.00934 -0.53148
ERE					
	BPU - CITY OF MCPHERSON 115KV		SMITH COGEN 138KV	120	
ERE	BPU - CITY OF MCPHERSON 115KV		SOONER 138KV	505	-0.0038 -0.51834
ERE	BPU - CITY OF MCPHERSON 115KV	259 -0.52214 OKGE	SOONER 345KV	513	-0.00417 -0.51797
ERE	BPU - CITY OF MCPHERSON 115KV	259 -0.52214 AEPW	SOUTHWESTERN STATION 138KV	471.4843	-0.01125 -0.51089
ERE	'BPU - CITY OF MCPHERSON 115KV' 'BPU - CITY OF MCPHERSON 115KV'	259 -0.52214 EMDE 259 -0.52214 AEPW	STATE LINE 161KV		0.00211 -0.52425
ERE			TULSA POWER STATION 138KV	77	
ERE	BPU - CITY OF MCPHERSON 115KV	259 -0.52214 WERE	WACO 138KV'	17.947	-0.00457 -0.51757
	BPU - CITY OF MCPHERSON 115KV	259 -0.52214 AEPW	WELSH 345KV	960	-0.00241 -0.51973
ERE	BPU - CITY OF MCPHERSON 115KV	259 -0.52214 AEPW	WILKES 138KV	139.7875	-0.00222 -0.51992
ERE	BPU - CITY OF MCPHERSON 115KV	259 -0.52214 AEPW	WILKES 345KV	158.9639	-0.00218 -0.51996
ERE	BPU - CITY OF MCPHERSON 115KV	259 -0.52214 WERE	COLBY 115KV	4.028258	-0.0786 -0.44354
ERE	'HUTCHINSON ENERGY CENTER 115KV'	381 -0.42248 MIPU 381 -0.42248 KACP	ARIES 161KV	300 661.084	0.01003 -0.43251 0.00985 -0.43233
ERE	'HUTCHINSON ENERGY CENTER 115KV'		'HAWTHORN 161KV'		
ERE	HUTCHINSON ENERGY CENTER 115KV	381 -0.42248 KACP	IATAN 345KV	396	0.01311 -0.43559 0.033 -0.45548
ERE	'HUTCHINSON ENERGY CENTER 115KV'	381 -0.42248 WERE 381 -0.42248 WERE	JEFFREY ENERGY CENTER 230KV' JEFFREY ENERGY CENTER 345KV'	940	
	HUTCHINSON ENERGY CENTER 115KV				
ERE	HUTCHINSON ENERGY CENTER 115KV	381 -0.42248 KACP	LACYGNE UNIT 345KV	958 235.4122	0.00921 -0.43169 0.0212 -0.44368
ERE	'HUTCHINSON ENERGY CENTER 115KV'	381 -0.42248 WERE	'LAWRENCE ENERGY CENTER 230KV'		
ERE	HUTCHINSON ENERGY CENTER 115KV	381 -0.42248 KACP 381 -0.42248 KACY	'MONTROSE 161KV' 'NEARMAN 161KV'	351.9386	0.00877 -0.43125 0.01123 -0.43371
ERE	HUTCHINSON ENERGY CENTER 115KV			77	
ERE	HUTCHINSON ENERGY CENTER 115KV	381 -0.42248 KACY	'NEARMAN 20KV'	220	
ERE	'HUTCHINSON ENERGY CENTER 115KV' 'HUTCHINSON ENERGY CENTER 115KV'	381 -0.42248 KACY 381 -0.42248 KACY	'QUINDARO 161KV' 'QUINDARO 69KV'	116.9321 89.12805	0.01116 -0.43364 0.01112 -0.4336
ERE ERE	HUTCHINSON ENERGY CENTER 115KV	381 -0.42248 MIPU 381 -0.42248 MIPU	SIBLEY 161KV SIBLEY 69KV	229.0592	0.0092 -0.43168 0.00934 -0.43182
ERE	HUTCHINSON ENERGY CENTER 115KV	381 -0.42248 MIPU 381 -0.42248 MIPU	SIBLEY 69KV SOUTH HARPER 161KV	45.99999	0.00934 -0.43182 0.01074 -0.43322
ERE	'HUTCHINSON ENERGY CENTER 115KV' 'HUTCHINSON ENERGY CENTER 115KV'	381 -0.42248 MIPU 381 -0.42248 WERE	TECUMSEH ENERGY CENTER 115KV	269.6653	0.01074 -0.43322 0.0228 -0.44528
ERE	HUTCHINSON ENERGY CENTER 115KV HUTCHINSON ENERGY CENTER 69KV	67 -0.42248 WERE	ARIES 161KV	300	0.01003 -0.43232
ERE	HUTCHINSON ENERGY CENTER 69KV	67 -0.42229 MIPO 67 -0.42229 KACP	HAWTHORN 161KV	661.084	0.00985 -0.43214
ERE	HUTCHINSON ENERGY CENTER 69KV	67 -0.42229 KACP 67 -0.42229 KACP	IAWTHORN 161KV	396	
ERE	HUTCHINSON ENERGY CENTER 69KV	67 -0.42229 KACP 67 -0.42229 WERE	JEFFREY ENERGY CENTER 230KV	470	
ERE	HUTCHINSON ENERGY CENTER 69KV	67 -0.42229 WERE	JEFFREY ENERGY CENTER 345KV	940	0.033 -0.45529
ERE	HUTCHINSON ENERGY CENTER 69KV HUTCHINSON ENERGY CENTER 69KV	67 -0.42229 WERE 67 -0.42229 KACP	'LACYGNE UNIT 345KV'	940	0.00921 -0.4315
	HUTCHINSON ENERGY CENTER 69KV	67 -0.42229 KACP 67 -0.42229 WERE	LACYGNE UNIT 345KV LAWRENCE ENERGY CENTER 230KV	235.4122	
'ERE					
	'HUTCHINSON ENERGY CENTER 69KV'	67 -0.42229 KACP	'MONTROSE 161KV'	351.9386	0.00877 -0.43106
/ERE /ERE	HUTCHINSON ENERGY CENTER 69KV	67 -0.42229 KACY	'NEARMAN 161KV'	77	0.01123 -0.43352

 Source Control Area

 WERE

 <td

Upgrade:	WICHITA - RENO 345KV		
Limiting Facility:	NORTH AMERICAN PHILIPS - NORTH AMERICAN PHILIPS	JUNCTION (SOUT	H) 115KV CKT 1
Direction:	From->To		
Line Outage:	EAST MCPHERSON - SUMMIT 230KV CKT 1		
Flowgate:	57372573741568725687312207WP		
Date Redispatch Needed:	12/1/07 - 4/1/08		
Season Flowgate Identified:	2007 Winter Peak		
		Aggregate Relief	
Reservation	Relief Amount	Amount	
1162675	3.4	3.4	

Source         Naximum         Sink Control         Control         Maximum         Agergane Redispatch           Source         Increment(IAW)         GSF         Area         Sink         Decrement(IAW)         GSF         Factor         Maximum         Decrement(IAW)         GSF         Factor         Mount (IAW)           BPU - CITY OF MCPHERSON 115KV         256         -5.0658 WERE         SURVEY         LEFFREY ENREGY CENTER 346KV         940         0.02295         -0.53451         6           BPU - CITY OF MCPHERSON 115KV         256         -0.50638 WERE         SURVEY HILLS 34KV         152         -0.50636         6           BPU - CITY OF MCPHERSON 115KV         259         -0.50638 WERE         CHANUTE 68KV         300         0.00261         -0.5083           BPU - CITY OF MCPHERSON 115KV         259         -0.50638 WERE         CHANUTE 68KV         348 18         0.00271         -0.5083         7           BPU - CITY OF MCPHERSON 115KV         259         -0.50638 WERE         CHANUT OF AUGUSTA 68KV         348 18         0.00271         -0.5083         7           BPU - CITY OF MCPHERSON 115KV         259         -0.50638 WERE         CHANUT 68KV         3.051119         7           BPU - CITY OF MCPHERSON 115KV         259         -0.50638 WERE	5	3.4	3.4							
Source         Increment(MW)         GSF         Area         Sink         Decrement(MW)         GSF         Factor         Amount (MW)           BPU - CITY OF MCPHERSON 115KV         256         0.50636 [WERE         LIFFREY FNERGY CENTER 236KV         940         0.02735         -0.53581         6           BPU - CITY OF MCPHERSON 115KV         256         0.5063 [WERE         LIFFREY FNERGY CENTER 236KV         940         0.02735         -0.53581         6           BPU - CITY OF MCPHERSON 115KV         256         0.5063 [MERE         ABICS 161KV         241         -0.00086         -0.5053         7           BPU - CITY OF MCPHERSON 115KV         256         0.5063 [MERE         ABICS 161KV         300         0.0061         -0.5163         7           BPU - CITY OF MCPHERSON 115KV         256         0.5063 [WERE         CITY OF BURLINGTON 68KV         348.18         0.0027         -0.5093         7           BPU - CITY OF MCPHERSON 115KV         256         0.5063 [WERE         CITY OF BURLINGTON 68KV         348.18         0.0027         -0.5093         7           BPU - CITY OF MCPHERSON 115KV         256         0.5063 [WERE         CITY OF BURLINGTON 68KV         216         0.5063         7           BPU - CITY OF MCPHERSON 115KV         256         0.5063 [WE					Sink					
IPU_CITY OF MCPHERSON 115KV         259         -0.50638         WERE         UEFFREY ENERGY CENTER 230KV         470         0.0278         -0.53431         -6           BPU_CITY OF MCPHERSON 115KV         259         -0.50638         WERE         SMOKEY CENTER 246KV         192         0.02345         0.53581         6           BPU_CITY OF MCPHERSON 115KV         259         -0.50638         MERE         SMOKEY         192         0.00861         -0.5165         7           BPU_CITY OF MCPHERSON 115KV         259         -0.50638         MERE         161KV         300         0.00861         -0.51497         7           BPU_CITY OF MCPHERSON 115KV         259         -0.50638         MERE         CITY OF MCPHERSON 115KV         301         0.50668         7           BPU_CITY OF MCPHERSON 115KV         259         -0.50638         WERE         CITY OF AUGUSTA         684V         15         0.0043         -0.51119         7           BPU_CITY OF MCPHERSON 115KV         259         -0.50638         WERE         CITY OF IDLA GRV         14.565         0.0038         -0.5014         7           BPU_CITY OF MCPHERSON 115KV         259         -0.50638         WERE         CITY OF IDLA GRV         3.691         -0.0028         -5.0538 <t< td=""><td></td><td></td><td>Maximum</td><td></td><td>Control</td><td></td><td>Maximum</td><td></td><td></td><td>Redispatch</td></t<>			Maximum		Control		Maximum			Redispatch
IPU_CITY OF MCPHERSON 115KV         259         -0.50638         WERE         LEFFREY PLREGY CENTER 345KV         940         0.02225         -0.53561         65           IPU_CITY OF MCPHERSON 115KV         259         -0.50638         MCR         AKV         241         -0.0036         -0.5478         -0.5055         7           IPU_CITY OF MCPHERSON 115KV         259         -0.50638         MCR         ARIES 161KV         300         0.00361         -0.51497         7           IPU_CITY OF MCPHERSON 115KV         259         -0.50638         MCR         ARIES 161KV         300         0.00361         -0.51497         7           IPU_CITY OF MCPHERSON 115KV         259         -0.50638         MCR         CHANUTE 68KV         3418         0.00247         -0.5068         TO           IPU_CITY OF MCPHERSON 115KV         259         -0.50638         WERE         CITY OF BURLINGTON 68KV         20.51         0.0036         -0.50314         7           IPU_CITY OF MCPHERSON 115KV         259         -0.50638         WERE         CITY OF MULAURA 68KV         3.51         0.0036         -0.50314         7           IPU_CITY OF MCPHERSON 115KV         259         -0.50638         WERE         CITY OF MULAURA 68KV         3.60119         7      <			Increment(MW)				Decrement(MW)			Amount (MW)
IPU_CITY OF MCPHERSON 115KV         2269         -0.50383 [WERE         BMVeV         1152         0.02436         -0.50381         6           IPU_CITY OF MCPHERSON 115KV         2269         -0.50383 [MIPU         ARIE         161KV         300         0.00861         -0.50487         7           IPU_CITY OF MCPHERSON 115KV         2269         -0.50383 [MIPU         ARIE         161KV         300         0.00861         -0.5088         7           IPU_CITY OF MCPHERSON 115KV         2269         -0.50383 [WERE         CHAULE 68KV         34.818         0.00244         -0.5088         7           IPU_CITY OF MCPHERSON 115KV         2269         -0.50383 [WERE         CITY OF BURLINGTON 68KV         20.511         0.0013         -0.50768         7           IPU_CITY OF MCPHERSON 115KV         2269         -0.5038 [WERE         CITY OF BURLINGTON 68KV         20.511         0.00305         -0.50381         7           IPU_CITY OF MCPHERSON 115KV         2269         -0.5038 [WERE         CITY OF MULVARE 68KV         3.811         0.00305         -0.50331         7           IPU_CITY OF MCPHERSON 115KV         2269         -0.5038 [WERE         CITY OF MULVARE 68KV         3.81115         7           IPU_CITY OF MCPHERSON 115KV         2269         -0.50383 [WERE										6
IPPU-CITY OF MCPHERSON 115KV         259         0-50038         OKGE         AES         161KV         300         0.0086         0.50655         7           IPPU-CITY OF MCPHERSON 115KV         259         0-50038         IPMU         ARIES         161KV         300         0.0086         1.05497         7           IPU-CITY OF MCPHERSON 115KV         259         0-50038         IPER         CHANUTE         68KY         1161         0.00244         -0.5088         IPER         CHANUTE         68KY         161         0.0013         0.50766         7           ISPU-CITY OF MCPHERSON 115KV         259         0-50638         WERE         CITY OF AUGHERSON 115KV         20.501         0.00481         0.50716         7           ISPU-CITY OF MCPHERSON 115KV         259         0-50638         WERE         CITY OF BURLINGTON 69KV         14.656         0.00381         0.50931         7           BPU-CITY OF MCPHERSON 115KV         259         0-50638         WERE         CITY OF MULARE 69KV         3.791         0.00088         -0.50531         7           BPU-CITY OF MCPHERSON 115KV         259         0-50638         WERE         COTY OF MULARE 69KV         18.09868         0.00351         -0.50521         7           BPU-CITY OF MCPHERS										6
IPPU-CITY OF MCPHERSON 115KV         259         -0.50386 MPU         ARES 161KV         300         0.00861         -0.51497         7           IPPU-CITY OF MCPHERSON 115KV         259         -0.50036 IDEN         ASBURY 161KV         91         0.00267         0.50036           IPU-CITY OF MCPHERSON 115KV         259         -0.50036 IDEN         CMUUETA 68KV         16         0.00267         0.50036         T           IPU-CITY OF MCPHERSON 115KV         259         -0.50038 IDENE         CITY OF AUGUSTA 68KV         16         0.0013         0.50161         T         0.60063         T         1         0.00143         0.5011         0.50031         T         1         0.6017         14         0.6503         T         1         0.6017         14         0.5017         1         0.5017         1         0.5017         1         0.5017         1         0.5017         1         0.5017         1         0.5017         1         0.5017         1         0.5017         1         0.5021         1         1         0.5038         T         7         0         0.5021         7         0         0.5021         7         0         0.5023         7         0         0.50238         0.50238         7         0<			259							6
IPPU-CITY OF MCPHERSON 115KV         259         -0.50838 EMDE         ASBURY 161KV         191         0.00244         -0.50838         7           IPPU-CITY OF MCPHERSON 115KV         259         -0.50838 WERE         CITY OF AUGUSTA 69KV         34.818         0.0027         -0.50938         7           IPU-CITY OF MCPHERSON 115KV         259         -0.50838 WERE         CITY OF BURLINGTON 68KV         20.51         0.00431         -0.51716           ISPU-CITY OF MCPHERSON 115KV         259         -0.50636 WERE         CITY OF INCHARSON 15KV         3.731         -0.00056         -0.50538           ISPU-CITY OF MCPHERSON 115KV         259         -0.50636 WERE         CITY OF MULVARE 69KV         3.80499         -0.0015         -0.50538           ISPU-CITY OF MCPHERSON 115KV         259         -0.50636 WERE         CITY OF MULVARE 69KV         3.80499         -0.0015         -0.50538           ISPU-CITY OF MCPHERSON 115KV         259         -0.50636 WERE         COTFEV CONTY NO.2 SHARPE 69KV         19.95         -0.00484         -0.50512         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50638 AEPW         COMANCHE 138KV         10.0024         -0.50512         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50638 AEPW         COMANCHE 138KV         10.0024										7
IPPU-CITY OF MCPHERSON 115KV         259         0.50636 WERE         CHNAUTE 68KV         34.818         0.00267         -0.50903         7           BPU-CITY OF MCPHERSON 115KV         259         0.50636 WERE         CITY OF MCUSTA 68VV         15         0.0013         -0.50766         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50636 WERE         CITY OF INCLIVATION         68KV         14.4565         0.00363         -0.50914         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50636 WERE         CITY OF INCLARESON         3.791<-0.00086										7
IPPU-CITY OF MCPHERSON 115KV         259         -0.50836         WERE         CITY OF MULVINTON         2651         0.0013         -0.50766         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50836         WERE         CITY OF MULVINTON         20.51         0.00036         -0.50036         0.50031         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50636         WERE         CITY OF MULVANE         3.791         -0.00086         -0.50538         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50636         WERE         CITY OF MULVANE         804V         3.791         -0.00086         -0.50538           BPU-CITY OF MCPHERSON 115KV         259         -0.50636         WERE         CITY OF MULVANE         8.000239         -0.50637         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50636         MERE         COFFE/COUNTY NO.2         S44VV         56.99686         -0.00124         -0.50512         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50636         AEPW         COMANCHE 69KV         10.0034         -0.49702         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50636         AEPW         COMANCHE 69KV         50.00014         -0.50666 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>7</td></t<>										7
BPU - CITY OF MCPHERSON 115KV         2551         0.00483         -0.5511         0.00483         -0.5511         0.00483         -0.5511         0.00483         -0.5511         7           BPU - CITY OF MCPHERSON 115KV         2591         -0.50638         WERE         CITY OF NULVANE 69KV         3.781         -0.0098         -0.50538         T           BPU - CITY OF MCPHERSON 115KV         2591         -0.50638         WERE         CITY OF NULVANE 69KV         8.060999         -0.00151         -0.50538         T           BPU - CITY OF MCPHERSON 115KV         2591         -0.50638         WERE         CITY OF NULVANE 69KV         8.060999         -0.00151         -0.50537         T           BPU - CITY OF MCPHERSON 115KV         2591         -0.50638         WERE         COFFEV COUNTY NO.2 SHAPPE 69KV         19.95         0.00433         -0.51119         T           BPU - CITY OF MCPHERSON 115KV         2591         -0.50638         AEPW         COMANCHE 138KV         200         -0.00124         -0.50512         T           BPU - CITY OF MCPHERSON 115KV         2591         -0.50636         AEPW         COMANCHE 138KV         200         -0.00124         -0.50612         T           BPU - CITY OF MCPHERSON 115KV         2581         -0.50636 AEPW         COMANCHE 1										7
IPU-CITY OF MCPHERSON 115KV         259         0.50836         WERE         CITY OF INLVANCE         98/V         14.565         0.0035         0.50941         7           IBPU-CITY OF MCPHERSON 115KV         259         0.50636         WERE         CITY OF MULVANE 68/V         3.791         -0.0008         -0.50531         7           IBPU-CITY OF MCPHERSON 115KV         259         0.50636         WERE         CLPY OF WINFIELD 68/V         58.9068         -0.00121         -0.50521         7           IBPU-CITY OF MCPHERSON 115KV         259         -0.50636         WERE         CLPY OF MCPHERSON 115KV         58.9068         -0.00124         -0.50512         7           IBPU-CITY OF MCPHERSON 115KV         259         -0.50636         AEPW         COGENTRIX 345KV         200         -0.00124         -0.50512         7           IBPU-CITY OF MCPHERSON 115KV         259         -0.50636         AEPW         COMANCHE 138KV         160         -0.0044         -0.4066         7           IBPU-CITY OF MCPHERSON 115KV         259         -0.50636         AEPW         COMANCHE 138KV         160         -0.0044         -0.4066         7           IBPU-CITY OF MCPHERSON 115KV         259         -0.50636         AEPW         COMANCHE 138KV         63         -0										7
IPPU-CITY OF MCPHERSON 115KV         259         -0.50838 WERE         CITY OF MULVARE 69KV         3.791         -0.00038         -0.50538         7           IPPU-CITY OF MCPHERSON 115KV         259         -0.50638 WERE         CITY OF MULVARE 69KV         8.000999         -0.00151         -0.50538         7           IPPU-CITY OF MCPHERSON 115KV         259         -0.50638 WERE         COLFEY COUNTY NO. 2 SHARPE 69KV         19.99         0.00438         -0.51119         7           IPU-CITY OF MCPHERSON 115KV         259         -0.50638 WERE         COFEY COUNTY NO. 2 SHARPE 69KV         200         -0.00124         -0.55512         7           IPU-CITY OF MCPHERSON 115KV         259         -0.50638 AEPW         COMANCHE 138KV         200         -0.00124         -0.55512         7           IPU-CITY OF MCPHERSON 115KV         259         -0.50638 AEPW         COMANCHE 138KV         50         -0.00124         -0.50562         7           IPU-CITY OF MCPHERSON 115KV         259         -0.50638 AEPW         COMANCHE 138KV         55         -0.00174         -0.50662         7           IPU-CITY OF MCPHERSON 115KV         259         -0.50636 AEPW         FIZHUCH 161KV         48.16         0.00029         -0.50636         -0.50636         7           IPU-CITY OF MCPHERSON 1										7
IBPU_CITY OF MCPHERSON 115KV         2561         0.50638         WERE         CLR         5.75         34KV         8.080989         -0.00115         -0.50521         7           BPU_CITY OF MCPHERSON 115KV         2591         0.50638         WERE         CLR         1.575         34KV         56.9986         0.00257         7           BPU_CITY OF MCPHERSON 115KV         2591         0.50638         WERE         COFFEY COUNTY NO. 2 SHARPE 69KV         19.95         0.00483         -0.51115         7           BPU_CITY OF MCPHERSON 115KV         2591         -0.50636         AEPW         COOFFEY COUNTY NO. 2 SHARPE 69KV         10.9         -0.00124         -0.50512         7           BPU_CITY OF MCPHERSON 115KV         2591         -0.50636         AEPW         COMANCHE 138KV         10.0         -0.00124         -0.50512         7           BPU_CITY OF MCPHERSON 115KV         2591         -0.50636         AEPW         COMANCHE 138KV         10.0         -0.00124         -0.50636         AEPW         COMANCHE 98KV         63         -0.00124         -0.50636         AEPW         COMANCHE 38KV         150         -0.00734         -0.5171         7           BPU_CITY OF MCPHERSON 115KV         259         -0.50636         AEPW         EVANS ENERGY CENTER 138KV										7
IPPU-CITY OF MCPHERSON 115KV         259         -0.50836         WERE         COLR 1. 575         34KV         58.9968         0.00239         -0.508375         7           IPPU-CITY OF MCPHERSON 115KV         259         -0.50836         WERE         COFFEY COUNTY NO. 2 SHARPE 69KV         19.9         0.00438         -0.51119         7           IPU-CITY OF MCPHERSON 115KV         259         -0.50836         AEPW         COMPACTMENT         355V/V         200         -0.00124         -0.50512         7           IPU-CITY OF MCPHERSON 115KV         259         -0.50836         AEPW         COMANCHE 138KV         100         -0.0044         -0.45666         7           IPU-CITY OF MCPHERSON 115KV         259         -0.50836         AEPW         COMANCHE 138KV         355         -0.00174         -0.50462         7           IPU-CITY OF MCPHERSON 115KV         259         -0.50636         MERE         EVANS ENERGY CENTE 138KV         355         -0.00174         -0.506862         7           IPU-CITY OF MCPHERSON 115KV         259         -0.50636         MERE         EVANS ENERGY CENTE 138KV         48.16         0.00029         -0.50866         -7           IPU-CITY OF MCPHERSON 115KV         259         -0.50636         MERE         EVANT NASKV										7
IPPU-CITY OF MCPHERSON 115KV         259         0.00838         IPPU-CITY OF MCPHERSON 115KV         19 95         0.00483         -0.51119         7           IPPU-CITY OF MCPHERSON 115KV         259         0.50836 AEPW         COGENTRIX 345KV         200         -0.0034         -0.40846         -0.50836         -0.0034         -0.40846         -0.0034         -0.40846         -0.0034         -0.40866         7           IPPU-CITY OF MCPHERSON 115KV         259         -0.50636 AEPW         COMANCHE 138KV         63         -0.0034         -0.40866         7           IPU-CITY OF MCPHERSON 115KV         259         -0.50636 AEPW         COMANCHE 138KV         63         -0.0034         -0.40866         7           IPU-CITY OF MCPHERSON 115KV         259         -0.50636 MEPW         ELATIMAN 138KV         355         -0.00174         -0.50836         -0.00174         -0.50636         -0.50636         PU         CITY OF MCPHERSON 115KV         259         -0.50636         PU         -0.5071         7           ISPU-CITY OF MCPHERSON 115KV         259         -0.50636         PU         TEVINCERER 138KV         48.16         0.0006         -0.50766         7           ISPU-CITY OF MCPHERSON 115KV         259         -0.50636 AEPW         FLINT CREER 161KV         400										7
IPPU_CITY OF MCPHERSON 115KV         226         -0.00363         AEPW         COOGENTRIX: 345KV         200         -0.00124         -0.50512         7           IPPU_CITY OF MCPHERSON 115KV         256         -0.00363         AEPW         COMANCHE 138KV         160         -0.0044         -0.459512         7           IPPU_CITY OF MCPHERSON 115KV         256         -0.00363         AEPW         COMANCHE 138KV         163         -0.00344         -0.44702         7           IPU_CITY OF MCPHERSON 115KV         256         -0.00174         -0.50836         AEPW         EASTMAN 138KV         355         -0.00124         -0.508875         7           IPU_CITY OF MCPHERSON 115KV         258         -0.50836         AEPW         FLAINERSOV         415         0.00029         -0.508875         7           IPU_CITY OF MCPHERSON 115KV         258         -0.50836         AEPW         FLAINERSOV         416         0.00025         -0.50875         7           IPU_CITY OF MCPHERSON 115KV         258         -0.50636         AEPW         FLINT CREEK 161KV         406         0.00025         -0.50661         7           IPU_CITY OF MCPHERSON 115KV         258         -0.50636         ACPW         IAN 345KV         400         0.00025         -0.506661 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>7</td>										7
IPPU-CITY OF MCPHERSON 115KV         259         -0.50838         AEPW         COMANCHE 138KV'         160         -0.0094         -0.48966         7           IPPU-CITY OF MCPHERSON 115KV         259         -0.50838         AEPW         COMANCHE 68KV'         63         -0.0094         -0.48966         7           IPU-CITY OF MCPHERSON 115KV'         259         -0.50836         AEPW         COMANCHE 68KV'         355         -0.0074         -0.50862         7           IPU-CITY OF MCPHERSON 115KV'         259         -0.50636         MEDE         ELK RIVER 345KV'         451         0.00239         -0.50866         7           IPU-CITY OF MCPHERSON 115KV         259         -0.50636         MEDE         ELK RIVER 345KV'         451         0.00239         -0.50636         -0.50666         7           IPU-CITY OF MCPHERSON 115KV         259         -0.50636         AEPW         FLINT CREEK 161KV'         400         0.00025         -0.5051         7           IPU-CITY OF MCPHERSON 115KV         259         -0.50636         AEPW         FLINT CREEK 161KV'         400         0.00025         -0.50561         7           IPU-CITY OF MCPHERSON 115KV         259         -0.50636         AEPW         FLINT CREEK 161KV'         455         0.00039										7
IBPU_CITY OF MCPHERSON 115KV         259         0.50836         AEPW         EXOMANCHE 69KV         63         0.00934         0.49702         7           IBPU_CITY OF MCPHERSON 115KV         259         0.50836         AEPW         EASTMAN 138KV         355         0.00141         0.00239         0.50836         AEPW         EASTMAN 138KV         355         0.00141         0.00239         0.50836         AEPW         EASTMAN 138KV         150         0.00239         0.50836         AEPW         EASTMAN 138KV         150         0.00239         0.50836         AEPW         EXANS KNY         481         0.0006         0.508666         7           BPU_CITY OF MCPHERSON 115KV         259         0.50836         AEPW         FLUNT CREEK 161KV         400         0.00025         0.50561         7           BPU_CITY OF MCPHERSON 115KV         259         0.50636         ACP         HAWTHORN 161KV         455         0.00839         0.51475         7           BPU_CITY OF MCPHERSON 115KV         259         0.50636         ACP         HAWTHORN 161KV         455         0.00839         0.51475         7           BPU_CITY OF MCPHERSON 115KV         259         0.50636         ACP         HAWTHORN 161KV         366         0.01168         0.51744										7
BPU - CITY OF MCPHERSON 115KV'         259         -0.00363         AERTMAN 138KV'         355         -0.00174         -0.50462         7           BPU - CITY OF MCPHERSON 115KV'         259         -0.50636         AERTMAN 138KV'         150         0.0023         -0.50635         7           BPU - CITY OF MCPHERSON 115KV'         259         -0.50636         MERE         EVANS ENERGY CENTER 138KV'         48.116         0.0006         -0.50696         7           BPU - CITY OF MCPHERSON 115KV'         259         -0.50636         AEPW         FLITURUH (1KV')         75.99999         -0.0006         -0.50696         7           BPU - CITY OF MCPHERSON 115KV'         259         -0.50636         AEPW         FLINT CREEK 161KV'         40.00         0.00026         -0.50696         77           BPU - CITY OF MCPHERSON 115KV'         259         -0.50636         AEAPW         FLINT CREEK 161KV'         40.0         0.00023         -0.51475         7           BPU - CITY OF MCPHERSON 115KV'         259         -0.50636         AEAPW         FLINT CREEK 161KV'         40.0         0.00023         -0.51475         7           BPU - CITY OF MCPHERSON 115KV'         259         -0.50636         AEAPW         HAWTHORN 161KV'         30.0         0.0173         -0.50463										7
IPPU-CITY OF MCPHERSON 115KV         259         -0.50838 EMDE         ELK RIVER 345KV         150         0.00239         -0.508375         7           IPPU-CITY OF MCPHERSON 115KV         259         -0.50838 EMDE         EVANS ENREGY CENTER 138KV         48.116         0.00036         -0.508375         7           IPPU-CITY OF MCPHERSON 115KV         259         -0.50838 MERE         EVANS ENREGY CENTER 138KV         48.116         0.0005         -0.505871         7           IPU-CITY OF MCPHERSON 115KV         259         -0.50838 AEPW         FLINT CREEK 161KV         40.00         0.00025         -0.505816         7           IPU-CITY OF MCPHERSON 115KV         259         -0.50838 KACP         HAWTHORN 161KV         455         0.00839         -0.51745         7           IPU-CITY OF MCPHERSON 115KV         259         -0.50838 KACP         HAWTHORN 161KV         36.00118         -0.51744         7           IPU-CITY OF MCPHERSON 115KV         259         -0.50638 AEPW         KINXLEE 138KV         103         -0.0175         -0.50483         7           ISPU-CITY OF MCPHERSON 115KV         258         -0.50638 MEAP         LAYGYMEN         11         -0.00174         -0.50482         7           ISPU-CITY OF MCPHERSON 115KV         258         -0.50638 MIPU <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>7</td></td<>										7
IPPU-CITY OF MCPHERSON 115KV         259         -0.50836         WERE         EVANS ENERGY CENTER 138KV         48.116         0.0006         -0.50896         7           IPPU-CITY OF MCPHERSON 115KV         259         -0.50836 AEPW         FIIZHUGH 161KV         75.9999         -0.0005         -0.50896         -0.50836			259							7
IPPU-CITY OF MCPHERSON 115KV         259         -0.50838 AEPW         FILTPUNCH 161KV         75.99998         -0.00065         -0.50571         7           IPPU-CITY OF MCPHERSON 115KV         259         -0.50838 AEPW         FLINT CREEK 161KV         400         0.00025         -0.50538 AEPW         FLINT CREEK 161KV         400         0.00025         -0.50538 AEPW         FLINT CREEK 161KV         455         0.00839         -0.51475         7           IPPU-CITY OF MCPHERSON 115KV         259         -0.50838 KACP         IAAWTHORN 161KV         398         0.00113         -0.51475         7           IPU-CITY OF MCPHERSON 115KV         259         -0.50838 AEPW         KNOXLEE 138KV         398         0.00173         -0.50463         7           IPU-CITY OF MCPHERSON 115KV         259         -0.50836 AEPW         KNOXLEE 138KV         110         -0.0074         -0.50562         7           IPU-CITY OF MCPHERSON 115KV         259         -0.50636 MEPU         LADY 398V         11         -0.0074         -0.50562         7           IPU-CITY OF MCPHERSON 115KV         259         -0.50636 MEPU         LADY 6004         35         0.00659         -0.51285         7           IPU-CITY OF MCPHERSON 115KV         259         -0.50638 MEPU         LAKE ROAD 15KV         <										7
IBPU_CITY OF MCPHERSON 115KV         259         0.50838         AEVP         ILITI CREEK 161KV         400         0.00025         0.50861         7           BPU_CITY OF MCPHERSON 115KV         259         0.50838         KACP         HAWTHORN 161KV         455         0.00839         0.51745         7           BPU_CITY OF MCPHERSON 115KV         259         0.50638         KACP         IATAN 345KV         356         0.0118         -0.5174         7           BPU_CITY OF MCPHERSON 115KV         259         -0.50638         KACP         IATAN 345KV         366         0.0118         -0.5174         7           BPU_CITY OF MCPHERSON 115KV         259         -0.50638         AEPW         KNOLLE         138         -0.0173         -0.50463         7           BPU_CITY OF MCPHERSON 115KV         259         -0.50638         AEPW         LND13 69KV         11         -0.0074         -0.50463         7           BPU_CITY OF MCPHERSON 115KV         259         -0.50638         MACP         LAVGNE UNIT 345KV         958         0.0079         -0.51426         7           BPU_CITY OF MCPHERSON 115KV         259         -0.50638         MAUV         4.800.0464         -0.5176         7           BPU_CITY OF MCPHERSON 115KV         259										7
IPPU-CITY OF MCPHERSON 115KV         259         -0.50836 KACP         IAWTHORN 161KV'         455         0.00839         -0.51475         7           IPPU-CITY OF MCPHERSON 115KV'         259         -0.50836 KACP         IATAN 34KV'         396         0.0110         -0.51475         7           IPPU-CITY OF MCPHERSON 115KV'         259         -0.50836 KACP         IATAN 34KV'         396         0.0113         -0.50463         7           IPPU-CITY OF MCPHERSON 115KV'         259         -0.50836 KACP         IAKV/SV         11         -0.0074         -0.50562         7           IPU-CITY OF MCPHERSON 115KV'         259         -0.50836 KACP         IAKE ROAD 161KV'         958         0.0079         -0.51426         7           ISPU-CITY OF MCPHERSON 115KV'         259         -0.50636 MIPU         IAKE ROAD 161KV'         958         0.0079         -0.51426         7           ISPU-CITY OF MCPHERSON 115KV'         259         -0.50636 MIPU         IAKE ROAD 34KV'         35         0.00669         -0.51285         7           ISPU-CITY OF MCPHERSON 115KV'         259         -0.50636 MIPU         IAKE ROAD 34KV'         92         0.00669         -0.51285         7           ISPU-CITY OF MCPHERSON 115KV'         259         -0.50636 AEPW         LEBROCK 34K										7
IBPU-CITY OF MCPHERSON 115KV         259         -0.50836         KACP         IATAN 345KV         366         0.01108         -0.51744         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50836         AEPW         KNOXLEE         138KV         103         -0.00173         -0.50453         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50636         AEPW         KNOXLEE         138KV         11         -0.00074         -0.50453         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50636         AECP         LACYONE UNIT 345KV         956         0.0074         -0.50562         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50636         MPU         LAK COAD 161KV         35         0.00059         -0.51285         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50636         MPU         LAK COAD 34KV         32         0.00059         -0.51285         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50636         MERE         LAWRE ROAD 34KV         32         0.00059         -0.51285         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50636         MERE         LAWRERCE ENREGY CENTER 230KV         136         -0.5014										7
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IBPU-CITY OF MCPHERSON 115KV'         259         -0.50838         AEPW         Ika13 69KV'         11         -0.00074         -0.50562         7           BPU-CITY OF MCPHERSON 115KV'         259         -0.50636 KACP         Ika13 69KV'         958         0.0079         -0.51426         7           BPU-CITY OF MCPHERSON 115KV'         259         -0.50636 MPU         LAKE ROAD 161KV'         35         0.00659         -0.51295         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50636 MIPU         LAKE ROAD 34KV'         92         0.00659         -0.51295         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50638 MIPU         LAKE ROAD 34KV'         92         0.00659         -0.51295         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50638 MERE         LAWE ROAD 34KV'         92         0.00659         -0.51295         7           BPU-CITY OF MCPHERSON 115KV'         259         -0.50638 MERE         LAWE ROAD 34KV'         92         0.00669         -0.51295         7           BPU-CITY OF MCPHERSON 115KV'         259         -0.50638 AEPW         LEBROCK 345KV         136         -0.00474         -0.50462         7           BPU-CITY OF MCPHERSON 115KV'         259         -0.50636 KACP         <										7
IBPU-CITY OF MCPHERSON 115KV         259         -0.50836 KACP         LACYGNE UNIT 345KV         958         0.0079         -0.51426         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50836 KACP         LACYGNE UNIT 345KV         958         0.0078         -0.51426         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50836 MIPU         LAKE ROAD 34KV         92         0.00669         -0.51285         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50636 WERE         LAWE ROAD 34KV         92         0.00669         -0.51285         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50636 WERE         LAWERNE ENERGY CENTER 230KV         136 2384         0.01736         -0.52372         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50636 AEPW         LEBROCK 345KV         515         -0.0174         -0.50426         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50636 AEPW         LEBROCK 345KV         515         -0.0174         -0.50426         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50636 AEPW         LEBROCK 345KV         515         -0.0174         -0.5046         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50636 AEPW			259							7
BPU - CITY OF MCPHERSON 115KV'         259         0.50638 MIPU         LAKE ROAD 1611V/         35         0.00659         -0.51285         7           BPU - CITY OF MCPHERSON 115KV'         259         -0.50636 MIPU         LAKE ROAD 1611V/         92         0.00659         -0.51285         7           BPU - CITY OF MCPHERSON 115KV'         259         -0.50636 MIPU         LAKE ROAD 1611V/         92         0.00659         -0.51285         7           BPU - CITY OF MCPHERSON 115KV'         259         -0.50636 MIPU         LAKE ROAD 1611V/         92         0.00659         -0.51285         7           BPU - CITY OF MCPHERSON 115KV'         259         -0.50636 MEPU         LERROCK 345KV         515         -0.00174         -0.50462         7           BPU - CITY OF MCPHERSON 115KV'         259         -0.50636 AEPW         LEBROCK 345KV         515         -0.00174         -0.50462         7           BPU - CITY OF MCPHERSON 115KV'         259         -0.50636 KACP         MARSHALL 161KV'         4         -0.00146         -0.50167         7           BPU - CITY OF MCPHERSON 115KV'         259         -0.50636 KACP         MARSHALL 161KV'         15         -0.00463         -5.5199         7           BPU - CITY OF MCPHERSON 115KV'         259         -0.50636 KACP </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>7</td>										7
IPPU-CITY OF MCPHERSON 115KV         259         -0.50836 MPU         LAKE ROAD 34KV         92         0.00659         -0.51285         7           IPPU-CITY OF MCPHERSON 115KV         259         -0.50836 MPU         LAKE ROAD 34KV         92         0.00659         -0.51285         7           IPPU-CITY OF MCPHERSON 115KV         259         -0.50836 AEPW         LEBROCK 345KV         515         -0.00174         -0.50462         7           IPPU-CITY OF MCPHERSON 115KV         259         -0.50836 AEPW         LEBERNAN 136KV         515         -0.00174         -0.50462         7           IPPU-CITY OF MCPHERSON 115KV         259         -0.50836 AEPW         LEBERNAN 136KV         4         -0.0016         -0.50476         7           IPPU-CITY OF MCPHERSON 115KV         259         -0.50836 AEPW         LEBERNAN 136KV         4         -0.0016         -0.50476         7           IPU-CITY OF MCPHERSON 115KV         259         -0.50836 MCAP         MARSHALL 161KV         15         -0.00486         -0.50141         7           IPU-CITY OF MCPHERSON 115KV         259         -0.50836 MCAP         MARSHALL 161KV         478         -0.00496         -0.50141         7           IPU-CITY OF MCPHERSON 115KV         259         -0.50586 KACP         MANTKALL 161KV										7
BPU - CITY OF MCPHERSON 115KV'         259         -0.50636         WERE         LAWRENCE ENERGY CENTER 230KV'         136.2384         0.01736         -0.52372         7           BPU - CITY OF MCPHERSON 115KV'         259         -0.50636         AEPW         LLEBROCK 346KV'         515         -0.00174         -0.50462         7           BPU - CITY OF MCPHERSON 115KV'         259         -0.50636 AEPW         LLEBROCK 346KV'         4-0.0161         -0.50476         7           BPU - CITY OF MCPHERSON 115KV'         259         -0.50636 AEPW         LLEBROCK 346KV'         4-0.0161         -0.50462         7           BPU - CITY OF MCPHERSON 115KV'         259         -0.50636 AEPW         LLEBROCK 346KV'         4-0.0161         -0.50462         7           BPU - CITY OF MCPHERSON 115KV'         259         -0.50636 KACP         MARSHALL 161KV'         15         0.00483         -0.51099         7           BPU - CITY OF MCPHERSON 115KV'         259         -0.50636 KACP         MARSHALL 161KV'         478         -0.00486         -0.50141         7           BPU - CITY OF MCPHERSON 115KV'         259         -0.50636 KACP         MONTROSE 161KV'         478         -0.00486         -0.50141         7										7
IBPU-CITY OF MCPHERSON 115KV         259         -0.50838         AEPW         LEBROCK 345KV         515         -0.00174         -0.50462         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50838         AEPW         LIEBROCK 345KV         4         -0.0016         -0.50462         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50838         AEPW         LIEBROAK 345KV         4         -0.0016         -0.50462         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50638         KACP         MARSHALL 161KV         15         0.00463         -0.51099         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50638         KACP         MARSHALL 161KV         15         0.00463         -0.51049         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50638         KACP         MARSHALL 161KV         15         0.00463         -0.51041         7           BPU-CITY OF MCPHERSON 115KV         259         -0.50638         KACP         MONTROSE 161KV         221.828         0.0075         -0.51341         7										7
BPU - CITY OF MCPHERSON 115KV'         259         -0.50636 AEPW         LIEBERMAN 138KV'         4         -0.0016         -0.50476         7           ISPU - CITY OF MCPHERSON 115KV'         259         -0.50636 KACP         MARSHALL 161KV'         15         0.00463         -0.51099         7           ISPU - CITY OF MCPHERSON 115KV'         259         -0.50636 KACP         MACLAIN 138KV'         47         -0.00495         -0.5014         7           ISPU - CITY OF MCPHERSON 115KV'         259         -0.50636 KACP         MACCLAIN 138KV'         478         -0.00495         -0.5014         7           ISPU - CITY OF MCPHERSON 115KV'         259         -0.50636 KACP         MARSHALL 161KV'         278.28         -0.0075         -0.5014         7										7
BPU - CITY OF MCPHERSON 115KV         259         -0.50636 KACP         MARSHALL 161KV         15         0.00463         -0.51099         7           BPU - CITY OF MCPHERSON 115KV         259         -0.50636 OKGE         MCCLAIN 138KV         478         -0.00496         -0.50141         7           BPU - CITY OF MCPHERSON 115KV         259         -0.50636 OKGE         MCCLAIN 138KV         478         -0.00496         -0.50141         7           BPU - CITY OF MCPHERSON 115KV         259         -0.50636 KACP         MONTROSE 161KV         221.828         0.0075         -0.51366         7							515			7
BPU - CITY OF MCPHERSON 115KV         259         -0.50636         OKGE         MCCLAIN 138KV'         478         -0.00495         -0.50141         7           BPU - CITY OF MCPHERSON 115KV         259         -0.50636         KACP         MONTROSE 161KV'         221.828         0.0075         -0.51386         7			259				4			7
BPU - CITY OF MCPHERSON 115KV 259 -0.50636 KACP MONTROSE 161KV 221.828 0.0075 -0.51386 7										7
			259							7
BPU - CITY OF MCPHERSON 115KV'         259         -0.50636         OKGEE         345KV'         1516         -0.00132         -0.50504         7							221.828			7
		'BPU - CITY OF MCPHERSON 115KV'	259	-0.50636	OKGE	'MUSKOGEE 345KV'	1516	-0.00132	-0.50504	7

WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50636 KACY	'NEARMAN 161KV'	16 0.00953 -0.51589
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50636 KACY	'NEARMAN 20KV'	220 0.00953 -0.51589
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50636 AEPW	'NORTHEASTERN STATION 138KV'	302 -0.00036 -0.506
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.50636 AEPW	'NORTHEASTERN STATION 345KV'	600 -0.00005 -0.50631
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.50636 AEPW	OEC 345KV	419 -0.00089 -0.50547
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.50636 OKGE	OPPA-KAW 69KV	11.60788 -0.00275 -0.50361
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50636 OKGE	'ONE OAK 345KV'	28 -0.00434 -0.50202
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50636 EMDE	'OZARK BEACH 161KV'	16 0.00145 -0.50781
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50636 AEPW	'PIRKEY GENERATION 138KV'	450 -0.00174 -0.50462
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.50636 KACY	QUINDARO 161KV	116.1971 0.00948 -0.51584
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50636 KACY	'QUINDARO 69KV'	72 0.00945 -0.51581
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.50636 OKGE	'REDBUD 345KV'	250 -0.00394 -0.50242
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50636 AEPW	'RIVERSIDE STATION 138KV'	134 -0.00122 -0.50514
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50636 EMDE	'RIVERTON 161KV'	38 0.00185 -0.50821
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50636 EMDE	'RIVERTON 69KV'	44.2151 0.0018 -0.50816
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50636 OKGE	SEMINOLE 138KV	293.1916 -0.0046 -0.50176
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50636 OKGE	SEMINOLE 345KV	489 -0.00448 -0.50188
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.50636 MIPU	SIBLEY 161KV	228.9858 0.00785 -0.51421
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50636 MIPU	SIBLEY 69KV	45.99999 0.00797 -0.51433
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50636 OKGE	'SMITH COGEN 138KV'	120 -0.0048 -0.50156
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50636 OKGE	'SOONER 138KV'	505 -0.00312 -0.50324
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50636 OKGE	SOONER 345KV	513 -0.00343 -0.50293
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.50636 MIPU	SOUTH HARPER 161KV	35.6098 0.00924 -0.5156
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.50636 AEPW	SOUTHWESTERN STATION 138KV	29 -0.00928 -0.49708
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50636 EMDE	STATE LINE 161KV	333.8735 0.00185 -0.50821
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50636 WERE	'WACO 138KV'	17.93 -0.00415 -0.50221
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50636 AEPW	WELSH 345KV	975.0001 -0.00196 -0.5044
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.50636 AEPW	WILKES 138KV	137.2888 -0.0018 -0.50456
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.50636 AEPW	WILKES 345KV	136.729 -0.00177 -0.50459
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.50636 WERE	COLBY 115KV	7.326186 -0.07635 -0.43001
WERE	'HUTCHINSON ENERGY CENTER 115KV'		'ARIES 161KV'	300 0.00861 -0.40959
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40098 EMDE	'ASBURY 161KV'	191 0.00244 -0.40342
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40098 WERE	'CHANUTE 69KV'	34.818 0.00267 -0.40365
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40098 WERE	'CITY OF BURLINGTON 69KV'	20.551 0.00483 -0.40581
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40098 WERE	CITY OF IOLA 69KV	14.565 0.00305 -0.40403
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40098 WERE	CLR 1 .575 34KV	58.9968 0.00239 -0.40337
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40098 WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.95 0.00483 -0.40581
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40098 EMDE	'ELK RIVER 345KV'	150 0.00239 -0.40337
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40098 KACP	'HAWTHORN 161KV'	455 0.00839 -0.40937
WERE	HUTCHINSON ENERGY CENTER 115KV	601 -0.40098 KACP	'IATAN 345KV'	396 0.01108 -0.41206
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40098 WERE	JEFFREY ENERGY CENTER 230KV	470 0.02795 -0.42893
WERE	HUTCHINSON ENERGY CENTER 115KV	601 -0.40098 WERE	JEFFREY ENERGY CENTER 345KV	940 0.02925 -0.43023
WERE	HUTCHINSON ENERGY CENTER 115KV	601 -0.40098 KACP	'LACYGNE UNIT 345KV'	958 0.0079 -0.40888
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40098 MIPU	'LAKE ROAD 161KV'	35 0.00659 -0.40757
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40098 MIPU	'LAKE ROAD 34KV'	92 0.00659 -0.40757
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40098 WERE	'LAWRENCE ENERGY CENTER 230KV'	136.2384 0.01736 -0.41834
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40098 KACP	'MARSHALL 161KV'	15 0.00463 -0.40561
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40098 KACP	MONTROSE 161KV	221.828 0.0075 -0.40848
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40098 KACY	NEARMAN 161KV	16 0.00953 -0.41051
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40098 KACY	'NEARMAN 20KV'	220 0.00953 -0.41051
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40098 KACY	'QUINDARO 161KV'	116.1971 0.00948 -0.41046
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40098 KACY	'QUINDARO 69KV'	72 0.00945 -0.41043
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40098 MIPU	SIBLEY 161KV	228.9858 0.00785 -0.40883
WERE	HUTCHINSON ENERGY CENTER 115KV	601 -0.40098 MIPU	SIBLEY 69KV	45.99999 0.00797 -0.40895
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40098 WERE	'SMOKEY HILLS 34KV'	152 0.02945 -0.43043
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40098 MIPU	SOUTH HARPER 161KV	35.6098 0.00924 -0.41022
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67 -0.40079 MIPU	'ARIES 161KV'	300 0.00861 -0.4094
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67 -0.40079 WERE	'CHANUTE 69KV'	34.818 0.00267 -0.40346
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67 -0.40079 WERE	'CITY OF BURLINGTON 69KV'	20.551 0.00483 -0.40562
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67 -0.40079 WERE	CITY OF IOLA 69KV	14.565 0.00305 -0.40384
WERE	HUTCHINSON ENERGY CENTER 69KV	67 -0.40079 WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.95 0.00483 -0.40562
WERE	HUTCHINSON ENERGY CENTER 69KV	67 -0.40079 WERE	'HAWTHORN 161KV'	455 0.00839 -0.40362
	'HUTCHINSON ENERGY CENTER 69KV'	67 -0.40079 KACP	'IATAN 345KV'	396 0.01108 -0.41187
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67 -0.40079 WERE	JEFFREY ENERGY CENTER 230KV	470 0.02795 -0.42874

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Maximum Decrement and Maximum Increment Factor = Source GSF - Sink GSF Redispatch Amount = Relief Amount / Factor

Upgrade:	WICHITA - RENO 345KV						
Limiting Facility:	NORTH AMERICAN PHILIPS - NORTH AMERICAN PHILIPS	JUNCTION (SOUT	H) 115KV CKT 1				
Direction:	From->To						
Line Outage:	EAST MCPHERSON - SUMMIT 230KV CKT 1						
Flowgate:	57372573741568725687312208SP						
Date Redispatch Needed:	Starting 2008 6/1 - 10/1 Until EOC						
Season Flowgate Identified:	2008 Summer Peak						
		Aggregate Relief					
Reservation	Relief Amount	Amount					
116150	i 10.5	13.9					

1162675	3.4	13.9						
			Sink					Aggregate
		Maximum	Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		'ABILENE ENERGY CENTER 115KV'	40	0.11552		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		'JEFFREY ENERGY CENTER 230KV'	470	0.02797	-0.5343	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633 WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02927	-0.5356	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		'LAWRENCE ENERGY CENTER 230KV'	251.3459	0.01737	-0.5237	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		'SMOKEY HILLS 34KV'	152	0.02948		26
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633 WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.01891	-0.52524	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		'AES 161KV'	320	-0.00089		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		'ARIES 161KV'	300	0.0086	-0.51493	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633 AEPW	'ARSENAL HILL 69KV'	11.21387	-0.00159	-0.50474	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633 EMDE	'ASBURY 161KV'	191	0.00244	-0.50877	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		'BULL CREEK 161KV'	308	0.00986	-0.51619	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		'CHANUTE 69KV'	55.637	0.00268	-0.50901	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633 WERE	'CITY OF AUGUSTA 69KV'	24	0.00141	-0.50774	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		'CITY OF BURLINGTON 69KV'	34.061	0.00474	-0.51107	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		'CITY OF ERIE 69KV'	23.374	0.00268	-0.50901	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633 KACP	'CITY OF HIGGINSVILLE 69KV'	35	0.00657	-0.5129	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633 WERE	CITY OF IOLA 69KV	24.471	0.00308	-0.50941	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		'CITY OF WINFIELD 69KV'	26.77	-0.00107	-0.50526	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		'CLR_1 .575 34KV'	23.001	0.0023	-0.50863	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633 WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	0.00474	-0.51107	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		'COGENTRIX 345KV'	200	-0.00127	-0.50506	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		'EASTMAN 138KV'	355	-0.00177	-0.50456	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633 EMDE	'ELK RIVER 345KV'	150	0.0023	-0.50863	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633 WERE	'EVANS ENERGY CENTER 138KV'	305	0.00063	-0.50696	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633 AEPW	'FITZHUGH 161KV'	126	-0.00068	-0.50565	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633 AEPW	'FLINT CREEK 161KV'	428	0.00023	-0.50656	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633 AEPW	'FULTON 115KV'	24.99999	-0.00165	-0.50468	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		'GREENWOOD 161KV'	169.885	0.00855	-0.51488	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633 KACP	'HAWTHORN 161KV'	769	0.00837	-0.5147	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633 KACP	'IATAN 345KV'	396	0.01113	-0.51746	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		'KNOXLEE 138KV'	225	-0.00176		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		'L&D13 69KV'	11	-0.00077	-0.50556	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		'LACYGNE UNIT 345KV'	958	0.0078	-0.51413	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633 MIPU	'LAKE ROAD 161KV'	35	0.00658	-0.51291	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		'LAKE ROAD 34KV'	92	0.00658	-0.51291	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633 WERE	'LANG 7 345 345KV'	310	0.01542	-0.52175	27

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WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633		'LARUSSEL 161KV'	116 0.00196 -0.50829	27
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50633		'LEBROCK 345KV'	465 -0.00177 -0.50456	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633		'LIEBERMAN 138KV'	73.99999 -0.00162 -0.50471	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633		'MARSHALL 161KV'	15 0.00462 -0.51095	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633		'MONTROSE 161KV'	352.0817 0.0075 -0.51383	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633	OKGE	'MUSKOGEE 161KV'	166 -0.00108 -0.50525	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633	OKGE	'MUSKOGEE 345KV'	1516 -0.00135 -0.50498	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633	AEPW	'NARROWS 69KV'	22 -0.00227 -0.50406	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633	KACY	'NEARMAN 161KV'	77 0.00952 -0.51585	27
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50633	KACY	'NEARMAN 20KV'	220 0.00952 -0.51585	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633	AEPW	'NORTHEASTERN STATION 138KV'	500 -0.00038 -0.50595	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633	AEPW	'NORTHEASTERN STATION 345KV'	645 -0.00008 -0.50625	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633	AEPW	'OEC 345KV'	369 -0.00092 -0.50541	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633	EMDE	'OZARK BEACH 161KV'	16 0.00144 -0.50777	27
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50633	KACP	PAOLA COMBUSTION TURBINES 161KV	63.0542 0.00862 -0.51495	27
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50633	AEPW	'PIRKEY GENERATION 138KV'	490 -0.00176 -0.50457	27
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50633	KACY	QUINDARO 161KV	135.2048 0.00947 -0.5158	27
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50633	KACY	QUINDARO 69KV	140 0.00944 -0.51577	27
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50633	AEPW	'RIVERSIDE STATION 138KV'	640 -0.00125 -0.50508	27
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50633		'RIVERSIDE STATION 156KV	88.89612 0.00125 -0.50506	27
WERE	BPU - CITY OF MCPHERSON 115KV		-0.50633	EMDE	'RIVERTON 69KV'	41.92348 0.00179 -0.50812	27
WERE		259 259	-0.50633			231.6823 0.00783 -0.51416	27
	BPU - CITY OF MCPHERSON 115KV				SIBLEY 161KV		
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50633	MIPU	SIBLEY 69KV	45.99999 0.00795 -0.51428	27
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50633	MIPU	SOUTH HARPER 161KV	315 0.00924 -0.51557	27
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50633	EMDE	STATE LINE 161KV	503 0.00183 -0.50816	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633	AEPW	'TULSA POWER STATION 138KV'	186 -0.00116 -0.50517	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633	AEPW	'WELSH 345KV'	1044 -0.00199 -0.50434	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633	AEPW	'WILKES 138KV'	350.9901 -0.00183 -0.5045	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633	AEPW	'WILKES 345KV'	311 -0.0018 -0.50453	27
WERE	'HUTCHINSON ENERGY CENTER 115KV'	304.6875	-0.40095	WERE	'ABILENE ENERGY CENTER 115KV'	40 0.11552 -0.51647	27
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40076	WERE	'ABILENE ENERGY CENTER 115KV'	40 0.11552 -0.51628	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633	WEPL	'CLIFTON 115KV'	58.49084 -0.00575 -0.50058	28
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633	AEPW	COMANCHE 138KV	160 -0.00959 -0.49674	28
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633	AEPW	COMANCHE 69KV	63 -0.00945 -0.49688	28
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633		'GILL ENERGY CENTER 138KV'	155 -0.00461 -0.50172	28
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633	OKGE	'HORSESHOE LAKE 138KV'	851.5 -0.00444 -0.50189	28
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633	OKGE	'HORSESHOE LAKE 69KV'	16 -0.00436 -0.50197	28
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633	OKGE	'MCCLAIN 138KV'	478 -0.00492 -0.50141	28
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633	OKGE	'MUSTANG 138KV'	365.5 -0.00484 -0.50149	28
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50633	OKGE	'MUSTANG 69KV'	106 -0.00487 -0.50146	28
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633	OKGE	'OMPA-KAW 69KV'	22.98392 -0.00275 -0.50358	28
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50633	OKGE	'OMPA-PONCA CITY 69KV'	157.2592 -0.00275 -0.50358	28
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50633	OKGE	ONE OAK 345KV	300 -0.00437 -0.50196	28
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50633	OKGE	'REDBUD 345KV'	250 -0.00397 -0.50236	28
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50633	OKGE	SEMINOLE 138KV	485.0313 -0.00463 -0.5017	28
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50633	OKGE	SEMINOLE 345KV	996 -0.00452 -0.50181	28
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50633	OKGE	SMITH COGEN 138KV	120 -0.00483 -0.5015	28
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50633	OKGE	SOONER 138KV	505 -0.00313 -0.5032	28
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50633	OKGE	SOONER 138KV	513 -0.00313 -0.5032	28
WERE	BPU - CITY OF MCPHERSON 115KV BPU - CITY OF MCPHERSON 115KV	259			SOUNER 345KV SOUTHWESTERN STATION 138KV	257 -0.00345 -0.50288	28
WERE	BPU - CITY OF MCPHERSON 115KV BPU - CITY OF MCPHERSON 115KV	259	-0.50633	OKGE	TINKER 5G 138KV	31.99805 -0.00466 -0.50167	28
WERE		259	-0.50633		WACO 138KV	31.99805 -0.00466 -0.50167 17.967 -0.00407 -0.50226	28
	BPU - CITY OF MCPHERSON 115KV						
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50633	AEPW	WELEETKA 138KV	84 -0.00263 -0.5037	28
WERE	HUTCHINSON ENERGY CENTER 115KV	304.6875	-0.40095		JEFFREY ENERGY CENTER 230KV	470 0.02797 -0.42892	32
WERE	'HUTCHINSON ENERGY CENTER 115KV'	304.6875	-0.40095		JEFFREY ENERGY CENTER 345KV	940 0.02927 -0.43022	32
WERE	'HUTCHINSON ENERGY CENTER 115KV'	304.6875	-0.40095		'SMOKEY HILLS 34KV'	152 0.02948 -0.43043	32
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40076		'JEFFREY ENERGY CENTER 230KV'	470 0.02797 -0.42873	32
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40076		'JEFFREY ENERGY CENTER 345KV'	940 0.02927 -0.43003	32
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40076		'SMOKEY HILLS 34KV'	152 0.02948 -0.43024	32
WERE	'HUTCHINSON ENERGY CENTER 115KV'	304.6875	-0.40095		'LANG 7 345 345KV'	310 0.01542 -0.41637	33
WERE	'HUTCHINSON ENERGY CENTER 115KV'	304.6875	-0.40095		'LAWRENCE ENERGY CENTER 230KV'	251.3459 0.01737 -0.41832	33
	'HUTCHINSON ENERGY CENTER 115KV'	304.6875	-0.40095	WERE	TECUMSEH ENERGY CENTER 115KV	108 0.01891 -0.41986	33
WERE							
WERE WERE WERE	HUTCHINSON ENERGY CENTER 69KV HUTCHINSON ENERGY CENTER 69KV	67	-0.40076	WERE	'LANG 7 345 345KV' 'LAWRENCE ENERGY CENTER 230KV'	310 0.01542 -0.41618 251.3459 0.01737 -0.41813	33 33

Maximum Decrement and Maximum Increment Factor = Source GSF - Sink GSF Redispatch Amount = Relief Amount / Factor

Upgrade:	WICHITA - RENO 345KV			
Limiting Facility:	NORTH AMERICAN PHILIPS - NORTH AMERICAN PHILIPS	JUNCTION (SOUT	H) 115KV (	CKT 1
Direction:	From->To			
Line Outage:	EAST MCPHERSON - SUMMIT 230KV CKT 1			
Flowgate:	57372573741568725687314208WP			
Date Redispatch Needed:	Starting 2008 12/1 - 4/1 Until EOC			
Season Flowgate Identified:	2008 Winter Peak			
		Aggregate Relief		
Reservation	Relief Amount	Amount		
1161506	8.1	10.3		
1162675	2.2	10.3		
				Sink
		Manufana ann		Control

		Maximum		Sink Control		Maximum			Aggregate Redispatch
Source Control Area	Source		GSF	Area	Sink		GSF	Factor	Amount (MW)
WERE	BPU - CITY OF MCPHERSON 115KV	259			JEFFREY ENERGY CENTER 230KV	470	0.02785	-0.5342	
WERE	BPU - CITY OF MCPHERSON 115KV	259			JEFFREY ENERGY CENTER 345KV	909.0583	0.02918	-0.53553	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50635	WERE	SMOKEY HILLS 34KV	51	0.02946	-0.53581	19
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50635	AEPW	'AEP-CT0113.8 161KV'	85	0.00018	-0.50653	8 20
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50635	AEPW	'AEP-CT0213.8 161KV'	85	0.00018	-0.50653	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50635	AEPW	'AEP-CT0313.8 161KV'	85	0.00018	-0.50653	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50635	AEPW	'AEP-CT0413.8 161KV'	65	0.00018	-0.50653	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50635	OKGE	'AES 161KV'	320	-0.00087	-0.50548	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50635	EMDE	'ASBURY 161KV'	191	0.00243	-0.50878	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'CHANUTE 69KV'	34.903	0.00266	-0.50901	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		WERE	'CITY OF AUGUSTA 69KV'	15	0.00138	-0.50773	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50635	WERE	'CITY OF BURLINGTON 69KV'	20.393	0.00472	-0.51107	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'CITY OF IOLA 69KV'	19.902	0.00306	-0.50941	20
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50635	WERE	'CITY OF WINFIELD 69KV'	8.724999	-0.00108	-0.50527	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'CLR_1 .575 34KV'	61.9956	0.00228	-0.50863	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'CLR_2 .575 34KV'	100	0.00228	-0.50863	20
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50635	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.61	0.00472	-0.51107	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50635	AEPW	COGENTRIX 345KV	200	-0.00126	-0.50509	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50635	AEPW	'EASTMAN 138KV'	355	-0.00175	-0.5046	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50635	EMDE	'ELK RIVER 345KV'	150	0.00228	-0.50863	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'FITZHUGH 161KV'	109	-0.00066	-0.50569	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50635	AEPW	'FLINT CREEK 161KV'	400	0.00023	-0.50658	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'HAWTHORN 161KV'	455	0.00835	-0.5147	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'IATAN 345KV'	396	0.0111	-0.51745	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'KNOXLEE 138KV'	42	-0.00174	-0.50461	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'L&D13 69KV'	11	-0.00076	-0.50559	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50635	KACP	'LACYGNE UNIT 345KV'	958	0.00777	-0.51412	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'LAKE ROAD 161KV'	35	0.00658	-0.51293	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50635	MIPU	'LAKE ROAD 34KV'	92	0.00658	-0.51293	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'LANG 7 345 345KV'	380	0.01535	-0.5217	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'LAWRENCE ENERGY CENTER 230KV'	144.9592	0.0173	-0.52365	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'LEBROCK 345KV'	315	-0.00175	-0.5046	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'MARSHALL 161KV'	15	0.00461	-0.51096	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'MONTROSE 161KV'	322.8412	0.00748	-0.51383	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'MUSKOGEE 345KV'	1516	-0.00134	-0.50501	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50635	KACY	'NEARMAN 161KV'	18.16388	0.0095	-0.51585	20

WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50635 KACY	'NEARMAN 20KV'	220	0.0095 -0.51585	20
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50635 AEPW		112	-0.00038 -0.50597	20
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50635 AEPW	'NORTHEASTERN STATION 345KV'	600	-0.00008 -0.50627	20
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50635 AEPW	'OEC 345KV'	219	-0.00091 -0.50544	20
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.50635 EMDE	'OZARK BEACH 161KV'	16	0.00143 -0.50778	20
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50635 AEPW	'PIRKEY GENERATION 138KV'	450	-0.00174 -0.50461	20
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.50635 KACY	QUINDARO 161KV	116.9295	0.00945 -0.5158	20
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.50635 KACY	QUINDARO 69KV	72	0.00942 -0.51577	20
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.50635 EMDE	'RIVERTON 161KV'	38	0.00183 -0.50818	20
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50635 EMDE	'RIVERTON 69KV'	44.80504	0.00178 -0.50813	20
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50635 MIPU	'SIBLEY 161KV'	231.2235	0.00782 -0.51417	20
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50635 MIPU	'SIBLEY 69KV'	45.99999	0.00793 -0.51428	20
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50635 MIPU	SOUTH HARPER 161KV	176.4037	0.00921 -0.51556	20
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.50635 EMDE	STATE LINE 161KV	356,7808	0.00183 -0.50818	20
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50635 AEPW		975.0001	-0.00197 -0.50438	20
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.50635 AEPW		74.19978	-0.00181 -0.50454	20
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.50635 AEPW		100.9279	-0.00178 -0.50457	20
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.50635 AEPW		160	-0.00955 -0.4968	21
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.50635 AEPW		63	-0.0094 -0.49695	21
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50635 OKGE		478	-0.0049 -0.50145	21
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50635 OKGE	'OMPA-KAW 69KV'	19.68717	-0.00274 -0.50361	21
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50635 OKGE	'OMPA-PONCA CITY 69KV'	19.62857	-0.00274 -0.50361	21
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.50635 OKGE	'REDBUD 345KV'	200	-0.00395 -0.5024	21
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50635 OKGE	SEMINOLE 138KV	453.8043	-0.0046 -0.50175	21
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.50635 OKGE		590.52	-0.00449 -0.50186	21
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.50635 OKGE	SMITH COGEN 138KV	120	-0.00481 -0.50154	21
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.50635 OKGE	SOONER 138KV	505	-0.00312 -0.50323	21
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.50635 OKGE		513	-0.00343 -0.50292	21
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50635 AEPW		29	-0.00919 -0.49716	21
WERE	'BPU - CITY OF MCPHERSON 115KV'	259 -0.50635 WERE		17.414	-0.00411 -0.50224	21
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40097 WERE		470	0.02785 -0.42882	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40097 WERE	'JEFFREY ENERGY CENTER 345KV'	909.0583	0.02918 -0.43015	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40097 WERE	'SMOKEY HILLS 34KV'	51	0.02946 -0.43043	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67 -0.40057 WERE		470	0.02785 -0.42842	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67 -0.40057 WERE		909.0583	0.02918 -0.42975	24
WERE	HUTCHINSON ENERGY CENTER 69KV	67 -0.40057 WERE		51	0.02946 -0.43003	24
WERE	BPU - CITY OF MCPHERSON 115KV	259 -0.50635 WERE		75	-0.09305 -0.4133	24
				20.393		
WERE	HUTCHINSON ENERGY CENTER 115KV					25
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40097 WERE		19.61	0.00472 -0.40569	25
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40097 KACP	'HAWTHORN 161KV'	455	0.00835 -0.40932	25
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40097 KACP	'IATAN 345KV'	396	0.0111 -0.41207	25
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40097 KACP	'LACYGNE UNIT 345KV'	958	0.00777 -0.40874	25
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40097 MIPU	'LAKE ROAD 161KV'	35	0.00658 -0.40755	25
WERE	HUTCHINSON ENERGY CENTER 115KV	601 -0.40097 MIPU	'LAKE ROAD 34KV'	92	0.00658 -0.40755	25
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40097 WERE		380	0.01535 -0.41632	25
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40097 WERE		144.9592	0.0173 -0.41827	25
WERE	HUTCHINSON ENERGY CENTER 115KV	601 -0.40097 KACP	'MARSHALL 161KV'	144.9592	0.00461 -0.40558	25
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40097 KACP	'MONTROSE 161KV'	322.8412	0.00748 -0.40845	25
WERE	HUTCHINSON ENERGY CENTER 115KV	601 -0.40097 KACY	'NEARMAN 161KV'	18.16388	0.0095 -0.41047	25
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40097 KACY	'NEARMAN 20KV'	220	0.0095 -0.41047	25
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40097 KACY	'QUINDARO 161KV'	116.9295	0.00945 -0.41042	25
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40097 KACY	'QUINDARO 69KV'	72	0.00942 -0.41039	25
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40097 MIPU	SIBLEY 161KV	231.2235	0.00782 -0.40879	25
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40097 MIPU	SIBLEY 69KV	45,99999	0.00793 -0.4089	25
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601 -0.40097 MIPU	SOUTH HARPER 161KV	176.4037	0.00921 -0.41018	25
WERE	HUTCHINSON ENERGY CENTER 69KV	67 -0.40057 WERE		20.393	0.00472 -0.40529	25
WERE	HUTCHINSON ENERGY CENTER 69KV	67 -0.40057 WERE		19.61	0.00472 -0.40529	25
						25
WERE	HUTCHINSON ENERGY CENTER 69KV	67 -0.40057 KACP	'HAWTHORN 161KV'	455	0.00835 -0.40892	25
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67 -0.40057 KACP	'IATAN 345KV'	396	0.0111 -0.41167	25
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67 -0.40057 KACP	'LACYGNE UNIT 345KV'	958	0.00777 -0.40834	25
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67 -0.40057 MIPU	'LAKE ROAD 161KV'	35	0.00658 -0.40715	25
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67 -0.40057 MIPU	'LAKE ROAD 34KV'	92	0.00658 -0.40715	25
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67 -0.40057 WERE	'LANG 7 345 345KV'	380	0.01535 -0.41592	25
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67 -0.40057 WERE		144.9592	0.0173 -0.41787	25

Maximum Decrement and Maximum Increment Factor = Source GSF - Sink GSF Redispatch Amount = Relief Amount / Factor

Upgrade: Limiting Facility:	YOAKUM COUNTY INTERCHANGE 230/115KV TRANSFOR YOAKUM COUNTY INTERCHANGE 230/115KV TRANSFOR								
Direction:	To->From								
Line Outage:	MUSTANG STATION 230/115KV TRANSFORMER CKT 1								
Flowgate:	51890518911519695196613107SP								
Date Redispatch Needed:	6/1/07 - 10/1/07								
	2007 Summer Peak								
occoorritiongate identified.	2007 Gammor F dak	Aggregate Relief	1						
Reservation	Relief Amount	Amount							
1162675		6.1	-						
1102010	0.1	0.		Sink					Aggregate
		Maximum		Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW
SPS	CUNNINGHAM 115KV	51,42041			'MUSTANG 230KV'	310	0.15538	-0.21545	
SPS	CUNNINGHAM 115KV	51,42041			'MUSTG5 118.0_230KV'	50		-0.21545	
SPS	'MADOX 115KV'	75			'MUSTANG 230KV'	310	0.15538	-0.21733	1
SPS	'MADOX 115KV'	75			'MUSTG5 118.0 230KV'	50	0.15538	-0.21733	
SPS	'LP-HOLL2 69KV'	132			'MUSTANG 230KV'	310	0.15538	-0.16819	
SPS	'LP-HOLL2 69KV'	132			'MUSTG5 118.0 230KV'	50	0.15538	-0.16819	
SPS	'LP-MACK2 69KV'	20			'MUSTANG 230KV'	310	0.15538	-0.16837	
SPS	LP-MACK2 69KV	20			'MUSTG5 118.0_230KV'	50	0.15538	-0.16837	
SPS	'CARLSBAD 69KV'	18	-0.00733	SPS	'MUSTANG 230KV'	310	0.15538	-0.16271	
SPS	'CARLSBAD 69KV'	18			'MUSTG5 118.0 230KV'	50	0.15538	-0.16271	
AEPW	'AEP-CT0113.8 161KV'	85			'MUSTANG 230KV'	310	0.15538	-0.15553	
AEPW	'AEP-CT0113.8 161KV'	85			'MUSTG5 118.0 230KV'	50	0.15538	-0.15553	
AEPW	'AEP-CT0213.8 161KV'	85			'MUSTANG 230KV'	310	0.15538	-0.15553	
AEPW	'AEP-CT0213.8 161KV'	85	-0.00015	SPS	'MUSTG5 118.0 230KV'	50	0.15538	-0.15553	
AEPW	'AEP-CT0313.8 161KV'	85			'MUSTANG 230KV'	310	0.15538	-0.15553	
AEPW	'AEP-CT0313.8 161KV'	85	-0.00015	SPS	'MUSTG5 118.0 230KV'	50	0.15538	-0.15553	
AEPW	'AEP-CT0413.8 161KV'	85			'MUSTANG 230KV'	310		-0.15553	
AEPW	'AEP-CT0413.8 161KV'	85	-0.00015	SPS	'MUSTG5 118.0 230KV'	50	0.15538	-0.15553	
AEPW	'AEP-CT0513.8 161KV'	85			'MUSTANG 230KV'	310	0.15538	-0.15553	
AEPW	'AEP-CT0513.8 161KV'	85	-0.00015	SPS	'MUSTG5 118.0 230KV'	50	0.15538	-0.15553	
AEPW	'AEP-CT0613.8 161KV'	85	-0.00015	SPS	'MUSTANG 230KV'	310	0.15538	-0.15553	
AEPW	'AEP-CT0613.8 161KV'	85			'MUSTG5 118.0 230KV'	50	0.15538	-0.15553	
AEPW	'AH-CC_C118.0 138KV'	150	-0.00021	SPS	'MUSTANG 230KV'	310	0.15538	-0.15559	
AEPW	'AH-CC_C118.0 138KV'	150		SPS	'MUSTG5 118.0 230KV'	50	0.15538	-0.15559	
AEPW	'AH-CC_C218.0 138KV'	150	-0.00021	SPS	'MUSTANG 230KV'	310	0.15538	-0.15559	
AEPW	'AH-CC_C218.0 138KV'	150	-0.00021	SPS	'MUSTG5 118.0 230KV'	50	0.15538	-0.15559	
AEPW	'AH-CC_ST18.0 138KV'	250	-0.00021	SPS	'MUSTANG 230KV'	310		-0.15559	
AEPW	'AH-CC_ST18.0 138KV'	250			'MUSTG5 118.0 230KV'	50	0.15538	-0.15559	
AEPW	'ARSENAL HILL 69KV'	75			'MUSTANG 230KV'	310	0.15538	-0.15559	
AEPW	'ARSENAL HILL 69KV'	75	-0.00021	SPS	'MUSTG5 118.0 230KV'	50	0.15538	-0.15559	
WEPL	'BELOIT 115KV'	16.6	0.00065	SPS	'MUSTANG 230KV'	310	0.15538	-0.15473	
WEPL	'BELOIT 115KV'	16.6			'MUSTG5 118.0 230KV'	50	0.15538	-0.15473	
AEPW	'COGENTRIX 345KV'	129	-0.00025	SPS	'MUSTANG 230KV'	310	0.15538	-0.15563	
AEPW	'COGENTRIX 345KV'	129	-0.00025	SPS	'MUSTG5 118.0 230KV'	50	0.15538	-0.15563	
AEPW	'EASTMAN 138KV'	330.01	-0.00023	SPS	'MUSTANG 230KV'	310	0.15538	-0.15561	
AEPW	'EASTMAN 138KV'	330.01	-0.00023	SPS	'MUSTG5 118.0 230KV'	50	0.15538	-0.15561	
AEPW	FITZHUGH 161KV	95,00001	-0.00016	202	'MUSTANG 230KV'	310	0.15538	-0.15554	

15014/		05 00001	0.00040.000	NULOTOS 440.0. 00010/	50	0.45500 0.45554	
AEPW	'FITZHUGH 161KV'	95.00001	-0.00016 SPS	'MUSTG5 118.0 230KV'	50	0.15538 -0.15554	39
AEPW	'FULTON 115KV'	32.99999	-0.00022 SPS	'MUSTANG 230KV'	310		39
AEPW	'FULTON 115KV'	32.99999		'MUSTG5 118.0 230KV'	50	0.15538 -0.1556	39
WEPL	'HARPER 138KV'	17.21		'MUSTANG 230KV'	310	0.15538 -0.15485	39
WEPL	'HARPER 138KV'	17.21	0.00053 SPS	'MUSTG5 118.0 230KV'	50	0.15538 -0.15485	39
AEPW	'HEMPCOAL24.0 138KV'	608		'MUSTANG 230KV'	310	0.15538 -0.15564	39
AEPW	'HEMPCOAL24.0 138KV'	608	-0.00026 SPS	'MUSTG5 118.0 230KV'	50	0.15538 -0.15564	39
AEPW	'KIOWA 345KV'	1348	-0.00051 SPS	'MUSTANG 230KV'	310	0.15538 -0.15589	39
AEPW	'KIOWA 345KV'	1348	-0.00051 SPS	'MUSTG5 118.0 230KV'	50	0.15538 -0.15589	39
AEPW	'KNOXLEE 138KV'	166.8906	-0.00023 SPS	'MUSTANG 230KV'	310	0.15538 -0.15561	39
AEPW	'KNOXLEE 138KV'	166.8906	-0.00023 SPS	'MUSTG5 118.0 230KV'	50	0.15538 -0.15561	39
AEPW	'L&D13 69KV'	13	-0.00017 SPS	'MUSTANG 230KV'	310	0.15538 -0.15555	39
AEPW	'L&D13 69KV'	13	-0.00017 SPS	'MUSTG5 118.0 230KV'	50	0.15538 -0.15555	39
AEPW	'LEBROCK 345KV'	332	-0.00023 SPS	'MUSTANG 230KV'	310	0.15538 -0.15561	39
AEPW	'LEBROCK 345KV'	332	-0.00023 SPS	'MUSTG5 118.0 230KV'	50	0.15538 -0.15561	39
AEPW	'LIEBERMAN 138KV'	137	-0.00022 SPS	'MUSTANG 230KV'	310	0.15538 -0.1556	39
AEPW	'LIEBERMAN 138KV'	137	-0.00022 SPS	'MUSTG5 118.0 230KV'	50	0.15538 -0.1556	39
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.00024 SPS	'MUSTANG 230KV'	310	0.15538 -0.15562	39
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.00024 SPS	'MUSTG5 118.0 230KV'	50	0.15538 -0.15562	39
AEPW	MID-CONTINENT 138KV	142.11		MUSTANG 230KV	310	0.15538 -0.15556	39
AEPW	MID-CONTINENT 138KV	142.11	-0.00018 SPS	'MUSTG5 118.0 230KV'	50	0.15538 -0.15556	39
WEPL	'NORTH WEST GREAT BEND 115KV'	14.24	0.00139 SPS	MUSTANG 230KV	310	0.15538 -0.15399	39
WEPL	'NORTH WEST GREAT BEND 115KV'	14.24	0.00139 SPS	'MUSTG5 118.0 230KV'	50	0.15538 -0.15399	39
AEPW	OEC 345KV	14.24	-0.00023 SPS	'MUSTANG 230KV'	310	0.15538 -0.15399	39
AEPW	OEC 345KV OEC 345KV	1641.03	-0.00023 SPS -0.00023 SPS	MUSTANG 230KV MUSTG5 118.0 230KV	310	0.15538 -0.15561	39
					310		
AEPW	'PIRKEY GENERATION 138KV'	40		'MUSTANG 230KV'	310	0.15538 -0.15561 0.15538 -0.15561	39 39
AEPW	'PIRKEY GENERATION 138KV'		-0.00023 SPS	'MUSTG5 118.0 230KV'			
AEPW	'RIVERSIDE STATION 138KV'	76.00003	-0.00025 SPS	'MUSTANG 230KV'	310	0.15538 -0.15563	39
AEPW	'RIVERSIDE STATION 138KV'	76.00003	-0.00025 SPS	'MUSTG5 118.0 230KV'	50	0.15538 -0.15563	39
WEPL	'RUSSELL 115KV'	27.9	0.00118 SPS	'MUSTANG 230KV'	310	0.15538 -0.1542	39
WEPL	'RUSSELL 115KV'	27.9		'MUSTG5 118.0 230KV'	50	0.15538 -0.1542	39
AEPW	'RVRSIDEG13.8 138KV'	172		'MUSTANG 230KV'	310	0.15538 -0.15563	39
AEPW	'RVRSIDEG13.8 138KV'	172	-0.00025 SPS	'MUSTG5 118.0 230KV'	50	0.15538 -0.15563	39
AEPW	'SOUTHWESTERN STATION 138KV'	432	-0.00049 SPS	'MUSTANG 230KV'	310	0.15538 -0.15587	39
AEPW	'SOUTHWESTERN STATION 138KV'	432	-0.00049 SPS	'MUSTG5 118.0 230KV'	50	0.15538 -0.15587	39
AEPW	'TULSA POWER STATION 138KV'	55.00001	-0.00024 SPS	'MUSTANG 230KV'	310	0.15538 -0.15562	39
AEPW	'TULSA POWER STATION 138KV'	55.00001	-0.00024 SPS	'MUSTG5 118.0 230KV'	50	0.15538 -0.15562	39
AEPW	'TULSA POWER STATION 69KV'	80		'MUSTANG 230KV'	310	0.15538 -0.15562	39
AEPW	'TULSA POWER STATION 69KV'	80	-0.00024 SPS	'MUSTG5 118.0 230KV'	50	0.15538 -0.15562	39
AEPW	'WELEETKA 138KV'	72		'MUSTANG 230KV'	310	0.15538 -0.15572	39
AEPW	'WELEETKA 138KV'	72	-0.00034 SPS	'MUSTG5 118.0 230KV'	50	0.15538 -0.15572	39
AEPW	'WELSH 345KV'	54	-0.00026 SPS	'MUSTANG 230KV'	310	0.15538 -0.15564	39
AEPW	WELSH 345KV	54	-0.00026 SPS	'MUSTG5 118.0 230KV'	50	0.15538 -0.15564	39
AEPW	WILKES 138KV	109.5006	-0.00024 SPS	'MUSTANG 230KV'	310	0.15538 -0.15562	39
AEPW	WILKES 138KV	109.5006	-0.00024 SPS	'MUSTG5 118.0 230KV'	50	0.15538 -0.15562	39
WEPL	CIMARRON RIVER 115KV	14.77699	0.00229 SPS	'MUSTANG 230KV'	310	0.15538 -0.15309	40
WEPL	CIMARRON RIVER 115KV	14.77699	0.00229 SPS	'MUSTG5 118.0 230KV'	50	0.15538 -0.15309	40
SUNC	'GARDEN CITY 115KV'	127.7661	0.00247 SPS	'MUSTANG 230KV'	310	0.15538 -0.15291	40
SUNC	'GARDEN CITY 115KV'	127.7661	0.00247 SPS	'MUSTG5 118.0 230KV'	50	0.15538 -0.15291	40
SUNC	HOLCOMB 115KV	26.75568	0.00249 SPS	MUSTANG 230KV	310	0.15538 -0.15289	40
SUNC	HOLCOMB 115KV	26.75568	0.00249 SPS	'MUSTG5 118.0_230KV'	50	0.15538 -0.15289	40
SPS	'NICHOLS 115KV'	66.00001	0.00507 SPS	MUSTANG 230KV	310	0.15538 -0.15031	40
SPS	'NICHOLS 115KV'	66.00001	0.00507 SPS	'MUSTG5 118.0 230KV'	50	0.15538 -0.15031	40
SPS	'NICHOLS 230KV'	97	0.00519 SPS	MUSTANG 230KV	310	0.15538 -0.15031	40
SPS	NICHOLS 230KV	97		'MUSTG5 118.0 230KV'	50	0.15538 -0.15019	40
SPS	'RIVERVIEW 69KV'	23	0.00519 SPS	MUSTANG 230KV	310	0.15538 -0.15019	40
SPS	'RIVERVIEW 69KV'	23	0.00519 SPS	'MUSTG5 118.0 230KV'	50	0.15538 -0.15019	40
SPS	'PLANTX 115KV'	48		'MUSTANG 230KV'	310	0.15538 -0.14875	41
SPS	'PLANTX 115KV'	48	0.00663 SPS	'MUSTG5 118.0 230KV'	50	0.15538 -0.14875	41
SPS	TUCUMCARI 115KV'	15		MUSTANG 230KV	310	0.15538 -0.14036	43
SPS	'TUCUMCARI 115KV'	15		'MUSTG5 118.0 230KV'	50	0.15538 -0.14036	43
				'MUSTANG 230KV'	310	0.15538 -0.13748	44
SPS SPS	'TOLK 230KV' 'TOLK 230KV'	58.12347		'MUSTG5 118.0 230KV'	50		44

Maximum Decrement and Maximum Increment Factor = Source GSF - Sink GSF Redispatch Amount = Relief Amount / Factor

## YOAKUM COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1 YOAKUM COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1

lity:	YOAKUM COUNTY INTERCHANGE 230/115KV TRANSFO
	To->From
	MUSTANG STATION 230/115KV TRANSFORMER CKT 1
	51890518911519695196613108SP

Reservation	Relief Amount
Season Flowgate Identified:	2008 Summer Peak
Date Redispatch Needed:	Starting 2008 6/1 - 10/1 Until EOC
Flowgate:	51890518911519695196613108SF
Line Outage:	MUSTANG STATION 230/115KV T
Direction:	To->From
Limiting Facility:	YOAKUM COUNTY INTERCHANG
Upgrade:	YOAKUM COUNTY INTERCHANG

Season Flowgate Identified:	2008 Summer Peak								
		Aggregate Relief							
Reservation	Relief Amount	Amount							
1162675	5 4.4	4.4	1						
				Sink					Aggregate
		Maximum		Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
SPS	CUNNINGHAM 115KV	10.6123			'MUSTANG 230KV'	310		-0.21545	
SPS	CUNNINGHAM 115KV	10.6123			'MUSTG5 118.0 230KV'	50		-0.21545	
SPS	'MADOX 115KV'	75			'MUSTANG 230KV'	310		-0.21732	
SPS	'MADOX 115KV'	75	-0.06169	SPS	'MUSTG5 118.0 230KV'	50	0.15563	-0.21732	
SPS	'LP-HOLL2 69KV'	132			'MUSTANG 230KV'	310	0.15563	-0.16798	
SPS	'LP-HOLL2 69KV'	132	-0.01235	SPS	'MUSTG5 118.0 230KV'	50	0.15563	-0.16798	26
SPS	'LP-MACK2 69KV'	20			'MUSTANG 230KV'	310	0.15563	-0.16817	
SPS	'LP-MACK2 69KV'	20			'MUSTG5 118.0 230KV'	50	0.15563	-0.16817	
SPS	'CARLSBAD 69KV'	18			'MUSTANG 230KV'	310		-0.16275	27
SPS	CARLSBAD 69KV	18	-0.00712	SPS	'MUSTG5 118.0 230KV'	50	0.15563	-0.16275	
AEPW	'AEP-CT0113.8 161KV'	85			'MUSTANG 230KV'	310			
AEPW	'AEP-CT0113.8 161KV'	85			'MUSTG5 118.0 230KV'	50		-0.15578	
AEPW	'AEP-CT0213.8 161KV'	85			'MUSTANG 230KV'	310		-0.15578	28
AEPW	'AEP-CT0213.8 161KV'	85			'MUSTG5 118.0 230KV'	50	0.15563	-0.15578	
AEPW	'AEP-CT0313.8 161KV'	85			'MUSTANG 230KV'	310	0.15563	-0.15578	28
AEPW	'AEP-CT0313.8 161KV'	85			'MUSTG5 118.0 230KV'	50	0.15563	-0.15578	28
AEPW	'AEP-CT0413.8 161KV'	85			'MUSTANG 230KV'	310		-0.15578	
AEPW	'AEP-CT0413.8 161KV'	85			'MUSTG5 118.0 230KV'	50	0.15563	-0.15578	28
AEPW	'AEP-CT0513.8 161KV'	85			'MUSTANG 230KV'	310	0.15563	-0.15578	28
AEPW	'AEP-CT0513.8 161KV'	85			'MUSTG5 118.0 230KV'	50		-0.15578	
AEPW	'AEP-CT0613.8 161KV'	85			'MUSTANG 230KV'	310	0.15563	-0.15578	
AEPW	'AEP-CT0613.8 161KV'	85	-0.00015	SPS	'MUSTG5 118.0 230KV'	50	0.15563	-0.15578	28
AEPW	'AH-CC C118.0 138KV'	150			'MUSTANG 230KV'	310		-0.15584	
AEPW	'AH-CC_C118.0 138KV'	150	-0.00021	SPS	'MUSTG5 118.0 230KV'	50	0.15563	-0.15584	
AEPW	'AH-CC_C218.0 138KV'	150	-0.00021		'MUSTANG 230KV'	310	0.15563	-0.15584	28
AEPW	'AH-CC_C218.0_138KV'	150	-0.00021	SPS	'MUSTG5 118.0 230KV'	50	0.15563	-0.15584	
AEPW	'AH-CC ST18.0 138KV'	250	-0.00021		'MUSTANG 230KV'	310	0.15563	-0.15584	
AEPW	'AH-CC_ST18.0 138KV'	250	-0.00021		'MUSTG5 118.0 230KV'	50	0.15563	-0.15584	
AEPW	'ARSENAL HILL 69KV'	99			'MUSTANG 230KV'	310		-0.15584	28
AEPW	ARSENAL HILL 69KV	99			'MUSTG5 118.0 230KV'	50	0.15563	-0.15584	
WEPL	'BELOIT 115KV'	16.6			'MUSTANG 230KV'	310	0.15563	-0.15497	
WEPL	'BELOIT 115KV'	16.6			'MUSTG5 118.0 230KV'	50		-0.15497	
AEPW	COGENTRIX 345KV	129			'MUSTANG 230KV'	310		-0.15588	28
AEPW	COGENTRIX 345KV	129			'MUSTG5 118.0 230KV'	50	0.15563	-0.15588	
AEPW	'EASTMAN 138KV'	330.01			'MUSTANG 230KV'	310		-0.15586	
AEPW	'EASTMAN 138KV'	330.01			'MUSTG5 118.0 230KV'	50	0.15563	-0.15586	
WEPL	'HARPER 138KV'	17.21	0.00051		'MUSTANG 230KV'	310	0.15563	-0.15512	
WEPL	'HARPER 138KV'	17.21			'MUSTG5 118.0 230KV'	50			
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AEPW	'HEMPCOAL24.0 138KV'	608		'MUSTANG 230KV'	310	0.15563	-0.15589	2
AEPW	'HEMPCOAL24.0 138KV'	608		'MUSTG5 118.0 230KV'	50	0.15563		2
AEPW	'KIOWA 345KV'	1348		'MUSTANG 230KV'	310	0.15563		2
AEPW	'KIOWA 345KV'	1348		'MUSTG5 118.0 230KV'	50	0.15563	-0.15614	2
AEPW	'KNOXLEE 138KV'	198		'MUSTANG 230KV'	310	0.15563	-0.15586	2
AEPW	'KNOXLEE 138KV'	198		'MUSTG5 118.0 230KV'	50	0.15563	-0.15586	2
AEPW	'L&D13 69KV'	13	-0.00017 SPS	'MUSTANG 230KV'	310	0.15563	-0.1558	2
AEPW	'L&D13 69KV'	13	-0.00017 SPS	'MUSTG5 118.0 230KV'	50	0.15563	-0.1558	2
AEPW	'LEBROCK 345KV'	382	-0.00023 SPS	'MUSTANG 230KV'	310	0.15563	-0.15586	2
AEPW	LEBROCK 345KV	382	-0.00023 SPS	'MUSTG5 118.0 230KV'	50	0.15563	-0.15586	2
AEPW	LIEBERMAN 138KV	154	-0.00022 SPS	'MUSTANG 230KV'	310	0.15563	-0.15585	2
AEPW	LIEBERMAN 138KV	154		'MUSTG5 118.0 230KV'	50	0.15563	-0.15585	2
AEPW	LONESTAR POWER PLANT 69KV	50		MUSTANG 230KV	310	0.15563	-0.15587	2
	LONESTAR POWER PLANT 69KV	50		'MUSTG5 118.0 230KV'	50	0.15563	-0.15587	2
AEPW								
AEPW	'MID-CONTINENT 138KV'	142.11		'MUSTANG 230KV'	310	0.15563	-0.15581	2
AEPW	'MID-CONTINENT 138KV'	142.11		'MUSTG5 118.0 230KV'	50	0.15563	-0.15581	2
AEPW	'OEC 345KV'	1691.03		'MUSTANG 230KV'	310	0.15563	-0.15586	2
AEPW	'OEC 345KV'	1691.03	-0.00023 SPS	'MUSTG5 118.0 230KV'	50	0.15563	-0.15586	2
\EPW	'PIRKEY GENERATION 138KV'	25	-0.00023 SPS	'MUSTANG 230KV'	310	0.15563	-0.15586	2
AEPW	'PIRKEY GENERATION 138KV'	25	-0.00023 SPS	'MUSTG5 118.0 230KV'	50	0.15563	-0.15586	2
AEPW	'RIVERSIDE STATION 138KV'	113		'MUSTANG 230KV'	310	0.15563	-0.15588	2
AEPW	'RIVERSIDE STATION 138KV'	113		'MUSTG5 118.0 230KV'	50	0.15563	-0.15588	2
AEPW	SOUTHWESTERN STATION 138KV	334		MUSTANG 230KV	310	0.15563	-0.15614	2
AEPW	SOUTHWESTERN STATION 138KV	334	-0.00051 SPS	'MUSTG5 118.0 230KV'	50	0.15563	-0.15614	2
AEPW AEPW	TULSA POWER STATION 138KV	108	-0.00051 SPS	MUSTGS 118.0 230KV	310	0.15563	-0.15587	2
AEPW	'TULSA POWER STATION 138KV'	108		'MUSTG5 118.0 230KV'	50	0.15563	-0.15587	2
\EPW	'TULSA POWER STATION 69KV'	80		'MUSTANG 230KV'	310	0.15563		2
AEPW	'TULSA POWER STATION 69KV'	80	-0.00024 SPS	'MUSTG5 118.0 230KV'	50	0.15563	-0.15587	2
AEPW	WELEETKA 138KV	58	-0.00034 SPS	'MUSTANG 230KV'	310	0.15563	-0.15597	2
AEPW	WELEETKA 138KV	58	-0.00034 SPS	'MUSTG5 118.0 230KV'	50	0.15563	-0.15597	2
AEPW	WILKES 138KV	114.8206	-0.00024 SPS	'MUSTANG 230KV'	310	0.15563	-0.15587	2
AEPW	WILKES 138KV	114.8206	-0.00024 SPS	'MUSTG5 118.0 230KV'	50	0.15563	-0.15587	2
WEPL	CIMARRON RIVER 115KV	11.50916	0.00224 SPS	'MUSTANG 230KV'	310	0.15563	-0.15339	2
WEPL	CIMARRON RIVER 115KV	11.50916		'MUSTG5 118.0 230KV'	50	0.15563	-0.15339	2
SUNC	CITY OF HUGOTON 69KV	10.17	0.0023 SPS	'MUSTANG 230KV'	310	0.15563		2
SUNC	CITY OF HUGOTON 69KV	10.17	0.0023 SPS	'MUSTG5 118.0 230KV'	50	0.15563	-0.15333	2
SUNC	'CITY OF NORTON 115KV'	10.56	0.00153 SPS	'MUSTANG 230KV'	310	0.15563	-0.1541	2
SUNC	CITY OF NORTON 115KV	10.56	0.00153 SPS	'MUSTG5 118.0 230KV'	50	0.15563	-0.1541	2
SUNC	'GARDEN CITY 115KV'	126.8647	0.00242 SPS	'MUSTANG 230KV'	310	0.15563	-0.15321	2
SUNC	'GARDEN CITY 115KV'	126.8647	0.00242 SPS	'MUSTG5 118.0 230KV'	50	0.15563	-0.15321	2
SUNC	'GARDEN CITY 34KV'	10.7	0.00242 SPS	'MUSTANG 230KV'	310	0.15563	-0.15321	2
SUNC	'GARDEN CITY 34KV'	10.7	0.00242 SPS	'MUSTG5 118.0 230KV'	50	0.15563	-0.15321	2
SUNC	'GARDEN CITY 69KV'	13	0.00242 SPS	'MUSTANG 230KV'	310	0.15563	-0.15321	2
SUNC	'GARDEN CITY 69KV'	13	0.00242 SPS	'MUSTG5 118.0 230KV'	50	0.15563	-0.15321	2
SUNC	HOLCOMB 115KV	25.22687	0.00245 SPS	'MUSTANG 230KV'	310	0.15563	-0.15318	2
SUNC	HOLCOMB 115KV	25.22687	0.00245 SPS	'MUSTG5 118.0 230KV'	50	0.15563	-0.15318	2
SPS			0.00245 SPS 0.00502 SPS	MUSTG5 118.0 230KV 'MUSTANG 230KV'	310	0.15563	-0.15318	2
	'NICHOLS 115KV'	66.00001						
SPS	'NICHOLS 115KV'	66.00001	0.00502 SPS	'MUSTG5 118.0 230KV'	50	0.15563	-0.15061	2
SPS	'NICHOLS 230KV'	97	0.00514 SPS	'MUSTANG 230KV'	310	0.15563	-0.15049	2
SPS	'NICHOLS 230KV'	97	0.00514 SPS	'MUSTG5 118.0 230KV'	50	0.15563	-0.15049	2
WEPL	'NORTH WEST GREAT BEND 115KV'	14.24	0.00133 SPS	'MUSTANG 230KV'	310	0.15563	-0.1543	2
VEPL	'NORTH WEST GREAT BEND 115KV'	14.24		'MUSTG5 118.0 230KV'	50	0.15563	-0.1543	2
SPS	'RIVERVIEW 69KV'	23	0.00514 SPS	'MUSTANG 230KV'	310	0.15563	-0.15049	2
SPS	'RIVERVIEW 69KV'	23	0.00514 SPS	'MUSTG5 118.0 230KV'	50	0.15563	-0.15049	2
WEPL	'RUSSELL 115KV'	27.9		'MUSTANG 230KV'	310	0.15563	-0.15449	2
VEPL	RUSSELL 115KV	27.9	0.00114 SPS	'MUSTG5 118.0 230KV'	50	0.15563	-0.15449	2
SPS SPS	PLANTX 115KV	48		MUSTGS 118.0 230KV	310	0.15563	-0.15449	
SPS	PLANTX 115KV	48		'MUSTG5 118.0 230KV'	50	0.15563	-0.14905	3
SPS	TUCUMCARI 115KV	15		'MUSTANG 230KV'	310	0.15563	-0.14053	3
SPS	TUCUMCARI 115KV	15		'MUSTG5 118.0 230KV'	50	0.15563	-0.14053	3
SPS SPS	'TOLK 230KV' 'TOLK 230KV'	58.91937 58.91937		'MUSTANG 230KV' 'MUSTG5 118.0 230KV'	310 50	0.15563	-0.13765 -0.13765	3

Maximum Decrement and Maximum Incremer Factor = Source GSF - Sink GSF Redispatch Amount = Relief Amount / Factor