



*Aggregate Facility Study
SPP-2006-AG3-AFS-7
For Transmission Service
Requested by
Aggregate Transmission Customers*

SPP Engineering, SPP Tariff Studies

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1. Executive Summary

Pursuant to Attachment Z of the Southwest Power Pool Open Access Transmission Tariff (OATT), 3467 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 \$237 Million. Additionally an indeterminate amount of assigned E & C cost for 3rd party facility upgrades are assignable to the customer. The total upgrade levelized revenue requirement for all transmission requests is \$786 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 \$641 Thousand.

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 August 8th, 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 August 23rd, 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 re-performed 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 3467 MW of long-term transmission service has been restudied in this Aggregate Facility Study (AFS) with over \$237 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.

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:

1. 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. These credits can be paid from base plan funding if applicable.

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.

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 through 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

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. An agreement between the Customer and 3rd Party Owner detailing the mitigation of the 3rd party impact must be provided to the Transmission Provider prior to tendering of a Transmission Service Agreement. 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 3rd 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 pre-determined 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 AECl, AMRN, and ENTR and a 2 % TDF cutoff was applied to MEC, NPPD, and 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 3467 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 3467 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 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 in a West to East 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 pre-transfer 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 request application clearly documents that the existing designated network resource(s) is being replaced or

undesigned 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. 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 1st-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 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 7 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 (if applicable)

identifies deferred expansion plan projects that were replaced with requested upgrades at earlier dates.

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:

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 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 without 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.

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 August 8th, 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 August 23rd, 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 not required for those facilities that are base plan funded. 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

SPP AGGREGATE FACILITY STUDY (SPP-2006-AG3-AFS-7)

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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 - 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. Exclcd 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 - Phase shift adjustment
 - Flat start
 - Lock DC taps
 - Lock switched shunts

Table 1 - Long-Term Transmission Service Requests Included in Aggregate Facility Study

Customer	Study Number	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date without interim redispatch	Deferred Stop Date without interim redispatch	Start Date with interim redispatch	Stop Date with interim redispatch	Minimum Allocated ATC (MW) within reservation period	Season of Minimum Allocated ATC within reservation period
AECC	AG3-2006-001	1161209	CSWS	CSWS	70	6/1/2011	6/1/2031					0	11SP
AEPM	AG3-2006-039	1158760	CSWS	CSWS	160	7/1/2007	7/1/2012	10/1/2008	10/1/2013	9/1/2007	9/1/2012 ²	0	07SP
AEPM	AG3-2006-040	1158761	CSWS	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	OKGE	CSWS	457	6/1/2011	6/1/2031					0	11SP
AEPM	AG3-2006-044	1162214	CSWS	CSWS	455	6/1/2011	6/1/2031					0	11SP
AEPM	AG3-2006-094	1163062	CSWS	CSWS	550	6/1/2010	6/1/2015					0	11SP
KCPS	AG3-2006-101	1162686	AECI	KCPL	50	6/1/2007	6/1/2008	8/1/2007	8/1/2008	9/1/2007	9/1/2008 ²	0	07SP
KCPS	AG3-2006-103	1162650	KCPL	CLEC	52	2/1/2007	2/1/2008	10/1/2007	10/1/2008	9/1/2007	9/1/2008 ²	0	07SP
KCPS	AG3-2006-103	1162651	KCPL	CLEC	51	2/1/2007	2/1/2008	10/1/2007	10/1/2008	9/1/2007	9/1/2008 ²	0	07SP
NTEC	AG3-2006-035	1161974	CSWS	CSWS	52	6/1/2011	6/1/2031					0	16SP
OGE	AG3-2006-034	1161665	OKGE	SPA	20	2/1/2007	2/1/2012	8/1/2007	8/1/2012	9/1/2007	9/1/2012 ²	0	11SP
OGE	AG3-2006-049	1162077	OKGE	OKGE	384	6/1/2011	6/1/2031					0	11SP
OMPA	AG3-2006-028	1159596	CSWS	CSWS	41	6/1/2011	6/1/2031					0	11SP
OMPA	AG3-2006-050	1162095	OKGE	OKGE	73	6/1/2011	6/1/2031					0	11SP
SEPC	AG3-2006-113	1162670	WR	SECI	51	12/1/2007	12/1/2027	1/1/2011	1/1/2031			0	07WP
UCU	AG3-2006-052D	1162075	WR	MPS	51	1/1/2008	1/1/2028	1/1/2011	1/1/2031			0	07WP
UCU	AG3-2006-088D	1162678	WR	MPS	25	1/1/2008	1/1/2028	1/1/2011	1/1/2031			0	07WP
UCU	AG3-2006-088D	1162681	WR	MPS	25	1/1/2008	1/1/2028	1/1/2011	1/1/2031			0	07WP
WRGS	AG3-2006-024D	1161506	WR	WR	380	5/1/2008	5/1/2014	1/1/2011	1/1/2017	5/1/2008	5/1/2014 ²	0	08SP
WRGS	AG3-2006-025	1140120	WR	WR	360	5/1/2009	5/1/2015	1/1/2011	1/1/2017	5/1/2009	5/1/2015 ²	0	11SP

Note 1: Disregard Redispatch shown in Table 6 for limitations identified earlier than the start date with redispatch with the exception of limitations identified in the 2007 Summer Shoulder, and 2007 Fall Peak

Note 2: Start and Stop Dates with interim redispatch are determined based on customers choosing option to pursue redispatch to start service at Requested Start and Stop Dates or earliest date possible.

Table 2 - Total Revenue Requirements Associated with Long-Term Transmission Service Requests

Customer	Study Number	Reservation	Engineering and Construction Cost of Upgrades Allocated to Customer for Revenue Requirements	¹ Letter of Credit Amount Required	² Potential Base Plan Engineering and Construction Funding Allowable	Notes	⁴ Additional Engineering and Construction Cost for 3rd Party Upgrades	³ Total Revenue Requirements for Assigned Upgrades over term of reservation without potential base plan funding allocation	^{3 5} Total Revenue Requirements for Assigned Upgrades over term of reservation WITH potential base plan funding allocation	Point-to-Point Base Rate over reservation period	⁴ Total Cost of Reservation Assignable to Customer contingent upon base plan funding
AECC	AG3-2006-001	1161209	\$ 17,782,945	\$ -	\$ 17,782,945		Indeterminate	\$ 57,712,798	\$ -	\$ -	Sch 9 charges
AEPM	AG3-2006-039	1158760	\$ 2,509,538	\$ -	\$ 2,509,538		Indeterminate	\$ 3,847,523	\$ -	\$ -	Sch 9 charges
AEPM	AG3-2006-040	1158761	\$ 2,509,538	\$ -	\$ 2,509,538		Indeterminate	\$ 3,900,843	\$ -	\$ -	Sch 9 charges
AEPM	AG3-2006-043	1162211	\$ 44,579,437	\$ -	\$ 44,579,437		Indeterminate	\$ 188,344,035	\$ -	\$ -	Sch 9 charges
AEPM	AG3-2006-044	1162214	\$ 71,759,218	\$ -	\$ 71,759,218		Indeterminate	\$ 227,094,065	\$ -	\$ -	Sch 9 charges
AEPM	AG3-2006-094	1163062	\$ 38,837,239	\$ -	\$ 38,837,239		Indeterminate	\$ 70,959,030	\$ -	\$ -	Sch 9 charges
KCPS	AG3-2006-101	1162686	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	Sch 9 charges
KCPS	AG3-2006-103	1162650	\$ -	\$ -	\$ -		Indeterminate	\$ -	\$ -	\$ 655,200	\$ 655,200
KCPS	AG3-2006-103	1162651	\$ -	\$ -	\$ -		Indeterminate	\$ -	\$ -	\$ 642,600	\$ 642,600
NTEC	AG3-2006-035	1161974	\$ 6,058,232	\$ -	\$ 6,058,232		\$ -	\$ 20,283,009	\$ -	\$ -	Sch 9 charges
OGE	AG3-2006-034	1161665	\$ 2,821	\$ -	\$ -		Indeterminate	\$ 4,922	\$ 3,064	\$ 1,080,000	\$ 1,080,000
OGE	AG3-2006-049	1162077	\$ 36,791,640	\$ -	\$ 36,791,640		\$ -	\$ 156,893,095	\$ -	\$ -	Sch 9 charges
OMPA	AG3-2006-028	1159596	\$ 9,839,264	\$ -	\$ 9,839,263		Indeterminate	\$ 30,561,379	\$ -	\$ -	Sch 9 charges
OMPA	AG3-2006-050	1162095	\$ 6,226,805	\$ -	\$ 6,226,805		\$ -	\$ 26,575,565	\$ -	\$ -	Sch 9 charges
SEPC	AG3-2006-113	1162670	\$ 1,548	\$ -	\$ 1,548		\$ -	\$ 4,293	\$ -	\$ -	Sch 9 charges
UCU	AG3-2006-052D	1162075	\$ 93,029	\$ 42,535	\$ -		\$ -	\$ 322,123	\$ 322,123	\$ 19,718,640	\$ 19,718,640
UCU	AG3-2006-088D	1162678	\$ 45,603	\$ 20,850	\$ -		\$ -	\$ 157,905	\$ 157,905	\$ 9,666,000	\$ 9,666,000
UCU	AG3-2006-088D	1162681	\$ 45,603	\$ 20,850	\$ -		\$ -	\$ 157,905	\$ 157,905	\$ 9,666,000	\$ 9,666,000
WRGS	AG3-2006-024D	1161506	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	Sch 9 charges
WRGS	AG3-2006-025	1140120	\$ -	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	Sch 9 charges
Totals			\$ 237,082,459					\$ 786,818,489	\$ 640,997		

Note 1: Letter of Credit required for financial security for transmission owner for network upgrades is determined by allocated engineering and construction costless engineering and construction costs for upgrades when network customer is the transmission owner less the E & C allocation of expedited projects. Letter of Credit is not required for base plan funded upgrades. The LOC listed is based on meeting OATT Attachment J requirements for base plan funding.

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 can be paid from base plan funding if applicable.

Note 5: 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.

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated costs for Each Upgrade

Customer Study Number
 AECC AG3-2006-001

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
AECC	1161209	CSWS	CSWS	70	6/1/2011	6/1/2031			\$ 17,782,945	\$ -	\$ 19,427,388	\$ 57,712,799
									\$ 17,782,945	\$ -	\$ 19,427,388	\$ 57,712,799

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1161209	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 AEPW	6/1/2011	6/1/2011			\$ 1,278,877	\$ 7,282,800	\$ 4,512,847
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 OKGE	6/1/2011	6/1/2011			\$ 128,962	\$ 734,400	\$ 559,167
	DYESS - ELM SPRINGS REC 161KV CKT 1	6/1/2011	6/1/2011			\$ 260,649	\$ 5,000,000	\$ 908,550
	DYESS - TONTITOWN 161KV CKT 1	6/1/2016	6/1/2016			\$ 500,000	\$ 500,000	\$ 1,242,553
	ELM SPRINGS REC - TONTITOWN 161KV CKT 1	6/1/2016	6/1/2016			\$ 50,000	\$ 50,000	\$ 123,603
	HEMPSTEAD - NW TEXARKANA 345KV CKT 1	6/1/2011	6/1/2011			\$ 6,162,804	\$ 57,530,000	\$ 21,334,441
	Hugo - SunnySide 345kv OKGE	6/1/2011	6/1/2011			\$ 61,169	\$ 750,000	\$ 261,971
	Hugo - SunnySide 345kv WFEC	6/1/2011	6/1/2011			\$ 4,077,907	\$ 50,000,000	\$ 10,002,709
	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1 AEPW	6/1/2011	6/1/2011			\$ 365,566	\$ 3,094,000	\$ 1,264,862
	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1 OKGE	6/1/2011	6/1/2011			\$ 36,864	\$ 312,000	\$ 156,725
	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			\$ 330,016	\$ 2,500,000	\$ 1,148,999
	SUNNYSIDE (SUNNYSID3) 345/138/13.8KV TRANSFORMER CKT 1	6/1/2011	6/1/2011			\$ 530,131	\$ 6,500,000	\$ 2,269,794
						\$ 17,782,945	\$ 138,253,200	\$ 57,712,799

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
1161209	412SUB - KANSAS TAP 161KV CKT 1	6/1/2015	3/1/2009		
	412SUB - KERR 161KV CKT 1	6/1/2015	3/1/2009		
	BONANZA - BONANZA TAP 161KV CKT 1	6/1/2015	6/1/2015		
	FLINT CREEK - GENTRY REC 161KV CKT 1	6/1/2016	6/1/2016		
	Siloam Springs - South Fayetteville 161 kv	6/1/2016	6/1/2016		
	BULL SHOALS - BULL SHOALS 161KV CKT 1 SWPA	6/1/2011	6/1/2011		

Third Party Limitations.

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1161209	5FLIPN - BULL SHOALS HES 161KV CKT 1	6/1/2011	6/1/2011			\$ -	\$ -
	SHILLTOP 161 - SST JOE 161 161KV CKT 1	6/1/2011	6/1/2011			\$ -	\$ -
	SST JOE 161 - EVERTON 161KV CKT 1	6/1/2011	6/1/2011			\$ -	\$ -
	ARKANSAS NUCLEAR ONE 161 - RUSSELLVILLE NORTH 161KV CKT 1	6/1/2011	6/1/2011			\$ -	\$ -
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 ENTR	6/1/2011	6/1/2011			\$ 1,278,877	\$ 7,282,800
	EVERTON - HARRISON-EAST 161KV CKT 1	6/1/2011	6/1/2011			\$ -	\$ -
	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1 ENTR	6/1/2011	6/1/2011			\$ 365,566	\$ 3,094,000
	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			\$ -	\$ -
						\$ 1,644,443	\$ 10,376,800

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated costs for Each Upgrade

Customer Study Number
 AEPM AG3-2006-039

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
AEPM	1158760	CSWS	CSWS	160	7/1/2007	7/1/2012	10/1/2008	10/1/2013	\$ 2,509,538	\$ -	\$ 2,509,538	\$ 3,846,518
									\$ 2,509,538	\$ -	\$ 2,509,538	\$ 3,846,518

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1158760	ARSENAL HILL - FORT HUMBUG 138KV CKT 1	6/1/2010	6/1/2010			\$ 33,613	\$ 2,750,000	\$ 54,788
	ARSENAL HILL - MCWILLIE STREET 138KV CKT 1	6/1/2010	6/1/2010			\$ 1,222	\$ 100,000	\$ 1,998
	DYESS - ELM SPRINGS REC 161KV CKT 1	6/1/2011	6/1/2011			\$ 2,369,675	\$ 5,000,000	\$ 3,626,341
	SOUTHWEST SHREVEPORT - SOUTHWEST SHREVEPORT TAP 138KV CKT 1 Displacement	6/1/2008	4/1/2009	10/1/2008	Yes	\$ 49,890	\$ 287,909	\$ 88,404
	SOUTHWEST SHREVEPORT (SW SHV 1) 345/138/13.8KV TRANSFORMER CKT 1 DISPLACEMENT	6/1/2008	6/1/2009	10/1/2008	Yes	\$ 27,569	\$ 55,139	\$ 37,493
	SOUTHWEST SHREVEPORT (SW SHV 1) 345/138/13.8KV TRANSFORMER CKT 2 DISPLACEMENT	6/1/2008	6/1/2009	10/1/2008	Yes	\$ 27,569	\$ 55,139	\$ 37,493
	Total					\$ 2,509,538	\$ 8,248,186	\$ 3,846,518

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
1158760	LINWOOD - MCWILLIE STREET 138KV CKT 1	6/1/2007	6/1/2008	10/1/2007	Yes

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1158760	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		

Third Party Limitations.

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch 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		

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated costs for Each Upgrade

Customer Study Number
 AEPM AG3-2006-040

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
AEPM	1158761	CSWS	CSWS	160	11/1/2007	11/1/2012	10/1/2008	10/1/2013	\$ 2,509,538	\$ -	\$ 2,509,538	\$ 3,900,843
									\$ 2,509,538	\$ -	\$ 2,509,538	\$ 3,900,843

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1158761	ARSENAL HILL - FORT HUMBUG 138KV CKT 1	6/1/2010	6/1/2010			\$ 33,613	\$ 2,750,000	\$ 55,937
	ARSENAL HILL - MCWILLIE STREET 138KV CKT 1	6/1/2010	6/1/2010			\$ 1,222	\$ 100,000	\$ 2,026
	DYESS - ELM SPRINGS REC 161KV CKT 1	6/1/2011	6/1/2011			\$ 2,369,675	\$ 5,000,000	\$ 3,676,595
	SOUTHWEST SHREVEPORT - SOUTHWEST SHREVEPORT TAP 138KV CKT 1 Displacement	6/1/2008	4/1/2009	10/1/2008	Yes	\$ 49,890	\$ 287,909	\$ 90,259
	SOUTHWEST SHREVEPORT (SW SHV 1) 345/138/13.8KV TRANSFORMER CKT 1 DISPLACEMENT	6/1/2008	6/1/2009	10/1/2008	Yes	\$ 27,569	\$ 55,139	\$ 38,013
	SOUTHWEST SHREVEPORT (SW SHV 1) 345/138/13.8KV TRANSFORMER CKT 2 DISPLACEMENT	6/1/2008	6/1/2009	10/1/2008	Yes	\$ 27,569	\$ 55,139	\$ 38,013
	Total					\$ 2,509,538	\$ 8,248,186	\$ 3,900,843

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
1158761	LINWOOD - MCWILLIE STREET 138KV CKT 1	6/1/2007	6/1/2008	10/1/2007	Yes

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1158761	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		

Third Party Limitations.

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

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated costs for Each Upgrade

Customer Study Number
 AEPM AG3-2006-043

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
AEPM	1162211	OKGE	CSWS	457	6/1/2011	6/1/2031			\$ 44,579,437	\$ -	\$ 44,579,437	\$ 188,344,034
									\$ 44,579,437	\$ -	\$ 44,579,437	\$ 188,344,034

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1162211	ARCADIA - SOONER 345KV CKT 1	6/1/2011	6/1/2011			\$ 32,299,389	\$ 65,000,000	\$ 140,101,531
	ARSENAL HILL - FORT HUMBURG 138KV CKT 1	6/1/2010	6/1/2010			\$ 100,132	\$ 2,750,000	\$ 374,372
	ARSENAL HILL - MCWILLIE STREET 138KV CKT 1	6/1/2010	6/1/2010			\$ 3,641	\$ 100,000	\$ 13,559
	CANADIAN - CEDAR LANE 138KV CKT 1	6/1/2011	6/1/2011			\$ 75,000	\$ 75,000	\$ 319,500
	CIMARRON - NORTHWEST 345KV CKT 1	6/1/2016	6/1/2016			\$ 46,167	\$ 90,000	\$ 133,004
	FRANKLIN SW - MIDWEST TAP 138KV CKT 1 OKGE Displacement	6/1/2014	6/1/2014			\$ 57,917	\$ 57,917	\$ 197,656
	FRANKLIN SW - MIDWEST TAP 138KV CKT 1 WFEC	6/1/2014	6/1/2014			\$ 100,000	\$ 100,000	\$ 223,974
	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			\$ 6,659,604	\$ 11,208,425	\$ 28,299,965
	ROSEHILL - SOONER 345KV CKT 1 WERE Displacement	6/1/2011	6/1/2011			\$ 4,974,483	\$ 8,372,286	\$ 17,580,997
	SOUTHWEST SHREVEPORT - SOUTHWEST SHREVEPORT TAP 138KV CKT 1 Displacement	6/1/2008	4/1/2009	10/1/2008		\$ 136,720	\$ 287,909	\$ 555,701
						\$ 44,579,437	\$ 88,341,537	\$ 188,344,034

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
1162211	ALUMAX TAP - NORTHWEST TEXARKANA 138KV CKT 1	6/1/2008	6/1/2008		
	LINWOOD - MCWILLIE STREET 138KV CKT 1	6/1/2007	6/1/2008	10/1/2007	Yes

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1162211	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		

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	Earliest Service Start Date	Redispatch Available
1162211	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2011		

Third Party Limitations.

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1162211	8WELLS 500 - WEBRE 500KV CKT 1	6/1/2008	6/1/2008		

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated costs for Each Upgrade

Customer Study Number
 AEPM AG3-2006-044

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
AEPM	1162214	CSWS	CSWS	455	6/1/2011	6/1/2031			\$ 71,759,218	\$ -	\$ 71,759,218	\$ 227,094,065
									\$ 71,759,218	\$ -	\$ 71,759,218	\$ 227,094,065

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1162214	HEMPSTEAD - NW TEXARKANA 345KV CKT 1	6/1/2011	6/1/2011			\$ 42,426,473	\$ 57,530,000	\$ 146,872,280
	Hugo - SunnySide 345kV OKGE	6/1/2011	6/1/2011			\$ 359,980	\$ 750,000	\$ 1,541,700
	Hugo - SunnySide 345kV WFEC	6/1/2011	6/1/2011			\$ 23,998,639	\$ 50,000,000	\$ 58,866,323
	SUGAR HILL (SUGAR HL) 138/69/12.47KV TRANSFORMER CKT 1	6/1/2011	6/1/2011			\$ 1,854,299	\$ 2,500,000	\$ 6,456,011
	SUNNYSIDE (SUNNYSID3) 345/138/13.8KV TRANSFORMER CKT 1	6/1/2011	6/1/2011			\$ 3,119,827	\$ 6,500,000	\$ 13,357,751
	Total					\$ 71,759,218	\$ 117,280,000	\$ 227,094,065

Third Party Limitations.

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1162214	ARKANSAS NUCLEAR ONE 161 - RUSSELLVILLE NORTH 161KV CKT 1	6/1/2011	6/1/2011		
	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		

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated costs for Each Upgrade

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

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KCPS	1162686	AECI	KCPL	50	6/1/2007	6/1/2008	8/1/2007	8/1/2008	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

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

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
1162686	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2007	8/1/2007		Yes

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch 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		

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated costs for Each Upgrade

Customer Study Number
 KCPS AG3-2006-103

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KCPS	1162650	KCPL	CLEC	52	2/1/2007	2/1/2008	10/1/2007	10/1/2008	\$ -	\$ 655,200	\$ -	\$ -
KCPS	1162651	KCPL	CLEC	51	2/1/2007	2/1/2008	10/1/2007	10/1/2008	\$ -	\$ 642,600	\$ -	\$ -
									\$ -	\$ 1,297,800	\$ -	\$ -

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

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
1162650	BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1	6/1/2007	6/1/2008	10/1/2007	Yes
1162651	BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1	6/1/2007	6/1/2008	10/1/2007	Yes

Third Party Limitations.

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1162650	3GRENWD 115 - HUMPHREY 115KV CKT 1	6/1/2007	6/1/2007		
	3GRENWD 115 - TERREBONNE 115KV CKT 1	6/1/2007	6/1/2007		
	4KSPRGS 138 - CHAMPAGNE 138KV CKT 1	6/1/2007	6/1/2007		
	4KSPRGS 138 - LINE 642 TAP 138KV CKT 1	6/1/2007	6/1/2007		
	8WELLS 500 - WEBRE 500KV CKT 1	6/1/2008	6/1/2008		
	GIBSON - HUMPHREY 115KV CKT 1	6/1/2007	6/1/2007		
	GIBSON - RAMOS 138KV CKT 1	6/1/2007	6/1/2007		
	GIBSON 138/115KV TRANSFORMER CKT 1	6/1/2008	6/1/2008		
	LINE 642 TAP - LIVONIA BULK 138KV CKT 1	6/1/2007	6/1/2007		
	LIVONIA BULK - WILBERT 138KV CKT 1	6/1/2007	6/1/2007		
1162651	TERREBONNE 230/115KV TRANSFORMER CKT 1	6/1/2008	6/1/2008		
	3GRENWD 115 - HUMPHREY 115KV CKT 1	6/1/2007	6/1/2007		
	3GRENWD 115 - TERREBONNE 115KV CKT 1	6/1/2007	6/1/2007		
	4KSPRGS 138 - CHAMPAGNE 138KV CKT 1	6/1/2007	6/1/2007		
	4KSPRGS 138 - LINE 642 TAP 138KV CKT 1	6/1/2007	6/1/2007		
	8WELLS 500 - WEBRE 500KV CKT 1	6/1/2008	6/1/2008		
	GIBSON - HUMPHREY 115KV CKT 1	6/1/2007	6/1/2007		
	GIBSON - RAMOS 138KV CKT 1	6/1/2007	6/1/2007		
	GIBSON 138/115KV TRANSFORMER CKT 1	6/1/2008	6/1/2008		
	LINE 642 TAP - LIVONIA BULK 138KV CKT 1	6/1/2007	6/1/2007		
LIVONIA BULK - WILBERT 138KV CKT 1	6/1/2007	6/1/2007			
TERREBONNE 230/115KV TRANSFORMER CKT 1	6/1/2008	6/1/2008			

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated costs for Each Upgrade

Customer NTEC
Study Number AG3-2006-035

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
NTEC	1161974	CSWS	CSWS	52	6/1/2011	6/1/2031			\$ 6,058,232	\$ -	\$ 6,058,232	\$ 20,283,008
									\$ 6,058,232	\$ -	\$ 6,058,232	\$ 20,283,008

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
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			\$ 5,067,852	\$ 57,530,000	\$ 17,543,928
	SOUTHWEST SHREVEPORT - SOUTHWEST SHREVEPORT TAP 138KV CKT 1 Displacement	6/1/2008	4/1/2009	10/1/2008		\$ 51,409	\$ 287,909	\$ 208,952
	SUGAR HILL (SUGAR HL) 138/69/12.47KV TRANSFORMER CKT 1	6/1/2011	6/1/2011			\$ 188,971	\$ 2,500,000	\$ 657,930
	Total					\$ 6,058,232	\$ 61,067,909	\$ 20,283,008

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
1161974	BEN WHEELER - BARTONS CHAPEL	6/1/2016	6/1/2016		
	CARTHAGE REC - ROCK HILL 138KV CKT 1	6/1/2014	6/1/2014		

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated costs for Each Upgrade

Customer Study Number
 OGE AG3-2006-034

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements	
OGE	1161665	OKGE	SPA	20	2/1/2007	2/1/2012	8/1/2007	8/1/2012	\$ -	\$ 1,080,000	\$ 4,821	\$ 4,884	
										\$ -	\$ 1,080,000	\$ 4,821	\$ 4,884

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1161665	MILLER - WHITE EAGLE 138KV CKT 1	6/1/2011	6/1/2011			\$ 2,821	\$ 300,000	\$ 4,884
Total						\$ 2,821	\$ 300,000	\$ 4,884

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1161665	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		

Third Party Limitations.

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1161665	STRUMAN - HARRISBURG TAP 161KV CKT 1	6/1/2008	6/1/2008			\$ -	\$ -
	STRUMAN - TRUMANN WEST AECC 161KV CKT 1	6/1/2010	6/1/2010			\$ -	\$ -
	JONES - JONESBORO 161KV CKT 1 SWPA	6/1/2007	6/1/2007			\$ 2,000	\$ 2,000
	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			\$ -	\$ -
Total						\$ 2,000	\$ 2,000

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated costs for Each Upgrade

Customer Study Number
 OGE AG3-2006-049

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
OGE	1162077	OKGE	OKGE	384	6/1/2011	6/1/2031			\$ 36,791,640	\$ -	\$ 36,791,640	\$ 156,893,095
									\$ 36,791,640	\$ -	\$ 36,791,640	\$ 156,893,095

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1162077	ARCADIA - SOONER 345KV CKT 1	6/1/2011	6/1/2011			\$ 28,062,977	\$ 65,000,000	\$ 121,725,713
	CIMARRON - NORTHWEST 345KV CKT 1	6/1/2016	6/1/2016			\$ 36,494	\$ 90,000	\$ 105,139
	FAIRMONT TAP - WOODRING 138KV CKT 1	6/1/2011	6/1/2011			\$ 656,007	\$ 850,000	\$ 2,866,445
	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			\$ 3,913,649	\$ 11,208,425	\$ 16,631,038
	ROSEHILL - SOONER 345KV CKT 1 WERE Displacement	6/1/2011	6/1/2011			\$ 2,923,354	\$ 8,372,286	\$ 10,331,823
	WAUKOMIS TAP - WOODRING 138KV CKT 1	6/1/2011	6/1/2011			\$ 1,097,310	\$ 1,500,000	\$ 4,794,734
	Total					\$ 36,791,640	\$ 87,320,711	\$ 156,893,095

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
1162077	5 TRIBES - HANCOCK 161KV CKT 1	6/1/2015	6/1/2015		
	5 TRIBES - PECAN CREEK 161KV CKT 1	6/1/2015	6/1/2015		
	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.

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1162077	PECAN CREEK (PECANCK1) 345/161/13.8KV TRANSFORMER CKT 1	6/1/2015	6/1/2008		
	RIVERSIDE - PECAN CREEK - MUSKOGEE 345 kV	6/1/2015	6/1/2008		

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated costs for Each Upgrade

Customer Study Number
 OMPA AG3-2006-028

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
OMPA	1159596	CSWS	CSWS	41	6/1/2011	6/1/2031			\$ 9,839,263	\$ -	\$ 10,563,366	\$ 30,561,379
									\$ 9,839,263	\$ -	\$ 10,563,366	\$ 30,561,379

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1159596	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 AEPW	6/1/2011	6/1/2011			\$ 497,856	\$ 7,282,800	\$ 1,756,813
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 OKGE	6/1/2011	6/1/2011			\$ 50,204	\$ 734,400	\$ 217,680
	FAIRMONT TAP - WOODRING 138KV CKT 1	6/1/2011	6/1/2011			\$ 62,066	\$ 850,000	\$ 271,200
	HEMPSTEAD - NW TEXARKANA 345KV CKT 1	6/1/2011	6/1/2011			\$ 3,872,871	\$ 57,530,000	\$ 13,407,134
	Hugo - SunnySide 345kv OKGE	6/1/2011	6/1/2011			\$ 63,546	\$ 750,000	\$ 272,151
	Hugo - SunnySide 345kv WFEC	6/1/2011	6/1/2011			\$ 4,236,409	\$ 50,000,000	\$ 10,391,499
	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1 AEPW	6/1/2011	6/1/2011			\$ 226,247	\$ 3,094,000	\$ 782,817
	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1 OKGE	6/1/2011	6/1/2011			\$ 22,815	\$ 312,000	\$ 96,996
	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			\$ 126,714	\$ 2,500,000	\$ 441,173
	SUNNYSIDE (SUNNYSID3) 345/138/13.8KV TRANSFORMER CKT 1	6/1/2011	6/1/2011			\$ 550,732	\$ 6,500,000	\$ 2,357,997
	WAUKOMIS TAP - WOODRING 138KV CKT 1	6/1/2011	6/1/2011			\$ 110,972	\$ 1,500,000	\$ 484,896
Total						\$ 9,839,263	\$ 131,353,200	\$ 30,561,379

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
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		
	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	6/1/2016	6/1/2016		
	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.

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch 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	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1159596	ARKANSAS NUCLEAR ONE 161 - RUSSELLVILLE NORTH 161KV CKT 1	6/1/2011	6/1/2011			\$ -	\$ -
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 ENTR	6/1/2011	6/1/2011			\$ 497,856	\$ 7,282,800
	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1 ENTR	6/1/2011	6/1/2011			\$ 226,247	\$ 3,094,000
	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			\$ -	\$ -
Total						\$ 724,103	\$ 10,376,800

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated costs for Each Upgrade

Customer Study Number
 OMPA AG3-2006-050

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
OMPA	1162095	OKGE	OKGE	73	6/1/2011	6/1/2031			\$ 6,226,805	\$ -	\$ 6,226,805	\$ 26,575,565
									\$ 6,226,805	\$ -	\$ 6,226,805	\$ 26,575,565

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1162095	ARCADIA - SOONER 345KV CKT 1	6/1/2011	6/1/2011			\$ 4,637,634	\$ 65,000,000	\$ 20,116,158
	CIMARRON - NORTHWEST 345KV CKT 1	6/1/2016	6/1/2016			\$ 5,791	\$ 90,000	\$ 16,685
	FAIRMONT TAP - WOODRING 138KV CKT 1	6/1/2011	6/1/2011			\$ 131,927	\$ 850,000	\$ 576,460
	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			\$ 635,171	\$ 11,208,425	\$ 2,699,157
	ROSEHILL - SOONER 345KV CKT 1 WERE Displacement	6/1/2011	6/1/2011			\$ 474,450	\$ 8,372,286	\$ 1,676,817
	WAUKOMIS TAP - WOODRING 138KV CKT 1	6/1/2011	6/1/2011			\$ 291,717	\$ 1,500,000	\$ 1,274,667
	Total					\$ 6,226,805	\$ 87,320,711	\$ 26,575,565

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
1162095	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		
	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		
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	6/1/2016	6/1/2016		

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated costs for Each Upgrade

Customer Study Number
SEPC AG3-2006-113

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
SEPC	1162670	WR	SECI	51	12/1/2007	12/1/2027	1/1/2011	1/1/2031	\$ 1,548	\$ -	\$ 1,548	\$ 4,293
									\$ 1,548	\$ -	\$ 1,548	\$ 4,293

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1162670	CIMARRON - NORTHWEST 345KV CKT 1	6/1/2016	6/1/2016			\$ 1,548	\$ 90,000	\$ 4,293
Total						\$ 1,548	\$ 90,000	\$ 4,293

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
1162670	HAYS PLANT - SOUTH HAYS 115KV CKT 1	6/1/2008	6/1/2010	10/1/2009	
	HAYS PLANT - VINE STREET 115KV CKT 1	6/1/2008	6/1/2010	10/1/2009	
	KNOLL - VINE STREET 115KV CKT 1	6/1/2008	6/1/2010	10/1/2009	
	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		
	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		
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	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.

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch 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	
	RENO - SUMMIT 345KV	6/1/2008	1/1/2011		
	WICHITA - RENO 345KV	12/1/2007	7/1/2009		

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated costs for Each Upgrade

Customer Study Number
UCU AG3-2006-052D

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
UCU	1162075	WR	MPS	51	1/1/2008	1/1/2028	1/1/2011	1/1/2031	\$ -	\$ 19,718,640	\$ 93,029	\$ 322,123
									\$ -	\$ 19,718,640	\$ 93,029	\$ 322,123

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1162075	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1 Displacement	6/1/2008	6/1/2009	10/1/2008		\$ 42,535	\$ 84,235	\$ 166,425
	PLATTE CITY - POPE 161 161KV CKT 1	12/1/2011	12/1/2011			\$ 50,494	\$ 100,000	\$ 155,698
Total						\$ 93,029	\$ 184,235	\$ 322,123

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
1162075	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2011	6/1/2011		
	BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1	6/1/2007	6/1/2008	10/1/2007	
	BUCYRUS - STILWELL 161KV CKT 1	6/1/2016	6/1/2016		
	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1	6/1/2008	6/1/2009	10/1/2008	
	HAYS PLANT - SOUTH HAYS 115KV CKT 1	6/1/2008	6/1/2010	10/1/2009	
	HAYS PLANT - VINE STREET 115KV CKT 1	6/1/2008	6/1/2010	10/1/2009	
	KNOLL - VINE STREET 115KV CKT 1	6/1/2008	6/1/2010	10/1/2009	
	LAKE ROAD 161/34.5KV TRANSFORMER	12/1/2008	6/1/2009	4/1/2009	
	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2007	8/1/2007		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch 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.

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1162075	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2011		
	NASHUA and ST JOE Capacitors	12/1/2007	6/1/2007		
	RENO - SUMMIT 345KV	6/1/2008	1/1/2011		
	Warrensburg East 161KV Capacitor	6/1/2008	8/1/2006		
	WICHITA - RENO 345KV	12/1/2007	7/1/2009		

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated costs for Each Upgrade

Customer Study Number
UCU AG3-2006-088D

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
UCU	1162678	WR	MPS	25	1/1/2008	1/1/2028	1/1/2011	1/1/2031	\$ -	\$ 9,666,000	\$ 45,603	\$ 157,905
UCU	1162681	WR	MPS	25	1/1/2008	1/1/2028	1/1/2011	1/1/2031	\$ -	\$ 9,666,000	\$ 45,603	\$ 157,905
									\$ -	\$ 19,332,000	\$ 91,206	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1162678	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1 Displacement	6/1/2008	6/1/2009	10/1/2008		\$ 20,850	\$ 84,235	\$ 81,579
	PLATTE CITY - POPE 161 161KV CKT 1	12/1/2011	12/1/2011			\$ 24,753	\$ 100,000	\$ 76,326
					Total	\$ 45,603	\$ 184,235	\$ 157,905
1162681	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1 Displacement	6/1/2008	6/1/2009	10/1/2008		\$ 20,850	\$ 84,235	\$ 81,579
	PLATTE CITY - POPE 161 161KV CKT 1	12/1/2011	12/1/2011			\$ 24,753	\$ 100,000	\$ 76,326
					Total	\$ 45,603	\$ 184,235	\$ 157,905

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
1162678	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2011	6/1/2011		
	BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1	6/1/2007	6/1/2008	10/1/2007	
	BUCYRUS - STILWELL 161KV CKT 1	6/1/2016	6/1/2016		
	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1	6/1/2008	6/1/2009	10/1/2008	
	HAYS PLANT - SOUTH HAYS 115KV CKT 1	6/1/2008	6/1/2010	10/1/2009	
	HAYS PLANT - VINE STREET 115KV CKT 1	6/1/2008	6/1/2010	10/1/2009	
	KNOLL - VINE STREET 115KV CKT 1	6/1/2008	6/1/2010	10/1/2009	
	LAKE ROAD 161/34.5KV TRANSFORMER	12/1/2008	6/1/2009	4/1/2009	
	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2007	8/1/2007		
1162681	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2011	6/1/2011		
	BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1	6/1/2007	6/1/2008	10/1/2007	
	BUCYRUS - STILWELL 161KV CKT 1	6/1/2016	6/1/2016		
	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1	6/1/2008	6/1/2009	10/1/2008	
	HAYS PLANT - SOUTH HAYS 115KV CKT 1	6/1/2008	6/1/2010	10/1/2009	
	HAYS PLANT - VINE STREET 115KV CKT 1	6/1/2008	6/1/2010	10/1/2009	
	KNOLL - VINE STREET 115KV CKT 1	6/1/2008	6/1/2010	10/1/2009	
	LAKE ROAD 161/34.5KV TRANSFORMER	12/1/2008	6/1/2009	4/1/2009	
	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2007	8/1/2007		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1162678	LACYGNE - WEST GARDNER 345KV CKT 1	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.

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1162678	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2011		
	NASHUA and ST JOE Capacitors	12/1/2007	6/1/2007		
	RENO - SUMMIT 345KV	6/1/2008	1/1/2011		
	Warrensburg East 161kv Capacitor	6/1/2008	8/1/2006		
	WICHITA - RENO 345KV	12/1/2007	7/1/2009		
1162681	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2011		
	NASHUA and ST JOE Capacitors	12/1/2007	6/1/2007		
	RENO - SUMMIT 345KV	6/1/2008	1/1/2011		
	Warrensburg East 161kv Capacitor	6/1/2008	8/1/2006		
	WICHITA - RENO 345KV	12/1/2007	7/1/2009		

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated costs for Each Upgrade

Customer **Study Number**
 WRGS AG3-2006-024D

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
WRGS	1161506	WR	WR	380	5/1/2008	5/1/2014	1/1/2011	1/1/2017	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1161506	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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
1161506	BOEING - STEARMAN 138KV CKT 1	6/1/2008	6/1/2009		Yes
	CRRM 269.0 - LIBERTY 69KV CKT 1	12/1/2011	12/1/2011		
	DEARING (DEARIN1X) 138/69/13.2KV TRANSFORMER CKT 1	12/1/2011	12/1/2011		
	Evans - Grant - Chisolm Rebuild and Conversion Project	6/1/2008	6/1/2009	10/1/2008	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		

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	Earliest Service Start Date	Redispatch Available
1161506	RENO - SUMMIT 345KV	6/1/2008	1/1/2011		Yes
	WICHITA - RENO 345KV	12/1/2007	7/1/2009		Yes

Table 3 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated costs for Each Upgrade

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

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
WRGS	1140120	WR	WR	360	5/1/2009	5/1/2015	1/1/2011	1/1/2017	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1140120	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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
1140120	BOEING - STEARMAN 138KV CKT 1	6/1/2008	6/1/2009		Yes
	CRRM 269.0 - LIBERTY 69KV CKT 1	12/1/2011	12/1/2011		
	DEARING (DEARIN1X) 138/69/13.2KV TRANSFORMER CKT 1	12/1/2011	12/1/2011		
	Evans - Grant - Chisolm Rebuild and Conversion Project	6/1/2008	6/1/2009	10/1/2008	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		

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	Earliest Service Start Date	Redispatch Available
1140120	RENO - SUMMIT 345KV	6/1/2008	1/1/2011		Yes
	WICHITA - RENO 345KV	12/1/2007	7/1/2009		Yes

Table 4 - Upgrade Requirements and Solutions Needed to Provide Transmission Service for the Aggregate Study

Transmission Owner	Upgrade	Solution	Earliest Data Upgrade Required (COD)	Estimated Date of Upgrade Completion (EOC)	Estimated Engineering & Construction Cost
AEPW	ARSENAL HILL - FORT HUMBURG 138KV CKT 1	Rebuild 3.24 miles of 1272 AAC with 2156 ACSR. Replace 3 switches, breaker jumpers, and reset CTs @ Arsenal Hill. Replace 2 switches and jumpers @ Fort Humburg	6/1/2010	6/1/2010	\$ 2,750,000
AEPW	ARSENAL HILL - MCWILLIE STREET 138KV CKT 1	Replace Arsenal Hill switches and jumper	6/1/2010	6/1/2010	\$ 100,000
AEPW	ARSENAL HILL - NORTH MARKET 69KV CKT 1 Displacement	Rebuild 2.3 miles of 666 ACSR with 1272 ACSR	6/1/2010	6/1/2010	\$ 83,203
AEPW	ARSENAL HILL - WATERWORKS 69KV CKT 1	Rebuild 2.55 miles of 666 ACSR with 1272 ACSR	6/1/2010	6/1/2010	\$ 2,000,000
AEPW	ARSENAL HILL (ARSHILL 1) 138/69/12.47KV TRANSFORMER CKT 1	Replace auto & 69 kV breaker and switcher	6/1/2010	6/1/2010	\$ 2,500,000
AEPW	ARSENAL HILL (ARSHILL2) 138/69/14.5KV TRANSFORMER CKT 2	Replace auto & 69 kV breaker and switcher	6/1/2010	6/1/2010	\$ 2,500,000
AEPW	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 AEPW	Rebuild 17.96 miles of 250 Copperweld with 795 ACSR	6/1/2011	6/1/2011	\$ 7,282,800
AEPW	DIANA - PERDUJE 138KV CKT 1	Replace Breakers 9310 & 10080 & five switches @ Perdue. Replace switch 12798 @ Diana	6/1/2016	6/1/2016	\$ 750,000
AEPW	DYESS - ELM SPRINGS REC 161KV CKT 1	Replace Elm Springs switch. Rebuild 5.17 miles of line.	6/1/2011	6/1/2011	\$ 5,000,000
AEPW	DYESS - TONTITOWN 161KV CKT 1	Replace Dyess Breaker, Switches, & wavetraps	6/1/2016	6/1/2016	\$ 500,000
AEPW	ELM SPRINGS REC - TONTITOWN 161KV CKT 1	Replace Wavetraps and switch jumpers	6/1/2016	6/1/2016	\$ 50,000
AEPW	HEMPSTEAD - NW TEXARKANA 345KV CKT 1	Build 33 miles of 2-795MCM ACSR from Turk NW Texarkana. Add 345KV terminal at NW Texarkana. Add 345KV terminal at Turk	6/1/2011	6/1/2011	\$ 57,530,000
AEPW	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1 AEPW	Rebuild 7.43 miles of 250 CWC with 795 ACSR	6/1/2011	6/1/2011	\$ 3,094,000
AEPW	SOUTH TEXARKANA REC - TEXARKANA PLANT 69KV CKT 1	Rebuild 5.92 miles of 266 ACSR with 795 ACSR. Replace switches, jumpers, and reset CTs & relays @ Texarkana Plant	6/1/2011	6/1/2011	\$ 4,000,000
AEPW	SOUTHWEST SHREVEPORT - SOUTHWEST SHREVEPORT TAP 138KV CKT 1 Displacement	Rebuild 2.29 miles of 2-307.5 ACSR with 1550 ACSR.	6/1/2008	4/1/2009	\$ 287,909
AEPW	SOUTHWEST SHREVEPORT (SW SHV 1) 345/138/13.8KV TRANSFORMER CKT 1 DISPLACEMENT	Using IEEE Guide for Loading of Mineral-Oil Immersed Power Transformers (C57.91-2000) Re-rate the autos. Replace two 138 kV breakers and five 138 kV switches. Reset relays and CTs	6/1/2008	6/1/2009	\$ 55,139
AEPW	SOUTHWEST SHREVEPORT (SW SHV 1) 345/138/13.8KV TRANSFORMER CKT 2 DISPLACEMENT	Using IEEE Guide for Loading of Mineral-Oil Immersed Power Transformers (C57.91-2000) Re-rate the autos. Replace two 138 kV breakers and five 138 kV switches. Reset relays and CTs	6/1/2008	6/1/2009	\$ 55,139
AEPW	SUGAR HILL (SUGAR HL) 138/69/12.47KV TRANSFORMER CKT 1	Replace auto & 69 kV breaker and switches or Add 2nd Aut	6/1/2011	6/1/2011	\$ 2,500,000
MIPU	PLATTE CITY - POPE 161 161KV CKT 1	Replace wavetraps	12/1/2011	12/1/2011	\$ 100,000
OKGE	ARCADIA - SOONER 345KV CKT 1	Build 65 miles of 345KV line from Sooner to Arcadia. Add Terminal equipment at each end	6/1/2011	6/1/2011	\$ 65,000,000
OKGE	CANADIAN - CEDAR LAKE 138KV CKT 1	Replace an 800A trap to 1200A	6/1/2011	6/1/2011	\$ 75,000
OKGE	CIMARRON - NORTHWEST 345KV CKT 1	Replace trap at Cimarron Substation	6/1/2016	6/1/2016	\$ 90,000
OKGE	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 OKGE	Rebuild 17.96 miles of 250 Copperweld with 795 ACSR	6/1/2011	6/1/2011	\$ 734,400
OKGE	FAIRMONT TAP - WOODRING 138KV CKT 1	Reconductor .75 with ACCC conductor. Increase CTRs to at least 1600-5 ratio. Line relays will need to check to determine if replacement is needed.	6/1/2011	6/1/2011	\$ 850,000
OKGE	FRANKLIN SW - MIDWEST TAP 138KV CKT 1 OKGE Displacement	Reconductor 1.27 miles of line to 1590AS52. WFEC will have to provide upgrade solution also for their Franklin (WFEC).	6/1/2014	6/1/2014	\$ 57,917
OKGE	Hugo - Sunnyside 345KV OKGE	Install breaker, switches, and relay	6/1/2011	6/1/2011	\$ 750,000
OKGE	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1 OKGE	Rebuild 7.43 miles of 250 CWC with 795 ACSR	6/1/2011	6/1/2011	\$ 312,000
OKGE	MILLER - WHITE EAGLE 138KV CKT 1	Replace line relay at White Eagle & Cont. Empire	6/1/2011	6/1/2011	\$ 300,000
OKGE	ROSEHILL - SOONER 345KV CKT 1 OKGE Displacement	New 345 kv line from Sooner to Oklahoma/Kansas	6/1/2011	6/1/2011	\$ 11,208,425
OKGE	SUNNYSIDE (SUNNYSID3) 345/138/13.8KV TRANSFORMER CKT 1	Add 2nd 345/138KV Auto	6/1/2011	6/1/2011	\$ 6,500,000
OKGE	WAUKOMIS TAP - WOODRING 138KV CKT 1	Reconductor 2.75 of line with Drake ACCC conductor and increase CTR.	6/1/2011	6/1/2011	\$ 1,500,000
WERE	96TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1 Displacement	Rebuild 7.61 miles from 95th & Waverly-Captain Junction 115 kv line.	6/1/2008	6/1/2009	\$ 84,235
WERE	ROSEHILL - SOONER 345KV CKT 1 WERE Displacement	New 345 kv line from Oklahoma/Kansas Stateline to Rose Hi	6/1/2011	6/1/2011	\$ 8,372,286
WFEC	FRANKLIN SW - MIDWEST TAP 138KV CKT 1 WFEC	Replace switches and wavetraps at Franklin Switch to 2000f	6/1/2014	6/1/2014	\$ 100,000
WFEC	Hugo - Sunnyside 345kv WFEC	Add 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.

Transmission Owner	Upgrade	Solution	Earliest Data Upgrade Required (COD)	Estimated Date of Upgrade Completion (EOC)
AEPW	CHAMBER SPRINGS - TONTITOWN 161KV CKT 1	Reconductor 666 ACSR (11.6 miles) 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 Tontitown 161 kv line	12/1/2007	12/1/2007
AEPW	Chamber Springs - Tontitown 345 kv	New 345 kv Line and Tontitown 345/161 kv Transforme	6/1/2008	6/1/2008
MIPU	IATAN - ST JOE 345KV CKT 1	Circuit Breaker	6/1/2011	6/1/2011
MIPU	NASHUA and ST JOE Capacitors	Install 50 MVAR at Nashua 161 kv and at St Joe 161 kv	12/1/2007	6/1/2007
MIPU	Warrensburg East 161kv Capacitors	Install 40 MVAR capacitor at Warrensburg East 161kv bus	6/1/2008	8/1/2008
OKGE	PECAN CREEK (PEGANCK1) 345/161/13.8KV TRANSFORMER CKT 1	Add a 345/161 kv 369MVA transformer	6/1/2015	6/1/2008
OKGE	RIVERSIDE - PECAN CREEK - MUSKOGEE 345 kv	Tap Riverside - Muskogee 345 kv line and add second Pecan Creek 345 kv source	6/1/2015	6/1/2008
SUNC	PHILLIPSBURG - RHOADES	Install 35 miles 115 kv from Phillipsburgsubstation to Rhoades	6/1/2008	12/1/2008
WERE	RENO - SUMMIT 345KV	Install new 50.55-mile 345 kv line from Reno county to Summit; 31 miles of 115 kv line between Circle and S Philips would be rebuilt as double circuit with the 345 kv line to minimize ROW impacts;	6/1/2008	1/1/2011
WERE	WICHITA - RENO 345KV	Substation work required at Summit for new 345 kv terminal	12/1/2007	7/1/2009

Table 4 - Upgrade Requirements and Solutions Needed to Provide Transmission Service for the Aggregate Study

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

Transmission Owner	Upgrade	Solution	Earliest Data Upgrade Required (COD)	Estimated Date of Upgrade Completion (EOC)
AEPW	ALUMAX TAP - NORTHWEST TEXARKANA 138KV CKT 1	Rebuild 1.68 miles of 1024 ACAR with 2156 ACSR, Replace wavetraps & jumpers with 2156 ACSR, Replace Switch 2285 @ Alumax Tap.	6/1/2008	6/1/2008
AEPW	BROKEN BOW - CRAIG JUNCTION 138KV CKT 1	Rebuild 7.66 miles of 310 CTR CU with 795 ACSR	12/1/2007	5/7/2009
AEPW	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
AEPW	FLINT CREEK - GENTRY REC 161KV CKT 1	Rebuild 1.09 miles of 2-397.5 ACSR with 2156 ACSR, Replace Flint Creek wavetraps & jumpers	6/1/2016	6/1/2016
AEPW	LINWOOD - MCWILLIE STREET 138KV CKT 1	Rebuild 2.09 miles of 666 ACSR with 1272 ACSR	6/1/2007	6/1/2008
AEPW	PORT ROBSON - REDPOINT 138KV	New 138 KV line from Port Robson - Red Point via McDade & Haughton, Convert McDade & Haughton to 138 kv.	6/1/2011	6/1/2011
AEPW	Siloam Springs - South Fayetteville 161 kv	Convert Existing 69 kv Line to 161 kv Operator	6/1/2016	6/1/2016
AEPW/WFEC	SNYDER - SNYDER INTERCONNECTION	New Tie line between AEPW's Snyder and WFEC's Snyder	6/1/2016	6/1/2016
GRDA	412SUB - KANSAS TAP 161KV CKT 1	Reconductor 9.7 miles with 1590MCM ACSR	6/1/2015	3/1/2009
GRDA	412SUB - KERR 161KV CKT 1	Reconductor 12.5 miles with 1590MCM ACSR	6/1/2015	3/1/2009
KACP	BUCYRUS - STILWELL 161KV CKT 1	Upgrade Wavetraps at Stilwell from 800 amps to 1200 amps	6/1/2016	6/1/2016
MIDW	HAYS PLANT - SOUTH HAYS 115KV CKT 1	Reconductor Line	6/1/2008	6/1/2010
MIDW	HAYS PLANT - VINE STREET 115KV CKT 1	Reconductor Line	6/1/2008	6/1/2010
MIDW	KNOLL - VINE STREET 115KV CKT 1	Reconductor Line	6/1/2008	6/1/2010
MIPU	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CKT 1	Reconductor with bundled Drake	6/1/2011	6/1/2011
MIPU	BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1	Reconductor 2.5 miles with bundled Drake	6/1/2007	6/1/2008
MIPU	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1	Replace Wave Trap	6/1/2008	6/1/2009
MIPU	LAKE ROAD - 161/34.5KV TRANSFORMER	Transformer Upgrade	12/1/2008	6/1/2009
MIPU	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	Replace Wavetraps at Martin City	6/1/2007	6/1/2007
OKGE	5 TRIBES - HANCOCK 161KV CKT 1	Replace 800A Wave Trap, increase Relay CTR to 1200-5A	6/1/2015	6/1/2015
OKGE	5 TRIBES - PECAN CREEK 161KV CKT 1	replace 636AS33 conductor with 795AS33	6/1/2015	6/1/2015
OKGE	BONANZA - BONANZA TAP 161KV CKT 1	Rebuild 0.06 miles of 397 ACSR with 1272 ACSR & reset relay @ Bonanza or Bonanza T-Excelsior-Midland-N. Huntington 161 kv loop	6/1/2015	6/1/2015
OKGE	COLONY - FT SMITH 161KV CKT 1	Reconductor 2.2 miles to Drake ACCCTW and change terminal equipment at Ft. Smith & Colony to 200A.	6/1/2011	6/1/2011
RAYBURN	BEN WHEELER - BARTONS CHAPEL	Diana - Bartons Chapel & Ben Wheeler - Bartons Chape	6/1/2016	6/1/2016
SPS	CARLSBAD PLANT 115/69KV TRANSFORMERS	Upgrade to 75 MVA transformer	6/1/2007	6/1/2009
SPS	Mooreland - Potter 345 kv SPS	New 345 kv line from Potter to Mooreland on wooden h-frame structures.	6/1/2015	6/1/2015
SWPA	BULL SHOALS - BULL SHOALS 161KV CKT 1	Replace buswork in Bull Shoals switchyard	6/1/2011	6/1/2011
SUNC	Spearville - Mooreland 345 kv SUNC	New 345 kv line from Spearville to Kansas/Oklahoma Stateline	6/1/2015	6/1/2015
WERE	BOEING - STEARMAN 138KV CKT 1	Upgrade 1.95 mile Boeing-Stearman 138 kv line	6/1/2008	6/1/2009
WERE	CRRM - 269.0 LIBERTY 69KV CKT 1	Replace terminal equipment on Liberty - CRA 69 kv line	12/1/2011	12/1/2011
WERE	DEARING (DEARIN1X) 138/69/13.2KV TRANSFORMER CKT 1	2nd Dearing 138-69 kv Transforme	12/1/2011	12/1/2011
WERE	Evans - Grant - Chisolm Rebuild and Conversion Project	Build Evans - Grant 138 kv line, Rebuild and Convert Grant - Chisolm 69 kv line to 138 kv, Install New Grant 138/69 kv XFMR. And Rebuild Grant - Grant Jct. 69 kv line.	6/1/2008	6/1/2009
WERE	GILL ENERGY CENTER EAST - INTERSTATE 138KV CKT 1	Replace wave trap	6/1/2016	6/1/2016
WERE	STRANGER CREEK TRANSFORMER CKT 2	Install second Stranger Creek 345-115 transforme	6/1/2009	6/1/2009
WFEC	Mooreland - Potter 345 kv WFEC	345 kv line Terminal	6/1/2015	6/1/2015
WFEC	Mooreland 345/138 kv Transforme	New Mooreland 345/138 kv Transforme	6/1/2015	6/1/2015
WFEC	Spearville - Mooreland 345 kv WFEC	New 345 kv line from Kansas/Oklahoma Stateline to Mooreland	6/1/2015	6/1/2015

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

Transmission Owner	Upgrade	Solution	Earliest Data Upgrade Required (COD)	Estimated Date of Upgrade Completion (EOC)
AEPW	HUGO POWER PLANT - VALLIANT 345 KV AEPW	Valiant 345 kv line terminal	5/1/2010	5/1/2010
KACP	LACYGNE - WEST GARDNER 345KV CKT 1	KCPJ Sponsored Project to Reconductor Line to be In-Service by 6/1/2006	6/1/2006	6/1/2006
OKGE	ARCADIA - REDBUD 345 KV CKT 1	Sponsored Project to Upgrade Terminal Equipmen	6/1/2006	6/1/2006
OKGE	ARCADIA - REDBUD 345 KV CKT 2	Sponsored Project to Upgrade Terminal Equipmen	6/1/2006	6/1/2006
OKGE	FPL SWITCH - MOORELAND 138KV CKT 1 OKGE	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 be at WFEC's Mooreland at 300A & 600A.	6/1/2006	4/1/2008
WFEC	FPL SWITCH - MOORELAND 138KV CKT 1 WFEC	Upgrade terminal equipment FPL Sw & Mooreland	6/1/2006	4/1/2008
WFEC	HUGO POWER PLANT - VALLIANT 345 KV WFEC	New 345/138 kv Auto, and 19 miles 345 kv	5/1/2010	5/1/2010

Table 5 - Third Party Facility Constraints

Transmission Owner	UpgradeName	Solution	Earliest Data Upgrade Required (COD)	Estimated Date of Upgrade Completion (EOC)	Estimated Engineering & Construction Cost
ENTR	3GRENWD 115 - HUMPHREY 115KV CKT 1	Indeterminate	6/1/2007	6/1/2007	Indeterminate
ENTR	3GRENWD 115 - TERREBONNE 115KV CKT 1	Indeterminate	6/1/2007	6/1/2007	Indeterminate
ENTR	4KSPRGS 138 - CHAMPAGNE 138KV CKT 1	Indeterminate	6/1/2007	6/1/2007	Indeterminate
ENTR	4KSPRGS 138 - LINE 642 TAP 138KV CKT 1	Indeterminate	6/1/2007	6/1/2007	Indeterminate
ENTR	5FLIPN - BULL SHOALS HES 161KV CKT 1	Indeterminate	6/1/2011	6/1/2011	Indeterminate
ENTR	5HILLTOP 161 - 5ST_JOE 161 161KV CKT 1	Indeterminate	6/1/2011	6/1/2011	Indeterminate
ENTR	5ST_JOE 161 - EVERTON 161KV CKT 1	Indeterminate	6/1/2011	6/1/2011	Indeterminate
ENTR	5TRUMAN - HARRISBURG TAP 161KV CKT 1	Indeterminate	6/1/2008	6/1/2008	Indeterminate
ENTR	5TRUMAN - TRUMANN WEST AECC 161KV CKT 1	Indeterminate	6/1/2010	6/1/2010	Indeterminate
ENTR	8WELLS 500 - WEBRE 500KV CKT 1	Indeterminate	6/1/2008	6/1/2008	Indeterminate
ENTR	ARKANSAS NUCLEAR ONE 161 - RUSSELLVILLE NORTH 161KV CKT 1	Indeterminate	6/1/2011	6/1/2011	Indeterminate
ENTR	CLARENCE - MONTGOMERY 230KV CKT 1	Indeterminate	6/1/2011	6/1/2011	Indeterminate
ENTR	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1 ENTR	Rebuild 17.96 miles of 250 Copperweld with 795 ACSR.	6/1/2011	6/1/2011	\$ 7,282,800
ENTR	EVERTON - HARRISON-EAST 161KV CKT 1	Indeterminate	6/1/2011	6/1/2011	Indeterminate
ENTR	GIBSON - HUMPHREY 115KV CKT 1	Indeterminate	6/1/2007	6/1/2007	Indeterminate
ENTR	GIBSON - RAMOS 138KV CKT 1	Indeterminate	6/1/2007	6/1/2007	Indeterminate
ENTR	GIBSON 138/115KV TRANSFORMER CKT 1	Indeterminate	6/1/2008	6/1/2008	Indeterminate
SWPA	JONES - JONESBORO 161KV CKT 1 SWPA	Change the ratio on the metering CTs to 1200/5 and adjust the meters for	6/1/2007	6/1/2007	\$ 2,000
ENTR	JONESBORO - JONESBORO NORTH (AECC) 161KV CKT 1	Indeterminate	6/1/2010	6/1/2010	Indeterminate
ENTR	JONESBORO NORTH (AECC) - PARAGOULD SOUTH (AECC) 161KV CKT 1	Indeterminate	6/1/2010	6/1/2010	Indeterminate
ENTR	LINE 642 TAP - LIVONIA BULK 138KV CKT 1	Indeterminate	6/1/2007	6/1/2007	Indeterminate
ENTR	LIVONIA BULK - WILBERT 138KV CKT 1	Indeterminate	6/1/2007	6/1/2007	Indeterminate
ENTR	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1 ENTR	Rebuild 7.43 miles of 250 CWC with 795 ACSR	6/1/2011	6/1/2011	\$ 3,094,000
ENTR	RUSSELLVILLE EAST - RUSSELLVILLE NORTH 161KV CKT 1	Indeterminate	6/1/2011	6/1/2011	Indeterminate
ENTR	RUSSELLVILLE EAST - RUSSELLVILLE SOUTH 161KV CKT 1	Indeterminate	6/1/2011	6/1/2011	Indeterminate
ENTR	TERREBONNE 230/115KV TRANSFORMER CKT 1	Indeterminate	6/1/2008	6/1/2008	Indeterminate
ENTR	WEBRE/RICHARD	Indeterminate	6/1/2008	6/1/2008	Indeterminate

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

MIPU	'GREENWOOD 161KV'	255.8	-0.18486	SWPA	'SIKESTON 161KV'	235	-0.00039	-0.18447	22
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00161	-0.18325	22
WERE	'HOLTON 115KV'	19.8	0.00428	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.18703	22
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.17998	22
WERE	'SOUTH SENECA 115KV'	16.7	0.00648	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.18483	22
SWPA	'TRUMAN 161KV'	78.00002	-0.02176	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.18542	22
MIPU	'ARIES 161KV'	595	-0.14166	MIPU	'LAKE ROAD 161KV'	35	0.03559	-0.17725	23
MIPU	'ARIES 161KV'	595	-0.14166	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.17725	23
MIPU	'ARIES 161KV'	595	-0.14166	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.1791	23
MIPU	'ARIES 161KV'	595	-0.14166	KACP	'NORTHEAST 161KV'	73	0.03744	-0.1791	23
SWPA	'BEAVER 161KV'	27.49958	-0.00836	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.17202	23
WERE	'CHANUTE 69KV'	31.077	-0.01063	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.17429	23
WERE	'CITY OF AUGUSTA 69KV'	10.141	-0.00874	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.1724	23
WERE	'CITY OF BURLINGTON 69KV'	21.247	-0.01149	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.17515	23
WERE	'CITY OF FREDONIA 69KV'	9.173	-0.00971	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.17337	23
WERE	'CITY OF IOLA 69KV'	13.361	-0.01137	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.17503	23
WERE	'CITY OF WINFIELD 69KV'	12.038	-0.00883	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.17196	23
WERE	'EVANS ENERGY CENTER 138KV'	8	-0.00874	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.1724	23
WERE	'GETTY 69KV'	35	-0.00859	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.17225	23
WERE	'GILL ENERGY CENTER 138KV'	49	-0.00857	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.17223	23
WERE	'GILL ENERGY CENTER 69KV'	8	-0.00864	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.1723	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	SWPA	'BEAVER 161KV'	136.1001	-0.00836	-0.1765	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	SWPA	'BULL SHOALS 161KV'	278.7	-0.00555	-0.17931	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	SWPA	'CARTHAGE 69KV'	30	-0.01201	-0.17285	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	WERE	'CHANUTE 69KV'	56.723	-0.01063	-0.17423	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00874	-0.17612	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	WERE	'CITY OF BURLINGTON 69KV'	34.753	-0.01149	-0.17337	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	WERE	'CITY OF ERIE 69KV'	23.27	-0.01063	-0.17423	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	WERE	'CITY OF IOLA 69KV'	24.267	-0.01137	-0.17349	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	WERE	'CITY OF MULVANE 69KV'	8.288	-0.00885	-0.17601	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	WERE	'CITY OF WINFIELD 69KV'	27.962	-0.00883	-0.17656	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	-0.01149	-0.17337	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	SWPA	'DENISON 138KV'	59.40001	-0.00573	-0.17913	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	SWPA	'EUFAULA 138KV'	51	-0.00592	-0.17894	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	SWPA	'EUFAULA 161KV'	69.6	-0.00592	-0.17894	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.00874	-0.17612	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	WERE	'GILL ENERGY CENTER 138KV'	171	-0.00857	-0.17629	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	WERE	'GILL ENERGY CENTER 69KV'	75	-0.00864	-0.17622	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	SWPA	'KEYSTONE DAM 161KV'	150.2	-0.00735	-0.17751	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	WERE	'WAGO 138KV'	17.96	-0.00859	-0.17627	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	SWPA	'WEBBERS FALLS 161KV'	39	-0.00614	-0.17872	23
MIPU	'NEVADA 69KV'	20.3	-0.04504	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.1765	23
SWPA	'BROKEN BOW 138KV'	16.6	-0.00466	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16832	24
KACP	'BULL CREEK 161KV'	65	-0.0041	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16776	24
SWPA	'BULL SHOALS 161KV'	110.9	-0.00555	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16921	24
WERE	'CITY OF OSAGE CITY 115KV'	8.85	-0.00451	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16817	24
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.00186	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16552	24
SWPA	'DENISON 138KV'	10.59999	-0.00573	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16939	24
WERE	'EMPORIA 345KV'	828	-0.00746	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.17112	24
SWPA	'EUFAULA 138KV'	9.000004	-0.00592	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16958	24
SWPA	'EUFAULA 161KV'	12.4	-0.00592	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16958	24
KACP	'GARDNER 161KV'	11	-0.00493	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16859	24
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	KACP	'LACYGNE UNIT 345KV'	958	-0.01404	-0.17082	24
SWPA	'GREERS FERRY 161KV'	16.6	-0.00286	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16652	24
SWPA	'INDEPENDENCE 161KV'	13	-0.00255	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16621	24
SWPA	'KEYSTONE DAM 161KV'	50	-0.00735	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.17101	24
WERE	'LAWRENCE ENERGY CENTER 230KV'	43.27051	-0.00267	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16633	24
KACP	'MARSHALL 161KV'	54.1	-0.03658	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.16804	24
SWPA	'OZARK 161KV'	64.90001	-0.00463	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16829	24
SWPA	'PARAGOULD 69KV'	12	-0.00135	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16501	24
SWPA	'ROBERT S. KERR 161KV'	74.5	-0.00524	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.1689	24
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.00147	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16513	24
SWPA	'WEBBERS FALLS 161KV'	30	-0.00614	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.1698	24
WERE	'BPU - CITY OF MCPHERSON 115KV'	21.02441	-0.00072	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16438	25
SWPA	'CLARENCE CANNON DAM 69KV'	8.799999	0.00407	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.15959	25
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	-0.0208	-0.16406	25
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	SWPA	'TRUMAN 161KV'	102	-0.02176	-0.1631	25
WERE	'HOLTON 115KV'	19.8	0.00428	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.15938	25
WERE	'HUTCHINSON ENERGY CENTER 115KV'	141	-0.00062	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16428	25
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	-0.00062	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16428	25
WERE	'JEFFREY ENERGY CENTER 230KV'	24	-0.0003	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16396	25
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.0005	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16316	25
SWPA	'KENNETT 69KV'	21.8	-0.001	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16466	25
SWPA	'MALDEN 69KV'	10	-0.0008	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16446	25
KACP	'MONTROSE 161KV'	27.68829	-0.02851	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.15997	25
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	INDN	'SUB H 69KV'	29.07014	0.11176	-0.16028	25
MIPU	'ARIES 161KV'	595	-0.14166	KACP	'IATAN 345KV'	396	0.01567	-0.15733	26
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	KACP	'MONTROSE 161KV'	353.3117	-0.02851	-0.15635	26
MIPU	'LAKE ROAD 161KV'	91	0.03559	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.15572	26
MIPU	'NEVADA 69KV'	20.3	-0.04504	INDN	'SUB H 69KV'	29.07014	0.11176	-0.1568	26
KACP	'NORTHEAST 13KV'	70.17432	0.03744	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.15387	26
KACP	'NORTHEAST 161KV'	96	0.03744	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.15387	26
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	KACP	'HAWTHORN 161KV'	769	0.04069	-0.15407	26
WERE	'SOUTH SENECA 115KV'	16.7	0.00648	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.15718	26
SWPA	'TRUMAN 161KV'	78.00002	-0.02176	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.15322	26
KACP	'MARSHALL 161KV'	54.1	-0.03658	INDN	'SUB H 69KV'	29.07014	0.11176	-0.14834	27
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	MIPU	'LAKE ROAD 161KV'	35	0.03559	-0.14897	27
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.14897	27
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.15082	27
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	KACP	'NORTHEAST 161KV'	73	0.03744	-0.15082	27
MIPU	'ARIES 161KV'	595	-0.14166	SWPA	'CLARENCE CANNON DAM 69KV'	39.2	0.00407	-0.14573	28
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.0005	-0.14216	28
WERE	'CHANUTE 69KV'	31.077	-0.01063	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.14209	28
WERE	'CITY OF BURLINGTON 69KV'	21.247	-0.01149	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.14295	28
WERE	'CITY OF IOLA 69KV'	13.361	-0.01137	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.14283	28
MIPU	'NEVADA 69KV'	20.3	-0.04504	INDN	'MOCT 69KV'	30.8	0.0981	-0.14314	28
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	INDN	'MOCT 69KV'	30.8	0.0981	-0.14662	28
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00155	-0.14011	29
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'BPU - CITY OF MCPHERSON 115KV'	152.9756	-0.00072	-0.14094	29
MIPU	'ARIES 161KV'	595	-0.14166	SWPA	'BROKEN BOW 138KV'	93.4	-0.00466	-0.137	29
MIPU	'ARIES 161KV'	595	-0.14166	KACP	'BULL CREEK 161KV'	308	-0.0041	-0.13756	29
MIPU	'ARIES 161KV'	595	-0.14166	SWPA	'GREERS FERRY 161KV'	93.4	-0.00286	-0.1388	29
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	-0.00062	-0.14104	29

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

MIPU	'ARIES 161KV'	595	-0.14166	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	-0.00062	-0.14104	29
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.0003	-0.14136	29
MIPU	'ARIES 161KV'	595	-0.14166	SWPA	'JONESBORO 161KV'	63	-0.00161	-0.14005	29
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'LAWRENCE ENERGY CENTER 230KV'	225.7295	-0.00267	-0.13899	29
MIPU	'ARIES 161KV'	595	-0.14166	SWPA	'OZARK 161KV'	130.6	-0.00463	-0.13703	29
MIPU	'ARIES 161KV'	595	-0.14166	SWPA	'SIKESTON 161KV'	235	-0.00039	-0.14127	29
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00161	-0.14005	29
SWPA	'BEAVER 161KV'	27.49995	-0.00836	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13982	29
SWPA	'BULL SHOALS 161KV'	110.9	-0.00555	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13701	29
WERE	'CITY OF AUGUSTA 69KV'	10.141	-0.00874	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.1402	29
WERE	'CITY OF WINFIELD 69KV'	12.038	-0.0083	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13976	29
SWPA	'DENISON 138KV'	10.59999	-0.00573	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13719	29
WERE	'EMPORIA 345KV'	828	-0.00746	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13892	29
SWPA	'EUFULA 161KV'	12.4	-0.00592	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13738	29
WERE	'GETTY 69KV'	35	-0.00859	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.14005	29
WERE	'GILL ENERGY CENTER 138KV'	49	-0.00857	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.14003	29
SWPA	'KEYSTONE DAM 161KV'	50	-0.00735	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13881	29
KACP	'MONROSE 161KV'	27.68829	-0.02851	INDN	'SUB H 69KV'	29.07014	0.11176	-0.14027	29
MIPU	'TWA 161KV'	32.1	0.05031	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.141	29
SWPA	'WEBBERS FALLS 161KV'	30	-0.00614	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.1376	29
MIPU	'ARIES 161KV'	595	-0.14166	SWPA	'BEAVER 161KV'	138.1001	-0.00836	-0.1333	30
MIPU	'ARIES 161KV'	595	-0.14166	SWPA	'BULL SHOALS 161KV'	278.7	-0.00555	-0.13611	30
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00874	-0.13292	30
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'CITY OF WINFIELD 69KV'	27.962	-0.0083	-0.13336	30
MIPU	'ARIES 161KV'	595	-0.14166	SWPA	'DENISON 138KV'	59.40001	-0.00573	-0.13593	30
MIPU	'ARIES 161KV'	595	-0.14166	SWPA	'EUFULA 138KV'	51	-0.00592	-0.13574	30
MIPU	'ARIES 161KV'	595	-0.14166	SWPA	'EUFULA 161KV'	69.6	-0.00592	-0.13574	30
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.00874	-0.13292	30
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'GILL ENERGY CENTER 138KV'	171	-0.00857	-0.13309	30
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'GILL ENERGY CENTER 69KV'	75	-0.00864	-0.13302	30
MIPU	'ARIES 161KV'	595	-0.14166	SWPA	'KEYSTONE DAM 161KV'	150.2	-0.00735	-0.13431	30
MIPU	'ARIES 161KV'	595	-0.14166	SWPA	'ROBERT S. KERR 161KV'	314.2	-0.00524	-0.13642	30
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'WACO 138KV'	17.96	-0.00859	-0.13307	30
MIPU	'ARIES 161KV'	595	-0.14166	SWPA	'WEBBERS FALLS 161KV'	39	-0.00614	-0.13552	30
SWPA	'BROKEN BOW 138KV'	16.6	-0.00466	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13612	30
KACP	'BULL CREEK 161KV'	65	-0.0041	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13556	30
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.00186	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13332	30
KACP	'GARDNER 161KV'	11	-0.00493	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13639	30
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	MIPU	'SOUTH HARPER 161KV'	252.4078	-0.04852	-0.13634	30
SWPA	'GREERS FERRY 161KV'	16.6	-0.00286	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13432	30
SWPA	'INDEPENDENCE 161KV'	13	-0.00255	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13401	30
SWPA	'KENNETT 69KV'	21.8	-0.001	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13246	30
WERE	'LAWRENCE ENERGY CENTER 230KV'	43.27051	-0.00267	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13413	30
KACP	'MARSHALL 161KV'	54.1	-0.03658	INDN	'MOCT 69KV'	30.8	0.0981	-0.13468	30
SWPA	'OZARK 161KV'	64.90001	-0.00463	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13609	30
SWPA	'PARAGOULD 69KV'	12	-0.00135	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13281	30
SWPA	'ROBERT S. KERR 161KV'	74.5	-0.00524	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.1367	30
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.00147	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13293	30
SWPA	'TRUMAN 161KV'	78.00002	-0.02176	INDN	'SUB H 69KV'	29.07014	0.11176	-0.13352	30
MIPU	'ARIES 161KV'	595	-0.14166	SWPA	'CARTHAGE 69KV'	30	-0.01201	-0.12965	31
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'CHANUTE 69KV'	56.723	-0.01063	-0.13103	31
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'CITY OF BURLINGTON 69KV'	34.753	-0.01149	-0.13017	31
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'CITY OF ERIE 69KV'	23.27	-0.01063	-0.13103	31
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'CITY OF IOLA 69KV'	24.267	-0.01137	-0.13029	31
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	-0.01149	-0.13017	31
WERE	'BPU - CITY OF MCPHERSON 115KV'	21.02441	-0.00072	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13218	31
WERE	'HUTCHINSON ENERGY CENTER 115KV'	141	-0.00062	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13208	31
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	-0.00062	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13208	31
WERE	'JEFFREY ENERGY CENTER 230KV'	24	-0.0003	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13176	31
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.0005	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13096	31
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	KACP	'IATAN 345KV'	396	0.01567	-0.12905	31
MIPU	'ARIES 161KV'	595	-0.14166	KACP	'LACYGNE UNIT 345KV'	958	-0.01404	-0.12762	32
WERE	'HOLTON 115KV'	19.8	0.00428	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.12718	32
MIPU	'LAKE ROAD 161KV'	91	0.03559	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.12807	32
KACP	'MONROSE 161KV'	27.68829	-0.02851	INDN	'MOCT 69KV'	30.8	0.0981	-0.12661	32
KACP	'NORTHEAST 13KV'	70.17432	0.03744	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.12622	32
KACP	'NORTHEAST 161KV'	96	0.03744	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.12622	32
WERE	'SOUTH SENECA 115KV'	16.7	0.00648	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.12498	32
MIPU	'ARIES 161KV'	595	-0.14166	KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	-0.0208	-0.12086	33
WERE	'CHANUTE 69KV'	31.077	-0.01063	INDN	'SUB H 69KV'	29.07014	0.11176	-0.12239	33
WERE	'CITY OF BURLINGTON 69KV'	21.247	-0.01149	INDN	'SUB H 69KV'	29.07014	0.11176	-0.12325	33
WERE	'CITY OF IOLA 69KV'	13.361	-0.01137	INDN	'SUB H 69KV'	29.07014	0.11176	-0.12313	33
MIPU	'ARIES 161KV'	595	-0.14166	SWPA	'TRUMAN 161KV'	102	-0.02176	-0.1199	34
SWPA	'BEAVER 161KV'	27.49995	-0.00836	INDN	'SUB H 69KV'	29.07014	0.11176	-0.12012	34
SWPA	'BULL SHOALS 161KV'	110.9	-0.00555	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11731	34
WERE	'CITY OF WINFIELD 69KV'	12.038	-0.0083	INDN	'SUB H 69KV'	29.07014	0.11176	-0.12006	34
WERE	'EMPORIA 345KV'	828	-0.00746	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11922	34
SWPA	'EUFULA 161KV'	12.4	-0.00592	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11768	34
WERE	'GETTY 69KV'	35	-0.00859	INDN	'SUB H 69KV'	29.07014	0.11176	-0.12035	34
WERE	'GILL ENERGY CENTER 138KV'	49	-0.00857	INDN	'SUB H 69KV'	29.07014	0.11176	-0.12033	34
SWPA	'KEYSTONE DAM 161KV'	50	-0.00735	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11911	34
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	SWPA	'CLARENCE CANNON DAM 69KV'	39.2	0.00407	-0.11745	34
SWPA	'TRUMAN 161KV'	78.00002	-0.02176	INDN	'MOCT 69KV'	30.8	0.0981	-0.11986	34
SWPA	'WEBBERS FALLS 161KV'	30	-0.00614	INDN	'SUB H 69KV'	29.07014	0.11176	-0.1179	34
SWPA	'BROKEN BOW 138KV'	16.6	-0.00466	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11642	35
KACP	'BULL CREEK 161KV'	65	-0.0041	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11586	35
SWPA	'GREERS FERRY 161KV'	16.6	-0.00286	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11462	35
SWPA	'INDEPENDENCE 161KV'	13	-0.00255	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11431	35
WERE	'LAWRENCE ENERGY CENTER 230KV'	43.27051	-0.00267	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11443	35
SWPA	'OZARK 161KV'	64.90001	-0.00463	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11639	35
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.0005	-0.11388	35
SWPA	'ROBERT S. KERR 161KV'	74.5	-0.00524	INDN	'SUB H 69KV'	29.07014	0.11176	-0.117	35
MIPU	'ARIES 161KV'	595	-0.14166	KACP	'MONROSE 161KV'	353.3117	-0.02851	-0.11315	36
WERE	'BPU - CITY OF MCPHERSON 115KV'	21.02441	-0.00072	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11248	36
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.00186	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11362	36
WERE	'HUTCHINSON ENERGY CENTER 115KV'	141	-0.00062	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11238	36
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	-0.00062	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11238	36
WERE	'JEFFREY ENERGY CENTER 230KV'	24	-0.0003	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11206	36
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.0005	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11126	36
SWPA	'KENNETT 69KV'	21.8	-0.001	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11276	36
SWPA	'PARAGOULD 69KV'	12	-0.00135	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11311	36
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00155	-0.11183	36
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'BPU - CITY OF MCPHERSON 115KV'	152.9756	-0.00072	-0.11266	36

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

MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	-0.00062	-0.11276	36
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	-0.00062	-0.11276	36
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.0003	-0.11308	36
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	SWPA	'JONESBORO 161KV'	63	-0.00161	-0.11177	36
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'LAWRENCE ENERGY CENTER 230KV'	225.7295	-0.00267	-0.11071	36
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	SWPA	'SIKESTON 161KV'	235	-0.00039	-0.11299	36
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00161	-0.11177	36
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.00147	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11323	36
MIPU	'TWA 161KV'	32.1	0.05031	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.11335	36
WERE	'CHANUTE 69KV'	31.077	-0.01063	INDN	'MOCT 69KV'	30.8	0.0981	-0.10873	37
WERE	'CITY OF BURLINGTON 69KV'	21.247	-0.01149	INDN	'MOCT 69KV'	30.8	0.0981	-0.10959	37
WERE	'CITY OF IOLA 69KV'	13.361	-0.01137	INDN	'MOCT 69KV'	30.8	0.0981	-0.10947	37
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	SWPA	'BROKEN BOW 138KV'	93.4	-0.00466	-0.10872	37
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	KACP	'BULL CREEK 161KV'	308	-0.0041	-0.10928	37
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	SWPA	'BULL SHOALS 161KV'	278.7	-0.00555	-0.10783	37
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	SWPA	'GREERS FERRY 161KV'	93.4	-0.00286	-0.11052	37
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	SWPA	'OZARK 161KV'	130.6	-0.00463	-0.10875	37
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	SWPA	'ROBERT S. KERR 161KV'	314.2	-0.00524	-0.10814	37
SWPA	'BEAVER 161KV'	27.49995	-0.00836	INDN	'MOCT 69KV'	30.8	0.0981	-0.10646	38
WERE	'EMPORIA 345KV'	828	-0.00746	INDN	'MOCT 69KV'	30.8	0.0981	-0.10556	38
WERE	'GETTY 69KV'	35	-0.00859	INDN	'MOCT 69KV'	30.8	0.0981	-0.10669	38
WERE	'GILL ENERGY CENTER 138KV'	49	-0.00857	INDN	'MOCT 69KV'	30.8	0.0981	-0.10667	38
WERE	'HOLTON 115KV'	19.8	0.00428	INDN	'SUB H 69KV'	29.07014	0.11176	-0.10748	38
SWPA	'KEYSTONE DAM 161KV'	50	-0.00735	INDN	'MOCT 69KV'	30.8	0.0981	-0.10545	38
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	SWPA	'BEAVER 161KV'	138.1001	-0.00836	-0.10502	38
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'CITY OF WINFIELD 69KV'	27.962	-0.0083	-0.10508	38
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	SWPA	'DENISON 138KV'	59.40001	-0.00573	-0.10765	38
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	SWPA	'EUFULA 138KV'	51	-0.00592	-0.10746	38
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	SWPA	'EUFULA 161KV'	69.6	-0.00592	-0.10746	38
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	SWPA	'KEYSTONE DAM 161KV'	150.2	-0.00735	-0.10603	38
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	SWPA	'WEBBERS FALLS 161KV'	39	-0.00614	-0.10724	38
WERE	'SOUTH SENECA 115KV'	16.7	0.00648	INDN	'SUB H 69KV'	29.07014	0.11176	-0.10528	38
SWPA	'BROKEN BOW 138KV'	16.6	-0.00466	INDN	'MOCT 69KV'	30.8	0.0981	-0.10276	39
SWPA	'BULL SHOALS 161KV'	110.9	-0.00555	INDN	'MOCT 69KV'	30.8	0.0981	-0.10365	39
SWPA	'OZARK 161KV'	64.90001	-0.00463	INDN	'MOCT 69KV'	30.8	0.0981	-0.10273	39
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'CHANUTE 69KV'	56.723	-0.01063	-0.10275	39
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00874	-0.10464	39
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'CITY OF ERIE 69KV'	23.27	-0.01063	-0.10275	39
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.00874	-0.10464	39
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'GILL ENERGY CENTER 138KV'	171	-0.00857	-0.10481	39
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'GILL ENERGY CENTER 69KV'	75	-0.00864	-0.10474	39
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'WACO 138KV'	17.96	-0.00859	-0.10479	39
SWPA	'ROBERT S. KERR 161KV'	74.5	-0.00524	INDN	'MOCT 69KV'	30.8	0.0981	-0.10334	39
SWPA	'WEBBERS FALLS 161KV'	30	-0.00614	INDN	'MOCT 69KV'	30.8	0.0981	-0.10424	39
KACP	'BULL CREEK 161KV'	65	-0.0041	INDN	'MOCT 69KV'	30.8	0.0981	-0.1022	40
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.00186	INDN	'MOCT 69KV'	30.8	0.0981	-0.09996	40
SWPA	'GREERS FERRY 161KV'	16.6	-0.00286	INDN	'MOCT 69KV'	30.8	0.0981	-0.10096	40
WERE	'LAWRENCE ENERGY CENTER 230KV'	43.27051	-0.00267	INDN	'MOCT 69KV'	30.8	0.0981	-0.10077	40
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	SWPA	'CARTHAGE 69KV'	30	-0.01201	-0.10137	40
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'CITY OF BURLINGTON 69KV'	34.753	-0.01149	-0.10189	40
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'CITY OF IOLA 69KV'	24.267	-0.01137	-0.10201	40
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	-0.01149	-0.10189	40
WERE	'BPU - CITY OF MCPHERSON 115KV'	21.02441	-0.00072	INDN	'MOCT 69KV'	30.8	0.0981	-0.09882	41
WERE	'HUTCHINSON ENERGY CENTER 115KV'	141	-0.00062	INDN	'MOCT 69KV'	30.8	0.0981	-0.09872	41
WERE	'JEFFREY ENERGY CENTER 230KV'	24	-0.0003	INDN	'MOCT 69KV'	30.8	0.0981	-0.0984	41
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.0005	INDN	'MOCT 69KV'	30.8	0.0981	-0.0976	41
SWPA	'KENNETT 69KV'	21.8	-0.001	INDN	'MOCT 69KV'	30.8	0.0981	-0.0991	41
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	KACP	'LACYGNE UNIT 345KV'	958	-0.01404	-0.09934	41
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.00147	INDN	'MOCT 69KV'	30.8	0.0981	-0.09957	41
MIPU	'LAKE ROAD 161KV'	91	0.03559	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.09587	42
MIPU	'ARIES 161KV'	595	-0.14166	MIPU	'SOUTH HARPER 161KV'	252.4078	-0.04852	-0.09314	43
WERE	'HOLTON 115KV'	19.8	0.00428	INDN	'MOCT 69KV'	30.8	0.0981	-0.09382	43
KACP	'NORTHEAST 13KV'	70.17432	0.03744	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.09402	43
KACP	'NORTHEAST 161KV'	96	0.03744	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.09402	43
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	-0.0208	-0.09258	44
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	SWPA	'TRUMAN 161KV'	102	-0.02176	-0.09162	44
WERE	'SOUTH SENECA 115KV'	16.7	0.00648	INDN	'MOCT 69KV'	30.8	0.0981	-0.09162	44
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	KACP	'HAWTHORN 161KV'	769	0.04069	-0.08921	45
MIPU	'NEVADA 69KV'	20.3	-0.04504	KACP	'HAWTHORN 161KV'	769	0.04069	-0.08573	47
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.08596	47
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	KACP	'NORTHEAST 161KV'	73	0.03744	-0.08596	47
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	KACP	'MONTROSE 161KV'	353.3117	-0.02851	-0.08487	48
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	MIPU	'LAKE ROAD 161KV'	35	0.03559	-0.08411	48
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.08411	48
MIPU	'NEVADA 69KV'	20.3	-0.04504	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.08248	49
MIPU	'NEVADA 69KV'	20.3	-0.04504	KACP	'NORTHEAST 161KV'	73	0.03744	-0.08248	49
MIPU	'NEVADA 69KV'	20.3	-0.04504	MIPU	'LAKE ROAD 161KV'	35	0.03559	-0.08063	50
MIPU	'NEVADA 69KV'	20.3	-0.04504	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.08063	50
MIPU	'TWA 161KV'	32.1	0.05031	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.08115	50
INDN	'SUB I 69KV'	38	0.11208	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.07923	51
KACP	'MARSHALL 161KV'	54.1	-0.03658	KACP	'HAWTHORN 161KV'	769	0.04069	-0.07727	52
MIPU	'LAKE ROAD 161KV'	91	0.03559	INDN	'SUB H 69KV'	29.07014	0.11176	-0.07617	53
KACP	'NORTHEAST 13KV'	70.17432	0.03744	INDN	'SUB H 69KV'	29.07014	0.11176	-0.07432	54
KACP	'NORTHEAST 161KV'	96	0.03744	INDN	'SUB H 69KV'	29.07014	0.11176	-0.07432	54
KACP	'MARSHALL 161KV'	54.1	-0.03658	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.07402	55
KACP	'MARSHALL 161KV'	54.1	-0.03658	KACP	'NORTHEAST 161KV'	73	0.03744	-0.07402	55
KACP	'MARSHALL 161KV'	54.1	-0.03658	MIPU	'LAKE ROAD 161KV'	35	0.03559	-0.07217	56
KACP	'MARSHALL 161KV'	54.1	-0.03658	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.07217	56
INDN	'SUBSTATION J 69KV'	30	0.11885	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.07246	56
KACP	'MONROSE 161KV'	27.68829	-0.02851	KACP	'HAWTHORN 161KV'	769	0.04069	-0.0692	58
KACP	'MONROSE 161KV'	27.68829	-0.02851	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.06595	61
KACP	'MONROSE 161KV'	27.68829	-0.02851	KACP	'NORTHEAST 161KV'	73	0.03744	-0.06595	61
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	MIPU	'SOUTH HARPER 161KV'	252.4078	-0.04852	-0.06486	62
KACP	'MONROSE 161KV'	27.68829	-0.02851	MIPU	'LAKE ROAD 161KV'	35	0.03559	-0.0641	63
KACP	'MONROSE 161KV'	27.68829	-0.02851	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.0641	63
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	KACP	'IATAN 345KV'	396	0.01567	-0.06419	63
MIPU	'LAKE ROAD 161KV'	91	0.03559	INDN	'MOCT 69KV'	30.8	0.0981	-0.06251	65
SWPA	'TRUMAN 161KV'	78.00002	-0.02176	KACP	'HAWTHORN 161KV'	769	0.04069	-0.06245	65
MIPU	'TWA 161KV'	32.1	0.05031	INDN	'SUB H 69KV'	29.07014	0.11176	-0.06145	66
KACP	'NORTHEAST 13KV'	70.17432	0.03744	INDN	'MOCT 69KV'	30.8	0.0981	-0.06066	67
KACP	'NORTHEAST 161KV'	96	0.03744	INDN	'MOCT 69KV'	30.8	0.0981	-0.06066	67
SWPA	'TRUMAN 161KV'	78.00002	-0.02176	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.0592	68
SWPA	'TRUMAN 161KV'	78.00002	-0.02176	KACP	'NORTHEAST 161KV'	73	0.03744	-0.0592	68

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

SWPA	'TRUMAN 161KV'	78.00002	-0.02176	MIPU	'LAKE ROAD 161KV'	35	0.03559	-0.05735	70
SWPA	'TRUMAN 161KV'	78.00002	-0.02176	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.05735	70
KACP	'MARSHALL 161KV'	54.1	-0.03658	KACP	'IATAN 345KV'	396	0.01567	-0.05225	77
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	SWPA	'CLARENCE CANNON DAM 69KV'	39.2	0.00407	-0.05259	77
INDN	'SUB I 69KV'	38	0.11208	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.05158	78
WERE	'CHANUTE 69KV'	31.077	-0.01063	KACP	'HAWTHORN 161KV'	769	0.04069	-0.05132	79
SWPA	'BEAVER 161KV'	27.49995	-0.00836	KACP	'HAWTHORN 161KV'	769	0.04069	-0.04905	82
WERE	'GETTY 69KV'	35	-0.00859	KACP	'HAWTHORN 161KV'	769	0.04069	-0.04928	82
WERE	'GILL ENERGY CENTER 138KV'	49	-0.00857	KACP	'HAWTHORN 161KV'	769	0.04069	-0.04926	82
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.0005	-0.04902	82
WERE	'CHANUTE 69KV'	31.077	-0.01063	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.04807	84
WERE	'CHANUTE 69KV'	31.077	-0.01063	KACP	'NORTHEAST 161KV'	73	0.03744	-0.04807	84
WERE	'EMPORIA 345KV'	828	-0.00746	KACP	'HAWTHORN 161KV'	769	0.04069	-0.04815	84
SWPA	'KEYSTONE DAM 161KV'	50	-0.00735	KACP	'HAWTHORN 161KV'	769	0.04069	-0.04804	84
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	-0.00062	-0.0479	84
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	-0.00062	-0.0479	84
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.0003	-0.04822	84
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	SWPA	'SIKESTON 161KV'	235	-0.00039	-0.04813	84
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	WERE	'BPU - CITY OF MCPHERSON 115KV'	152.9756	-0.00072	-0.0478	85
MIPU	'TWA 161KV'	32.1	0.05031	INDN	'MOCT 69KV'	30.8	0.0981	-0.04779	85
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00155	-0.04697	86
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	SWPA	'JONESBORO 161KV'	63	-0.00161	-0.04691	86
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00161	-0.04691	86
SWPA	'WEBBERS FALLS 161KV'	30	-0.00614	KACP	'HAWTHORN 161KV'	769	0.04069	-0.04683	86
SWPA	'BULL SHOALS 161KV'	110.9	-0.00555	KACP	'HAWTHORN 161KV'	769	0.04069	-0.04624	87
WERE	'CHANUTE 69KV'	31.077	-0.01063	MIPU	'LAKE ROAD 161KV'	35	0.03559	-0.04622	87
WERE	'CHANUTE 69KV'	31.077	-0.01063	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.04622	87
WERE	'GETTY 69KV'	35	-0.00859	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.04603	88
WERE	'GETTY 69KV'	35	-0.00859	KACP	'NORTHEAST 161KV'	73	0.03744	-0.04603	88
WERE	'GILL ENERGY CENTER 138KV'	49	-0.00857	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.04601	88
WERE	'GILL ENERGY CENTER 138KV'	49	-0.00857	KACP	'NORTHEAST 161KV'	73	0.03744	-0.04601	88
SWPA	'ROBERT S. KERR 161KV'	74.5	-0.00524	KACP	'HAWTHORN 161KV'	769	0.04069	-0.04593	88
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	SWPA	'GREENS FERRY 161KV'	93.4	-0.00286	-0.04566	88
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	WERE	'LAWRENCE ENERGY CENTER 230KV'	225.7295	-0.00287	-0.04585	88
SWPA	'OZARK 161KV'	64.90001	-0.00463	KACP	'HAWTHORN 161KV'	769	0.04069	-0.04532	89
KACP	'BULL CREEK 161KV'	65	-0.0041	KACP	'HAWTHORN 161KV'	769	0.04069	-0.04479	90
WERE	'EMPORIA 345KV'	828	-0.00746	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.0449	90
WERE	'EMPORIA 345KV'	828	-0.00746	KACP	'NORTHEAST 161KV'	73	0.03744	-0.0449	90
SWPA	'KEYSTONE DAM 161KV'	50	-0.00735	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.04479	90
SWPA	'KEYSTONE DAM 161KV'	50	-0.00735	KACP	'NORTHEAST 161KV'	73	0.03744	-0.04479	90
INDN	'SUBSTATION J 69KV'	30	0.11885	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.04481	90
WERE	'GETTY 69KV'	35	-0.00859	MIPU	'LAKE ROAD 161KV'	35	0.03559	-0.04418	91
WERE	'GETTY 69KV'	35	-0.00859	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.04418	91
WERE	'GILL ENERGY CENTER 138KV'	49	-0.00857	MIPU	'LAKE ROAD 161KV'	35	0.03559	-0.04416	91
WERE	'GILL ENERGY CENTER 138KV'	49	-0.00857	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.04416	91
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	KACP	'BULL CREEK 161KV'	308	-0.0041	-0.04442	91
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	SWPA	'BROKEN BOW 138KV'	93.4	-0.00466	-0.04386	92
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	SWPA	'OZARK 161KV'	130.6	-0.00463	-0.04389	92
WERE	'LAWRENCE ENERGY CENTER 230KV'	43.27051	-0.00267	KACP	'HAWTHORN 161KV'	769	0.04069	-0.04336	93
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	SWPA	'ROBERT S. KERR 161KV'	314.2	-0.00524	-0.04328	93
SWPA	'BULL SHOALS 161KV'	110.9	-0.00555	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.04299	94
SWPA	'BULL SHOALS 161KV'	110.9	-0.00555	KACP	'NORTHEAST 161KV'	73	0.03744	-0.04299	94
WERE	'EMPORIA 345KV'	828	-0.00746	MIPU	'LAKE ROAD 161KV'	35	0.03559	-0.04305	94
WERE	'EMPORIA 345KV'	828	-0.00746	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.04305	94
SWPA	'KEYSTONE DAM 161KV'	50	-0.00735	MIPU	'LAKE ROAD 161KV'	35	0.03559	-0.04294	94
SWPA	'KEYSTONE DAM 161KV'	50	-0.00735	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.04294	94
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	SWPA	'BULL SHOALS 161KV'	278.7	-0.00555	-0.04297	94
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	SWPA	'DENISON 138KV'	59.40001	-0.00573	-0.04279	94
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.00186	KACP	'HAWTHORN 161KV'	769	0.04069	-0.04255	95
SWPA	'ROBERT S. KERR 161KV'	74.5	-0.00524	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.04268	95
SWPA	'ROBERT S. KERR 161KV'	74.5	-0.00524	KACP	'NORTHEAST 161KV'	73	0.03744	-0.04268	95
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	SWPA	'EUFULA 138KV'	51	-0.00592	-0.0426	95
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	SWPA	'EUFULA 161KV'	69.6	-0.00592	-0.0426	95
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	SWPA	'WEBBERS FALLS 161KV'	39	-0.00614	-0.04238	95
SWPA	'OZARK 161KV'	64.90001	-0.00463	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.04207	96
SWPA	'OZARK 161KV'	64.90001	-0.00463	KACP	'NORTHEAST 161KV'	73	0.03744	-0.04207	96
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.00147	KACP	'HAWTHORN 161KV'	769	0.04069	-0.04216	96
KACP	'BULL CREEK 161KV'	65	-0.0041	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.04154	97
KACP	'BULL CREEK 161KV'	65	-0.0041	KACP	'NORTHEAST 161KV'	73	0.03744	-0.04154	97
SWPA	'BULL SHOALS 161KV'	110.9	-0.00555	MIPU	'LAKE ROAD 161KV'	35	0.03559	-0.04114	98
SWPA	'BULL SHOALS 161KV'	110.9	-0.00555	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.04114	98
WERE	'HUTCHINSON ENERGY CENTER 115KV'	141	-0.00062	KACP	'HAWTHORN 161KV'	769	0.04069	-0.04131	98
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	SWPA	'KEYSTONE DAM 161KV'	150.2	-0.00735	-0.04117	98
KACP	'MARSHALL 161KV'	54.1	-0.03658	SWPA	'CLARENCE CANNON DAM 69KV'	39.2	0.00407	-0.04065	99
SWPA	'ROBERT S. KERR 161KV'	74.5	-0.00524	MIPU	'LAKE ROAD 161KV'	35	0.03559	-0.04083	99
SWPA	'ROBERT S. KERR 161KV'	74.5	-0.00524	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.04083	99
SWPA	'OZARK 161KV'	64.90001	-0.00463	MIPU	'LAKE ROAD 161KV'	35	0.03559	-0.04022	100
SWPA	'OZARK 161KV'	64.90001	-0.00463	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.04022	100
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.0005	KACP	'HAWTHORN 161KV'	769	0.04069	-0.04019	101
WERE	'LAWRENCE ENERGY CENTER 230KV'	43.27051	-0.00267	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.04011	101
WERE	'LAWRENCE ENERGY CENTER 230KV'	43.27051	-0.00267	KACP	'NORTHEAST 161KV'	73	0.03744	-0.04011	101
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	SWPA	'BEAVER 161KV'	138.1001	-0.00836	-0.04016	101
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	WERE	'GILL ENERGY CENTER 138KV'	171	-0.00857	-0.03995	101
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	WERE	'GILL ENERGY CENTER 69KV'	75	-0.00864	-0.03988	101
KACP	'BULL CREEK 161KV'	65	-0.0041	MIPU	'LAKE ROAD 161KV'	35	0.03559	-0.03969	102
KACP	'BULL CREEK 161KV'	65	-0.0041	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.03969	102
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.00874	-0.03978	102
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.00186	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.0393	103
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.00186	KACP	'NORTHEAST 161KV'	73	0.03744	-0.0393	103
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.00147	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.03891	104
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.00147	KACP	'NORTHEAST 161KV'	73	0.03744	-0.03891	104
WERE	'HUTCHINSON ENERGY CENTER 115KV'	141	-0.00062	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.03806	106
WERE	'HUTCHINSON ENERGY CENTER 115KV'	141	-0.00062	KACP	'NORTHEAST 161KV'	73	0.03744	-0.03806	106
WERE	'LAWRENCE ENERGY CENTER 230KV'	43.27051	-0.00267	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.03826	106
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	WERE	'CHANUTE 69KV'	56.723	-0.01063	-0.03789	107
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.00186	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.03745	108
SWPA	'TRUMAN 161KV'	78.00002	-0.02176	KACP	'IATAN 345KV'	396	0.01567	-0.03743	108
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.0005	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.03694	109
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.0005	KACP	'NORTHEAST 161KV'	73	0.03744	-0.03694	109
KACP	'MARSHALL 161KV'	54.1	-0.03658	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.0005	-0.03708	109
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.00147	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.03706	109
KACP	'MARSHALL 161KV'	54.1	-0.03658	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.0003	-0.03628	111
WERE	'HUTCHINSON ENERGY CENTER 115KV'	141	-0.00062	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.03621	112

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

KACP	'MARSHALL 161KV'	54.1	-0.03658	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	-0.00062	-0.03596	112
KACP	'MARSHALL 161KV'	54.1	-0.03658	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	-0.00062	-0.03596	112
KACP	'MARSHALL 161KV'	54.1	-0.03658	SWPA	'SKESTON 161KV'	235	-0.00039	-0.03619	112
KACP	'MARSHALL 161KV'	54.1	-0.03658	WERE	'BPU - CITY OF MCPHERSON 115KV'	152.9756	-0.00072	-0.03586	113
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.0005	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.03509	115
KACP	'MARSHALL 161KV'	54.1	-0.03658	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00155	-0.03503	115
KACP	'MARSHALL 161KV'	54.1	-0.03658	SWPA	'JONESBORO 161KV'	63	-0.00161	-0.03497	116
KACP	'MARSHALL 161KV'	54.1	-0.03658	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00161	-0.03497	116
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	KACP	'LACYGNE UNIT 345KV'	958	-0.01404	-0.03448	117
KACP	'MARSHALL 161KV'	54.1	-0.03658	WERE	'LAWRENCE ENERGY CENTER 230KV'	225.7295	-0.00267	-0.03391	119
KACP	'MARSHALL 161KV'	54.1	-0.03658	SWPA	'GREERS FERRY 161KV'	93.4	-0.00286	-0.03372	120
KACP	'MARSHALL 161KV'	54.1	-0.03658	KACP	'BULL CREEK 161KV'	308	-0.0041	-0.03248	124
KACP	'MARSHALL 161KV'	54.1	-0.03658	SWPA	'OZARK 161KV'	130.6	-0.00463	-0.03195	126
KACP	'MARSHALL 161KV'	54.1	-0.03658	SWPA	'BROKEN BOW 138KV'	93.4	-0.00466	-0.03192	127
KACP	'MARSHALL 161KV'	54.1	-0.03658	SWPA	'ROBERT S. KERR 161KV'	314.2	-0.00524	-0.03134	129
KACP	'MARSHALL 161KV'	54.1	-0.03658	SWPA	'BULL SHOALS 161KV'	278.7	-0.00555	-0.03103	130
KACP	'MARSHALL 161KV'	54.1	-0.03658	SWPA	'DENISON 138KV'	59.40001	-0.00573	-0.03085	131
KACP	'MARSHALL 161KV'	54.1	-0.03658	SWPA	'EUFAULA 138KV'	51	-0.00592	-0.03066	132
KACP	'MARSHALL 161KV'	54.1	-0.03658	SWPA	'EUFAULA 161KV'	69.6	-0.00592	-0.03066	132

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

Upgrade: BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1
 Limiting Facility: BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1
 Direction: To->From
 Line Outage: ORRICK - RICHMOND 161KV CKT 1
 Flowgate: 59205592351592445923614107SP
 Date Redispatch Needed: 6/1/07 - 10/1/07
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount	Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
1162650	2.0	4.0	MIPU	'GREENWOOD 161KV'	255.8	-0.18486	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.37617	11
1162651	2.0	4.0	MIPU	'ARIES 161KV'	595	-0.14166	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.33297	12
			MIPU	'GREENWOOD 161KV'	255.8	-0.18486	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.34852	12
			MIPU	'ARIES 161KV'	595	-0.14166	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.30532	13
			MIPU	'GREENWOOD 161KV'	255.8	-0.18486	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.31632	13
			MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.30469	13
			MIPU	'GREENWOOD 161KV'	255.8	-0.18486	INDN	'MOCT 69KV'	30.8	0.0981	-0.28296	14
			MIPU	'GREENWOOD 161KV'	255.8	-0.18486	INDN	'SUB H 69KV'	29.07014	0.11176	-0.29662	14
			MIPU	'ARIES 161KV'	595	-0.14166	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.27312	15
			MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.27704	15
			MIPU	'ARIES 161KV'	595	-0.14166	INDN	'SUB H 69KV'	29.07014	0.11176	-0.25342	16
			MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.24484	16
			MIPU	'ARIES 161KV'	595	-0.14166	INDN	'MOCT 69KV'	30.8	0.0981	-0.23976	17
			MIPU	'NEVADA 69KV'	20.3	-0.04504	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.23635	17
			MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.23983	17
			MIPU	'GREENWOOD 161KV'	255.8	-0.18486	KACP	'HAWTHORN 161KV'	769	0.04069	-0.22555	18
			MIPU	'GREENWOOD 161KV'	255.8	-0.18486	MIPU	'LAKE ROAD 161KV'	35	0.03559	-0.22045	18
			MIPU	'GREENWOOD 161KV'	255.8	-0.18486	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.22045	18
			MIPU	'GREENWOOD 161KV'	255.8	-0.18486	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.2223	18
			MIPU	'GREENWOOD 161KV'	255.8	-0.18486	KACP	'NORTHEAST 161KV'	73	0.03744	-0.2223	18
			KACP	'MARSHALL 161KV'	54.1	-0.03658	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.22789	18
			KACP	'MONTROSE 161KV'	27.68829	-0.02851	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.21982	18
			MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	INDN	'SUB H 69KV'	29.07014	0.11176	-0.22514	18
			MIPU	'NEVADA 69KV'	20.3	-0.04504	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.2087	19
			MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	INDN	'MOCT 69KV'	30.8	0.0981	-0.21148	19
			MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.21218	19
			SWPA	'TRUMAN 161KV'	78.00002	-0.02176	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.21307	19
			SWPA	'BEAVER 161KV'	27.49995	-0.00836	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.19967	20
			WERE	'CHANUTE 69KV'	31.077	-0.01063	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.20194	20
			WERE	'CITY OF AUGUSTA 69KV'	10.141	-0.00874	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.20005	20
			WERE	'CITY OF BURLINGTON 69KV'	21.247	-0.01149	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.2028	20
			WERE	'CITY OF FREDONIA 69KV'	9.173	-0.00971	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.20102	20
			WERE	'CITY OF IOLA 69KV'	13.361	-0.01137	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.20268	20
			WERE	'CITY OF MULVANE 69KV'	7.502	-0.00885	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.20016	20
			WERE	'CITY OF WINFIELD 69KV'	12.038	-0.0083	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.19961	20
			WERE	'EMPORIA 345KV'	828	-0.00746	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.19877	20
			SWPA	'EUFAULA 138KV'	9.000004	-0.00592	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.19723	20
			SWPA	'EUFAULA 161KV'	12.4	-0.00592	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.19723	20
			WERE	'EVANS ENERGY CENTER 138KV'	8	-0.00874	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.20005	20
			WERE	'GETTY 69KV'	35	-0.00859	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.1999	20
			WERE	'GILL ENERGY CENTER 138KV'	49	-0.00857	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.19988	20
			WERE	'GILL ENERGY CENTER 69KV'	8	-0.00864	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.19995	20
			MIPU	'GREENWOOD 161KV'	255.8	-0.18486	KACP	'IATAN 345KV'	396	0.01567	-0.20053	20
			SWPA	'KEYSTONE DAM 161KV'	50	-0.00735	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.19866	20
			KACP	'MARSHALL 161KV'	54.1	-0.03658	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.20024	20
			SWPA	'WEBBERS FALLS 161KV'	30	-0.00614	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.19745	21
			WERE	'BPU - CITY OF MCPHERSON 115KV'	21.02441	-0.00072	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.19203	21
			SWPA	'BROKEN BOW 138KV'	16.6	-0.00466	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.19597	21
			KACP	'BULL CREEK 161KV'	65	-0.0041	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.19541	21
			SWPA	'BULL SHOALS 161KV'	110.9	-0.00555	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.19686	21
			WERE	'CITY OF OSAGE CITY 115KV'	8.85	-0.00451	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.19582	21
			WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.00186	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.19317	21
			SWPA	'DENISON 138KV'	10.59999	-0.00573	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.19704	21
			KACP	'GARDNER 161KV'	11	-0.00493	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.19624	21
			MIPU	'GREENWOOD 161KV'	255.8	-0.18486	SWPA	'CLARENCE CANNON DAM 69KV'	39.2	0.00407	-0.18893	21
			SWPA	'GREERS FERRY 161KV'	16.6	-0.00286	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.19417	21
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	141	-0.00062	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.19193	21
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	-0.00062	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.19193	21
			SWPA	'INDEPENDENCE 161KV'	13	-0.00255	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.19386	21
			WERE	'JEFFREY ENERGY CENTER 230KV'	24	-0.0003	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.19161	21
			WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.0005	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.19081	21
			SWPA	'KENNETT 69KV'	21.8	-0.001	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.19231	21
			WERE	'LAWRENCE ENERGY CENTER 230KV'	43.27051	-0.00267	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.19398	21

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

SWPA	'MALDEN 69KV'	10	-0.0008	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.19211	21
KACP	'MONTROSE 161KV'	27.68829	-0.02851	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.19217	21
SWPA	'OZARK 161KV'	64.90001	-0.00463	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.19594	21
SWPA	'PARAGOULD 69KV'	12	-0.00135	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.19266	21
SWPA	'PIGGOTT 69KV'	7.5	-0.00093	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.19224	21
SWPA	'POPLAR BLUFF 69KV'	7	-0.00098	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.19229	21
SWPA	'ROBERT S. KERR 161KV'	74.5	-0.00524	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.19655	21
WERE	'ST JOHN 115KV'	7.5	-0.00011	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.19142	21
MIPU	'TECUMSEH ENERGY CENTER 69KV'	41	-0.00147	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.19278	21
WERE	'ARIES 161KV'	595	-0.14166	KACP	'HAWTHORN 161KV'	769	0.04069	-0.18235	22
SWPA	'CLARENCE CANNON DAM 69KV'	8.799999	0.00407	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.18724	22
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00155	-0.18331	22
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	WERE	'BPU - CITY OF MCPHERSON 115KV'	152.9756	-0.00072	-0.18414	22
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	SWPA	'BROKEN BOW 138KV'	93.4	-0.00466	-0.1802	22
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	KACP	'BULL CREEK 161KV'	308	-0.0041	-0.18076	22
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	SWPA	'GREERS FERRY 161KV'	93.4	-0.00286	-0.182	22
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	-0.00062	-0.18424	22
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	-0.00062	-0.18424	22
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.0003	-0.18456	22
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.0005	-0.18536	22
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	SWPA	'JONESBORO 161KV'	63	-0.00161	-0.18325	22
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	WERE	'LAWRENCE ENERGY CENTER 230KV'	225.7295	-0.00267	-0.18219	22
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	SWPA	'OZARK 161KV'	130.6	-0.00463	-0.18023	22
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	SWPA	'ROBERT S. KERR 161KV'	314.2	-0.00524	-0.17962	22
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	SWPA	'SIKESTON 161KV'	235	-0.00039	-0.18447	22
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00161	-0.18325	22
WERE	'HOLTON 115KV'	19.8	0.00428	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.18703	22
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.17998	22
WERE	'SOUTH SENECA 115KV'	16.7	0.00648	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.18483	22
SWPA	'TRUMAN 161KV'	78.00002	-0.02176	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.18542	22
MIPU	'ARIES 161KV'	595	-0.14166	MIPU	'LAKE ROAD 161KV'	35	0.03559	-0.17725	23
MIPU	'ARIES 161KV'	595	-0.14166	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.17725	23
MIPU	'ARIES 161KV'	595	-0.14166	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.1791	23
MIPU	'ARIES 161KV'	595	-0.14166	KACP	'NORTHEAST 161KV'	73	0.03744	-0.1791	23
SWPA	'BEAVER 161KV'	27.49995	-0.00836	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.17202	23
WERE	'CHANUTE 69KV'	31.077	-0.01063	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.17429	23
WERE	'CITY OF AUGUSTA 69KV'	10.141	-0.00874	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.1724	23
WERE	'CITY OF BURLINGTON 69KV'	21.247	-0.01149	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.17515	23
WERE	'CITY OF FREDONIA 69KV'	9.173	-0.00971	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.17337	23
WERE	'CITY OF IOLA 69KV'	13.361	-0.01137	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.17503	23
WERE	'CITY OF WINFIELD 69KV'	12.038	-0.0083	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.17196	23
WERE	'EVANS ENERGY CENTER 138KV'	8	-0.00874	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.1724	23
WERE	'GETTY 69KV'	35	-0.00859	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.17225	23
WERE	'GILL ENERGY CENTER 138KV'	49	-0.00857	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.17223	23
WERE	'GILL ENERGY CENTER 69KV'	8	-0.00864	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.1723	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	SWPA	'BEAVER 161KV'	138.1001	-0.00836	-0.1765	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	SWPA	'BULL SHOALS 161KV'	278.7	-0.00555	-0.17931	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	SWPA	'CARTHAGE 69KV'	30	-0.01201	-0.17285	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	WERE	'CHANUTE 69KV'	56.723	-0.01063	-0.17423	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00874	-0.17612	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	WERE	'CITY OF BURLINGTON 69KV'	34.753	-0.01149	-0.17337	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	WERE	'CITY OF ERIE 69KV'	23.27	-0.01063	-0.17423	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	WERE	'CITY OF IOLA 69KV'	24.267	-0.01137	-0.17349	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	WERE	'CITY OF MULVANE 69KV'	8.288	-0.00885	-0.17601	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	WERE	'CITY OF WINFIELD 69KV'	27.962	-0.0083	-0.17656	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	-0.01149	-0.17337	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	SWPA	'DENISON 138KV'	59.40001	-0.00573	-0.17913	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	SWPA	'EUFAULA 138KV'	51	-0.00592	-0.17894	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	SWPA	'EUFAULA 161KV'	69.6	-0.00592	-0.17894	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.00874	-0.17612	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	WERE	'GILL ENERGY CENTER 138KV'	171	-0.00857	-0.17629	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	WERE	'GILL ENERGY CENTER 69KV'	75	-0.00864	-0.17622	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	SWPA	'KEYSTONE DAM 161KV'	150.2	-0.00735	-0.17751	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	WERE	'WAGO 138KV'	17.96	-0.00859	-0.17627	23
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	SWPA	'WEBBERS FALLS 161KV'	39	-0.00614	-0.17872	23
MIPU	'NEVADA 69KV'	20.3	-0.04504	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.1765	23
SWPA	'BROKEN BOW 138KV'	16.6	-0.00466	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16832	24
KACP	'BULL CREEK 161KV'	65	-0.0041	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16776	24
SWPA	'BULL SHOALS 161KV'	110.9	-0.00555	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16921	24
WERE	'CITY OF OSAGE CITY 115KV'	8.85	-0.00451	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16817	24
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.00186	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16552	24
SWPA	'DENISON 138KV'	10.59999	-0.00573	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16939	24
WERE	'EMPORIA 345KV'	828	-0.00746	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.17112	24
SWPA	'EUFAULA 138KV'	9.000004	-0.00592	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16958	24
SWPA	'EUFAULA 161KV'	12.4	-0.00592	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16958	24
KACP	'GARDNER 161KV'	11	-0.00493	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16859	24
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	KACP	'LACYGNE UNIT 345KV'	958	-0.01404	-0.17082	24
SWPA	'GREERS FERRY 161KV'	16.6	-0.00286	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16652	24
SWPA	'INDEPENDENCE 161KV'	13	-0.00255	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16621	24
SWPA	'KEYSTONE DAM 161KV'	50	-0.00735	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.17101	24
WERE	'LAWRENCE ENERGY CENTER 230KV'	43.27051	-0.00267	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16633	24
KACP	'MARSHALL 161KV'	54.1	-0.03658	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.16804	24
SWPA	'OZARK 161KV'	64.90001	-0.00463	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16829	24
SWPA	'PARAGOULD 69KV'	12	-0.00135	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16501	24
SWPA	'ROBERT S. KERR 161KV'	74.5	-0.00524	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.1689	24
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.00147	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16513	24
SWPA	'WEBBERS FALLS 161KV'	30	-0.00614	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.1698	24
WERE	'BPU - CITY OF MCPHERSON 115KV'	21.02441	-0.00072	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16438	25
SWPA	'CLARENCE CANNON DAM 69KV'	8.799999	0.00407	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.15959	25
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	-0.0208	-0.16406	25
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	SWPA	'TRUMAN 161KV'	102	-0.02176	-0.1631	25
WERE	'HOLTON 115KV'	19.8	0.00428	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.15938	25
WERE	'HUTCHINSON ENERGY CENTER 115KV'	141	-0.00062	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16428	25
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	-0.00062	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16428	25
WERE	'JEFFREY ENERGY CENTER 230KV'	24	-0.0003	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16396	25
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.0005	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16316	25
SWPA	'KENNETT 69KV'	21.8	-0.001	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16466	25
SWPA	'MALDEN 69KV'	10	-0.0008	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.16446	25
KACP	'MONTROSE 161KV'	27.68829	-0.02851	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.15997	25
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	INDN	'SUB H 69KV'	29.07014	0.11176	-0.16028	25
MIPU	'ARIES 161KV'	595	-0.14166	KACP	'IATAN 345KV'	396	0.01567	-0.15733	26
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	KACP	'MONTROSE 161KV'	353.3117	-0.02851	-0.15635	26
MIPU	'LAKE ROAD 161KV'	91	0.03559	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.15572	26

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

MIPU	'NEVADA 69KV'	20.3	-0.04504	INDN	'SUB H 69KV'	29.07014	0.11176	-0.1568	26
KACP	'NORTHEAST 13KV'	70.17432	0.03744	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.15387	26
KACP	'NORTHEAST 161KV'	96	0.03744	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.15387	26
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	KACP	'HAWTHORN 161KV'	769	0.04069	-0.15407	26
WERE	'SOUTH SENECA 115KV'	16.7	0.00648	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.15718	26
SWPA	'TRUMAN 161KV'	78.00002	-0.02176	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.15322	26
KACP	'MARSHALL 161KV'	54.1	-0.03658	INDN	'SUB H 69KV'	29.07014	0.11176	-0.14834	27
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	MIPU	'LAKE ROAD 161KV'	35	0.03559	-0.14897	27
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.14897	27
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.15082	27
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	KACP	'NORTHEAST 161KV'	73	0.03744	-0.15082	27
MIPU	'ARIES 161KV'	595	-0.14166	SWPA	'CLARENCE CANNON DAM 69KV'	39.2	0.00407	-0.14573	28
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.0005	-0.14216	28
WERE	'CHANUTE 69KV'	31.077	-0.01063	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.14209	28
WERE	'CITY OF BURLINGTON 69KV'	21.247	-0.01149	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.14295	28
WERE	'CITY OF IOLA 69KV'	13.361	-0.01137	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.14283	28
MIPU	'NEVADA 69KV'	20.3	-0.04504	INDN	'MOCT 69KV'	30.8	0.0981	-0.14314	28
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	INDN	'MOCT 69KV'	30.8	0.0981	-0.14662	28
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00155	-0.14011	29
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'BPU - CITY OF MCPHERSON 115KV'	152.9756	-0.00072	-0.14094	29
MIPU	'ARIES 161KV'	595	-0.14166	SWPA	'BROKEN BOW 138KV'	93.4	-0.00466	-0.137	29
MIPU	'ARIES 161KV'	595	-0.14166	KACP	'BULL CREEK 161KV'	308	-0.0041	-0.13756	29
MIPU	'ARIES 161KV'	595	-0.14166	SWPA	'GREERS FERRY 161KV'	93.4	-0.00286	-0.1388	29
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	-0.00062	-0.14104	29
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	-0.00062	-0.14104	29
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.0003	-0.14136	29
MIPU	'ARIES 161KV'	595	-0.14166	SWPA	'JONESBORO 161KV'	63	-0.00161	-0.14005	29
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'LAWRENCE ENERGY CENTER 230KV'	225.7295	-0.00267	-0.13899	29
MIPU	'ARIES 161KV'	595	-0.14166	SWPA	'OZARK 161KV'	130.6	-0.00463	-0.13703	29
MIPU	'ARIES 161KV'	595	-0.14166	SWPA	'SIKEMSEH 161KV'	235	-0.00039	-0.14127	29
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00161	-0.14005	29
SWPA	'BEAVER 161KV'	27.49995	-0.00836	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13982	29
SWPA	'BULL SHOALS 161KV'	110.9	-0.00555	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13701	29
WERE	'CITY OF AUGUSTA 69KV'	10.141	-0.00874	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.1402	29
WERE	'CITY OF WINFIELD 69KV'	12.038	-0.0083	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13976	29
SWPA	'DENISON 138KV'	10.59999	-0.00573	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13719	29
WERE	'EMPORIA 345KV'	828	-0.00746	INDN	'EMPORIA 69KV'	85.08216	0.13146	-0.13892	29
SWPA	'EUFAULA 161KV'	12.4	-0.00592	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13738	29
WERE	'GETTY 69KV'	35	-0.00859	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.14005	29
WERE	'GILL ENERGY CENTER 138KV'	49	-0.00857	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.14003	29
SWPA	'KEYSTONE DAM 161KV'	50	-0.00735	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13881	29
KACP	'MONTROSE 161KV'	27.68829	-0.02851	INDN	'SUB H 69KV'	29.07014	0.11176	-0.14027	29
MIPU	'TWA 161KV'	32.1	0.05031	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.141	29
SWPA	'WEBBERS FALLS 161KV'	30	-0.00614	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.1376	29
MIPU	'ARIES 161KV'	595	-0.14166	SWPA	'BEAVER 161KV'	138.1001	-0.00836	-0.1333	30
MIPU	'ARIES 161KV'	595	-0.14166	SWPA	'BULL SHOALS 161KV'	278.7	-0.00555	-0.13611	30
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00874	-0.13292	30
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'CITY OF WINFIELD 69KV'	27.962	-0.0083	-0.13336	30
MIPU	'ARIES 161KV'	595	-0.14166	SWPA	'DENISON 138KV'	59.40001	-0.00573	-0.13593	30
MIPU	'ARIES 161KV'	595	-0.14166	SWPA	'EUFAULA 138KV'	51	-0.00592	-0.13574	30
MIPU	'ARIES 161KV'	595	-0.14166	SWPA	'EUFAULA 161KV'	69.6	-0.00592	-0.13574	30
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.00874	-0.13292	30
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'GILL ENERGY CENTER 138KV'	171	-0.00857	-0.13309	30
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'GILL ENERGY CENTER 69KV'	75	-0.00864	-0.13302	30
MIPU	'ARIES 161KV'	595	-0.14166	SWPA	'KEYSTONE DAM 161KV'	150.2	-0.00735	-0.13431	30
MIPU	'ARIES 161KV'	595	-0.14166	SWPA	'ROBERT S. KERR 161KV'	314.2	-0.00524	-0.13642	30
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'WACO 138KV'	17.96	-0.00859	-0.13307	30
MIPU	'ARIES 161KV'	595	-0.14166	SWPA	'WEBBERS FALLS 161KV'	39	-0.00614	-0.13552	30
SWPA	'BROKEN BOW 138KV'	16.6	-0.00466	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13612	30
KACP	'BULL CREEK 161KV'	65	-0.0041	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13556	30
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.00186	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13332	30
KACP	'GARDNER 161KV'	11	-0.00493	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13639	30
MIPU	'GREENWOOD 161KV'	255.8	-0.18486	MIPU	'SOUTH HARPER 161KV'	252.4078	-0.04852	-0.13634	30
SWPA	'GREERS FERRY 161KV'	16.6	-0.00286	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13432	30
SWPA	'INDEPENDENCE 161KV'	13	-0.00235	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13401	30
SWPA	'KENNETT 69KV'	21.8	-0.001	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13246	30
WERE	'LAWRENCE ENERGY CENTER 230KV'	43.27051	-0.00267	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13413	30
KACP	'MARSHALL 161KV'	54.1	-0.03658	INDN	'MOCT 69KV'	30.8	0.0981	-0.13468	30
SWPA	'OZARK 161KV'	64.90001	-0.00463	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13609	30
SWPA	'PARAGOULD 69KV'	12	-0.00135	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13281	30
SWPA	'ROBERT S. KERR 161KV'	74.5	-0.00524	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.1367	30
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.00147	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13293	30
SWPA	'TRUMAN 161KV'	78.00002	-0.02176	INDN	'SUB H 69KV'	29.07014	0.11176	-0.13352	30
MIPU	'ARIES 161KV'	595	-0.14166	SWPA	'CARTHAGE 69KV'	30	-0.01201	-0.12965	31
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'CHANUTE 69KV'	56.723	-0.01063	-0.13103	31
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'CITY OF BURLINGTON 69KV'	34.753	-0.01149	-0.13017	31
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'CITY OF ERIE 69KV'	23.27	-0.01063	-0.13103	31
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'CITY OF IOLA 69KV'	24.267	-0.01137	-0.13029	31
MIPU	'ARIES 161KV'	595	-0.14166	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	-0.01149	-0.13017	31
WERE	'BPU - CITY OF MCPHERSON 115KV'	21.02441	-0.00072	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13218	31
WERE	'HUTCHINSON ENERGY CENTER 115KV'	141	-0.00062	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13208	31
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	-0.00062	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13208	31
WERE	'JEFFREY ENERGY CENTER 230KV'	24	-0.0003	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13176	31
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.0005	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.13096	31
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	KACP	'IATAN 345KV'	396	0.01567	-0.12905	31
MIPU	'ARIES 161KV'	595	-0.14166	KACP	'LACYGNE UNIT 345KV'	958	-0.01404	-0.12762	32
WERE	'HOLTON 115KV'	19.8	0.00428	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.12718	32
MIPU	'LAKE ROAD 161KV'	91	0.03559	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.12807	32
KACP	'MONTROSE 161KV'	27.68829	-0.02851	INDN	'MOCT 69KV'	30.8	0.0981	-0.12661	32
KACP	'NORTHEAST 13KV'	70.17432	0.03744	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.12622	32
KACP	'NORTHEAST 161KV'	96	0.03744	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.12622	32
WERE	'SOUTH SENECA 115KV'	16.7	0.00648	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.12498	32
MIPU	'ARIES 161KV'	595	-0.14166	KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	-0.0208	-0.12086	33
WERE	'CHANUTE 69KV'	31.077	-0.01063	INDN	'SUB H 69KV'	29.07014	0.11176	-0.12239	33
WERE	'CITY OF BURLINGTON 69KV'	21.247	-0.01149	INDN	'SUB H 69KV'	29.07014	0.11176	-0.12325	33
WERE	'CITY OF IOLA 69KV'	13.361	-0.01137	INDN	'SUB H 69KV'	29.07014	0.11176	-0.12313	33
MIPU	'ARIES 161KV'	595	-0.14166	SWPA	'TRUMAN 161KV'	102	-0.02176	-0.1199	34
SWPA	'BEAVER 161KV'	27.49995	-0.00836	INDN	'SUB H 69KV'	29.07014	0.11176	-0.12012	34
SWPA	'BULL SHOALS 161KV'	110.9	-0.00555	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11731	34
WERE	'CITY OF WINFIELD 69KV'	12.038	-0.0083	INDN	'SUB H 69KV'	29.07014	0.11176	-0.12006	34
WERE	'EMPORIA 345KV'	828	-0.00746	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11922	34
SWPA	'EUFAULA 161KV'	12.4	-0.00592	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11768	34
WERE	'GETTY 69KV'	35	-0.00859	INDN	'SUB H 69KV'	29.07014	0.11176	-0.12035	34

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

WERE	'GILL ENERGY CENTER 138KV'	49	-0.00857	INDN	'SUB H 69KV'	29.07014	0.11176	-0.12033	34
SWPA	'KEYSTONE DAM 161KV'	50	-0.00735	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11911	34
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	SWPA	'CLARENCE CANNON DAM 69KV'	39.2	0.00407	-0.11745	34
SWPA	'TRUMAN 161KV'	78.00002	-0.02176	INDN	'MOCT 69KV'	30.8	0.0981	-0.11986	34
SWPA	'WEBBERS FALLS 161KV'	30	-0.00614	INDN	'SUB H 69KV'	29.07014	0.11176	-0.1179	34
SWPA	'BROKEN BOW 138KV'	16.6	-0.00466	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11642	35
KACP	'BULL CREEK 161KV'	65	-0.0041	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11586	35
SWPA	'GREERS FERRY 161KV'	16.6	-0.00286	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11462	35
SWPA	'INDEPENDENCE 161KV'	13	-0.00255	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11431	35
WERE	'LAWRENCE ENERGY CENTER 230KV'	43.27051	-0.00267	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11443	35
SWPA	'OZARK 161KV'	64.90001	-0.00463	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11639	35
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.0005	-0.11388	35
SWPA	'ROBERT S. KERR 161KV'	74.5	-0.00524	INDN	'SUB H 69KV'	29.07014	0.11176	-0.117	35
MIPU	'ARIES 161KV'	595	-0.14166	KACP	'MONTROSE 161KV'	353.3117	-0.02851	-0.11315	36
WERE	'BPU - CITY OF MCPHERSON 115KV'	21.02441	-0.00072	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11248	36
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.00186	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11362	36
WERE	'HUTCHINSON ENERGY CENTER 115KV'	141	-0.00062	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11238	36
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	-0.00062	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11238	36
WERE	'JEFFREY ENERGY CENTER 230KV'	24	-0.0003	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11206	36
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.0005	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11126	36
SWPA	'KENNETT 69KV'	21.8	-0.001	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11276	36
SWPA	'PARAGOULD 69KV'	12	-0.00135	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11311	36
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00155	-0.11183	36
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'BPU - CITY OF MCPHERSON 115KV'	152.9756	-0.00072	-0.11266	36
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	-0.00062	-0.11276	36
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	-0.00062	-0.11276	36
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.0003	-0.11308	36
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	SWPA	'JONESBORO 161KV'	63	-0.00161	-0.11177	36
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'LAWRENCE ENERGY CENTER 230KV'	225.7295	-0.00267	-0.11071	36
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	SWPA	'SIKSTONE 161KV'	235	-0.00039	-0.11299	36
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00161	-0.11177	36
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.00147	INDN	'SUB H 69KV'	29.07014	0.11176	-0.11323	36
MIPU	'TWA 161KV'	32.1	0.05031	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.11335	36
WERE	'CHANUTE 69KV'	31.077	-0.01063	INDN	'MOCT 69KV'	30.8	0.0981	-0.10873	37
WERE	'CITY OF BURLINGTON 69KV'	21.247	-0.01149	INDN	'MOCT 69KV'	30.8	0.0981	-0.10959	37
WERE	'CITY OF IOLA 69KV'	13.361	-0.01137	INDN	'MOCT 69KV'	30.8	0.0981	-0.10947	37
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	SWPA	'BROKEN BOW 138KV'	93.4	-0.00466	-0.10872	37
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	KACP	'BULL CREEK 161KV'	308	-0.0041	-0.10928	37
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	SWPA	'BULL SHOALS 161KV'	278.7	-0.00555	-0.10783	37
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	SWPA	'GREERS FERRY 161KV'	93.4	-0.00286	-0.11052	37
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	SWPA	'OZARK 161KV'	130.6	-0.00463	-0.10875	37
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	SWPA	'ROBERT S. KERR 161KV'	314.2	-0.00524	-0.10814	37
SWPA	'BEAVER 161KV'	27.49995	-0.00836	INDN	'MOCT 69KV'	30.8	0.0981	-0.10646	38
WERE	'EMPORIA 345KV'	828	-0.00746	INDN	'MOCT 69KV'	30.8	0.0981	-0.10556	38
WERE	'GETTY 69KV'	35	-0.00859	INDN	'MOCT 69KV'	30.8	0.0981	-0.10669	38
WERE	'GILL ENERGY CENTER 138KV'	49	-0.00857	INDN	'MOCT 69KV'	30.8	0.0981	-0.10667	38
WERE	'HOLTON 115KV'	19.8	0.00428	INDN	'SUB H 69KV'	29.07014	0.11176	-0.10748	38
SWPA	'KEYSTONE DAM 161KV'	50	-0.00735	INDN	'MOCT 69KV'	30.8	0.0981	-0.10545	38
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	SWPA	'BEAVER 161KV'	138.1001	-0.00836	-0.10502	38
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'CITY OF WINFIELD 69KV'	27.962	-0.0083	-0.10508	38
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	SWPA	'DENISON 138KV'	59.40001	-0.00573	-0.10765	38
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	SWPA	'EUFAULA 138KV'	51	-0.00592	-0.10746	38
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	SWPA	'EUFAULA 161KV'	69.6	-0.00592	-0.10746	38
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	SWPA	'KEYSTONE DAM 161KV'	150.2	-0.00735	-0.10603	38
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	SWPA	'WEBBERS FALLS 161KV'	39	-0.00614	-0.10724	38
WERE	'SOUTH SENECA 115KV'	16.7	0.00648	INDN	'SUB H 69KV'	29.07014	0.11176	-0.10528	38
SWPA	'BROKEN BOW 138KV'	16.6	-0.00466	INDN	'MOCT 69KV'	30.8	0.0981	-0.10276	39
SWPA	'BULL SHOALS 161KV'	110.9	-0.00555	INDN	'MOCT 69KV'	30.8	0.0981	-0.10365	39
SWPA	'OZARK 161KV'	64.90001	-0.00463	INDN	'MOCT 69KV'	30.8	0.0981	-0.10273	39
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'CHANUTE 69KV'	56.723	-0.01063	-0.10275	39
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00874	-0.10484	39
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'CITY OF ERIE 69KV'	23.27	-0.01063	-0.10275	39
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.00874	-0.10464	39
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'GILL ENERGY CENTER 138KV'	171	-0.00857	-0.10481	39
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'GILL ENERGY CENTER 69KV'	75	-0.00864	-0.10474	39
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'WAGO 138KV'	17.96	-0.00859	-0.10479	39
SWPA	'ROBERT S. KERR 161KV'	74.5	-0.00524	INDN	'MOCT 69KV'	30.8	0.0981	-0.10334	39
SWPA	'WEBBERS FALLS 161KV'	30	-0.00614	INDN	'MOCT 69KV'	30.8	0.0981	-0.10424	39
KACP	'BULL CREEK 161KV'	65	-0.0041	INDN	'MOCT 69KV'	30.8	0.0981	-0.1022	40
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.00186	INDN	'MOCT 69KV'	30.8	0.0981	-0.09996	40
SWPA	'GREERS FERRY 161KV'	16.6	-0.00286	INDN	'MOCT 69KV'	30.8	0.0981	-0.10096	40
WERE	'LAWRENCE ENERGY CENTER 230KV'	43.27051	-0.00267	INDN	'MOCT 69KV'	30.8	0.0981	-0.10077	40
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	SWPA	'CARTHAGE 69KV'	30	-0.01201	-0.10137	40
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'CITY OF BURLINGTON 69KV'	34.753	-0.01149	-0.10189	40
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'CITY OF IOLA 69KV'	24.267	-0.01137	-0.10201	40
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	-0.01149	-0.10189	40
WERE	'BPU - CITY OF MCPHERSON 115KV'	21.02441	-0.00072	INDN	'MOCT 69KV'	30.8	0.0981	-0.09882	41
WERE	'HUTCHINSON ENERGY CENTER 115KV'	141	-0.00062	INDN	'MOCT 69KV'	30.8	0.0981	-0.09872	41
WERE	'JEFFREY ENERGY CENTER 230KV'	24	-0.0003	INDN	'MOCT 69KV'	30.8	0.0981	-0.0984	41
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.0005	INDN	'MOCT 69KV'	30.8	0.0981	-0.0976	41
SWPA	'KENNETT 69KV'	21.8	-0.001	INDN	'MOCT 69KV'	30.8	0.0981	-0.0991	41
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	KACP	'LACYGNE UNIT 345KV'	958	-0.01404	-0.09934	41
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.00147	INDN	'MOCT 69KV'	30.8	0.0981	-0.09957	41
MIPU	'LAKE ROAD 161KV'	91	0.03559	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.09587	42
MIPU	'ARIES 161KV'	595	-0.14166	MIPU	'SOUTH HARPER 161KV'	252.4078	-0.04852	-0.09314	43
WERE	'HOLTON 115KV'	19.8	0.00428	INDN	'MOCT 69KV'	30.8	0.0981	-0.09382	43
KACP	'NORTHEAST 13KV'	70.17432	0.03744	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.09402	43
KACP	'NORTHEAST 161KV'	96	0.03744	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.09402	43
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	-0.0208	-0.09258	44
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	SWPA	'TRUMAN 161KV'	102	-0.02176	-0.09162	44
WERE	'SOUTH SENECA 115KV'	16.7	0.00648	INDN	'MOCT 69KV'	30.8	0.0981	-0.09162	44
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	KACP	'HAWTHORN 161KV'	769	0.04069	-0.08921	45
MIPU	'NEVADA 69KV'	20.3	-0.04504	KACP	'HAWTHORN 161KV'	769	0.04069	-0.08573	47
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.08596	47
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	KACP	'NORTHEAST 161KV'	73	0.03744	-0.08596	47
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	KACP	'MONTROSE 161KV'	353.3117	-0.02851	-0.08487	48
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	MIPU	'LAKE ROAD 161KV'	35	0.03559	-0.08411	48
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.08411	48
MIPU	'NEVADA 69KV'	20.3	-0.04504	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.08248	49
MIPU	'NEVADA 69KV'	20.3	-0.04504	KACP	'NORTHEAST 161KV'	73	0.03744	-0.08248	49
MIPU	'NEVADA 69KV'	20.3	-0.04504	MIPU	'LAKE ROAD 161KV'	35	0.03559	-0.08063	50
MIPU	'NEVADA 69KV'	20.3	-0.04504	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.08063	50
MIPU	'TWA 161KV'	32.1	0.05031	INDN	'BLUE VALLEY 69KV'	85.08216	0.13146	-0.08115	50

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

INDN	'SUB I 69KV'	38	0.11208	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.07923	51
KACP	'MARSHALL 161KV'	54.1	-0.03658	KACP	'HAWTHORN 161KV'	769	0.04069	-0.07727	52
MIPU	'LAKE ROAD 161KV'	91	0.03559	INDN	'SUB H 69KV'	29.07014	0.11176	-0.07617	53
KACP	'NORTHEAST 13KV'	70.17432	0.03744	INDN	'SUB H 69KV'	29.07014	0.11176	-0.07432	54
KACP	'NORTHEAST 161KV'	96	0.03744	INDN	'SUB H 69KV'	29.07014	0.11176	-0.07432	54
KACP	'MARSHALL 161KV'	54.1	-0.03658	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.07402	55
KACP	'MARSHALL 161KV'	54.1	-0.03658	KACP	'NORTHEAST 161KV'	73	0.03744	-0.07402	55
KACP	'MARSHALL 161KV'	54.1	-0.03658	MIPU	'LAKE ROAD 161KV'	35	0.03559	-0.07217	56
KACP	'MARSHALL 161KV'	54.1	-0.03658	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.07217	56
INDN	'SUBSTATION J 69KV'	30	0.11885	MIPU	'SIBLEY 161KV'	232.8084	0.19131	-0.07246	56
KACP	'MONTROSE 161KV'	27.68829	-0.02851	KACP	'HAWTHORN 161KV'	769	0.04069	-0.0692	58
KACP	'MONTROSE 161KV'	27.68829	-0.02851	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.06595	61
KACP	'MONTROSE 161KV'	27.68829	-0.02851	KACP	'NORTHEAST 161KV'	73	0.03744	-0.06595	61
MIPU	'RALPH GREEN 69KV'	73.7	-0.11338	MIPU	'SOUTH HARPER 161KV'	252.4078	-0.04852	-0.06486	62
KACP	'MONTROSE 161KV'	27.68829	-0.02851	MIPU	'LAKE ROAD 161KV'	35	0.03559	-0.0641	63
KACP	'MONTROSE 161KV'	27.68829	-0.02851	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.0641	63
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	KACP	'IATAN 345KV'	396	0.01567	-0.06419	63
MIPU	'LAKE ROAD 161KV'	91	0.03559	INDN	'MOCT 69KV'	30.8	0.0981	-0.06251	65
SWPA	'TRUMAN 161KV'	78.00002	-0.02176	KACP	'HAWTHORN 161KV'	769	0.04069	-0.06245	65
MIPU	'TWA 161KV'	32.1	0.05031	INDN	'SUB H 69KV'	29.07014	0.11176	-0.06145	66
KACP	'NORTHEAST 13KV'	70.17432	0.03744	INDN	'MOCT 69KV'	30.8	0.0981	-0.06066	67
KACP	'NORTHEAST 161KV'	96	0.03744	INDN	'MOCT 69KV'	30.8	0.0981	-0.06066	67
SWPA	'TRUMAN 161KV'	78.00002	-0.02176	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.0592	68
SWPA	'TRUMAN 161KV'	78.00002	-0.02176	KACP	'NORTHEAST 161KV'	73	0.03744	-0.0592	68
SWPA	'TRUMAN 161KV'	78.00002	-0.02176	MIPU	'LAKE ROAD 161KV'	35	0.03559	-0.05735	70
SWPA	'TRUMAN 161KV'	78.00002	-0.02176	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.05735	70
KACP	'MARSHALL 161KV'	54.1	-0.03658	KACP	'IATAN 345KV'	396	0.01567	-0.05225	77
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	SWPA	'CLARENCE CANNON DAM 69KV'	39.2	0.00407	-0.05259	77
INDN	'SUB I 69KV'	38	0.11208	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.05158	78
WERE	'CHANUTE 69KV'	31.077	-0.01063	KACP	'HAWTHORN 161KV'	769	0.04069	-0.05132	79
SWPA	'BEAVER 161KV'	27.49995	-0.00836	KACP	'HAWTHORN 161KV'	769	0.04069	-0.04905	82
WERE	'GETTY 69KV'	35	-0.00859	KACP	'HAWTHORN 161KV'	769	0.04069	-0.04928	82
WERE	'GILL ENERGY CENTER 138KV'	49	-0.00857	KACP	'HAWTHORN 161KV'	769	0.04069	-0.04926	82
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.0005	-0.04902	82
WERE	'CHANUTE 69KV'	31.077	-0.01063	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.04807	84
WERE	'CHANUTE 69KV'	31.077	-0.01063	KACP	'NORTHEAST 161KV'	73	0.03744	-0.04807	84
WERE	'EMPORIA 345KV'	828	-0.00746	KACP	'HAWTHORN 161KV'	769	0.04069	-0.04815	84
SWPA	'KEYSTONE DAM 161KV'	50	-0.00735	KACP	'HAWTHORN 161KV'	769	0.04069	-0.04804	84
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	-0.00062	-0.0479	84
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	-0.00062	-0.0479	84
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.0003	-0.04822	84
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	SWPA	'SIKESTON 161KV'	235	-0.00039	-0.04813	84
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	WERE	'BPU - CITY OF MCPHERSON 115KV'	152.9756	-0.00072	-0.0478	85
MIPU	'TWA 161KV'	32.1	0.05031	INDN	'MOCT 69KV'	30.8	0.0981	-0.04779	85
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00155	-0.04697	86
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	SWPA	'JONESBORO 161KV'	63	-0.00161	-0.04691	86
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00161	-0.04691	86
SWPA	'WEBBERS FALLS 161KV'	30	-0.00614	KACP	'HAWTHORN 161KV'	769	0.04069	-0.04683	86
SWPA	'BULL SHOALS 161KV'	110.9	-0.00555	KACP	'HAWTHORN 161KV'	769	0.04069	-0.04624	87
WERE	'CHANUTE 69KV'	31.077	-0.01063	MIPU	'LAKE ROAD 161KV'	35	0.03559	-0.04622	87
WERE	'CHANUTE 69KV'	31.077	-0.01063	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.04622	87
WERE	'GETTY 69KV'	35	-0.00859	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.04603	88
WERE	'GETTY 69KV'	35	-0.00859	KACP	'NORTHEAST 161KV'	73	0.03744	-0.04603	88
WERE	'GILL ENERGY CENTER 138KV'	49	-0.00857	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.04601	88
WERE	'GILL ENERGY CENTER 138KV'	49	-0.00857	KACP	'NORTHEAST 161KV'	73	0.03744	-0.04601	88
SWPA	'ROBERT S. KERR 161KV'	74.5	-0.00524	KACP	'HAWTHORN 161KV'	769	0.04069	-0.04593	88
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	SWPA	'GREERS FERRY 161KV'	93.4	-0.00286	-0.04566	88
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	WERE	'LAWRENCE ENERGY CENTER 230KV'	225.7295	-0.00267	-0.04585	88
SWPA	'OZARK 161KV'	64.90001	-0.00463	KACP	'HAWTHORN 161KV'	769	0.04069	-0.04532	89
KACP	'BULL CREEK 161KV'	65	-0.0041	KACP	'HAWTHORN 161KV'	769	0.04069	-0.04479	90
WERE	'EMPORIA 345KV'	828	-0.00746	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.0449	90
WERE	'EMPORIA 345KV'	828	-0.00746	KACP	'NORTHEAST 161KV'	73	0.03744	-0.0449	90
SWPA	'KEYSTONE DAM 161KV'	50	-0.00735	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.04479	90
SWPA	'KEYSTONE DAM 161KV'	50	-0.00735	KACP	'NORTHEAST 161KV'	73	0.03744	-0.04479	90
INDN	'SUBSTATION J 69KV'	30	0.11885	MIPU	'SIBLEY 69KV'	45.99999	0.16366	-0.04481	90
WERE	'GETTY 69KV'	35	-0.00859	MIPU	'LAKE ROAD 161KV'	35	0.03559	-0.04418	91
WERE	'GETTY 69KV'	35	-0.00859	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.04418	91
WERE	'GILL ENERGY CENTER 138KV'	49	-0.00857	MIPU	'LAKE ROAD 161KV'	35	0.03559	-0.04416	91
WERE	'GILL ENERGY CENTER 138KV'	49	-0.00857	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.04416	91
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	KACP	'BULL CREEK 161KV'	308	-0.0041	-0.04442	91
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	SWPA	'BROKEN BOW 138KV'	93.4	-0.00466	-0.04386	92
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	SWPA	'OZARK 161KV'	130.6	-0.00463	-0.04389	92
WERE	'LAWRENCE ENERGY CENTER 230KV'	43.27051	-0.00267	KACP	'HAWTHORN 161KV'	769	0.04069	-0.04336	93
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	SWPA	'ROBERT S. KERR 161KV'	314.2	-0.00524	-0.04328	93
SWPA	'BULL SHOALS 161KV'	110.9	-0.00555	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.04299	94
SWPA	'BULL SHOALS 161KV'	110.9	-0.00555	KACP	'NORTHEAST 161KV'	73	0.03744	-0.04299	94
WERE	'EMPORIA 345KV'	828	-0.00746	MIPU	'LAKE ROAD 161KV'	35	0.03559	-0.04305	94
WERE	'EMPORIA 345KV'	828	-0.00746	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.04305	94
SWPA	'KEYSTONE DAM 161KV'	50	-0.00735	MIPU	'LAKE ROAD 161KV'	35	0.03559	-0.04294	94
SWPA	'KEYSTONE DAM 161KV'	50	-0.00735	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.04294	94
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	SWPA	'BULL SHOALS 161KV'	278.7	-0.00555	-0.04297	94
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	SWPA	'DENISON 138KV'	59.40001	-0.00573	-0.04279	94
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.00186	KACP	'HAWTHORN 161KV'	769	0.04069	-0.04255	95
SWPA	'ROBERT S. KERR 161KV'	74.5	-0.00524	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.04268	95
SWPA	'ROBERT S. KERR 161KV'	74.5	-0.00524	KACP	'NORTHEAST 161KV'	73	0.03744	-0.04268	95
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	SWPA	'EUFULA 138KV'	51	-0.00592	-0.0426	95
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	SWPA	'EUFULA 161KV'	69.6	-0.00592	-0.0426	95
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	SWPA	'WEBBERS FALLS 161KV'	39	-0.00614	-0.04238	95
SWPA	'OZARK 161KV'	64.90001	-0.00463	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.04207	96
SWPA	'OZARK 161KV'	64.90001	-0.00463	KACP	'NORTHEAST 161KV'	73	0.03744	-0.04207	96
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.00147	KACP	'HAWTHORN 161KV'	769	0.04069	-0.04216	96
KACP	'BULL CREEK 161KV'	65	-0.0041	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.04154	97
KACP	'BULL CREEK 161KV'	65	-0.0041	KACP	'NORTHEAST 161KV'	73	0.03744	-0.04154	97
SWPA	'BULL SHOALS 161KV'	110.9	-0.00555	MIPU	'LAKE ROAD 161KV'	35	0.03559	-0.04114	98
SWPA	'BULL SHOALS 161KV'	110.9	-0.00555	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.04114	98
WERE	'HUTCHINSON ENERGY CENTER 115KV'	141	-0.00062	KACP	'HAWTHORN 161KV'	769	0.04069	-0.04131	98
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	SWPA	'KEYSTONE DAM 161KV'	150.2	-0.00735	-0.04117	98
KACP	'MARSHALL 161KV'	54.1	-0.03658	SWPA	'CLARENCE CANNON DAM 69KV'	39.2	0.00407	-0.04065	99
SWPA	'ROBERT S. KERR 161KV'	74.5	-0.00524	MIPU	'LAKE ROAD 161KV'	35	0.03559	-0.04083	99
SWPA	'ROBERT S. KERR 161KV'	74.5	-0.00524	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.04083	99
SWPA	'OZARK 161KV'	64.90001	-0.00463	MIPU	'LAKE ROAD 161KV'	35	0.03559	-0.04022	100
SWPA	'OZARK 161KV'	64.90001	-0.00463	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.04022	100
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.0005	KACP	'HAWTHORN 161KV'	769	0.04069	-0.04019	101

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

WERE	'LAWRENCE ENERGY CENTER 230KV'	43.27051	-0.00267	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.04011	101
WERE	'LAWRENCE ENERGY CENTER 230KV'	43.27051	-0.00267	KACP	'NORTHEAST 161KV'	73	0.03744	-0.04011	101
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	SWPA	'BEAVER 161KV'	138.1001	-0.00836	-0.04016	101
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	WERE	'GILL ENERGY CENTER 138KV'	171	-0.00857	-0.03995	101
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	WERE	'GILL ENERGY CENTER 69KV'	75	-0.00864	-0.03988	101
KACP	'BULL CREEK 161KV'	65	-0.0041	MIPU	'LAKE ROAD 161KV'	35	0.03559	-0.03969	102
KACP	'BULL CREEK 161KV'	65	-0.0041	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.03969	102
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.00874	-0.03978	102
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.00186	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.0393	103
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.00186	KACP	'NORTHEAST 161KV'	73	0.03744	-0.0393	103
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.00147	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.03891	104
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.00147	KACP	'NORTHEAST 161KV'	73	0.03744	-0.03891	104
WERE	'HUTCHINSON ENERGY CENTER 115KV'	141	-0.00062	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.03806	106
WERE	'HUTCHINSON ENERGY CENTER 115KV'	141	-0.00062	KACP	'NORTHEAST 161KV'	73	0.03744	-0.03806	106
WERE	'LAWRENCE ENERGY CENTER 230KV'	43.27051	-0.00267	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.03826	106
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	WERE	'CHANUTE 69KV'	56.723	-0.01063	-0.03789	107
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.00186	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.03745	108
SWPA	'TRUMAN 161KV'	78.00002	-0.02176	KACP	'IATAN 345KV'	396	0.01567	-0.03743	108
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.0005	KACP	'NORTHEAST 13KV'	98.82568	0.03744	-0.03694	109
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.0005	KACP	'NORTHEAST 161KV'	73	0.03744	-0.03694	109
KACP	'MARSHALL 161KV'	54.1	-0.03658	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.0005	-0.03708	109
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.00147	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.03706	109
KACP	'MARSHALL 161KV'	54.1	-0.03658	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.0003	-0.03628	111
WERE	'HUTCHINSON ENERGY CENTER 115KV'	141	-0.00062	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.03621	112
KACP	'MARSHALL 161KV'	54.1	-0.03658	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	-0.00062	-0.03596	112
KACP	'MARSHALL 161KV'	54.1	-0.03658	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	-0.00062	-0.03596	112
KACP	'MARSHALL 161KV'	54.1	-0.03658	SWPA	'SIKESTON 161KV'	235	-0.00039	-0.03619	112
KACP	'MARSHALL 161KV'	54.1	-0.03658	WERE	'BPU - CITY OF MCPHERSON 115KV'	152.9756	-0.00072	-0.03586	113
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.0005	MIPU	'LAKE ROAD 34KV'	92	0.03559	-0.03509	115
KACP	'MARSHALL 161KV'	54.1	-0.03658	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00155	-0.03503	115
KACP	'MARSHALL 161KV'	54.1	-0.03658	SWPA	'JONESBORO 161KV'	63	-0.00161	-0.03497	116
KACP	'MARSHALL 161KV'	54.1	-0.03658	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00161	-0.03497	116
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04852	KACP	'LACYGNE UNIT 345KV'	958	-0.01404	-0.03448	117
KACP	'MARSHALL 161KV'	54.1	-0.03658	WERE	'LAWRENCE ENERGY CENTER 230KV'	225.7295	-0.00287	-0.03391	119
KACP	'MARSHALL 161KV'	54.1	-0.03658	SWPA	'GREERS FERRY 161KV'	93.4	-0.00286	-0.03372	120
KACP	'MARSHALL 161KV'	54.1	-0.03658	KACP	'BULL CREEK 161KV'	308	-0.0041	-0.03248	124
KACP	'MARSHALL 161KV'	54.1	-0.03658	SWPA	'OZARK 161KV'	130.6	-0.00463	-0.03195	126
KACP	'MARSHALL 161KV'	54.1	-0.03658	SWPA	'BROKEN BOW 138KV'	93.4	-0.00466	-0.03192	127
KACP	'MARSHALL 161KV'	54.1	-0.03658	SWPA	'ROBERT S. KERR 161KV'	314.2	-0.00524	-0.03134	129
KACP	'MARSHALL 161KV'	54.1	-0.03658	SWPA	'BULL SHOALS 161KV'	278.7	-0.00555	-0.03103	130
KACP	'MARSHALL 161KV'	54.1	-0.03658	SWPA	'DENISON 138KV'	59.40001	-0.00573	-0.03085	131
KACP	'MARSHALL 161KV'	54.1	-0.03658	SWPA	'EUFAULA 138KV'	51	-0.00592	-0.03066	132
KACP	'MARSHALL 161KV'	54.1	-0.03658	SWPA	'EUFAULA 161KV'	69.6	-0.00592	-0.03066	132

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

Upgrade: BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1
 Limiting Facility: BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1
 Direction: To->From
 Line Outage: PLEASANT HILL () 345/161/13.8KV TRANSFORMER CKT 1
 Flowgate: 59205592351PHILL737514107SP
 Date Redispatch Needed: 6/1/07 - 10/1/07
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount
1162650	1.6	3.1
1162651	1.5	3.1

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.42724	7
MIPU	'ARIES 161KV'	595	-0.24217	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.39705	8
MIPU	'ARIES 161KV'	595	-0.24217	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.3749	8
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.3835	8
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.40509	8
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	INDN	'SUB H 69KV'	29.07014	0.09362	-0.36598	8
MIPU	'ARIES 161KV'	595	-0.24217	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.35331	9
MIPU	'ARIES 161KV'	595	-0.24217	INDN	'SUB H 69KV'	29.07014	0.09362	-0.33579	9
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	INDN	'MOCT 69KV'	30.8	0.07925	-0.35161	9
MIPU	'ARIES 161KV'	595	-0.24217	INDN	'MOCT 69KV'	30.8	0.07925	-0.32142	10
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	KACP	'HAWTHORN 161KV'	769	0.03173	-0.30409	10
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	MIPU	'LAKE ROAD 161KV'	35	0.0288	-0.30116	10
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	MIPU	'LAKE ROAD 34KV'	92	0.0288	-0.30116	10
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	KACP	'NORTHEAST 13KV'	98.82568	0.0283	-0.30066	10
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	KACP	'NORTHEAST 161KV'	73	0.0283	-0.30066	10
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.31648	10
MIPU	'ARIES 161KV'	595	-0.24217	KACP	'HAWTHORN 161KV'	769	0.03173	-0.2739	11
MIPU	'ARIES 161KV'	595	-0.24217	MIPU	'LAKE ROAD 161KV'	35	0.0288	-0.27097	11
MIPU	'ARIES 161KV'	595	-0.24217	MIPU	'LAKE ROAD 34KV'	92	0.0288	-0.27097	11
MIPU	'ARIES 161KV'	595	-0.24217	KACP	'NORTHEAST 13KV'	98.82568	0.0283	-0.27047	11
MIPU	'ARIES 161KV'	595	-0.24217	KACP	'NORTHEAST 161KV'	73	0.0283	-0.27047	11
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00157	-0.27079	11
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	WERE	'BPU - CITY OF MCPHERSON 115KV'	152.9756	-0.00089	-0.27147	11
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	SWPA	'CLARENCE CANNON DAM 69KV'	39.2	0.00511	-0.27747	11
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	-0.00078	-0.27158	11
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	-0.00078	-0.27158	11
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	KACP	'IATAN 345KV'	396	0.01163	-0.28399	11
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00078	-0.27158	11
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00023	-0.27213	11
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	SWPA	'JONESBORO 161KV'	63	-0.00162	-0.27074	11
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	SWPA	'KENNETT 69KV'	7.2	-0.00094	-0.27142	11
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	SWPA	'MALDEN 69KV'	7	-0.0007	-0.27166	11
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	SWPA	'PARAGOULD 69KV'	5.5	-0.00133	-0.27103	11
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	SWPA	'POPLAR BLUFF 69KV'	6	-0.00087	-0.27149	11
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	SWPA	'SIKESTON 161KV'	235	-0.00024	-0.27212	11
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00192	-0.27044	11
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.27274	11
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.29433	11
MIPU	'ARIES 161KV'	595	-0.24217	KACP	'IATAN 345KV'	396	0.01163	-0.2538	12

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

MIPU	'GREENWOOD 161KV'	255.8	-0.27236	SWPA	'BEAVER 161KV'	138.1001	-0.00929	-0.26307	12
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	SWPA	'BROKEN BOW 138KV'	93.4	-0.00464	-0.26772	12
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	KACP	'BULL CREEK 161KV'	308	-0.00839	-0.26397	12
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	SWPA	'BULL SHOALS 161KV'	278.7	-0.00623	-0.26613	12
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	SWPA	'CARTHAGE 69KV'	30	-0.01435	-0.25801	12
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	WERE	'CHANUTE 69KV'	56.723	-0.01078	-0.26158	12
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00763	-0.26473	12
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	WERE	'CITY OF BURLINGTON 69KV'	34.753	-0.00942	-0.26294	12
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	WERE	'CITY OF ERIE 69KV'	23.27	-0.01078	-0.26158	12
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	WERE	'CITY OF GIRARD 69KV'	4.789	-0.0114	-0.26096	12
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	WERE	'CITY OF IOLA 69KV'	24.267	-0.01186	-0.2605	12
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	WERE	'CITY OF MULVANE 69KV'	8.288	-0.00766	-0.2647	12
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	WERE	'CITY OF NEODESHA 69KV'	4.494	-0.00929	-0.26307	12
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	WERE	'CITY OF WINFIELD 69KV'	27.962	-0.0074	-0.26496	12
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	-0.00942	-0.26294	12
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	SWPA	'DENISON 138KV'	59.40001	-0.00566	-0.2667	12
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	SWPA	'EUFULA 138KV'	51	-0.00602	-0.26634	12
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	SWPA	'EUFULA 161KV'	69.6	-0.00602	-0.26634	12
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.00751	-0.26485	12
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	WERE	'GILL ENERGY CENTER 138KV'	171	-0.00741	-0.26495	12
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	WERE	'GILL ENERGY CENTER 69KV'	75	-0.00747	-0.26489	12
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	SWPA	'GREERS FERRY 161KV'	93.4	-0.003	-0.26936	12
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	SWPA	'KEYSTONE DAM 161KV'	150.2	-0.00741	-0.26495	12
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	KACP	'LACYGNE UNIT 345KV'	958	-0.01107	-0.26129	12
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	WERE	'LAWRENCE ENERGY CENTER 230KV'	225.7295	-0.00315	-0.26921	12
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	SWPA	'OZARK 161KV'	130.6	-0.00477	-0.26759	12
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	SWPA	'ROBERT S. KERR 161KV'	314.2	-0.00536	-0.267	12
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	WERE	'WACO 138KV'	17.96	-0.00742	-0.26494	12
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	SWPA	'WEBBERS FALLS 161KV'	39	-0.00626	-0.2661	12
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	INDN	'SUB H 69KV'	29.07014	0.09362	-0.25522	12
MIPU	'ARIES 161KV'	595	-0.24217	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00157	-0.2406	13
MIPU	'ARIES 161KV'	595	-0.24217	SWPA	'BEAVER 161KV'	138.1001	-0.00929	-0.23288	13
MIPU	'ARIES 161KV'	595	-0.24217	WERE	'BPU - CITY OF MCPHERSON 115KV'	152.9756	-0.00889	-0.24128	13
MIPU	'ARIES 161KV'	595	-0.24217	SWPA	'BROKEN BOW 138KV'	93.4	-0.00464	-0.23753	13
MIPU	'ARIES 161KV'	595	-0.24217	KACP	'BULL CREEK 161KV'	308	-0.00839	-0.23378	13
MIPU	'ARIES 161KV'	595	-0.24217	SWPA	'BULL SHOALS 161KV'	278.7	-0.00623	-0.23594	13
MIPU	'ARIES 161KV'	595	-0.24217	WERE	'CHANUTE 69KV'	56.723	-0.01078	-0.23139	13
MIPU	'ARIES 161KV'	595	-0.24217	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00763	-0.23454	13
MIPU	'ARIES 161KV'	595	-0.24217	WERE	'CITY OF BURLINGTON 69KV'	34.753	-0.00942	-0.23275	13
MIPU	'ARIES 161KV'	595	-0.24217	WERE	'CITY OF ERIE 69KV'	23.27	-0.01078	-0.23139	13
MIPU	'ARIES 161KV'	595	-0.24217	WERE	'CITY OF GIRARD 69KV'	4.789	-0.0114	-0.23077	13
MIPU	'ARIES 161KV'	595	-0.24217	WERE	'CITY OF IOLA 69KV'	24.267	-0.01186	-0.23031	13
MIPU	'ARIES 161KV'	595	-0.24217	WERE	'CITY OF MULVANE 69KV'	8.288	-0.00766	-0.23451	13
MIPU	'ARIES 161KV'	595	-0.24217	WERE	'CITY OF NEODESHA 69KV'	4.494	-0.00929	-0.23288	13
MIPU	'ARIES 161KV'	595	-0.24217	WERE	'CITY OF WINFIELD 69KV'	27.962	-0.0074	-0.23477	13
MIPU	'ARIES 161KV'	595	-0.24217	SWPA	'CLARENCE CANNON DAM 69KV'	39.2	0.00511	-0.24728	13
MIPU	'ARIES 161KV'	595	-0.24217	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	-0.00942	-0.23275	13
MIPU	'ARIES 161KV'	595	-0.24217	SWPA	'DENISON 138KV'	59.40001	-0.00566	-0.23651	13
MIPU	'ARIES 161KV'	595	-0.24217	SWPA	'EUFULA 138KV'	51	-0.00602	-0.23615	13
MIPU	'ARIES 161KV'	595	-0.24217	SWPA	'EUFULA 161KV'	69.6	-0.00602	-0.23615	13
MIPU	'ARIES 161KV'	595	-0.24217	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.00751	-0.23466	13
MIPU	'ARIES 161KV'	595	-0.24217	WERE	'GILL ENERGY CENTER 138KV'	171	-0.00741	-0.23476	13
MIPU	'ARIES 161KV'	595	-0.24217	WERE	'GILL ENERGY CENTER 69KV'	75	-0.00747	-0.2347	13
MIPU	'ARIES 161KV'	595	-0.24217	SWPA	'GREERS FERRY 161KV'	93.4	-0.003	-0.23917	13
MIPU	'ARIES 161KV'	595	-0.24217	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	-0.00078	-0.24139	13
MIPU	'ARIES 161KV'	595	-0.24217	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	-0.00078	-0.24139	13
MIPU	'ARIES 161KV'	595	-0.24217	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00078	-0.24139	13
MIPU	'ARIES 161KV'	595	-0.24217	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00023	-0.24194	13
MIPU	'ARIES 161KV'	595	-0.24217	SWPA	'JONESBORO 161KV'	63	-0.00162	-0.24055	13
MIPU	'ARIES 161KV'	595	-0.24217	SWPA	'KENNETT 69KV'	7.2	-0.00094	-0.24123	13
MIPU	'ARIES 161KV'	595	-0.24217	SWPA	'KEYSTONE DAM 161KV'	150.2	-0.00741	-0.23476	13
MIPU	'ARIES 161KV'	595	-0.24217	KACP	'LACYGNE UNIT 345KV'	958	-0.01107	-0.2311	13
MIPU	'ARIES 161KV'	595	-0.24217	WERE	'LAWRENCE ENERGY CENTER 230KV'	225.7295	-0.00315	-0.23902	13
MIPU	'ARIES 161KV'	595	-0.24217	SWPA	'MALDEN 69KV'	7	-0.0007	-0.24147	13
MIPU	'ARIES 161KV'	595	-0.24217	SWPA	'OZARK 161KV'	130.6	-0.00477	-0.2374	13
MIPU	'ARIES 161KV'	595	-0.24217	SWPA	'PARAGOULD 69KV'	5.5	-0.00133	-0.24084	13
MIPU	'ARIES 161KV'	595	-0.24217	SWPA	'POPLAR BLUFF 69KV'	6	-0.00087	-0.2413	13
MIPU	'ARIES 161KV'	595	-0.24217	SWPA	'ROBERT S. KERR 161KV'	314.2	-0.00536	-0.23681	13
MIPU	'ARIES 161KV'	595	-0.24217	SWPA	'SIKESTON 161KV'	235	-0.00024	-0.24193	13
MIPU	'ARIES 161KV'	595	-0.24217	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00192	-0.24025	13
MIPU	'ARIES 161KV'	595	-0.24217	WERE	'WACO 138KV'	17.96	-0.00742	-0.23475	13
MIPU	'ARIES 161KV'	595	-0.24217	SWPA	'WEBBERS FALLS 161KV'	39	-0.00626	-0.23591	13
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	KACP	'MONTROSE 161KV'	353.3117	-0.04236	-0.23	13
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	-0.02478	-0.24758	13
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	SWPA	'TRUMAN 161KV'	102	-0.02445	-0.24791	13
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	INDN	'MOCT 69KV'	30.8	0.07925	-0.24085	13
MIPU	'ARIES 161KV'	595	-0.24217	SWPA	'CARTHAGE 69KV'	30	-0.01435	-0.22782	14
MIPU	'ARIES 161KV'	595	-0.24217	KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	-0.02478	-0.21739	14
MIPU	'ARIES 161KV'	595	-0.24217	SWPA	'TRUMAN 161KV'	102	-0.02445	-0.21772	14
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	MIPU	'SOUTH HARPER 161KV'	252.4078	-0.04991	-0.22245	14
MIPU	'NEVADA 69KV'	20.3	-0.06382	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.2187	14
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.20479	15
MIPU	'ARIES 161KV'	595	-0.24217	KACP	'MONTROSE 161KV'	353.3117	-0.04236	-0.19981	16
MIPU	'ARIES 161KV'	595	-0.24217	MIPU	'SOUTH HARPER 161KV'	252.4078	-0.04991	-0.19226	16
KACP	'MONTROSE 161KV'	27.68829	-0.04236	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.19724	16
MIPU	'NEVADA 69KV'	20.3	-0.06382	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.19655	16
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	KACP	'HAWTHORN 161KV'	769	0.03173	-0.19333	16
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	MIPU	'LAKE ROAD 161KV'	35	0.0288	-0.1904	16
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	MIPU	'LAKE ROAD 34KV'	92	0.0288	-0.1904	16
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	KACP	'NORTHEAST 13KV'	98.82568	0.0283	-0.1899	16
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	KACP	'NORTHEAST 161KV'	73	0.0283	-0.1899	16
MIPU	'GREENWOOD 161KV'	255.8	-0.27236	KACP	'CITY OF HIGGINSVILLE 69KV'	35	-0.09342	-0.17894	17
KACP	'MARSHALL 161KV'	54.1	-0.02279	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.17767	17
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.18264	17
SWPA	'TRUMAN 161KV'	78.00002	-0.02445	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.17933	17
KACP	'MONTROSE 161KV'	27.68829	-0.04236	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.17509	18
MIPU	'NEVADA 69KV'	20.3	-0.06382	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.17496	18
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	KACP	'IATAN 345KV'	396	0.01163	-0.17323	18
SWPA	'BEAVER 161KV'	27.49995	-0.00929	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.16417	19
SWPA	'BROKEN BOW 138KV'	16.6	-0.00464	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.15952	19
KACP	'BULL CREEK 161KV'	65	-0.00839	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.16327	19
SWPA	'BULL SHOALS 161KV'	110.9	-0.00623	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.16111	19
WERE	'CHANUTE 69KV'	31.077	-0.01078	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.16566	19

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

WERE	'CITY OF AUGUSTA 69KV'	10.141	-0.00763	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.16251	19
WERE	'CITY OF BURLINGTON 69KV'	21.247	-0.00942	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.1643	19
WERE	'CITY OF FREDONIA 69KV'	9.173	-0.00942	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.1643	19
WERE	'CITY OF IOLA 69KV'	13.361	-0.01186	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.16674	19
WERE	'CITY OF MULVANE 69KV'	7.502	-0.00766	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.16254	19
WERE	'CITY OF WINFIELD 69KV'	12.038	-0.0074	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.16228	19
SWPA	'DENISON 138KV'	10.59999	-0.00566	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.16054	19
WERE	'EMPORIA 345KV'	828	-0.00574	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.16062	19
SWPA	'EUFAULA 138KV'	9.000004	-0.00602	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.1609	19
SWPA	'EUFAULA 161KV'	12.4	-0.00602	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.1609	19
WERE	'EVANS ENERGY CENTER 138KV'	8	-0.00751	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.16239	19
KACP	'GARDNER 161KV'	11	-0.00964	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.16452	19
WERE	'GETTY 69KV'	35	-0.00753	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.16241	19
WERE	'GILL ENERGY CENTER 138KV'	49	-0.00741	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.16229	19
WERE	'GILL ENERGY CENTER 69KV'	8	-0.00747	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.16235	19
SWPA	'KEYSTONE DAM 161KV'	50	-0.00741	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.16229	19
SWPA	'OZARK 161KV'	64.90001	-0.00477	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.15965	19
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00157	-0.16003	19
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	WERE	'BPU - CITY OF MCPHERSON 115KV'	152.9756	-0.00089	-0.16071	19
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	SWPA	'CLARENCE CANNON DAM 69KV'	39.2	0.00511	-0.16671	19
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	-0.00078	-0.16082	19
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	-0.00078	-0.16082	19
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00078	-0.16082	19
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00023	-0.16137	19
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	SWPA	'JONESBORO 161KV'	63	-0.00162	-0.15998	19
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	SWPA	'KENNETT 69KV'	7.2	-0.00094	-0.16066	19
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	SWPA	'MALDEN 69KV'	7	-0.0007	-0.1609	19
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	SWPA	'SKESTON 161KV'	235	-0.00024	-0.16136	19
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00192	-0.15968	19
SWPA	'ROBERT S. KERR 161KV'	74.5	-0.00536	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.16024	19
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.16105	19
SWPA	'WEBBERS FALLS 161KV'	30	-0.00626	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.16114	19
WERE	'BPU - CITY OF MCPHERSON 115KV'	21.02441	-0.00089	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.15577	20
WERE	'CITY OF OSAGE CITY 115KV'	8.85	-0.00379	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.15867	20
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.00181	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.15669	20
SWPA	'GREERS FERRY 161KV'	16.6	-0.003	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.15788	20
WERE	'HOLTON 115KV'	19.8	0.00284	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.15204	20
WERE	'HUTCHINSON ENERGY CENTER 115KV'	141	-0.00078	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.15566	20
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	-0.00078	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.15566	20
SWPA	'INDEPENDENCE 161KV'	13	-0.00267	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.15755	20
WERE	'JEFFREY ENERGY CENTER 230KV'	24	-0.00078	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.15566	20
WERE	'JEFFREY ENERGY CENTER 345KV'	42	-0.00023	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.15511	20
SWPA	'KENNETT 69KV'	21.8	-0.00094	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.15582	20
WERE	'LAWRENCE ENERGY CENTER 230KV'	43.27051	-0.00315	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.15803	20
SWPA	'MALDEN 69KV'	10	-0.0007	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.15558	20
KACP	'MARSHALL 161KV'	54.1	-0.02279	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.15552	20
KACP	'MONTROSE 161KV'	27.68829	-0.04236	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.1535	20
MIPU	'NEVADA 69KV'	20.3	-0.06382	INDN	'SUB H 69KV'	29.07014	0.09362	-0.15744	20
SWPA	'PARAGOULD 69KV'	12	-0.00133	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.15621	20
SWPA	'PIGGOTT 69KV'	7.5	-0.00085	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.15573	20
SWPA	'POPLAR BLUFF 69KV'	7	-0.00087	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.15575	20
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	SWPA	'BEAVER 161KV'	138.1001	-0.00929	-0.15231	20
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	SWPA	'BROKEN BOW 138KV'	93.4	-0.00464	-0.15696	20
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	KACP	'BULL CREEK 161KV'	308	-0.00839	-0.15321	20
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	SWPA	'BULL SHOALS 161KV'	278.7	-0.00623	-0.15537	20
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00763	-0.15397	20
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	WERE	'CITY OF BURLINGTON 69KV'	34.753	-0.00942	-0.15218	20
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	WERE	'CITY OF MULVANE 69KV'	8.288	-0.00766	-0.15394	20
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	WERE	'CITY OF WINFIELD 69KV'	27.962	-0.0074	-0.1542	20
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	-0.00942	-0.15218	20
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	SWPA	'DENISON 138KV'	59.40001	-0.00566	-0.15594	20
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	SWPA	'EUFAULA 138KV'	51	-0.00602	-0.15558	20
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	SWPA	'EUFAULA 161KV'	69.6	-0.00602	-0.15558	20
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.00751	-0.15409	20
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	WERE	'GILL ENERGY CENTER 138KV'	171	-0.00741	-0.15419	20
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	WERE	'GILL ENERGY CENTER 69KV'	75	-0.00747	-0.15413	20
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	SWPA	'GREERS FERRY 161KV'	93.4	-0.003	-0.1586	20
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	SWPA	'KEYSTONE DAM 161KV'	150.2	-0.00741	-0.15419	20
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	WERE	'LAWRENCE ENERGY CENTER 230KV'	225.7295	-0.00315	-0.15845	20
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	SWPA	'OZARK 161KV'	130.6	-0.00477	-0.15683	20
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	SWPA	'ROBERT S. KERR 161KV'	314.2	-0.00536	-0.15624	20
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	WERE	'WACO 138KV'	17.96	-0.00742	-0.15418	20
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	SWPA	'WEBBERS FALLS 161KV'	39	-0.00626	-0.15534	20
WERE	'ST JOHN 115KV'	7.5	-0.00037	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.15525	20
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.0018	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.15668	20
SWPA	'TRUMAN 161KV'	78.00002	-0.02445	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.15718	20
MIPU	'ARIES 161KV'	595	-0.24217	KACP	'CITY OF HIGGINSVILLE 69KV'	35	-0.09342	-0.14875	21
WERE	'CITY OF IOLA 69KV'	13.361	-0.01186	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.14459	21
SWPA	'CLARENCE CANNON DAM 69KV'	8.799999	0.00511	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.14977	21
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	SWPA	'CARTHAGE 69KV'	30	-0.01435	-0.14725	21
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	WERE	'CHANUTE 69KV'	56.723	-0.01078	-0.15082	21
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	WERE	'CITY OF ERIE 69KV'	23.27	-0.01078	-0.15082	21
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	WERE	'CITY OF IOLA 69KV'	24.267	-0.01186	-0.14974	21
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	KACP	'LACYGNE UNIT 345KV'	958	-0.01107	-0.15053	21
WERE	'SOUTH SENECA 115KV'	16.7	0.00497	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.14991	21
SWPA	'BEAVER 161KV'	27.49995	-0.00929	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.14202	22
KACP	'BULL CREEK 161KV'	65	-0.00839	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.14112	22
SWPA	'BULL SHOALS 161KV'	110.9	-0.00623	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.13896	22
WERE	'CHANUTE 69KV'	31.077	-0.01078	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.14351	22
WERE	'CITY OF AUGUSTA 69KV'	10.141	-0.00763	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.14036	22
WERE	'CITY OF BURLINGTON 69KV'	21.247	-0.00942	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.14215	22
WERE	'CITY OF FREDONIA 69KV'	9.173	-0.00942	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.14215	22
WERE	'CITY OF MULVANE 69KV'	7.502	-0.00766	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.14039	22
WERE	'CITY OF WINFIELD 69KV'	12.038	-0.0074	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.14013	22
SWPA	'DENISON 138KV'	10.59999	-0.00566	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.13839	22
WERE	'EMPORIA 345KV'	828	-0.00574	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.13847	22
SWPA	'EUFAULA 138KV'	9.000004	-0.00602	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.13875	22
SWPA	'EUFAULA 161KV'	12.4	-0.00602	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.13875	22
WERE	'EVANS ENERGY CENTER 138KV'	8	-0.00751	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.14024	22
KACP	'GARDNER 161KV'	11	-0.00964	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.14237	22
WERE	'GETTY 69KV'	35	-0.00753	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.14026	22
WERE	'GILL ENERGY CENTER 138KV'	49	-0.00741	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.14014	22
WERE	'GILL ENERGY CENTER 69KV'	8	-0.00747	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.1402	22

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

SWPA	'KEYSTONE DAM 161KV'	50	-0.00741	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.14014	22
MIPU	'NEVADA 69KV'	20.3	-0.06382	INDN	'MOCT 69KV'	30.8	0.07925	-0.14307	22
SWPA	'ROBERT S. KERR 161KV'	74.5	-0.00536	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.13809	22
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	INDN	'SUB H 69KV'	29.07014	0.09362	-0.14353	22
SWPA	'WEBBERS FALLS 161KV'	30	-0.00626	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.13899	22
WERE	'BPU - CITY OF MCPHERSON 115KV'	21.02441	-0.00089	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.13362	23
SWPA	'BROKEN BOW 138KV'	16.6	-0.00464	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.13737	23
WERE	'CITY OF OSAGE CITY 115KV'	8.85	-0.00379	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.13652	23
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.00181	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.13454	23
SWPA	'GREERS FERRY 161KV'	16.6	-0.003	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.13573	23
WERE	'HUTCHINSON ENERGY CENTER 115KV'	141	-0.00078	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.13351	23
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	-0.00078	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.13351	23
SWPA	'INDEPENDENCE 161KV'	13	-0.00267	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.1354	23
WERE	'JEFFREY ENERGY CENTER 230KV'	24	-0.00078	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.13351	23
WERE	'JEFFREY ENERGY CENTER 345KV'	42	-0.00023	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.13296	23
SWPA	'KENNETT 69KV'	21.8	-0.00094	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.13367	23
WERE	'LAWRENCE ENERGY CENTER 230KV'	43.27051	-0.00315	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.13588	23
SWPA	'MALDEN 69KV'	10	-0.0007	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.13343	23
KACP	'MARSHALL 161KV'	54.1	-0.02279	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.13393	23
KACP	'MONTROSE 161KV'	27.68829	-0.04236	INDN	'SUB H 69KV'	29.07014	0.09362	-0.13598	23
SWPA	'OZARK 161KV'	64.90001	-0.00477	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.1375	23
SWPA	'PARAGOULD 69KV'	12	-0.00133	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.13406	23
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	-0.02478	-0.13682	23
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	SWPA	'TRUMAN 161KV'	102	-0.02445	-0.13715	23
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.0018	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.13453	23
SWPA	'TRUMAN 161KV'	78.00002	-0.02445	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.13559	23
SWPA	'CLARENCE CANNON DAM 69KV'	8.799999	0.00511	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.12762	24
WERE	'HOLTON 115KV'	19.8	0.00284	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.12989	24
KACP	'NORTHEAST 13KV'	70.17432	0.0283	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.12658	24
KACP	'NORTHEAST 161KV'	96	0.0283	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.12658	24
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	INDN	'MOCT 69KV'	30.8	0.07925	-0.12916	24
WERE	'SOUTH SENECA 115KV'	16.7	0.00497	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.12776	24
WERE	'CHANUTE 69KV'	31.077	-0.01078	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.12192	25
WERE	'CITY OF IOLA 69KV'	13.361	-0.01186	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.123	25
MIPU	'LAKE ROAD 161KV'	91	0.0288	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.12608	25
KACP	'MONTROSE 161KV'	27.68829	-0.04236	INDN	'MOCT 69KV'	30.8	0.07925	-0.12161	25
SWPA	'BEAVER 161KV'	27.49995	-0.00929	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.12043	26
KACP	'BULL CREEK 161KV'	65	-0.00839	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.11953	26
SWPA	'BULL SHOALS 161KV'	110.9	-0.00623	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.11737	26
WERE	'CITY OF AUGUSTA 69KV'	10.141	-0.00763	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.11877	26
WERE	'CITY OF BURLINGTON 69KV'	21.247	-0.00942	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.12056	26
WERE	'CITY OF FREDONIA 69KV'	9.173	-0.00942	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.12056	26
WERE	'CITY OF WINFIELD 69KV'	12.038	-0.0074	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.11854	26
SWPA	'EUFAULA 138KV'	9.000004	-0.00602	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.11716	26
SWPA	'EUFAULA 161KV'	12.4	-0.00602	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.11716	26
KACP	'GARDNER 161KV'	11	-0.00964	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.12078	26
WERE	'GETTY 69KV'	35	-0.00753	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.11867	26
WERE	'GILL ENERGY CENTER 138KV'	49	-0.00741	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.11855	26
SWPA	'KEYSTONE DAM 161KV'	50	-0.00741	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.11855	26
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	KACP	'MONTROSE 161KV'	353.3117	-0.04236	-0.11924	26
SWPA	'TRUMAN 161KV'	78.00002	-0.02445	INDN	'SUB H 69KV'	29.07014	0.09362	-0.11807	26
SWPA	'WEBBERS FALLS 161KV'	30	-0.00626	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.1174	26
SWPA	'BROKEN BOW 138KV'	16.6	-0.00464	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.11578	27
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.00181	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.11295	27
SWPA	'DENISON 138KV'	10.59999	-0.00566	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.1168	27
WERE	'EMPORIA 345KV'	828	-0.00574	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.11688	27
SWPA	'GREERS FERRY 161KV'	16.6	-0.003	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.11414	27
SWPA	'INDEPENDENCE 161KV'	13	-0.00267	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.11381	27
WERE	'LAWRENCE ENERGY CENTER 230KV'	43.27051	-0.00315	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.11429	27
KACP	'MARSHALL 161KV'	54.1	-0.02279	INDN	'SUB H 69KV'	29.07014	0.09362	-0.11641	27
SWPA	'OZARK 161KV'	64.90001	-0.00477	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.11591	27
SWPA	'ROBERT S. KERR 161KV'	74.5	-0.00536	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.1165	27
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.0018	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.11294	27
MIPU	'TWA 161KV'	32.1	0.03873	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.11615	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	21.02441	-0.00089	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.11203	28
WERE	'HUTCHINSON ENERGY CENTER 115KV'	141	-0.00078	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.11192	28
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	-0.00078	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.11192	28
WERE	'JEFFREY ENERGY CENTER 230KV'	24	-0.00078	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.11192	28
WERE	'JEFFREY ENERGY CENTER 345KV'	42	-0.00023	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.11137	28
SWPA	'KENNETT 69KV'	21.8	-0.00094	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.11208	28
SWPA	'MALDEN 69KV'	10	-0.0007	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.11184	28
SWPA	'PARAGOULD 69KV'	12	-0.00133	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.11247	28
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	MIPU	'SOUTH HARPER 161KV'	252.4078	-0.04991	-0.11169	28
WERE	'CITY OF IOLA 69KV'	13.361	-0.01186	INDN	'SUB H 69KV'	29.07014	0.09362	-0.10548	29
WERE	'HOLTON 115KV'	19.8	0.00284	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.1083	29
WERE	'SOUTH SENECA 115KV'	16.7	0.00497	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.10617	29
SWPA	'BEAVER 161KV'	27.49995	-0.00929	INDN	'SUB H 69KV'	29.07014	0.09362	-0.10291	30
KACP	'BULL CREEK 161KV'	65	-0.00839	INDN	'SUB H 69KV'	29.07014	0.09362	-0.10201	30
WERE	'CHANUTE 69KV'	31.077	-0.01078	INDN	'SUB H 69KV'	29.07014	0.09362	-0.1044	30
WERE	'CITY OF BURLINGTON 69KV'	21.247	-0.00942	INDN	'SUB H 69KV'	29.07014	0.09362	-0.10304	30
KACP	'GARDNER 161KV'	11	-0.00964	INDN	'SUB H 69KV'	29.07014	0.09362	-0.10326	30
MIPU	'LAKE ROAD 161KV'	91	0.0288	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.10393	30
KACP	'MARSHALL 161KV'	54.1	-0.02279	INDN	'MOCT 69KV'	30.8	0.07925	-0.10204	30
KACP	'NORTHEAST 13KV'	70.17432	0.0283	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.10443	30
KACP	'NORTHEAST 161KV'	96	0.0283	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.10443	30
SWPA	'TRUMAN 161KV'	78.00002	-0.02445	INDN	'MOCT 69KV'	30.8	0.07925	-0.1037	30
SWPA	'BULL SHOALS 161KV'	110.9	-0.00623	INDN	'SUB H 69KV'	29.07014	0.09362	-0.09985	31
WERE	'CITY OF WINFIELD 69KV'	12.038	-0.0074	INDN	'SUB H 69KV'	29.07014	0.09362	-0.10102	31
SWPA	'DENISON 138KV'	10.59999	-0.00566	INDN	'SUB H 69KV'	29.07014	0.09362	-0.09928	31
WERE	'EMPORIA 345KV'	828	-0.00574	INDN	'SUB H 69KV'	29.07014	0.09362	-0.09936	31
SWPA	'EUFAULA 161KV'	12.4	-0.00602	INDN	'SUB H 69KV'	29.07014	0.09362	-0.09964	31
WERE	'GETTY 69KV'	35	-0.00753	INDN	'SUB H 69KV'	29.07014	0.09362	-0.10115	31
WERE	'GILL ENERGY CENTER 138KV'	49	-0.00741	INDN	'SUB H 69KV'	29.07014	0.09362	-0.10103	31
SWPA	'KEYSTONE DAM 161KV'	50	-0.00741	INDN	'SUB H 69KV'	29.07014	0.09362	-0.10103	31
SWPA	'OZARK 161KV'	64.90001	-0.00477	INDN	'SUB H 69KV'	29.07014	0.09362	-0.09839	31
SWPA	'ROBERT S. KERR 161KV'	74.5	-0.00536	INDN	'SUB H 69KV'	29.07014	0.09362	-0.09898	31
SWPA	'WEBBERS FALLS 161KV'	30	-0.00626	INDN	'SUB H 69KV'	29.07014	0.09362	-0.09988	31
SWPA	'BROKEN BOW 138KV'	16.6	-0.00464	INDN	'SUB H 69KV'	29.07014	0.09362	-0.09826	32
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.00181	INDN	'SUB H 69KV'	29.07014	0.09362	-0.09543	32
SWPA	'GREERS FERRY 161KV'	16.6	-0.003	INDN	'SUB H 69KV'	29.07014	0.09362	-0.09662	32
SWPA	'INDEPENDENCE 161KV'	13	-0.00267	INDN	'SUB H 69KV'	29.07014	0.09362	-0.09629	32
WERE	'LAWRENCE ENERGY CENTER 230KV'	43.27051	-0.00315	INDN	'SUB H 69KV'	29.07014	0.09362	-0.09677	32
MIPU	'NEVADA 69KV'	20.3	-0.06382	KACP	'HAWTHORN 161KV'	769	0.03173	-0.09555	32

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

WERE	TECUMSEH ENERGY CENTER 69KV'	41	-0.0018	INDN	'SUB H 69KV'	29.07014	0.09362	-0.09542	32
WERE	'BPU - CITY OF MCPHERSON 115KV'	21.02441	-0.00089	INDN	'SUB H 69KV'	29.07014	0.09362	-0.09451	33
WERE	'HUTCHINSON ENERGY CENTER 115KV'	141	-0.00078	INDN	'SUB H 69KV'	29.07014	0.09362	-0.0944	33
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	-0.00078	INDN	'SUB H 69KV'	29.07014	0.09362	-0.0944	33
WERE	'JEFFREY ENERGY CENTER 230KV'	24	-0.00078	INDN	'SUB H 69KV'	29.07014	0.09362	-0.0944	33
WERE	'JEFFREY ENERGY CENTER 345KV'	42	-0.00023	INDN	'SUB H 69KV'	29.07014	0.09362	-0.09385	33
SWPA	'KENNETT 69KV'	21.8	-0.00094	INDN	'SUB H 69KV'	29.07014	0.09362	-0.09456	33
MIPU	'NEVADA 69KV'	20.3	-0.06382	MIPU	'LAKE ROAD 161KV'	35	0.0288	-0.09262	33
MIPU	'NEVADA 69KV'	20.3	-0.06382	MIPU	'LAKE ROAD 34KV'	92	0.0288	-0.09262	33
SWPA	'PARAGOULD 69KV'	12	-0.00133	INDN	'SUB H 69KV'	29.07014	0.09362	-0.09495	33
MIPU	'TWA 161KV'	32.1	0.03873	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.094	33
WERE	'CHANUTE 69KV'	31.077	-0.01078	INDN	'MOCT 69KV'	30.8	0.07925	-0.09003	34
WERE	'CITY OF IOLA 69KV'	13.361	-0.01186	INDN	'MOCT 69KV'	30.8	0.07925	-0.09111	34
WERE	'HOLTON 115KV'	19.8	0.00284	INDN	'SUB H 69KV'	29.07014	0.09362	-0.09078	34
MIPU	'NEVADA 69KV'	20.3	-0.06382	KACP	'NORTHEAST 13KV'	98.82568	0.0283	-0.09212	34
MIPU	'NEVADA 69KV'	20.3	-0.06382	KACP	'NORTHEAST 161KV'	73	0.0283	-0.09212	34
SWPA	'BEAVER 161KV'	27.49995	-0.00929	INDN	'MOCT 69KV'	30.8	0.07925	-0.08854	35
KACP	'BULL CREEK 161KV'	65	-0.00839	INDN	'MOCT 69KV'	30.8	0.07925	-0.08764	35
WERE	'CITY OF BURLINGTON 69KV'	21.247	-0.00942	INDN	'MOCT 69KV'	30.8	0.07925	-0.08867	35
WERE	'SOUTH SENECA 115KV'	16.7	0.00497	INDN	'SUB H 69KV'	29.07014	0.09362	-0.08865	35
SWPA	'BULL SHOALS 161KV'	110.9	-0.00623	INDN	'MOCT 69KV'	30.8	0.07925	-0.08548	36
WERE	'CITY OF WINFIELD 69KV'	12.038	-0.0074	INDN	'MOCT 69KV'	30.8	0.07925	-0.08665	36
WERE	'EMPORIA 345KV'	828	-0.00574	INDN	'MOCT 69KV'	30.8	0.07925	-0.08499	36
SWPA	'EUFULA 161KV'	12.4	-0.00602	INDN	'MOCT 69KV'	30.8	0.07925	-0.08527	36
WERE	'GETTY 69KV'	35	-0.00753	INDN	'MOCT 69KV'	30.8	0.07925	-0.08678	36
WERE	'GILL ENERGY CENTER 138KV'	49	-0.00741	INDN	'MOCT 69KV'	30.8	0.07925	-0.08666	36
SWPA	'KEYSTONE DAM 161KV'	50	-0.00741	INDN	'MOCT 69KV'	30.8	0.07925	-0.08666	36
SWPA	'WEBBERS FALLS 161KV'	30	-0.00626	INDN	'MOCT 69KV'	30.8	0.07925	-0.08551	36
SWPA	'BROKEN BOW 138KV'	16.6	-0.00464	INDN	'MOCT 69KV'	30.8	0.07925	-0.08389	37
KACP	'NORTHEAST 13KV'	70.17432	0.0283	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.08284	37
KACP	'NORTHEAST 161KV'	96	0.0283	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.08284	37
SWPA	'OZARK 161KV'	64.90001	-0.00477	INDN	'MOCT 69KV'	30.8	0.07925	-0.08402	37
SWPA	'ROBERT S. KERR 161KV'	74.5	-0.00536	INDN	'MOCT 69KV'	30.8	0.07925	-0.08461	37
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.00181	INDN	'MOCT 69KV'	30.8	0.07925	-0.08106	38
SWPA	'GREERS FERRY 161KV'	16.6	-0.003	INDN	'MOCT 69KV'	30.8	0.07925	-0.08225	38
SWPA	'INDEPENDENCE 161KV'	13	-0.00267	INDN	'MOCT 69KV'	30.8	0.07925	-0.08192	38
MIPU	'LAKE ROAD 161KV'	91	0.0288	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.08234	38
WERE	'LAWRENCE ENERGY CENTER 230KV'	43.27051	-0.00315	INDN	'MOCT 69KV'	30.8	0.07925	-0.0824	38
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	KACP	'HAWTHORN 161KV'	769	0.03173	-0.08164	38
WERE	TECUMSEH ENERGY CENTER 69KV'	41	-0.0018	INDN	'MOCT 69KV'	30.8	0.07925	-0.08105	38
WERE	'BPU - CITY OF MCPHERSON 115KV'	21.02441	-0.00089	INDN	'MOCT 69KV'	30.8	0.07925	-0.08014	39
WERE	'HUTCHINSON ENERGY CENTER 115KV'	141	-0.00078	INDN	'MOCT 69KV'	30.8	0.07925	-0.08003	39
WERE	'JEFFREY ENERGY CENTER 230KV'	24	-0.00078	INDN	'MOCT 69KV'	30.8	0.07925	-0.08003	39
WERE	'JEFFREY ENERGY CENTER 345KV'	42	-0.00023	INDN	'MOCT 69KV'	30.8	0.07925	-0.07948	39
SWPA	'KENNETT 69KV'	21.8	-0.00094	INDN	'MOCT 69KV'	30.8	0.07925	-0.08019	39
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	MIPU	'LAKE ROAD 161KV'	35	0.0288	-0.07871	39
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	MIPU	'LAKE ROAD 34KV'	92	0.0288	-0.07871	39
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	KACP	'NORTHEAST 13KV'	98.82568	0.0283	-0.07821	40
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	KACP	'NORTHEAST 161KV'	73	0.0283	-0.07821	40
WERE	'HOLTON 115KV'	19.8	0.00284	INDN	'MOCT 69KV'	30.8	0.07925	-0.07641	41
MIPU	'NEVADA 69KV'	20.3	-0.06382	KACP	'IATAN 345KV'	396	0.01163	-0.07545	41
KACP	'MONTROSE 161KV'	27.68829	-0.04236	KACP	'HAWTHORN 161KV'	769	0.03173	-0.07409	42
WERE	'SOUTH SENECA 115KV'	16.7	0.00497	INDN	'MOCT 69KV'	30.8	0.07925	-0.07428	42
MIPU	'TWA 161KV'	32.1	0.03873	INDN	'BLUE VALLEY 69KV'	85.08216	0.11114	-0.07241	43
KACP	'MONTROSE 161KV'	27.68829	-0.04236	MIPU	'LAKE ROAD 161KV'	35	0.0288	-0.07116	44
KACP	'MONTROSE 161KV'	27.68829	-0.04236	MIPU	'LAKE ROAD 34KV'	92	0.0288	-0.07116	44
KACP	'MONTROSE 161KV'	27.68829	-0.04236	KACP	'NORTHEAST 13KV'	98.82568	0.0283	-0.07066	44
KACP	'MONTROSE 161KV'	27.68829	-0.04236	KACP	'NORTHEAST 161KV'	73	0.0283	-0.07066	44
MIPU	'NEVADA 69KV'	20.3	-0.06382	SWPA	'CLARENCE CANNON DAM 69KV'	39.2	0.00511	-0.06893	45
MIPU	'RALPH GREEN 69KV'	73.7	-0.1616	KACP	'CITY OF HIGGINSVILLE 69KV'	35	-0.09342	-0.06818	45
KACP	'NORTHEAST 13KV'	70.17432	0.0283	INDN	'SUB H 69KV'	29.07014	0.09362	-0.06532	47
KACP	'NORTHEAST 161KV'	96	0.0283	INDN	'SUB H 69KV'	29.07014	0.09362	-0.06532	47
MIPU	'LAKE ROAD 161KV'	91	0.0288	INDN	'SUB H 69KV'	29.07014	0.09362	-0.06482	48
MIPU	'NEVADA 69KV'	20.3	-0.06382	WERE	'BPU - CITY OF MCPHERSON 115KV'	152.9756	-0.00089	-0.06293	49
MIPU	'NEVADA 69KV'	20.3	-0.06382	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	-0.00078	-0.06304	49
MIPU	'NEVADA 69KV'	20.3	-0.06382	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	-0.00078	-0.06304	49
MIPU	'NEVADA 69KV'	20.3	-0.06382	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00078	-0.06304	49
MIPU	'NEVADA 69KV'	20.3	-0.06382	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00023	-0.06359	49
MIPU	'NEVADA 69KV'	20.3	-0.06382	SWPA	'SIKESTON 161KV'	235	-0.00024	-0.06358	49
MIPU	'NEVADA 69KV'	20.3	-0.06382	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00157	-0.06225	50
MIPU	'NEVADA 69KV'	20.3	-0.06382	SWPA	'JONESBORO 161KV'	63	-0.00162	-0.0622	50
MIPU	'NEVADA 69KV'	20.3	-0.06382	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00192	-0.0619	50
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	KACP	'IATAN 345KV'	396	0.01163	-0.06154	50
MIPU	'NEVADA 69KV'	20.3	-0.06382	SWPA	'GREERS FERRY 161KV'	93.4	-0.003	-0.06082	51
MIPU	'NEVADA 69KV'	20.3	-0.06382	WERE	'LAWRENCE ENERGY CENTER 230KV'	225.7295	-0.00315	-0.06067	51
INDN	'SUB I 69KV'	38	0.09391	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.06097	51
MIPU	'NEVADA 69KV'	20.3	-0.06382	SWPA	'BROKEN BOW 138KV'	93.4	-0.00464	-0.05918	52
MIPU	'NEVADA 69KV'	20.3	-0.06382	SWPA	'OZARK 161KV'	130.6	-0.00477	-0.05905	52
MIPU	'NEVADA 69KV'	20.3	-0.06382	SWPA	'DENISON 138KV'	59.40001	-0.00566	-0.05816	53
MIPU	'NEVADA 69KV'	20.3	-0.06382	SWPA	'ROBERT S. KERR 161KV'	314.2	-0.00536	-0.05846	53
MIPU	'NEVADA 69KV'	20.3	-0.06382	SWPA	'BULL SHOALS 161KV'	278.7	-0.00623	-0.05759	54
MIPU	'NEVADA 69KV'	20.3	-0.06382	SWPA	'EUFULA 138KV'	51	-0.00602	-0.0578	54
MIPU	'NEVADA 69KV'	20.3	-0.06382	SWPA	'EUFULA 161KV'	69.6	-0.00602	-0.0578	54
MIPU	'NEVADA 69KV'	20.3	-0.06382	SWPA	'WEBBERS FALLS 161KV'	39	-0.00626	-0.05756	54
MIPU	'NEVADA 69KV'	20.3	-0.06382	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00783	-0.05619	55
MIPU	'NEVADA 69KV'	20.3	-0.06382	WERE	'CITY OF WINFIELD 69KV'	27.962	-0.0074	-0.05642	55
MIPU	'NEVADA 69KV'	20.3	-0.06382	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.00751	-0.05631	55
MIPU	'NEVADA 69KV'	20.3	-0.06382	WERE	'GILL ENERGY CENTER 138KV'	171	-0.00741	-0.05641	55
MIPU	'NEVADA 69KV'	20.3	-0.06382	WERE	'GILL ENERGY CENTER 69KV'	75	-0.00747	-0.05635	55
MIPU	'NEVADA 69KV'	20.3	-0.06382	SWPA	'KEYSTONE DAM 161KV'	150.2	-0.00741	-0.05641	55
SWPA	'TRUMAN 161KV'	78.00002	-0.02445	KACP	'HAWTHORN 161KV'	769	0.03173	-0.05618	55
MIPU	'NEVADA 69KV'	20.3	-0.06382	KACP	'BULL CREEK 161KV'	308	-0.00839	-0.05543	56
INDN	'SOUTH HARPER 161KV'	62.59215	-0.04991	SWPA	'CLARENCE CANNON DAM 69KV'	39.2	0.00511	-0.05502	56
MIPU	'SUBSTATION J 69KV'	30	0.09996	MIPU	'SIBLEY 161KV'	232.8084	0.15488	-0.05492	56
MIPU	'TWA 161KV'	32.1	0.03873	INDN	'SUB H 69KV'	29.07014	0.09362	-0.05489	56
KACP	'MARSHALL 161KV'	54.1	-0.02279	KACP	'HAWTHORN 161KV'	769	0.03173	-0.05452	57
KACP	'MONTROSE 161KV'	27.68829	-0.04236	KACP	'IATAN 345KV'	396	0.01163	-0.05399	57
MIPU	'NEVADA 69KV'	20.3	-0.06382	SWPA	'BEAVER 161KV'	138.1001	-0.00929	-0.05453	57
MIPU	'NEVADA 69KV'	20.3	-0.06382	WERE	'CITY OF BURLINGTON 69KV'	34.753	-0.00942	-0.0544	57
MIPU	'NEVADA 69KV'	20.3	-0.06382	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	-0.00942	-0.0544	57
MIPU	'NEVADA 69KV'	20.3	-0.06382	WERE	'CHANUTE 69KV'	56.723	-0.01078	-0.05304	58
MIPU	'NEVADA 69KV'	20.3	-0.06382	WERE	'CITY OF ERIE 69KV'	23.27	-0.01078	-0.05304	58
SWPA	'TRUMAN 161KV'	78.00002	-0.02445	MIPU	'LAKE ROAD 161KV'	35	0.0288	-0.05325	58

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

SWPA	'TRUMAN 161KV'	78.00002	-0.02445	MIPU	'LAKE ROAD 34KV'	92	0.0288	-0.05325	58
MIPU	'NEVADA 69KV'	20.3	-0.06382	KACP	'LACYGNE UNIT 345KV'	958	-0.01107	-0.05275	59
SWPA	'TRUMAN 161KV'	78.00002	-0.02445	KACP	'NORTHEAST 13KV'	98.82568	0.0283	-0.05275	59
SWPA	'TRUMAN 161KV'	78.00002	-0.02445	KACP	'NORTHEAST 161KV'	73	0.0283	-0.05275	59
KACP	'MARSHALL 161KV'	54.1	-0.02279	MIPU	'LAKE ROAD 161KV'	35	0.0288	-0.05159	60
KACP	'MARSHALL 161KV'	54.1	-0.02279	MIPU	'LAKE ROAD 34KV'	92	0.0288	-0.05159	60
MIPU	'NEVADA 69KV'	20.3	-0.06382	WERE	'CITY OF IOLA 69KV'	24.267	-0.01186	-0.05196	60
MIPU	'LAKE ROAD 161KV'	91	0.0288	INDN	'MOCT 69KV'	30.8	0.07925	-0.05045	61
KACP	'MARSHALL 161KV'	54.1	-0.02279	KACP	'NORTHEAST 13KV'	98.82568	0.0283	-0.05109	61
KACP	'MARSHALL 161KV'	54.1	-0.02279	KACP	'NORTHEAST 161KV'	73	0.0283	-0.05109	61
KACP	'NORTHEAST 13KV'	70.17432	0.0283	INDN	'MOCT 69KV'	30.8	0.07925	-0.05095	61
KACP	'NORTHEAST 161KV'	96	0.0283	INDN	'MOCT 69KV'	30.8	0.07925	-0.05095	61
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00023	-0.04968	62
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	SWPA	'SIKESTON 161KV'	235	-0.00024	-0.04967	62
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	WERE	'BPU - CITY OF MCPHERSON 115KV'	152.9756	-0.00089	-0.04902	63
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	-0.00078	-0.04913	63
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	-0.00078	-0.04913	63
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00078	-0.04913	63
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00157	-0.04834	64
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	SWPA	'JONESBORO 161KV'	63	-0.00162	-0.04829	64
KACP	'MONROSE 161KV'	27.68829	-0.04236	SWPA	'CLARENCE CANNON DAM 69KV'	39.2	0.00511	-0.04747	65
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00192	-0.04799	65
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	SWPA	'GREERS FERRY 161KV'	93.4	-0.003	-0.04691	66
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	WERE	'LAWRENCE ENERGY CENTER 230KV'	225.7295	-0.00315	-0.04676	66
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	SWPA	'BROKEN BOW 138KV'	93.4	-0.00464	-0.04527	68
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	SWPA	'OZARK 161KV'	130.6	-0.00477	-0.04514	69
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	SWPA	'DENISON 138KV'	59.40001	-0.00566	-0.04425	70
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	SWPA	'ROBERT S. KERR 161KV'	314.2	-0.00536	-0.04455	70
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	SWPA	'BULL SHOALS 161KV'	278.7	-0.00623	-0.04368	71
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	SWPA	'EUFAULA 138KV'	51	-0.00602	-0.04389	71
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	SWPA	'EUFAULA 161KV'	69.6	-0.00602	-0.04389	71
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	SWPA	'WEBBERS FALLS 161KV'	39	-0.00626	-0.04365	71
WERE	'CHANUTE 69KV'	31.077	-0.01078	KACP	'HAWTHORN 161KV'	769	0.03173	-0.04251	73
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	WERE	'CITY OF WINFIELD 69KV'	27.962	-0.0074	-0.04251	73
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.00751	-0.0424	73
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	WERE	'GILL ENERGY CENTER 138KV'	171	-0.00741	-0.0425	73
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	WERE	'GILL ENERGY CENTER 69KV'	75	-0.00747	-0.04244	73
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	SWPA	'KEYSTONE DAM 161KV'	150.2	-0.00741	-0.0425	73
KACP	'MONROSE 161KV'	27.68829	-0.04236	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00023	-0.04213	74
KACP	'MONROSE 161KV'	27.68829	-0.04236	SWPA	'SIKESTON 161KV'	235	-0.00024	-0.04212	74
KACP	'MONROSE 161KV'	27.68829	-0.04236	WERE	'BPU - CITY OF MCPHERSON 115KV'	152.9756	-0.00089	-0.04147	75
KACP	'MONROSE 161KV'	27.68829	-0.04236	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	-0.00078	-0.04158	75
KACP	'MONROSE 161KV'	27.68829	-0.04236	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	-0.00078	-0.04158	75
KACP	'MONROSE 161KV'	27.68829	-0.04236	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00078	-0.04158	75
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	KACP	'BULL CREEK 161KV'	308	-0.00839	-0.04152	75
SWPA	'BEAVER 161KV'	27.49995	-0.00929	KACP	'HAWTHORN 161KV'	769	0.03173	-0.04102	76
KACP	'MONROSE 161KV'	27.68829	-0.04236	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00157	-0.04079	76
KACP	'MONROSE 161KV'	27.68829	-0.04236	SWPA	'JONESBORO 161KV'	63	-0.00162	-0.04074	76
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	SWPA	'BEAVER 161KV'	138.1001	-0.00929	-0.04062	76
MIPU	'TWA 161KV'	32.1	0.03873	INDN	'MOCT 69KV'	30.8	0.07925	-0.04052	76
KACP	'BULL CREEK 161KV'	65	-0.00839	KACP	'HAWTHORN 161KV'	769	0.03173	-0.04012	77
KACP	'MONROSE 161KV'	27.68829	-0.04236	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00192	-0.04044	77
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	WERE	'CITY OF BURLINGTON 69KV'	34.753	-0.00942	-0.04049	77
WERE	'CHANUTE 69KV'	31.077	-0.01078	MIPU	'LAKE ROAD 161KV'	35	0.0288	-0.03958	78
WERE	'CHANUTE 69KV'	31.077	-0.01078	MIPU	'LAKE ROAD 34KV'	92	0.0288	-0.03958	78
WERE	'CHANUTE 69KV'	31.077	-0.01078	KACP	'NORTHEAST 13KV'	98.82568	0.0283	-0.03908	79
WERE	'CHANUTE 69KV'	31.077	-0.01078	KACP	'NORTHEAST 161KV'	73	0.0283	-0.03908	79
WERE	'GETTY 69KV'	35	-0.00753	KACP	'HAWTHORN 161KV'	769	0.03173	-0.03926	79
WERE	'GILL ENERGY CENTER 138KV'	49	-0.00741	KACP	'HAWTHORN 161KV'	769	0.03173	-0.03914	79
SWPA	'KEYSTONE DAM 161KV'	50	-0.00741	KACP	'HAWTHORN 161KV'	769	0.03173	-0.03914	79
KACP	'MONROSE 161KV'	27.68829	-0.04236	SWPA	'GREERS FERRY 161KV'	93.4	-0.003	-0.03936	79
KACP	'MONROSE 161KV'	27.68829	-0.04236	WERE	'LAWRENCE ENERGY CENTER 230KV'	225.7295	-0.00315	-0.03921	79
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	WERE	'CHANUTE 69KV'	56.723	-0.01078	-0.03913	79
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	KACP	'LACYGNE UNIT 345KV'	958	-0.01107	-0.03884	80
INDN	'SUB I 69KV'	38	0.09391	MIPU	'SIBLEY 69KV'	45.99999	0.13273	-0.03882	80
SWPA	'BEAVER 161KV'	27.49995	-0.00929	MIPU	'LAKE ROAD 161KV'	35	0.0288	-0.03809	81
SWPA	'BEAVER 161KV'	27.49995	-0.00929	MIPU	'LAKE ROAD 34KV'	92	0.0288	-0.03809	81
SWPA	'BEAVER 161KV'	27.49995	-0.00929	KACP	'NORTHEAST 13KV'	98.82568	0.0283	-0.03759	82
SWPA	'BEAVER 161KV'	27.49995	-0.00929	KACP	'NORTHEAST 161KV'	73	0.0283	-0.03759	82
SWPA	'BULL SHOALS 161KV'	110.9	-0.00623	KACP	'HAWTHORN 161KV'	769	0.03173	-0.03796	82
KACP	'MONROSE 161KV'	27.68829	-0.04236	SWPA	'BROKEN BOW 138KV'	93.4	-0.00464	-0.03772	82
KACP	'MONROSE 161KV'	27.68829	-0.04236	SWPA	'OZARK 161KV'	130.6	-0.00477	-0.03759	82
SWPA	'WEBBERS FALLS 161KV'	30	-0.00626	KACP	'HAWTHORN 161KV'	769	0.03173	-0.03799	82
KACP	'BULL CREEK 161KV'	65	-0.00839	MIPU	'LAKE ROAD 161KV'	35	0.0288	-0.03719	83
KACP	'BULL CREEK 161KV'	65	-0.00839	MIPU	'LAKE ROAD 34KV'	92	0.0288	-0.03719	83
WERE	'EMPORIA 345KV'	828	-0.00574	KACP	'HAWTHORN 161KV'	769	0.03173	-0.03747	83
KACP	'BULL CREEK 161KV'	65	-0.00839	KACP	'NORTHEAST 13KV'	98.82568	0.0283	-0.03669	84
KACP	'BULL CREEK 161KV'	65	-0.00839	KACP	'NORTHEAST 161KV'	73	0.0283	-0.03669	84
SWPA	'ROBERT S. KERR 161KV'	74.5	-0.00536	KACP	'HAWTHORN 161KV'	769	0.03173	-0.03709	84
WERE	'GETTY 69KV'	35	-0.00753	MIPU	'LAKE ROAD 161KV'	35	0.0288	-0.03633	85
WERE	'GETTY 69KV'	35	-0.00753	MIPU	'LAKE ROAD 34KV'	92	0.0288	-0.03633	85
SWPA	'OZARK 161KV'	64.90001	-0.00477	KACP	'HAWTHORN 161KV'	769	0.03173	-0.03685	85
WERE	'GETTY 69KV'	35	-0.00753	KACP	'NORTHEAST 13KV'	98.82568	0.0283	-0.03583	86
WERE	'GETTY 69KV'	35	-0.00753	KACP	'NORTHEAST 161KV'	73	0.0283	-0.03583	86
WERE	'GILL ENERGY CENTER 138KV'	49	-0.00741	MIPU	'LAKE ROAD 161KV'	35	0.0288	-0.03621	86
WERE	'GILL ENERGY CENTER 138KV'	49	-0.00741	MIPU	'LAKE ROAD 34KV'	92	0.0288	-0.03621	86
SWPA	'KEYSTONE DAM 161KV'	50	-0.00741	MIPU	'LAKE ROAD 161KV'	35	0.0288	-0.03621	86
SWPA	'KEYSTONE DAM 161KV'	50	-0.00741	MIPU	'LAKE ROAD 34KV'	92	0.0288	-0.03621	86
SWPA	'TRUMAN 161KV'	78.00002	-0.02445	KACP	'IATAN 345KV'	396	0.01163	-0.03608	86
WERE	'GILL ENERGY CENTER 138KV'	49	-0.00741	KACP	'NORTHEAST 13KV'	98.82568	0.0283	-0.03571	87
WERE	'GILL ENERGY CENTER 138KV'	49	-0.00741	KACP	'NORTHEAST 161KV'	73	0.0283	-0.03571	87
SWPA	'KEYSTONE DAM 161KV'	50	-0.00741	KACP	'NORTHEAST 13KV'	98.82568	0.0283	-0.03571	87
SWPA	'KEYSTONE DAM 161KV'	50	-0.00741	KACP	'NORTHEAST 161KV'	73	0.0283	-0.03571	87
MIPU	'SOUTH HARPER 161KV'	62.59215	-0.04991	SWPA	'CARTHAGE 69KV'	30	-0.01435	-0.03556	87
SWPA	'BULL SHOALS 161KV'	110.9	-0.00623	MIPU	'LAKE ROAD 161KV'	35	0.0288	-0.03503	88
SWPA	'BULL SHOALS 161KV'	110.9	-0.00623	MIPU	'LAKE ROAD 34KV'	92	0.0288	-0.03503	88
SWPA	'WEBBERS FALLS 161KV'	30	-0.00626	MIPU	'LAKE ROAD 161KV'	35	0.0288	-0.03506	88
SWPA	'WEBBERS FALLS 161KV'	30	-0.00626	MIPU	'LAKE ROAD 34KV'	92	0.0288	-0.03506	88
WERE	'LAWRENCE ENERGY CENTER 230KV'	43.27051	-0.00315	KACP	'HAWTHORN 161KV'	769	0.03173	-0.03488	89
SWPA	'BULL SHOALS 161KV'	110.9	-0.00623	KACP	'NORTHEAST 13KV'	98.82568	0.0283	-0.03453	90
SWPA	'BULL SHOALS 161KV'	110.9	-0.00623	KACP	'NORTHEAST 161KV'	73	0.0283	-0.03453	90
WERE	'EMPORIA 345KV'	828	-0.00574	MIPU	'LAKE ROAD 161KV'	35	0.0288	-0.03454	90
WERE	'EMPORIA 345KV'	828	-0.00574	MIPU	'LAKE ROAD 34KV'	92	0.0288	-0.03454	90

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

KACP	'MARSHALL 161KV'	54.1	-0.02279	KACP	'IATAN 345KV'	396	0.01163	-0.03442	90
SWPA	'WEBBERS FALLS 161KV'	30	-0.00626	KACP	'NORTHEAST 13KV'	98.82568	0.0283	-0.03456	90
SWPA	'WEBBERS FALLS 161KV'	30	-0.00626	KACP	'NORTHEAST 161KV'	73	0.0283	-0.03456	90
WERE	'EMPORIA 345KV'	828	-0.00574	KACP	'NORTHEAST 13KV'	98.82568	0.0283	-0.03404	91
WERE	'EMPORIA 345KV'	828	-0.00574	KACP	'NORTHEAST 161KV'	73	0.0283	-0.03404	91
SWPA	'ROBERT S. KERR 161KV'	74.5	-0.00536	MIPU	'LAKE ROAD 161KV'	35	0.0288	-0.03416	91
SWPA	'ROBERT S. KERR 161KV'	74.5	-0.00536	MIPU	'LAKE ROAD 34KV'	92	0.0288	-0.03416	91
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.00181	KACP	'HAWTHORN 161KV'	769	0.03173	-0.03354	92
SWPA	'OZARK 161KV'	64.90001	-0.00477	MIPU	'LAKE ROAD 161KV'	35	0.0288	-0.03357	92
SWPA	'OZARK 161KV'	64.90001	-0.00477	MIPU	'LAKE ROAD 34KV'	92	0.0288	-0.03357	92
SWPA	'ROBERT S. KERR 161KV'	74.5	-0.00536	KACP	'NORTHEAST 13KV'	98.82568	0.0283	-0.03366	92
SWPA	'ROBERT S. KERR 161KV'	74.5	-0.00536	KACP	'NORTHEAST 161KV'	73	0.0283	-0.03366	92
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.0018	KACP	'HAWTHORN 161KV'	769	0.03173	-0.03353	92
SWPA	'OZARK 161KV'	64.90001	-0.00477	KACP	'NORTHEAST 13KV'	98.82568	0.0283	-0.03307	94
SWPA	'OZARK 161KV'	64.90001	-0.00477	KACP	'NORTHEAST 161KV'	73	0.0283	-0.03307	94
WERE	'HUTCHINSON ENERGY CENTER 115KV'	141	-0.00078	KACP	'HAWTHORN 161KV'	769	0.03173	-0.03251	95
WERE	'JEFFREY ENERGY CENTER 345KV'	42	-0.00023	KACP	'HAWTHORN 161KV'	769	0.03173	-0.03196	97
WERE	'LAWRENCE ENERGY CENTER 230KV'	43.27051	-0.00315	MIPU	'LAKE ROAD 161KV'	35	0.0288	-0.03195	97
WERE	'LAWRENCE ENERGY CENTER 230KV'	43.27051	-0.00315	MIPU	'LAKE ROAD 34KV'	92	0.0288	-0.03195	97
WERE	'LAWRENCE ENERGY CENTER 230KV'	43.27051	-0.00315	KACP	'NORTHEAST 13KV'	98.82568	0.0283	-0.03145	99
WERE	'LAWRENCE ENERGY CENTER 230KV'	43.27051	-0.00315	KACP	'NORTHEAST 161KV'	73	0.0283	-0.03145	99
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.00181	MIPU	'LAKE ROAD 161KV'	35	0.0288	-0.03061	101
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.00181	MIPU	'LAKE ROAD 34KV'	92	0.0288	-0.03061	101
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.0018	MIPU	'LAKE ROAD 161KV'	35	0.0288	-0.0306	101
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.0018	MIPU	'LAKE ROAD 34KV'	92	0.0288	-0.0306	101
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.00181	KACP	'NORTHEAST 13KV'	98.82568	0.0283	-0.03011	103
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.00181	KACP	'NORTHEAST 161KV'	73	0.0283	-0.03011	103
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.0018	KACP	'NORTHEAST 13KV'	98.82568	0.0283	-0.0301	103
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.0018	KACP	'NORTHEAST 161KV'	73	0.0283	-0.0301	103

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

Upgrade: BOEING - STEARMAN 138KV CKT 1 & Evans - Grant - Chisolm Rebuild and Conversion Project
 Limiting Facility: BOEING - STEARMAN 138KV CKT 1
 Direction: To->From
 Line Outage: SPP-WERE-29
 Flowgate: 57030570681SPP-WERE-292208SP
 Date Redispatch Needed: Starting 2008 6/1 - 10/1 Until EOC
 Season Flowgate Identified: 2008 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount							
1161506	17.1	17.1							
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	EMDE	'ELK RIVER 345KV'	150	0.01757	-0.19544	87
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	WERE	'CITY OF BURLINGTON 69KV'	34.061	0.00917	-0.18704	91
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	WERE	'CHANUTE 69KV'	55.637	0.00624	-0.18411	93
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	EMDE	'ASBURY 161KV'	191	0.00313	-0.181	94
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	KACP	'LACYGNE UNIT 345KV'	958	0.003	-0.18087	94
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	AEPW	'FLINT CREEK 161KV'	428	0.00118	-0.17905	95
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	EMDE	'LARUSSEL 161KV'	116	0.00226	-0.18013	95
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	AEPW	'NORTHEASTERN STATION 138KV'	500	0.00105	-0.17892	95
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	AEPW	'NORTHEASTERN STATION 345KV'	645	0.00159	-0.17946	95
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	KACP	'PAOLA COMBUSTION TURBINES 161KV'	63.0542	0.00153	-0.1794	95
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	EMDE	'RIVERTON 161KV'	88.89612	0.0027	-0.18057	95
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	EMDE	'RIVERTON 69KV'	42.51023	0.00254	-0.18041	95
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	EMDE	'STATE LINE 161KV'	503	0.00257	-0.18044	95
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	OKGE	'AES 161KV'	320	-0.00004	-0.17783	96
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	KACP	'BULL CREEK 161KV'	308	0.00058	-0.17845	96
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	KACP	'CITY OF HIGGINSVILLE 69KV'	35	0.00021	-0.17808	96
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	AEPW	'COGENTRIX 345KV'	200	0.00006	-0.17793	96
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	AEPW	'EASTMAN 138KV'	355.0058	-0.00085	-0.17702	96
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	AEPW	'FTZHUUGH 161KV'	126	0.00006	-0.17793	96
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	MIPU	'GREENWOOD 161KV'	169.9976	0.00022	-0.17809	96
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	KACP	'HAWTHORN 161KV'	769	-0.00007	-0.1778	96
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	AEPW	'KNOXLEE 138KV'	225	-0.00085	-0.17702	96
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	MIPU	'LAKE ROAD 161KV'	35	-0.00066	-0.17721	96
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	MIPU	'LAKE ROAD 34KV'	92	-0.00066	-0.17721	96
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	AEPW	'LEBROCK 345KV'	465.0004	-0.00085	-0.17702	96
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	AEPW	'LIEBERMAN 138KV'	73.99999	-0.00077	-0.1771	96
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	KACP	'MONTROSE 161KV'	355.3524	0.00038	-0.17825	96
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	OKGE	'MUSKOGEE 161KV'	166	0.0001	-0.17797	96
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	OKGE	'MUSKOGEE 345KV'	1516	-0.00005	-0.17782	96
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	KACY	'NEARMAN 161KV'	77	-0.0001	-0.17777	96
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	KACY	'NEARMAN 20KV'	220	-0.0001	-0.17777	96
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	AEPW	'OEC 345KV'	219.0044	0.00047	-0.17834	96
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	AEPW	'PIRKEY GENERATION 138KV'	490	-0.00085	-0.17702	96
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	KACY	'QUINDARO 161KV'	135.1816	-0.00009	-0.17778	96
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	KACY	'QUINDARO 69KV'	140	-0.00009	-0.17778	96
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	AEPW	'RIVERSIDE STATION 138KV'	640	0.00009	-0.17796	96
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	MIPU	'SIBLEY 161KV'	231.5886	0.00002	-0.17789	96
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	MIPU	'SIBLEY 69KV'	45.99999	0	-0.17787	96
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	MIPU	'SOUTH HARPER 161KV'	315	0.00027	-0.17814	96
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	AEPW	'TULSA POWER STATION 138KV'	186	0.00018	-0.17805	96
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	AEPW	'WILKES 138KV'	349.5782	-0.00089	-0.17698	96
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	AEPW	'WILKES 345KV'	311	-0.00087	-0.177	96
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	KACP	'IATAN 345KV'	396	-0.0001	-0.17687	97
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	AEPW	'WELLETKA 138KV'	84	-0.00113	-0.17674	97
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	AEPW	'WELSH 345KV'	1044	-0.00097	-0.1769	97
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	WEPL	'CLIFTON 115KV'	58.49084	-0.00444	-0.17343	98
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	AEPW	'COMANCHE 138KV'	160	-0.0037	-0.17417	98
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	AEPW	'COMANCHE 69KV'	63	-0.00366	-0.17421	98
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	OKGE	'HORSESHOE LAKE 138KV'	851.5	-0.00321	-0.17466	98
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00409	-0.17378	98
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00409	-0.17378	98
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	WERE	'LAWRENCE ENERGY CENTER 230KV'	233.4716	-0.00277	-0.1751	98
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	OKGE	'MCCLAIN 138KV'	478	-0.0035	-0.17437	98
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	OKGE	'MUSTANG 138KV'	365.5	-0.00359	-0.17428	98

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

WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	OKGE	'MUSTANG 69KV'	106	-0.00359	-0.17428	98
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	OKGE	'ONE OAK 345KV'	300	-0.00397	-0.1739	98
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	OKGE	'REDBUD 345KV'	250.0063	-0.00302	-0.17485	98
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	OKGE	'SEMINOLE 138KV'	482.8771	-0.00296	-0.17491	98
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	OKGE	'SEMINOLE 345KV'	996	-0.00304	-0.17483	98
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	OKGE	'SMITH COGEN 138KV'	120	-0.00355	-0.17432	98
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	OKGE	'SOONER 138KV'	505	-0.00374	-0.17413	98
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	AEPW	'SOUTHWESTERN STATION 138KV'	257	-0.00365	-0.17422	98
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	-0.00275	-0.17512	98
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	WERE	'ABELNE ENERGY CENTER 115KV'	40	-0.00601	-0.17186	99
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	OKGE	'SOONER 345KV'	513	-0.00503	-0.17284	99
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	WERE	'EMPORIA 345KV'	310	-0.00695	-0.17092	100
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	WERE	'SMOKEY HILLS 34KV'	152	-0.00741	-0.17046	100
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	WERE	'BPU - CITY OF MCPHERSON 115KV'	104.9443	-0.00802	-0.16985	101
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	-0.00887	-0.169	101
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	WERE	'HUTCHINSON ENERGY CENTER 115KV'	205	-0.00922	-0.16865	101
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	WEPL	'A. M. MULLERGEN GENERATOR 115KV'	63	-0.01139	-0.16648	103
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	-0.01659	-0.16128	106
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	WEPL	'JUDSON LARGE 115KV'	105.5424	-0.01668	-0.16119	106
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	EMDE	'ELK RIVER 345KV'	150	0.01757	-0.11832	144
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	WERE	'EVANS ENERGY CENTER 138KV'	340	-0.06403	-0.11384	150
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	WERE	'CHANUTE 69KV'	55.637	0.00624	-0.10699	160
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	EMDE	'ASBURY 161KV'	191	0.00313	-0.10388	164
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	KACP	'LACYGNE UNIT 345KV'	958	0.003	-0.10375	165
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	EMDE	'RIVERTON 161KV'	88.89612	0.0027	-0.10345	165
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	EMDE	'STATE LINE 161KV'	503	0.00257	-0.10332	165
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	EMDE	'LARUSSEL 161KV'	116	0.00226	-0.10301	166
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	AEPW	'NORTHEASTERN STATION 345KV'	645	0.00159	-0.10234	167
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	KACP	'PAOLA COMBUSTION TURBINES 161KV'	63.0542	0.00153	-0.10228	167
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	AEPW	'FLINT CREEK 161KV'	428	0.00118	-0.10193	168
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	AEPW	'NORTHEASTERN STATION 138KV'	500	0.00105	-0.1018	168
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	KACP	'BULL CREEK 161KV'	308	0.00058	-0.10133	169
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	AEPW	'COGENTRIX 345KV'	200	0.00006	-0.10081	169
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	AEPW	'FITZHUGH 161KV'	126	0.00006	-0.10081	169
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	MIPU	'GREENWOOD 161KV'	169.9976	0.00022	-0.10097	169
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	KACP	'MONTROSE 161KV'	355.3524	0.00038	-0.10113	169
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	OKGE	'MUSKOGEE 161KV'	166	0.0001	-0.10085	169
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	AEPW	'OEC 345KV'	219.0044	0.00047	-0.10122	169
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	AEPW	'RIVERSIDE STATION 138KV'	640	0.00009	-0.10094	169
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	MIPU	'SIBLEY 161KV'	231.5886	0.00002	-0.10077	169
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	MIPU	'SOUTH HARPER 161KV'	315	0.00027	-0.10102	169
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	AEPW	'TULSA POWER STATION 138KV'	186	0.00018	-0.10093	169
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	OKGE	'AES 161KV'	320	-0.00004	-0.10071	170
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	KACP	'HAWTHORN 161KV'	769	-0.00007	-0.10068	170
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	OKGE	'MUSKOGEE 345KV'	1516	-0.00005	-0.1007	170
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	KACY	'NEARMAN 161KV'	77	-0.0001	-0.10065	170
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	KACY	'NEARMAN 20KV'	220	-0.0001	-0.10065	170
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	KACY	'QUINDARO 161KV'	135.1816	-0.00009	-0.10066	170
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	KACY	'QUINDARO 69KV'	140	-0.00009	-0.10066	170
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	AEPW	'EASTMAN 138KV'	355.0058	-0.00085	-0.0999	171
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	KACP	'IATAN 345KV'	396	-0.001	-0.09975	171
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	AEPW	'KNOXLEE 138KV'	225	-0.00085	-0.0999	171
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	MIPU	'LAKE ROAD 34KV'	92	-0.00066	-0.10009	171
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	AEPW	'LEBROCK 345KV'	465.0004	-0.00085	-0.0999	171
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	AEPW	'LIEBERMAN 138KV'	73.99999	-0.00077	-0.09998	171
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	AEPW	'PIRKEY GENERATION 138KV'	490	-0.00085	-0.0999	171
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	AEPW	'WELETKA 138KV'	84	-0.00113	-0.09962	171
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	AEPW	'WELSH 345KV'	1044	-0.00097	-0.09978	171
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	AEPW	'WILKES 138KV'	349.5782	-0.00089	-0.09986	171
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	AEPW	'WILKES 345KV'	311	-0.00087	-0.09988	171
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	WERE	'LAWRENCE ENERGY CENTER 230KV'	233.4716	-0.00277	-0.09798	174
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	-0.00275	-0.098	174
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	OKGE	'HORSESHOE LAKE 138KV'	851.5	-0.00321	-0.09754	175
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	OKGE	'REDBUD 345KV'	250.0063	-0.00302	-0.09773	175
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	OKGE	'SEMINOLE 138KV'	482.8771	-0.00296	-0.09779	175
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	OKGE	'SEMINOLE 345KV'	996	-0.00304	-0.09771	175
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	AEPW	'COMANCHE 138KV'	160	-0.0037	-0.09705	176
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	AEPW	'COMANCHE 69KV'	63	-0.00366	-0.09709	176
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	OKGE	'MCCLAIN 138KV'	478	-0.0035	-0.09725	176
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	OKGE	'MUSTANG 138KV'	365.5	-0.00359	-0.09716	176
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	OKGE	'MUSTANG 69KV'	106	-0.00359	-0.09716	176
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	OKGE	'ONE OAK 345KV'	300	-0.00397	-0.09678	176
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	OKGE	'SMITH COGEN 138KV'	120	-0.00355	-0.0972	176
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	OKGE	'SOONER 138KV'	505	-0.00374	-0.09701	176
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	AEPW	'SOUTHWESTERN STATION 138KV'	257	-0.00365	-0.0971	176
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00409	-0.09666	177
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00409	-0.09666	177
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	OKGE	'SOONER 345KV'	513	-0.00503	-0.09572	178
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	WERE	'EMPORIA 345KV'	310	-0.00695	-0.0938	182
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	WERE	'SMOKEY HILLS 34KV'	152	-0.00741	-0.09334	183
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	WERE	'BPU - CITY OF MCPHERSON 115KV'	104.9443	-0.00802	-0.09273	184
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	-0.00887	-0.09188	186
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	WERE	'HUTCHINSON ENERGY CENTER 115KV'	205	-0.00922	-0.09153	187
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.10075	WEPL	'JUDSON LARGE 115KV'	105.5424	-0.01668	-0.08407	203
WERE	'EVANS ENERGY CENTER 138KV'	467	-0.06403	EMDE	'ELK RIVER 345KV'	150	0.01757	-0.0816	209
WERE	'GILL ENERGY CENTER 69KV'	118	-0.17787	WERE	'GILL ENERGY CENTER 138KV'	155	-0.10075	-0.07712	221
WERE	'EVANS ENERGY CENTER 138KV'	467	-0.06403	EMDE	'ASBURY 161KV'	191	0.00313	-0.06716	254
WERE	'EVANS ENERGY CENTER 138KV'	467	-0.06403	KACP	'LACYGNE UNIT 345KV'	958	0.003	-0.06703	255
WERE	'EVANS ENERGY CENTER 138KV'	467	-0.06403	EMDE	'RIVERTON 161KV'	88.89612	0.0027	-0.06673	256
WERE	'EVANS ENERGY CENTER 138KV'	467	-0.06403	EMDE	'STATE LINE 161KV'	503	0.00257	-0.0666	256
WERE	'EVANS ENERGY CENTER 138KV'	467	-0.06403	EMDE	'LARUSSEL 161KV'	116	0.00226	-0.06629	258
WERE	'EVANS ENERGY CENTER 138KV'	467	-0.06403	AEPW	'NORTHEASTERN STATION 345KV'	645	0.00159	-0.06562	260
WERE	'EVANS ENERGY CENTER 138KV'	467	-0.06403	AEPW	'FLINT CREEK 161KV'	428	0.00118	-0.06521	262
WERE	'EVANS ENERGY CENTER 138KV'	467	-0.06403	AEPW	'NORTHEASTERN STATION 138KV'	500	0.00105	-0.06508	262
WERE	'EVANS ENERGY CENTER 138KV'	467	-0.06403	KACP	'BULL CREEK 161KV'	308	0.00058	-0.06461	264
WERE	'EVANS ENERGY CENTER 138KV'	467	-0.06403	KACP	'MONTROSE 161KV'	355.3524	0.00038	-0.06441	264
WERE	'EVANS ENERGY CENTER 138KV'	467	-0.06403	AEPW	'OEC 345KV'	219.0044	0.00047	-0.0645	265
WERE	'EVANS ENERGY CENTER 138KV'	467	-0.06403	AEPW	'COGENTRIX 345KV'	200	0.00006	-0.06409	266
WERE	'EVANS ENERGY CENTER 138KV'	467	-0.06403	AEPW	'FITZHUGH 161KV'	126	0.00006	-0.06409	266
WERE	'EVANS ENERGY CENTER 138KV'	467	-0.06403	MIPU	'GREENWOOD 161KV'	169.9976	0.00022	-0.06425	266
WERE	'EVANS ENERGY CENTER 138KV'	467	-0.06403	OKGE	'MUSKOGEE 161KV'	166	0.0001	-0.06413	266
WERE	'EVANS ENERGY CENTER 138KV'	467	-0.06403	AEPW	'RIVERSIDE STATION 138KV'	640	0.00009	-0.06412	266
WERE	'EVANS ENERGY CENTER 138KV'	467	-0.06403	MIPU	'SOUTH HARPER 161KV'	315	0.00027	-0.0643	266

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

WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	MIPU	'LAKE ROAD 34KV'	92	0.00008	-0.09207	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	EMDE	'LARUSSEL 161KV'	116	0.00068	-0.09267	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	WERE	'LAWRENCE ENERGY CENTER 230KV'	233.4716	-0.00024	-0.09175	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	AEPW	'LEBROCK 345KV'	465.0004	-0.00035	-0.09164	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	AEPW	'LIEBERMAN 138KV'	73.99999	-0.00032	-0.09167	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	KACP	'MARSHALL 161KV'	15	0.00028	-0.09227	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	OKGE	'MCCLAIN 138KV'	478	-0.00128	-0.09071	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	KACP	'MONTROSE 161KV'	355.3524	0.00043	-0.09242	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	OKGE	'MUSKOGEE 161KV'	166	-0.00012	-0.09187	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	OKGE	'MUSKOGEE 345KV'	1516	-0.00018	-0.09181	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	OKGE	'MUSTANG 138KV'	365.5	-0.00131	-0.09068	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	OKGE	'MUSTANG 69KV'	106	-0.00132	-0.09067	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	AEPW	'NARROWS 69KV'	22	-0.00046	-0.09153	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	KACY	'NEARMAN 161KV'	77	0.00035	-0.09234	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	KACY	'NEARMAN 20KV'	220	0.00035	-0.09234	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	AEPW	'NORTHEASTERN STATION 138KV'	500	0.00011	-0.0921	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	AEPW	'NORTHEASTERN STATION 345KV'	645	0.00033	-0.09232	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	AEPW	'OEC 345KV'	219.0044	-0.00003	-0.09196	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	OKGE	'ONE OAK 345KV'	300	-0.00145	-0.09054	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	EMDE	'OZARK BEACH 161KV'	16	0.00044	-0.09243	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	KACP	'PAOLA COMBUSTION TURBINES 161KV'	63.0542	0.00087	-0.09286	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	AEPW	'PIRKEY GENERATION 138KV'	490	-0.00035	-0.09164	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	KACY	'QUINDARO 161KV'	135.1816	0.00035	-0.09234	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	KACY	'QUINDARO 69KV'	140	0.00035	-0.09234	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	OKGE	'REDBUD 345KV'	250.0063	-0.00114	-0.09085	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	AEPW	'RIVERSIDE STATION 138KV'	640	-0.00016	-0.09183	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	EMDE	'RIVERTON 161KV'	88.89612	0.00079	-0.09278	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	EMDE	'RIVERTON 69KV'	42.51023	0.00074	-0.09273	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	OKGE	'SEMINOLE 138KV'	482.8771	-0.00111	-0.09088	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	OKGE	'SEMINOLE 345KV'	996	-0.00113	-0.09086	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	MIPU	'SIBLEY 161KV'	231.5886	0.00035	-0.09234	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	MIPU	'SIBLEY 69KV'	45.99999	0.00034	-0.09233	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	OKGE	'SMITH COGEN 138KV'	120	-0.0013	-0.09069	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	WERE	'SMOKEY HILLS 34KV'	152	-0.00292	-0.08907	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	OKGE	'SOONER 138KV'	505	-0.00228	-0.08971	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	OKGE	'SOONER 345KV'	513	-0.00192	-0.09007	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	MIPU	'SOUTH HARPER 161KV'	315	0.0005	-0.09249	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	AEPW	'SOUTHWESTERN STATION 138KV'	257	-0.00141	-0.09058	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	EMDE	'STATE LINE 161KV'	503	0.00075	-0.09274	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	-0.00018	-0.09181	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	OKGE	'TINKER 5G 138KV'	31.99805	-0.00122	-0.09077	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	AEPW	'TULSA POWER STATION 138KV'	186	-0.00013	-0.09186	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	AEPW	'WELLETKA 138KV'	84	-0.00054	-0.09145	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	AEPW	'WELSH 345KV'	1044	-0.0004	-0.09159	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	AEPW	'WILKES 138KV'	349.5782	-0.00037	-0.09162	3
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	AEPW	'WILKES 345KV'	311	-0.00036	-0.09163	3
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00188	-0.0619	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	OKGE	'AES 161KV'	320	-0.00012	-0.06366	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	AEPW	'ARSENAL HILL 69KV'	11.21387	-0.00032	-0.06346	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	EMDE	'ASBURY 161KV'	191	0.00096	-0.06474	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	KACP	'BULL CREEK 161KV'	308	0.00059	-0.06437	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	WERE	'CHANUTE 69KV'	55.637	0.00234	-0.06612	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	WERE	'CITY OF AUGUSTA 69KV'	24	0.00755	-0.07133	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	WERE	'CITY OF BURLINGTON 69KV'	34.061	0.00374	-0.06752	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	WERE	'CITY OF ERIE 69KV'	23.374	0.00234	-0.06612	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	WERE	'CITY OF FREDONIA 69KV'	3.596	0.00274	-0.06652	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	WERE	'CITY OF GIRARD 69KV'	4.592	0.0014	-0.06518	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	KACP	'CITY OF HIGGINSVILLE 69KV'	35	0.00035	-0.06413	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	WERE	'CITY OF IOLA 69KV'	24.471	0.00203	-0.06581	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	WERE	'CITY OF NEODESHA 69KV'	4.495	0.0024	-0.06618	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	WEPL	'CLIFTON 115KV'	58.49084	-0.00132	-0.06246	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	0.00374	-0.06752	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	AEPW	'COGENTRIX 345KV'	200	-0.00016	-0.06362	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	AEPW	'COMANCHE 138KV'	160	-0.00142	-0.06236	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	AEPW	'COMANCHE 69KV'	63	-0.00141	-0.06237	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	AEPW	'EASTMAN 138KV'	355.0058	-0.00035	-0.06343	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	EMDE	'ELK RIVER 345KV'	150	0.00455	-0.06833	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	WERE	'EMPORIA 345KV'	310	-0.00113	-0.06265	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	AEPW	'FITZHUGH 161KV'	126	-0.00008	-0.0637	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	AEPW	'FLINT CREEK 161KV'	428	0.00025	-0.06403	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	OKGE	'FPLWND2 34KV'	23.001	-0.00185	-0.06193	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	AEPW	'FULTON 115KV'	24.99999	-0.00033	-0.06345	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	MIPU	'GREENWOOD 161KV'	169.9976	0.00045	-0.06423	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	KACP	'HAWTHORN 161KV'	769	0.00033	-0.06411	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	OKGE	'HORSESHOE LAKE 138KV'	851.5	-0.0012	-0.06258	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	OKGE	'HORSESHOE LAKE 69KV'	16	-0.00115	-0.06263	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	KACP	'IATAN 345KV'	396	0.00005	-0.06383	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00081	-0.06297	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00081	-0.06297	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	AEPW	'KNOXLEE 138KV'	225	-0.00035	-0.06343	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	AEPW	'LD13 69KV'	11	-0.00008	-0.0637	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	KACP	'LACYGNE UNIT 345KV'	958	0.00139	-0.06517	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	MIPU	'LAKE ROAD 161KV'	35	0.00008	-0.06386	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	MIPU	'LAKE ROAD 34KV'	92	0.00008	-0.06386	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	EMDE	'LARUSSEL 161KV'	116	0.00068	-0.06446	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	WERE	'LAWRENCE ENERGY CENTER 230KV'	233.4716	-0.00024	-0.06354	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	AEPW	'LEBROCK 345KV'	465.0004	-0.00035	-0.06343	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	AEPW	'LIEBERMAN 138KV'	73.99999	-0.00032	-0.06346	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	KACP	'MARSHALL 161KV'	15	0.00028	-0.06406	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	OKGE	'MCCLAIN 138KV'	478	-0.00128	-0.0625	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	KACP	'MONTROSE 161KV'	355.3524	0.00043	-0.06421	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	OKGE	'MUSKOGEE 161KV'	166	-0.00012	-0.06386	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	OKGE	'MUSKOGEE 345KV'	1516	-0.00018	-0.06366	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	OKGE	'MUSTANG 138KV'	365.5	-0.00131	-0.06247	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	OKGE	'MUSTANG 69KV'	106	-0.00132	-0.06246	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	AEPW	'NARROWS 69KV'	22	-0.00046	-0.06332	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	KACY	'NEARMAN 161KV'	77	0.00035	-0.06413	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	KACY	'NEARMAN 20KV'	220	0.00035	-0.06413	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	AEPW	'NORTHEASTERN STATION 138KV'	500	0.00011	-0.06389	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	AEPW	'NORTHEASTERN STATION 345KV'	645	0.00033	-0.06411	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	AEPW	'OEC 345KV'	219.0044	-0.00003	-0.06375	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	OKGE	'ONE OAK 345KV'	300	-0.00145	-0.06233	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	EMDE	'OZARK BEACH 161KV'	16	0.00044	-0.06422	4

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

WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	KACP	'PAOLA COMBUSTION TURBINES 161KV'	63.0542	0.00087	-0.06465	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	AEPW	'PIRKEY GENERATION 138KV'	490	-0.00035	-0.06343	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	KACY	'QUINDARO 161KV'	135.1816	0.00035	-0.06413	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	KACY	'QUINDARO 69KV'	140	0.00035	-0.06413	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	OKGE	'REDBUD 345KV'	250.0063	-0.00114	-0.06264	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	AEPW	'RIVERSIDE STATION 138KV'	640	-0.00016	-0.06362	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	EMDE	'RIVERTON 161KV'	88.89612	0.00079	-0.06457	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	EMDE	'RIVERTON 69KV'	42.51023	0.00074	-0.06452	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	OKGE	'SEMINOLE 138KV'	482.8771	-0.00111	-0.06267	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	OKGE	'SEMINOLE 345KV'	996	-0.00113	-0.06265	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	MIPU	'SIBLEY 161KV'	231.5886	0.00035	-0.06413	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	MIPU	'SIBLEY 69KV'	45.99999	0.00034	-0.06412	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	OKGE	'SMITH COGEN 138KV'	120	-0.0013	-0.06248	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	OKGE	'SOONER 345KV'	513	-0.00192	-0.06186	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	MIPU	'SOUTH HARPER 161KV'	315	0.0005	-0.06428	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	AEPW	'SOUTHWESTERN STATION 138KV'	257	-0.00141	-0.06237	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	EMDE	'STATE LINE 161KV'	503	0.00075	-0.06453	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	WERE	'TUCUMSEH ENERGY CENTER 115KV'	108	-0.00018	-0.0636	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	OKGE	'TINKER 5G 138KV'	31.99805	-0.00122	-0.06256	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	AEPW	'TULSA POWER STATION 138KV'	186	-0.00013	-0.06365	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	AEPW	'WELETKA 138KV'	84	-0.00054	-0.06324	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	AEPW	'WELSH 345KV'	1044	-0.0004	-0.06338	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	AEPW	'WILKES 138KV'	349.5782	-0.00037	-0.06341	4
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	AEPW	'WILKES 345KV'	311	-0.00036	-0.06342	4
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	WERE	'EVANS ENERGY CENTER 138KV'	340	-0.01711	-0.07488	4
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	WERE	'CHANUTE 69KV'	55.637	0.00234	-0.05137	5
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	WERE	'CITY OF AUGUSTA 69KV'	24	0.00755	-0.05658	5
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	WERE	'CITY OF BURLINGTON 69KV'	34.061	0.00374	-0.05277	5
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	WERE	'CITY OF ERIE 69KV'	23.374	0.00234	-0.05137	5
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	WERE	'CITY OF FREDONIA 69KV'	3.596	0.00274	-0.05177	5
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	WERE	'CITY OF IOLA 69KV'	24.471	0.00203	-0.05106	5
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	WERE	'CITY OF NEODESHA 69KV'	4.495	0.0024	-0.05143	5
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	0.00374	-0.05277	5
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	EMDE	'ELK RIVER 345KV'	150	0.00455	-0.05358	5
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	WEPL	'A. M. MULLERGRN GENERATOR 115KV'	63	-0.00577	-0.05801	5
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	WERE	'BPU - CITY OF MCPHERSON 115KV'	104.9443	-0.00326	-0.06052	5
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	WERE	'CITY OF WINFIELD 69KV'	26.77	-0.00965	-0.05413	5
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	MIDW	'COLBY 115KV'	2.743789	-0.0036	-0.06018	5
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	-0.00409	-0.05969	5
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	-0.00941	-0.05437	5
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	WERE	'HUTCHINSON ENERGY CENTER 115KV'	205	-0.00406	-0.05972	5
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	WEPL	'JUDSON LARGE 115KV'	105.5424	-0.00946	-0.05432	5
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	WERE	'SMOKEY HILLS 34KV'	152	-0.00292	-0.06086	5
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	OKGE	'SOONER 138KV'	505	-0.00228	-0.0615	5
WEPL	'HARPER 138KV'	17.21	-0.04702	WERE	'CITY OF AUGUSTA 69KV'	24	0.00755	-0.05457	5
WEPL	'HARPER 138KV'	17.21	-0.04702	WERE	'CITY OF BURLINGTON 69KV'	34.061	0.00374	-0.05076	5
WEPL	'HARPER 138KV'	17.21	-0.04702	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	0.00374	-0.05076	5
WEPL	'HARPER 138KV'	17.21	-0.04702	EMDE	'ELK RIVER 345KV'	150	0.00455	-0.05157	5
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	WEPL	'A. M. MULLERGRN GENERATOR 115KV'	63	-0.00577	-0.04326	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00188	-0.04715	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	OKGE	'AES 161KV'	320	-0.00012	-0.04891	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	AEPW	'ARSENAL HILL 69KV'	11.21387	-0.00032	-0.04871	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	EMDE	'ASBURY 161KV'	191	0.00096	-0.04999	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	WERE	'BPU - CITY OF MCPHERSON 115KV'	104.9443	-0.00326	-0.04577	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	KACP	'BULL CREEK 161KV'	308	0.00059	-0.04962	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	WERE	'CITY OF GIRARD 69KV'	4.592	0.0014	-0.05043	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	KACP	'CITY OF HIGGINSVILLE 69KV'	35	0.00035	-0.04938	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	WEPL	'CLIFTON 115KV'	58.49084	-0.00132	-0.04771	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	AEPW	'COGENTRIX 345KV'	200	-0.00016	-0.04887	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	MIDW	'COLBY 115KV'	2.743789	-0.0036	-0.04543	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	AEPW	'COMANCHE 138KV'	160	-0.00142	-0.04781	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	AEPW	'COMANCHE 69KV'	63	-0.00141	-0.04782	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	AEPW	'EASTMAN 138KV'	355.0058	-0.00035	-0.04868	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	WERE	'EMPORIA 345KV'	310	-0.00113	-0.0479	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	AEPW	'FITZHUGH 161KV'	126	-0.00008	-0.04895	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	AEPW	'FLINT CREEK 161KV'	428	0.00025	-0.04928	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	OKGE	'FPLWIND2 34KV'	23.001	-0.00185	-0.04718	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	AEPW	'FULTON 115KV'	24.99999	-0.00033	-0.0487	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	-0.00409	-0.04494	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	MIPU	'GREENWOOD 161KV'	169.9976	0.00045	-0.04948	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	KACP	'HAWTHORN 161KV'	769	0.00033	-0.04936	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	OKGE	'HORSESHOE LAKE 138KV'	851.5	-0.0012	-0.04783	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	OKGE	'HORSESHOE LAKE 69KV'	16	-0.00115	-0.04788	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	WERE	'HUTCHINSON ENERGY CENTER 115KV'	205	-0.00406	-0.04497	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	KACP	'IATAN 345KV'	396	0.00005	-0.04908	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00081	-0.04822	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00081	-0.04822	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	AEPW	'KNOXLEE 138KV'	225	-0.00035	-0.04868	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	AEPW	'L&D13 69KV'	11	-0.00008	-0.04895	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	KACP	'LACYGNE UNIT 345KV'	958	0.00139	-0.05042	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	MIPU	'LAKE ROAD 161KV'	35	0.00008	-0.04911	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	MIPU	'LAKE ROAD 34KV'	92	0.00008	-0.04911	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	EMDE	'LARUSSEL 161KV'	116	0.00068	-0.04971	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	WERE	'LAWRENCE ENERGY CENTER 230KV'	233.4716	-0.00024	-0.04879	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	AEPW	'LEBROCK 345KV'	465.0004	-0.00035	-0.04868	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	AEPW	'LIEBERMAN 138KV'	73.99999	-0.00032	-0.04871	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	KACP	'MARSHALL 161KV'	15	0.00028	-0.04931	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	OKGE	'MCCLAIN 138KV'	478	-0.00128	-0.04775	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	KACP	'MONTROSE 161KV'	355.3524	0.00043	-0.04946	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	OKGE	'MUSKOGEE 161KV'	166	-0.00012	-0.04891	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	OKGE	'MUSKOGEE 345KV'	1516	-0.00018	-0.04885	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	OKGE	'MUSTANG 138KV'	365.5	-0.00131	-0.04772	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	OKGE	'MUSTANG 69KV'	106	-0.00132	-0.04771	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	AEPW	'NARROWS 69KV'	22	-0.00046	-0.04857	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	KACY	'NEARMAN 161KV'	77	0.00035	-0.04938	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	KACY	'NEARMAN 20KV'	220	0.00035	-0.04938	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	AEPW	'NORTHEASTERN STATION 138KV'	500	0.00011	-0.04914	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	AEPW	'NORTHEASTERN STATION 345KV'	645	0.00033	-0.04936	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	AEPW	'OEC 345KV'	219.0044	-0.00003	-0.049	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	OKGE	'ONE OAK 345KV'	300	-0.00145	-0.04758	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	EMDE	'OZARK BEACH 161KV'	16	0.00044	-0.04947	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	KACP	'PAOLA COMBUSTION TURBINES 161KV'	63.0542	0.00087	-0.04999	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	AEPW	'PIRKEY GENERATION 138KV'	490	-0.00035	-0.04868	6

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

WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	KACY	'QUINDARO 161KV'	135.1816	0.00035	-0.04938	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	KACY	'QUINDARO 69KV'	140	0.00035	-0.04938	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	OKGE	'REDBUD 345KV'	250.0063	-0.00114	-0.04789	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	AEPW	'RIVERSIDE STATION 138KV'	640	-0.00016	-0.04887	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	EMDE	'RIVERTON 161KV'	88.89612	0.00079	-0.04982	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	EMDE	'RIVERTON 69KV'	42.51023	0.00074	-0.04977	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	OKGE	'SEMINOLE 138KV'	482.8771	-0.00111	-0.04792	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	OKGE	'SEMINOLE 345KV'	996	-0.00113	-0.0479	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	MIPU	'SIBLEY 161KV'	231.5886	0.00035	-0.04938	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	MIPU	'SIBLEY 69KV'	45.99999	0.00034	-0.04937	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	OKGE	'SMITH COGEN 138KV'	120	-0.0013	-0.04773	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	WERE	'SMOKEY HILLS 34KV'	152	-0.00292	-0.04611	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	OKGE	'SOONER 138KV'	505	-0.00228	-0.04675	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	OKGE	'SOONER 345KV'	513	-0.00192	-0.04711	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	MIPU	'SOUTH HARPER 161KV'	315	0.0005	-0.04953	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	AEPW	'SOUTHWESTERN STATION 138KV'	257	-0.00141	-0.04762	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	EMDE	'STATE LINE 161KV'	503	0.00075	-0.04978	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	-0.00018	-0.04885	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	OKGE	'TINKER 5G 138KV'	31.99805	-0.00122	-0.04781	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	AEPW	'TULSA POWER STATION 138KV'	186	-0.00013	-0.0489	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	AEPW	'WELEETKA 138KV'	84	-0.00054	-0.04849	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	AEPW	'WELSH 345KV'	1044	-0.0004	-0.04863	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	AEPW	'WILKES 138KV'	349.5782	-0.00037	-0.04866	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	AEPW	'WILKES 345KV'	311	-0.00036	-0.04867	6
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.06378	WERE	'EVANS ENERGY CENTER 138KV'	340	-0.01711	-0.04667	6
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	WERE	'CITY OF MULVANE 69KV'	8.29	-0.04903	-0.04296	6
WEPL	'HARPER 138KV'	17.21	-0.04702	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00188	-0.04514	6
WEPL	'HARPER 138KV'	17.21	-0.04702	OKGE	'AES 161KV'	320	-0.00012	-0.0469	6
WEPL	'HARPER 138KV'	17.21	-0.04702	AEPW	'ARSENAL HILL 69KV'	11.21387	-0.00032	-0.0467	6
WEPL	'HARPER 138KV'	17.21	-0.04702	EMDE	'ASBURY 161KV'	191	0.00096	-0.04798	6
WEPL	'HARPER 138KV'	17.21	-0.04702	WERE	'BJU - CITY OF MCPHERSON 115KV'	104.9443	-0.00326	-0.04376	6
WEPL	'HARPER 138KV'	17.21	-0.04702	KACP	'BULL CREEK 161KV'	308	0.00059	-0.04761	6
WEPL	'HARPER 138KV'	17.21	-0.04702	WERE	'CHANUTE 69KV'	55.637	0.00234	-0.04936	6
WEPL	'HARPER 138KV'	17.21	-0.04702	WERE	'CITY OF ERIE 69KV'	23.374	0.00234	-0.04936	6
WEPL	'HARPER 138KV'	17.21	-0.04702	WERE	'CITY OF FREDONIA 69KV'	3.596	0.00274	-0.04976	6
WEPL	'HARPER 138KV'	17.21	-0.04702	WERE	'CITY OF GIRARD 69KV'	4.592	0.0014	-0.04842	6
WEPL	'HARPER 138KV'	17.21	-0.04702	KACP	'CITY OF HIGGINSVILLE 69KV'	35	0.00035	-0.04737	6
WEPL	'HARPER 138KV'	17.21	-0.04702	WERE	'CITY OF IOLA 69KV'	24.471	0.00203	-0.04905	6
WEPL	'HARPER 138KV'	17.21	-0.04702	WERE	'CITY OF NEODESHA 69KV'	4.495	0.0024	-0.04942	6
WEPL	'HARPER 138KV'	17.21	-0.04702	WEPL	'CLIFTON 115KV'	58.49084	-0.00132	-0.0457	6
WEPL	'HARPER 138KV'	17.21	-0.04702	AEPW	'COGENTRIX 345KV'	200	-0.00016	-0.04686	6
WEPL	'HARPER 138KV'	17.21	-0.04702	MIDW	'COLBY 115KV'	2.743789	-0.0036	-0.04342	6
WEPL	'HARPER 138KV'	17.21	-0.04702	AEPW	'COMANCHE 138KV'	160	-0.00142	-0.0456	6
WEPL	'HARPER 138KV'	17.21	-0.04702	AEPW	'COMANCHE 69KV'	63	-0.00141	-0.04561	6
WEPL	'HARPER 138KV'	17.21	-0.04702	AEPW	'EASTMAN 138KV'	355.0058	-0.00035	-0.04667	6
WEPL	'HARPER 138KV'	17.21	-0.04702	WERE	'EMPORIA 345KV'	310	-0.00113	-0.04589	6
WEPL	'HARPER 138KV'	17.21	-0.04702	AEPW	'FITZHUGH 161KV'	126	-0.00008	-0.04694	6
WEPL	'HARPER 138KV'	17.21	-0.04702	AEPW	'FLINT CREEK 161KV'	428	0.00025	-0.04727	6
WEPL	'HARPER 138KV'	17.21	-0.04702	OKGE	'FPLWIND2 34KV'	23.001	-0.00185	-0.04517	6
WEPL	'HARPER 138KV'	17.21	-0.04702	AEPW	'FULTON 115KV'	24.99999	-0.00033	-0.04669	6
WEPL	'HARPER 138KV'	17.21	-0.04702	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	-0.00409	-0.04293	6
WEPL	'HARPER 138KV'	17.21	-0.04702	MIPU	'GREENWOOD 161KV'	169.9976	0.00045	-0.04747	6
WEPL	'HARPER 138KV'	17.21	-0.04702	KACP	'HAWTHORN 161KV'	769	0.00033	-0.04735	6
WEPL	'HARPER 138KV'	17.21	-0.04702	OKGE	'HORSESHOE LAKE 138KV'	851.5	-0.0012	-0.04582	6
WEPL	'HARPER 138KV'	17.21	-0.04702	OKGE	'HORSESHOE LAKE 69KV'	16	-0.00115	-0.04587	6
WEPL	'HARPER 138KV'	17.21	-0.04702	WERE	'HUTCHINSON ENERGY CENTER 115KV'	205	-0.00406	-0.04296	6
WEPL	'HARPER 138KV'	17.21	-0.04702	KACP	'IATAN 345KV'	396	0.00005	-0.04707	6
WEPL	'HARPER 138KV'	17.21	-0.04702	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00081	-0.04621	6
WEPL	'HARPER 138KV'	17.21	-0.04702	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00081	-0.04621	6
WEPL	'HARPER 138KV'	17.21	-0.04702	AEPW	'KNOXLEE 138KV'	225	-0.00035	-0.04667	6
WEPL	'HARPER 138KV'	17.21	-0.04702	AEPW	'LD13 69KV'	11	-0.00008	-0.04694	6
WEPL	'HARPER 138KV'	17.21	-0.04702	KACP	'LACYGNE UNIT 345KV'	958	0.00139	-0.04841	6
WEPL	'HARPER 138KV'	17.21	-0.04702	MIPU	'LAKE ROAD 161KV'	35	0.00008	-0.0471	6
WEPL	'HARPER 138KV'	17.21	-0.04702	MIPU	'LAKE ROAD 34KV'	92	0.00008	-0.0471	6
WEPL	'HARPER 138KV'	17.21	-0.04702	EMDE	'LARUSSEL 161KV'	116	0.00068	-0.0477	6
WEPL	'HARPER 138KV'	17.21	-0.04702	WERE	'LAWRENCE ENERGY CENTER 230KV'	233.4716	-0.00024	-0.04678	6
WEPL	'HARPER 138KV'	17.21	-0.04702	AEPW	'LEBROCK 345KV'	465.0004	-0.00035	-0.04667	6
WEPL	'HARPER 138KV'	17.21	-0.04702	AEPW	'LIEBERMAN 138KV'	73.99999	-0.00032	-0.0467	6
WEPL	'HARPER 138KV'	17.21	-0.04702	KACP	'MARSHALL 161KV'	15	0.00028	-0.0473	6
WEPL	'HARPER 138KV'	17.21	-0.04702	OKGE	'MCCLAIN 138KV'	478	-0.00128	-0.04574	6
WEPL	'HARPER 138KV'	17.21	-0.04702	KACP	'MONTROSE 161KV'	355.3524	0.00043	-0.04745	6
WEPL	'HARPER 138KV'	17.21	-0.04702	OKGE	'MUSKOGEE 161KV'	166	-0.00012	-0.0469	6
WEPL	'HARPER 138KV'	17.21	-0.04702	OKGE	'MUSKOGEE 345KV'	1516	-0.00018	-0.04684	6
WEPL	'HARPER 138KV'	17.21	-0.04702	OKGE	'MUSTANG 138KV'	365.5	-0.00131	-0.04571	6
WEPL	'HARPER 138KV'	17.21	-0.04702	OKGE	'MUSTANG 69KV'	106	-0.00132	-0.0457	6
WEPL	'HARPER 138KV'	17.21	-0.04702	AEPW	'NARROWS 69KV'	22	-0.00046	-0.04656	6
WEPL	'HARPER 138KV'	17.21	-0.04702	KACY	'NEARMAN 161KV'	77	0.00035	-0.04737	6
WEPL	'HARPER 138KV'	17.21	-0.04702	KACY	'NEARMAN 20KV'	220	0.00035	-0.04737	6
WEPL	'HARPER 138KV'	17.21	-0.04702	AEPW	'NORTHEASTERN STATION 138KV'	500	0.00011	-0.04713	6
WEPL	'HARPER 138KV'	17.21	-0.04702	AEPW	'NORTHEASTERN STATION 345KV'	645	0.00033	-0.04735	6
WEPL	'HARPER 138KV'	17.21	-0.04702	AEPW	'OEC 345KV'	219.0044	-0.00003	-0.04699	6
WEPL	'HARPER 138KV'	17.21	-0.04702	OKGE	'ONE OAK 345KV'	300	-0.00145	-0.04557	6
WEPL	'HARPER 138KV'	17.21	-0.04702	EMDE	'OZARK BEACH 161KV'	16	0.00044	-0.04746	6
WEPL	'HARPER 138KV'	17.21	-0.04702	KACP	'PAOLA COMBUSTION TURBINES 161KV'	63.0542	0.00087	-0.04789	6
WEPL	'HARPER 138KV'	17.21	-0.04702	AEPW	'PIRKEY GENERATION 138KV'	490	-0.00035	-0.04667	6
WEPL	'HARPER 138KV'	17.21	-0.04702	KACY	'QUINDARO 161KV'	135.1816	0.00035	-0.04737	6
WEPL	'HARPER 138KV'	17.21	-0.04702	KACY	'QUINDARO 69KV'	140	0.00035	-0.04737	6
WEPL	'HARPER 138KV'	17.21	-0.04702	OKGE	'REDBUD 345KV'	250.0063	-0.00114	-0.04588	6
WEPL	'HARPER 138KV'	17.21	-0.04702	AEPW	'RIVERSIDE STATION 138KV'	640	-0.00016	-0.04886	6
WEPL	'HARPER 138KV'	17.21	-0.04702	EMDE	'RIVERTON 161KV'	88.89612	0.00079	-0.04781	6
WEPL	'HARPER 138KV'	17.21	-0.04702	EMDE	'RIVERTON 69KV'	42.51023	0.00074	-0.04776	6
WEPL	'HARPER 138KV'	17.21	-0.04702	OKGE	'SEMINOLE 138KV'	482.8771	-0.00111	-0.04591	6
WEPL	'HARPER 138KV'	17.21	-0.04702	OKGE	'SEMINOLE 345KV'	996	-0.00113	-0.04589	6
WEPL	'HARPER 138KV'	17.21	-0.04702	MIPU	'SIBLEY 161KV'	231.5886	0.00035	-0.04737	6
WEPL	'HARPER 138KV'	17.21	-0.04702	MIPU	'SIBLEY 69KV'	45.99999	0.00034	-0.04736	6
WEPL	'HARPER 138KV'	17.21	-0.04702	OKGE	'SMITH COGEN 138KV'	120	-0.0013	-0.04572	6
WEPL	'HARPER 138KV'	17.21	-0.04702	WERE	'SMOKEY HILLS 34KV'	152	-0.00292	-0.0441	6
WEPL	'HARPER 138KV'	17.21	-0.04702	OKGE	'SOONER 138KV'	505	-0.00228	-0.04474	6
WEPL	'HARPER 138KV'	17.21	-0.04702	OKGE	'SOONER 345KV'	513	-0.00192	-0.0451	6
WEPL	'HARPER 138KV'	17.21	-0.04702	MIPU	'SOUTH HARPER 161KV'	315	0.0005	-0.04752	6
WEPL	'HARPER 138KV'	17.21	-0.04702	AEPW	'SOUTHWESTERN STATION 138KV'	257	-0.00141	-0.04561	6
WEPL	'HARPER 138KV'	17.21	-0.04702	EMDE	'STATE LINE 161KV'	503	0.00075	-0.04777	6
WEPL	'HARPER 138KV'	17.21	-0.04702	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	-0.00018	-0.04684	6

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

WEPL	'HARPER 138KV'	17.21	-0.04702	OKGE	'TINKER 5G 138KV'	31.99805	-0.00122	-0.0458	6
WEPL	'HARPER 138KV'	17.21	-0.04702	AEPW	'TULSA POWER STATION 138KV'	186	-0.00013	-0.04689	6
WEPL	'HARPER 138KV'	17.21	-0.04702	AEPW	'WEELETKA 138KV'	84	-0.00054	-0.04648	6
WEPL	'HARPER 138KV'	17.21	-0.04702	AEPW	'WELSH 345KV'	1044	-0.0004	-0.04662	6
WEPL	'HARPER 138KV'	17.21	-0.04702	AEPW	'WILKES 138KV'	349.5782	-0.00037	-0.04665	6
WEPL	'HARPER 138KV'	17.21	-0.04702	AEPW	'WILKES 345KV'	311	-0.00036	-0.04666	6
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	WERE	'CITY OF WINFIELD 69KV'	26.77	-0.00965	-0.03938	7
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	-0.00941	-0.03962	7
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	WEPL	'JUDSON LARGE 115KV'	105.5424	-0.00946	-0.03957	7
WEPL	'HARPER 138KV'	17.21	-0.04702	WEPL	'A. M. MULLERGEREN GENERATOR 115KV'	63	-0.00577	-0.04125	7
WEPL	'HARPER 138KV'	17.21	-0.04702	WERE	'CITY OF WINFIELD 69KV'	26.77	-0.00965	-0.03737	7
WEPL	'HARPER 138KV'	17.21	-0.04702	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	-0.00941	-0.03761	7
WEPL	'HARPER 138KV'	17.21	-0.04702	WEPL	'JUDSON LARGE 115KV'	105.5424	-0.00946	-0.03756	7
WERE	'GILL ENERGY CENTER 69KV'	118	-0.09199	WERE	'WACO 138KV'	17.967	-0.05903	-0.03296	8
WERE	'CITY OF MULVANE 69KV'	7.5	-0.04903	WERE	'EVANS ENERGY CENTER 138KV'	340	-0.01711	-0.03192	9

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

Upgrade: Evans - Grant - Chisolm Rebuild and Conversion Project
 Limiting Facility: CHISHOLM (CHISLM1X) 138/69/13.2KV TRANSFORMER CKT 1
 Direction: From->To
 Line Outage: EVANS ENERGY CENTER NORTH - SEDGWICK COUNTY NO. 12 COLWICH 138KV CKT 1
 Flowgate: CHISLM1X1421570405706512208SP
 Date Redispatch Needed: Starting 2008 6/1 - 10/1 Until EOC
 Season Flowgate Identified: 2008 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount							
1161506	4.3	4.3							
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	WERE	'CITY OF BURLINGTON 69KV'	34.061	0.00156	-0.05153	83
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	WERE	'CHANUTE 69KV'	55.637	0.00086	-0.05083	84
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	EMDE	'ELK RIVER 345KV'	150	0.0007	-0.05067	84
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	KACP	'LACYGNE UNIT 345KV'	958	0.00066	-0.05063	84
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	EMDE	'ASBURY 161KV'	191	0.00025	-0.05022	85
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	KACP	'BULL CREEK 161KV'	308	0.00042	-0.05039	85
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	KACP	'CITY OF HIGGINSVILLE 69KV'	35	0.00028	-0.05025	85
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	WERE	'EMPORIA 345KV'	310	0.00035	-0.05032	85
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	MIPU	'GREENWOOD 161KV'	169.9976	0.00036	-0.05033	85
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	KACP	'HAWTHORN 161KV'	769	0.00031	-0.05028	85
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	KACP	'IATAN 345KV'	396	0.00024	-0.05021	85
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00008	-0.05005	85
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00008	-0.05005	85
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	MIPU	'LAKE ROAD 161KV'	35	0.00021	-0.05018	85
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	MIPU	'LAKE ROAD 34KV'	92	0.00021	-0.05018	85
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	EMDE	'LARUSSEL 161KV'	116	0.00017	-0.05014	85
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	WERE	'LAWRENCE ENERGY CENTER 230KV'	233.4716	0.00032	-0.05029	85
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	KACP	'MONTROSE 161KV'	355.3524	0.00032	-0.05029	85
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	KACY	'NEARMAN 160KV'	77	0.00034	-0.05031	85
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	KACY	'NEARMAN 20KV'	220	0.00034	-0.05031	85
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	KACP	'PAOLA COMBUSTION TURBINES 161KV'	63.0542	0.00048	-0.05045	85
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	KACY	'QUINDARO 161KV'	135.1816	0.00034	-0.05031	85
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	KACY	'QUINDARO 69KV'	140	0.00034	-0.05031	85
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	EMDE	'RIVERTON 161KV'	88.89612	0.00018	-0.05015	85
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	EMDE	'RIVERTON 69KV'	42.51023	0.00017	-0.05014	85
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	MIPU	'SIBLEY 161KV'	231.5886	0.00031	-0.05028	85
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	MIPU	'SIBLEY 69KV'	45.99999	0.00031	-0.05028	85
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	MIPU	'SOUTH HARPER 161KV'	315	0.0004	-0.05037	85
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	EMDE	'STATE LINE 161KV'	503	0.00017	-0.05014	85
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.00038	-0.05035	85
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00049	-0.04948	86
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	OKGE	'AES 161KV'	320	-0.00011	-0.04986	86
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	WEPL	'CLIFTON 115KV'	58.49084	-0.0003	-0.04967	86
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	AEPW	'COGENTRIX 345KV'	200	-0.00016	-0.04981	86
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	AEPW	'EASTMAN 138KV'	355.0058	-0.00016	-0.04981	86
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	AEPW	'FITZHUGH 161KV'	126	-0.00009	-0.04988	86
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	AEPW	'FLINT CREEK 161KV'	428	-0.00001	-0.04996	86
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	OKGE	'HORSESHOE LAKE 138KV'	851.5	-0.00047	-0.0495	86
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	AEPW	'KNOXLEE 138KV'	225	-0.00015	-0.04982	86
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	AEPW	'LEBROCK 345KV'	465.0004	-0.00016	-0.04981	86
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	AEPW	'LIEBERMAN 138KV'	73.99999	-0.00014	-0.04983	86
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	OKGE	'MCCLAIN 138KV'	478	-0.00048	-0.04949	86
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	OKGE	'MUSKOGEE 161KV'	166	-0.00014	-0.04983	86
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	OKGE	'MUSKOGEE 345KV'	1516	-0.00015	-0.04982	86
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	OKGE	'MUSTANG 138KV'	365.5	-0.00049	-0.04948	86
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	OKGE	'MUSTANG 69KV'	106	-0.0005	-0.04947	86
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00011	-0.04986	86
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00002	-0.04995	86
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	AEPW	'OEC 345KV'	219.0044	-0.00012	-0.04985	86
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	AEPW	'PIRKEY GENERATION 138KV'	490	-0.00016	-0.04981	86
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	OKGE	'REDBUD 345KV'	250.0063	-0.00045	-0.04952	86
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	AEPW	'RIVERSIDE STATION 138KV'	640	-0.00017	-0.0498	86
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	OKGE	'SEMINOLE 138KV'	482.8771	-0.00043	-0.04954	86
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	OKGE	'SEMINOLE 345KV'	996	-0.00043	-0.04954	86
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	OKGE	'SMITH COGEN 138KV'	120	-0.00049	-0.04948	86
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	OKGE	'TINKER 5G 138KV'	31.99805	-0.00046	-0.04951	86
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	AEPW	'TULSA POWER STATION 138KV'	186	-0.00016	-0.04981	86
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	AEPW	'WEELETKA 138KV'	84	-0.00027	-0.0497	86
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	AEPW	'WELSH 345KV'	1044	-0.00017	-0.0498	86
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	AEPW	'WILKES 138KV'	349.5782	-0.00016	-0.04981	86
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	AEPW	'WILKES 345KV'	311	-0.00016	-0.04981	86
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	AEPW	'COMANCHE 138KV'	160	-0.00056	-0.04941	87
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	AEPW	'COMANCHE 69KV'	63	-0.00056	-0.04941	87
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	OKGE	'ONE OAK 345KV'	300	-0.00054	-0.04943	87
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	OKGE	'SOONER 345KV'	513	-0.00076	-0.04921	87
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	AEPW	'SOUTHWESTERN STATION 138KV'	257	-0.00056	-0.04941	87
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	WERE	'BPU - CITY OF MCPHERSON 115KV'	104.9443	-0.00132	-0.04865	88
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	WERE	'SMOKEY HILLS 34KV'	152	-0.00113	-0.04884	88

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

WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	OKGE	'SOONER 138KV'	505	-0.00134	-0.04863	88
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	-0.00188	-0.04809	89
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	WERE	'HUTCHINSON ENERGY CENTER 115KV'	205	-0.00179	-0.04818	89
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	WEPL	'A. M. MULLERGEREN GENERATOR 115KV'	63	-0.00287	-0.04711	91
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	WERE	'EVANS ENERGY CENTER 138KV'	340	-0.00278	-0.04719	91
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	-0.00506	-0.04491	95
WERE	'GILL ENERGY CENTER 69KV'	118	-0.04997	WEPL	'JUDSON LARGE 115KV'	105.5424	-0.00509	-0.04488	95
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	WERE	'CHANUTE 69KV'	55.637	0.00086	-0.03741	114
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	EMDE	'ELK RIVER 345KV'	150	0.0007	-0.03725	115
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	KACP	'LACYGNE UNIT 345KV'	958	0.00066	-0.03721	115
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	EMDE	'ASBURY 161KV'	191	0.00025	-0.0368	116
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	KACP	'BULL CREEK 161KV'	308	0.00042	-0.03697	116
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	WERE	'EMPORIA 345KV'	310	0.00035	-0.0369	116
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	MIPU	'GREENWOOD 161KV'	169.9976	0.00036	-0.03691	116
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	KACP	'HAWTHORN 161KV'	769	0.00031	-0.03686	116
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	KACP	'IATAN 345KV'	396	0.00024	-0.03679	116
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	MIPU	'LAKE ROAD 34KV'	92	0.00021	-0.03676	116
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	WERE	'LAWRENCE ENERGY CENTER 230KV'	233.4716	0.00032	-0.03687	116
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	KACP	'MONTROSE 161KV'	355.3524	0.00032	-0.03687	116
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	KACY	'NEARMAN 161KV'	77	0.00034	-0.03689	116
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	KACY	'NEARMAN 20KV'	220	0.00034	-0.03689	116
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	KACP	'PAOLA COMBUSTION TURBINES 161KV'	63.0542	0.00048	-0.03703	116
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	KACY	'QUINDARO 161KV'	135.1816	0.00034	-0.03689	116
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	KACY	'QUINDARO 69KV'	140	0.00034	-0.03689	116
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	EMDE	'RIVERTON 161KV'	88.89612	0.00018	-0.03673	116
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	MIPU	'SIBLEY 161KV'	231.5886	0.00031	-0.03686	116
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	MIPU	'SIBLEY 69KV'	45.99999	0.00031	-0.03686	116
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	MIPU	'SOUTH HARPER 161KV'	315	0.0004	-0.03695	116
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.00038	-0.03693	116
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	OKGE	'AES 161KV'	320	-0.00011	-0.03644	117
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	AEPW	'FITZHUGH 161KV'	126	-0.00009	-0.03646	117
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	AEPW	'FLINT CREEK 161KV'	428	-0.00001	-0.03654	117
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00008	-0.03663	117
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00008	-0.03663	117
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	EMDE	'LARUSSEL 161KV'	116	0.00017	-0.03672	117
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	AEPW	'LIEBERMAN 138KV'	73.99999	-0.00014	-0.03641	117
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	OKGE	'MUSKOGEE 161KV'	166	-0.00014	-0.03641	117
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00011	-0.03644	117
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00002	-0.03653	117
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	AEPW	'OEC 345KV'	219.0044	-0.00012	-0.03643	117
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	EMDE	'RIVERTON 69KV'	42.51023	0.00017	-0.03672	117
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	EMDE	'STATE LINE 161KV'	503	0.00017	-0.03672	117
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	WEPL	'CLIFTON 115KV'	58.49084	-0.00003	-0.03625	118
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	AEPW	'COGENTRIX 345KV'	200	-0.00016	-0.03639	118
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	AEPW	'EASTMAN 138KV'	355.0058	-0.00016	-0.03639	118
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	AEPW	'KNOXLEE 138KV'	225	-0.00015	-0.0364	118
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	AEPW	'LEBROCK 345KV'	465.0004	-0.00016	-0.03639	118
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	OKGE	'MUSKOGEE 345KV'	1516	-0.00015	-0.0364	118
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	AEPW	'PIRKEY GENERATION 138KV'	490	-0.00016	-0.03639	118
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	AEPW	'RIVERSIDE STATION 138KV'	640	-0.00017	-0.03638	118
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	OKGE	'SEMINOLE 138KV'	482.8771	-0.00043	-0.03612	118
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	OKGE	'SEMINOLE 345KV'	996	-0.00043	-0.03612	118
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	AEPW	'TULSA POWER STATION 138KV'	186	-0.00016	-0.03639	118
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	AEPW	'WEELETKA 138KV'	84	-0.00027	-0.03628	118
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	AEPW	'WELSH 345KV'	1044	-0.00017	-0.03638	118
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	AEPW	'WILKES 138KV'	349.5782	-0.00016	-0.03639	118
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	AEPW	'WILKES 345KV'	311	-0.00016	-0.03639	118
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00049	-0.03606	119
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	AEPW	'COMANCHE 138KV'	160	-0.00056	-0.03599	119
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	AEPW	'COMANCHE 69KV'	63	-0.00056	-0.03599	119
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	OKGE	'HORSESHOE LAKE 138KV'	851.5	-0.00047	-0.03608	119
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	OKGE	'MCCLAIN 138KV'	478	-0.00048	-0.03607	119
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	OKGE	'MUSTANG 138KV'	365.5	-0.00049	-0.03606	119
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	OKGE	'MUSTANG 69KV'	106	-0.0005	-0.03605	119
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	OKGE	'ONE OAK 345KV'	300	-0.00054	-0.03601	119
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	OKGE	'REDBUD 345KV'	250.0063	-0.00045	-0.0361	119
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	OKGE	'SMITH COGEN 138KV'	120	-0.00049	-0.03606	119
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	AEPW	'SOUTHWESTERN STATION 138KV'	257	-0.00056	-0.03599	119
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	OKGE	'SOONER 345KV'	513	-0.00076	-0.03579	120
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	WERE	'BPU - CITY OF MCPHERSON 115KV'	104.9443	-0.00132	-0.03523	121
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	WERE	'SMOKEY HILLS 34KV'	152	-0.00113	-0.03542	121
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	OKGE	'SOONER 138KV'	505	-0.00134	-0.03521	122
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	-0.00188	-0.03467	123
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	WERE	'HUTCHINSON ENERGY CENTER 115KV'	205	-0.00179	-0.03476	123
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	WEPL	'A. M. MULLERGEREN GENERATOR 115KV'	63	-0.00287	-0.03368	127
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	WERE	'EVANS ENERGY CENTER 138KV'	340	-0.00278	-0.03377	127
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	-0.00506	-0.03149	136
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.03655	WEPL	'JUDSON LARGE 115KV'	105.5424	-0.00509	-0.03146	136

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

Upgrade: Evans - Grant - Chisolm Rebuild and Conversion Project
 Limiting Facility: CHISOLM (CHISLM1X) 138/69/13.2KV TRANSFORMER CKT 1
 Direction: From->To
 Line Outage: SPP-WERE-39
 Flowgate: CHISLM1X1421SPP-WERE-392208SP
 Date Redispatch Needed: Starting 2008 6/1 - 10/1 Until EOC
 Season Flowgate Identified: 2008 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount
1161506	0.6	0.6

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	WEPL	'A. M. MULLERGEREN GENERATOR 115KV'	63	-0.004	-0.07053	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.0005	-0.07403	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	OKGE	'AES 161KV'	320	-0.0002	-0.07433	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	AEPW	'ARSENAL HILL 69KV'	11.21387	-0.00023	-0.0743	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	EMDE	'ASBURY 161KV'	191	0.00031	-0.07484	8

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

WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	WERE	'BPU - CITY OF MCPHERSON 115KV'	104.9443	-0.00172	-0.07281	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	KACP	'BULL CREEK 161KV'	308	0.0007	-0.07523	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	WERE	'CHANUTE 69KV'	55.637	0.0013	-0.07583	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	WERE	'CITY OF AUGUSTA 69KV'	24	0.00214	-0.07667	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	WERE	'CITY OF BURLINGTON 69KV'	34.061	0.00233	-0.07686	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	WERE	'CITY OF ERIE 69KV'	23.374	0.0013	-0.07583	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	WERE	'CITY OF FREDONIA 69KV'	3.596	0.00158	-0.07611	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	WERE	'CITY OF GIRARD 69KV'	4.592	0.00052	-0.07505	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	KACP	'CITY OF HIGGINSVILLE 69KV'	35	0.00047	-0.075	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	WERE	'CITY OF IOLA 69KV'	24.471	0.00109	-0.07562	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	WERE	'CITY OF NEODESHA 69KV'	4.495	0.00131	-0.07584	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	WEPL	'CLIFTON 115KV'	58.49084	-0.00023	-0.0743	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	0.00233	-0.07686	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	AEPW	'COGENTRIX 345KV'	200	-0.00031	-0.07422	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	MIDW	'COLBY 115KV'	2.743789	-0.00242	-0.07211	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	AEPW	'COMANCHE 138KV'	160	-0.00085	-0.07368	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	AEPW	'COMANCHE 69KV'	63	-0.00085	-0.07368	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	AEPW	'EASTMAN 138KV'	355.0058	-0.00025	-0.07428	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	EMDE	'ELK RIVER 345KV'	150	0.00044	-0.07497	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	WERE	'EMPORIA 345KV'	310	0.00078	-0.07531	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	WERE	'EVANS ENERGY CENTER 138KV'	340	-0.00357	-0.07096	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	AEPW	'FITZHUGH 161KV'	126	-0.00016	-0.07437	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	AEPW	'FLINT CREEK 161KV'	428	-0.00008	-0.07445	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	OKGE	'FPLWND2 34KV'	23.001	-0.00121	-0.07332	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	AEPW	'FULTON 115KV'	24.99999	-0.00024	-0.07429	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	-0.00256	-0.07197	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	MIPU	'GREENWOOD 161KV'	169.9976	0.00062	-0.07515	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	KACP	'HAWTHORN 161KV'	769	0.00055	-0.07508	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	OKGE	'HORSESHOE LAKE 138KV'	851.5	-0.00073	-0.0738	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	OKGE	'HORSESHOE LAKE 69KV'	16	-0.00071	-0.07382	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	WERE	'HUTCHINSON ENERGY CENTER 115KV'	205	-0.00239	-0.07214	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	KACP	'IATAN 345KV'	396	0.00048	-0.07501	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00032	-0.07485	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00032	-0.07485	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	AEPW	'KNOXLEE 138KV'	225	-0.00025	-0.07428	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	AEPW	'L&D13 69KV'	11	-0.00019	-0.07434	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	KACP	'LACYGNE UNIT 345KV'	958	0.00102	-0.07555	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	MIPU	'LAKE ROAD 161KV'	35	0.00041	-0.07494	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	MIPU	'LAKE ROAD 34KV'	92	0.00041	-0.07494	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	EMDE	'LARUSSEL 161KV'	116	0.00019	-0.07472	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	WERE	'LAWRENCE ENERGY CENTER 230KV'	233.4716	0.00066	-0.07519	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	AEPW	'LEBROCK 345KV'	465.0004	-0.00025	-0.07428	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	AEPW	'LIEBERMAN 138KV'	73.99999	-0.00023	-0.0743	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	KACP	'MARSHALL 161KV'	15	0.00035	-0.07488	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	OKGE	'MCCLAIN 138KV'	478	-0.00075	-0.07378	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	KACP	'MONROSE 161KV'	355.3524	0.00054	-0.07507	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	OKGE	'MUSKOGEE 161KV'	166	-0.00026	-0.07427	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	OKGE	'MUSKOGEE 345KV'	1516	-0.00029	-0.07424	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	OKGE	'MUSTANG 138KV'	365.5	-0.00076	-0.07377	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	OKGE	'MUSTANG 69KV'	106	-0.00077	-0.07376	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	AEPW	'NARROWS 69KV'	22	-0.00032	-0.07421	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	KACY	'NEARMAN 161KV'	77	0.00059	-0.07512	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	KACY	'NEARMAN 20KV'	220	0.00059	-0.07512	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00025	-0.07428	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00011	-0.07442	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	AEPW	'OEC 345KV'	219.0044	-0.00025	-0.07428	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	OKGE	'ONE OAK 345KV'	300	-0.00084	-0.07369	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	EMDE	'OZARK BEACH 161KV'	16	0.00011	-0.07464	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	KACP	'PAOLA COMBUSTION TURBINES 161KV'	63.0542	0.00077	-0.0753	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	AEPW	'PIRKEY GENERATION 138KV'	490	-0.00025	-0.07428	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	KACY	'QUINDARO 161KV'	135.1816	0.00059	-0.07512	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	KACY	'QUINDARO 69KV'	140	0.00059	-0.07512	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	OKGE	'REDBUD 345KV'	250.0063	-0.00071	-0.07382	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	AEPW	'RIVERSIDE STATION 138KV'	640	-0.00031	-0.07422	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	EMDE	'RIVERTON 161KV'	88.89612	0.00019	-0.07472	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	EMDE	'RIVERTON 69KV'	42.51023	0.00018	-0.07471	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	OKGE	'SEMINOLE 138KV'	482.8771	-0.00067	-0.07386	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	OKGE	'SEMINOLE 345KV'	996	-0.00068	-0.07385	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	MIPU	'SIBLEY 161KV'	231.5886	0.00054	-0.07507	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	MIPU	'SIBLEY 69KV'	45.99999	0.00054	-0.07507	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	OKGE	'SMITH COGEN 138KV'	120	-0.00076	-0.07377	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	WERE	'SMOKEY HILLS 34KV'	152	-0.00145	-0.07308	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	OKGE	'SOONER 138KV'	505	-0.00022	-0.07233	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	OKGE	'SOONER 345KV'	513	-0.00012	-0.07333	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	MIPU	'SOUTH HARPER 161KV'	315	0.00068	-0.07521	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	AEPW	'SOUTHWESTERN STATION 138KV'	257	-0.00085	-0.07368	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	EMDE	'STATE LINE 161KV'	503	0.00019	-0.07472	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.00077	-0.0753	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	OKGE	'TINKER 5G 138KV'	31.99805	-0.00072	-0.07381	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	AEPW	'TULSA POWER STATION 138KV'	186	-0.00031	-0.07422	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	AEPW	'WELEETKA 138KV'	84	-0.00045	-0.07408	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	AEPW	'WELSH 345KV'	1044	-0.00028	-0.07425	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	AEPW	'WILKES 138KV'	349.5782	-0.00026	-0.07427	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	AEPW	'WILKES 345KV'	311	-0.00026	-0.07427	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	-0.00072	-0.06733	9
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	WEPL	'JUDSON LARGE 115KV'	105.5424	-0.00025	-0.06728	9
WERE	'GILL ENERGY CENTER 69KV'	118	-0.07453	WERE	'CITY OF WINFIELD 69KV'	26.77	-0.01504	-0.05949	10
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.0005	-0.05119	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	OKGE	'AES 161KV'	320	-0.0002	-0.05149	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	AEPW	'ARSENAL HILL 69KV'	11.21387	-0.00023	-0.05146	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	EMDE	'ASBURY 161KV'	191	0.00031	-0.052	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	KACP	'BULL CREEK 161KV'	308	0.00007	-0.05239	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	WERE	'CHANUTE 69KV'	55.637	0.0013	-0.05299	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	WERE	'CITY OF AUGUSTA 69KV'	24	0.00214	-0.05383	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	WERE	'CITY OF BURLINGTON 69KV'	34.061	0.00233	-0.05402	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	WERE	'CITY OF ERIE 69KV'	23.374	0.0013	-0.05299	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	WERE	'CITY OF GIRARD 69KV'	4.592	0.00052	-0.05221	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	KACP	'CITY OF HIGGINSVILLE 69KV'	35	0.00047	-0.05216	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	WERE	'CITY OF IOLA 69KV'	24.471	0.00109	-0.05278	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	WERE	'CITY OF NEODESHA 69KV'	4.495	0.00131	-0.053	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	WEPL	'CLIFTON 115KV'	58.49084	-0.00023	-0.05146	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	0.00233	-0.05402	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	AEPW	'COGENTRIX 345KV'	200	-0.00031	-0.05138	11

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

WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	AEPW	'COMANCHE 138KV'	160	-0.00085	-0.05084	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	AEPW	'COMANCHE 69KV'	63	-0.00085	-0.05084	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	AEPW	'EASTMAN 138KV'	355.0058	-0.00025	-0.05144	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	EMDE	'ELK RIVER 345KV'	150	0.00044	-0.05213	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	WERE	'EMPORIA 345KV'	310	0.00078	-0.05247	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	AEPW	'FITZHUGH 161KV'	126	-0.00016	-0.05153	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	AEPW	'FLINT CREEK 161KV'	428	-0.00008	-0.05161	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	OKGE	'FPLWND2 34KV'	23.001	-0.00121	-0.05048	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	AEPW	'FULTON 115KV'	24.99999	-0.00024	-0.05145	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	MIPU	'GREENWOOD 161KV'	169.9976	0.00062	-0.05231	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	KACP	'HAWTHORN 161KV'	769	0.00055	-0.05224	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	OKGE	'HORSESHOE LAKE 138KV'	851.5	-0.00073	-0.05096	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	OKGE	'HORSESHOE LAKE 69KV'	16	-0.00071	-0.05098	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	KACP	'IATAN 345KV'	396	0.00048	-0.05217	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00032	-0.05201	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00032	-0.05201	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	AEPW	'KNOXLEE 138KV'	225	-0.00025	-0.05144	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	AEPW	'LD13 69KV'	11	-0.00019	-0.0515	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	KACP	'LACYGNE UNIT 345KV'	958	0.00102	-0.05271	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	MIPU	'LAKE ROAD 161KV'	35	0.00041	-0.0521	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	MIPU	'LAKE ROAD 34KV'	92	0.00041	-0.0521	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	EMDE	'LARUSSEL 161KV'	116	0.00019	-0.05188	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	WERE	'LAWRENCE ENERGY CENTER 230KV'	233.4716	0.00066	-0.05235	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	AEPW	'LEBROCK 345KV'	465.0004	-0.00025	-0.05144	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	AEPW	'LIEBERMAN 138KV'	73.99999	-0.00023	-0.05146	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	KACP	'MARSHALL 161KV'	15	0.00035	-0.05204	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	OKGE	'MCCLAIN 138KV'	478	-0.00075	-0.05094	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	KACP	'MONTROSE 161KV'	355.3524	0.00054	-0.05223	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	OKGE	'MUSKOGEE 161KV'	166	-0.00026	-0.05143	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	OKGE	'MUSKOGEE 345KV'	1516	-0.00029	-0.0514	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	OKGE	'MUSTANG 138KV'	365.5	-0.00076	-0.05093	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	OKGE	'MUSTANG 69KV'	106	-0.00077	-0.05092	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	AEPW	'NARROWS 69KV'	22	-0.00032	-0.05137	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	KACY	'NEARMAN 161KV'	77	0.00059	-0.05228	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	KACY	'NEARMAN 20KV'	220	0.00059	-0.05228	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00025	-0.05144	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00011	-0.05158	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	AEPW	'OEC 345KV'	219.0044	-0.00025	-0.05144	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	OKGE	'ONE OAK 345KV'	300	-0.00084	-0.05085	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	EMDE	'OZARK BEACH 161KV'	16	0.00011	-0.0518	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	KACP	'PAOLA COMBUSTION TURBINES 161KV'	63.0542	0.00077	-0.05246	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	AEPW	'PIRKEY GENERATION 138KV'	490	-0.00025	-0.05144	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	KACY	'QUINDARO 161KV'	135.1816	0.00059	-0.05228	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	KACY	'QUINDARO 69KV'	140	0.00059	-0.05228	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	OKGE	'REDBUD 345KV'	250.0063	-0.00071	-0.05098	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	AEPW	'RIVERSIDE STATION 138KV'	640	-0.00031	-0.05138	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	EMDE	'RIVERTON 161KV'	88.89612	0.00019	-0.05188	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	EMDE	'RIVERTON 69KV'	42.51023	0.00018	-0.05187	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	OKGE	'SEMINOLE 138KV'	482.8771	-0.00067	-0.05102	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	OKGE	'SEMINOLE 345KV'	996	-0.00068	-0.05101	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	MIPU	'SIBLEY 161KV'	231.5886	0.00054	-0.05223	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	MIPU	'SIBLEY 69KV'	45.99999	0.00054	-0.05223	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	OKGE	'SMITH COGEN 138KV'	120	-0.00076	-0.05093	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	OKGE	'SOONER 345KV'	513	-0.0012	-0.05049	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	MIPU	'SOUTH HARPER 161KV'	315	0.00068	-0.05237	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	AEPW	'SOUTHWESTERN STATION 138KV'	257	-0.00085	-0.05084	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	EMDE	'STATE LINE 161KV'	503	0.00019	-0.05188	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.00077	-0.05246	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	OKGE	'TINKER 5G 138KV'	31.99805	-0.00072	-0.05097	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	AEPW	'TULSA POWER STATION 138KV'	186	-0.00031	-0.05138	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	AEPW	'WEELETKA 138KV'	84	-0.00045	-0.05124	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	AEPW	'WELSH 345KV'	1044	-0.00028	-0.05141	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	AEPW	'WILKES 138KV'	349.5782	-0.00026	-0.05143	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	AEPW	'WILKES 345KV'	311	-0.00026	-0.05143	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.0005	-0.05226	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	OKGE	'AES 161KV'	320	-0.0002	-0.05256	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	AEPW	'ARSENAL HILL 69KV'	11.21387	-0.00023	-0.05253	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	EMDE	'ASBURY 161KV'	191	0.00031	-0.05307	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	WERE	'BPU - CITY OF MCPHERSON 115KV'	104.9443	-0.00172	-0.05104	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	KACP	'BULL CREEK 161KV'	308	0.0007	-0.05346	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	WERE	'CHANUTE 69KV'	55.637	0.0013	-0.05406	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	WERE	'CITY OF AUGUSTA 69KV'	24	0.00214	-0.0549	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	WERE	'CITY OF BURLINGTON 69KV'	34.061	0.00233	-0.05509	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	WERE	'CITY OF ERIE 69KV'	23.374	0.0013	-0.05406	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	WERE	'CITY OF GIRARD 69KV'	4.592	0.00052	-0.05328	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	KACP	'CITY OF HIGGINSVILLE 69KV'	35	0.00047	-0.05323	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	WERE	'CITY OF IOLA 69KV'	24.471	0.00109	-0.05385	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	WERE	'CITY OF NEODESHA 69KV'	4.495	0.00131	-0.05407	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	WEPL	'CLIFTON 115KV'	58.49084	-0.00023	-0.05253	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	0.00233	-0.05509	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	AEPW	'COGENTRIX 345KV'	200	-0.00031	-0.05245	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	AEPW	'COMANCHE 138KV'	160	-0.00085	-0.05191	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	AEPW	'COMANCHE 69KV'	63	-0.00085	-0.05191	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	AEPW	'EASTMAN 138KV'	355.0058	-0.00025	-0.05251	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	EMDE	'ELK RIVER 345KV'	150	0.00044	-0.0523	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	WERE	'EMPORIA 345KV'	310	0.00078	-0.05354	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	AEPW	'FITZHUGH 161KV'	126	-0.00016	-0.0526	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	AEPW	'FLINT CREEK 161KV'	428	-0.00008	-0.05268	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	OKGE	'FPLWND2 34KV'	23.001	-0.00121	-0.05155	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	AEPW	'FULTON 115KV'	24.99999	-0.00024	-0.05252	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	MIPU	'GREENWOOD 161KV'	169.9976	0.00062	-0.05338	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	KACP	'HAWTHORN 161KV'	769	0.00055	-0.05331	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	OKGE	'HORSESHOE LAKE 138KV'	851.5	-0.00073	-0.05203	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	OKGE	'HORSESHOE LAKE 69KV'	16	-0.00071	-0.05205	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	KACP	'IATAN 345KV'	396	0.00048	-0.05324	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00032	-0.05308	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00032	-0.05308	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	AEPW	'KNOXLEE 138KV'	225	-0.00025	-0.05144	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	AEPW	'LD13 69KV'	11	-0.00019	-0.05257	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	KACP	'LACYGNE UNIT 345KV'	958	0.00102	-0.05378	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	MIPU	'LAKE ROAD 161KV'	35	0.00041	-0.05317	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	MIPU	'LAKE ROAD 34KV'	92	0.00041	-0.05317	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	EMDE	'LARUSSEL 161KV'	116	0.00019	-0.05295	11

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

WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	WERE	'LAWRENCE ENERGY CENTER 230KV'	233.4716	0.00066	-0.05342	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	AEPW	'LEBROCK 345KV'	465.0004	-0.00025	-0.05251	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	AEPW	'LIEBERMAN 138KV'	73.99999	-0.00023	-0.05253	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	KACP	'MARSHALL 161KV'	15	0.00035	-0.05311	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	OKGE	'MCCLAIN 138KV'	478	-0.00075	-0.05201	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	KACP	'MONROSE 161KV'	355.3524	0.00054	-0.05333	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	OKGE	'MUSKOGEE 161KV'	166	-0.00026	-0.0525	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	OKGE	'MUSKOGEE 345KV'	1516	-0.00029	-0.05247	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	OKGE	'MUSTANG 138KV'	365.5	-0.00076	-0.052	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	OKGE	'MUSTANG 69KV'	106	-0.00077	-0.05199	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	AEPW	'NARROWS 69KV'	22	-0.00032	-0.05244	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	KACY	'NEARMAN 161KV'	77	0.00059	-0.05335	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	KACY	'NEARMAN 20KV'	220	0.00059	-0.05335	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00025	-0.05251	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00011	-0.05265	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	AEPW	'OEC 345KV'	219.0044	-0.00025	-0.05251	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	OKGE	'ONE OAK 345KV'	300	-0.00084	-0.05192	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	EMDE	'OZARK BEACH 161KV'	16	0.00011	-0.05287	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	KACP	'PAOLA COMBUSTION TURBINES 161KV'	63.0542	0.00077	-0.05353	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	AEPW	'PIRKEY GENERATION 138KV'	490	-0.00025	-0.05251	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	KACY	'QUINDARO 161KV'	135.1816	0.00059	-0.05335	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	KACY	'QUINDARO 69KV'	140	0.00059	-0.05335	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	OKGE	'REDBUD 345KV'	250.0063	-0.00071	-0.05205	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	AEPW	'RIVERSIDE STATION 138KV'	640	-0.00031	-0.05245	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	EMDE	'RIVERTON 161KV'	88.89612	0.00019	-0.05295	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	EMDE	'RIVERTON 69KV'	42.51023	0.00018	-0.05294	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	OKGE	'SEMINOLE 138KV'	482.8771	-0.00067	-0.05209	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	OKGE	'SEMINOLE 345KV'	996	-0.00068	-0.05208	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	MIPU	'SIBLEY 161KV'	231.5886	0.00054	-0.05333	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	MIPU	'SIBLEY 69KV'	45.99999	0.00054	-0.05333	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	OKGE	'SMITH COGEN 138KV'	120	-0.00076	-0.052	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	WERE	'SMOKEY HILLS 34KV'	152	-0.00145	-0.05131	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	OKGE	'SOONER 138KV'	505	-0.00022	-0.05056	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	OKGE	'SOONER 345KV'	513	-0.00012	-0.05156	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	MIPU	'SOUTH HARPER 161KV'	315	0.00068	-0.05344	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	AEPW	'SOUTHWESTERN STATION 138KV'	257	-0.00085	-0.05191	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	EMDE	'STATE LINE 161KV'	503	0.00019	-0.05295	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.00077	-0.05353	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	OKGE	'TINKER 5G 138KV'	31.99805	-0.00072	-0.05204	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	AEPW	'TULSA POWER STATION 138KV'	186	-0.00031	-0.05245	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	AEPW	'WELEETKA 138KV'	84	-0.00045	-0.05231	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	AEPW	'WELSH 345KV'	1044	-0.00028	-0.05248	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	AEPW	'WILKES 138KV'	349.5782	-0.00026	-0.0525	11
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	AEPW	'WILKES 345KV'	311	-0.00026	-0.0525	11
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	WEPL	'A. M. MULLERGEN GENERATOR 115KV'	63	-0.004	-0.04769	12
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	WERE	'BPU - CITY OF MCPHERSON 115KV'	104.9443	-0.00172	-0.04997	12
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	WERE	'EVANS ENERGY CENTER 138KV'	340	-0.00357	-0.04812	12
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	-0.00256	-0.04913	12
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	WERE	'HUTCHINSON ENERGY CENTER 115KV'	205	-0.00239	-0.0493	12
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	WERE	'SMOKEY HILLS 34KV'	152	-0.00145	-0.05024	12
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	OKGE	'SOONER 138KV'	505	-0.00022	-0.04949	12
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	WEPL	'A. M. MULLERGEN GENERATOR 115KV'	63	-0.004	-0.04876	12
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	WERE	'EVANS ENERGY CENTER 138KV'	340	-0.00357	-0.04919	12
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	-0.00256	-0.0502	12
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	WERE	'HUTCHINSON ENERGY CENTER 115KV'	205	-0.00239	-0.05037	12
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	-0.0072	-0.04449	13
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	WEPL	'JUDSON LARGE 115KV'	105.5424	-0.00725	-0.04444	13
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	-0.0072	-0.04556	13
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	WEPL	'JUDSON LARGE 115KV'	105.5424	-0.00725	-0.04551	13
WEPL	'HARPER 138KV'	17.21	-0.03868	WERE	'CHANUTE 69KV'	55.637	0.0013	-0.03998	14
WEPL	'HARPER 138KV'	17.21	-0.03868	WERE	'CITY OF AUGUSTA 69KV'	24	0.00214	-0.04082	14
WEPL	'HARPER 138KV'	17.21	-0.03868	WERE	'CITY OF BURLINGTON 69KV'	34.061	0.00233	-0.04101	14
WEPL	'HARPER 138KV'	17.21	-0.03868	WERE	'CITY OF ERIE 69KV'	23.374	0.0013	-0.03998	14
WEPL	'HARPER 138KV'	17.21	-0.03868	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	0.00233	-0.04101	14
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.05276	WERE	'CITY OF WINFIELD 69KV'	26.77	-0.01504	-0.03772	15
WEPL	'HARPER 138KV'	17.21	-0.03868	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.0005	-0.03818	15
WEPL	'HARPER 138KV'	17.21	-0.03868	OKGE	'AES 161KV'	320	-0.0002	-0.03848	15
WEPL	'HARPER 138KV'	17.21	-0.03868	AEPW	'ARSENAL HILL 69KV'	11.21387	-0.00023	-0.03845	15
WEPL	'HARPER 138KV'	17.21	-0.03868	EMDE	'ASBURY 161KV'	191	0.00031	-0.03899	15
WEPL	'HARPER 138KV'	17.21	-0.03868	KACP	'BULL CREEK 161KV'	308	0.0007	-0.03938	15
WEPL	'HARPER 138KV'	17.21	-0.03868	KACP	'CITY OF HIGGINSVILLE 69KV'	35	0.00047	-0.03915	15
WEPL	'HARPER 138KV'	17.21	-0.03868	WERE	'CITY OF IOLA 69KV'	24.471	0.00109	-0.03977	15
WEPL	'HARPER 138KV'	17.21	-0.03868	WEPL	'CLIFTON 115KV'	58.49084	-0.00023	-0.03845	15
WEPL	'HARPER 138KV'	17.21	-0.03868	AEPW	'COGENTRIX 345KV'	200	-0.00031	-0.03837	15
WEPL	'HARPER 138KV'	17.21	-0.03868	AEPW	'COMANCHE 138KV'	160	-0.00085	-0.03783	15
WEPL	'HARPER 138KV'	17.21	-0.03868	AEPW	'COMANCHE 69KV'	63	-0.00085	-0.03783	15
WEPL	'HARPER 138KV'	17.21	-0.03868	AEPW	'EASTMAN 138KV'	355.0058	-0.00025	-0.03843	15
WEPL	'HARPER 138KV'	17.21	-0.03868	EMDE	'ELK RIVER 345KV'	150	0.00044	-0.03912	15
WEPL	'HARPER 138KV'	17.21	-0.03868	WERE	'EMPORIA 345KV'	310	0.00078	-0.03946	15
WEPL	'HARPER 138KV'	17.21	-0.03868	AEPW	'FITZHUGH 161KV'	126	-0.00016	-0.03852	15
WEPL	'HARPER 138KV'	17.21	-0.03868	AEPW	'FLINT CREEK 161KV'	428	-0.00008	-0.0386	15
WEPL	'HARPER 138KV'	17.21	-0.03868	OKGE	'FPLWIND2 34KV'	23.001	-0.00121	-0.03747	15
WEPL	'HARPER 138KV'	17.21	-0.03868	AEPW	'FULTON 115KV'	24.99999	-0.00024	-0.03844	15
WEPL	'HARPER 138KV'	17.21	-0.03868	MIPU	'GREENWOOD 161KV'	169.9976	0.00082	-0.0393	15
WEPL	'HARPER 138KV'	17.21	-0.03868	KACP	'HAWTHORN 161KV'	769	0.00055	-0.03923	15
WEPL	'HARPER 138KV'	17.21	-0.03868	OKGE	'HORSESHOE LAKE 138KV'	851.5	-0.00073	-0.03795	15
WEPL	'HARPER 138KV'	17.21	-0.03868	OKGE	'HORSESHOE LAKE 69KV'	16	-0.00071	-0.03797	15
WEPL	'HARPER 138KV'	17.21	-0.03868	KACP	'IATAN 345KV'	396	0.00048	-0.03916	15
WEPL	'HARPER 138KV'	17.21	-0.03868	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00032	-0.039	15
WEPL	'HARPER 138KV'	17.21	-0.03868	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00032	-0.039	15
WEPL	'HARPER 138KV'	17.21	-0.03868	AEPW	'KNOXLEE 138KV'	225	-0.00025	-0.03843	15
WEPL	'HARPER 138KV'	17.21	-0.03868	AEPW	'L&D13 69KV'	11	-0.00019	-0.03849	15
WEPL	'HARPER 138KV'	17.21	-0.03868	KACP	'LACYGNE UNIT 345KV'	958	0.00102	-0.0397	15
WEPL	'HARPER 138KV'	17.21	-0.03868	MIPU	'LAKE ROAD 161KV'	35	0.00041	-0.03909	15
WEPL	'HARPER 138KV'	17.21	-0.03868	MIPU	'LAKE ROAD 34KV'	92	0.00041	-0.03909	15
WEPL	'HARPER 138KV'	17.21	-0.03868	EMDE	'LARUSSEL 161KV'	116	0.00019	-0.03887	15
WEPL	'HARPER 138KV'	17.21	-0.03868	WERE	'LAWRENCE ENERGY CENTER 230KV'	233.4716	0.00066	-0.03934	15
WEPL	'HARPER 138KV'	17.21	-0.03868	AEPW	'LEBROCK 345KV'	465.0004	-0.00025	-0.03843	15
WEPL	'HARPER 138KV'	17.21	-0.03868	AEPW	'LIEBERMAN 138KV'	73.99999	-0.00023	-0.03845	15
WEPL	'HARPER 138KV'	17.21	-0.03868	KACP	'MARSHALL 161KV'	15	0.00035	-0.03903	15
WEPL	'HARPER 138KV'	17.21	-0.03868	OKGE	'MCCLAIN 138KV'	478	-0.00075	-0.03793	15
WEPL	'HARPER 138KV'	17.21	-0.03868	KACP	'MONROSE 161KV'	355.3524	0.00054	-0.03922	15
WEPL	'HARPER 138KV'	17.21	-0.03868	OKGE	'MUSKOGEE 161KV'	166	-0.00026	-0.03842	15

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

WEPL	'HARPER 138KV'	17.21	-0.03868	OKGE	'MUSKOGEE 345KV'	1516	-0.00029	-0.03839	15
WEPL	'HARPER 138KV'	17.21	-0.03868	OKGE	'MUSTANG 138KV'	365.5	-0.00076	-0.03792	15
WEPL	'HARPER 138KV'	17.21	-0.03868	OKGE	'MUSTANG 69KV'	106	-0.00077	-0.03791	15
WEPL	'HARPER 138KV'	17.21	-0.03868	AEPW	'NARROWS 69KV'	22	-0.00032	-0.03836	15
WEPL	'HARPER 138KV'	17.21	-0.03868	KACY	'NEARMAN 161KV'	77	0.00059	-0.03927	15
WEPL	'HARPER 138KV'	17.21	-0.03868	KACY	'NEARMAN 20KV'	220	0.00059	-0.03927	15
WEPL	'HARPER 138KV'	17.21	-0.03868	AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00025	-0.03843	15
WEPL	'HARPER 138KV'	17.21	-0.03868	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00011	-0.03857	15
WEPL	'HARPER 138KV'	17.21	-0.03868	AEPW	'OEC 345KV'	219.0044	-0.00025	-0.03843	15
WEPL	'HARPER 138KV'	17.21	-0.03868	OKGE	'ONE OAK 345KV'	300	-0.00084	-0.03784	15
WEPL	'HARPER 138KV'	17.21	-0.03868	EMDE	'OZARK BEACH 161KV'	16	0.00011	-0.03879	15
WEPL	'HARPER 138KV'	17.21	-0.03868	KACP	'PAOLA COMBUSTION TURBINES 161KV'	63.0542	0.00077	-0.03945	15
WEPL	'HARPER 138KV'	17.21	-0.03868	AEPW	'PIRKEY GENERATION 138KV'	490	-0.00025	-0.03843	15
WEPL	'HARPER 138KV'	17.21	-0.03868	KACY	'QUINDARO 161KV'	135.1816	0.00059	-0.03927	15
WEPL	'HARPER 138KV'	17.21	-0.03868	KACY	'QUINDARO 69KV'	140	0.00059	-0.03927	15
WEPL	'HARPER 138KV'	17.21	-0.03868	OKGE	'REDBUD 345KV'	250.0063	-0.00071	-0.03797	15
WEPL	'HARPER 138KV'	17.21	-0.03868	AEPW	'RIVERSIDE STATION 138KV'	640	-0.00031	-0.03837	15
WEPL	'HARPER 138KV'	17.21	-0.03868	EMDE	'RIVERTON 161KV'	88.89612	0.00019	-0.03887	15
WEPL	'HARPER 138KV'	17.21	-0.03868	EMDE	'RIVERTON 69KV'	42.51023	0.00018	-0.03886	15
WEPL	'HARPER 138KV'	17.21	-0.03868	OKGE	'SEMINOLE 138KV'	482.8771	-0.00067	-0.03801	15
WEPL	'HARPER 138KV'	17.21	-0.03868	OKGE	'SEMINOLE 345KV'	996	-0.00068	-0.038	15
WEPL	'HARPER 138KV'	17.21	-0.03868	MIPU	'SIBLEY 161KV'	231.5886	0.00054	-0.03922	15
WEPL	'HARPER 138KV'	17.21	-0.03868	MIPU	'SIBLEY 69KV'	45.99999	0.00054	-0.03922	15
WEPL	'HARPER 138KV'	17.21	-0.03868	OKGE	'SMITH COGEN 138KV'	120	-0.00076	-0.03792	15
WEPL	'HARPER 138KV'	17.21	-0.03868	OKGE	'SOONER 345KV'	513	-0.0012	-0.03748	15
WEPL	'HARPER 138KV'	17.21	-0.03868	MIPU	'SOUTH HARPER 161KV'	315	0.00068	-0.03936	15
WEPL	'HARPER 138KV'	17.21	-0.03868	AEPW	'SOUTHWESTERN STATION 138KV'	257	-0.00085	-0.03783	15
WEPL	'HARPER 138KV'	17.21	-0.03868	EMDE	'STATE LINE 161KV'	503	0.00019	-0.03887	15
WEPL	'HARPER 138KV'	17.21	-0.03868	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.00077	-0.03945	15
WEPL	'HARPER 138KV'	17.21	-0.03868	OKGE	'TINKER SG 138KV'	31.99805	-0.00072	-0.03796	15
WEPL	'HARPER 138KV'	17.21	-0.03868	AEPW	'TULSA POWER STATION 138KV'	186	-0.00031	-0.03837	15
WEPL	'HARPER 138KV'	17.21	-0.03868	AEPW	'WEELETKA 138KV'	84	-0.00045	-0.03823	15
WEPL	'HARPER 138KV'	17.21	-0.03868	AEPW	'WELSH 345KV'	1044	-0.00028	-0.0384	15
WEPL	'HARPER 138KV'	17.21	-0.03868	AEPW	'WILKES 138KV'	349.5782	-0.00026	-0.03842	15
WEPL	'HARPER 138KV'	17.21	-0.03868	AEPW	'WILKES 345KV'	311	-0.00026	-0.03842	15
WERE	'CITY OF MULVANE 69KV'	7.5	-0.05169	WERE	'CITY OF WINFIELD 69KV'	26.77	-0.01504	-0.03665	16
WEPL	'HARPER 138KV'	17.21	-0.03868	WERE	'BPU - CITY OF MCPHERSON 115KV'	104.9443	-0.00172	-0.03696	16
WEPL	'HARPER 138KV'	17.21	-0.03868	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	-0.00256	-0.03612	16
WEPL	'HARPER 138KV'	17.21	-0.03868	WERE	'HUTCHINSON ENERGY CENTER 115KV'	205	-0.00239	-0.03629	16
WEPL	'HARPER 138KV'	17.21	-0.03868	WERE	'SMOKEY HILLS 34KV'	152	-0.00145	-0.03723	16
WEPL	'HARPER 138KV'	17.21	-0.03868	OKGE	'SOONER 138KV'	505	-0.00022	-0.03648	16
WEPL	'HARPER 138KV'	17.21	-0.03868	WEPL	'A. M. MULLERGEN GENERATOR 115KV'	63	-0.004	-0.03468	17
WEPL	'HARPER 138KV'	17.21	-0.03868	WERE	'EVANS ENERGY CENTER 138KV'	340	-0.00357	-0.03511	17
WEPL	'HARPER 138KV'	17.21	-0.03868	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	-0.0072	-0.03148	18
WEPL	'HARPER 138KV'	17.21	-0.03868	WEPL	'JUDSON LARGE 115KV'	105.5424	-0.00725	-0.03143	18

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

Upgrade: LINWOOD - MCWILLIE STREET 138KV CKT 1
 Limiting Facility: LINWOOD - MCWILLIE STREET 138KV CKT 1
 Direction: From->To
 Line Outage: HARTS ISLAND - SOUTH SHREVEPORT 138KV CKT 1
 Flowgate: 53422534281534145344611407SP
 Date Redispatch Needed: 6/1/07 - 10/1/07
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount	Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
1158760	5.8	5.8	AEPW	'ARSENAL HILL 69KV'	99	-0.36037	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.39297	15
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	CELE	'NATCHITOCHES 69KV'	16.89907	0.02366	-0.38403	15
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00292	-0.35745	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	CELE	'ACADIA 138KV'	306.4439	0.00547	-0.36584	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	OKGE	'AES 161KV'	320	-0.00276	-0.35761	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	WFEC	'ANADARKO 138KV'	286.6512	-0.00549	-0.35488	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	EMDE	'ASBURY 161KV'	191	-0.00311	-0.35726	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	LEPA	'BAYOU RAMOS 138KV'	27.82327	0.00484	-0.36621	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SWPA	'BEAVER 161KV'	137.2096	-0.003	-0.35737	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SPS	'BLACKHAWK 115KV'	220	-0.00451	-0.35586	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	GRDA	'BOOMER 69KV'	24	-0.00454	-0.35583	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	-0.00298	-0.35739	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SWPA	'BULL SHOALS 161KV'	278.7	-0.00193	-0.35844	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SPS	'CAPROCK 115KV'	8	-0.00468	-0.35569	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SWPA	'CARTHAGE 69KV'	30	-0.00302	-0.35735	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	WERE	'CHANUTE 69KV'	56.723	-0.0033	-0.35707	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00347	-0.3569	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	WERE	'CITY OF BURLINGTON 69KV'	34.753	-0.0032	-0.35717	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	WERE	'CITY OF ERIE 69KV'	23.27	-0.0033	-0.35707	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	LEPA	'CITY OF HOUMA SUB 115KV'	84	0.00377	-0.36414	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	WERE	'CITY OF IOLA 69KV'	24.267	-0.00324	-0.35713	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	WERE	'CITY OF MULVANE 69KV'	8.288	-0.00349	-0.35688	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	WERE	'CITY OF WINFIELD 69KV'	27.962	-0.00385	-0.35652	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SWPA	'CLARENCE CANNON DAM 69KV'	39.2	-0.00175	-0.35862	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	-0.0032	-0.35717	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	AEPW	'COGENTRIX 345KV'	300	-0.00416	-0.35621	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	AEPW	'COMANCHE 138KV'	160	-0.00553	-0.35484	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	AEPW	'COMANCHE 69KV'	63	-0.00554	-0.35483	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SPS	'CUNNINGHAM 115KV'	181	-0.00472	-0.35565	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SPS	'CUNNINGHAM 230KV'	306	-0.00472	-0.35565	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SPS	'CZ 69KV'	39	-0.00458	-0.35579	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	CELE	'D.G. HUNTER POWER STATION 138KV'	63.0963	0.013	-0.37337	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	EMDE	'ELK RIVER 345KV'	150	-0.00336	-0.35701	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SWPA	'EUFAULA 138KV'	51	-0.00387	-0.3565	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SWPA	'EUFAULA 161KV'	69.6	-0.00386	-0.35651	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	CELE	'EVANGELINE 138KV'	141.1926	0.00939	-0.36976	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	CELE	'EVANGELINE 230KV'	173.2889	0.01003	-0.3704	16
			AEPW	'ARSENAL HILL 69KV'	99	-0.36037	WERE	'EVANS ENERGY CENTER 138KV'	548.9756	-0.00351	-0.35686	16

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

AEPW	'ARSENAL HILL 69KV'	99	-0.36037	AEPW	'FITZHUGH 161KV'	30.99999	-0.00241	-0.35796	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	AEPW	'FLINT CREEK 161KV'	420	-0.00346	-0.35691	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	OKGE	'FPLWIND2 34KV'	102	-0.00497	-0.3554	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	WERE	'GILL ENERGY CENTER 138KV'	171	-0.0035	-0.35687	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	WERE	'GILL ENERGY CENTER 69KV'	45	-0.00351	-0.35686	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	GRDA	'GRDA1 161KV'	190	-0.00369	-0.35668	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	GRDA	'GRDA1 345KV'	220	-0.00368	-0.35669	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SWPA	'GREERS FERRY 161KV'	93.4	-0.00116	-0.35921	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SPS	'HARRINGTON 230KV'	1066	-0.0045	-0.35587	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	OKGE	'HORSESHOE LAKE 138KV'	411.9146	-0.00523	-0.35514	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	OKGE	'HORSESHOE LAKE 69KV'	16	-0.00523	-0.35514	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SPS	'HUBRCO2 69KV'	11	-0.00451	-0.35586	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	-0.00301	-0.35736	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	-0.00301	-0.35736	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SWPA	'INDEPENDENCE 161KV'	13	-0.0011	-0.35927	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	LEPA	'IRION SUB 230KV'	24	0.00367	-0.36404	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00285	-0.35752	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00285	-0.35752	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SPS	'JONES 230KV'	486	-0.00478	-0.35559	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SWPA	'JONESBORO 161KV'	43	-0.00089	-0.35948	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SWPA	'KENNETT 69KV'	7.2	-0.00088	-0.35949	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	GRDA	'KERR 115KV'	13.5	-0.00366	-0.35671	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	GRDA	'KERR 161KV'	13.5	-0.00367	-0.3567	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SWPA	'KEYSTONE DAM 161KV'	150.2	-0.00412	-0.35625	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	AEPW	'L&D13 69KV'	11	-0.00278	-0.35759	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	EMDE	'LARUSSEL 161KV'	106.5474	-0.00295	-0.35742	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	WERE	'LAWRENCE ENERGY CENTER 230KV'	231.1075	-0.00282	-0.35755	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SPS	'LP-BRND2 69KV'	20	-0.00479	-0.35558	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SPS	'LP-MACK2 69KV'	60	-0.00479	-0.35558	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SPS	'MADOX 115KV'	164.8623	-0.00472	-0.35565	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SWPA	'MALDEN 69KV'	7	-0.00089	-0.35948	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	AEPW	'MATTISON 161KV'	160	-0.00343	-0.35694	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	OKGE	'MCCLAIN 138KV'	478	-0.00532	-0.35505	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SPS	'MOORE COUNTY 115KV'	48	-0.00449	-0.35588	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	WFEC	'MORLND 138KV'	280.5074	-0.00497	-0.3554	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	OKGE	'MUSKOGEE 161KV'	166	-0.00381	-0.35656	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	OKGE	'MUSKOGEE 345KV'	1516	-0.00413	-0.35624	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SPS	'MUSTANG 115KV'	300	-0.00472	-0.35565	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	OKGE	'MUSTANG 138KV'	365.5	-0.00524	-0.35513	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SPS	'MUSTANG 230KV'	360	-0.00472	-0.35565	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	OKGE	'MUSTANG 69KV'	106	-0.00524	-0.35513	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SPS	'NICHOLS 115KV'	147	-0.00453	-0.35584	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SPS	'NICHOLS 230KV'	147	-0.00451	-0.35586	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00386	-0.35651	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00384	-0.35653	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	AEPW	'OEC 345KV'	369	-0.00404	-0.35633	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	OMPA	'OMPA-KAW 69KV'	19.7	-0.00451	-0.35586	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	OMPA	'OMPA-PONCA CITY 69KV'	111.5817	-0.00451	-0.35586	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	OKGE	'ONE OAK 345KV'	75	-0.00511	-0.35526	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SWPA	'OZARK 161KV'	130.6	-0.00241	-0.35796	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	EMDE	'OZARK BEACH 161KV'	16	-0.00251	-0.35786	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SWPA	'PARAGOULD 69KV'	5.5	-0.00089	-0.35948	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	GRDA	'PENSACOLA 161KV'	33	-0.00355	-0.35682	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	GRDA	'PENSACOLA 69KV'	29.29053	-0.00354	-0.35683	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SPS	'PLANTX 115KV'	205	-0.00468	-0.35569	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SPS	'PLANTX 230KV'	189	-0.00468	-0.35569	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SWPA	'POPLAR BLUFF 69KV'	6	-0.00104	-0.35933	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	OKGE	'REDBUD 345KV'	100	-0.00509	-0.35528	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	AEPW	'RIVERSIDE STATION 138KV'	482	-0.00417	-0.3562	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	EMDE	'RIVERTON 161KV'	72	-0.00317	-0.3572	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	EMDE	'RIVERTON 69KV'	44.49932	-0.00316	-0.35721	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SWPA	'ROBERT S. KERR 161KV'	314.2	-0.00304	-0.35733	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	CELE	'RODEMACHER 230KV'	651	0.0143	-0.37467	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	GRDA	'SALINA 161KV'	27.19927	-0.00367	-0.3567	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SPS	'SAN JUAN 230KV'	12	-0.00469	-0.35568	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	OKGE	'SEMINOLE 138KV'	476.8412	-0.00568	-0.35469	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	OKGE	'SEMINOLE 345KV'	996	-0.00569	-0.35468	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SPS	'SIDRCH 69KV'	20	-0.00451	-0.35586	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SWPA	'SIKESTON 161KV'	235	-0.00091	-0.35946	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	WFEC	'SLEEPING BEAR 138KV'	80	-0.00497	-0.3554	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	OKGE	'SLEEPING BEAR 34KV'	120	-0.00498	-0.35539	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	OKGE	'SMITH COGEN 138KV'	120	-0.00526	-0.35511	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	OKGE	'SOONER 138KV'	505	-0.00468	-0.35569	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	OKGE	'SOONER 345KV'	513	-0.00482	-0.35555	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	AEPW	'SOUTHWESTERN STATION 138KV'	230.5	-0.00547	-0.3549	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	EMDE	'STATE LINE 161KV'	503	-0.00314	-0.35723	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SPS	'STEER WATER 115KV'	8	-0.00455	-0.35582	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	CELE	'TECHE 138KV'	225.4748	0.00554	-0.36591	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00283	-0.35754	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SPS	'TOLK 230KV'	1027.253	-0.00469	-0.35568	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SWPA	'TRUMAN 161KV'	102	-0.0023	-0.35807	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	AEPW	'TULSA POWER STATION 138KV'	152	-0.00413	-0.35624	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	WERE	'WACO 138KV'	17.96	-0.0035	-0.35687	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	LEPA	'WATERLOO SUB 230KV'	6	0.00369	-0.36406	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	AEPW	'WEATHERFORD 34KV'	148	-0.00519	-0.35518	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SWPA	'WEBBERS FALLS 161KV'	39	-0.00371	-0.35666	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	AEPW	'WELLETKA 138KV'	70	-0.00504	-0.35533	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SPS	'WILWIND 230KV'	16	-0.00451	-0.35586	16
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SWPA	'BROKEN BOW 138KV'	93.4	-0.01139	-0.34898	17
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	SWPA	'DENISON 138KV'	59.40001	-0.00677	-0.3536	17
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	AEPW	'EASTMAN 138KV'	355	-0.0127	-0.34767	17
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	WFEC	'HUGO 138KV'	450	-0.00965	-0.35072	17
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	AEPW	'KNOXLEE 138KV'	154.8708	-0.00881	-0.35156	17
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	AEPW	'LEBROCK 345KV'	465	-0.0179	-0.34247	17
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	AEPW	'NARROWS 69KV'	22	-0.01482	-0.34655	17
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	AEPW	'PIRKEY GENERATION 138KV'	475	-0.02418	-0.33619	17
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	AEPW	'WELSH 345KV'	990	-0.01226	-0.34811	17
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	AEPW	'WILKES 345KV'	253	-0.01614	-0.34423	17
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	AEPW	'WILKES 138KV'	192.2979	-0.02818	-0.33219	18
AEPW	'LIEBERMAN 138KV'	154	-0.21155	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.24415	24
AEPW	'LIEBERMAN 138KV'	154	-0.21155	CELE	'NATCHITOCHEES 69KV'	16.89907	0.02366	-0.23521	25
AEPW	'LIEBERMAN 138KV'	154	-0.21155	CELE	'D.G. HUNTER POWER STATION 138KV'	63.0963	0.013	-0.22455	26
AEPW	'LIEBERMAN 138KV'	154	-0.21155	CELE	'EVANGELINE 138KV'	141.1926	0.00939	-0.22094	26

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

AEPW	'LIEBERMAN 138KV'	154	-0.21155	CELE	'EVANGELINE 230KV'	173.2889	0.01003	-0.22158	26
AEPW	'LIEBERMAN 138KV'	154	-0.21155	CELE	'RODEMACHER 230KV'	651	0.0143	-0.22585	26
AEPW	'LIEBERMAN 138KV'	154	-0.21155	CELE	'ACADIA 138KV'	306.4439	0.00547	-0.21702	27
AEPW	'LIEBERMAN 138KV'	154	-0.21155	LEPA	'BAYOU RAMOS 138KV'	27.82327	0.00484	-0.21639	27
AEPW	'LIEBERMAN 138KV'	154	-0.21155	LEPA	'CITY OF HOUMA SUB 115KV'	84	0.00377	-0.21532	27
AEPW	'LIEBERMAN 138KV'	154	-0.21155	LEPA	'IRION SUB 230KV'	24	0.00367	-0.21522	27
AEPW	'LIEBERMAN 138KV'	154	-0.21155	CELE	'TECHE 138KV'	225.4748	0.00554	-0.21709	27
AEPW	'LIEBERMAN 138KV'	154	-0.21155	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00292	-0.20863	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	OKGE	'AES 161KV'	320	-0.00276	-0.20879	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	WFEC	'ANADARKO 138KV'	286.6512	-0.00549	-0.20606	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	EMDE	'ASBURY 161KV'	191	-0.00311	-0.20844	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SWPA	'BEAVER 161KV'	137.2096	-0.003	-0.20855	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SPS	'BLACKHAWK 115KV'	220	-0.00451	-0.20704	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	GRDA	'BOOMER 69KV'	24	-0.00454	-0.20701	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	-0.00298	-0.20857	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SWPA	'BULL SHOALS 161KV'	278.7	-0.00193	-0.20962	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SWPA	'CARTHAGE 69KV'	30	-0.00302	-0.20853	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	WERE	'CHANUTE 69KV'	56.723	-0.0033	-0.20825	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00347	-0.20808	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	WERE	'CITY OF BURLINGTON 69KV'	34.753	-0.0032	-0.20835	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	WERE	'CITY OF ERIE 69KV'	23.27	-0.0033	-0.20825	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	WERE	'CITY OF IOLA 69KV'	24.267	-0.00324	-0.20831	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	WERE	'CITY OF WINFIELD 69KV'	27.962	-0.00385	-0.2077	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SWPA	'CLARENCE CANNON DAM 69KV'	39.2	-0.00175	-0.2098	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	-0.0032	-0.20835	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	AEPW	'COGENTRIX 345KV'	300	-0.00416	-0.20739	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	AEPW	'COMANCHE 138KV'	160	-0.00553	-0.20602	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	AEPW	'COMANCHE 69KV'	63	-0.00554	-0.20601	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SPS	'CUNNINGHAM 115KV'	181	-0.00472	-0.20683	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SPS	'CUNNINGHAM 230KV'	306	-0.00472	-0.20683	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SPS	'CZ 69KV'	39	-0.00458	-0.20697	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	EMDE	'ELK RIVER 345KV'	150	-0.00336	-0.20819	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SWPA	'EUFAULA 138KV'	51	-0.00387	-0.20768	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SWPA	'EUFAULA 161KV'	69.6	-0.00386	-0.20769	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	WERE	'EVANS ENERGY CENTER 138KV'	548.9756	-0.00351	-0.20804	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	AEPW	'FITZHUGH 161KV'	30.99999	-0.00241	-0.20914	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	AEPW	'FLINT CREEK 161KV'	420	-0.00346	-0.20809	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	OKGE	'FLWIND2 34KV'	102	-0.00497	-0.20658	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	WERE	'GILL ENERGY CENTER 138KV'	171	-0.0035	-0.20805	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	WERE	'GILL ENERGY CENTER 69KV'	45	-0.00351	-0.20804	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	GRDA	'GRDA1 161KV'	190	-0.00369	-0.20786	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	GRDA	'GRDA1 345KV'	220	-0.00368	-0.20787	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SWPA	'GREENS FERRY 161KV'	93.4	-0.00116	-0.21039	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SPS	'HARRINGTON 230KV'	1066	-0.0045	-0.20705	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	OKGE	'HORSESHOE LAKE 138KV'	411.9146	-0.00523	-0.20632	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	OKGE	'HORSESHOE LAKE 69KV'	16	-0.00523	-0.20632	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SPS	'HUBRCO2 69KV'	11	-0.00451	-0.20704	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	-0.00301	-0.20854	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	-0.00301	-0.20854	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SWPA	'INDEPENDENCE 161KV'	13	-0.0011	-0.21045	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00285	-0.2087	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00285	-0.2087	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SPS	'JONES 230KV'	486	-0.00478	-0.20677	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SWPA	'JONESBORO 161KV'	43	-0.00089	-0.21066	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	GRDA	'KERR 115KV'	13.5	-0.00366	-0.20789	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	GRDA	'KERR 161KV'	13.5	-0.00367	-0.20788	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SWPA	'KEYSTONE DAM 161KV'	150.2	-0.00412	-0.20743	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	AEPW	'L&D13 69KV'	11	-0.00278	-0.20877	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	EMDE	'LARUSSEL 161KV'	106.5474	-0.00295	-0.2086	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	WERE	'LAWRENCE ENERGY CENTER 230KV'	231.1075	-0.00282	-0.20873	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SPS	'LP-BRND2 69KV'	20	-0.00479	-0.20676	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SPS	'LP-MACK2 69KV'	60	-0.00479	-0.20676	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SPS	'MADOX 115KV'	164.8623	-0.00472	-0.20683	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	AEPW	'MATTISON 161KV'	160	-0.00343	-0.20812	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	OKGE	'MCCLAIN 138KV'	478	-0.00532	-0.20623	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SPS	'MOORE COUNTY 115KV'	48	-0.00449	-0.20706	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	WFEC	'MORLND 138KV'	280.5074	-0.00497	-0.20658	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	OKGE	'MUSKOGEE 161KV'	166	-0.00381	-0.20774	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	OKGE	'MUSKOGEE 345KV'	1516	-0.00413	-0.20742	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SPS	'MUSTANG 115KV'	300	-0.00472	-0.20683	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	OKGE	'MUSTANG 138KV'	365.5	-0.00524	-0.20631	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SPS	'MUSTANG 230KV'	360	-0.00472	-0.20683	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	OKGE	'MUSTANG 69KV'	106	-0.00524	-0.20631	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SPS	'NICHOLS 115KV'	147	-0.00453	-0.20702	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SPS	'NICHOLS 230KV'	147	-0.00451	-0.20704	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00386	-0.20769	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00384	-0.20771	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	AEPW	'OEC 345KV'	369	-0.00404	-0.20751	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	OMPA	'OMPA-KAW 69KV'	19.7	-0.00451	-0.20704	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	OMPA	'OMPA-PONCA CITY 69KV'	111.5817	-0.00451	-0.20704	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	OKGE	'ONE OAK 345KV'	75	-0.00511	-0.20644	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SWPA	'OZARK 161KV'	130.6	-0.00241	-0.20914	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	EMDE	'OZARK BEACH 161KV'	16	-0.00251	-0.20904	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	GRDA	'PENSACOLA 161KV'	33	-0.00355	-0.208	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	GRDA	'PENSACOLA 69KV'	29.29053	-0.00354	-0.20801	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SPS	'PLANTX 115KV'	205	-0.00468	-0.20687	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SPS	'PLANTX 230KV'	189	-0.00468	-0.20687	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	OKGE	'REDBUD 345KV'	100	-0.00509	-0.20646	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	AEPW	'RIVERSIDE STATION 138KV'	482	-0.00417	-0.20738	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	EMDE	'RIVERTON 161KV'	72	-0.00317	-0.20838	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	EMDE	'RIVERTON 69KV'	44.49932	-0.00316	-0.20839	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SWPA	'ROBERT S. KERR 161KV'	314.2	-0.00304	-0.20851	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	GRDA	'SALINA 161KV'	27.19927	-0.00367	-0.20788	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SPS	'SAN JUAN 230KV'	12	-0.00469	-0.20686	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	OKGE	'SEMINOLE 138KV'	476.8412	-0.00568	-0.20587	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	OKGE	'SEMINOLE 345KV'	996	-0.00569	-0.20586	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SPS	'SIDRCH 69KV'	20	-0.00451	-0.20704	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SWPA	'SIKESTON 161KV'	235	-0.00091	-0.21064	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	WFEC	'SLEEPING BEAR 138KV'	80	-0.00497	-0.20658	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	OKGE	'SLEEPING BEAR 34KV'	120	-0.00498	-0.20657	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	OKGE	'SMITH COGEN 138KV'	120	-0.00526	-0.20629	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	OKGE	'SOONER 138KV'	505	-0.00468	-0.20687	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	OKGE	'SOONER 345KV'	513	-0.00482	-0.20673	28

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

AEPW	'LIEBERMAN 138KV'	154	-0.21155	AEPW	'SOUTHWESTERN STATION 138KV'	230.5	-0.00547	-0.20608	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	EMDE	'STATE LINE 161KV'	503	-0.00314	-0.20841	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00283	-0.20872	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SPS	'TOLK 230KV'	1027.253	-0.00469	-0.20686	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SWPA	'TRUMAN 161KV'	102	-0.0023	-0.20925	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	AEPW	'TULSA POWER STATION 138KV'	152	-0.00413	-0.20742	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	WERE	'WACO 138KV'	17.96	-0.0035	-0.20805	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	AEPW	'WEATHERFORD 34KV'	148	-0.00519	-0.20636	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SWPA	'WEBBERS FALLS 161KV'	39	-0.00371	-0.20784	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	AEPW	'WEELETKA 138KV'	70	-0.00504	-0.20651	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SPS	'WILWIND 230KV'	16	-0.00451	-0.20704	28
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SWPA	'BROKEN BOW 138KV'	93.4	-0.01139	-0.20016	29
AEPW	'LIEBERMAN 138KV'	154	-0.21155	SWPA	'DENISON 138KV'	59.40001	-0.00677	-0.20478	29
AEPW	'LIEBERMAN 138KV'	154	-0.21155	AEPW	'EASTMAN 138KV'	355	-0.0127	-0.19885	29
AEPW	'LIEBERMAN 138KV'	154	-0.21155	WFEC	'HUGO 138KV'	450	-0.00965	-0.2019	29
AEPW	'LIEBERMAN 138KV'	154	-0.21155	AEPW	'KNOXLEE 138KV'	154.8708	-0.00881	-0.20274	29
AEPW	'LIEBERMAN 138KV'	154	-0.21155	AEPW	'WELSH 345KV'	990	-0.01226	-0.19929	29
AEPW	'LIEBERMAN 138KV'	154	-0.21155	AEPW	'LEBROCK 345KV'	465	-0.0179	-0.19365	30
AEPW	'LIEBERMAN 138KV'	154	-0.21155	AEPW	'NARROWS 69KV'	22	-0.01482	-0.19673	30
AEPW	'LIEBERMAN 138KV'	154	-0.21155	AEPW	'WILKES 345KV'	253	-0.01614	-0.19541	30
AEPW	'LIEBERMAN 138KV'	154	-0.21155	AEPW	'PIRKEY GENERATION 138KV'	475	-0.02418	-0.18737	31
AEPW	'LIEBERMAN 138KV'	154	-0.21155	AEPW	'WILKES 138KV'	192.2979	-0.02818	-0.18337	32
AEPW	'ARSENAL HILL 69KV'	99	-0.36037	AEPW	'LIEBERMAN 138KV'	73.99999	-0.21155	-0.14882	39
AEPW	'WILKES 138KV'	270.7021	-0.02818	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.06078	96
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.024	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.0566	103
AEPW	'PIRKEY GENERATION 138KV'	40	-0.02418	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.05678	103
AEPW	'LEBROCK 345KV'	232	-0.0179	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.0505	116
AEPW	'WILKES 345KV'	58	-0.01614	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.04874	120
AEPW	'TURK 138KV'	608	-0.01579	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.04839	121
AEPW	'EASTMAN 138KV'	130.01	-0.0127	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.0453	129
AEPW	'WELSH 345KV'	54	-0.01226	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.04486	130
AEPW	'WILKES 138KV'	270.7021	-0.02818	CELE	'RODEMACHER 230KV'	651	0.0143	-0.04248	137
AEPW	'KNOXLEE 138KV'	268.1292	-0.00881	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.04141	141
AEPW	'WILKES 138KV'	270.7021	-0.02818	CELE	'D.G. HUNTER POWER STATION 138KV'	63.0963	0.013	-0.04118	142
AEPW	'KIOWA 345KV'	1348	-0.00674	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.03934	148
WFEC	'ANADARKO 138KV'	136	-0.00549	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.03809	153
WFEC	'ANADARKO 69KV'	76	-0.00546	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.03806	153
WFEC	'BLUE CANYON 138KV'	151.2	-0.00547	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.03807	153
AEPW	'SOUTHWESTERN STATION 138KV'	528.5	-0.00547	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.03807	153
AEPW	'WILKES 138KV'	270.7021	-0.02818	CELE	'EVANGELINE 230KV'	173.2889	0.01003	-0.03821	153
OKGE	'HORSESHOE LAKE 138KV'	439.5854	-0.00523	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.03783	154
OKGE	'TINKER 5G 138KV'	62	-0.00536	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.03796	154
OKGE	'ONE OAK 345KV'	261	-0.00511	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.03771	155
OKGE	'REDBUD 345KV'	1100	-0.00509	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.03769	155
AEPW	'WEELETKA 138KV'	72	-0.00504	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.03764	155
AEPW	'WILKES 138KV'	270.7021	-0.02818	CELE	'EVANGELINE 138KV'	141.1926	0.00939	-0.03757	155
SPS	'LP-HOLL2 69KV'	132	-0.00479	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.03739	156
OKGE	'RED ROCK 345KV'	1050	-0.00482	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.03742	156
SPS	'NICHOLS 115KV'	66.00001	-0.00453	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.03713	157
SPS	'NICHOLS 230KV'	97	-0.00451	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.03711	157
OMPA	'OMPA-PONCA CITY 69KV'	74.73508	-0.00451	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.03711	157
SPS	'TOLK 230KV'	52.74677	-0.00469	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.03729	157
AEPW	'COGENTRIX 345KV'	594	-0.00416	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.03676	159
AEPW	'OEC 345KV'	1778.03	-0.00404	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.03664	159
AEPW	'RIVER SIDE 138KV'	172	-0.00417	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.03677	159
AEPW	'RIVERSIDE STATION 138KV'	240	-0.00417	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.03677	159
AEPW	'TULSA POWER STATION 138KV'	142	-0.00413	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.03673	159
AEPW	'TULSA POWER STATION 69KV'	80	-0.00413	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.03673	159
AEPW	'MID-CONTINENT 138KV'	142.11	-0.00372	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.03632	161
GRDA	'SALINA 161KV'	70.80074	-0.00367	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.03627	161
AEPW	'MATTISON 161KV'	350	-0.00343	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.03603	162
EMDE	'RIVERTON 161KV'	250	-0.00317	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.03577	163
EMDE	'STATE LINE 161KV'	103	-0.00314	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.03574	163
WERE	'EMPORIA 345KV'	828	-0.003	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.0356	164
WERE	'HUTCHINSON ENERGY CENTER 115KV'	141	-0.00301	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.03561	164
EMDE	'LARUSSEL 161KV'	189.4526	-0.00295	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.03555	164
SWPA	'ROBERT S. KERR 161KV'	74.5	-0.00304	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.03564	164
AEPW	'FITZHUGH 161KV'	95.00001	-0.00241	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.03501	167
SWPA	'OZARK 161KV'	64.90001	-0.00241	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.03501	167
SWPA	'TRUMAN 161KV'	78.00002	-0.0023	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.0349	167
SWPA	'BULL SHOALS 161KV'	110.9	-0.00193	CELE	'DOLET HILLS 345KV'	360	0.0326	-0.03453	169
AEPW	'WILKES 138KV'	270.7021	-0.02818	CELE	'ACADIA 138KV'	306.4439	0.00547	-0.03365	173
AEPW	'WILKES 138KV'	270.7021	-0.02818	CELE	'TECHE 138KV'	225.4748	0.00554	-0.03372	173
AEPW	'LEBROCK 345KV'	232	-0.0179	CELE	'RODEMACHER 230KV'	651	0.0143	-0.0322	181
AEPW	'WILKES 138KV'	270.7021	-0.02818	LEPA	'CITY OF HOUMA SUB 115KV'	84	0.00377	-0.03195	183
AEPW	'LEBROCK 345KV'	232	-0.0179	CELE	'D.G. HUNTER POWER STATION 138KV'	63.0963	0.013	-0.0309	189
AEPW	'TURK 138KV'	608	-0.01579	CELE	'RODEMACHER 230KV'	651	0.0143	-0.03009	194

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

Upgrade: MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1
 Limiting Facility: MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1
 Direction: To->From
 Line Outage: GRD OAK - PLEASANT HILL 345KV CKT 1
 Flowgate: 59210592591591985920013107SP
 Date Redispatch Needed: 6/1/07 - 10/1/07 or EOC of upgrade 8/1/07
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount	Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
1162686		2.1										
			MIPU	'ARIES 161KV'	595	-0.0451	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.44293	5
			SWPA	'BEAVER 161KV'	27.89772	0.00873	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.3891	5
			SWPA	'BROKEN BOW 138KV'	16.6	0.00945	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.38838	5
			WERE	'BROWN COUNTY 115KV'	5.5	0.0084	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.38943	5
			KACP	'BULL CREEK 161KV'	65	-0.00404	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.40187	5
			SWPA	'BULL SHOALS 161KV'	110.9	0.00383	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.394	5

Table 6 - Potential Redispach Relief Pairs to Prevent Deferral of Service

SWPA	'CARTHAGE 69KV'	1.999998	0.00855	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.38928	5
SWPA	'CLARENCE CANNON DAM 69KV'	8.799999	-0.0087	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.40653	5
SWPA	'DENISON 138KV'	10.59999	0.01263	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.3852	5
SWPA	'EUFAULA 138KV'	9.000004	0.01053	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.3873	5
SWPA	'EUFAULA 161KV'	12.4	0.01053	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.3873	5
KACP	'GARDNER 161KV'	11	-0.00656	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.40439	5
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.44594	5
SWPA	'GREERS FERRY 161KV'	16.6	0.00326	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.39457	5
WERE	'HOLTON 115KV'	19.8	0.01167	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.38616	5
SWPA	'INDEPENDENCE 161KV'	13	0.00273	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.3951	5
SWPA	'JONESBORO 161KV'	20	0.00108	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.39675	5
SWPA	'KENNETT 69KV'	21.8	0.00008	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.39775	5
MIPU	'LAKE ROAD 161KV'	91	-0.01573	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.41356	5
SWPA	'MALDEN 69KV'	10	-0.00027	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.3981	5
KACP	'MARSHALL 161KV'	54.1	-0.01571	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.41354	5
KACP	'MONROSE 161KV'	24.42657	-0.02083	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.41866	5
MIPU	'NEVADA 69KV'	20.3	-0.01068	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.40851	5
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.42689	5
KACP	'NORTHEAST 161KV'	174	-0.02906	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.42689	5
SWPA	'OZARK 161KV'	64.90001	0.00733	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.3905	5
SWPA	'PARAGOULD 69KV'	12	0.00066	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.39717	5
SWPA	'PIGGOTT 69KV'	7.5	-0.00005	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.39788	5
SWPA	'POPLAR BLUFF 69KV'	7	-0.0006	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.39843	5
SWPA	'ROBERT S. KERR 161KV'	74.5	0.00885	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.38898	5
MIPU	'SIBLEY 161KV'	16.46988	-0.0335	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.43133	5
WERE	'SOUTH SENECA 115KV'	16.7	0.0093	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.38853	5
INDN	'SUB H 69KV'	9.92986	-0.03262	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.43045	5
INDN	'SUB I 69KV'	38	-0.03284	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.43067	5
INDN	'SUBSTATION J 69KV'	30	-0.03277	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.4306	5
SWPA	'TRUMAN 161KV'	78.00002	-0.01315	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.41098	5
MIPU	'TWA 161KV'	32.1	-0.02448	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.42231	5
SWPA	'WEBBERS FALLS 161KV'	30	0.01064	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.38719	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	0.02144	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.37639	6
WERE	'BPU - CITY OF MCPHERSON 115KV'	21.02441	0.01961	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.37822	6
WERE	'CHANUTE 69KV'	31.077	0.01724	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.38059	6
WERE	'CITY OF AUGUSTA 69KV'	10.141	0.02609	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.37174	6
WERE	'CITY OF BURLINGTON 69KV'	21.247	0.03392	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.38391	6
WERE	'CITY OF ERIE 69KV'	3.259999	0.01724	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.38059	6
WERE	'CITY OF FREDONIA 69KV'	9.173	0.01916	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.37867	6
WERE	'CITY OF GIRARD 69KV'	5.911	0.01528	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.38257	6
WERE	'CITY OF IOLA 69KV'	13.361	0.01572	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.38211	6
WERE	'CITY OF MULVANE 69KV'	7.502	0.02658	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.37125	6
WERE	'CITY OF OSAGE CITY 115KV'	8.85	0.02691	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.37092	6
WERE	'CITY OF WINFIELD 69KV'	12.038	0.02338	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.37445	6
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	0.02209	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.37574	6
WERE	'EMPORIA 345KV'	828	0.03315	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.36468	6
WERE	'EVANS ENERGY CENTER 138KV'	8	0.02694	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.37089	6
WERE	'GETTY 69KV'	35	0.02581	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.37202	6
WERE	'GILL ENERGY CENTER 138KV'	49	0.02641	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.37142	6
WERE	'GILL ENERGY CENTER 69KV'	8	0.02642	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.37141	6
WERE	'HUTCHINSON ENERGY CENTER 115KV'	141	0.01929	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.37854	6
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	0.01929	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.37854	6
WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.01916	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.37867	6
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.01758	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.38025	6
SWPA	'KEYSTONE DAM 161KV'	50	0.01342	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.38441	6
WERE	'LAWRENCE ENERGY CENTER 230KV'	43.97229	0.02047	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.37736	6
WERE	'OXFORD 138KV'	3	0.02412	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.37371	6
WERE	'ST JOHN 115KV'	7.5	0.0172	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.38063	6
WERE	'TECUMSEH ENERGY CENTER 115KV'	3	0.02065	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.37718	6
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	0.02048	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.37735	6
MIPU	'RALPH GREEN 69KV'	73.7	0.07367	MIPU	'SOUTH HARPER 161KV'	252.4078	0.39783	-0.32416	7
MIPU	'ARIES 161KV'	595	-0.0451	KACP	'LACYGNE UNIT 345KV'	958	0.04156	-0.08666	24
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	KACP	'LACYGNE UNIT 345KV'	958	0.04156	-0.08967	24
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	WERE	'CITY OF BURLINGTON 69KV'	34.753	0.03392	-0.08203	26
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.03392	-0.08203	26
MIPU	'ARIES 161KV'	595	-0.0451	WERE	'CITY OF BURLINGTON 69KV'	34.753	0.03392	-0.07902	27
MIPU	'ARIES 161KV'	595	-0.0451	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.03392	-0.07902	27
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	WERE	'EVANS ENERGY CENTER 138KV'	565	0.02694	-0.07505	28
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	WERE	'GILL ENERGY CENTER 138KV'	171	0.02641	-0.07452	28
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	WERE	'GILL ENERGY CENTER 69KV'	75	0.02642	-0.07453	28
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	WERE	'WACO 138KV'	17.96	0.02646	-0.07457	28
MIPU	'SIBLEY 161KV'	16.46988	-0.0335	KACP	'LACYGNE UNIT 345KV'	958	0.04156	-0.07506	28
INDN	'SUB I 69KV'	38	-0.03284	KACP	'LACYGNE UNIT 345KV'	958	0.04156	-0.0744	28
INDN	'SUBSTATION J 69KV'	30	-0.03277	KACP	'LACYGNE UNIT 345KV'	958	0.04156	-0.07433	28
MIPU	'ARIES 161KV'	595	-0.0451	WERE	'EVANS ENERGY CENTER 138KV'	565	0.02694	-0.07204	29
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	WERE	'CITY OF AUGUSTA 69KV'	24	0.02609	-0.0742	29
INDN	'SUB H 69KV'	9.92986	-0.03262	KACP	'LACYGNE UNIT 345KV'	958	0.04156	-0.07418	29
MIPU	'ARIES 161KV'	595	-0.0451	WERE	'CITY OF AUGUSTA 69KV'	24	0.02609	-0.07191	30
MIPU	'ARIES 161KV'	595	-0.0451	WERE	'GILL ENERGY CENTER 138KV'	171	0.02641	-0.07151	30
MIPU	'ARIES 161KV'	595	-0.0451	WERE	'GILL ENERGY CENTER 69KV'	75	0.02642	-0.07152	30
MIPU	'ARIES 161KV'	595	-0.0451	WERE	'WACO 138KV'	17.96	0.02646	-0.07156	30
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.02144	-0.06955	30
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	WERE	'CITY OF WINFIELD 69KV'	27.962	0.02338	-0.07149	30
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	KACP	'LACYGNE UNIT 345KV'	958	0.04156	-0.07082	30
KACP	'NORTHEAST 161KV'	174	-0.02906	KACP	'LACYGNE UNIT 345KV'	958	0.04156	-0.07082	30
MIPU	'ARIES 161KV'	595	-0.0451	WERE	'CITY OF WINFIELD 69KV'	27.962	0.02338	-0.06848	31
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	WERE	'BPU - CITY OF MCPHERSON 115KV'	152.9756	0.01961	-0.06772	31
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	0.01929	-0.0674	31
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	0.01929	-0.0674	31
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01916	-0.06727	31
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	WERE	'LAWRENCE ENERGY CENTER 230KV'	225.0277	0.02047	-0.06858	31
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.02065	-0.06876	31
MIPU	'SIBLEY 161KV'	16.46988	-0.0335	WERE	'CITY OF BURLINGTON 69KV'	34.753	0.03392	-0.06742	31
MIPU	'SIBLEY 161KV'	16.46988	-0.0335	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.03392	-0.06742	31
MIPU	'ARIES 161KV'	595	-0.0451	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.02144	-0.06654	32
MIPU	'ARIES 161KV'	595	-0.0451	WERE	'LAWRENCE ENERGY CENTER 230KV'	225.0277	0.02047	-0.06557	32
MIPU	'ARIES 161KV'	595	-0.0451	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.02065	-0.06575	32
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	WERE	'CHANUTE 69KV'	56.723	0.01724	-0.06535	32
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	WERE	'CITY OF ERIE 69KV'	23.27	0.01724	-0.06535	32
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01758	-0.06569	32
INDN	'SUB I 69KV'	38	-0.03284	WERE	'CITY OF BURLINGTON 69KV'	34.753	0.03392	-0.06676	32
INDN	'SUB I 69KV'	38	-0.03284	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.03392	-0.06676	32
INDN	'SUBSTATION J 69KV'	30	-0.03277	WERE	'CITY OF BURLINGTON 69KV'	34.753	0.03392	-0.06669	32

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

INDN	'SUBSTATION J 69KV'	30	-0.03277	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.03392	-0.06669	32
MIPU	'TWA 161KV'	32.1	-0.02448	KACP	'LACYGNE UNIT 345KV'	958	0.04156	-0.06604	32
MIPU	'ARIES 161KV'	595	-0.0451	WERE	'BPU - CITY OF MCPHERSON 115KV'	152.9756	0.01961	-0.06471	33
MIPU	'ARIES 161KV'	595	-0.0451	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	0.01929	-0.06439	33
MIPU	'ARIES 161KV'	595	-0.0451	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	0.01929	-0.06439	33
MIPU	'ARIES 161KV'	595	-0.0451	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01916	-0.06426	33
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	WERE	'CITY OF IOLA 69KV'	24.267	0.01572	-0.06383	33
MIPU	'ARIES 161KV'	595	-0.0451	WERE	'CHANUTE 69KV'	56.723	0.01724	-0.06234	34
MIPU	'ARIES 161KV'	595	-0.0451	WERE	'CITY OF ERIE 69KV'	23.27	0.01724	-0.06234	34
MIPU	'ARIES 161KV'	595	-0.0451	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01758	-0.06268	34
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	SWPA	'KEYSTONE DAM 161KV'	150.2	0.01342	-0.06153	34
KACP	'MONTROSE 161KV'	24.22657	-0.02083	KACP	'LACYGNE UNIT 345KV'	958	0.04156	-0.06239	34
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	WERE	'CITY OF BURLINGTON 69KV'	34.753	0.03392	-0.06298	34
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.03392	-0.06298	34
KACP	'NORTHEAST 161KV'	174	-0.02906	WERE	'CITY OF BURLINGTON 69KV'	34.753	0.03392	-0.06298	34
KACP	'NORTHEAST 161KV'	174	-0.02906	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.03392	-0.06298	34
MIPU	'ARIES 161KV'	595	-0.0451	WERE	'CITY OF IOLA 69KV'	24.267	0.01572	-0.06082	35
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	SWPA	'DENISON 138KV'	59.40001	0.01263	-0.06074	35
MIPU	'SIBLEY 161KV'	16.46988	-0.0335	WERE	'EVANS ENERGY CENTER 138KV'	565	0.02694	-0.06044	35
MIPU	'SIBLEY 161KV'	16.46988	-0.0335	WERE	'GILL ENERGY CENTER 138KV'	171	0.02641	-0.05991	35
MIPU	'SIBLEY 161KV'	16.46988	-0.0335	WERE	'GILL ENERGY CENTER 69KV'	75	0.02642	-0.05992	35
MIPU	'SIBLEY 161KV'	16.46988	-0.0335	WERE	'WACO 138KV'	17.96	0.02646	-0.05996	35
INDN	'SUB I 69KV'	38	-0.03284	WERE	'EVANS ENERGY CENTER 138KV'	565	0.02694	-0.05978	35
INDN	'SUBSTATION J 69KV'	30	-0.03277	WERE	'EVANS ENERGY CENTER 138KV'	565	0.02694	-0.05971	35
MIPU	'ARIES 161KV'	595	-0.0451	SWPA	'KEYSTONE DAM 161KV'	150.2	0.01342	-0.05852	36
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	SWPA	'EUFAULA 138KV'	51	0.01053	-0.05864	36
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	SWPA	'EUFAULA 161KV'	69.6	0.01053	-0.05864	36
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	SWPA	'WEBBERS FALLS 161KV'	39	0.01064	-0.05875	36
MIPU	'SIBLEY 161KV'	16.46988	-0.0335	WERE	'CITY OF AUGUSTA 69KV'	24	0.02609	-0.05959	36
INDN	'SUB I 69KV'	38	-0.03284	WERE	'CITY OF AUGUSTA 69KV'	24	0.02609	-0.05893	36
INDN	'SUB I 69KV'	38	-0.03284	WERE	'GILL ENERGY CENTER 138KV'	171	0.02641	-0.05925	36
INDN	'SUB I 69KV'	38	-0.03284	WERE	'GILL ENERGY CENTER 69KV'	75	0.02642	-0.05926	36
INDN	'SUB I 69KV'	38	-0.03284	WERE	'WACO 138KV'	17.96	0.02646	-0.0593	36
INDN	'SUBSTATION J 69KV'	30	-0.03277	WERE	'CITY OF AUGUSTA 69KV'	24	0.02609	-0.05886	36
INDN	'SUBSTATION J 69KV'	30	-0.03277	WERE	'GILL ENERGY CENTER 138KV'	171	0.02641	-0.05918	36
INDN	'SUBSTATION J 69KV'	30	-0.03277	WERE	'GILL ENERGY CENTER 69KV'	75	0.02642	-0.05919	36
INDN	'SUBSTATION J 69KV'	30	-0.03277	WERE	'WACO 138KV'	17.96	0.02646	-0.05923	36
MIPU	'TWA 161KV'	32.1	-0.02448	WERE	'CITY OF BURLINGTON 69KV'	34.753	0.03392	-0.0584	36
MIPU	'TWA 161KV'	32.1	-0.02448	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.03392	-0.0584	36
MIPU	'ARIES 161KV'	595	-0.0451	SWPA	'DENISON 138KV'	59.40001	0.01263	-0.05773	37
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	SWPA	'BEAVER 161KV'	137.7023	0.00873	-0.05684	37
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	SWPA	'BROKEN BOW 138KV'	93.4	0.00945	-0.05756	37
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	SWPA	'CARTHAGE 69KV'	30	0.00855	-0.05666	37
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	SWPA	'ROBERT S. KERR 161KV'	314.2	0.00885	-0.05696	37
MIPU	'LAKE ROAD 161KV'	91	-0.01573	KACP	'LACYGNE UNIT 345KV'	958	0.04156	-0.05729	37
KACP	'MARSHALL 161KV'	54.1	-0.01571	KACP	'LACYGNE UNIT 345KV'	958	0.04156	-0.05727	37
MIPU	'SIBLEY 161KV'	16.46988	-0.0335	WERE	'CITY OF WINFIELD 69KV'	27.962	0.02338	-0.05688	37
MIPU	'ARIES 161KV'	595	-0.0451	SWPA	'EUFAULA 138KV'	51	0.01053	-0.05563	38
MIPU	'ARIES 161KV'	595	-0.0451	SWPA	'EUFAULA 161KV'	69.6	0.01053	-0.05563	38
MIPU	'ARIES 161KV'	595	-0.0451	SWPA	'WEBBERS FALLS 161KV'	39	0.01064	-0.05574	38
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	SWPA	'OZARK 161KV'	130.6	0.00733	-0.05544	38
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	WERE	'CITY OF AUGUSTA 69KV'	24	0.02609	-0.05515	38
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	WERE	'EVANS ENERGY CENTER 138KV'	565	0.02694	-0.056	38
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	WERE	'GILL ENERGY CENTER 138KV'	171	0.02641	-0.05547	38
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	WERE	'GILL ENERGY CENTER 69KV'	75	0.02642	-0.05548	38
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	WERE	'WACO 138KV'	17.96	0.02646	-0.05552	38
KACP	'NORTHEAST 161KV'	174	-0.02906	WERE	'CITY OF AUGUSTA 69KV'	24	0.02609	-0.05515	38
KACP	'NORTHEAST 161KV'	174	-0.02906	WERE	'EVANS ENERGY CENTER 138KV'	565	0.02694	-0.056	38
KACP	'NORTHEAST 161KV'	174	-0.02906	WERE	'GILL ENERGY CENTER 138KV'	171	0.02641	-0.05547	38
KACP	'NORTHEAST 161KV'	174	-0.02906	WERE	'GILL ENERGY CENTER 69KV'	75	0.02642	-0.05548	38
KACP	'NORTHEAST 161KV'	174	-0.02906	WERE	'WACO 138KV'	17.96	0.02646	-0.05552	38
INDN	'SUB I 69KV'	38	-0.03284	WERE	'CITY OF WINFIELD 69KV'	27.962	0.02338	-0.05622	38
INDN	'SUBSTATION J 69KV'	30	-0.03277	WERE	'CITY OF WINFIELD 69KV'	27.962	0.02338	-0.05615	38
MIPU	'ARIES 161KV'	595	-0.0451	SWPA	'BEAVER 161KV'	137.7023	0.00873	-0.05383	39
MIPU	'ARIES 161KV'	595	-0.0451	SWPA	'BROKEN BOW 138KV'	93.4	0.00945	-0.05455	39
MIPU	'ARIES 161KV'	595	-0.0451	SWPA	'CARTHAGE 69KV'	30	0.00855	-0.05365	39
MIPU	'ARIES 161KV'	595	-0.0451	SWPA	'ROBERT S. KERR 161KV'	314.2	0.00885	-0.05395	39
KACP	'MONTROSE 161KV'	24.22657	-0.02083	WERE	'CITY OF BURLINGTON 69KV'	34.753	0.03392	-0.05475	39
KACP	'MONTROSE 161KV'	24.22657	-0.02083	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.03392	-0.05475	39
MIPU	'SIBLEY 161KV'	16.46988	-0.0335	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.02144	-0.05494	39
MIPU	'SIBLEY 161KV'	16.46988	-0.0335	WERE	'LAWRENCE ENERGY CENTER 230KV'	225.0277	0.02047	-0.05397	39
MIPU	'SIBLEY 161KV'	16.46988	-0.0335	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.02065	-0.05415	39
INDN	'SUB I 69KV'	38	-0.03284	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.02144	-0.05428	39
INDN	'SUBSTATION J 69KV'	30	-0.03277	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.02144	-0.05421	39
SWPA	'TRUMAN 161KV'	78.00002	-0.01315	KACP	'LACYGNE UNIT 345KV'	958	0.04156	-0.05471	39
MIPU	'ARIES 161KV'	595	-0.0451	SWPA	'OZARK 161KV'	130.6	0.00733	-0.05243	40
MIPU	'NEVADA 69KV'	20.3	-0.01068	KACP	'LACYGNE UNIT 345KV'	958	0.04156	-0.05224	40
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	WERE	'CITY OF WINFIELD 69KV'	27.962	0.02338	-0.05244	40
KACP	'NORTHEAST 161KV'	174	-0.02906	WERE	'CITY OF WINFIELD 69KV'	27.962	0.02338	-0.05244	40
MIPU	'SIBLEY 161KV'	16.46988	-0.0335	WERE	'BPU - CITY OF MCPHERSON 115KV'	152.9756	0.01961	-0.05311	40
MIPU	'SIBLEY 161KV'	16.46988	-0.0335	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	0.01929	-0.05279	40
MIPU	'SIBLEY 161KV'	16.46988	-0.0335	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	0.01929	-0.05279	40
MIPU	'SIBLEY 161KV'	16.46988	-0.0335	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01916	-0.05266	40
INDN	'SUB I 69KV'	38	-0.03284	WERE	'BPU - CITY OF MCPHERSON 115KV'	152.9756	0.01961	-0.05245	40
INDN	'SUB I 69KV'	38	-0.03284	WERE	'LAWRENCE ENERGY CENTER 230KV'	225.0277	0.02047	-0.05331	40
INDN	'SUB I 69KV'	38	-0.03284	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.02065	-0.05349	40
INDN	'SUBSTATION J 69KV'	30	-0.03277	WERE	'BPU - CITY OF MCPHERSON 115KV'	152.9756	0.01961	-0.05238	40
INDN	'SUBSTATION J 69KV'	30	-0.03277	WERE	'LAWRENCE ENERGY CENTER 230KV'	225.0277	0.02047	-0.05324	40
INDN	'SUBSTATION J 69KV'	30	-0.03277	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.02065	-0.05342	40
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	SWPA	'BULL SHOALS 161KV'	278.7	0.00383	-0.05194	41
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	SWPA	'GREERS FERRY 161KV'	93.4	0.00326	-0.05137	41
MIPU	'SIBLEY 161KV'	16.46988	-0.0335	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01758	-0.05108	41
INDN	'SUB I 69KV'	38	-0.03284	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	0.01929	-0.05213	41
INDN	'SUB I 69KV'	38	-0.03284	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	0.01929	-0.05213	41
INDN	'SUB I 69KV'	38	-0.03284	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01916	-0.052	41
INDN	'SUBSTATION J 69KV'	30	-0.03277	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	0.01929	-0.05206	41
INDN	'SUBSTATION J 69KV'	30	-0.03277	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	0.01929	-0.05206	41
INDN	'SUBSTATION J 69KV'	30	-0.03277	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01916	-0.05193	41
MIPU	'TWA 161KV'	32.1	-0.02448	WERE	'EVANS ENERGY CENTER 138KV'	565	0.02694	-0.05142	41
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.02144	-0.05005	42
KACP	'NORTHEAST 161KV'	174	-0.02906	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.02144	-0.05005	42
MIPU	'SIBLEY 161KV'	16.46988	-0.0335	WERE	'CHANUTE 69KV'	56.723	0.01724	-0.05074	42
MIPU	'SIBLEY 161KV'	16.46988	-0.0335	WERE	'CITY OF ERIE 69KV'	23.27	0.01724	-0.05074	42

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

INDN	'SUB I 69KV'	38	-0.03284	WERE	'CHANUTE 69KV'	56.723	0.01724	-0.05008	42
INDN	'SUB I 69KV'	38	-0.03284	WERE	'CITY OF ERIE 69KV'	23.27	0.01724	-0.05008	42
INDN	'SUB I 69KV'	38	-0.03284	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01758	-0.05042	42
INDN	'SUBSTATION J 69KV'	30	-0.03277	WERE	'CHANUTE 69KV'	56.723	0.01724	-0.05001	42
INDN	'SUBSTATION J 69KV'	30	-0.03277	WERE	'CITY OF ERIE 69KV'	23.27	0.01724	-0.05001	42
INDN	'SUBSTATION J 69KV'	30	-0.03277	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01758	-0.05035	42
MIPU	'TWA 161KV'	32.1	-0.02448	WERE	'CITY OF AUGUSTA 69KV'	24	0.02609	-0.05057	42
MIPU	'TWA 161KV'	32.1	-0.02448	WERE	'GILL ENERGY CENTER 138KV'	171	0.02641	-0.05089	42
MIPU	'TWA 161KV'	32.1	-0.02448	WERE	'GILL ENERGY CENTER 69KV'	75	0.02642	-0.0509	42
MIPU	'TWA 161KV'	32.1	-0.02448	WERE	'WACO 138KV'	17.96	0.02646	-0.05094	42
MIPU	'ARIES 161KV'	595	-0.0451	SWPA	'BULL SHOALS 161KV'	278.7	0.00383	-0.04893	43
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	SWPA	'JONESBORO 161KV'	43	0.00108	-0.04919	43
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	0.00149	-0.0496	43
MIPU	'LAKE ROAD 161KV'	91	-0.01573	WERE	'CITY OF BURLINGTON 69KV'	34.753	0.03392	-0.04965	43
MIPU	'LAKE ROAD 161KV'	91	-0.01573	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.03392	-0.04965	43
KACP	'MARSHALL 161KV'	54.1	-0.01571	WERE	'CITY OF BURLINGTON 69KV'	34.753	0.03392	-0.04963	43
KACP	'MARSHALL 161KV'	54.1	-0.01571	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.03392	-0.04963	43
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	WERE	'BPU - CITY OF MCPHERSON 115KV'	152.9756	0.01961	-0.04867	43
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	WERE	'LAWRENCE ENERGY CENTER 230KV'	225.0277	0.02047	-0.04953	43
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.02065	-0.04971	43
KACP	'NORTHEAST 161KV'	174	-0.02906	WERE	'BPU - CITY OF MCPHERSON 115KV'	152.9756	0.01961	-0.04867	43
KACP	'NORTHEAST 161KV'	174	-0.02906	WERE	'LAWRENCE ENERGY CENTER 230KV'	225.0277	0.02047	-0.04953	43
KACP	'NORTHEAST 161KV'	174	-0.02906	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.02065	-0.04971	43
MIPU	'SIBLEY 161KV'	16.46988	-0.0335	WERE	'CITY OF IOLA 69KV'	24.267	0.01572	-0.04922	43
MIPU	'ARIES 161KV'	595	-0.0451	SWPA	'GREERS FERRY 161KV'	93.4	0.00326	-0.04836	44
KACP	'MONTROSE 161KV'	24.42657	-0.02083	WERE	'EVANS ENERGY CENTER 138KV'	565	0.02694	-0.04777	44
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	0.01929	-0.04835	44
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	0.01929	-0.04835	44
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01916	-0.04822	44
KACP	'NORTHEAST 161KV'	174	-0.02906	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	0.01929	-0.04835	44
KACP	'NORTHEAST 161KV'	174	-0.02906	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	0.01929	-0.04835	44
KACP	'NORTHEAST 161KV'	174	-0.02906	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01916	-0.04822	44
INDN	'SUB I 69KV'	38	-0.03284	WERE	'CITY OF IOLA 69KV'	24.267	0.01572	-0.04856	44
INDN	'SUBSTATION J 69KV'	30	-0.03277	WERE	'CITY OF IOLA 69KV'	24.267	0.01572	-0.04849	44
MIPU	'TWA 161KV'	32.1	-0.02448	WERE	'CITY OF WINFIELD 69KV'	27.962	0.02338	-0.04786	44
MIPU	'ARIES 161KV'	595	-0.0451	KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	0.00149	-0.04659	45
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	SWPA	'SIKESTON 161KV'	235	-0.00095	-0.04716	45
KACP	'MONTROSE 161KV'	24.42657	-0.02083	WERE	'CITY OF AUGUSTA 69KV'	24	0.02609	-0.04692	45
KACP	'MONTROSE 161KV'	24.42657	-0.02083	WERE	'GILL ENERGY CENTER 138KV'	171	0.02641	-0.04724	45
KACP	'MONTROSE 161KV'	24.42657	-0.02083	WERE	'GILL ENERGY CENTER 69KV'	75	0.02642	-0.04725	45
KACP	'MONTROSE 161KV'	24.42657	-0.02083	WERE	'WACO 138KV'	17.96	0.02646	-0.04729	45
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01758	-0.04664	45
KACP	'NORTHEAST 161KV'	174	-0.02906	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01758	-0.04664	45
MIPU	'SIBLEY 161KV'	16.46988	-0.0335	SWPA	'KEYSTONE DAM 161KV'	150.2	0.01342	-0.04692	45
SWPA	'TRUMAN 161KV'	78.00002	-0.01315	WERE	'CITY OF BURLINGTON 69KV'	34.753	0.03392	-0.04707	45
SWPA	'TRUMAN 161KV'	78.00002	-0.01315	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.03392	-0.04707	45
MIPU	'ARIES 161KV'	595	-0.0451	SWPA	'JONESBORO 161KV'	43	0.00108	-0.04618	46
KACP	'BULL CREEK 161KV'	65	-0.00404	KACP	'LACYGNE UNIT 345KV'	958	0.04156	-0.0456	46
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	WERE	'CHANUTE 69KV'	56.723	0.01724	-0.0463	46
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	WERE	'CITY OF ERIE 69KV'	23.27	0.01724	-0.0463	46
KACP	'NORTHEAST 161KV'	174	-0.02906	WERE	'CHANUTE 69KV'	56.723	0.01724	-0.0463	46
KACP	'NORTHEAST 161KV'	174	-0.02906	WERE	'CITY OF ERIE 69KV'	23.27	0.01724	-0.0463	46
MIPU	'SIBLEY 161KV'	16.46988	-0.0335	SWPA	'DENISON 138KV'	59.40001	0.01263	-0.04613	46
INDN	'SUB I 69KV'	38	-0.03284	SWPA	'KEYSTONE DAM 161KV'	150.2	0.01342	-0.04626	46
INDN	'SUBSTATION J 69KV'	30	-0.03277	SWPA	'KEYSTONE DAM 161KV'	150.2	0.01342	-0.04619	46
MIPU	'TWA 161KV'	32.1	-0.02448	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.02144	-0.04592	46
MIPU	'NEVADA 69KV'	20.3	-0.01068	WERE	'CITY OF BURLINGTON 69KV'	34.753	0.03392	-0.0446	47
MIPU	'NEVADA 69KV'	20.3	-0.01068	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.03392	-0.0446	47
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	WERE	'CITY OF IOLA 69KV'	24.267	0.01572	-0.04478	47
KACP	'NORTHEAST 161KV'	174	-0.02906	WERE	'CITY OF IOLA 69KV'	24.267	0.01572	-0.04478	47
INDN	'SUB I 69KV'	38	-0.03284	SWPA	'DENISON 138KV'	59.40001	0.01263	-0.04547	47
INDN	'SUBSTATION J 69KV'	30	-0.03277	SWPA	'DENISON 138KV'	59.40001	0.01263	-0.0454	47
MIPU	'TWA 161KV'	32.1	-0.02448	WERE	'LAWRENCE ENERGY CENTER 230KV'	225.0277	0.02047	-0.04495	47
MIPU	'TWA 161KV'	32.1	-0.02448	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.02065	-0.04513	47
MIPU	'ARIES 161KV'	595	-0.0451	SWPA	'SIKESTON 161KV'	235	-0.00095	-0.04415	48
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	KACP	'BULL CREEK 161KV'	308	-0.00404	-0.04407	48
KACP	'MONTROSE 161KV'	24.42657	-0.02083	WERE	'CITY OF WINFIELD 69KV'	27.962	0.02338	-0.04421	48
MIPU	'SIBLEY 161KV'	16.46988	-0.0335	SWPA	'EUFAULA 138KV'	51	0.01053	-0.04403	48
MIPU	'SIBLEY 161KV'	16.46988	-0.0335	SWPA	'EUFAULA 161KV'	69.6	0.01053	-0.04403	48
MIPU	'SIBLEY 161KV'	16.46988	-0.0335	SWPA	'WEBBERS FALLS 161KV'	39	0.01064	-0.04414	48
MIPU	'TWA 161KV'	32.1	-0.02448	WERE	'BPU - CITY OF MCPHERSON 115KV'	152.9756	0.01961	-0.04409	48
MIPU	'TWA 161KV'	32.1	-0.02448	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	0.01929	-0.04377	48
MIPU	'TWA 161KV'	32.1	-0.02448	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	0.01929	-0.04377	48
MIPU	'TWA 161KV'	32.1	-0.02448	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01916	-0.04364	48
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	KACP	'IATAN 345KV'	396	-0.00514	-0.04297	49
MIPU	'SIBLEY 161KV'	16.46988	-0.0335	SWPA	'BROKEN BOW 138KV'	93.4	0.00945	-0.04295	49
INDN	'SUB I 69KV'	38	-0.03284	SWPA	'EUFAULA 138KV'	51	0.01053	-0.04337	49
INDN	'SUB I 69KV'	38	-0.03284	SWPA	'EUFAULA 161KV'	69.6	0.01053	-0.04337	49
INDN	'SUB I 69KV'	38	-0.03284	SWPA	'WEBBERS FALLS 161KV'	39	0.01064	-0.04348	49
INDN	'SUBSTATION J 69KV'	30	-0.03277	SWPA	'EUFAULA 138KV'	51	0.01053	-0.0433	49
INDN	'SUBSTATION J 69KV'	30	-0.03277	SWPA	'EUFAULA 161KV'	69.6	0.01053	-0.0433	49
INDN	'SUBSTATION J 69KV'	30	-0.03277	SWPA	'WEBBERS FALLS 161KV'	39	0.01064	-0.04341	49
MIPU	'LAKE ROAD 161KV'	91	-0.01573	WERE	'EVANS ENERGY CENTER 138KV'	565	0.02694	-0.04267	50
MIPU	'LAKE ROAD 161KV'	91	-0.01573	WERE	'GILL ENERGY CENTER 138KV'	171	0.02641	-0.04214	50
MIPU	'LAKE ROAD 161KV'	91	-0.01573	WERE	'GILL ENERGY CENTER 69KV'	75	0.02642	-0.04215	50
MIPU	'LAKE ROAD 161KV'	91	-0.01573	WERE	'WACO 138KV'	17.96	0.02646	-0.04219	50
KACP	'MARSHALL 161KV'	54.1	-0.01571	WERE	'EVANS ENERGY CENTER 138KV'	565	0.02694	-0.04265	50
KACP	'MARSHALL 161KV'	54.1	-0.01571	WERE	'GILL ENERGY CENTER 138KV'	171	0.02641	-0.04212	50
KACP	'MARSHALL 161KV'	54.1	-0.01571	WERE	'GILL ENERGY CENTER 69KV'	75	0.02642	-0.04213	50
KACP	'MARSHALL 161KV'	54.1	-0.01571	WERE	'WACO 138KV'	17.96	0.02646	-0.04217	50
KACP	'MONTROSE 161KV'	24.42657	-0.02083	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.02144	-0.04227	50
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	SWPA	'KEYSTONE DAM 161KV'	150.2	0.01342	-0.04248	50
KACP	'NORTHEAST 161KV'	174	-0.02906	SWPA	'KEYSTONE DAM 161KV'	150.2	0.01342	-0.04248	50
INDN	'SUB I 69KV'	38	-0.03284	SWPA	'BROKEN BOW 138KV'	93.4	0.00945	-0.04229	50
INDN	'SUBSTATION J 69KV'	30	-0.03277	SWPA	'BROKEN BOW 138KV'	93.4	0.00945	-0.04222	50
MIPU	'TWA 161KV'	32.1	-0.02448	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01758	-0.04206	50
SWPA	'KENNETT 69KV'	21.8	0.00008	KACP	'LACYGNE UNIT 345KV'	958	0.04156	-0.04148	51
MIPU	'LAKE ROAD 161KV'	91	-0.01573	WERE	'CITY OF AUGUSTA 69KV'	24	0.02609	-0.04182	51
KACP	'MARSHALL 161KV'	54.1	-0.01571	WERE	'CITY OF AUGUSTA 69KV'	24	0.02609	-0.0418	51
KACP	'MONTROSE 161KV'	24.42657	-0.02083	WERE	'LAWRENCE ENERGY CENTER 230KV'	225.0277	0.02047	-0.0413	51
KACP	'MONTROSE 161KV'	24.42657	-0.02083	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.02065	-0.04148	51
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	SWPA	'DENISON 138KV'	59.40001	0.01263	-0.04169	51
KACP	'NORTHEAST 161KV'	174	-0.02906	SWPA	'DENISON 138KV'	59.40001	0.01263	-0.04169	51

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

INDN	'SUB I 69KV'	38	-0.03284	SWPA	'BEAVER 161KV'	137.7023	0.00873	-0.04157	51
INDN	'SUB I 69KV'	38	-0.03284	SWPA	'CARTHAGE 69KV'	30	0.00855	-0.04139	51
INDN	'SUB I 69KV'	38	-0.03284	SWPA	'ROBERT S. KERR 161KV'	314.2	0.00885	-0.04169	51
INDN	'SUBSTATION J 69KV'	30	-0.03277	SWPA	'BEAVER 161KV'	137.7023	0.00873	-0.0415	51
INDN	'SUBSTATION J 69KV'	30	-0.03277	SWPA	'CARTHAGE 69KV'	30	0.00855	-0.04132	51
INDN	'SUBSTATION J 69KV'	30	-0.03277	SWPA	'ROBERT S. KERR 161KV'	314.2	0.00885	-0.04162	51
MIPU	'TWA 161KV'	32.1	-0.02448	WERE	'CHANUTE 69KV'	56.723	0.01724	-0.04172	51
MIPU	'TWA 161KV'	32.1	-0.02448	WERE	'CITY OF ERIE 69KV'	23.27	0.01724	-0.04172	51
MIPU	'ARIES 161KV'	595	-0.0451	KACP	'BULL CREEK 161KV'	308	-0.00404	-0.04106	52
SWPA	'JONESBORO 161KV'	20	0.00108	KACP	'LACYGNE UNIT 345KV'	958	0.04156	-0.04048	52
KACP	'MONTROSE 161KV'	24.42657	-0.02083	WERE	'BPU - CITY OF MCPHERSON 115KV'	152.9756	0.01961	-0.04044	52
MIPU	'ARIES 161KV'	595	-0.0451	KACP	'IATAN 345KV'	386	-0.00514	-0.03996	53
KACP	'MONTROSE 161KV'	24.42657	-0.02083	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	0.01929	-0.04012	53
KACP	'MONTROSE 161KV'	24.42657	-0.02083	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	0.01929	-0.04012	53
KACP	'MONTROSE 161KV'	24.42657	-0.02083	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01916	-0.03999	53
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	SWPA	'EUFAULA 138KV'	51	0.01053	-0.03959	53
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	SWPA	'EUFAULA 161KV'	69.6	0.01053	-0.03959	53
KACP	'NORTHEAST 161KV'	174	-0.02906	SWPA	'WEBBERS FALLS 161KV'	39	0.01064	-0.0397	53
KACP	'NORTHEAST 161KV'	174	-0.02906	SWPA	'EUFAULA 138KV'	51	0.01053	-0.03959	53
KACP	'NORTHEAST 161KV'	174	-0.02906	SWPA	'EUFAULA 161KV'	69.6	0.01053	-0.03959	53
KACP	'NORTHEAST 161KV'	174	-0.02906	SWPA	'WEBBERS FALLS 161KV'	39	0.01064	-0.0397	53
INDN	'SUB I 69KV'	38	-0.03284	SWPA	'OZARK 161KV'	130.6	0.00733	-0.04017	53
INDN	'SUBSTATION J 69KV'	30	-0.03277	SWPA	'OZARK 161KV'	130.6	0.00733	-0.0401	53
SWPA	'TRUMAN 161KV'	78.00002	-0.01315	WERE	'EVANS ENERGY CENTER 138KV'	565	0.02694	-0.04009	53
SWPA	'TRUMAN 161KV'	78.00002	-0.01315	WERE	'GILL ENERGY CENTER 138KV'	171	0.02641	-0.03956	53
SWPA	'TRUMAN 161KV'	78.00002	-0.01315	WERE	'GILL ENERGY CENTER 69KV'	75	0.02642	-0.03957	53
SWPA	'TRUMAN 161KV'	78.00002	-0.01315	WERE	'WACO 138KV'	17.96	0.02646	-0.03961	53
MIPU	'TWA 161KV'	32.1	-0.02448	WERE	'CITY OF IOLA 69KV'	24.267	0.01572	-0.0402	53
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	SWPA	'CLARENCE CANNON DAM 69KV'	39.2	-0.0087	-0.03941	54
MIPU	'LAKE ROAD 161KV'	91	-0.01573	WERE	'CITY OF WINFIELD 69KV'	27.962	0.02338	-0.03911	54
KACP	'MARSHALL 161KV'	54.1	-0.01571	WERE	'CITY OF WINFIELD 69KV'	27.962	0.02338	-0.03909	54
SWPA	'TRUMAN 161KV'	78.00002	-0.01315	WERE	'CITY OF AUGUSTA 69KV'	24	0.02609	-0.03924	54
KACP	'MONTROSE 161KV'	24.42657	-0.02083	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01758	-0.03841	55
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	SWPA	'BROKEN BOW 138KV'	93.4	0.00945	-0.03851	55
KACP	'NORTHEAST 161KV'	174	-0.02906	SWPA	'BROKEN BOW 138KV'	93.4	0.00945	-0.03851	55
KACP	'BULL CREEK 161KV'	65	-0.00404	WERE	'CITY OF BURLINGTON 69KV'	34.753	0.03392	-0.03796	56
KACP	'BULL CREEK 161KV'	65	-0.00404	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.03392	-0.03796	56
SWPA	'BULL SHOALS 161KV'	110.9	0.00383	KACP	'LACYGNE UNIT 345KV'	958	0.04156	-0.03773	56
KACP	'MONTROSE 161KV'	24.42657	-0.02083	WERE	'CHANUTE 69KV'	56.723	0.01724	-0.03807	56
KACP	'MONTROSE 161KV'	24.42657	-0.02083	WERE	'CITY OF ERIE 69KV'	23.27	0.01724	-0.03807	56
MIPU	'NEVADA 69KV'	20.3	-0.01068	WERE	'EVANS ENERGY CENTER 138KV'	565	0.02694	-0.03762	56
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	SWPA	'BEAVER 161KV'	137.7023	0.00873	-0.03779	56
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	SWPA	'CARTHAGE 69KV'	30	0.00855	-0.03761	56
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	SWPA	'ROBERT S. KERR 161KV'	314.2	0.00885	-0.03791	56
KACP	'NORTHEAST 161KV'	174	-0.02906	SWPA	'BEAVER 161KV'	137.7023	0.00873	-0.03779	56
KACP	'NORTHEAST 161KV'	174	-0.02906	SWPA	'CARTHAGE 69KV'	30	0.00855	-0.03761	56
KACP	'NORTHEAST 161KV'	174	-0.02906	SWPA	'ROBERT S. KERR 161KV'	314.2	0.00885	-0.03791	56
MIPU	'TWA 161KV'	32.1	-0.02448	SWPA	'KEYSTONE DAM 161KV'	150.2	0.01342	-0.0379	56
MIPU	'LAKE ROAD 161KV'	91	-0.01573	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.02144	-0.03717	57
KACP	'MARSHALL 161KV'	54.1	-0.01571	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.02144	-0.03715	57
MIPU	'NEVADA 69KV'	20.3	-0.01068	WERE	'GILL ENERGY CENTER 138KV'	171	0.02641	-0.03709	57
MIPU	'NEVADA 69KV'	20.3	-0.01068	WERE	'GILL ENERGY CENTER 69KV'	75	0.02642	-0.0371	57
MIPU	'TWA 161KV'	32.1	-0.02448	SWPA	'DENISON 138KV'	59.40001	0.01263	-0.03711	57
MIPU	'ARIES 161KV'	595	-0.0451	SWPA	'CLARENCE CANNON DAM 69KV'	39.2	-0.0087	-0.0364	57
MIPU	'LAKE ROAD 161KV'	91	-0.01573	WERE	'LAWRENCE ENERGY CENTER 230KV'	225.0277	0.02047	-0.0362	58
MIPU	'LAKE ROAD 161KV'	91	-0.01573	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.02065	-0.03638	58
KACP	'MARSHALL 161KV'	54.1	-0.01571	WERE	'LAWRENCE ENERGY CENTER 230KV'	225.0277	0.02047	-0.03618	58
KACP	'MARSHALL 161KV'	54.1	-0.01571	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.02065	-0.03636	58
KACP	'MONTROSE 161KV'	24.42657	-0.02083	WERE	'CITY OF IOLA 69KV'	24.267	0.01572	-0.03655	58
MIPU	'NEVADA 69KV'	20.3	-0.01068	WERE	'CITY OF AUGUSTA 69KV'	24	0.02609	-0.03677	58
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	SWPA	'OZARK 161KV'	130.6	0.00733	-0.03639	58
KACP	'NORTHEAST 161KV'	174	-0.02906	SWPA	'OZARK 161KV'	130.6	0.00733	-0.03639	58
INDN	'SUB I 69KV'	38	-0.03284	SWPA	'BULL SHOALS 161KV'	278.7	0.00383	-0.03667	58
INDN	'SUBSTATION J 69KV'	30	-0.03277	SWPA	'BULL SHOALS 161KV'	278.7	0.00383	-0.0366	58
SWPA	'TRUMAN 161KV'	78.00002	-0.01315	WERE	'CITY OF WINFIELD 69KV'	27.962	0.02338	-0.03653	58
INDN	'SUB I 69KV'	38	-0.03284	SWPA	'GREERS FERRY 161KV'	93.4	0.00326	-0.0361	59
INDN	'SUBSTATION J 69KV'	30	-0.03277	SWPA	'GREERS FERRY 161KV'	93.4	0.00326	-0.03603	59
MIPU	'LAKE ROAD 161KV'	91	-0.01573	WERE	'BPU - CITY OF MCPHERSON 115KV'	152.9756	0.01961	-0.03534	60
MIPU	'LAKE ROAD 161KV'	91	-0.01573	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	0.01929	-0.03502	60
MIPU	'LAKE ROAD 161KV'	91	-0.01573	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	0.01929	-0.03502	60
KACP	'MARSHALL 161KV'	54.1	-0.01571	WERE	'BPU - CITY OF MCPHERSON 115KV'	152.9756	0.01961	-0.03532	60
KACP	'MARSHALL 161KV'	54.1	-0.01571	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	0.01929	-0.035	60
KACP	'MARSHALL 161KV'	54.1	-0.01571	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	0.01929	-0.035	60
MIPU	'TWA 161KV'	32.1	-0.02448	SWPA	'EUFAULA 138KV'	51	0.01053	-0.03501	60
MIPU	'TWA 161KV'	32.1	-0.02448	SWPA	'EUFAULA 161KV'	69.6	0.01053	-0.03501	60
MIPU	'TWA 161KV'	32.1	-0.02448	SWPA	'WEBBERS FALLS 161KV'	39	0.01064	-0.03512	60
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	SWPA	'TRUMAN 161KV'	102	-0.01315	-0.03496	61
MIPU	'LAKE ROAD 161KV'	91	-0.01573	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01916	-0.03489	61
KACP	'MARSHALL 161KV'	54.1	-0.01571	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01916	-0.03487	61
SWPA	'TRUMAN 161KV'	78.00002	-0.01315	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.02144	-0.03459	61
KACP	'MONTROSE 161KV'	24.42657	-0.02083	SWPA	'KEYSTONE DAM 161KV'	150.2	0.01342	-0.03425	62
SWPA	'OZARK 161KV'	64.90001	0.00733	KACP	'LACYGNE UNIT 345KV'	958	0.04156	-0.03423	62
INDN	'SUB I 69KV'	38	-0.03284	SWPA	'JONESBORO 161KV'	43	0.00108	-0.03392	62
INDN	'SUB I 69KV'	38	-0.03284	KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	0.00149	-0.03433	62
INDN	'SUBSTATION J 69KV'	30	-0.03277	SWPA	'JONESBORO 161KV'	43	0.00108	-0.03385	62
INDN	'SUBSTATION J 69KV'	30	-0.03277	KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	0.00149	-0.03426	62
MIPU	'TWA 161KV'	32.1	-0.02448	SWPA	'BROKEN BOW 138KV'	93.4	0.00945	-0.03393	62
SWPA	'KENNETT 69KV'	21.8	0.00008	WERE	'CITY OF BURLINGTON 69KV'	34.753	0.03392	-0.03384	63
KACP	'MONTROSE 161KV'	24.42657	-0.02083	SWPA	'DENISON 138KV'	59.40001	0.01263	-0.03346	63
SWPA	'TRUMAN 161KV'	78.00002	-0.01315	WERE	'LAWRENCE ENERGY CENTER 230KV'	225.0277	0.02047	-0.03362	63
SWPA	'TRUMAN 161KV'	78.00002	-0.01315	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.02065	-0.0338	63
MIPU	'TWA 161KV'	32.1	-0.02448	SWPA	'ROBERT S. KERR 161KV'	314.2	0.00885	-0.03333	63
SWPA	'BEAVER 161KV'	27.89772	0.00873	KACP	'LACYGNE UNIT 345KV'	958	0.04156	-0.03283	64
MIPU	'LAKE ROAD 161KV'	91	-0.01573	WERE	'CHANUTE 69KV'	56.723	0.01724	-0.03297	64
MIPU	'LAKE ROAD 161KV'	91	-0.01573	WERE	'CITY OF ERIE 69KV'	23.27	0.01724	-0.03297	64
MIPU	'LAKE ROAD 161KV'	91	-0.01573	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01758	-0.03331	64
KACP	'MARSHALL 161KV'	54.1	-0.01571	WERE	'CHANUTE 69KV'	56.723	0.01724	-0.03295	64
KACP	'MARSHALL 161KV'	54.1	-0.01571	WERE	'CITY OF ERIE 69KV'	23.27	0.01724	-0.03295	64
KACP	'MARSHALL 161KV'	54.1	-0.01571	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01758	-0.03329	64
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	SWPA	'BULL SHOALS 161KV'	278.7	0.00383	-0.03289	64
KACP	'NORTHEAST 161KV'	174	-0.02906	SWPA	'BULL SHOALS 161KV'	278.7	0.00383	-0.03289	64
MIPU	'TWA 161KV'	32.1	-0.02448	SWPA	'BEAVER 161KV'	137.7023	0.00873	-0.03321	64
MIPU	'TWA 161KV'	32.1	-0.02448	SWPA	'CARTHAGE 69KV'	30	0.00855	-0.03303	64

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

MIPU	'GREENWOOD 161KV'	255.8	-0.04811	MIPU	'LAKE ROAD 161KV'	35	-0.01573	-0.03238	65
MIPU	'GREENWOOD 161KV'	255.8	-0.04811	MIPU	'LAKE ROAD 34KV'	92	-0.01573	-0.03238	65
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	SWPA	'GREERS FERRY 161KV'	93.4	0.00326	-0.03232	65
KACP	'NORTHEAST 161KV'	174	-0.02906	SWPA	'GREERS FERRY 161KV'	93.4	0.00326	-0.03232	65
SWPA	'ROBERT S. KERR 161KV'	74.5	0.00885	KACP	'LACYGNE UNIT 345KV'	958	0.04156	-0.03271	65
SWPA	'TRUMAN 161KV'	78.00002	-0.01315	WERE	'BPU - CITY OF MCPHERSON 115KV'	152.9756	0.01961	-0.03276	65
SWPA	'TRUMAN 161KV'	78.00002	-0.01315	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	0.01929	-0.03244	65
SWPA	'TRUMAN 161KV'	78.00002	-0.01315	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	0.01929	-0.03244	65
SWPA	'TRUMAN 161KV'	78.00002	-0.01315	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01916	-0.03231	65
MIPU	'ARIES 161KV'	595	-0.0451	SWPA	'TRUMAN 161KV'	102	-0.01315	-0.03195	66
INDN	'SUB I 69KV'	38	-0.03284	SWPA	'SIKESTON 161KV'	235	-0.00095	-0.03189	66
INDN	'SUBSTATION J 69KV'	30	-0.03277	SWPA	'SIKESTON 161KV'	235	-0.00095	-0.03182	66
MIPU	'LAKE ROAD 161KV'	91	-0.01573	WERE	'CITY OF IOLA 69KV'	24.267	0.01572	-0.03145	67
KACP	'MARSHALL 161KV'	54.1	-0.01571	WERE	'CITY OF IOLA 69KV'	24.267	0.01572	-0.03143	67
KACP	'MONTROSE 161KV'	24.42657	-0.02083	SWPA	'EUFAULA 138KV'	51	0.01053	-0.03136	67
KACP	'MONTROSE 161KV'	24.42657	-0.02083	SWPA	'EUFAULA 161KV'	69.6	0.01053	-0.03136	67
KACP	'MONTROSE 161KV'	24.42657	-0.02083	SWPA	'WEBBERS FALLS 161KV'	39	0.01064	-0.03147	67
MIPU	'TWA 161KV'	32.1	-0.02448	SWPA	'OZARK 161KV'	130.6	0.00733	-0.03181	67
KACP	'BULL CREEK 161KV'	65	-0.00404	WERE	'EVANS ENERGY CENTER 138KV'	565	0.02694	-0.03098	68
SWPA	'WEBBERS FALLS 161KV'	30	0.01064	KACP	'LACYGNE UNIT 345KV'	958	0.04156	-0.03092	68
KACP	'BULL CREEK 161KV'	65	-0.00404	WERE	'GILL ENERGY CENTER 138KV'	171	0.02641	-0.03045	69
KACP	'BULL CREEK 161KV'	65	-0.00404	WERE	'GILL ENERGY CENTER 69KV'	75	0.02642	-0.03046	69
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	0.00149	-0.03055	69
KACP	'NORTHEAST 161KV'	174	-0.02906	KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	0.00149	-0.03055	69
SWPA	'TRUMAN 161KV'	78.00002	-0.01315	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01758	-0.03073	69
KACP	'BULL CREEK 161KV'	65	-0.00404	WERE	'CITY OF AUGUSTA 69KV'	24	0.02609	-0.03013	70
SWPA	'BULL SHOALS 161KV'	110.9	0.00383	WERE	'CITY OF BURLINGTON 69KV'	34.753	0.03392	-0.03009	70
KACP	'MONTROSE 161KV'	24.42657	-0.02083	SWPA	'BROKEN BOW 138KV'	93.4	0.00945	-0.03028	70
KACP	'NORTHEAST 13KV'	145.1914	-0.02906	SWPA	'JONESBORO 161KV'	43	0.00108	-0.03014	70
KACP	'NORTHEAST 161KV'	174	-0.02906	SWPA	'JONESBORO 161KV'	43	0.00108	-0.03014	70
SWPA	'TRUMAN 161KV'	78.00002	-0.01315	WERE	'CHANUTE 69KV'	56.723	0.01724	-0.03039	70

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

Upgrade: RENO - SUMMIT 345KV & WICHITA - RENO 345KV
 Limiting Facility: EXIDE JUNCTION - SUMMIT 115KV CKT 1
 Direction: To->From
 Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1
 Flowgate: 57368573811568725687312208WP
 Date Redispatch Needed: Starting 2008 12/1 - 4/1 Until EOC
 Season Flowgate Identified: 2008 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount									
1161506	7.6	7.6									
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Aggregate Redispatch Amount (MW)		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.34662	22		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.01959	-0.30416	25		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	WERE	'EMPORIA 345KV'	380	0.00734	-0.29191	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01386	-0.29843	26		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	WERE	'LAWRENCE ENERGY CENTER 230KV'	132.0757	0.00692	-0.29149	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	OKGE	'AES 161KV'	320	-0.0005	-0.28407	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	EMDE	'ASBURY 161KV'	191	0.00112	-0.28569	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	WERE	'CHANUTE 69KV'	34.903	0.00118	-0.28575	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	WERE	'CITY OF AUGUSTA 69KV'	15	0.00027	-0.28484	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	WERE	'CITY OF BURLINGTON 69KV'	20.393	0.00214	-0.28671	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	WERE	'CITY OF IOLA 69KV'	19.902	0.0014	-0.28597	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.61	0.00214	-0.28671	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	AEPW	'COGENTRIX 345KV'	200	-0.00073	-0.28394	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	AEPW	'EASTMAN 138KV'	355	-0.00092	-0.28365	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	EMDE	'ELK RIVER 345KV'	150	0.00088	-0.28545	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	AEPW	'FITZHUGH 161KV'	126	-0.00039	-0.28418	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	AEPW	'FLINT CREEK 161KV'	400	0.00003	-0.2846	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	AEPW	'FULTON 115KV'	32.99999	-0.00086	-0.28371	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	KACP	'HAWTHORN 161KV'	455	0.00428	-0.28885	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	KACP	'IATAN 345KV'	396	0.00627	-0.29084	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	AEPW	'KNOXLEE 138KV'	103	-0.00091	-0.28366	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	AEPW	'L&D13 69KV'	24	-0.00044	-0.28413	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	KACP	'LACYGNE UNIT 345KV'	958	0.00378	-0.28835	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	MIPU	'LAKE ROAD 161KV'	35	0.00362	-0.28819	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	MIPU	'LAKE ROAD 34KV'	92	0.00362	-0.28819	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	AEPW	'LEBROCK 345KV'	315	-0.00092	-0.28365	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	KACP	'MARSHALL 161KV'	15	0.00234	-0.28691	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	KACP	'MONTROSE 161KV'	205.0929	0.00372	-0.28829	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	OKGE	'MUSKOGEE 345KV'	1516	-0.00076	-0.28381	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	KACY	'NEARMAN 161KV'	18.16388	0.00484	-0.28941	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	KACY	'NEARMAN 20KV'	220	0.00484	-0.28941	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	AEPW	'NORTHEASTERN STATION 138KV'	240	-0.00029	-0.28428	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	AEPW	'NORTHEASTERN STATION 345KV'	600	-0.00015	-0.28442	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	AEPW	'OEC 345KV'	219	-0.00055	-0.28402	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	EMDE	'OZARK BEACH 161KV'	16	0.00066	-0.28523	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	AEPW	'PIRKEY GENERATION 138KV'	450	-0.00092	-0.28365	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	KACY	'QUINDARO 161KV'	116.942	0.00482	-0.28939	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	KACY	'QUINDARO 69KV'	72	0.0048	-0.28937	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	AEPW	'RIVERSIDE STATION 138KV'	88.00001	-0.00072	-0.28365	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	EMDE	'RIVERTON 161KV'	38	0.00082	-0.28539	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	EMDE	'RIVERTON 69KV'	44.59597	0.0008	-0.28537	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	MIPU	'SIBLEY 161KV'	229.1608	0.00396	-0.28853	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	MIPU	'SIBLEY 69KV'	45.99999	0.00403	-0.2886	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	MIPU	'SOUTH HARPER 161KV'	75.19196	0.00447	-0.28904	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	EMDE	'STATE LINE 161KV'	356.7808	0.00082	-0.28539	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	AEPW	'WELSH 345KV'	975.0001	-0.00103	-0.28354	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	AEPW	'WILKES 138KV'	134.7028	-0.00095	-0.28362	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	AEPW	'WILKES 345KV'	186.6942	-0.00094	-0.28363	27		
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.28498	27		
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.28476	27		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	AEPW	'COMANCHE 138KV'	160	-0.00484	-0.27973	28		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	AEPW	'COMANCHE 69KV'	63	-0.00477	-0.2798	28		

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

WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	OKGE	'FPLWND2 34KV'	61.9956	-0.00422	-0.28035	28
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	OKGE	'MCCLAIN 138KV'	478	-0.00256	-0.28201	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	OKGE	'REDBUD 345KV'	250	-0.00209	-0.28248	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	OKGE	'SEMINOLE 138KV'	448.9081	-0.00224	-0.28217	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	OKGE	'SEMINOLE 345KV'	590.52	-0.00235	-0.28222	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	OKGE	'SMITH COGEN 138KV'	120	-0.00251	-0.28206	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	OKGE	'SOONER 138KV'	505	-0.00171	-0.28286	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	OKGE	'SOONER 345KV'	513	-0.00187	-0.2827	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	AEPW	'SOUTHWESTERN STATION 138KV'	29	-0.00467	-0.2799	28
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	WERE	'WACO 138KV'	17.414	-0.00252	-0.28205	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	-0.03194	-0.25263	31
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.01959	-0.24252	32
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.01959	-0.2423	32
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01386	-0.23679	33
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01386	-0.23657	33
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	WERE	'EMPORIA 345KV'	380	0.00734	-0.23027	34
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	KACP	'IATAN 345KV'	396	0.00627	-0.2292	34
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	WERE	'LAWRENCE ENERGY CENTER 230KV'	132.0757	0.00692	-0.22985	34
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	KACY	'NEARMAN 161KV'	18.16388	0.00484	-0.22777	34
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	KACY	'NEARMAN 20KV'	220	0.00484	-0.22777	34
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	KACY	'QUINDARO 161KV'	116.942	0.00482	-0.22775	34
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	KACY	'QUINDARO 69KV'	72	0.0048	-0.22773	34
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	MIPU	'SOUTH HARPER 161KV'	75.19196	0.00447	-0.2274	34
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	WERE	'EMPORIA 345KV'	380	0.00734	-0.23005	34
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	KACP	'IATAN 345KV'	396	0.00627	-0.22898	34
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	WERE	'LAWRENCE ENERGY CENTER 230KV'	132.0757	0.00692	-0.22963	34
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	KACY	'NEARMAN 161KV'	18.16388	0.00484	-0.22755	34
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	KACY	'NEARMAN 20KV'	220	0.00484	-0.22755	34
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	KACY	'QUINDARO 161KV'	116.942	0.00482	-0.22753	34
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	KACY	'QUINDARO 69KV'	72	0.0048	-0.22751	34
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.22362	34
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	-0.05826	-0.22631	34
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28457	WEPL	'JUDSON LARGE 115KV'	24.01537	-0.05825	-0.22632	34
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	EMDE	'ASBURY 161KV'	191	0.00112	-0.22405	34
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	WERE	'CHANUTE 69KV'	34.903	0.00118	-0.22411	34
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	WERE	'CITY OF BURLINGTON 69KV'	20.393	0.00214	-0.22507	34
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	WERE	'CITY OF IOLA 69KV'	19.902	0.0014	-0.22433	34
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.61	0.00214	-0.22507	34
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	EMDE	'ELK RIVER 345KV'	150	0.00088	-0.22381	34
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	AEPW	'FITZHUGH 161KV'	126	-0.00039	-0.22254	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	AEPW	'FLINT CREEK 161KV'	400	0.00003	-0.22296	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	KACP	'HAWTHORN 161KV'	455	0.00428	-0.22721	34
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	KACP	'LACYGNE UNIT 345KV'	958	0.00378	-0.22671	34
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	MIPU	'LAKE ROAD 161KV'	35	0.00362	-0.22655	34
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	MIPU	'LAKE ROAD 34KV'	92	0.00362	-0.22655	34
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	KACP	'MONTROSE 161KV'	205.0929	0.00372	-0.22665	34
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	AEPW	'NORTHEASTERN STATION 138KV'	240	-0.00029	-0.22264	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	AEPW	'NORTHEASTERN STATION 345KV'	600	-0.00015	-0.22278	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	EMDE	'OZARK BEACH 161KV'	16	0.00066	-0.22359	34
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	EMDE	'RIVERTON 161KV'	38	0.00082	-0.22375	34
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	EMDE	'RIVERTON 69KV'	44.59597	0.0008	-0.22373	34
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	MIPU	'SIBLEY 161KV'	229.1608	0.00396	-0.22689	34
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	MIPU	'SIBLEY 69KV'	45.99999	0.00403	-0.22696	34
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	EMDE	'STATE LINE 161KV'	356.7808	0.00082	-0.22375	34
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	EMDE	'ASBURY 161KV'	191	0.00112	-0.22383	34
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	WERE	'CHANUTE 69KV'	34.903	0.00118	-0.22389	34
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	WERE	'CITY OF BURLINGTON 69KV'	20.393	0.00214	-0.22485	34
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	WERE	'CITY OF IOLA 69KV'	19.902	0.0014	-0.22411	34
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.61	0.00214	-0.22485	34
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	EMDE	'ELK RIVER 345KV'	150	0.00088	-0.22359	34
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	AEPW	'FLINT CREEK 161KV'	400	0.00003	-0.22274	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	KACP	'HAWTHORN 161KV'	455	0.00428	-0.22699	34
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	KACP	'LACYGNE UNIT 345KV'	958	0.00378	-0.22649	34
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	MIPU	'LAKE ROAD 161KV'	35	0.00362	-0.22633	34
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	MIPU	'LAKE ROAD 34KV'	92	0.00362	-0.22633	34
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	KACP	'MONTROSE 161KV'	205.0929	0.00372	-0.22643	34
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	AEPW	'NORTHEASTERN STATION 345KV'	600	-0.00015	-0.22256	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	EMDE	'OZARK BEACH 161KV'	16	0.00066	-0.22337	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	EMDE	'RIVERTON 161KV'	38	0.00082	-0.22353	34
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	EMDE	'RIVERTON 69KV'	44.59597	0.0008	-0.22351	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	MIPU	'SIBLEY 161KV'	229.1608	0.00396	-0.22667	34
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	MIPU	'SIBLEY 69KV'	45.99999	0.00403	-0.22674	34
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	MIPU	'SOUTH HARPER 161KV'	75.19196	0.00447	-0.22718	34
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	EMDE	'STATE LINE 161KV'	356.7808	0.00082	-0.22353	34
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	OKGE	'AES 161KV'	320	-0.0005	-0.22243	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	AEPW	'COGENTRIX 345KV'	200	-0.00073	-0.2222	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	AEPW	'COMANCHE 138KV'	160	-0.00484	-0.21809	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	AEPW	'COMANCHE 69KV'	63	-0.00477	-0.21816	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	AEPW	'EASTMAN 138KV'	355	-0.00092	-0.22201	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	OKGE	'FPLWND2 34KV'	61.9956	-0.00422	-0.21871	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	AEPW	'FULTON 115KV'	32.99999	-0.00086	-0.22207	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	AEPW	'KNOXLEE 138KV'	103	-0.00091	-0.22202	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	AEPW	'LD13 69KV'	24	-0.00044	-0.22249	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	AEPW	'LEBROCK 345KV'	315	-0.00092	-0.22201	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	OKGE	'MCCLAIN 138KV'	478	-0.00256	-0.22037	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	OKGE	'MUSKOGEE 345KV'	1516	-0.00076	-0.22217	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	AEPW	'OEC 345KV'	219	-0.00055	-0.22238	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	AEPW	'PIRKEY GENERATION 138KV'	450	-0.00092	-0.22201	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	OKGE	'REDBUD 345KV'	250	-0.00209	-0.22084	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	AEPW	'RIVERSIDE STATION 138KV'	88.00001	-0.00072	-0.22221	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	OKGE	'SEMINOLE 138KV'	448.9081	-0.00224	-0.22053	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	OKGE	'SEMINOLE 345KV'	590.52	-0.00235	-0.22058	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	OKGE	'SMITH COGEN 138KV'	120	-0.00251	-0.22042	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	OKGE	'SOONER 138KV'	505	-0.00171	-0.22122	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	OKGE	'SOONER 345KV'	513	-0.00187	-0.22106	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	AEPW	'SOUTHWESTERN STATION 138KV'	29	-0.00467	-0.21826	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	WERE	'WACO 138KV'	17.414	-0.00252	-0.22041	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	AEPW	'WELSH 345KV'	975.0001	-0.00103	-0.2219	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	AEPW	'WILKES 138KV'	134.7028	-0.00095	-0.22198	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	AEPW	'WILKES 345KV'	186.6942	-0.00094	-0.22199	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	OKGE	'AES 161KV'	320	-0.0005	-0.22221	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	AEPW	'COGENTRIX 345KV'	200	-0.00073	-0.22198	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	AEPW	'COMANCHE 138KV'	160	-0.00484	-0.21787	35

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

WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	AEPW	'COMANCHE 69KV'	63	-0.00477	-0.21794	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	AEPW	'EASTMAN 138KV'	355	-0.00092	-0.22179	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	AEPW	'FITZHUGH 161KV'	126	-0.00039	-0.22232	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	OKGE	'FPLWND2 34KV'	61.9956	-0.00422	-0.21849	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	AEPW	'FULTON 115KV'	32.99999	-0.00086	-0.22185	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	AEPW	'KNOXLEE 138KV'	103	-0.00091	-0.22118	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	AEPW	'LD13 69KV'	24	-0.00044	-0.22227	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	AEPW	'LEBROCK 345KV'	315	-0.00092	-0.22179	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	OKGE	'MCCLAIN 138KV'	478	-0.00256	-0.22015	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	OKGE	'MUSKOGEE 345KV'	1516	-0.00076	-0.22195	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	AEPW	'NORTHEASTERN STATION 138KV'	240	-0.00029	-0.22242	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	AEPW	'OEC 345KV'	219	-0.00055	-0.22216	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	AEPW	'PIRKEY GENERATION 138KV'	450	-0.00092	-0.22179	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	OKGE	'REDBUD 345KV'	250	-0.00209	-0.22062	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	AEPW	'RIVERSIDE STATION 138KV'	88.00001	-0.00072	-0.22199	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	OKGE	'SEMINOLE 138KV'	448.9081	-0.0024	-0.22031	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	OKGE	'SEMINOLE 345KV'	590.52	-0.00235	-0.22036	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	OKGE	'SMITH COGEN 138KV'	120	-0.00251	-0.2202	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	OKGE	'SOONER 138KV'	505	-0.00171	-0.221	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	OKGE	'SOONER 345KV'	513	-0.00187	-0.22084	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	AEPW	'SOUTHWESTERN STATION 138KV'	29	-0.00467	-0.21804	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	WERE	'WACO 138KV'	17.414	-0.00252	-0.22019	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	AEPW	'WELSH 345KV'	975.0001	-0.00103	-0.22168	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	AEPW	'WILKES 138KV'	134.7028	-0.00095	-0.22176	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	AEPW	'WILKES 345KV'	186.6942	-0.00094	-0.22177	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	-0.03194	-0.19099	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	67	-0.22271	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	-0.03194	-0.19077	40
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.01959	-0.18116	42
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01386	-0.17543	44
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	WERE	'EMPORIA 345KV'	380	0.00734	-0.16891	45
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	WERE	'LAWRENCE ENERGY CENTER 230KV'	132.0757	0.00692	-0.16849	46
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	KACP	'HAWTHORN 161KV'	455	0.00428	-0.16585	46
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	KACP	'IATAN 345KV'	396	0.00627	-0.16784	46
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	KACY	'NEARMAN 20KV'	220	0.00484	-0.16641	46
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	KACY	'QUINDARO 161KV'	116.942	0.00482	-0.16639	46
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	KACY	'QUINDARO 69KV'	72	0.0048	-0.16637	46
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	MIPU	'SIBLEY 69KV'	45.99999	0.00403	-0.1656	46
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	MIPU	'SOUTH HARPER 161KV'	75.19196	0.00447	-0.16604	46
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	KACP	'LACYGNE UNIT 345KV'	958	0.00378	-0.16535	46
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	MIPU	'LAKE ROAD 161KV'	35	0.00362	-0.16519	47
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	MIPU	'LAKE ROAD 34KV'	92	0.00362	-0.16519	47
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	KACP	'MONROSE 161KV'	205.0929	0.00372	-0.16529	46
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	MIPU	'SIBLEY 161KV'	229.1608	0.00396	-0.16553	46
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.16437	47
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	-0.05826	-0.16467	47
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.22293	WEPL	'JUDSON LARGE 115KV'	24.01537	-0.05825	-0.16468	47
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	-0.05826	-0.16445	47
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22271	WEPL	'JUDSON LARGE 115KV'	24.01537	-0.05825	-0.16446	47
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	OKGE	'AES 161KV'	320	-0.0005	-0.16107	48
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	EMDE	'ASBURY 161KV'	191	0.00112	-0.16269	47
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	WERE	'CHANUTE 69KV'	34.903	0.00118	-0.16275	47
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	AEPW	'COGENTRIX 345KV'	200	-0.00073	-0.16084	48
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	AEPW	'EASTMAN 138KV'	355	-0.00092	-0.16065	48
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	EMDE	'ELK RIVER 345KV'	150	0.00088	-0.16245	47
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	AEPW	'FITZHUGH 161KV'	126	-0.00039	-0.16118	48
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	AEPW	'FLINT CREEK 161KV'	400	0.00003	-0.1616	48
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	AEPW	'FULTON 115KV'	32.99999	-0.00086	-0.16071	48
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	AEPW	'KNOXLEE 138KV'	103	-0.00091	-0.16066	48
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	AEPW	'LD13 69KV'	24	-0.00044	-0.16113	48
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	AEPW	'LEBROCK 345KV'	315	-0.00092	-0.16065	48
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	OKGE	'MUSKOGEE 345KV'	1516	-0.00076	-0.16081	48
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	AEPW	'NORTHEASTERN STATION 138KV'	240	-0.00029	-0.16128	48
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	AEPW	'NORTHEASTERN STATION 345KV'	600	-0.00015	-0.16142	48
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	AEPW	'OEC 345KV'	219	-0.00055	-0.16102	48
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	AEPW	'PIRKEY GENERATION 138KV'	450	-0.00092	-0.16065	48
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	AEPW	'RIVERSIDE STATION 138KV'	88.00001	-0.00072	-0.16085	48
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	EMDE	'RIVERTON 161KV'	38	0.00082	-0.16239	47
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	EMDE	'RIVERTON 69KV'	44.59597	0.0008	-0.16237	47
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	EMDE	'STATE LINE 161KV'	356.7808	0.00082	-0.16239	47
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	AEPW	'WELSH 345KV'	975.0001	-0.00103	-0.16054	48
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	AEPW	'WILKES 138KV'	134.7028	-0.00095	-0.16062	48
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	AEPW	'WILKES 345KV'	186.6942	-0.00094	-0.16063	48
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	OKGE	'MCCLAIN 138KV'	478	-0.00256	-0.15901	48
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	OKGE	'REDBUD 345KV'	250	-0.00209	-0.15948	48
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	OKGE	'SEMINOLE 138KV'	448.9081	-0.0024	-0.15917	48
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	OKGE	'SEMINOLE 345KV'	590.52	-0.00235	-0.15922	48
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	OKGE	'SMITH COGEN 138KV'	120	-0.00251	-0.15906	48
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	OKGE	'SOONER 138KV'	505	-0.00171	-0.15986	48
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	OKGE	'SOONER 345KV'	513	-0.00187	-0.1597	48
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	AEPW	'COMANCHE 138KV'	160	-0.00484	-0.15673	49
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	AEPW	'COMANCHE 69KV'	63	-0.00477	-0.1568	49
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	OKGE	'FPLWND2 34KV'	61.9956	-0.00422	-0.15735	49
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	AEPW	'SOUTHWESTERN STATION 138KV'	29	-0.00467	-0.1569	49
WEPL	'A. M. MULLERGEN GENERATOR 115KV'	63	-0.08924	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.15129	51
MIDW	'lyons 115kv'	999	-0.07683	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.13888	55
MIDW	'pannee 115kv'	999	-0.07683	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.13888	55
MIDW	'rice 115kv'	999	-0.07683	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.13888	55
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	-0.03194	-0.12963	59
WEPL	'RUSSELL 115KV'	27.9	-0.06784	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.12989	59
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.01959	-0.12191	63
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.1203	64
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01386	-0.11618	66
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.11143	69
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	WERE	'EMPORIA 345KV'	380	0.00734	-0.10966	70
WEPL	'A. M. MULLERGEN GENERATOR 115KV'	63	-0.08924	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.01959	-0.10883	70
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	KACP	'IATAN 345KV'	396	0.00627	-0.10859	70
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	WERE	'LAWRENCE ENERGY CENTER 230KV'	132.0757	0.00692	-0.10924	70
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	KACP	'HAWTHORN 161KV'	455	0.00428	-0.1066	72
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	KACY	'NEARMAN 20KV'	220	0.00484	-0.10716	71
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	KACY	'QUINDARO 161KV'	116.942	0.00482	-0.10714	71
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	KACY	'QUINDARO 69KV'	72	0.0048	-0.10712	71
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	MIPU	'SIBLEY 161KV'	229.1608	0.00396	-0.10628	72
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	MIPU	'SIBLEY 69KV'	45.99999	0.00403	-0.10635	72

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

WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	MIPU	'SOUTH HARPER 161KV'	75.19196	0.00447	-0.10679	72
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	KACP	'LACYGNE UNIT 345KV'	958	0.00378	-0.10611	72
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	MIPU	'LAKE ROAD 161KV'	35	0.00362	-0.10594	72
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	MIPU	'LAKE ROAD 34KV'	92	0.00362	-0.10594	72
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	KACP	'MONTROSE 161KV'	205.0929	0.00372	-0.10604	72
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01386	-0.1031	74
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16157	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	-0.05826	-0.10331	74
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	EMDE	'ASBURY 161KV'	191	0.00112	-0.10344	74
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	WERE	'CHANUTE 69KV'	34.903	0.00118	-0.1035	74
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	EMDE	'ELK RIVER 345KV'	150	0.00088	-0.1032	74
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	EMDE	'RIVERTON 161KV'	38	0.00082	-0.10314	74
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	EMDE	'RIVERTON 69KV'	44.59587	0.0008	-0.10312	74
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	EMDE	'STATE LINE 161KV'	356.7808	0.00082	-0.10314	74
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	AEPW	'FLINT CREEK 161KV'	400	0.00003	-0.10235	75
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	AEPW	'NORTHEASTERN STATION 138KV'	240	-0.00029	-0.10203	75
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	AEPW	'NORTHEASTERN STATION 345KV'	600	-0.00015	-0.10217	75
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	OKGE	'AES 161KV'	320	-0.00005	-0.10182	75
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	AEPW	'COGENTRIX 345KV'	200	-0.00073	-0.10159	75
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	AEPW	'EASTMAN 138KV'	355	-0.00092	-0.1014	75
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	AEPW	'FITZHUGH 161KV'	126	-0.00039	-0.10193	75
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	AEPW	'KNOXLEE 138KV'	103	-0.00091	-0.10141	75
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	AEPW	'LEBROCK 345KV'	315	-0.00092	-0.1014	75
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	OKGE	'MUSKOGEE 345KV'	1516	-0.00076	-0.10156	75
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	AEPW	'OEC 345KV'	219	-0.00055	-0.10177	75
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	AEPW	'PIRKEY GENERATION 138KV'	450	-0.00092	-0.1014	75
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	AEPW	'RIVERSIDE STATION 138KV'	88.00001	-0.00072	-0.1016	75
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	AEPW	'WELSH 345KV'	975.0001	-0.00103	-0.10129	76
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	AEPW	'WILKES 138KV'	134.7028	-0.00095	-0.10137	75
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	AEPW	'WILKES 345KV'	186.6942	-0.00094	-0.10138	75
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	OKGE	'REDBUD 345KV'	250	-0.00209	-0.10023	76
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	OKGE	'SEMINOLE 345KV'	590.52	-0.00235	-0.09997	77
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	OKGE	'SOONER 138KV'	505	-0.00171	-0.10061	76
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	OKGE	'SOONER 345KV'	513	-0.00187	-0.10045	76
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	OKGE	'MCCLAIN 138KV'	478	-0.00256	-0.09976	77
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	OKGE	'SEMINOLE 138KV'	448.9081	-0.0024	-0.09992	77
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	OKGE	'SMITH COGEN 138KV'	120	-0.00251	-0.09981	77
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	OKGE	'FPLWIND2 34KV'	61.9956	-0.00422	-0.0981	78
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	AEPW	'COMANCHE 138KV'	160	-0.00484	-0.09748	78
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.10232	AEPW	'COMANCHE 69KV'	63	-0.00477	-0.09755	78
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	WERE	'EMPORIA 345KV'	380	0.00734	-0.09658	79
MIDW	'lyons 115kv'	999	-0.07683	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.01959	-0.09642	79
MIDW	'pawnee 115kv'	999	-0.07683	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.01959	-0.09642	79
MIDW	'rice 115kv'	999	-0.07683	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.01959	-0.09642	79
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	KACP	'IATAN 345KV'	396	0.00627	-0.09551	80
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	WERE	'LAWRENCE ENERGY CENTER 230KV'	132.0757	0.00692	-0.09616	80
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	KACY	'NEARMAN 20KV'	220	0.00484	-0.09408	81
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	KACY	'QUINDARO 161KV'	116.942	0.00482	-0.09406	81
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	KACY	'QUINDARO 69KV'	72	0.0048	-0.09404	81
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	MIPU	'SOUTH HARPER 161KV'	75.19196	0.00447	-0.09371	82
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.03194	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.09399	81
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	KACP	'HAWTHORN 161KV'	455	0.00428	-0.09352	82
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	KACP	'LACYGNE UNIT 345KV'	958	0.00378	-0.09302	82
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	MIPU	'LAKE ROAD 34KV'	92	0.00362	-0.09286	82
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	KACP	'MONTROSE 161KV'	205.0929	0.00372	-0.09296	82
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	MIPU	'SIBLEY 161KV'	229.1608	0.00396	-0.0932	82
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	MIPU	'SIBLEY 69KV'	45.99999	0.00403	-0.09327	82
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	EMDE	'ASBURY 161KV'	191	0.00112	-0.09036	85
MIDW	'lyons 115kv'	999	-0.07683	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01386	-0.09069	84
MIDW	'pawnee 115kv'	999	-0.07683	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01386	-0.09069	84
MIDW	'rice 115kv'	999	-0.07683	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01386	-0.09069	84
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	EMDE	'ELK RIVER 345KV'	150	0.00088	-0.09012	85
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	EMDE	'RIVERTON 69KV'	44.59587	0.0008	-0.09004	85
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	EMDE	'STATE LINE 161KV'	356.7808	0.00082	-0.09006	85
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	AEPW	'FITZHUGH 161KV'	126	-0.00039	-0.08895	86
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	AEPW	'FLINT CREEK 161KV'	400	0.00003	-0.08927	86
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	AEPW	'NORTHEASTERN STATION 138KV'	240	-0.00029	-0.08895	86
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	AEPW	'NORTHEASTERN STATION 345KV'	600	-0.00015	-0.08909	86
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	OKGE	'AES 161KV'	320	-0.00005	-0.08874	86
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	AEPW	'COGENTRIX 345KV'	200	-0.00073	-0.08851	86
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	AEPW	'EASTMAN 138KV'	355	-0.00092	-0.08832	87
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	AEPW	'KNOXLEE 138KV'	103	-0.00091	-0.08833	87
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	AEPW	'LEBROCK 345KV'	315	-0.00092	-0.08832	87
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	OKGE	'MUSKOGEE 345KV'	1516	-0.00076	-0.08848	86
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	AEPW	'OEC 345KV'	219	-0.00055	-0.08869	86
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	AEPW	'PIRKEY GENERATION 138KV'	450	-0.00092	-0.08832	87
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	AEPW	'RIVERSIDE STATION 138KV'	88.00001	-0.00072	-0.08852	86
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	AEPW	'WELSH 345KV'	975.0001	-0.00103	-0.08821	87
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	AEPW	'WILKES 138KV'	134.7028	-0.00095	-0.08829	87
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	AEPW	'WILKES 345KV'	186.6942	-0.00094	-0.0883	87
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	OKGE	'SOONER 138KV'	505	-0.00171	-0.08753	87
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	OKGE	'SOONER 345KV'	513	-0.00187	-0.08737	87
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	OKGE	'MCCLAIN 138KV'	478	-0.00256	-0.08668	88
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	OKGE	'REDBUD 345KV'	250	-0.00209	-0.08715	88
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	OKGE	'SEMINOLE 138KV'	448.9081	-0.0024	-0.08684	88
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	OKGE	'SEMINOLE 345KV'	590.52	-0.00235	-0.08689	88
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	OKGE	'SMITH COGEN 138KV'	120	-0.00251	-0.08673	88
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	AEPW	'COMANCHE 69KV'	63	-0.00477	-0.08447	90
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	OKGE	'FPLWIND2 34KV'	61.9956	-0.00422	-0.08502	90
WEPL	'A. M. MULLERGERN GENERATOR 115KV'	63	-0.08924	AEPW	'COMANCHE 138KV'	160	-0.00484	-0.0844	91
MIDW	'lyons 115kv'	999	-0.07683	WERE	'EMPORIA 345KV'	380	0.00734	-0.08417	91
MIDW	'pawnee 115kv'	999	-0.07683	WERE	'EMPORIA 345KV'	380	0.00734	-0.08417	91
MIDW	'rice 115kv'	999	-0.07683	WERE	'EMPORIA 345KV'	380	0.00734	-0.08417	91
MIDW	'lyons 115kv'	999	-0.07683	WERE	'LAWRENCE ENERGY CENTER 230KV'	132.0757	0.00692	-0.08375	91
MIDW	'pawnee 115kv'	999	-0.07683	WERE	'LAWRENCE ENERGY CENTER 230KV'	132.0757	0.00692	-0.08375	91
MIDW	'rice 115kv'	999	-0.07683	WERE	'LAWRENCE ENERGY CENTER 230KV'	132.0757	0.00692	-0.08375	91
MIDW	'lyons 115kv'	999	-0.07683	KACP	'IATAN 345KV'	396	0.00627	-0.0831	92
MIDW	'pawnee 115kv'	999	-0.07683	KACP	'IATAN 345KV'	396	0.00627	-0.0831	92
MIDW	'rice 115kv'	999	-0.07683	KACP	'IATAN 345KV'	396	0.00627	-0.0831	92
MIDW	'lyons 115kv'	999	-0.07683	KACY	'NEARMAN 20KV'	220	0.00484	-0.08167	94
MIDW	'lyons 115kv'	999	-0.07683	KACY	'QUINDARO 161KV'	116.942	0.00482	-0.08165	94
MIDW	'lyons 115kv'	999	-0.07683	KACY	'QUINDARO 69KV'	72	0.0048	-0.08163	94
MIDW	'lyons 115kv'	999	-0.07683	MIPU	'SOUTH HARPER 161KV'	75.19196	0.00447	-0.0813	94
MIDW	'pawnee 115kv'	999	-0.07683	KACY	'NEARMAN 20KV'	220	0.00484	-0.08167	94

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

MIDW	pawnee 115kv'	999	-0.07683	KACY	'QUINDARO 161KV'	116.942	0.00482	-0.08165	94
MIDW	'pawnee 115kv'	999	-0.07683	KACY	'QUINDARO 69KV'	72	0.0048	-0.08163	94
MIDW	'pawnee 115kv'	999	-0.07683	MIPU	'SOUTH HARPER 161KV'	75.19196	0.00447	-0.0813	94
MIDW	'rice 115kv'	999	-0.07683	KACY	'NEARMAN 20KV'	220	0.00484	-0.08167	94
MIDW	'rice 115kv'	999	-0.07683	KACY	'QUINDARO 161KV'	116.942	0.00482	-0.08165	94
MIDW	'rice 115kv'	999	-0.07683	KACY	'QUINDARO 69KV'	72	0.0048	-0.08163	94
MIDW	'rice 115kv'	999	-0.07683	MIPU	'SOUTH HARPER 161KV'	75.19196	0.00447	-0.0813	94
MIDW	'lyons 115kv'	999	-0.07683	KACP	'HAWTHORN 161KV'	455	0.00428	-0.08111	94
MIDW	'lyons 115kv'	999	-0.07683	KACP	'LACYGNE UNIT 345KV'	958	0.00378	-0.08061	95
MIDW	'lyons 115kv'	999	-0.07683	KACP	'MONTROSE 161KV'	205.0929	0.00372	-0.08055	95
MIDW	'lyons 115kv'	999	-0.07683	MIPU	'SIBLEY 161KV'	229.1608	0.00396	-0.08079	95
MIDW	'lyons 115kv'	999	-0.07683	MIPU	'SIBLEY 69KV'	45.99999	0.00403	-0.08086	94
MIDW	'pawnee 115kv'	999	-0.07683	KACP	'HAWTHORN 161KV'	455	0.00428	-0.08111	94
MIDW	'pawnee 115kv'	999	-0.07683	KACP	'LACYGNE UNIT 345KV'	958	0.00378	-0.08061	95
MIDW	'pawnee 115kv'	999	-0.07683	KACP	'MONTROSE 161KV'	205.0929	0.00372	-0.08055	95
MIDW	'pawnee 115kv'	999	-0.07683	MIPU	'SIBLEY 161KV'	229.1608	0.00396	-0.08079	95
MIDW	'pawnee 115kv'	999	-0.07683	MIPU	'SIBLEY 69KV'	45.99999	0.00403	-0.08086	94
MIDW	'rice 115kv'	999	-0.07683	KACP	'HAWTHORN 161KV'	455	0.00428	-0.08111	94
MIDW	'rice 115kv'	999	-0.07683	KACP	'LACYGNE UNIT 345KV'	958	0.00378	-0.08061	95
MIDW	'rice 115kv'	999	-0.07683	KACP	'MONTROSE 161KV'	205.0929	0.00372	-0.08055	95
MIDW	'rice 115kv'	999	-0.07683	MIPU	'SIBLEY 161KV'	229.1608	0.00396	-0.08079	95
MIDW	'rice 115kv'	999	-0.07683	MIPU	'SIBLEY 69KV'	45.99999	0.00403	-0.08086	94
MIDW	'lyons 115kv'	999	-0.07683	MIPU	'LAKE ROAD 34KV'	92	0.00362	-0.08045	95
MIDW	'pawnee 115kv'	999	-0.07683	MIPU	'LAKE ROAD 34KV'	92	0.00362	-0.08045	95
MIDW	'rice 115kv'	999	-0.07683	MIPU	'LAKE ROAD 34KV'	92	0.00362	-0.08045	95
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.01959	-0.07764	98
MIDW	'lyons 115kv'	999	-0.07683	EMDE	'ASBURY 161KV'	191	0.00112	-0.07795	98
MIDW	'lyons 115kv'	999	-0.07683	EMDE	'ELK RIVER 345KV'	150	0.00088	-0.07771	98
MIDW	'lyons 115kv'	999	-0.07683	EMDE	'RIVERTON 69KV'	44.59597	0.0008	-0.07763	98
MIDW	'lyons 115kv'	999	-0.07683	EMDE	'STATE LINE 161KV'	356.7808	0.00082	-0.07765	98
MIDW	'pawnee 115kv'	999	-0.07683	EMDE	'ASBURY 161KV'	191	0.00112	-0.07795	98
MIDW	'pawnee 115kv'	999	-0.07683	EMDE	'ELK RIVER 345KV'	150	0.00088	-0.07771	98
MIDW	'pawnee 115kv'	999	-0.07683	EMDE	'RIVERTON 69KV'	44.59597	0.0008	-0.07763	98
MIDW	'pawnee 115kv'	999	-0.07683	EMDE	'STATE LINE 161KV'	356.7808	0.00082	-0.07765	98
MIDW	'rice 115kv'	999	-0.07683	EMDE	'ASBURY 161KV'	191	0.00112	-0.07795	98
MIDW	'rice 115kv'	999	-0.07683	EMDE	'ELK RIVER 345KV'	150	0.00088	-0.07771	98
MIDW	'rice 115kv'	999	-0.07683	EMDE	'RIVERTON 69KV'	44.59597	0.0008	-0.07763	98
MIDW	'rice 115kv'	999	-0.07683	EMDE	'STATE LINE 161KV'	356.7808	0.00082	-0.07765	98
MIDW	'lyons 115kv'	999	-0.07683	AEPW	'FITZHUGH 161KV'	126	-0.00039	-0.07644	100
MIDW	'lyons 115kv'	999	-0.07683	AEPW	'FLINT CREEK 161KV'	400	0.00003	-0.07686	99
MIDW	'lyons 115kv'	999	-0.07683	AEPW	'NORTHEASTERN STATION 138KV'	240	-0.00029	-0.07654	100
MIDW	'lyons 115kv'	999	-0.07683	AEPW	'NORTHEASTERN STATION 345KV'	600	-0.00015	-0.07668	100
MIDW	'pawnee 115kv'	999	-0.07683	AEPW	'FITZHUGH 161KV'	126	-0.00039	-0.07644	100
MIDW	'pawnee 115kv'	999	-0.07683	AEPW	'FLINT CREEK 161KV'	400	0.00003	-0.07686	99
MIDW	'pawnee 115kv'	999	-0.07683	AEPW	'NORTHEASTERN STATION 138KV'	240	-0.00029	-0.07654	100
MIDW	'pawnee 115kv'	999	-0.07683	AEPW	'NORTHEASTERN STATION 345KV'	600	-0.00015	-0.07668	100
MIDW	'rice 115kv'	999	-0.07683	AEPW	'FITZHUGH 161KV'	126	-0.00039	-0.07644	100
MIDW	'rice 115kv'	999	-0.07683	AEPW	'FLINT CREEK 161KV'	400	0.00003	-0.07686	99
MIDW	'rice 115kv'	999	-0.07683	AEPW	'NORTHEASTERN STATION 138KV'	240	-0.00029	-0.07654	100
MIDW	'rice 115kv'	999	-0.07683	AEPW	'NORTHEASTERN STATION 345KV'	600	-0.00015	-0.07668	100
MIDW	'lyons 115kv'	999	-0.07683	OKGE	'AES 161KV'	320	-0.0005	-0.07633	100
MIDW	'lyons 115kv'	999	-0.07683	AEPW	'COGENTRIX 345KV'	200	-0.00073	-0.0761	100
MIDW	'lyons 115kv'	999	-0.07683	AEPW	'EASTMAN 138KV'	355	-0.00092	-0.07591	101
MIDW	'lyons 115kv'	999	-0.07683	AEPW	'KNOXLEE 138KV'	103	-0.00091	-0.07592	101
MIDW	'lyons 115kv'	999	-0.07683	AEPW	'LEBROCK 345KV'	315	-0.00092	-0.07591	101
MIDW	'lyons 115kv'	999	-0.07683	OKGE	'MUSKOGEE 345KV'	1516	-0.00076	-0.07607	100
MIDW	'lyons 115kv'	999	-0.07683	AEPW	'OEC 345KV'	219	-0.00055	-0.07628	100
MIDW	'lyons 115kv'	999	-0.07683	AEPW	'PIRKEY GENERATION 138KV'	450	-0.00092	-0.07591	101
MIDW	'lyons 115kv'	999	-0.07683	AEPW	'RIVERSIDE STATION 138KV'	88.00001	-0.00072	-0.07611	100
MIDW	'lyons 115kv'	999	-0.07683	AEPW	'WELSH 345KV'	975.0001	-0.00103	-0.0758	101
MIDW	'lyons 115kv'	999	-0.07683	AEPW	'WILKES 138KV'	134.7028	-0.00095	-0.07588	101
MIDW	'lyons 115kv'	999	-0.07683	AEPW	'WILKES 345KV'	186.6942	-0.00094	-0.07589	101
MIDW	'pawnee 115kv'	999	-0.07683	OKGE	'AES 161KV'	320	-0.0005	-0.07633	100
MIDW	'pawnee 115kv'	999	-0.07683	AEPW	'COGENTRIX 345KV'	200	-0.00073	-0.0761	100
MIDW	'pawnee 115kv'	999	-0.07683	AEPW	'EASTMAN 138KV'	355	-0.00092	-0.07591	101
MIDW	'pawnee 115kv'	999	-0.07683	AEPW	'KNOXLEE 138KV'	103	-0.00091	-0.07592	101
MIDW	'pawnee 115kv'	999	-0.07683	AEPW	'LEBROCK 345KV'	315	-0.00092	-0.07591	101
MIDW	'pawnee 115kv'	999	-0.07683	OKGE	'MUSKOGEE 345KV'	1516	-0.00076	-0.07607	100
MIDW	'pawnee 115kv'	999	-0.07683	AEPW	'OEC 345KV'	219	-0.00055	-0.07628	100
MIDW	'pawnee 115kv'	999	-0.07683	AEPW	'PIRKEY GENERATION 138KV'	450	-0.00092	-0.07591	101
MIDW	'pawnee 115kv'	999	-0.07683	AEPW	'RIVERSIDE STATION 138KV'	88.00001	-0.00072	-0.07611	100
MIDW	'pawnee 115kv'	999	-0.07683	AEPW	'WELSH 345KV'	975.0001	-0.00103	-0.0758	101
MIDW	'pawnee 115kv'	999	-0.07683	AEPW	'WILKES 138KV'	134.7028	-0.00095	-0.07588	101
MIDW	'pawnee 115kv'	999	-0.07683	AEPW	'WILKES 345KV'	186.6942	-0.00094	-0.07589	101
MIDW	'rice 115kv'	999	-0.07683	OKGE	'AES 161KV'	320	-0.0005	-0.07633	100
MIDW	'rice 115kv'	999	-0.07683	AEPW	'COGENTRIX 345KV'	200	-0.00073	-0.0761	100
MIDW	'rice 115kv'	999	-0.07683	AEPW	'EASTMAN 138KV'	355	-0.00092	-0.07591	101
MIDW	'rice 115kv'	999	-0.07683	AEPW	'KNOXLEE 138KV'	103	-0.00091	-0.07592	101
MIDW	'rice 115kv'	999	-0.07683	AEPW	'LEBROCK 345KV'	315	-0.00092	-0.07591	101
MIDW	'rice 115kv'	999	-0.07683	OKGE	'MUSKOGEE 345KV'	1516	-0.00076	-0.07607	100
MIDW	'rice 115kv'	999	-0.07683	AEPW	'OEC 345KV'	219	-0.00055	-0.07628	100
MIDW	'rice 115kv'	999	-0.07683	AEPW	'PIRKEY GENERATION 138KV'	450	-0.00092	-0.07591	101
MIDW	'rice 115kv'	999	-0.07683	AEPW	'RIVERSIDE STATION 138KV'	88.00001	-0.00072	-0.07611	100
MIDW	'rice 115kv'	999	-0.07683	AEPW	'WELSH 345KV'	975.0001	-0.00103	-0.0758	101
MIDW	'rice 115kv'	999	-0.07683	AEPW	'WILKES 138KV'	134.7028	-0.00095	-0.07588	101
MIDW	'rice 115kv'	999	-0.07683	AEPW	'WILKES 345KV'	186.6942	-0.00094	-0.07589	101
MIDW	'lyons 115kv'	999	-0.07683	OKGE	'REDBUD 345KV'	250	-0.00209	-0.07474	102
MIDW	'lyons 115kv'	999	-0.07683	OKGE	'SOONER 138KV'	505	-0.00171	-0.07512	102
MIDW	'lyons 115kv'	999	-0.07683	OKGE	'SOONER 345KV'	513	-0.00187	-0.07496	102
MIDW	'pawnee 115kv'	999	-0.07683	OKGE	'REDBUD 345KV'	250	-0.00209	-0.07474	102
MIDW	'pawnee 115kv'	999	-0.07683	OKGE	'SOONER 138KV'	505	-0.00171	-0.07512	102
MIDW	'pawnee 115kv'	999	-0.07683	OKGE	'SOONER 345KV'	513	-0.00187	-0.07496	102
MIDW	'rice 115kv'	999	-0.07683	OKGE	'REDBUD 345KV'	250	-0.00209	-0.07474	102
MIDW	'rice 115kv'	999	-0.07683	OKGE	'SOONER 138KV'	505	-0.00171	-0.07512	102
MIDW	'rice 115kv'	999	-0.07683	OKGE	'SOONER 345KV'	513	-0.00187	-0.07496	102
MIDW	'lyons 115kv'	999	-0.07683	OKGE	'MCCLAIN 138KV'	478	-0.00256	-0.07427	103
MIDW	'lyons 115kv'	999	-0.07683	OKGE	'SEMINOLE 138KV'	448.9081	-0.0024	-0.07443	103
MIDW	'lyons 115kv'	999	-0.07683	OKGE	'SEMINOLE 345KV'	590.52	-0.00235	-0.07448	103
MIDW	'lyons 115kv'	999	-0.07683	OKGE	'SMITH COGEN 138KV'	120	-0.00251	-0.07432	103
MIDW	'pawnee 115kv'	999	-0.07683	OKGE	'MCCLAIN 138KV'	478	-0.00256	-0.07427	103
MIDW	'pawnee 115kv'	999	-0.07683	OKGE	'SEMINOLE 138KV'	448.9081	-0.0024	-0.07443	103
MIDW	'pawnee 115kv'	999	-0.07683	OKGE	'SEMINOLE 345KV'	590.52	-0.00235	-0.07448	103
MIDW	'pawnee 115kv'	999	-0.07683	OKGE	'SMITH COGEN 138KV'	120	-0.00251	-0.07432	103

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

MIDW	'rice 115kv'	999	-0.07683	OKGE	'MCCLAIN 138KV'	478	-0.00256	-0.07427	103
MIDW	'rice 115kv'	999	-0.07683	OKGE	'SEMINOLE 138KV'	448.9081	-0.0024	-0.07443	103
MIDW	'rice 115kv'	999	-0.07683	OKGE	'SEMINOLE 345KV'	590.52	-0.00235	-0.07448	103
MIDW	'rice 115kv'	999	-0.07683	OKGE	'SMITH COGEN 138KV'	120	-0.00251	-0.07432	103
MIDW	'lyons 115kv'	999	-0.07683	OKGE	'FPLWIND2 34KV'	61.9956	-0.00422	-0.07261	105
MIDW	'pawnee 115kv'	999	-0.07683	OKGE	'FPLWIND2 34KV'	61.9956	-0.00422	-0.07261	105
MIDW	'rice 115kv'	999	-0.07683	OKGE	'FPLWIND2 34KV'	61.9956	-0.00422	-0.07261	105
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01386	-0.07211	106
WEPL	'CLIFTON 115KV'	70	-0.00992	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.07197	106
MIDW	'lyons 115kv'	999	-0.07683	AEPW	'COMANCHE 138KV'	160	-0.00484	-0.07199	106
MIDW	'lyons 115kv'	999	-0.07683	AEPW	'COMANCHE 69KV'	63	-0.00477	-0.07206	106
MIDW	'pawnee 115kv'	999	-0.07683	AEPW	'COMANCHE 138KV'	160	-0.00484	-0.07199	106
MIDW	'pawnee 115kv'	999	-0.07683	AEPW	'COMANCHE 69KV'	63	-0.00477	-0.07206	106
MIDW	'rice 115kv'	999	-0.07683	AEPW	'COMANCHE 138KV'	160	-0.00484	-0.07199	106
MIDW	'rice 115kv'	999	-0.07683	AEPW	'COMANCHE 69KV'	63	-0.00477	-0.07206	106
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8582	0.01959	-0.06897	111
AEPW	'SOUTHWESTERN STATION 138KV'	730	-0.00467	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06672	114
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	WERE	'EMPORIA 345KV'	380	0.00734	-0.06559	116
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	WERE	'LAWRENCE ENERGY CENTER 230KV'	132.0757	0.00692	-0.06517	117
WERE	'GILL ENERGY CENTER 138KV'	285	-0.00279	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06484	118
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	KACP	'IATAN 345KV'	396	0.00627	-0.06452	118
OKGE	'MUSTANG 138KV'	365.5	-0.00252	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06457	118
OKGE	'MUSTANG 69KV'	106	-0.00253	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06458	118
OKGE	'TINKER 5G 138KV'	62	-0.00243	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06448	118
WERE	'GILL ENERGY CENTER 69KV'	118	-0.00208	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06413	119
OKGE	'HORSESHOE LAKE 138KV'	851.5	-0.00232	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06437	119
AEPW	'KIOWA 345KV'	1348	-0.00211	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06416	119
OKGE	'ONE OAK 345KV'	336	-0.0023	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06435	119
OKGE	'REDBUD 345KV'	950	-0.00209	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06414	119
OKGE	'SEMINOLE 138KV'	56.09195	-0.0024	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06445	118
OKGE	'SEMINOLE 345KV'	406.08	-0.00235	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.0644	119
OKGE	'RED ROCK 345KV'	1050	-0.00187	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06392	119
AEPW	'WEEETKA 138KV'	162	-0.0014	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06345	120
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01386	-0.06324	121
AEPW	'EASTMAN 138KV'	130.01	-0.00092	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06297	121
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	KACY	'NEARMAN 20KV'	220	0.00484	-0.06309	121
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	KACY	'QUINDARO 161KV'	116.942	0.00482	-0.06307	121
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	KACY	'QUINDARO 69KV'	72	0.0048	-0.06305	121
AEPW	'KNOXLEE 138KV'	320	-0.00091	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06296	121
AEPW	'LEBROCK 345KV'	382	-0.00092	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06297	121
AEPW	'LIEBERMAN 138KV'	224	-0.00085	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.0629	121
AEPW	'PIRKEY GENERATION 138KV'	65	-0.00092	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06297	121
AEPW	'TURK 138KV'	608	-0.00103	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06308	121
AEPW	'WELSH 345KV'	68.99991	-0.00103	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06308	121
AEPW	'WILKES 138KV'	328.2972	-0.00095	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.063	121
AEPW	'WILKES 345KV'	124.3058	-0.00094	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06299	121
AEPW	'ARSENAL HILL 69KV'	99	-0.00083	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06288	121
AEPW	'COGENTRIX 345KV'	694	-0.00073	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06278	122
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	KACP	'HAWTHORN 161KV'	455	0.00428	-0.06253	122
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	MIPU	'SOUTH HARPER 161KV'	75.19196	0.00447	-0.06272	122
OKGE	'MUSKOGEE 161KV'	197	-0.00062	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06267	122
AEPW	'OEC 345KV'	1928.03	-0.00055	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.0626	122
AEPW	'RIVER SIDE 138KV'	172	-0.00072	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06277	122
AEPW	'RIVERSIDE STATION 138KV'	634	-0.00072	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06277	122
AEPW	'TULSA POWER STATION 138KV'	294	-0.00067	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06272	122
AEPW	'TULSA POWER STATION 69KV'	80	-0.00067	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06272	122
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	MIPU	'SIBLEY 161KV'	229.1608	0.00396	-0.06221	123
AEPW	'MID-CONTINENT 138KV'	142.11	-0.00018	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06223	123
AEPW	'NORTHEASTERN STATION 138KV'	260	-0.00029	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06234	122
WERE	'EVANS ENERGY CENTER 138KV'	947	-0.00007	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06212	123
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	KACP	'LACYGNE UNIT 345KV'	958	0.00378	-0.06203	123
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	MIPU	'LAKE ROAD 34KV'	92	0.00362	-0.06187	123
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	KACP	'MONTROSE 161KV'	205.0929	0.00372	-0.06197	123
AEPW	'MATTISON 161KV'	510	0.00001	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06204	123
EMDE	'LARUSSEL 161KV'	296	0.0009	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06115	125
EMDE	'RIVERTON 161KV'	284	0.00082	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06123	125
EMDE	'STATE LINE 161KV'	249.2192	0.00082	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.06123	125
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	EMDE	'ASBURY 161KV'	191	0.00112	-0.05937	129
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	EMDE	'ELK RIVER 345KV'	150	0.00088	-0.05913	129
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	EMDE	'STATE LINE 161KV'	356.7808	0.00082	-0.05907	129
MIPU	'LAKE ROAD 161KV'	91	0.00362	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.05843	131
KACP	'MONTROSE 161KV'	175.9071	0.00372	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.05833	131
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	AEPW	'FLINT CREEK 161KV'	400	0.00003	-0.05828	131
MIPU	'JUDSON LARGE 115KV'	88.98463	-0.05825	AEPW	'NORTHEASTERN STATION 345KV'	600	-0.00015	-0.0581	131
MIPU	'ARIES 161KV'	595	0.00422	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.05783	132
MIPU	'GREENWOOD 161KV'	255.8	0.0042	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.05785	132
KACP	'HAWTHORN 161KV'	423	0.00428	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.05777	132
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	OKGE	'AES 161KV'	320	-0.0005	-0.05775	132
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	AEPW	'FITZHUGH 161KV'	126	-0.00039	-0.05786	132
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	AEPW	'NORTHEASTERN STATION 138KV'	240	-0.00029	-0.05796	132
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	AEPW	'OEC 345KV'	219	-0.00055	-0.0577	132
KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	0.0043	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.05775	132
MIPU	'RALPH GREEN 69KV'	73.7	0.00414	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.05791	132
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	AEPW	'COGENTRIX 345KV'	200	-0.00073	-0.05752	133
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	AEPW	'EASTMAN 138KV'	355	-0.00092	-0.05733	133
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	AEPW	'KNOXLEE 138KV'	103	-0.00091	-0.05734	133
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	AEPW	'LEBROCK 345KV'	315	-0.00092	-0.05733	133
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	OKGE	'MUSKOGEE 345KV'	1516	-0.00076	-0.05749	133
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	AEPW	'PIRKEY GENERATION 138KV'	450	-0.00092	-0.05733	133
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	AEPW	'RIVERSIDE STATION 138KV'	88.00001	-0.00072	-0.05753	133
KACP	'NORTHEAST 13KV'	229	0.00445	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.0576	132
KACP	'NORTHEAST 161KV'	229	0.00445	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.0576	132
MIPU	'SOUTH HARPER 161KV'	239.808	0.00447	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.05758	132
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.08924	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	-0.03194	-0.0573	133
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	AEPW	'WELSH 345KV'	975.0001	-0.00103	-0.05722	133
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	AEPW	'WILKES 138KV'	134.7028	-0.00095	-0.0573	133
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	AEPW	'WILKES 345KV'	186.6942	-0.00094	-0.05731	133
KACY	'KAW 69KV'	192	0.00479	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.05726	133
KACY	'NEARMAN 161KV'	61.83612	0.00484	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.05721	133
KACY	'QUINDARO 161KV'	68.05799	0.00482	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.05723	133
KACY	'QUINDARO 69KV'	100	0.0048	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.05725	133
KACP	'BULL CREEK 161KV'	373	0.00509	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.05696	134
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	WERE	'EMPORIA 345KV'	380	0.00734	-0.05672	134

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

WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	OKGE	'SOONER 138KV'	505	-0.00171	-0.05654	135
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	WERE	'LAWRENCE ENERGY CENTER 230KV'	132.0757	0.00692	-0.0563	135
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	OKGE	'REDBUD 345KV'	250	-0.00209	-0.05616	136
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	OKGE	'SOONER 345KV'	513	-0.00187	-0.05638	135
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	OKGE	'SEMINOLE 138KV'	448.9081	-0.0024	-0.05585	137
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	OKGE	'SEMINOLE 345KV'	590.52	-0.00235	-0.0559	136
WERE	'TECUMSEH ENERGY CENTER 115KV'	243	0.00606	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.05599	136
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	KACP	'IATAN 345KV'	396	0.00627	-0.05565	137
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	OKGE	'MCCLAIN 138KV'	478	-0.00256	-0.05569	137
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	OKGE	'SMITH COGEN 138KV'	120	-0.00251	-0.05574	137
WERE	'LAWRENCE ENERGY CENTER 230KV'	136.9243	0.00692	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.05513	138
WERE	'EMPORIA 345KV'	935.9999	0.00734	WERE	'SMOKEY HILLS 34KV'	152	0.06205	-0.05471	139
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	KACY	'NEARMAN 20KV'	220	0.00484	-0.05422	141
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	KACY	'QUINDARO 161KV'	116.942	0.00482	-0.0542	141
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	KACY	'QUINDARO 69KV'	72	0.0048	-0.05418	141
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	MIPU	'SOUTH HARPER 161KV'	75.19196	0.00447	-0.05385	142
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	KACP	'HAWTHORN 161KV'	455	0.00428	-0.05366	142
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	MIPU	'SIBLEY 161KV'	229.1608	0.00396	-0.05334	143
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.05825	AEPW	'COMANCHE 138KV'	160	-0.00484	-0.05341	143
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	KACP	'LACYGNE UNIT 345KV'	958	0.00378	-0.05316	143
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	MIPU	'LAKE ROAD 34KV'	92	-0.00362	-0.053	144
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	KACP	'MONTROSE 161KV'	205.0929	0.00372	-0.0531	144
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.03194	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.01959	-0.05153	148
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	EMDE	'ASBURY 161KV'	191	0.00112	-0.0505	151
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	EMDE	'ELK RIVER 345KV'	150	0.00088	-0.05026	152
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	EMDE	'STATE LINE 161KV'	356.7808	0.00082	-0.0502	152
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	AEPW	'FLINT CREEK 161KV'	400	0.00003	-0.04941	154
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	AEPW	'NORTHEASTERN STATION 345KV'	600	-0.00015	-0.04923	155
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	AEPW	'FITZHUGH 161KV'	126	-0.00039	-0.04899	156
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	AEPW	'NORTHEASTERN STATION 138KV'	240	-0.00029	-0.04909	155
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	OKGE	'AES 161KV'	320	-0.0005	-0.04888	156
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	AEPW	'OEC 345KV'	219	-0.00055	-0.04883	156
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	AEPW	'COGENTRIX 345KV'	200	-0.00073	-0.04865	157
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	AEPW	'EASTMAN 138KV'	355	-0.00092	-0.04846	157
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	AEPW	'KNOWLES 138KV'	103	-0.00091	-0.04847	157
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	AEPW	'LEBROCK 345KV'	315	-0.00092	-0.04846	157
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	OKGE	'MUSKOGEE 345KV'	1516	-0.00076	-0.04862	157
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	AEPW	'PIRKEY GENERATION 138KV'	450	-0.00092	-0.04846	157
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	AEPW	'RIVERSIDE STATION 138KV'	88.00001	-0.00072	-0.04866	157
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	AEPW	'WELSH 345KV'	975.0001	-0.00103	-0.04835	158
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	AEPW	'WILKES 138KV'	134.7028	-0.00095	-0.04843	157
WEPL	'CIMARRON RIVER 115KV'	72	-0.04938	AEPW	'WILKES 345KV'	186.6942	-0.00094	-0.04844	157
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.03194	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01386	-0.0458	166
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.03194	WERE	'EMPORIA 345KV'	380	0.00734	-0.03928	194
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.03194	WERE	'LAWRENCE ENERGY CENTER 230KV'	132.0757	0.00692	-0.03886	196
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.03194	KACP	'IATAN 345KV'	396	0.00627	-0.03821	199
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.03194	KACY	'NEARMAN 20KV'	220	0.00484	-0.03678	207
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.03194	KACY	'QUINDARO 161KV'	116.942	0.00482	-0.03676	207
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.03194	KACP	'HAWTHORN 161KV'	455	0.00428	-0.03622	210
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.03194	MIPU	'SIBLEY 161KV'	229.1608	0.00396	-0.0359	212
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.03194	KACP	'LACYGNE UNIT 345KV'	958	0.00378	-0.03572	213
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.03194	KACP	'MONTROSE 161KV'	205.0929	0.00372	-0.03566	214
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.03194	EMDE	'ASBURY 161KV'	191	0.00112	-0.03306	230
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.03194	EMDE	'ELK RIVER 345KV'	150	0.00088	-0.03282	232
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.03194	EMDE	'STATE LINE 161KV'	356.7808	0.00082	-0.03276	232
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.03194	AEPW	'FLINT CREEK 161KV'	400	0.00003	-0.03197	238
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.03194	AEPW	'NORTHEASTERN STATION 345KV'	600	-0.00015	-0.03179	240
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.03194	AEPW	'NORTHEASTERN STATION 138KV'	240	-0.00029	-0.03165	241
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.03194	AEPW	'FITZHUGH 161KV'	126	-0.00039	-0.03155	241
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.03194	OKGE	'AES 161KV'	320	-0.0005	-0.03144	242
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.03194	AEPW	'OEC 345KV'	219	-0.00055	-0.03139	243
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.03194	AEPW	'COGENTRIX 345KV'	200	-0.00073	-0.03121	244
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.03194	OKGE	'MUSKOGEE 345KV'	1516	-0.00076	-0.03118	244
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.03194	AEPW	'EASTMAN 138KV'	355	-0.00092	-0.03102	246
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.03194	AEPW	'LEBROCK 345KV'	315	-0.00092	-0.03102	246
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.03194	AEPW	'PIRKEY GENERATION 138KV'	450	-0.00092	-0.03102	246
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.03194	AEPW	'WILKES 138KV'	134.7028	-0.00095	-0.03099	246
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.03194	AEPW	'WILKES 345KV'	186.6942	-0.00094	-0.031	246
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.03194	AEPW	'WELSH 345KV'	975.0001	-0.00103	-0.03091	246
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.03194	OKGE	'SOONER 138KV'	505	-0.00171	-0.03023	252
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.03194	OKGE	'SOONER 345KV'	513	-0.00187	-0.03007	253

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

Upgrade: RENO - SUMMIT 345KV & WICHITA - RENO 345KV
 Limiting Facility: EXIDE JUNCTION - SUMMIT 115KV CKT 1
 Direction: To->From
 Line Outage: NORTHVIEW - SUMMIT 115KV CKT 1
 Flowgate: 57368573811573715738112208SP
 Date Redispatch Needed: Starting 2008 6/1 - 10/1 Until EOC
 Season Flowgate Identified: 2008 Summer Peak

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
Reservation	Relief Amount	4.0							4.0
1161506									
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35529	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.43823	10
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.31672	13
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.01717	-0.25095	16
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.24545	17
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01113	-0.24491	17
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	OKGE	'AES 161KV'	320	-0.00021	-0.23357	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	AEPW	'ARSENAL HILL 69KV'	11.21387	-0.00023	-0.23355	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	EMDE	'ASBURY 161KV'	191	0.00001	-0.23379	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	KACP	'BULL CREEK 161KV'	308	0.00117	-0.23495	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	WERE	'CHANUTE 69KV'	55.637	-0.00009	-0.23369	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00075	-0.23303	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	WERE	'CITY OF BURLINGTON 69KV'	34.061	-0.00006	-0.23372	18

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

WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	WERE	'CITY OF ERIE 69KV'	23.374	-0.00009	-0.23369	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	KACP	'CITY OF HIGGINSVILLE 69KV'	35	0.0006	-0.23438	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	WERE	'CITY OF IOLA 69KV'	24.471	-0.00001	-0.23377	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	WERE	'CITY OF WINFIELD 69KV'	26.77	-0.00078	-0.233	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	-0.00006	-0.23372	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	AEPW	'COGENTRIX 345KV'	200	-0.00032	-0.23346	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	AEPW	'COMANCHE 138KV'	160	-0.00098	-0.2328	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	AEPW	'COMANCHE 69KV'	63	-0.00097	-0.23281	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	AEPW	'EASTMAN 138KV'	355.0058	-0.00025	-0.23353	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	EMDE	'ELK RIVER 345KV'	150	-0.00037	-0.23341	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	WERE	'EMPORIA 345KV'	310	0.00057	-0.23435	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	WERE	'EVANS ENERGY CENTER 138KV'	340	-0.00077	-0.23301	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	AEPW	'FITZHUGH 161KV'	126	-0.00018	-0.2336	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	AEPW	'FLINT CREEK 161KV'	428	-0.00016	-0.23362	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	OKGE	'FPLWIND2 34KV'	23.001	-0.00094	-0.23284	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	AEPW	'FULTON 115KV'	24.99999	-0.00024	-0.23354	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	WERE	'GILL ENERGY CENTER 138KV'	155	-0.00015	-0.23228	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	MIPU	'GREENWOOD 161KV'	169.9976	0.00064	-0.23442	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	KACP	'HAWTHORN 161KV'	769	0.00092	-0.2347	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	OKGE	'HORSESHOE LAKE 138KV'	851.5	-0.00062	-0.23316	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	OKGE	'HORSESHOE LAKE 69KV'	16	-0.00061	-0.23317	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	KACP	'IATAN 345KV'	396	0.00223	-0.23601	17
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00252	-0.2363	17
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	AEPW	'KNOXLEE 138KV'	225	-0.00025	-0.23353	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	AEPW	'L&D13 69KV'	11	-0.00021	-0.23357	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	KACP	'LACYGNE UNIT 345KV'	958	0.00046	-0.23424	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	MIPU	'LAKE ROAD 161KV'	35	0.00116	-0.23494	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	MIPU	'LAKE ROAD 34KV'	92	0.00116	-0.23494	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	EMDE	'LARUSSEL 161KV'	116	0	-0.23378	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	WERE	'LAWRENCE ENERGY CENTER 230KV'	233.4716	-0.00138	-0.2324	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	AEPW	'LEBROCK 345KV'	465.0004	-0.00025	-0.23353	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	AEPW	'LIEBERMAN 138KV'	73.99999	-0.00023	-0.23355	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	KACP	'MARSHALL 161KV'	15	0.00046	-0.23424	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	OKGE	'MCCLAIN 138KV'	478	-0.00066	-0.23312	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	KACP	'MONROSE 161KV'	355.3524	0.00061	-0.23439	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	OKGE	'MUSKOGEE 161KV'	166	-0.00028	-0.2335	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	OKGE	'MUSKOGEE 345KV'	1516	-0.00031	-0.23347	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	OKGE	'MUSTANG 138KV'	365.5	-0.00066	-0.23312	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	OKGE	'MUSTANG 69KV'	106	-0.00066	-0.23312	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	AEPW	'NARROWS 69KV'	22	-0.00032	-0.23346	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	KACY	'NEARMAN 161KV'	77	0.001	-0.23478	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	KACY	'NEARMAN 20KV'	220	0.001	-0.23478	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00026	-0.23352	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00024	-0.23354	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	AEPW	'OEC 345KV'	219.0044	-0.00029	-0.23349	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	OKGE	'ONE OAK 345KV'	300	-0.00064	-0.23314	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	EMDE	'OZARK BEACH 161KV'	16	0	-0.23378	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	KACP	'PAOLA COMBUSTION TURBINES 161KV'	63.0542	0.00075	-0.23453	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	AEPW	'PIRKEY GENERATION 138KV'	490	-0.00025	-0.23353	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	KACY	'QUINDARO 161KV'	135.1816	0.001	-0.23478	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	KACY	'QUINDARO 69KV'	140	0.001	-0.23478	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	OKGE	'REDBUD 345KV'	250.0063	-0.00058	-0.2332	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	AEPW	'RIVERSIDE STATION 138KV'	640	-0.00032	-0.23346	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	EMDE	'RIVERTON 161KV'	88.89612	-0.00004	-0.23374	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	EMDE	'RIVERTON 69KV'	42.51023	-0.00004	-0.23374	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	OKGE	'SEMINOLE 138KV'	482.8771	-0.00062	-0.23316	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	OKGE	'SEMINOLE 345KV'	996	-0.00061	-0.23317	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	MIPU	'SIBLEY 161KV'	231.5886	0.00078	-0.23456	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	MIPU	'SIBLEY 69KV'	45.99999	0.00082	-0.2346	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	OKGE	'SMITH COGEN 138KV'	120	-0.00066	-0.23312	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	OKGE	'SOONER 138KV'	505	-0.00061	-0.23317	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	OKGE	'SOONER 345KV'	513	-0.00062	-0.23316	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	MIPU	'SOUTH HARPER 161KV'	315	0.00057	-0.23435	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	AEPW	'SOUTHWESTERN STATION 138KV'	257	-0.00095	-0.23283	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	EMDE	'STATE LINE 161KV'	503	-0.00003	-0.23375	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	OKGE	'TINKER 5G 138KV'	31.99805	-0.00063	-0.23315	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	AEPW	'TULSA POWER STATION 138KV'	186	-0.00031	-0.23347	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	WERE	'WACO 138KV'	17.967	-0.00143	-0.23235	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	AEPW	'WEELETKA 138KV'	84	-0.00043	-0.23335	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	AEPW	'WELSH 345KV'	1044	-0.00028	-0.2335	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	AEPW	'WILKES 138KV'	349.5782	-0.00026	-0.23352	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	AEPW	'WILKES 345KV'	311	-0.00026	-0.23352	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	WERE	'TUCUMSEH ENERGY CENTER 115KV'	108	-0.00397	-0.22981	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	WEPL	'A. M. MULLERGEN GENERATOR 115KV'	63	-0.01654	-0.21724	19
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	WEPL	'CLIFTON 115KV'	58.49084	-0.01181	-0.22197	19
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	-0.01079	-0.22299	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	WEPL	'JUDSON LARGE 115KV'	105.5424	-0.01081	-0.22297	18
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.01717	-0.17968	23
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.17751	23
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.17745	23
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01113	-0.17364	24
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	KACP	'BULL CREEK 161KV'	308	0.00117	-0.16368	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	KACP	'CITY OF HIGGINSVILLE 69KV'	35	0.0006	-0.16311	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	MIPU	'GREENWOOD 161KV'	169.9976	0.00064	-0.16315	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	KACP	'HAWTHORN 161KV'	769	0.00092	-0.16343	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	KACP	'IATAN 345KV'	396	0.00223	-0.16474	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00252	-0.16503	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	MIPU	'LAKE ROAD 161KV'	35	0.00116	-0.16367	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	MIPU	'LAKE ROAD 34KV'	92	0.00116	-0.16367	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	KACP	'MONROSE 161KV'	355.3524	0.00061	-0.16312	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	KACY	'NEARMAN 161KV'	77	0.001	-0.16351	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	KACY	'NEARMAN 20KV'	220	0.001	-0.16351	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	KACP	'PAOLA COMBUSTION TURBINES 161KV'	63.0542	0.00075	-0.16326	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	KACY	'QUINDARO 161KV'	135.1816	0.001	-0.16351	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	KACY	'QUINDARO 69KV'	140	0.001	-0.16351	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	MIPU	'SIBLEY 161KV'	231.5886	0.00078	-0.16329	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	MIPU	'SIBLEY 69KV'	45.99999	0.00082	-0.16333	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	OKGE	'AES 161KV'	320	-0.00021	-0.1623	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	EMDE	'ASBURY 161KV'	191	0.00001	-0.16252	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	WERE	'CHANUTE 69KV'	55.637	-0.00009	-0.16242	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00075	-0.16176	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	WERE	'CITY OF BURLINGTON 69KV'	34.061	-0.00006	-0.16245	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	WERE	'CITY OF ERIE 69KV'	23.374	-0.00009	-0.16242	25

Table 6 - Potential Redispach Relief Pairs to Prevent Deferral of Service

WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	WERE	'CITY OF IOLA 69KV'	24.471	-0.00001	-0.1625	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	WERE	'CITY OF WINFIELD 69KV'	26.77	-0.00078	-0.16173	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	-0.00006	-0.16245	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	AEPW	'COGENTRIX 345KV'	200	-0.00032	-0.16219	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	AEPW	'COMANCHE 138KV'	160	-0.00098	-0.16153	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	AEPW	'COMANCHE 69KV'	63	-0.00097	-0.16154	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	AEPW	'EASTMAN 138KV'	355.0058	-0.00025	-0.16226	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	EMDE	'ELK RIVER 345KV'	150	-0.00037	-0.16214	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	WERE	'EMPORIA 345KV'	310	0.00057	-0.16308	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	WERE	'EVANS ENERGY CENTER 138KV'	340	-0.00077	-0.16174	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	AEPW	'FITZHUGH 161KV'	126	-0.00018	-0.16233	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	AEPW	'FLINT CREEK 161KV'	428	-0.00016	-0.16235	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	OKGE	'FPLWIND2 34KV'	23.001	-0.00094	-0.16157	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	AEPW	'FULTON 115KV'	24.99999	-0.00024	-0.16227	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	WERE	'GILL ENERGY CENTER 138KV'	155	-0.0015	-0.16101	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	OKGE	'HORSESHOE LAKE 138KV'	851.5	-0.00062	-0.16189	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	OKGE	'HORSESHOE LAKE 69KV'	16	-0.00061	-0.1619	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	AEPW	'KNOXLEE 138KV'	225	-0.00025	-0.16226	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	KACP	'LACYGNE UNIT 345KV'	958	0.00046	-0.16297	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	EMDE	'LARUSSEL 161KV'	116	0	-0.16251	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	WERE	'LAWRENCE ENERGY CENTER 230KV'	233.4716	-0.00138	-0.16113	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	AEPW	'LEBROCK 345KV'	465.0004	-0.00025	-0.16226	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	AEPW	'LIEBERMAN 138KV'	73.99999	-0.00023	-0.16228	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	KACP	'MARSHALL 161KV'	15	0.00046	-0.16297	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	OKGE	'MCCLAIN 138KV'	478	-0.00066	-0.16185	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	OKGE	'MUSKOGEE 161KV'	166	-0.00028	-0.16223	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	OKGE	'MUSKOGEE 345KV'	1516	-0.00031	-0.1622	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	OKGE	'MUSTANG 138KV'	365.5	-0.00066	-0.16185	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	OKGE	'MUSTANG 69KV'	106	-0.00066	-0.16185	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	AEPW	'NARROWS 69KV'	22	-0.00032	-0.16219	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00026	-0.16225	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00024	-0.16227	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	AEPW	'OEC 345KV'	219.0044	-0.00029	-0.16222	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	OKGE	'ONE OAK 345KV'	300	-0.00064	-0.16187	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	EMDE	'OZARK BEACH 161KV'	16	0	-0.16251	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	AEPW	'PIRKEY GENERATION 138KV'	490	-0.00025	-0.16226	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	OKGE	'REDBUD 345KV'	250.0063	-0.00058	-0.16193	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	AEPW	'RIVERSIDE STATION 138KV'	640	-0.00032	-0.16219	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	EMDE	'RIVERTON 161KV'	88.89612	-0.00004	-0.16247	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	EMDE	'RIVERTON 69KV'	42.51023	-0.00004	-0.16247	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	OKGE	'SEMINOLE 138KV'	482.8771	-0.00062	-0.16189	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	OKGE	'SEMINOLE 345KV'	996	-0.00061	-0.1619	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	OKGE	'SMITH COGEN 138KV'	120	-0.00066	-0.16185	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	OKGE	'SOONER 138KV'	505	-0.00061	-0.1619	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	OKGE	'SOONER 345KV'	513	-0.00062	-0.16189	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	MIPU	'SOUTH HARPER 161KV'	315	0.00057	-0.16308	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	AEPW	'SOUTHWESTERN STATION 138KV'	257	-0.00095	-0.16156	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	EMDE	'STATE LINE 161KV'	503	-0.00003	-0.16248	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	OKGE	'TINKER 5G 138KV'	31.99805	-0.00063	-0.16188	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	AEPW	'TULSA POWER STATION 138KV'	186	-0.00031	-0.1622	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	WERE	'WACO 138KV'	17.967	-0.00143	-0.16108	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	AEPW	'WELEETKA 138KV'	84	-0.00043	-0.16208	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	AEPW	'WELSH 345KV'	1044	-0.00028	-0.16223	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	AEPW	'WILKES 138KV'	349.5782	-0.00026	-0.16225	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	AEPW	'WILKES 345KV'	311	-0.00026	-0.16225	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	-0.00397	-0.15854	26
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	WEPL	'CLIFTON 115KV'	58.49084	-0.01181	-0.1507	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	-0.01079	-0.15172	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	WEPL	'JUDSON LARGE 115KV'	105.5424	-0.01081	-0.1517	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.16251	WEPL	'A. M. MULLERGEN GENERATOR 115KV'	63	-0.01654	-0.14597	28
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	WERE	'HUTCHINSON ENERGY CENTER 115KV'	205	-0.09457	-0.13921	29
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.01717	-0.11174	36
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.01717	-0.11168	36
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01113	-0.1057	38
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01113	-0.10564	38
MIDW	'lyons 115kv'	999	-0.01513	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.09807	41
MIDW	'pawnee 115kv'	999	-0.01513	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.09807	41
MIDW	'rice 115kv'	999	-0.01513	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.09807	41
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	KACP	'IATAN 345KV'	396	0.00223	-0.0968	42
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00252	-0.09709	42
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	KACP	'IATAN 345KV'	396	0.00223	-0.09674	42
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00252	-0.09703	42
WEPL	'RUSSELL 115KV'	27.9	-0.01367	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.09661	42
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	KACP	'BULL CREEK 161KV'	308	0.00117	-0.09574	42
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	KACP	'CITY OF HIGGINSVILLE 69KV'	35	0.0006	-0.09517	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	WERE	'EMPORIA 345KV'	310	0.00057	-0.09514	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	MIPU	'GREENWOOD 161KV'	169.9976	0.00064	-0.09521	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	KACP	'HAWTHORN 161KV'	769	0.00092	-0.09549	42
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	MIPU	'LAKE ROAD 161KV'	35	0.00116	-0.09573	42
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	MIPU	'LAKE ROAD 34KV'	92	0.00116	-0.09573	42
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	KACP	'MONTROSE 161KV'	355.3524	0.00061	-0.09518	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	KACY	'NEARMAN 161KV'	77	0.001	-0.09557	42
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	KACY	'NEARMAN 20KV'	220	0.001	-0.09557	42
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	KACP	'PAOLA COMBUSTION TURBINES 161KV'	63.0542	0.00075	-0.09532	42
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	KACY	'QUINDARO 161KV'	135.1816	0.001	-0.09557	42
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	MIPU	'SIBLEY 161KV'	231.5886	0.00078	-0.09535	42
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	MIPU	'SIBLEY 69KV'	45.99999	0.00082	-0.09539	42
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	MIPU	'SOUTH HARPER 161KV'	315	0.00057	-0.09514	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	KACP	'BULL CREEK 161KV'	308	0.00117	-0.09568	42
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	KACP	'CITY OF HIGGINSVILLE 69KV'	35	0.0006	-0.09511	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	WERE	'EMPORIA 345KV'	310	0.00057	-0.09508	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	MIPU	'GREENWOOD 161KV'	169.9976	0.00064	-0.09515	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	KACP	'HAWTHORN 161KV'	769	0.00092	-0.09543	42
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	MIPU	'LAKE ROAD 161KV'	35	0.00116	-0.09567	42
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	MIPU	'LAKE ROAD 34KV'	92	0.00116	-0.09567	42
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	KACP	'MONTROSE 161KV'	355.3524	0.00061	-0.09512	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	KACY	'NEARMAN 161KV'	77	0.001	-0.09551	42
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	KACY	'NEARMAN 20KV'	220	0.001	-0.09551	42
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	KACP	'PAOLA COMBUSTION TURBINES 161KV'	63.0542	0.00075	-0.09526	42
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	KACY	'QUINDARO 161KV'	135.1816	0.001	-0.09551	42
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	KACY	'QUINDARO 69KV'	140	0.001	-0.09551	42
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	MIPU	'SIBLEY 161KV'	231.5886	0.00078	-0.09529	42

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

WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	MIPU	'SIBLEY 69KV'	45.99999	0.00082	-0.09533	42
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	MIPU	'SOUTH HARPER 161KV'	315	0.00057	-0.09508	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	OKGE	'AES 161KV'	320	-0.00021	-0.09436	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	EMDE	'ASBURY 161KV'	191	0.00001	-0.09458	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	WERE	'CHANUTE 69KV'	55.637	-0.00009	-0.09448	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00075	-0.09382	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	WERE	'CITY OF BURLINGTON 69KV'	34.061	-0.00006	-0.09451	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	WERE	'CITY OF ERIE 69KV'	23.374	-0.00009	-0.09448	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	WERE	'CITY OF IOLA 69KV'	24.471	-0.00001	-0.09456	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	WERE	'CITY OF WINFIELD 69KV'	26.77	-0.00078	-0.09379	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	AEPW	'COGENTRIX 345KV'	200	-0.00032	-0.09425	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	AEPW	'EASTMAN 138KV'	355.0058	-0.00025	-0.09432	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	EMDE	'ELK RIVER 345KV'	150	-0.00037	-0.0942	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	WERE	'EVANS ENERGY CENTER 138KV'	340	-0.00077	-0.0938	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	AEPW	'FITZHUGH 161KV'	126	-0.00018	-0.09439	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	AEPW	'FLINT CREEK 161KV'	428	-0.00016	-0.09441	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	AEPW	'FULTON 115KV'	24.99999	-0.00024	-0.09433	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	OKGE	'HORSESHOE LAKE 138KV'	851.5	-0.00062	-0.09395	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	AEPW	'KNOXLEE 138KV'	225	-0.00025	-0.09432	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	KACP	'LACYGNE UNIT 345KV'	958	0.00046	-0.09503	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	EMDE	'LARUSSEL 161KV'	116	0	-0.09457	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	AEPW	'LEBROCK 345KV'	465.0004	-0.00025	-0.09432	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	AEPW	'LIEBERMAN 138KV'	73.99999	-0.00023	-0.09434	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	OKGE	'MCCLAIN 138KV'	478	-0.00066	-0.09391	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	OKGE	'MUSKOGEE 161KV'	166	-0.00028	-0.09429	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	OKGE	'MUSKOGEE 345KV'	1516	-0.00031	-0.09426	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	OKGE	'MUSTANG 138KV'	365.5	-0.00066	-0.09391	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	OKGE	'MUSTANG 69KV'	106	-0.00066	-0.09391	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00026	-0.09431	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00024	-0.09433	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	AEPW	'OEC 345KV'	219.0044	-0.00029	-0.09428	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	OKGE	'ONE OAK 345KV'	300	-0.00064	-0.09393	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	AEPW	'PIRKEY GENERATION 138KV'	490	-0.00025	-0.09432	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	OKGE	'REDBUD 345KV'	250.0063	-0.00058	-0.09399	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	AEPW	'RIVERSIDE STATION 138KV'	640	-0.00032	-0.09425	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	EMDE	'RIVERTON 161KV'	88.89612	-0.00004	-0.09453	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	EMDE	'RIVERTON 69KV'	42.51023	-0.00004	-0.09453	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	OKGE	'SEMINOLE 138KV'	482.8771	-0.00062	-0.09395	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	OKGE	'SEMINOLE 345KV'	996	-0.00061	-0.09396	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	OKGE	'SMITH COGEN 138KV'	120	-0.00066	-0.09391	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	OKGE	'SOONER 138KV'	505	-0.00061	-0.09396	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	OKGE	'SOONER 345KV'	513	-0.00062	-0.09395	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	EMDE	'STATE LINE 161KV'	503	-0.00003	-0.09454	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	OKGE	'TINKER 5G 138KV'	31.99805	-0.00063	-0.09394	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	AEPW	'TULSA POWER STATION 138KV'	186	-0.00031	-0.09426	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	AEPW	'WELLETKA 138KV'	84	-0.00043	-0.09414	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	AEPW	'WELSH 345KV'	1044	-0.00028	-0.09429	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	AEPW	'WILKES 138KV'	349.5782	-0.00026	-0.09431	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	AEPW	'WILKES 345KV'	311	-0.00026	-0.09431	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	OKGE	'AES 161KV'	320	-0.00021	-0.09443	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	EMDE	'ASBURY 161KV'	191	0.00001	-0.09452	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	WERE	'CHANUTE 69KV'	55.637	-0.00009	-0.09442	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00075	-0.09376	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	WERE	'CITY OF BURLINGTON 69KV'	34.061	-0.00006	-0.09445	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	WERE	'CITY OF ERIE 69KV'	23.374	-0.00009	-0.09442	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	WERE	'CITY OF IOLA 69KV'	24.471	-0.00001	-0.09445	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	WERE	'CITY OF WINFIELD 69KV'	26.77	-0.00078	-0.09373	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	AEPW	'COGENTRIX 345KV'	200	-0.00032	-0.09419	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	AEPW	'EASTMAN 138KV'	355.0058	-0.00025	-0.09426	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	EMDE	'ELK RIVER 345KV'	150	-0.00037	-0.09414	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	WERE	'EVANS ENERGY CENTER 138KV'	340	-0.00077	-0.09374	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	AEPW	'FITZHUGH 161KV'	126	-0.00018	-0.09433	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	AEPW	'FLINT CREEK 161KV'	428	-0.00016	-0.09435	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	AEPW	'FULTON 115KV'	24.99999	-0.00024	-0.09427	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	OKGE	'HORSESHOE LAKE 138KV'	851.5	-0.00062	-0.09399	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	AEPW	'KNOXLEE 138KV'	225	-0.00025	-0.09426	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	KACP	'LACYGNE UNIT 345KV'	958	0.00046	-0.09497	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	EMDE	'LARUSSEL 161KV'	116	0	-0.09451	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	AEPW	'LEBROCK 345KV'	465.0004	-0.00025	-0.09426	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	AEPW	'LIEBERMAN 138KV'	73.99999	-0.00023	-0.09428	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	OKGE	'MCCLAIN 138KV'	478	-0.00066	-0.09385	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	OKGE	'MUSKOGEE 161KV'	166	-0.00028	-0.09423	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	OKGE	'MUSKOGEE 345KV'	1516	-0.00031	-0.0942	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	OKGE	'MUSTANG 138KV'	365.5	-0.00066	-0.09385	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	OKGE	'MUSTANG 69KV'	106	-0.00066	-0.09385	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00026	-0.09425	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00024	-0.09427	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	AEPW	'OEC 345KV'	219.0044	-0.00029	-0.09422	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	OKGE	'ONE OAK 345KV'	300	-0.00064	-0.09387	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	AEPW	'PIRKEY GENERATION 138KV'	490	-0.00025	-0.09426	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	OKGE	'REDBUD 345KV'	250.0063	-0.00058	-0.09393	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	AEPW	'RIVERSIDE STATION 138KV'	640	-0.00032	-0.09419	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	EMDE	'RIVERTON 161KV'	88.89612	-0.00004	-0.09447	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	EMDE	'RIVERTON 69KV'	42.51023	-0.00004	-0.09447	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	OKGE	'SEMINOLE 138KV'	482.8771	-0.00062	-0.09389	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	OKGE	'SEMINOLE 345KV'	996	-0.00061	-0.0939	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	OKGE	'SMITH COGEN 138KV'	120	-0.00066	-0.09385	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	OKGE	'SOONER 138KV'	505	-0.00061	-0.0939	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	OKGE	'SOONER 345KV'	513	-0.00062	-0.09389	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	EMDE	'STATE LINE 161KV'	503	-0.00003	-0.09448	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	OKGE	'TINKER 5G 138KV'	31.99805	-0.00063	-0.09388	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	AEPW	'TULSA POWER STATION 138KV'	186	-0.00031	-0.0942	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	AEPW	'WELLETKA 138KV'	84	-0.00043	-0.09408	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	AEPW	'WELSH 345KV'	1044	-0.00028	-0.09423	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	AEPW	'WILKES 138KV'	349.5782	-0.00026	-0.09425	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	AEPW	'WILKES 345KV'	311	-0.00026	-0.09425	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	AEPW	'COMANCHE 138KV'	160	-0.00098	-0.09359	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	AEPW	'COMANCHE 69KV'	63	-0.00097	-0.0936	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	WERE	'GILL ENERGY CENTER 138KV'	155	-0.0015	-0.09307	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	WERE	'LAWRENCE ENERGY CENTER 230KV'	233.4716	-0.00138	-0.09319	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	AEPW	'SOUTHWESTERN STATION 138KV'	257	-0.00095	-0.09362	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	AEPW	'COMANCHE 138KV'	160	-0.00098	-0.09353	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	AEPW	'COMANCHE 69KV'	63	-0.00097	-0.09354	43

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

WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	WERE	'GILL ENERGY CENTER 138KV'	155	-0.0015	-0.09301	44
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	WERE	'LAWRENCE ENERGY CENTER 230KV'	233.4716	-0.00138	-0.09313	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	AEPW	'SOUTHWESTERN STATION 138KV'	257	-0.00095	-0.09356	43
WEPL	'CIMARRON RIVER 115KV'	47	-0.00816	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.0911	44
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	-0.00397	-0.0906	45
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	-0.00397	-0.09054	45
WERE	'TECUMSEH ENERGY CENTER 115KV'	52.99999	-0.00397	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08691	47
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.00445	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08739	46
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.0015	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08444	48
WERE	'GILL ENERGY CENTER 69KV'	118	-0.0013	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08424	48
WERE	'LAWRENCE ENERGY CENTER 230KV'	35.52844	-0.00138	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08432	48
AEPW	'ARSENAL HILL 69KV'	78.78613	-0.00223	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08317	49
AEPW	'COGENTRIX 345KV'	694	-0.00032	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08326	49
OKGE	'CONTINENTAL EMPIRE 138KV'	32	-0.00061	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08355	48
AEPW	'EASTMAN 138KV'	130.0042	-0.00025	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08319	49
WERE	'EVANS ENERGY CENTER 138KV'	467	-0.00077	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08371	48
WERE	'GETTY 69KV'	35	-0.00077	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08371	48
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	-0.01079	-0.08378	48
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	WEPL	'JUDSON LARGE 115KV'	105.5424	-0.01081	-0.08376	48
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	-0.01079	-0.08372	48
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	WEPL	'JUDSON LARGE 115KV'	105.5424	-0.01081	-0.0837	48
AEPW	'KIOWA 345KV'	1347.997	-0.00054	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08348	48
AEPW	'KNOXLEE 138KV'	198	-0.00025	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08319	49
AEPW	'LEBRONCK 345KV'	231.9996	-0.00025	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08319	49
AEPW	'LIEBERMAN 138KV'	154	-0.00023	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08317	49
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.00026	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.0832	49
AEPW	'MATTISON 161KV'	510	-0.00017	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08311	49
OKGE	'MCCLAIN 138KV'	42	-0.00066	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.0836	48
AEPW	'MID-CONTINENT 138KV'	142.102	-0.00022	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08316	49
OKGE	'MUSKOGEE 161KV'	31	-0.00028	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08322	49
AEPW	'OEC 345KV'	1928.026	-0.00029	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08323	49
OKGE	'ONE OAK 345KV'	36	-0.00064	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08358	48
OKGE	'RED ROCK 345KV'	1050	-0.00062	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08356	48
OKGE	'REDBUD 345KV'	949.9937	-0.00058	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08352	48
AEPW	'RIVER SIDE 138KV'	172	-0.00032	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08326	49
AEPW	'RIVERSIDE STATION 138KV'	82.00003	-0.00032	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08326	49
OKGE	'SOUTH 4TH ST 69KV'	42.7	-0.00068	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08362	48
AEPW	'SOUTHWESTERN STATION 138KV'	502	-0.00095	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08389	48
OKGE	'TINKER 5G 138KV'	30.00195	-0.00063	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08357	48
AEPW	'TULSA POWER STATION 138KV'	108	-0.00031	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08325	49
AEPW	'TULSA POWER STATION 69KV'	80	-0.00031	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08325	49
AEPW	'TURK 138KV'	608	-0.00028	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08322	49
AEPW	'WELLETKA 138KV'	58	-0.00043	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08337	48
AEPW	'WILKES 138KV'	113.4218	-0.00026	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.0832	49
MIPU	'ARIES 161KV'	594.9955	0.00062	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08232	49
WERE	'CHANUTE 69KV'	32.163	-0.00009	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08303	49
WERE	'EMPORIA 345KV'	518	0.00057	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08237	49
MIPU	'GREENWOOD 161KV'	79.80244	0.00064	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.0823	49
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	WEPL	'CLIFTON 115KV'	58.49084	-0.01181	-0.08276	49
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	WEPL	'CLIFTON 115KV'	58.49084	-0.01181	-0.0827	49
EMDE	'LARUSSEL 161KV'	180	0	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08294	49
KACP	'MARSHALL 161KV'	39.1	0.00046	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08248	49
MIPU	'RALPH GREEN 69KV'	73.7	0.00061	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08233	49
EMDE	'RIVERTON 161KV'	233.1039	-0.00004	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08298	49
EMDE	'STATE LINE 161KV'	103	-0.00003	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08297	49
KACP	'BULL CREEK 161KV'	65	0.00117	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08177	49
KACY	'KAW 69KV'	192	0.001	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08194	49
MIPU	'LAKE ROAD 161KV'	91	0.00116	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08178	49
KACP	'NORTHEAST 13KV'	209	0.00097	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08197	49
KACP	'NORTHEAST 161KV'	229	0.00097	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08197	49
KACY	'QUINDARO 161KV'	49.81839	0.001	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08194	49
KACY	'QUINDARO 69KV'	32	0.001	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08194	49
MIPU	'TWA 161KV'	32.1	0.00112	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.08182	49
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.09457	WEPL	'A. M. MULLERGRN GENERATOR 115KV'	63	0.01654	-0.07803	52
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09451	WEPL	'A. M. MULLERGRN GENERATOR 115KV'	63	0.01654	-0.07797	52
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.01113	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.07181	56
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23378	WERE	'BPU - CITY OF MCPHERSON 115KV'	104.9443	-0.16251	-0.07127	57
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05666	-0.16251	WERE	'HUTCHINSON ENERGY CENTER 115KV'	205	-0.09457	-0.06794	59
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	0.01717	WERE	'SMOKEY HILLS 34KV'	152	0.08294	-0.06577	61
MIDW	'lyons 115KV'	999	-0.01513	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.01717	-0.0323	124
MIDW	'pawnee 115KV'	999	-0.01513	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.01717	-0.0323	124
MIDW	'rice 115KV'	999	-0.01513	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.01717	-0.0323	124

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

Upgrade: RENO - SUMMIT 345KV & WICHITA - RENO 345KV
 Limiting Facility: EXIDE JUNCTION - SUMMIT 115KV CKT 1
 Direction: To->From
 Line Outage: NORTHVIEW - SUMMIT 115KV CKT 1
 Flowgate: 57368573811573715738112211SP
 Date Redispatch Needed: Starting 2009 6/1 - 10/1 Until EOC
 Season Flowgate Identified: 2011 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount
1140120	4.7	9.5
1161506	4.8	9.5

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.32448	30
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.0398	-0.25897	37
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01865	-0.23782	40
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.23127	42
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00997	-0.22914	42
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	WEPL	'A. M. MULLERGRN GENERATOR 115KV'	63	0.00913	-0.2283	42
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	0.00576	-0.22493	43
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	WEPL	'JUDSON LARGE 115KV'	111.547	0.00574	-0.22491	43
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	MIPU	'ARIES 161KV'	176.2461	0.00218	-0.22135	43
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	KACP	'BULL CREEK 161KV'	192.0293	0.00274	-0.22191	43

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

WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	KACP	'CITY OF HIGGINSVILLE 69KV'	34	0.00202	-0.22119	43
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	WERE	'EMPORIA 345KV'	610	0.00358	-0.22275	43
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	MIPU	'GREENWOOD 161KV'	189.4481	0.00221	-0.22138	43
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	KACP	'HAWTHORN 161KV'	769	0.00291	-0.22208	43
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	KACP	'IATAN 345KV'	396	0.00546	-0.22463	43
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	KACP	'IATAN 345KV'	1819	0.00546	-0.22463	43
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	MIPU	'LAKE ROAD 161KV'	35	0.00386	-0.22303	43
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	MIPU	'LAKE ROAD 34KV'	92	0.00386	-0.22303	43
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	WERE	'LAWRENCE ENERGY CENTER 230KV'	222.873	0.00287	-0.22204	43
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	KACP	'MONTROSE 161KV'	363.8085	0.00193	-0.2211	43
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	KACY	'NEARMAN 161KV'	77	0.00312	-0.22229	43
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	KACY	'NEARMAN 20KV'	220	0.00312	-0.22229	43
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	KACY	'QUINDARO 161KV'	140.2385	0.00311	-0.22228	43
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	KACY	'QUINDARO 69KV'	140	0.0031	-0.22227	43
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	MIPU	'SIBLEY 161KV'	229.0558	0.00258	-0.22175	43
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	MIPU	'SIBLEY 69KV'	45.99999	0.00266	-0.22183	43
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	MIPU	'SOUTH HARPER 161KV'	315	0.00212	-0.22129	43
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	OKGE	'AES 161KV'	320	-0.00158	-0.21759	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	EMDE	'ASBURY 161KV'	191	-0.00148	-0.21769	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	WEPL	'CLIFTON 115KV'	65	-0.00157	-0.2176	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	AEPW	'EASTMAN 138KV'	355.0089	-0.00138	-0.21779	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	AEPW	'FITZHUGH 161KV'	113.98	-0.00145	-0.21772	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	AEPW	'JL STALL 138KV'	455	-0.00127	-0.2179	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	AEPW	'KNOXLEE 138KV'	160.7747	-0.00137	-0.2178	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	EMDE	'LARUSSEL 161KV'	46.61621	-0.00122	-0.21795	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	AEPW	'LEBROCK 345KV'	365.0053	-0.00137	-0.2178	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	AEPW	'LIEBERMAN 138KV'	73.99999	-0.00129	-0.21788	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	AEPW	'PIRKEY GENERATION 138KV'	480	-0.00137	-0.2178	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	EMDE	'RIVERTON 161KV'	38	-0.00159	-0.21758	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	EMDE	'RIVERTON 69KV'	40.33317	-0.00155	-0.21762	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	EMDE	'STATE LINE 161KV'	503	-0.00153	-0.21764	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.00089	-0.22006	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	AEPW	'TURK 138KV'	443	-0.00151	-0.21766	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	AEPW	'WELSH 345KV'	1044	-0.00151	-0.21766	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	AEPW	'WILKES 138KV'	193.923	-0.00141	-0.21776	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	AEPW	'WILKES 345KV'	253	-0.0014	-0.21777	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	WERE	'CHANUTE 69KV'	58.843	-0.00254	-0.21663	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	WERE	'CITY OF BURLINGTON 69KV'	39.766	-0.0045	-0.21467	45
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	WERE	'CITY OF ERIE 69KV'	23.579	-0.00254	-0.21663	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	WERE	'CITY OF IOLA 69KV'	27.273	-0.0021	-0.21707	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	AEPW	'COGENTRIX 345KV'	200	-0.00251	-0.21666	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	AEPW	'COMANCHE 138KV'	160	-0.00288	-0.21629	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	AEPW	'COMANCHE 69KV'	63	-0.00288	-0.21629	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	AEPW	'FLINT CREEK 161KV'	428	-0.00188	-0.21729	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	OKGE	'HORSESHOE LAKE 138KV'	851.5	-0.00348	-0.21569	45
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	OKGE	'MCCLAIN 138KV'	478	-0.00353	-0.21564	45
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	OKGE	'MUSKOGEE 161KV'	166	-0.00216	-0.21701	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	OKGE	'MUSKOGEE 345KV'	1516	-0.00228	-0.21689	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	OKGE	'MUSTANG 138KV'	365.5	-0.00361	-0.21566	45
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	OKGE	'MUSTANG 69KV'	106	-0.00361	-0.21566	45
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	AEPW	'NARROWS 69KV'	22	-0.00168	-0.21749	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00243	-0.21674	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00241	-0.21676	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	AEPW	'OEC 345KV'	269.0035	-0.00241	-0.21676	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	OKGE	'ONE OAK 345KV'	300	-0.00392	-0.21525	45
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	OKGE	'REDBUD 345KV'	438.4026	-0.00349	-0.21568	45
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	AEPW	'RIVERSIDE STATION 138KV'	482	-0.0025	-0.21667	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	OKGE	'SEMINOLE 138KV'	477.0613	-0.00324	-0.21593	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	OKGE	'SEMINOLE 345KV'	996	-0.0033	-0.21587	45
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	OKGE	'SMITH COGEN 138KV'	120	-0.00359	-0.21558	45
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	OKGE	'SOONER 138KV'	505	-0.00466	-0.21451	45
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	OKGE	'SOONER 345KV'	513	-0.00477	-0.2144	45
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	OKGE	'SOUTH 4TH ST 69KV'	42.7	-0.00475	-0.21442	45
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	AEPW	'SOUTHWESTERN STATION 138KV'	172	-0.00292	-0.21625	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	OKGE	'TINKER 5G 138KV'	62	-0.00347	-0.2157	45
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	AEPW	'TULSA POWER STATION 138KV'	77	-0.00249	-0.21668	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	AEPW	'WEELETKA 138KV'	128	-0.00261	-0.21656	44
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	WERE	'CITY OF AUGUSTA 69KV'	24	-0.0079	-0.21127	45
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	WERE	'CITY OF WINFIELD 69KV'	37.87	-0.00714	-0.21203	45
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	EMDE	'ELK RIVER 345KV'	150	-0.00639	-0.21278	45
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	WERE	'EVANS ENERGY CENTER 138KV'	340	-0.01029	-0.20888	46
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	WERE	'GILL ENERGY CENTER 138KV'	155	-0.00906	-0.21011	46
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.21917	WERE	'HUTCHINSON ENERGY CENTER 115KV'	205	-0.0422	-0.17697	54
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.0398	-0.16576	58
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.14751	65
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.04213	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.14744	65
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01865	-0.14461	66
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00997	-0.13593	70
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	WEPL	'A. M. MULLERGEN GENERATOR 115KV'	63	0.00913	-0.13509	71
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	0.00576	-0.13172	73
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	KACP	'IATAN 345KV'	396	0.00546	-0.13142	73
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	KACP	'IATAN 345KV'	1819	0.00546	-0.13142	73
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	WEPL	'JUDSON LARGE 115KV'	111.547	0.00574	-0.1317	73
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	WERE	'EMPORIA 345KV'	610	0.00358	-0.12954	74
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	KACP	'HAWTHORN 161KV'	769	0.00291	-0.12887	74
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	MIPU	'LAKE ROAD 161KV'	35	0.00386	-0.12982	74
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	MIPU	'LAKE ROAD 34KV'	92	0.00386	-0.12982	74
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	KACY	'NEARMAN 161KV'	77	0.00312	-0.12908	74
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	KACY	'NEARMAN 20KV'	220	0.00312	-0.12908	74
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	KACY	'QUINDARO 161KV'	140.2385	0.00311	-0.12907	74
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	KACY	'QUINDARO 69KV'	140	0.0031	-0.12906	74
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	MIPU	'ARIES 161KV'	176.2461	0.00218	-0.12814	75
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	KACP	'BULL CREEK 161KV'	192.0293	0.00274	-0.1287	74
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	MIPU	'GREENWOOD 161KV'	189.4481	0.00221	-0.12817	75
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	WERE	'LAWRENCE ENERGY CENTER 230KV'	222.873	0.00287	-0.12883	74
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	KACP	'MONTROSE 161KV'	363.8085	0.00193	-0.12789	75
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	MIPU	'SIBLEY 161KV'	229.0558	0.00258	-0.12854	74
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	MIPU	'SIBLEY 69KV'	45.99999	0.00266	-0.12862	74
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	MIPU	'SOUTH HARPER 161KV'	315	0.00212	-0.12808	75
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.00089	-0.12685	75
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	OKGE	'AES 161KV'	320	-0.00158	-0.12438	77
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	EMDE	'ASBURY 161KV'	191	-0.00148	-0.12448	77
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	WEPL	'CLIFTON 115KV'	65	-0.00157	-0.12439	77

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

WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	AEPW	'EASTMAN 138KV'	355.0089	-0.00138	-0.12458	77
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	AEPW	'FITZHUGH 161KV'	113.98	-0.00145	-0.12451	77
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	AEPW	'JL STALL 138KV'	455	-0.00127	-0.12469	77
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	AEPW	'KNOXLEE 138KV'	160.7747	-0.00137	-0.12459	77
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	EMDE	'LARUSSEL 161KV'	46.61621	-0.00122	-0.12474	77
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	AEPW	'LEBROCK 345KV'	365.0053	-0.00137	-0.12459	77
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	AEPW	'LIEBERMAN 138KV'	73.99999	-0.00129	-0.12467	77
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	AEPW	'PIRKEY GENERATION 138KV'	480	-0.00137	-0.12459	77
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	EMDE	'RIVERTON 161KV'	38	-0.00159	-0.12437	77
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	EMDE	'RIVERTON 69KV'	40.33317	-0.00155	-0.12441	77
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	EMDE	'STATE LINE 161KV'	503	-0.00153	-0.12443	77
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	AEPW	'TURK 138KV'	443	-0.00151	-0.12445	77
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	AEPW	'WELSH 345KV'	1044	-0.00151	-0.12445	77
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	AEPW	'WILKES 138KV'	193.923	-0.00141	-0.12455	77
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	AEPW	'WILKES 345KV'	253	-0.0014	-0.12456	77
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	WERE	'CHANUTE 69KV'	58.843	-0.00254	-0.12342	77
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	AEPW	'COGENTRIX 345KV'	200	-0.00251	-0.12345	77
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	AEPW	'COMANCHE 138KV'	160	-0.00288	-0.12308	78
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	AEPW	'COMANCHE 69KV'	63	-0.00288	-0.12308	78
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	AEPW	'FLINT CREEK 161KV'	428	-0.00188	-0.12408	77
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	OKGE	'MUSKOGEE 161KV'	166	-0.00216	-0.1238	77
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	OKGE	'MUSKOGEE 345KV'	1516	-0.00228	-0.12368	77
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00243	-0.12353	77
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00241	-0.12355	77
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	AEPW	'OEC 345KV'	269.0035	-0.00241	-0.12355	77
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	AEPW	'RIVERSIDE STATION 138KV'	482	-0.0025	-0.12346	77
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	AEPW	'SOUTHWESTERN STATION 138KV'	172	-0.00292	-0.12304	78
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	AEPW	'TULSA POWER STATION 138KV'	77	-0.00249	-0.12347	77
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	AEPW	'WELEETKA 138KV'	128	-0.00261	-0.12335	78
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	OKGE	'HORSESHOE LAKE 138KV'	851.5	-0.00348	-0.12248	78
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	OKGE	'MCCLAIN 138KV'	478	-0.00353	-0.12243	78
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	OKGE	'MUSTANG 138KV'	365.5	-0.00361	-0.12235	78
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	OKGE	'MUSTANG 69KV'	106	-0.00361	-0.12235	78
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	OKGE	'ONE OAK 345KV'	300	-0.00392	-0.12204	78
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	OKGE	'REDBUD 345KV'	438.4026	-0.00349	-0.12247	78
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	OKGE	'SEMINOLE 138KV'	477.0613	-0.00324	-0.12272	78
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	OKGE	'SEMINOLE 345KV'	996	-0.0033	-0.12266	78
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	OKGE	'SMITH COGEN 138KV'	120	-0.00359	-0.12237	78
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	OKGE	'TINKER 5G 138KV'	62	-0.00347	-0.12249	78
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	WERE	'CITY OF BURLINGTON 69KV'	39.766	-0.0045	-0.12146	79
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	OKGE	'SOONER 138KV'	505	-0.00466	-0.1213	79
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	OKGE	'SOONER 345KV'	513	-0.00477	-0.12119	79
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	OKGE	'SOUTH 4TH ST 69KV'	42.7	-0.00475	-0.12121	79
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	EMDE	'ELK RIVER 345KV'	150	-0.00639	-0.11957	80
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	WERE	'GILL ENERGY CENTER 138KV'	155	-0.00906	-0.1169	82
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	WERE	'EVANS ENERGY CENTER 138KV'	340	-0.01029	-0.11567	83
WERE	'EVANS ENERGY CENTER 138KV'	467	-0.01029	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.1156	83
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.00906	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.11437	84
WERE	'GILL ENERGY CENTER 69KV'	118	-0.00902	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.11433	84
OKGE	'RED ROCK 345KV'	1050	-0.00477	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.11008	87
OKGE	'MCCLAIN 138KV'	42	-0.00353	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.10884	88
OKGE	'REDBUD 345KV'	761.5974	-0.00349	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.1088	88
AEPW	'COGENTRIX 345KV'	694	-0.00251	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.10782	89
AEPW	'KIOWA 345KV'	1347.994	-0.00273	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.10804	88
AEPW	'MID-CONTINENT 138KV'	142.0984	-0.00217	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.10748	89
AEPW	'OEC 345KV'	1878.026	-0.00241	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.10772	89
AEPW	'RIVER SIDE 138KV'	172	-0.0025	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.10781	89
AEPW	'RIVERSIDE STATION 138KV'	240	-0.0025	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.10781	89
AEPW	'SOUTHWESTERN STATION 138KV'	587	-0.00292	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.10823	88
AEPW	'TULSA POWER STATION 138KV'	217	-0.00249	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.1078	89
AEPW	'TULSA POWER STATION 69KV'	80	-0.00249	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.1078	89
AEPW	'EASTMAN 138KV'	130.0011	-0.00138	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.10669	90
AEPW	'KNOXLEE 138KV'	262.2253	-0.00137	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.10668	90
AEPW	'LEBROCK 345KV'	331.9947	-0.00137	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.10668	90
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.00143	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.10674	90
AEPW	'MATTISON 161KV'	510	-0.00192	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.10723	89
EMDE	'RIVERTON 161KV'	284	-0.00159	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.1069	89
EMDE	'STATE LINE 161KV'	103	-0.00153	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.10684	89
AEPW	'WILKES 138KV'	269.077	-0.00141	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.10672	90
AEPW	'WILKES 345KV'	58	-0.0014	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.10671	90
AEPW	'ARSENAL HILL 69KV'	99	-0.00127	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.10658	90
EMDE	'LARUSSEL 161KV'	249.3838	-0.00122	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.10653	90
AEPW	'LIEBERMAN 138KV'	154	-0.00129	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.1066	90
WERE	'TECUMSEH ENERGY CENTER 115KV'	52.99999	0.00089	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.10442	91
KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	0.00161	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.1037	92
MIPU	'ARIES 161KV'	418.7539	0.00218	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.10313	93
MIPU	'GREENWOOD 161KV'	58.35188	0.00221	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.1031	93
MIPU	'RALPH GREEN 69KV'	73.7	0.00212	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.10319	93
KACP	'BULL CREEK 161KV'	180.9707	0.00274	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.10257	93
KACY	'KAW 69KV'	192	0.00309	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.10222	93
WERE	'LAWRENCE ENERGY CENTER 230KV'	46.12704	0.00287	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.10244	93
KACP	'NORTHEAST 13KV'	229	0.00301	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.1023	93
KACP	'NORTHEAST 161KV'	229	0.00301	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.1023	93
KACY	'QUINDARO 161KV'	44.76152	0.00311	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.1022	93
WERE	'EMPORIA 345KV'	218	0.00358	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.10173	94
MIPU	'LAKE ROAD 161KV'	91	0.00386	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.10145	94
MIDW	'lyons 115kv'	999	0.00815	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.09716	98
MIDW	'pawnee 115kv'	999	0.00815	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.09716	98
MIDW	'rice 115kv'	999	0.00815	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.09716	98
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.12596	WERE	'HUTCHINSON ENERGY CENTER 115KV'	205	-0.0422	-0.08376	114
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.0398	-0.082	116
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.04213	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.0398	-0.08193	116
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	0.0398	WERE	'SMOKEY HILLS 34KV'	152	0.10531	-0.06551	146
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01865	-0.06085	157
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00997	-0.05217	183
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	WEPL	'JUDSON LARGE 115KV'	111.547	0.00574	-0.04794	199
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	KACP	'IATAN 345KV'	396	0.00546	-0.04766	200
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	KACP	'IATAN 345KV'	1819	0.00546	-0.04766	200
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	WERE	'EMPORIA 345KV'	610	0.00358	-0.04578	208
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	KACY	'NEARMAN 20KV'	220	0.00312	-0.04532	210
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	KACY	'QUINDARO 161KV'	140.2385	0.00311	-0.04531	210
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	KACY	'QUINDARO 69KV'	140	0.0031	-0.0453	210
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	KACP	'HAWTHORN 161KV'	769	0.00291	-0.04511	211

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

WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	KACP	'BULL CREEK 161KV'	192.0293	0.00274	-0.04494	212
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	WERE	'LAWRENCE ENERGY CENTER 230KV'	222.873	0.00287	-0.04507	211
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	MIPU	'SIBLEY 161KV'	229.0558	0.00258	-0.04478	213
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	MIPU	'ARIES 161KV'	176.2461	0.00218	-0.04438	215
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	MIPU	'GREENWOOD 161KV'	189.4481	0.00221	-0.04441	214
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	MIPU	'SOUTH HARPER 161KV'	315	0.00212	-0.04432	215
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	KACP	'MONTROSE 161KV'	363.8085	0.00193	-0.04413	216
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.00089	-0.04309	221
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	AEPW	'JL STALL 138KV'	455	-0.00127	-0.04093	233
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	AEPW	'EASTMAN 138KV'	355.0089	-0.00138	-0.04082	233
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	AEPW	'KNOXLEE 138KV'	160.7747	-0.00137	-0.04083	233
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	AEPW	'LEBROCK 345KV'	365.0053	-0.00137	-0.04083	233
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	AEPW	'PIRKEY GENERATION 138KV'	480	-0.00137	-0.04083	233
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	AEPW	'WILKES 138KV'	193.923	-0.00141	-0.04079	233
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	AEPW	'WILKES 345KV'	253	-0.0014	-0.0408	233
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	EMDE	'ASBURY 161KV'	191	-0.00148	-0.04072	234
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	AEPW	'FITZHUGH 161KV'	113.98	-0.00145	-0.04075	234
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	EMDE	'STATE LINE 161KV'	503	-0.00153	-0.04067	234
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	AEPW	'TURK 138KV'	443	-0.00151	-0.04069	234
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	AEPW	'WELSH 345KV'	1044	-0.00151	-0.04069	234
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	OKGE	'AES 161KV'	320	-0.00158	-0.04062	234
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	AEPW	'FLINT CREEK 161KV'	428	-0.00188	-0.04032	236
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	OKGE	'MUSKOGEE 161KV'	166	-0.00216	-0.04004	238
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	OKGE	'MUSKOGEE 345KV'	1516	-0.00228	-0.03992	238
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00243	-0.03977	239
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00241	-0.03979	239
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	AEPW	'OEC 345KV'	268.0035	-0.00241	-0.03979	239
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	AEPW	'RIVERSIDE STATION 138KV'	482	-0.0025	-0.0397	240
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	AEPW	'COGENTRIX 345KV'	200	-0.00251	-0.03969	240
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	AEPW	'WEELETKA 138KV'	128	-0.00261	-0.03959	240
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	AEPW	'COMANCHE 138KV'	160	-0.00288	-0.03932	242
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	AEPW	'SOUTHWESTERN STATION 138KV'	172	-0.00292	-0.03928	242
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	OKGE	'SEMINOLE 138KV'	477.0613	-0.00324	-0.03896	244
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	OKGE	'SEMINOLE 345KV'	996	-0.0033	-0.0389	245
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	OKGE	'HORSESHOE LAKE 138KV'	851.5	-0.00348	-0.03872	246
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	OKGE	'REDBUD 345KV'	438.4026	-0.00349	-0.03871	246
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	OKGE	'MCCLAIN 138KV'	478	-0.00353	-0.03867	246
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	OKGE	'MUSTANG 138KV'	365.5	-0.00361	-0.03859	247
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	OKGE	'SMITH COGEN 138KV'	120	-0.00359	-0.03861	247
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	OKGE	'ONE OAK 345KV'	300	-0.00392	-0.03828	249
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	OKGE	'SOONER 138KV'	505	-0.00466	-0.03754	254
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	OKGE	'SOONER 345KV'	513	-0.00477	-0.03743	254
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	EMDE	'ELK RIVER 345KV'	150	-0.00639	-0.03581	266
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	WERE	'GILL ENERGY CENTER 138KV'	155	-0.00906	-0.03314	287
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.0422	WERE	'EVANS ENERGY CENTER 138KV'	340	-0.01029	-0.03191	298

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

Upgrade: RENO - SUMMIT 345KV & WICHITA - RENO 345KV
 Limiting Facility: NORTHVIEW - SUMMIT 115KV CKT 1
 Direction: To->From
 Line Outage: EXIDE JUNCTION - SUMMIT 115KV CKT 1
 Flowgate: 57371573811573685738112208SP
 Date Redispatch Needed: Starting 2008 6/1 - 10/1 Until EOC
 Season Flowgate Identified: 2008 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount	Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
1161506	1.6	1.6	WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.44745	4
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	WEPL	'A. M. MULLERGEN GENERATOR 115KV'	63	-0.006	-0.35974	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	OKGE	'AES 161KV'	320	-0.00016	-0.36558	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	AEPW	'ARSENAL HILL 69KV'	11.21387	-0.00013	-0.36561	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	EMDE	'ASBURY 161KV'	191	-0.00013	-0.36561	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	KACP	'BULL CREEK 161KV'	308	0.00057	-0.36631	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	WERE	'CHANUTE 69KV'	55.637	-0.00024	-0.3655	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00082	-0.36492	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	WERE	'CITY OF BURLINGTON 69KV'	34.061	-0.00034	-0.3654	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	WERE	'CITY OF ERIE 69KV'	23.374	-0.00024	-0.3655	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	WERE	'CITY OF FREDONIA 69KV'	3.596	-0.0003	-0.36544	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	WERE	'CITY OF GIRARD 69KV'	4.592	-0.00016	-0.36558	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	KACP	'CITY OF HIGGINSVILLE 69KV'	35	0.00021	-0.36595	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	WERE	'CITY OF IOLA 69KV'	24.471	-0.00019	-0.36555	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	WERE	'CITY OF MULVANE 69KV'	8.29	-0.00088	-0.36486	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	WERE	'CITY OF NEODESHA 69KV'	4.495	-0.00029	-0.36545	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	WERE	'CITY OF WINFIELD 69KV'	26.77	-0.0007	-0.36504	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	WEPL	'CLIFTON 115KV'	58.49084	-0.01161	-0.35413	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	-0.00034	-0.3654	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	AEPW	'COGENTRIX 345KV'	200	-0.00024	-0.3655	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	MIDW	'COLBY 115KV'	2.743789	0.00348	-0.36922	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	AEPW	'COMANCHE 138KV'	160	-0.0004	-0.36534	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	AEPW	'COMANCHE 69KV'	63	-0.0004	-0.36534	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	AEPW	'EASTMAN 138KV'	355.0058	-0.00014	-0.3656	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	EMDE	'ELK RIVER 345KV'	150	-0.0005	-0.36524	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	WERE	'EMPORIA 345KV'	310	-0.00032	-0.36542	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	WERE	'EVANS ENERGY CENTER 138KV'	340	-0.00078	-0.36496	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	AEPW	'FITZHUGH 161KV'	126	-0.00014	-0.3656	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	AEPW	'FLINT CREEK 161KV'	428	-0.00018	-0.36556	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	OKGE	'FPLWND2 34KV'	23.001	-0.00044	-0.3653	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	AEPW	'FULTON 115KV'	24.99999	-0.00014	-0.3656	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	WERE	'GILL ENERGY CENTER 138KV'	155	-0.00119	-0.36455	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.0228	-0.38854	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	-0.00386	-0.36188	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	MIPU	'GREENWOOD 161KV'	169.9976	0.00012	-0.36586	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	KACP	'HAWTHORN 161KV'	769	0.00042	-0.36616	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	OKGE	'HORSESHOE LAKE 138KV'	851.5	-0.00035	-0.36539	5
			WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	OKGE	'HORSESHOE LAKE 69KV'	16	-0.00034	-0.3654	5

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

WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	KACP	'IATAN 345KV'	396	0.00157	-0.36731	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00081	-0.36655	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00942	-0.37516	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	WEPL	'JUDSON LARGE 115KV'	105.5424	-0.00388	-0.36186	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	AEPW	'KNOXLEE 138KV'	225	-0.00014	-0.36556	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	AEPW	'LD13 69KV'	11	-0.00016	-0.36558	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	KACP	'LACYGNE UNIT 345KV'	958	-0.00001	-0.36573	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	MIPU	'LAKE ROAD 161KV'	35	0.00077	-0.36651	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	MIPU	'LAKE ROAD 34KV'	92	0.00077	-0.36651	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	EMDE	'LARUSSEL 161KV'	116	-0.00011	-0.36563	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	WERE	'LAWRENCE ENERGY CENTER 230KV'	233.4716	-0.00245	-0.36329	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	AEPW	'LEBROCK 345KV'	465.0004	-0.00014	-0.36556	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	AEPW	'LIEBERMAN 138KV'	73.99999	-0.00014	-0.36556	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	KACP	'MARSHALL 161KV'	15	0.00019	-0.36593	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	OKGE	'MCCLAIN 138KV'	478	-0.00036	-0.36538	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	KACP	'MONTROSE 161KV'	355.3524	0.00016	-0.3659	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	OKGE	'MUSKOGEE 161KV'	166	-0.00021	-0.36553	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	OKGE	'MUSKOGEE 345KV'	1516	-0.00022	-0.36552	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	OKGE	'MUSTANG 138KV'	365.5	-0.00036	-0.36538	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	OKGE	'MUSTANG 69KV'	106	-0.00036	-0.36538	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	AEPW	'NARROWS 69KV'	22	-0.00018	-0.36556	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	KACY	'NEARMAN 161KV'	77	0.00042	-0.36616	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	KACY	'NEARMAN 20KV'	220	0.00042	-0.36616	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00023	-0.36551	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00023	-0.36551	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	AEPW	'OEC 345KV'	219.0044	-0.00023	-0.36551	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	OKGE	'ONE OAK 345KV'	300	-0.00037	-0.36537	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	EMDE	'OZARK BEACH 161KV'	16	-0.00009	-0.36565	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	KACP	'PAOLA COMBUSTION TURBINES 161KV'	63.0542	0.00023	-0.36597	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	AEPW	'PIRKEY GENERATION 138KV'	490	-0.00014	-0.36556	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	KACY	'QUINDARO 161KV'	135.1816	0.00043	-0.36617	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	KACY	'QUINDARO 69KV'	140	0.00043	-0.36617	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	OKGE	'REDBUD 345KV'	250.0063	-0.00034	-0.3654	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	AEPW	'RIVERSIDE STATION 138KV'	640	-0.00024	-0.3655	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	EMDE	'RIVERTON 161KV'	88.89612	-0.00014	-0.36556	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	EMDE	'RIVERTON 69KV'	42.51023	-0.00014	-0.36556	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	OKGE	'SEMINOLE 138KV'	482.8771	-0.00034	-0.3654	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	OKGE	'SEMINOLE 345KV'	996	-0.00034	-0.3654	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	MIPU	'SIBLEY 161KV'	231.5886	0.00031	-0.36605	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	MIPU	'SIBLEY 69KV'	45.99999	0.00034	-0.36608	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	OKGE	'SMITH COGEN 138KV'	120	-0.00036	-0.36538	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	OKGE	'SOONER 138KV'	505	-0.00041	-0.36533	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	OKGE	'SOONER 345KV'	513	-0.00041	-0.36533	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	MIPU	'SOUTH HARPER 161KV'	315	0.00002	-0.36576	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	AEPW	'SOUTHWESTERN STATION 138KV'	257	-0.0004	-0.36534	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	EMDE	'STATE LINE 161KV'	503	-0.00014	-0.36556	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	WERE	'TUCUMSEH ENERGY CENTER 115KV'	108	-0.00015	-0.36559	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	OKGE	'TINKER 5G 138KV'	31.99805	-0.00035	-0.36539	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	AEPW	'TULSA POWER STATION 138KV'	186	-0.00024	-0.3655	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	WERE	'WACO 138KV'	17.967	-0.00115	-0.36459	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	AEPW	'WEELETKA 138KV'	84	-0.00027	-0.36547	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	AEPW	'WELSH 345KV'	1044	-0.00016	-0.36558	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	AEPW	'WILKES 138KV'	348.5782	-0.00015	-0.36559	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	AEPW	'WILKES 345KV'	311	-0.00015	-0.36559	5
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.32293	5
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	WERE	'HUTCHINSON ENERGY CENTER 115KV'	205	-0.06758	-0.29816	6
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.0228	-0.26402	7
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.36574	WERE	'BPU - CITY OF MCPHERSON 115KV'	104.9443	-0.12249	-0.24325	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	WEPL	'A. M. MULLERGRN GENERATOR 115KV'	63	-0.006	-0.23522	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	OKGE	'AES 161KV'	320	-0.00016	-0.24106	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	AEPW	'ARSENAL HILL 69KV'	11.21387	-0.00013	-0.24109	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	EMDE	'ASBURY 161KV'	191	-0.00013	-0.24109	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	KACP	'BULL CREEK 161KV'	308	0.00057	-0.24179	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	WERE	'CHANUTE 69KV'	55.637	-0.00024	-0.24098	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00082	-0.2404	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	WERE	'CITY OF BURLINGTON 69KV'	34.061	-0.00034	-0.24088	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	WERE	'CITY OF ERIE 69KV'	23.374	-0.00024	-0.24098	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	WERE	'CITY OF GIRARD 69KV'	4.592	-0.00016	-0.24106	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	KACP	'CITY OF HIGGINSVILLE 69KV'	35	0.00021	-0.24143	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	WERE	'CITY OF IOLA 69KV'	24.471	-0.00019	-0.24103	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	WERE	'CITY OF MULVANE 69KV'	8.29	-0.00088	-0.24034	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	WERE	'CITY OF NEODESHA 69KV'	4.495	-0.00029	-0.24093	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	WERE	'CITY OF WINFIELD 69KV'	26.77	-0.0007	-0.24052	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	-0.00034	-0.24088	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	AEPW	'COGENTRIX 345KV'	200	-0.00024	-0.24098	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	AEPW	'COMANCHE 138KV'	160	-0.0004	-0.24082	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	AEPW	'COMANCHE 69KV'	63	-0.0004	-0.24082	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	AEPW	'EASTMAN 138KV'	355.0058	-0.00014	-0.24108	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	EMDE	'ELK RIVER 345KV'	150	-0.0005	-0.24072	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	WERE	'EMPORIA 345KV'	310	-0.00032	-0.2409	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	WERE	'EVANS ENERGY CENTER 138KV'	340	-0.00078	-0.24044	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	AEPW	'FITZHUGH 161KV'	126	-0.00014	-0.24108	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	AEPW	'FLINT CREEK 161KV'	428	-0.00018	-0.24104	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	OKGE	'FPLWIND2 34KV'	23.001	-0.00044	-0.24078	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	AEPW	'FULTON 115KV'	24.99999	-0.00014	-0.24108	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	WERE	'GILL ENERGY CENTER 138KV'	155	-0.00119	-0.24003	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	-0.00386	-0.23736	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	MIPU	'GREENWOOD 161KV'	169.9976	0.00012	-0.24134	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	KACP	'HAWTHORN 161KV'	769	0.00042	-0.24164	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	OKGE	'HORSESHOE LAKE 138KV'	851.5	-0.00035	-0.24087	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	OKGE	'HORSESHOE LAKE 69KV'	16	-0.00034	-0.24088	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	KACP	'IATAN 345KV'	396	0.00157	-0.36731	5
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00081	-0.36655	5
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00942	-0.37516	5
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	WEPL	'JUDSON LARGE 115KV'	105.5424	-0.00388	-0.36186	5
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	AEPW	'KNOXLEE 138KV'	225	-0.00014	-0.36556	5
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	AEPW	'LD13 69KV'	11	-0.00016	-0.36558	5
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	KACP	'LACYGNE UNIT 345KV'	958	-0.00001	-0.36573	5
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	MIPU	'LAKE ROAD 161KV'	35	0.00077	-0.36651	5
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	MIPU	'LAKE ROAD 34KV'	92	0.00077	-0.36651	5
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	EMDE	'LARUSSEL 161KV'	116	-0.00011	-0.36563	5
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	WERE	'LAWRENCE ENERGY CENTER 230KV'	233.4716	-0.00245	-0.36329	5
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	AEPW	'LEBROCK 345KV'	465.0004	-0.00014	-0.36556	5

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

WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	AEPW	'LIEBERMAN 138KV'	73.99999	-0.00014	-0.24108	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	KACP	'MARSHALL 161KV'	15	0.00019	-0.24141	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	OKGE	'MCCLAIN 138KV'	478	-0.00036	-0.24086	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	KACP	'MONROSE 161KV'	355.3524	0.00016	-0.24138	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	OKGE	'MUSKOGEE 161KV'	166	-0.00021	-0.24101	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	OKGE	'MUSKOGEE 345KV'	1516	-0.00022	-0.241	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	OKGE	'MUSTANG 138KV'	365.5	-0.00036	-0.24086	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	OKGE	'MUSTANG 69KV'	106	-0.00036	-0.24086	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	AEPW	'NARROWS 69KV'	22	-0.00018	-0.24104	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	KACY	'NEARMAN 161KV'	77	0.00042	-0.24164	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	KACY	'NEARMAN 20KV'	220	0.00042	-0.24164	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00023	-0.24099	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00023	-0.24099	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	AEPW	'OEC 345KV'	219.0044	-0.00023	-0.24099	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	OKGE	'ONE OAK 345KV'	300	-0.00037	-0.24085	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	EMDE	'OZARK BEACH 161KV'	16	-0.00009	-0.24113	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	KACP	'PAOLA COMBUSTION TURBINES 161KV'	63.0542	0.00023	-0.24145	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	AEPW	'PIRKEY GENERATION 138KV'	490	-0.00014	-0.24108	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	KACY	'QUINDARO 161KV'	135.1816	0.00043	-0.24165	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	KACY	'QUINDARO 69KV'	140	0.00043	-0.24165	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	OKGE	'REDBUD 345KV'	250.0063	-0.00034	-0.24088	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	AEPW	'RIVERSIDE STATION 138KV'	640	-0.00024	-0.24098	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	EMDE	'RIVERTON 161KV'	88.89612	-0.00014	-0.24108	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	EMDE	'RIVERTON 69KV'	42.51023	-0.00014	-0.24108	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	OKGE	'SEMINOLE 138KV'	482.8771	-0.00034	-0.24088	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	OKGE	'SEMINOLE 345KV'	996	-0.00034	-0.24088	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	MIPU	'SIBLEY 161KV'	231.5886	0.00031	-0.24153	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	MIPU	'SIBLEY 69KV'	45.99999	0.00034	-0.24156	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	OKGE	'SMITH COGEN 138KV'	120	-0.00036	-0.24086	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	OKGE	'SOONER 138KV'	505	-0.00041	-0.24081	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	OKGE	'SOONER 345KV'	513	-0.00041	-0.24081	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	MIPU	'SOUTH HARPER 161KV'	315	0.00002	-0.24124	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	AEPW	'SOUTHWESTERN STATION 138KV'	257	-0.0004	-0.24082	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	EMDE	'STATE LINE 161KV'	503	-0.00014	-0.24108	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	-0.00015	-0.23607	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	OKGE	'TINKER 5G 138KV'	31.99805	-0.00035	-0.24087	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	AEPW	'TULSA POWER STATION 138KV'	186	-0.00024	-0.24098	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	WERE	'WACO 138KV'	17.967	-0.00115	-0.24007	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	AEPW	'WELEETKA 138KV'	84	-0.00027	-0.24095	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	AEPW	'WELSH 345KV'	1044	-0.00016	-0.24106	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	AEPW	'WILKES 138KV'	349.5782	-0.00015	-0.24107	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	AEPW	'WILKES 345KV'	311	-0.00015	-0.24107	7
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	WEPL	'CLIFTON 115KV'	58.49084	-0.01161	-0.22961	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.2042	8
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	WERE	'HUTCHINSON ENERGY CENTER 115KV'	205	-0.06758	-0.17364	10
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.0228	-0.14529	12
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.14929	11
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.14924	11
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00942	-0.13191	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	OKGE	'AES 161KV'	320	-0.00016	-0.12233	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	AEPW	'ARSENAL HILL 69KV'	11.21387	-0.00013	-0.12236	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	EMDE	'ASBURY 161KV'	191	-0.00013	-0.12236	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	KACP	'BULL CREEK 161KV'	308	0.00057	-0.12306	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	WERE	'CHANUTE 69KV'	55.637	-0.00024	-0.12225	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00082	-0.12167	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	WERE	'CITY OF BURLINGTON 69KV'	34.061	-0.00034	-0.12215	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	WERE	'CITY OF ERIE 69KV'	23.374	-0.00024	-0.12225	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	KACP	'CITY OF HIGGINSVILLE 69KV'	35	0.00021	-0.1227	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	WERE	'CITY OF IOLA 69KV'	24.471	-0.00019	-0.1223	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	WERE	'CITY OF MULVANE 69KV'	8.29	-0.00088	-0.12161	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	WERE	'CITY OF WINFIELD 69KV'	26.77	-0.0007	-0.12179	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	-0.00034	-0.12215	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	AEPW	'COGENTRIX 345KV'	200	-0.00024	-0.12225	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	AEPW	'COMANCHE 138KV'	160	-0.0004	-0.12209	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	AEPW	'COMANCHE 69KV'	63	-0.0004	-0.12209	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	AEPW	'EASTMAN 138KV'	355.0058	-0.00014	-0.12235	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	EMDE	'ELK RIVER 345KV'	150	-0.0005	-0.12199	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	WERE	'EMPORIA 345KV'	310	-0.00032	-0.12217	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	WERE	'EVANS ENERGY CENTER 138KV'	340	-0.00078	-0.12171	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	AEPW	'FITZHUGH 161KV'	126	-0.00014	-0.12235	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	AEPW	'FLINT CREEK 161KV'	428	-0.00018	-0.12231	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	OKGE	'FPLWIND2 34KV'	23.001	-0.00044	-0.12205	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	AEPW	'FULTON 115KV'	24.99999	-0.00014	-0.12235	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	WERE	'GILL ENERGY CENTER 138KV'	155	-0.00019	-0.1213	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	MIPU	'GREENWOOD 161KV'	169.9976	0.00012	-0.12261	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	KACP	'HAWTHORN 161KV'	769	0.00042	-0.12291	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	OKGE	'HORSESHOE LAKE 138KV'	851.5	-0.00035	-0.12214	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	OKGE	'HORSESHOE LAKE 69KV'	16	-0.00034	-0.12215	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	KACP	'IATAN 345KV'	396	0.00157	-0.12406	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00081	-0.1233	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	AEPW	'KNOXLEE 138KV'	225	-0.00014	-0.12235	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	AEPW	'LD13 69KV'	11	-0.00016	-0.12233	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	KACP	'LACYGNE UNIT 345KV'	958	-0.00001	-0.12248	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	MIPU	'LAKE ROAD 161KV'	35	0.00077	-0.12326	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	MIPU	'LAKE ROAD 34KV'	92	0.00077	-0.12326	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	EMDE	'LARUSSEL 161KV'	116	-0.00011	-0.12238	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	WERE	'LAWRENCE ENERGY CENTER 230KV'	233.4718	-0.00245	-0.12004	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	AEPW	'LEBROCK 345KV'	465.0004	-0.00014	-0.12235	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	AEPW	'LIEBERMAN 138KV'	73.99999	-0.00014	-0.12235	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	KACP	'MARSHALL 161KV'	15	0.00019	-0.12268	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	OKGE	'MCCLAIN 138KV'	478	-0.00036	-0.12213	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	KACP	'MONROSE 161KV'	355.3524	0.00016	-0.12265	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	OKGE	'MUSKOGEE 161KV'	166	-0.00021	-0.12228	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	OKGE	'MUSKOGEE 345KV'	1516	-0.00022	-0.12227	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	OKGE	'MUSTANG 138KV'	365.5	-0.00036	-0.12213	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	OKGE	'MUSTANG 69KV'	106	-0.00036	-0.12213	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	AEPW	'NARROWS 69KV'	22	-0.00018	-0.12231	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	KACY	'NEARMAN 161KV'	77	0.00042	-0.12291	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	KACY	'NEARMAN 20KV'	220	0.00042	-0.12291	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00023	-0.12226	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00023	-0.12226	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	AEPW	'OEC 345KV'	219.0044	-0.00023	-0.12226	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	OKGE	'ONE OAK 345KV'	300	-0.00037	-0.12212	14

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

WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	EMDE	'OZARK BEACH 161KV'	16	-0.00009	-0.1224	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	KACP	'PAOLA COMBUSTION TURBINES 161KV'	63.0542	0.00023	-0.12272	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	AEPW	'PIRKEY GENERATION 138KV'	490	-0.00014	-0.12235	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	KACY	'QUINDARO 161KV'	135.1816	0.00043	-0.12292	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	KACY	'QUINDARO 69KV'	140	0.00043	-0.12292	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	OKGE	'REDBUD 345KV'	250.0063	-0.00034	-0.12215	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	AEPW	'RIVERSIDE STATION 138KV'	640	-0.00024	-0.12225	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	EMDE	'RIVERTON 161KV'	88.89612	-0.00014	-0.12235	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	EMDE	'RIVERTON 69KV'	42.51023	-0.00014	-0.12235	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	OKGE	'SEMINOLE 138KV'	482.8771	-0.00034	-0.12215	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	OKGE	'SEMINOLE 345KV'	996	-0.00034	-0.12215	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	MIPU	'SIBLEY 161KV'	231.5886	0.00031	-0.1228	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	MIPU	'SIBLEY 69KV'	45.99999	0.00034	-0.12283	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	OKGE	'SMITH COGEN 138KV'	120	-0.00036	-0.12213	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	OKGE	'SOONER 138KV'	505	-0.00041	-0.12208	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	OKGE	'SOONER 345KV'	513	-0.00041	-0.12208	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	MIPU	'SOUTH HARPER 161KV'	315	0.00002	-0.12251	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	AEPW	'SOUTHWESTERN STATION 138KV'	257	-0.0004	-0.12209	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	EMDE	'STATE LINE 161KV'	503	-0.00014	-0.12235	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	OKGE	'TINKER 5G 138KV'	31.99805	-0.00035	-0.12214	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	AEPW	'TULSA POWER STATION 138KV'	186	-0.00024	-0.12225	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	WERE	'WACO 138KV'	17.967	-0.00115	-0.12134	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	AEPW	'WEELETKA 138KV'	84	-0.00027	-0.12222	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	AEPW	'WELSH 345KV'	1044	-0.00016	-0.12233	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	AEPW	'WILKES 138KV'	349.5782	-0.00015	-0.12234	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	AEPW	'WILKES 345KV'	311	-0.00015	-0.12234	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	WEPL	'A. M. MULLERGRN GENERATOR 115KV'	63	-0.006	-0.11649	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	-0.00386	-0.11863	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	WEPL	'JUDSON LARGE 115KV'	105.5424	-0.00388	-0.11861	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	-0.00515	-0.11734	14
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.24122	WERE	'BPU - CITY OF MCPHERSON 115KV'	104.9443	-0.12249	-0.11873	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	WEPL	'CLIFTON 115KV'	58.49084	-0.01161	-0.11088	15
WEPL	'BELOIT 115KV'	16.6	-0.01146	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.09317	18
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.0228	-0.09038	18
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.0228	-0.09033	18
WEPL	'NORTH WEST GREAT BEND 115KV'	14.24	-0.006	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08771	19
WEPL	'HARPER 138KV'	17.21	-0.00564	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08735	19
MIDW	'lyons 115kv'	999	-0.00538	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08709	19
MIDW	'pawnee 115kv'	999	-0.00538	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08709	19
MIDW	'rice 115kv'	999	-0.00538	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08709	19
WEPL	'RUSSELL 115KV'	27.9	-0.0058	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08751	19
WERE	'SOUTH SENECA 115KV'	16.7	-0.00369	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.0854	19
WERE	'TECUMSEH ENERGY CENTER 115KV'	52.99999	-0.00515	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08686	19
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.00568	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08739	19
WEPL	'CIMARRON RIVER 115KV'	47	-0.00224	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08395	20
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.00119	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.0829	20
WERE	'GILL ENERGY CENTER 69KV'	118	-0.00108	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08279	20
WERE	'LAWRENCE ENERGY CENTER 230KV'	35.52844	-0.00245	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08416	20
MIPU	'ARIES 161KV'	594.9955	0.0001	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08161	20
AEPW	'ARSENAL HILL 69KV'	78.78613	-0.00013	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08184	20
EMDE	'ASBURY 161KV'	20	-0.00013	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08184	20
KACP	'BULL CREEK 161KV'	65	0.00057	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08114	20
WERE	'CHANUTE 69KV'	32.163	-0.00024	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08195	20
WERE	'CITY OF BURLINGTON 69KV'	21.939	-0.00034	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08205	20
WERE	'CITY OF IOLA 69KV'	13.157	-0.00019	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.0819	20
WERE	'CITY OF WINFIELD 69KV'	13.23	-0.0007	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08241	20
AEPW	'COGENTRIX 345KV'	694	-0.00024	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08195	20
OKGE	'CONTINENTAL EMPIRE 138KV'	32	-0.00041	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08212	20
AEPW	'EASTMAN 138KV'	130.0042	-0.00014	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08185	20
WERE	'EMPORIA 345KV'	518	-0.00032	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08203	20
WERE	'EVANS ENERGY CENTER 138KV'	467	-0.00078	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08249	20
WERE	'GETTY 69KV'	35	-0.00087	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08258	20
MIPU	'GREENWOOD 161KV'	79.80244	0.00012	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08159	20
WERE	'HOLTON 115KV'	19.8	-0.00042	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08213	20
WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.00081	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.0809	20
KACY	'KAW 69KV'	192	0.00043	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08128	20
AEPW	'KIOWA 345KV'	1347.997	-0.00029	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.082	20
AEPW	'KNOXLEE 138KV'	198	-0.00014	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08185	20
AEPW	'L&D13 69KV'	13	-0.00016	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08187	20
MIPU	'LAKE ROAD 161KV'	91	0.00077	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08094	20
EMDE	'LARUSSEL 161KV'	180	-0.00011	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08182	20
AEPW	'LEBROCK 345KV'	231.9996	-0.00014	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08185	20
AEPW	'LIEBERMAN 138KV'	154	-0.00014	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08185	20
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.00015	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08186	20
KACP	'MARSHALL 161KV'	39.1	0.00019	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08152	20
AEPW	'MATTISON 161KV'	510	-0.00017	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08188	20
OKGE	'MCCLEIN 138KV'	42	-0.00036	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08207	20
AEPW	'MID-CONTINENT 138KV'	142.102	-0.00021	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08192	20
KACP	'MONTROSE 161KV'	25.64758	0.00016	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08155	20
OKGE	'MUSKOGEE 161KV'	31	-0.00021	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08192	20
OKGE	'MUSKOGEE 345KV'	20	-0.00022	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08193	20
KACY	'NEARMAN 20KV'	14.99998	0.00042	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08129	20
MIPU	'NEVADA 69KV'	20.3	0.00006	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08165	20
KACP	'NORTHEAST 13KV'	209	0.00044	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08127	20
KACP	'NORTHEAST 161KV'	229	0.00044	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08127	20
OKGE	'OEC 345KV'	1928.026	-0.00023	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08194	20
AEPW	'ONE OAK 345KV'	36	-0.00037	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08208	20
KACP	'PAOLA COMBUSTION TURBINES 161KV'	13.9458	0.00023	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08148	20
AEPW	'PIRKEY GENERATION 138KV'	25	-0.00014	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08185	20
KACY	'QUINDARO 161KV'	49.81839	0.00043	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08128	20
KACY	'QUINDARO 69KV'	32	0.00043	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08128	20
MIPU	'RALPH GREEN 69KV'	73.7	0.0001	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08161	20
OKGE	'RED ROCK 345KV'	1050	-0.00041	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08212	20
OKGE	'REDBUD 345KV'	949.9937	-0.00034	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08205	20
AEPW	'RIVER SIDE 138KV'	172	-0.00024	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08195	20
AEPW	'RIVERSIDE STATION 138KV'	82.00003	-0.00024	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08195	20
EMDE	'RIVERTON 161KV'	233.1039	-0.00014	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08185	20
EMDE	'RIVERTON 69KV'	25.48977	-0.00014	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08185	20
OKGE	'SEMINOLE 138KV'	22.12292	-0.00034	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08205	20
MIPU	'SIBLEY 161KV'	18.41138	0.00031	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.0814	20
OKGE	'SOONER 138KV'	24.99997	-0.00041	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08212	20
OKGE	'SOUTH 4TH ST 69KV'	42.7	-0.00042	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08213	20
AEPW	'SOUTHWESTERN STATION 138KV'	502	-0.0004	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08211	20

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

EMDE	'STATE LINE 161KV'	103	-0.0014	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08185	20
OKGE	'TINKER 5G 138KV'	30.00195	-0.0035	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08206	20
AEPW	'TULSA POWER STATION 138KV'	108	-0.0024	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08195	20
AEPW	'TULSA POWER STATION 69KV'	80	-0.0024	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08195	20
AEPW	'TURK 138KV'	608	-0.0016	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08187	20
MIPU	'TWA 161KV'	32.1	0.0058	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08113	20
AEPW	'WELEETKA 138KV'	58	-0.0027	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08198	20
AEPW	'WILKES 138KV'	113.4218	-0.0015	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.08186	20
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00942	-0.077	21
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00942	-0.07695	21
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.00942	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.07729	23
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	KACP	'IATAN 345KV'	396	0.00157	-0.06815	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	KACP	'IATAN 345KV'	396	0.00157	-0.0691	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	EMDE	'ASBURY 161KV'	191	-0.0013	-0.06745	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	KACP	'BULL CREEK 161KV'	308	0.00057	-0.06815	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	KACP	'CITY OF HIGGINSVILLE 69KV'	35	0.00021	-0.06779	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	MIPU	'GREENWOOD 161KV'	169.9976	0.00012	-0.0677	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	KACP	'HAWTHORN 161KV'	769	0.00042	-0.068	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00081	-0.06839	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	KACP	'LACYGNE UNIT 345KV'	958	-0.00001	-0.06757	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	MIPU	'LAKE ROAD 161KV'	35	0.00077	-0.06835	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	MIPU	'LAKE ROAD 34KV'	92	0.00077	-0.06835	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	EMDE	'LARUSSEL 161KV'	116	-0.0011	-0.06747	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	KACP	'MARSHALL 161KV'	15	0.00019	-0.06777	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	KACP	'MONTROSE 161KV'	355.3524	0.00016	-0.06774	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	KACY	'NEARMAN 161KV'	77	0.00042	-0.068	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	KACY	'NEARMAN 20KV'	220	0.00042	-0.068	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	EMDE	'OZARK BEACH 161KV'	16	-0.00009	-0.06749	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	KACP	'PAOLA COMBUSTION TURBINES 161KV'	63.0542	0.00023	-0.06781	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	KACY	'QUINDARO 161KV'	135.1816	0.00043	-0.06801	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	KACY	'QUINDARO 69KV'	140	0.00043	-0.06801	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	MIPU	'SIBLEY 161KV'	231.5886	0.00031	-0.06789	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	MIPU	'SIBLEY 69KV'	45.99999	0.00034	-0.06792	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	MIPU	'SOUTH HARPER 161KV'	315	0.00002	-0.0676	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	KACP	'BULL CREEK 161KV'	308	0.00057	-0.0681	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	KACP	'CITY OF HIGGINSVILLE 69KV'	35	0.00021	-0.06774	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	MIPU	'GREENWOOD 161KV'	169.9976	0.00012	-0.06765	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	KACP	'HAWTHORN 161KV'	769	0.00042	-0.06795	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00081	-0.06834	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	KACP	'LACYGNE UNIT 345KV'	958	-0.00001	-0.06752	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	MIPU	'LAKE ROAD 161KV'	35	0.00077	-0.0683	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	MIPU	'LAKE ROAD 34KV'	92	0.00077	-0.0683	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	KACP	'MARSHALL 161KV'	15	0.00019	-0.06772	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	KACP	'MONTROSE 161KV'	355.3524	0.00016	-0.06769	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	KACY	'NEARMAN 161KV'	77	0.00042	-0.06795	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	KACY	'NEARMAN 20KV'	220	0.00042	-0.06795	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	KACP	'PAOLA COMBUSTION TURBINES 161KV'	63.0542	0.00023	-0.06776	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	KACY	'QUINDARO 161KV'	135.1816	0.00043	-0.06796	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	KACY	'QUINDARO 69KV'	140	0.00043	-0.06796	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	MIPU	'SIBLEY 161KV'	231.5886	0.00031	-0.06784	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	MIPU	'SIBLEY 69KV'	45.99999	0.00034	-0.06787	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	MIPU	'SOUTH HARPER 161KV'	315	0.00002	-0.06755	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	OKGE	'AES 161KV'	320	-0.00016	-0.06742	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	WERE	'CHANUTE 69KV'	55.637	-0.00024	-0.06734	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00082	-0.06676	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	WERE	'CITY OF BURLINGTON 69KV'	34.061	-0.00034	-0.06724	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	WERE	'CITY OF ERIE 69KV'	23.374	-0.00024	-0.06734	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	WERE	'CITY OF IOLA 69KV'	24.471	-0.00019	-0.06739	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	WERE	'CITY OF WINFIELD 69KV'	26.77	-0.0007	-0.06688	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	-0.00034	-0.06724	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	AEPW	'COGENTRIX 345KV'	200	-0.00024	-0.06734	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	AEPW	'COMANCHE 138KV'	160	-0.0004	-0.06718	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	AEPW	'COMANCHE 69KV'	63	-0.0004	-0.06718	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	AEPW	'EASTMAN 138KV'	355.0058	-0.00014	-0.06744	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	EMDE	'ELK RIVER 345KV'	150	-0.0005	-0.06708	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	WERE	'EMPORIA 345KV'	310	-0.00032	-0.06726	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	WERE	'EVANS ENERGY CENTER 138KV'	340	-0.00078	-0.06668	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	AEPW	'FITZGUEH 161KV'	126	-0.00014	-0.06744	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	AEPW	'FLINT CREEK 161KV'	428	-0.00018	-0.0674	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	OKGE	'FPLWND2 34KV'	23.001	-0.00044	-0.06714	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	AEPW	'FULTON 115KV'	24.99999	-0.00014	-0.06744	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	WERE	'GILL ENERGY CENTER 138KV'	155	-0.00119	-0.06639	25
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	OKGE	'HORSESHOE LAKE 138KV'	851.5	-0.00035	-0.06723	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	OKGE	'HORSESHOE LAKE 69KV'	16	-0.00034	-0.06724	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	AEPW	'KNOXLEE 138KV'	225	-0.00014	-0.06744	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	AEPW	'LEBROCK 345KV'	465.0004	-0.00014	-0.06744	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	AEPW	'LIEBERMAN 138KV'	73.99999	-0.00014	-0.06744	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	OKGE	'MCCLAIN 138KV'	478	-0.00036	-0.06722	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	OKGE	'MUSKOGEE 161KV'	166	-0.00021	-0.06737	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	OKGE	'MUSKOGEE 345KV'	1516	-0.00022	-0.06736	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	OKGE	'MUSTANG 138KV'	365.5	-0.00036	-0.06722	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	OKGE	'MUSTANG 69KV'	106	-0.00036	-0.06722	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	AEPW	'NARROWS 69KV'	22	-0.00018	-0.0674	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00023	-0.06735	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00023	-0.06735	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	AEPW	'OEC 345KV'	219.0044	-0.00023	-0.06735	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	OKGE	'ONE OAK 345KV'	300	-0.00037	-0.06721	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	AEPW	'PIRKEY GENERATION 138KV'	490	-0.00014	-0.06744	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	OKGE	'REDBUD 345KV'	250.0063	-0.00034	-0.06724	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	AEPW	'RIVERSIDE STATION 138KV'	640	-0.00024	-0.06734	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	EMDE	'RIVERTON 161KV'	88.89612	-0.00014	-0.06744	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	EMDE	'RIVERTON 69KV'	42.51023	-0.00014	-0.06744	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	OKGE	'SEMINOLE 138KV'	482.8771	-0.00034	-0.06724	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	OKGE	'SEMINOLE 345KV'	996	-0.00034	-0.06724	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	OKGE	'SMITH COGEN 138KV'	120	-0.00036	-0.06722	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	OKGE	'SOONER 138KV'	505	-0.00041	-0.06717	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	OKGE	'SOONER 345KV'	513	-0.00041	-0.06717	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	AEPW	'SOUTHWESTERN STATION 138KV'	257	-0.0004	-0.06718	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	EMDE	'STATE LINE 161KV'	503	-0.00014	-0.06744	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	OKGE	'TINKER 5G 138KV'	31.99805	-0.00035	-0.06723	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	AEPW	'TULSA POWER STATION 138KV'	186	-0.00024	-0.06734	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	WERE	'WACO 138KV'	17.967	-0.00115	-0.06643	25
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	AEPW	'WELEETKA 138KV'	84	-0.00027	-0.06731	24

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

WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	AEPW	'WELSH 345KV'	1044	-0.00016	-0.06742	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	AEPW	'WILKES 138KV'	349.5782	-0.00015	-0.06743	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	AEPW	'WILKES 345KV'	311	-0.00015	-0.06743	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	OKGE	'AES 161KV'	320	-0.00016	-0.06737	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	EMDE	'ASBURY 161KV'	191	-0.00013	-0.0674	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	WERE	'CHANUTE 69KV'	55.637	-0.00024	-0.06729	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00082	-0.06671	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	WERE	'CITY OF BURLINGTON 69KV'	34.061	-0.00034	-0.06719	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	WERE	'CITY OF ERIE 69KV'	23.374	-0.00024	-0.06729	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	WERE	'CITY OF IOLA 69KV'	24.471	-0.00019	-0.06734	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	WERE	'CITY OF WINFIELD 69KV'	26.77	-0.0007	-0.06683	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	-0.00034	-0.06719	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	AEPW	'COGENTRIX 345KV'	200	-0.00024	-0.06729	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	AEPW	'COMANCHE 138KV'	160	-0.0004	-0.06713	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	AEPW	'COMANCHE 69KV'	63	-0.0004	-0.06713	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	AEPW	'EASTMAN 138KV'	355.0058	-0.00014	-0.06739	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	EMDE	'ELK RIVER 345KV'	150	-0.0005	-0.06703	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	WERE	'EMPORIA 345KV'	310	-0.00032	-0.06721	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	WERE	'EVANS ENERGY CENTER 138KV'	340	-0.00078	-0.06675	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	AEPW	'FITZHUGH 161KV'	126	-0.00014	-0.06739	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	AEPW	'FLINT CREEK 161KV'	428	-0.00018	-0.06735	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	OKGE	'FPLWWD2 34KV'	23.001	-0.00044	-0.06709	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	AEPW	'FULTON 115KV'	24.99999	-0.00014	-0.06739	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	WERE	'GILL ENERGY CENTER 138KV'	155	-0.00119	-0.06634	25
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	OKGE	'HORSESHOE LAKE 138KV'	851.5	-0.00035	-0.06718	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	OKGE	'HORSESHOE LAKE 69KV'	16	-0.00034	-0.06719	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	AEPW	'KNOXLEE 138KV'	225	-0.00014	-0.06739	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	EMDE	'LARUSSEL 161KV'	116	-0.00011	-0.06742	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	AEPW	'LEBROCK 345KV'	465.0004	-0.00014	-0.06739	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	AEPW	'LIEBERMAN 138KV'	73.99999	-0.00014	-0.06739	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	OKGE	'MCCLAIN 138KV'	478	-0.00036	-0.06717	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	OKGE	'MUSKOGEE 161KV'	166	-0.00021	-0.06732	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	OKGE	'MUSKOGEE 345KV'	1516	-0.00022	-0.06731	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	OKGE	'MUSTANG 138KV'	365.5	-0.00036	-0.06717	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	OKGE	'MUSTANG 69KV'	106	-0.00036	-0.06717	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	AEPW	'NARROWS 69KV'	22	-0.00018	-0.06735	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00023	-0.0673	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00023	-0.0673	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	AEPW	'OEC 345KV'	219.0044	-0.00023	-0.0673	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	OKGE	'ONE OAK 345KV'	300	-0.00037	-0.06716	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	EMDE	'OZARK BEACH 161KV'	16	-0.00009	-0.06744	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	AEPW	'PIRKEY GENERATION 138KV'	490	-0.00014	-0.06739	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	OKGE	'REDBUD 345KV'	250.0063	-0.00034	-0.06719	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	AEPW	'RIVERSIDE STATION 138KV'	640	-0.00024	-0.06729	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	EMDE	'RIVERTON 161KV'	88.89612	-0.00014	-0.06739	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	EMDE	'RIVERTON 69KV'	42.51023	-0.00014	-0.06739	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	OKGE	'SEMINOLE 138KV'	482.8771	-0.00034	-0.06719	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	OKGE	'SEMINOLE 345KV'	996	-0.00034	-0.06719	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	OKGE	'SMITH COGEN 138KV'	120	-0.00036	-0.06717	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	OKGE	'SOONER 138KV'	505	-0.00041	-0.06712	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	OKGE	'SOONER 345KV'	513	-0.00041	-0.06712	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	AEPW	'SOUTHWESTERN STATION 138KV'	257	-0.0004	-0.06713	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	EMDE	'STATE LINE 161KV'	503	-0.00014	-0.06739	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	OKGE	'TINKER SG 138KV'	31.99805	-0.00035	-0.06718	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	AEPW	'TULSA POWER STATION 138KV'	186	-0.00024	-0.06729	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	WERE	'WACO 138KV'	17.967	-0.00115	-0.06638	25
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	AEPW	'WEELETKA 138KV'	84	-0.00027	-0.06726	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	AEPW	'WELSH 345KV'	1044	-0.00016	-0.06737	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	AEPW	'WILKES 138KV'	349.5782	-0.00015	-0.06738	24
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	AEPW	'WILKES 345KV'	311	-0.00015	-0.06738	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	WERE	'LAWRENCE ENERGY CENTER 230KV'	233.4716	-0.00245	-0.06513	25
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	WERE	'LAWRENCE ENERGY CENTER 230KV'	233.4716	-0.00245	-0.06508	25
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	-0.00386	-0.06372	26
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	WEPL	'JUDSON LARGE 115KV'	105.5424	-0.00388	-0.0637	26
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	-0.00386	-0.06367	26
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	WEPL	'JUDSON LARGE 115KV'	105.5424	-0.00388	-0.06365	26
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	-0.00515	-0.06243	26
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	-0.00515	-0.06238	26
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	WEPL	'A. M. MULLERGEREN GENERATOR 115KV'	63	-0.006	-0.06158	26
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	WEPL	'A. M. MULLERGEREN GENERATOR 115KV'	63	-0.006	-0.06153	27
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	0.0228	WERE	'SMOKEY HILLS 34KV'	152	0.08171	-0.05891	28
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.06758	WEPL	'CLIFTON 115KV'	58.49084	-0.01161	-0.05597	29
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.06753	WEPL	'CLIFTON 115KV'	58.49084	-0.01161	-0.05592	29
WERE	'BPU - CITY OF MCPHERSON 115KV'	89.05566	-0.12249	WERE	'HUTCHINSON ENERGY CENTER 115KV'	205	-0.06758	-0.05491	30

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: RENO - SUMMIT 345KV & WICHITA - RENO 345KV
 Limiting Facility: NORTHVIEW - SUMMIT 115KV CKT 1
 Direction: To->From
 Line Outage: EXIDE JUNCTION - SUMMIT 115KV CKT 1
 Flowgate: 57371573811573685738112211SP
 Date Redispatch Needed: Starting 2009 6/1 - 10/1 Until EOC
 Season Flowgate Identified: 2011 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount
1140120	2.8	5.8
1161506	2.9	5.8

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.32797	18
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.26936	22
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01474	-0.24527	24
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WEPL	'A. M. MULLERGEREN GENERATOR 115KV'	63	0.01228	-0.24281	24
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	0.00797	-0.2385	25
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WEPL	'JUDSON LARGE 115KV'	111.547	0.00796	-0.23849	25
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	MIPU	'ARIES 161KV'	176.2461	0.00122	-0.23175	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	KACP	'BULL CREEK 161KV'	192.0293	0.00166	-0.23219	25

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

WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	KACP	'CITY OF HIGGINSVILLE 69KV'	34	0.00122	-0.23175	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'EMPORIA 345KV'	610	0.00182	-0.23235	25
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	MIPU	'GREENWOOD 161KV'	189.4481	0.00125	-0.23178	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	KACP	'HAWTHORN 161KV'	769	0.00183	-0.23236	25
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	KACP	'IATAN 345KV'	396	0.00383	-0.23436	25
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	KACP	'IATAN 345KV'	1819	0.00383	-0.23436	25
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00611	-0.23664	25
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	MIPU	'LAKE ROAD 161KV'	35	0.00267	-0.2332	25
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	MIPU	'LAKE ROAD 34KV'	92	0.00267	-0.2332	25
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	KACP	'MARSHALL 161KV'	15	0.00103	-0.23156	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	KACP	'MONTROSE 161KV'	363.8085	0.00111	-0.23164	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	KACY	'NEARMAN 161KV'	77	0.00193	-0.23246	25
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	KACY	'NEARMAN 20KV'	220	0.00193	-0.23246	25
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	KACY	'QUINDARO 161KV'	140.2385	0.00193	-0.23246	25
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	KACY	'QUINDARO 69KV'	140	0.00193	-0.23246	25
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	MIPU	'SIBLEY 161KV'	229.0538	0.00159	-0.23212	25
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	MIPU	'SIBLEY 69KV'	45.99999	0.00165	-0.23218	25
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	MIPU	'SOUTH HARPER 161KV'	315	0.00112	-0.23165	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'AES 161KV'	320	-0.00113	-0.2294	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	EMDE	'ASBURY 161KV'	191	-0.00119	-0.22934	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'CHANUTE 69KV'	58.843	-0.00197	-0.22856	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'CITY OF BURLINGTON 69KV'	39.766	-0.00348	-0.22705	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'CITY OF ERIE 69KV'	23.579	-0.00197	-0.22856	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'CITY OF IOLA 69KV'	27.273	-0.00167	-0.22886	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WEPL	'CLIFTON 115KV'	65	-0.00416	-0.22637	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	-0.00348	-0.22705	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'COGENTRIX 345KV'	200	-0.00179	-0.22874	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'COMANCHE 138KV'	160	-0.00176	-0.22877	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'COMANCHE 69KV'	63	-0.00176	-0.22877	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'EASTMAN 138KV'	355.0089	-0.00094	-0.22959	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	EMDE	'ELK RIVER 345KV'	150	-0.00475	-0.22578	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'FITZHUGH 161KV'	113.98	-0.00104	-0.22949	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'FLINT CREEK 161KV'	428	-0.00139	-0.22914	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'HORSESHOE LAKE 138KV'	851.5	-0.00238	-0.22815	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'HORSESHOE LAKE 69KV'	16	-0.00233	-0.2282	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'JL STALL 138KV'	455	-0.00087	-0.22966	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'KNOXLEE 138KV'	160.7747	-0.00093	-0.2296	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	EMDE	'LARUSSEL 161KV'	46.61621	-0.00097	-0.22956	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'LAWRENCE ENERGY CENTER 230KV'	222.873	0.00063	-0.23116	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'LEBROCK 345KV'	365.0053	-0.00094	-0.22959	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'LIEBERMAN 138KV'	73.99999	-0.00088	-0.22965	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'MCCLAIN 138KV'	478	-0.0024	-0.22813	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'MUSKOGEE 161KV'	166	-0.00154	-0.22899	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'MUSKOGEE 345KV'	1516	-0.00162	-0.22891	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'MUSTANG 138KV'	365.5	-0.00245	-0.22808	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'MUSTANG 69KV'	106	-0.00245	-0.22808	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'NARROWS 69KV'	22	-0.00115	-0.22938	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00176	-0.22877	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00177	-0.22876	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'OEC 345KV'	269.0035	-0.00173	-0.2288	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'ONE OAK 345KV'	300	-0.0027	-0.22783	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	EMDE	'OZARK BEACH 161KV'	16	-0.00077	-0.22976	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'PIRKEY GENERATION 138KV'	480	-0.00094	-0.22959	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'REDBUD 345KV'	438.4026	-0.0024	-0.22813	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'RIVERSIDE STATION 138KV'	482	-0.00179	-0.22874	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	EMDE	'RIVERTON 161KV'	38	-0.00124	-0.22929	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	EMDE	'RIVERTON 69KV'	40.33317	-0.00121	-0.22932	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'SEMINOLE 138KV'	477.0613	-0.00219	-0.22834	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'SEMINOLE 345KV'	996	-0.00224	-0.22829	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'SMITH COGEN 138KV'	120	-0.00244	-0.22809	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'SOONER 138KV'	505	-0.00328	-0.22725	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'SOONER 345KV'	513	-0.00335	-0.22718	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'SOUTH 4TH ST 69KV'	42.7	-0.00331	-0.22722	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'SOUTHWESTERN STATION 138KV'	172	-0.0018	-0.22873	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	EMDE	'STATE LINE 161KV'	503	-0.0012	-0.22933	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	-0.00167	-0.22886	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'TINKER 5G 138KV'	62	-0.00236	-0.22817	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'TULSA POWER STATION 138KV'	77	-0.00178	-0.22875	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'TURK 138KV'	443	-0.00103	-0.2295	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'WEELETKA 138KV'	128	-0.00181	-0.22872	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'WELSH 345KV'	1044	-0.00103	-0.2295	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'WILKES 138KV'	193.923	-0.00097	-0.22956	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'WILKES 345KV'	253	-0.00095	-0.22958	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00587	-0.22466	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'CITY OF WINFIELD 69KV'	37.87	-0.0052	-0.22533	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'EVANS ENERGY CENTER 138KV'	340	-0.00752	-0.22301	27
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'GILL ENERGY CENTER 138KV'	155	-0.00653	-0.224	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'WACO 138KV'	17.972	-0.00663	-0.2239	26
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'HUTCHINSON ENERGY CENTER 115KV'	205	-0.00317	-0.20036	29
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.19357	30
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.13496	43
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'BPU - CITY OF MCPHERSON 115KV'	115.5408	-0.09613	-0.1344	44
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.12761	46
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.03011	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.12755	46
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01474	-0.11087	53
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WEPL	'A. M. MULLERGEN GENERATOR 115KV'	63	0.01228	-0.10841	54
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	0.00797	-0.1041	56
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WEPL	'JUDSON LARGE 115KV'	111.547	0.00796	-0.10409	56
WERE	'EVANS ENERGY CENTER 138KV'	467	-0.00752	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.10496	56
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.00653	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.10397	56
WERE	'GILL ENERGY CENTER 69KV'	118	-0.00653	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.10397	56
WERE	'GETTY 69KV'	35	-0.0057	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.10314	57
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00611	-0.10224	57
OKGE	'CONTINENTAL EMPIRE 138KV'	32	-0.00328	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.10072	58
OKGE	'ONE OAK 345KV'	36	-0.0027	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.10014	58
OKGE	'RED ROCK 345KV'	1050	-0.00335	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.10079	58
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	KACP	'IATAN 345KV'	396	0.00383	-0.09996	59
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	KACP	'IATAN 345KV'	1819	0.00383	-0.09996	59
WERE	'CHANUTE 69KV'	28.957	-0.00197	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09941	59
AEPW	'COGENTRIX 345KV'	694	-0.00179	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09923	59
AEPW	'KIOWA 345KV'	1347.994	-0.00185	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09929	59
AEPW	'MATTISON 161KV'	510	-0.00141	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09885	59
OKGE	'MCCLAIN 138KV'	42	-0.0024	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09984	59

Table 6 - Potential Redispach Relief Pairs to Prevent Deferral of Service

AEPW	'MID-CONTINENT 138KV'	142.0984	-0.00158	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09902	59
OKGE	'MUSKOGEE 161KV'	31	-0.00154	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09898	59
AEPW	'OEC 345KV'	1878.026	-0.00173	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09917	59
OKGE	'REDBUD 345KV'	761.5974	-0.0024	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09984	59
AEPW	'RIVER SIDE 138KV'	172	-0.00179	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09923	59
AEPW	'RIVERSIDE STATION 138KV'	240	-0.00179	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09923	59
AEPW	'SOUTHWESTERN STATION 138KV'	587	-0.0018	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09924	59
WERE	'TECUMSEH ENERGY CENTER 115KV'	52.99999	-0.00167	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09911	59
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.00211	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09955	59
AEPW	'TULSA POWER STATION 138KV'	217	-0.00178	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09922	59
AEPW	'TULSA POWER STATION 69KV'	80	-0.00178	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09922	59
AEPW	'ARSENAL HILL 69KV'	99	-0.00087	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09831	59
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	KACP	'BULL CREEK 161KV'	192.0293	0.00166	-0.09779	60
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WERE	'EMPORIA 345KV'	610	0.00182	-0.09795	60
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	KACP	'HAWTHORN 161KV'	769	0.00183	-0.09796	60
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	MIPU	'LAKE ROAD 161KV'	35	0.00267	-0.0988	59
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	MIPU	'LAKE ROAD 34KV'	92	0.00267	-0.0988	59
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	KACY	'NEARMAN 161KV'	77	0.00193	-0.09806	60
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	KACY	'NEARMAN 20KV'	220	0.00193	-0.09806	60
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	KACY	'QUINDARO 161KV'	140.2385	0.00193	-0.09806	60
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	KACY	'QUINDARO 69KV'	140	0.00193	-0.09806	60
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	MIPU	'SIBLEY 161KV'	229.0558	0.00159	-0.09772	60
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	MIPU	'SIBLEY 69KV'	45.99999	0.00165	-0.09778	60
AEPW	'EASTMAN 138KV'	130.0011	-0.00094	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09838	59
AEPW	'FULTON 115KV'	32.99999	-0.00091	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09835	59
AEPW	'KNOXLEE 138KV'	262.2253	-0.00093	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09837	59
EMDE	'LARUSSEL 161KV'	249.3838	-0.00097	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09841	59
AEPW	'LEBROCK 345KV'	331.9947	-0.00094	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09838	59
AEPW	'LIEBERMAN 138KV'	154	-0.00088	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09832	59
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.00097	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09841	59
AEPW	'PIRKEY GENERATION 138KV'	35	-0.00094	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09838	59
EMDE	'RIVERTON 161KV'	284	-0.00124	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09868	59
EMDE	'STATE LINE 161KV'	103	-0.0012	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09864	59
AEPW	'TURK 138KV'	35	-0.00103	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09847	59
AEPW	'WILKES 138KV'	269.077	-0.00097	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09841	59
AEPW	'WILKES 345KV'	58	-0.00095	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09839	59
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	MIPU	'ARIES 161KV'	176.2461	0.00122	-0.09735	60
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	KACP	'CITY OF HIGGINSVILLE 69KV'	34	0.00122	-0.09735	60
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	MIPU	'GREENWOOD 161KV'	189.4481	0.00125	-0.09738	60
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WERE	'LAWRENCE ENERGY CENTER 230KV'	222.873	0.00063	-0.09676	60
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	KACP	'MONTROSE 161KV'	363.8085	0.00111	-0.09724	60
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	MIPU	'SOUTH HARPER 161KV'	315	0.00112	-0.09725	60
WERE	'LAWRENCE ENERGY CENTER 230KV'	46.12704	0.00063	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09681	60
KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	0.00083	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09661	61
MIPU	'ARIES 161KV'	418.7539	0.00122	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09622	61
KACP	'BULL CREEK 161KV'	180.9707	0.00166	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09578	61
WERE	'EMPORIA 345KV'	218	0.00182	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09562	61
MIPU	'GREENWOOD 161KV'	58.35188	0.00125	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09619	61
KACY	'KAW 69KV'	192	0.00192	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09552	61
KACP	'MARSHALL 161KV'	39.1	0.00103	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09641	61
KACP	'NORTHEAST 13KV'	229	0.00189	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09555	61
KACP	'NORTHEAST 161KV'	229	0.00189	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09555	61
KACY	'QUINDARO 161KV'	44.76152	0.00193	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09551	61
KACY	'QUINDARO 69KV'	32	0.00193	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09551	61
MIPU	'RALPH GREEN 69KV'	73.7	0.00118	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09626	61
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'AES 161KV'	320	-0.00113	-0.095	62
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	EMDE	'ASBURY 161KV'	191	-0.00119	-0.09494	62
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'EASTMAN 138KV'	355.0089	-0.00094	-0.09519	61
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'FITZHUGH 161KV'	113.98	-0.00104	-0.09509	61
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'FLINT CREEK 161KV'	428	-0.00139	-0.09474	62
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'JL STALL 138KV'	455	-0.00087	-0.09526	61
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'KNOXLEE 138KV'	160.7747	-0.00093	-0.0952	61
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	EMDE	'LARUSSEL 161KV'	46.61621	-0.00097	-0.09516	61
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'LEBROCK 345KV'	365.0053	-0.00094	-0.09519	61
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'LIEBERMAN 138KV'	73.99999	-0.00088	-0.09525	61
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'MUSKOGEE 161KV'	166	-0.00154	-0.09459	62
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'MUSKOGEE 345KV'	1516	-0.00162	-0.09451	62
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'PIRKEY GENERATION 138KV'	480	-0.00094	-0.09519	61
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	EMDE	'RIVERTON 161KV'	38	-0.00124	-0.09489	62
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	EMDE	'RIVERTON 69KV'	40.33317	-0.00121	-0.09492	62
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	EMDE	'STATE LINE 161KV'	503	-0.0012	-0.09493	62
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	-0.00167	-0.09446	62
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'TURK 138KV'	443	-0.00103	-0.0951	61
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'WELSH 345KV'	1044	-0.00103	-0.0951	61
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'WILKES 138KV'	193.923	-0.00097	-0.09516	61
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'WILKES 345KV'	253	-0.00095	-0.09518	61
MIPU	'LAKE ROAD 161KV'	91	0.00267	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09477	62
MIPU	'TWA 161KV'	32.1	0.00216	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09528	61
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WERE	'CHANUTE 69KV'	58.843	-0.00197	-0.09416	62
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'COGENTRIX 345KV'	200	-0.00179	-0.09434	62
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'COMANCHE 138KV'	160	-0.00176	-0.09437	62
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'COMANCHE 69KV'	63	-0.00176	-0.09437	62
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'HORSESHOE LAKE 138KV'	851.5	-0.00238	-0.09375	62
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'MCCLAIN 138KV'	478	-0.0024	-0.09373	62
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'MUSTANG 138KV'	365.5	-0.00245	-0.09368	62
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'MUSTANG 69KV'	106	-0.00245	-0.09368	62
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00176	-0.09437	62
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00177	-0.09436	62
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'OEC 345KV'	269.0035	-0.00173	-0.0944	62
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'ONE OAK 345KV'	300	-0.0027	-0.09343	63
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'REDBUD 345KV'	438.4026	-0.0024	-0.09373	62
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'RIVERSIDE STATION 138KV'	482	-0.00179	-0.09434	62
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'SEMINOLE 138KV'	477.0613	-0.00219	-0.09394	62
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'SEMINOLE 345KV'	996	-0.00224	-0.09389	62
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'SMITH COGEN 138KV'	120	-0.00244	-0.09369	62
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'SOUTHWESTERN STATION 138KV'	172	-0.0018	-0.09433	62
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'TINKER 5G 138KV'	62	-0.00236	-0.09377	62
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'TULSA POWER STATION 138KV'	77	-0.00178	-0.09435	62
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'WEELETKA 138KV'	128	-0.00181	-0.09432	62
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WERE	'CITY OF BURLINGTON 69KV'	39.766	-0.00348	-0.09265	63
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'SOONER 138KV'	505	-0.00328	-0.09285	63
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'SOONER 345KV'	513	-0.00335	-0.09278	63
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'SOUTH 4TH ST 69KV'	42.7	-0.00331	-0.09282	63

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

WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WEPL	'CLIFTON 115KV'	65	-0.00416	-0.09197	64
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	EMDE	'ELK RIVER 345KV'	150	-0.00475	-0.09138	64
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WERE	'CITY OF WINFIELD 69KV'	37.87	-0.0052	-0.09093	64
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WERE	'GILL ENERGY CENTER 138KV'	155	-0.00653	-0.0896	65
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WERE	'EVANS ENERGY CENTER 138KV'	340	-0.00752	-0.08861	66
WEPL	'CIMARRON RIVER 115KV'	43.70087	0.00801	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.08943	65
MIDW	'lyons 115kv'	999	0.01111	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.08633	68
MIDW	'pawnee 115kv'	999	0.01111	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.08633	68
MIDW	'rice 115kv'	999	0.01111	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.08633	68
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.01474	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.0827	71
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.069	85
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.03011	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.06894	85
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WERE	'HUTCHINSON ENERGY CENTER 115KV'	205	-0.03017	-0.06596	88
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	0.03883	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.05861	99
WERE	'EVANS ENERGY CENTER 138KV'	467	-0.00752	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04635	126
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.00653	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04536	128
WERE	'GILL ENERGY CENTER 69KV'	118	-0.00653	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04536	128
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01474	-0.04491	130
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.03011	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01474	-0.04485	130
OKGE	'RED ROCK 345KV'	1050	-0.00335	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04218	138
OKGE	'REDBUD 345KV'	761.5974	-0.0024	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04123	141
AEPW	'COGENTRIX 345KV'	694	-0.00179	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04062	143
AEPW	'KIOWA 345KV'	1347.994	-0.00185	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04068	143
AEPW	'OEC 345KV'	1878.026	-0.00173	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04056	143
AEPW	'RIVER SIDE 138KV'	172	-0.00179	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04062	143
AEPW	'RIVERSIDE STATION 138KV'	240	-0.00179	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04062	143
AEPW	'SOUTHWESTERN STATION 138KV'	587	-0.0018	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04063	143
AEPW	'TULSA POWER STATION 138KV'	217	-0.00178	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04061	143
AEPW	'TULSA POWER STATION 69KV'	80	-0.00178	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04061	143
AEPW	'MID-CONTINENT 138KV'	142.0984	-0.00158	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04041	144
AEPW	'MATTISON 161KV'	510	-0.00141	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04024	145
EMDE	'RIVERTON 161KV'	284	-0.00124	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04007	145
EMDE	'STATE LINE 161KV'	103	-0.0012	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04003	145
EMDE	'LARUSSEL 161KV'	249.3838	-0.00097	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.0398	146
AEPW	'WILKES 138KV'	269.077	-0.00097	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.0398	146
AEPW	'ARSENAL HILL 69KV'	99	-0.00087	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.0397	147
AEPW	'EASTMAN 138KV'	130.0011	-0.00094	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03977	146
AEPW	'KNOXLEE 138KV'	262.2253	-0.00093	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03976	146
AEPW	'LEBROCK 345KV'	331.9947	-0.00094	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03977	146
AEPW	'LIEBERMAN 138KV'	154	-0.00088	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03971	147
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	WEPL	'JUDSON LARGE 115KV'	111.547	0.00796	-0.03813	153
KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	0.00083	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.038	153
MIPU	'ARIES 161KV'	418.7539	0.00122	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03761	155
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00611	-0.03628	160
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	KACP	'IATAN 345KV'	396	0.00383	-0.034	171
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	KACP	'IATAN 345KV'	1819	0.00383	-0.034	171
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	MIPU	'LAKE ROAD 34KV'	92	0.00267	-0.03284	177
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	KACY	'NEARMAN 20KV'	220	0.00193	-0.0321	181
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	KACY	'QUINDARO 161KV'	140.2385	0.00193	-0.0321	181
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	KACY	'QUINDARO 69KV'	140	0.00193	-0.0321	181
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	WERE	'EMPORIA 345KV'	610	0.00182	-0.03199	182
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	KACP	'HAWTHORN 161KV'	769	0.00183	-0.032	182
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	KACP	'BULL CREEK 161KV'	192.0293	0.00166	-0.03183	183
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	MIPU	'SIBLEY 161KV'	229.0558	0.00159	-0.03176	183
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	MIPU	'ARIES 161KV'	176.2461	0.00122	-0.03139	185
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	MIPU	'GREENWOOD 161KV'	189.4481	0.00125	-0.03142	185
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	KACP	'MONTROSE 161KV'	363.8085	0.00111	-0.03128	186
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	MIPU	'SOUTH HARPER 161KV'	315	0.00112	-0.03129	186
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	WERE	'LAWRENCE ENERGY CENTER 230KV'	222.873	0.00063	-0.0308	189

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

Upgrade: RENO - SUMMIT 345KV & WICHITA - RENO 345KV
 Limiting Facility: NORTHVIEW - SUMMIT 115KV CKT 1
 Direction: To->From
 Line Outage: SPP-WERE-73
 Flowgate: 57371573811SPP-WERE-732211SP
 Date Redispatch Needed: Starting 2009 6/1 - 10/1 Until EOC
 Season Flowgate Identified: 2011 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount
1140120	0.2	0.4
1161506	0.2	0.4

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	WEPL	'A. M. MULLERGRENNER GENERATOR 115KV'	63	0.01228	-0.36462	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	OKGE	'AES 161KV'	320	-0.00113	-0.35121	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	MIPU	'ARIES 161KV'	176.2461	0.00122	-0.35356	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	EMDE	'ASBURY 161KV'	191	-0.00119	-0.35115	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	KACP	'BULL CREEK 161KV'	192.0293	0.00166	-0.354	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	WERE	'CHANUTE 69KV'	58.843	-0.00197	-0.35037	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	WEPL	'CIMARRON RIVER 115KV'	3.299129	0.00801	-0.36035	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00587	-0.34647	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	WERE	'CITY OF BURLINGTON 69KV'	39.766	-0.00348	-0.34886	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	WERE	'CITY OF ERIE 69KV'	23.579	-0.00197	-0.35037	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	WERE	'CITY OF FREDONIA 69KV'	3.897	-0.00235	-0.34999	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	WERE	'CITY OF GIRARD 69KV'	5.092	-0.00148	-0.35086	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	KACP	'CITY OF HIGGINSVILLE 69KV'	34	0.00122	-0.35356	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	WERE	'CITY OF IOLA 69KV'	27.273	-0.00167	-0.35067	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	WERE	'CITY OF MULVANE 69KV'	9.291	-0.00632	-0.34602	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	WERE	'CITY OF NEODESHA 69KV'	4.5	-0.00227	-0.35007	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	WERE	'CITY OF WINFIELD 69KV'	37.87	-0.0052	-0.34714	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	WEPL	'CLIFTON 115KV'	65	-0.00416	-0.34818	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	-0.00348	-0.34886	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	AEPW	'COGENTRIX 345KV'	200	-0.00179	-0.35055	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	MIDW	'COLBY 115KV'	6.37307	0.01231	-0.36465	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	AEPW	'COMANCHE 138KV'	160	-0.00176	-0.35058	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	AEPW	'COMANCHE 69KV'	63	-0.00176	-0.35058	2

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

WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	AEPW	'EASTMAN 138KV'	355.0089	-0.00094	-0.3514	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	EMDE	'ELK RIVER 345KV'	150	-0.00475	-0.34759	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	WERE	'EMPORIA 345KV'	610	0.00182	-0.35416	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	WERE	'EVANS ENERGY CENTER 138KV'	340	-0.00752	-0.34482	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	AEPW	'FITZHUGH 161KV'	113.98	-0.00104	-0.3513	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	AEPW	'FLINT CREEK 161KV'	428	-0.00139	-0.35095	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	OKGE	'FPLWND2 34KV'	7.9968	-0.00243	-0.34991	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	WERE	'GILL ENERGY CENTER 138KV'	155	-0.00653	-0.34581	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.39117	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	0.00797	-0.36031	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	MIPU	'GREENWOOD 161KV'	189.4481	0.00125	-0.35359	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	KACP	'HAWTHORN 161KV'	769	0.00183	-0.35417	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	OKGE	'HORSESHOE LAKE 138KV'	851.5	-0.00238	-0.34996	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	OKGE	'HORSESHOE LAKE 69KV'	16	-0.00233	-0.35001	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	WERE	'HUTCHINSON ENERGY CENTER 115KV'	205	-0.03017	-0.32217	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	KACP	'IATAN 345KV'	396	0.00383	-0.35617	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	KACP	'IATAN 345KV'	1819	0.00383	-0.35617	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00611	-0.35845	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01474	-0.36708	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	AEPW	'JL STALL 138KV'	455	-0.00087	-0.35147	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	WEPL	'JUDSON LARGE 115KV'	111.547	0.00796	-0.3603	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	AEPW	'KNOXLEE 138KV'	160.7747	-0.00093	-0.35141	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	AEPW	'L&D13 69KV'	11	-0.00115	-0.35119	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	MIPU	'LAKE ROAD 161KV'	35	0.00267	-0.35501	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	MIPU	'LAKE ROAD 34KV'	92	0.00267	-0.35501	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	EMDE	'LARUSSEL 161KV'	46.61621	-0.00097	-0.35137	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	WERE	'LAWRENCE ENERGY CENTER 230KV'	222.873	0.00663	-0.35297	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	AEPW	'LEBROCK 345KV'	365.0053	-0.00094	-0.3514	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	AEPW	'LIEBERMAN 138KV'	73.99999	-0.00088	-0.35146	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	KACP	'MARSHALL 161KV'	15	0.01003	-0.35337	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	OKGE	'MCCLAIN 138KV'	478	-0.0024	-0.34994	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	KACP	'MONTROSE 161KV'	363.8085	0.00111	-0.35345	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	OKGE	'MUSKOGEE 161KV'	166	-0.00154	-0.3508	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	OKGE	'MUSKOGEE 345KV'	1516	-0.00162	-0.35072	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	OKGE	'MUSTANG 138KV'	365.5	-0.00245	-0.34989	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	OKGE	'MUSTANG 69KV'	106	-0.00245	-0.34989	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	AEPW	'NARROWS 69KV'	22	-0.00115	-0.35119	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	KACY	'NEARMAN 161KV'	77	0.00193	-0.35427	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	KACY	'NEARMAN 20KV'	220	0.00193	-0.35427	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00176	-0.35058	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00177	-0.35057	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	AEPW	'OEG 345KV'	269.0035	-0.00173	-0.35061	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	OKGE	'ONE OAK 345KV'	300	-0.0027	-0.34964	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	EMDE	'OZARK BEACH 161KV'	16	-0.00077	-0.35157	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	AEPW	'PIRKEY GENERATION 138KV'	480	-0.00094	-0.3514	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	KACY	'QUINDARO 161KV'	140.2385	0.00193	-0.35427	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	KACY	'QUINDARO 69KV'	140	0.00193	-0.35427	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	OKGE	'REDBUD 345KV'	438.4026	-0.0024	-0.34994	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	AEPW	'RIVERSIDE STATION 138KV'	482	-0.00179	-0.35055	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	EMDE	'RIVERTON 161KV'	38	-0.00124	-0.3511	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	EMDE	'RIVERTON 69KV'	40.33317	-0.00121	-0.35113	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	OKGE	'SEMINOLE 138KV'	477.0613	-0.00219	-0.35015	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	OKGE	'SEMINOLE 345KV'	996	-0.00224	-0.3501	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	MIPU	'SIBLEY 161KV'	228.0558	0.00159	-0.35393	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	MIPU	'SIBLEY 69KV'	45.99999	0.00165	-0.35399	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	OKGE	'SMITH COGEN 138KV'	120	-0.00244	-0.3499	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.44978	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	OKGE	'SOONER 138KV'	505	-0.00328	-0.34906	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	OKGE	'SOONER 345KV'	513	-0.00335	-0.34899	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	OKGE	'SOUTH 4TH ST 69KV'	42.7	-0.00331	-0.34903	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	MIPU	'SOUTH HARPER 161KV'	315	0.00112	-0.35346	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	AEPW	'SOUTHWESTERN STATION 138KV'	172	-0.0018	-0.35054	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	EMDE	'STATE LINE 161KV'	503	-0.0012	-0.35114	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	WERE	'TUCUMSEH ENERGY CENTER 115KV'	108	-0.00167	-0.35067	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	OKGE	'TINKER 5G 138KV'	62	-0.00236	-0.34998	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	AEPW	'TULSA POWER STATION 138KV'	77	-0.00178	-0.35056	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	AEPW	'TURK 138KV'	443	-0.00103	-0.35131	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	WERE	'WACO 138KV'	17.972	-0.00663	-0.34571	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	AEPW	'WEELETKA 138KV'	128	-0.00181	-0.35053	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	AEPW	'WELSH 345KV'	1044	-0.00103	-0.35131	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	AEPW	'WILKES 138KV'	193.923	-0.00097	-0.35137	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	AEPW	'WILKES 345KV'	253	-0.00095	-0.35139	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	OKGE	'WOODWARD 24KV'	9.3	-0.00242	-0.34992	2
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.32797	2
WERE	'ABILENE ENERGY CENTER 115KV'	5.999996	-0.35234	WERE	'BPU - CITY OF MCPHERSON 115KV'	115.5408	-0.09613	-0.25621	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WEPL	'A. M. MULLERGRENNER GENERATOR 115KV'	63	0.01228	-0.24281	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'AES 161KV'	320	-0.00113	-0.2294	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	MIPU	'ARIES 161KV'	176.2461	0.00122	-0.23175	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	EMDE	'ASBURY 161KV'	191	-0.00119	-0.22934	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	KACP	'BULL CREEK 161KV'	192.0293	0.00166	-0.23219	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'CHANUTE 69KV'	58.843	-0.00197	-0.22856	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WEPL	'CIMARRON RIVER 115KV'	3.299129	0.00801	-0.23854	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00587	-0.22466	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'CITY OF BURLINGTON 69KV'	39.766	-0.00348	-0.22705	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'CITY OF ERIE 69KV'	23.579	-0.00197	-0.22856	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'CITY OF FREDONIA 69KV'	3.897	-0.00235	-0.22818	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'CITY OF GIRARD 69KV'	5.092	-0.00148	-0.22905	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	KACP	'CITY OF HIGGINSVILLE 69KV'	34	0.00122	-0.23175	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'CITY OF IOLA 69KV'	27.273	-0.00167	-0.22886	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'CITY OF MULVANE 69KV'	9.291	-0.00632	-0.22421	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'CITY OF NEODESHA 69KV'	4.5	-0.00227	-0.22826	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'CITY OF WINFIELD 69KV'	37.87	-0.0052	-0.22533	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WEPL	'CLIFTON 115KV'	65	-0.00416	-0.22637	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	-0.00348	-0.22705	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'COGENTRIX 345KV'	200	-0.00179	-0.22874	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	MIDW	'COLBY 115KV'	6.37307	0.01231	-0.24284	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'COMANCHE 138KV'	160	-0.00176	-0.22877	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'COMANCHE 69KV'	63	-0.00176	-0.22877	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'EASTMAN 138KV'	355.0089	-0.00094	-0.22959	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	EMDE	'ELK RIVER 345KV'	150	-0.00475	-0.22578	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'EMPORIA 345KV'	610	0.00182	-0.23235	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'EVANS ENERGY CENTER 138KV'	340	-0.00752	-0.22301	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'FITZHUGH 161KV'	113.98	-0.00104	-0.22949	3

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

WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'FLINT CREEK 161KV'	428	-0.00139	-0.22914	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'FPLWND2 34KV'	7.9968	-0.00243	-0.22811	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'GILL ENERGY CENTER 138KV'	155	-0.00653	-0.224	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.26936	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	0.00797	-0.2385	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	MIPU	'GREENWOOD 161KV'	189.4481	0.00125	-0.23178	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	KACP	'HAWTHORN 161KV'	769	0.00183	-0.23236	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'HORSESHOE LAKE 138KV'	851.5	-0.00238	-0.22815	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'HORSESHOE LAKE 69KV'	16	-0.00233	-0.2282	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	KACP	'IATAN 345KV'	396	0.00383	-0.23436	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	KACP	'IATAN 345KV'	1819	0.00383	-0.23436	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00611	-0.23664	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01474	-0.24527	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'JL STALL 138KV'	455	-0.00087	-0.22966	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WEPL	'JUDSON LARGE 115KV'	111.547	0.00796	-0.23849	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'KNOXLEE 138KV'	160.7747	-0.00093	-0.2296	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'L&D13 69KV'	11	-0.00115	-0.22938	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	MIPU	'LAKE ROAD 161KV'	35	0.00267	-0.2332	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	MIPU	'LAKE ROAD 34KV'	92	0.00267	-0.2332	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	EMDE	'LARUSSEL 161KV'	46.61621	-0.00097	-0.22956	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'LAWRENCE ENERGY CENTER 230KV'	222.873	0.00663	-0.23116	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'LEBROCK 345KV'	365.0053	-0.00094	-0.22959	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'LIEBERMAN 138KV'	73.99999	-0.00088	-0.22965	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	KACP	'MARSHALL 161KV'	15	0.00103	-0.23156	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'MCCLAIN 138KV'	478	-0.0024	-0.22813	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	KACP	'MONTROSE 161KV'	363.8085	0.00111	-0.23164	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'MUSKOGEE 161KV'	166	-0.00154	-0.22899	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'MUSKOGEE 345KV'	1516	-0.00162	-0.22891	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'MUSTANG 138KV'	365.5	-0.00245	-0.22808	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'MUSTANG 69KV'	106	-0.00245	-0.22808	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'NARROWS 69KV'	22	-0.00115	-0.22938	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	KACY	'NEARMAN 161KV'	77	0.00193	-0.23246	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	KACY	'NEARMAN 20KV'	220	0.00193	-0.23246	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00176	-0.22877	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00177	-0.22876	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'OEC 345KV'	269.0035	-0.00173	-0.2288	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'ONE OAK 345KV'	300	-0.0027	-0.22783	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	EMDE	'OZARK BEACH 161KV'	16	-0.00077	-0.22976	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'PIRKEY GENERATION 138KV'	480	-0.00094	-0.22959	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	KACY	'QUINDARO 161KV'	140.2385	0.00193	-0.23246	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	KACY	'QUINDARO 69KV'	140	0.00193	-0.23246	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'REDBUD 345KV'	438.4026	-0.0024	-0.22813	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'RIVERSIDE STATION 138KV'	482	-0.00179	-0.22874	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	EMDE	'RIVERTON 161KV'	38	-0.00124	-0.22929	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	EMDE	'RIVERTON 69KV'	40.33317	-0.00121	-0.22932	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'SEMINOLE 138KV'	477.0613	-0.00219	-0.22834	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'SEMINOLE 345KV'	996	-0.00224	-0.22829	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	MIPU	'SIBLEY 161KV'	229.0558	0.00159	-0.23212	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	MIPU	'SIBLEY 69KV'	45.99999	0.00165	-0.23218	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'SMITH COGEN 138KV'	120	-0.00244	-0.22809	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'SOONER 138KV'	505	-0.00328	-0.22725	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'SOONER 345KV'	513	-0.00335	-0.22718	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'SOUTH 4TH ST 69KV'	42.7	-0.00331	-0.22722	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	MIPU	'SOUTH HARPER 161KV'	315	0.00112	-0.23165	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'SOUTHWESTERN STATION 138KV'	172	-0.0018	-0.22873	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	EMDE	'STATE LINE 161KV'	503	-0.0012	-0.22933	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	-0.00167	-0.22886	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'TINKER 5G 138KV'	62	-0.00236	-0.22817	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'TULSA POWER STATION 138KV'	77	-0.00178	-0.22875	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'TURK 138KV'	443	-0.00103	-0.2295	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'WACO 138KV'	17.972	-0.00663	-0.2239	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'WELEETKA 138KV'	128	-0.00181	-0.22872	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'WELSH 345KV'	1044	-0.00103	-0.2295	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'WILKES 138KV'	193.923	-0.00097	-0.22956	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	AEPW	'WILKES 345KV'	253	-0.00095	-0.22958	3
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	OKGE	'WOODWARD 24KV'	9.3	-0.00242	-0.22811	3
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.19357	4
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'HUTCHINSON ENERGY CENTER 115KV'	205	-0.03017	-0.20036	4
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.13496	5
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.23053	WERE	'BPU - CITY OF MCPHERSON 115KV'	115.5408	-0.09613	-0.1344	5
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.12761	6
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.03011	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.12755	6
AEPW	'ARSENAL HILL 69KV'	99	-0.00087	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09831	7
EMDE	'ASBURY 161KV'	20	-0.00119	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09863	7
WEPL	'BELOIT 115KV'	16.6	-0.00145	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09869	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WEPL	'A. M. MULLERGEN GENERATOR 115KV'	63	0.01228	-0.10841	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	MIPU	'ARIES 161KV'	176.2461	0.00122	-0.09735	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	KACP	'BULL CREEK 161KV'	192.0293	0.00166	-0.09779	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WEPL	'CIMARRON RIVER 115KV'	3.299129	0.00801	-0.10414	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	KACP	'CITY OF HIGGINSVILLE 69KV'	34	0.00122	-0.09735	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	MIDW	'COLBY 115KV'	6.37307	0.01231	-0.10844	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WERE	'EMPORIA 345KV'	610	0.00182	-0.09795	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	0.00797	-0.1041	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	MIPU	'GREENWOOD 161KV'	189.4481	0.00125	-0.09738	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	KACP	'HAWTHORN 161KV'	769	0.00183	-0.09796	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	KACP	'IATAN 345KV'	396	0.00383	-0.09896	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	KACP	'IATAN 345KV'	1819	0.00383	-0.09896	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00611	-0.10224	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01474	-0.11087	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WEPL	'JUDSON LARGE 115KV'	111.547	0.00796	-0.10409	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	MIPU	'LAKE ROAD 161KV'	35	0.00267	-0.0988	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	MIPU	'LAKE ROAD 34KV'	92	0.00267	-0.0988	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WERE	'LAWRENCE ENERGY CENTER 230KV'	222.873	0.00663	-0.09676	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	KACP	'MARSHALL 161KV'	15	0.00103	-0.09716	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	KACP	'MONTROSE 161KV'	363.8085	0.00111	-0.09724	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	KACY	'NEARMAN 161KV'	77	0.00193	-0.09806	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	KACY	'NEARMAN 20KV'	220	0.00193	-0.09806	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	KACY	'QUINDARO 161KV'	140.2385	0.00193	-0.09806	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	KACY	'QUINDARO 69KV'	140	0.00193	-0.09806	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	MIPU	'SIBLEY 161KV'	229.0558	0.00159	-0.09772	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	MIPU	'SIBLEY 69KV'	45.99999	0.00165	-0.09778	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	MIPU	'SOUTH HARPER 161KV'	315	0.00112	-0.09725	7
WERE	'CHANUTE 69KV'	28.957	-0.00197	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09941	7

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

WERE	'CITY OF AUGUSTA 69KV'	4.234998	-0.00587	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.10331	7
WERE	'CITY OF BURLINGTON 69KV'	16.234	-0.00348	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.10092	7
WERE	'CITY OF ERIE 69KV'	2.950998	-0.00197	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09941	7
WERE	'CITY OF FREDONIA 69KV'	6.396999	-0.00235	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09979	7
WERE	'CITY OF GIRARD 69KV'	5.608	-0.00148	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09892	7
WERE	'CITY OF IOLA 69KV'	12.428	-0.00167	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09911	7
WERE	'CITY OF MULVANE 69KV'	6.498999	-0.00632	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.10376	7
WERE	'CITY OF OSAGE CITY 115KV'	8.85	-0.00013	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09757	7
AEPW	'COGENTRIX 345KV'	694	-0.00179	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09923	7
OKGE	'CONTINENTAL EMPIRE 138KV'	32	-0.00328	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.10072	7
AEPW	'EASTMAN 138KV'	130.0011	-0.00094	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09838	7
WERE	'EVANS ENERGY CENTER 138KV'	467	-0.00752	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.10496	7
AEPW	'FITZHUGH 161KV'	12.02003	-0.00104	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09848	7
AEPW	'FULTON 115KV'	32.99999	-0.00091	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09835	7
WERE	'GETTY 69KV'	35	-0.0057	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.10314	7
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.00653	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.10397	7
WERE	'GILL ENERGY CENTER 69KV'	118	-0.00653	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.10397	7
WEPL	'GREENLEAF 115KV'	8	-0.00316	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.1006	7
WEPL	'HARPER 138KV'	17.21	-0.00385	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.10129	7
AEPW	'KIOWA 345KV'	1347.994	-0.00185	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09929	7
AEPW	'KNOXLEE 138KV'	262.2253	-0.00093	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09837	7
AEPW	'L&D13 69KV'	13	-0.00115	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09859	7
EMDE	'LARUSSEL 161KV'	249.3838	-0.00097	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09841	7
WERE	'LAWRENCE ENERGY CENTER 230KV'	46.12704	0.00063	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09681	7
AEPW	'LEBROCK 345KV'	331.9947	-0.00094	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09838	7
AEPW	'LIEBERMAN 138KV'	154	-0.00088	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09832	7
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.00097	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09841	7
AEPW	'MATTISON 161KV'	510	-0.00141	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09885	7
OKGE	'MCCLAIN 138KV'	42	-0.0024	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09984	7
AEPW	'MID-CONTINENT 138KV'	142.0984	-0.00158	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09902	7
OKGE	'MUSKOGEE 161KV'	31	-0.00154	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09898	7
OKGE	'MUSKOGEE 345KV'	20	-0.00162	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09906	7
AEPW	'NARROWS 69KV'	3	-0.00115	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09859	7
MIPU	'NEVADA 69KV'	20.3	0.00054	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.0969	7
AEPW	'NORTH MARSHALL 69KV'	4	-0.00093	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09837	7
AEPW	'OEC 345KV'	1878.026	-0.00173	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09917	7
OKGE	'ONE OAK 345KV'	36	-0.0027	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.10014	7
WERE	'OXFORD 138KV'	3	-0.00541	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.10285	7
KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	0.00083	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09661	7
AEPW	'PIRKEY GENERATION 138KV'	35	-0.00094	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09838	7
OKGE	'RED ROCK 345KV'	1050	-0.00335	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.10079	7
OKGE	'REDBUD 345KV'	761.5974	-0.0024	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09984	7
AEPW	'RIVER SIDE 138KV'	172	-0.00179	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09923	7
AEPW	'RIVERSIDE STATION 138KV'	240	-0.00179	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09923	7
EMDE	'RIVERTON 161KV'	284	-0.00124	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09868	7
EMDE	'RIVERTON 69KV'	27.66683	-0.00121	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09865	7
OKGE	'SEMINOLE 138KV'	27.93872	-0.00219	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09963	7
OKGE	'SOONER 138KV'	24.99997	-0.00328	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.10072	7
WERE	'SOUTH SENECA 115KV'	16.7	0.00039	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09705	7
AEPW	'SOUTHWESTERN STATION 138KV'	587	-0.0018	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09924	7
WERE	'ST JOHN 115KV'	7.5	-0.00173	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09917	7
EMDE	'STATE LINE 161KV'	103	-0.0012	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09864	7
WERE	'TECUMSEH ENERGY CENTER 115KV'	52.99999	-0.00167	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09911	7
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.00211	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09955	7
AEPW	'TULSA POWER STATION 138KV'	217	-0.00178	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09922	7
AEPW	'TULSA POWER STATION 69KV'	80	-0.00178	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09922	7
AEPW	'TURK 138KV'	35	-0.00103	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09847	7
AEPW	'WELEETKA 138KV'	4.000004	-0.00181	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09925	7
AEPW	'WILKES 138KV'	269.077	-0.00097	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09841	7
AEPW	'WILKES 345KV'	58	-0.00095	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09839	7
MIPU	'ARIES 161KV'	418.7539	0.00122	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09622	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'AES 181KV'	320	-0.00113	-0.095	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	EMDE	'ASBURY 161KV'	191	-0.00119	-0.09494	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WERE	'CHANUTE 69KV'	58.843	-0.00197	-0.09416	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00587	-0.09026	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WERE	'CITY OF BURLINGTON 69KV'	39.766	-0.00348	-0.09265	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WERE	'CITY OF ERIE 69KV'	23.579	-0.00197	-0.09416	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WERE	'CITY OF FREDONIA 69KV'	3.897	-0.00235	-0.09378	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WERE	'CITY OF GIRARD 69KV'	5.092	-0.00148	-0.09465	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WERE	'CITY OF IOLA 69KV'	27.273	-0.00167	-0.09446	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WERE	'CITY OF MULVANE 69KV'	9.291	-0.00632	-0.08981	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WERE	'CITY OF NEODESHA 69KV'	4.5	-0.00227	-0.09386	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WERE	'CITY OF WINFIELD 69KV'	37.87	-0.0052	-0.09093	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WEPL	'CLIFTON 115KV'	65	-0.00416	-0.09197	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	-0.00348	-0.09265	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'COGENTRIX 345KV'	200	-0.00179	-0.09434	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'COMANCHE 138KV'	160	-0.00176	-0.09437	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'COMANCHE 69KV'	63	-0.00176	-0.09437	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'EASTMAN 138KV'	355.0089	-0.00094	-0.09519	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	EMDE	'ELK RIVER 345KV'	150	-0.00475	-0.09138	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WERE	'EVANS ENERGY CENTER 138KV'	340	-0.00752	-0.08861	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'FITZHUGH 161KV'	113.98	-0.00104	-0.09509	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'FLINT CREEK 161KV'	428	-0.00139	-0.09474	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'FPLWIND2 34KV'	7.9968	-0.00243	-0.0937	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WERE	'GILL ENERGY CENTER 138KV'	155	-0.00653	-0.0896	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'HORSESHOE LAKE 138KV'	851.5	-0.00238	-0.09375	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'HORSESHOE LAKE 69KV'	16	-0.00233	-0.0938	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'JL STALL 138KV'	455	-0.00087	-0.09526	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'KNOXLEE 138KV'	160.7747	-0.00093	-0.0952	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'L&D13 69KV'	11	-0.00115	-0.09498	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	EMDE	'LARUSSEL 161KV'	46.61621	-0.00097	-0.09516	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'LEBROCK 345KV'	365.0053	-0.00094	-0.09519	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'LIEBERMAN 138KV'	73.99999	-0.00088	-0.09525	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'MCCLAIN 138KV'	478	-0.0024	-0.09373	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'MUSKOGEE 161KV'	166	-0.00154	-0.09459	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'MUSKOGEE 345KV'	1516	-0.00162	-0.09451	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'MUSTANG 138KV'	365.5	-0.00245	-0.09368	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'MUSTANG 69KV'	106	-0.00245	-0.09368	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'NARROWS 69KV'	22	-0.00115	-0.09498	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00176	-0.09437	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00177	-0.09436	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'OEC 345KV'	269.0035	-0.00173	-0.0944	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'ONE OAK 345KV'	300	-0.0027	-0.09343	8

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

WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	EMDE	'OZARK BEACH 161KV'	16	-0.00077	-0.09536	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'PIRKEY GENERATION 138KV'	480	-0.00094	-0.09519	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'REDBUD 345KV'	438.4026	-0.0024	-0.09373	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'RIVERSIDE STATION 138KV'	482	-0.00179	-0.09434	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	EMDE	'RIVERTON 161KV'	38	-0.00124	-0.09489	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	EMDE	'RIVERTON 69KV'	40.33317	-0.00121	-0.09492	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'SEMINOLE 138KV'	477.0613	-0.00219	-0.09394	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'SEMINOLE 345KV'	996	-0.00224	-0.09389	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'SMITH COGEN 138KV'	120	-0.00244	-0.09369	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'SOONER 138KV'	505	-0.00328	-0.09285	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'SOONER 345KV'	513	-0.00335	-0.09278	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'SOUTH 4TH ST 69KV'	42.7	-0.00331	-0.09282	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'SOUTHWESTERN STATION 138KV'	172	-0.0018	-0.09433	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	EMDE	'STATE LINE 161KV'	503	-0.0012	-0.09493	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	-0.00167	-0.09446	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'TINKER 5G 138KV'	62	-0.00236	-0.09377	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'TULSA POWER STATION 138KV'	77	-0.00178	-0.09435	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'TURK 138KV'	443	-0.00103	-0.0951	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WERE	'WACO 138KV'	17.972	-0.00663	-0.0895	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'WEELETKA 138KV'	128	-0.00181	-0.09432	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'WELSH 345KV'	1044	-0.00103	-0.0951	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'WILKES 138KV'	193.923	-0.00097	-0.09516	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	AEPW	'WILKES 345KV'	253	-0.00095	-0.09518	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	OKGE	'WOODWARD 24KV'	9.3	-0.00242	-0.09371	8
WERE	'BROWN COUNTY 115KV'	5.5	0.0011	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09634	8
KACP	'BULL CREEK 161KV'	180.9707	0.00166	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09578	8
WEPL	'CIMARRON RIVER 115KV'	43.70087	0.00801	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.08943	8
MIDW	'COLBY 115KV'	6.62693	0.01231	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.08513	8
WERE	'EMPORIA 345KV'	218	0.00182	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09562	8
KACP	'GARDNER 161KV'	11	0.00166	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09578	8
MIDW	'GREAT BEND PLANT 69KV'	10	0.01062	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.08682	8
WEPL	'GREENSBURG 115KV'	6.2	0.00395	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09349	8
MIPU	'GREENWOOD 161KV'	58.35188	0.00125	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09619	8
WERE	'HOLTON 115KV'	19.8	0.00335	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09409	8
WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.00611	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09133	8
KACY	'KAW 69KV'	192	0.00192	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09552	8
MIPU	'LAKE ROAD 161KV'	91	0.00267	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09477	8
MIDW	'Lyons 115kv'	999	0.01111	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.08633	8
KACP	'MARSHALL 161KV'	39.1	0.00103	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09641	8
KACP	'MONTROSE 161KV'	17.1915	0.00111	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09633	8
KACY	'NEARMAN 161KV'	3	0.00193	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09551	8
KACY	'NEARMAN 20KV'	14.99998	0.00193	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09551	8
WEPL	'NORTH WEST GREAT BEND 115KV'	14.24	0.01228	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.08516	8
KACP	'NORTHEAST 13KV'	229	0.00189	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09555	8
KACP	'NORTHEAST 161KV'	229	0.00189	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09555	8
MIDW	'pawnee 115kv'	999	0.01111	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.08633	8
KACY	'QUINDARO 161KV'	44.76152	0.00193	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09551	8
KACY	'QUINDARO 69KV'	32	0.00193	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09551	8
MIPU	'RALPH GREEN 69KV'	73.7	0.00118	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09626	8
MIDW	'rice 115kv'	999	0.01111	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.08633	8
WEPL	'RUSSELL 115KV'	27.9	0.01042	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.08702	8
MIPU	'SIBLEY 161KV'	20.94418	0.00159	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09585	8
WEPL	'SMITH CENTER 115KV'	6.15	0.00729	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09015	8
WEPL	'SOUTH DODGE 115KV'	4.2	0.00797	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.08947	8
MIPU	'TWA 161KV'	32.1	0.00216	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.09528	8
MIDW	'ATWOOD 115KV'	4	0.01295	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.08449	9
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.01474	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.0827	9
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.069	10
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.03011	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.06894	10
WERE	'BPU - CITY OF MCPHERSON 115KV'	58.45923	-0.09613	WERE	'HUTCHINSON ENERGY CENTER 115KV'	205	-0.03017	-0.06596	11
WEPL	'PLAINVILLE 115KV'	5.79	0.03159	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.06585	11
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	0.03883	WERE	'SMOKEY HILLS 34KV'	152	0.09744	-0.05861	12
WERE	'CITY OF MULVANE 69KV'	6.498999	-0.00632	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04515	16
WERE	'EVANS ENERGY CENTER 138KV'	467	-0.00752	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04635	16
WERE	'GETTY 69KV'	35	-0.0057	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04453	16
WERE	'GILL ENERGY CENTER 138KV'	84.99999	-0.00653	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04536	16
WERE	'GILL ENERGY CENTER 69KV'	118	-0.00653	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04536	16
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01474	-0.04491	16
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.03011	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01474	-0.04485	16
WERE	'CITY OF BURLINGTON 69KV'	16.234	-0.00348	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04231	17
OKGE	'CONTINENTAL EMPIRE 138KV'	32	-0.00328	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04211	17
WEPL	'GREENLEAF 115KV'	8	-0.00316	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04199	17
WEPL	'HARPER 138KV'	17.21	-0.00385	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04268	17
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	WEPL	'A. M. MULLERGRENNER GENERATOR 115KV'	63	0.01228	-0.04245	17
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	MIDW	'COLBY 115KV'	6.37307	0.01231	-0.04248	17
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.03011	WEPL	'A. M. MULLERGRENNER GENERATOR 115KV'	63	0.01228	-0.04239	17
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.03011	MIDW	'COLBY 115KV'	6.37307	0.01231	-0.04242	17
OKGE	'ONE OAK 345KV'	36	-0.0027	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04153	17
OKGE	'RED ROCK 345KV'	1050	-0.00335	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04218	17
OKGE	'SOONER 138KV'	24.99997	-0.00328	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04211	17
AEPW	'ARSENAL HILL 69KV'	99	-0.00087	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.0397	18
EMDE	'ASBURY 161KV'	20	-0.00119	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04002	18
WEPL	'BELOIT 115KV'	16.6	-0.00145	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04028	18
WERE	'CHANUTE 69KV'	28.957	-0.00197	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.0408	18
WERE	'CITY OF FREDONIA 69KV'	6.396999	-0.00235	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04118	18
WERE	'CITY OF IOLA 69KV'	12.428	-0.00167	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.0405	18
AEPW	'COCENTRIX 345KV'	694	-0.00179	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04062	18
AEPW	'EASTMAN 138KV'	130.0011	-0.00094	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03977	18
AEPW	'FITZHUGH 161KV'	12.02003	-0.00104	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03987	18
AEPW	'FULTON 115KV'	32.99999	-0.00091	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03974	18
AEPW	'KIOWA 345KV'	1347.994	-0.00185	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04068	18
AEPW	'KNOXLEE 138KV'	262.2253	-0.00093	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03976	18
AEPW	'L&D13 69KV'	13	-0.00115	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03998	18
EMDE	'LARUSSEL 161KV'	249.3838	-0.00097	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.0398	18
AEPW	'LEBROCK 345KV'	331.9947	-0.00094	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03977	18
AEPW	'LIEBERMAN 138KV'	154	-0.00088	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03971	18
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.00097	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.0398	18
AEPW	'MATTISON 161KV'	510	-0.00141	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04024	18
OKGE	'MCCLAIN 138KV'	42	-0.0024	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04123	18
AEPW	'MID-CONTINENT 138KV'	142.0984	-0.00158	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04041	18
OKGE	'MUSKOGEE 161KV'	31	-0.00154	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04037	18
OKGE	'MUSKOGEE 345KV'	20	-0.00162	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04045	18
AEPW	'OEC 345KV'	1878.026</							

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

AEPW	'PIRKEY GENERATION 138KV'	35	-0.00094	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03977	18
OKGE	'REDBUD 345KV'	761.5974	-0.0024	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04123	18
AEPW	'RIVER SIDE 138KV'	172	-0.00179	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04062	18
AEPW	'RIVERSIDE STATION 138KV'	240	-0.00179	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04062	18
EMDE	'RIVERTON 161KV'	284	-0.00124	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04007	18
EMDE	'RIVERTON 69KV'	27.66683	-0.00121	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04004	18
OKGE	'SEMINOLE 138KV'	27.93872	-0.00219	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04102	18
AEPW	'SOUTHWESTERN STATION 138KV'	587	-0.0018	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04063	18
WERE	'ST JOHN 115KV'	7.5	-0.00173	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04056	18
EMDE	'STATE LINE 161KV'	103	-0.0012	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04003	18
WERE	'TECUMSEH ENERGY CENTER 115KV'	52.99999	-0.00167	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.0405	18
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.00211	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04094	18
AEPW	'TULSA POWER STATION 138KV'	217	-0.00178	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04061	18
AEPW	'TULSA POWER STATION 69KV'	80	-0.00178	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.04061	18
AEPW	'TURK 138KV'	35	-0.00103	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03996	18
AEPW	'WILKES 138KV'	269.077	-0.00097	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.0398	18
AEPW	'WILKES 345KV'	58	-0.00095	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03978	18
MIPU	'ARIES 161KV'	418.7539	0.00122	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03761	19
KACP	'BULL CREEK 161KV'	180.9707	0.00166	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03717	19
WERE	'CITY OF OSAGE CITY 115KV'	8.85	-0.00013	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03896	19
KACP	'GARDNER 161KV'	11	0.00166	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03717	19
MIPU	'GREENWOOD 161KV'	58.35188	0.00125	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03758	19
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	0.00797	-0.03814	19
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	WEPL	'JUDSON LARGE 115KV'	111.547	0.00796	-0.03813	19
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.03011	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	0.00797	-0.03808	19
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.03011	WEPL	'JUDSON LARGE 115KV'	111.547	0.00796	-0.03807	19
WERE	'LAWRENCE ENERGY CENTER 230KV'	46.12704	0.00063	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.0382	19
KACP	'MARSHALL 161KV'	39.1	0.00103	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.0378	19
KACP	'MONTROSE 161KV'	17.1915	0.00111	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03772	19
MIPU	'NEVADA 69KV'	20.3	0.00054	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03829	19
KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	0.00083	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.038	19
MIPU	'RALPH GREEN 69KV'	73.7	0.00118	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03765	19
MIPU	'SIBLEY 161KV'	20.94418	0.00159	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03724	19
WERE	'SOUTH SENECA 115KV'	16.7	0.00039	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03844	19
WERE	'EMPORIA 345KV'	218	0.00182	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03701	20
WERE	'HOLTON 115KV'	19.8	0.00335	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03548	20
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00611	-0.03628	20
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.03011	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00611	-0.03622	20
KACY	'KAW 69KV'	192	0.00192	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03691	20
MIPU	'LAKE ROAD 161KV'	91	0.00267	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03616	20
KACY	'NEARMAN 20KV'	14.99998	0.00193	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.0369	20
KACP	'NORTHEAST 13KV'	229	0.00189	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03694	20
KACP	'NORTHEAST 161KV'	229	0.00189	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03694	20
KACY	'QUINDARO 161KV'	44.76152	0.00193	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.0369	20
KACY	'QUINDARO 69KV'	32	0.00193	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.0369	20
MIPU	'TWA 161KV'	32.1	0.00216	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03667	20
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	KACP	'IATAN 345KV'	396	0.00383	-0.034	21
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	KACP	'IATAN 345KV'	1819	0.00383	-0.034	21
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.03011	KACP	'IATAN 345KV'	396	0.00383	-0.03394	21
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.03011	KACP	'IATAN 345KV'	1819	0.00383	-0.03394	21
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	MIPU	'LAKE ROAD 161KV'	35	0.00267	-0.03284	22
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	MIPU	'LAKE ROAD 34KV'	92	0.00267	-0.03284	22
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.03011	MIPU	'LAKE ROAD 161KV'	35	0.00267	-0.03278	22
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.03011	MIPU	'LAKE ROAD 34KV'	92	0.00267	-0.03278	22
WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.00611	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03272	22
WEPL	'CIMARRON RIVER 115KV'	43.70087	0.00801	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	0.03883	-0.03082	23
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	MIPU	'ARIES 161KV'	176.2461	0.00122	-0.03139	23
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	KACP	'BULL CREEK 161KV'	192.0293	0.00166	-0.03183	23
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	KACP	'CITY OF HIGGINSVILLE 69KV'	34	0.00122	-0.03139	23
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	WERE	'EMPORIA 345KV'	610	0.00182	-0.03199	23
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	MIPU	'GREENWOOD 161KV'	189.4481	0.00125	-0.03142	23
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	KACP	'HAWTHORN 161KV'	769	0.00183	-0.032	23
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	WERE	'LAWRENCE ENERGY CENTER 230KV'	222.873	0.00063	-0.0308	23
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	KACP	'MARSHALL 161KV'	15	0.00103	-0.0312	23
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	KACP	'MONTROSE 161KV'	363.8085	0.00111	-0.03128	23
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	KACY	'NEARMAN 161KV'	77	0.00193	-0.0321	23
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	KACY	'NEARMAN 20KV'	220	0.00193	-0.0321	23
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	KACY	'QUINDARO 161KV'	140.2385	0.00193	-0.0321	23
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	KACY	'QUINDARO 69KV'	140	0.00193	-0.0321	23
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	MIPU	'SIBLEY 161KV'	229.0558	0.00159	-0.03176	23
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	MIPU	'SIBLEY 69KV'	45.99999	0.00165	-0.03182	23
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.03017	MIPU	'SOUTH HARPER 161KV'	315	0.00112	-0.03129	23
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.03011	MIPU	'ARIES 161KV'	176.2461	0.00122	-0.03133	23
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.03011	KACP	'BULL CREEK 161KV'	192.0293	0.00166	-0.03177	23
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.03011	KACP	'CITY OF HIGGINSVILLE 69KV'	34	0.00122	-0.03133	23
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.03011	WERE	'EMPORIA 345KV'	610	0.00182	-0.03193	23
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.03011	MIPU	'GREENWOOD 161KV'	189.4481	0.00125	-0.03136	23
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.03011	KACP	'HAWTHORN 161KV'	769	0.00183	-0.03194	23
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.03011	KACP	'MARSHALL 161KV'	15	0.00103	-0.03114	23
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.03011	KACP	'MONTROSE 161KV'	363.8085	0.00111	-0.03122	23
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.03011	KACY	'NEARMAN 161KV'	77	0.00193	-0.03204	23
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.03011	KACY	'NEARMAN 20KV'	220	0.00193	-0.03204	23
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.03011	KACY	'QUINDARO 161KV'	140.2385	0.00193	-0.03204	23
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.03011	KACY	'QUINDARO 69KV'	140	0.00193	-0.03204	23
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.03011	MIPU	'SIBLEY 161KV'	229.0558	0.00159	-0.0317	23
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.03011	MIPU	'SIBLEY 69KV'	45.99999	0.00165	-0.03176	23
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.03011	MIPU	'SOUTH HARPER 161KV'	315	0.00112	-0.03123	23
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.03011	WERE	'LAWRENCE ENERGY CENTER 230KV'	222.873	0.00063	-0.03074	24

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

Upgrade: SOUTHWEST SHREVEPORT - SOUTHWEST SHREVEPORT TAP 138KV CKT 1 Displacement
 Limiting Facility: SOUTHWEST SHREVEPORT - SOUTHWEST SHREVEPORT TAP 138KV CKT 1
 Direction: From->To
 Line Outage: SPP-AEPW-30
 Flowgate: 53453534551SPP-AEPW-301108SPP
 Date Redispatch Needed: Starting 2008 6/1 - 10/1 Until EOC
 Season Flowgate Identified: 2008 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount

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

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
1158760		0.3	0.5						
1158761		0.3	0.5						
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.17667	3
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	WERE	'ABILENE ENERGY CENTER 115KV'	45	-0.00125	-0.13876	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	CELE	'ACADIA 138KV'	88.79679	-0.00225	-0.13751	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	OKGE	'AES 161KV'	320	-0.00068	-0.13933	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	WFEC	'ANADARKO 138KV'	285.9545	-0.00272	-0.13729	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	EMDE	'ASBURY 161KV'	191	-0.00126	-0.13875	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	LEPA	'BAYOU RAMOS 138KV'	29.82497	-0.00181	-0.1382	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SWPA	'BEAVER 161KV'	142.4147	-0.00113	-0.13888	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SPS	'BLACKHAWK 115KV'	220	-0.00218	-0.13783	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	GRDA	'BOOMER 69KV'	24	-0.0021	-0.13791	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	WERE	'BPU - CITY OF MCPHERSON 115KV'	165	-0.00128	-0.13873	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SWPA	'BROKEN BOW 138KV'	93.6	-0.00614	-0.13387	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SWPA	'BULL SHOALS 161KV'	279.4	-0.00042	-0.13959	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SPS	'CAPROCK 115KV'	79.98182	-0.00227	-0.13774	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SWPA	'CARTHAGE 69KV'	32	-0.00119	-0.13882	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	WERE	'CHANUTE 69KV'	55.637	-0.00139	-0.13862	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00152	-0.13849	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	WERE	'CITY OF BURLINGTON 69KV'	34.061	-0.00137	-0.13864	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	WERE	'CITY OF ERIE 69KV'	23.374	-0.00139	-0.13862	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	WERE	'CITY OF FREDONIA 69KV'	3.596	-0.00143	-0.13858	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	WERE	'CITY OF GIRARD 69KV'	4.592	-0.00131	-0.1387	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	LEPA	'CITY OF HOUMA SUB 115KV'	84	-0.00129	-0.13872	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	WERE	'CITY OF IOLA 69KV'	24.471	-0.00135	-0.13866	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	WERE	'CITY OF MULVANE 69KV'	8.29	-0.00154	-0.13847	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	WERE	'CITY OF NEODESHA 69KV'	4.495	-0.00145	-0.13856	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	WERE	'CITY OF WINFIELD 69KV'	26.77	-0.00174	-0.13827	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SWPA	'CLARENCE CANNON DAM 69KV'	39.4	-0.00062	-0.13939	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	-0.00137	-0.13864	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	AEPW	'COGENTRIX 345KV'	765	-0.00183	-0.13818	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	AEPW	'COMANCHE 138KV'	160	-0.00275	-0.13726	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	AEPW	'COMANCHE 69KV'	63	-0.00276	-0.13725	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SPS	'CUNNINGHAM 115KV'	170.9048	-0.00229	-0.13772	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SPS	'CUNNINGHAM 230KV'	306	-0.00229	-0.13772	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SPS	'CZ 69KV'	39	-0.00221	-0.1378	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	CELE	'D.G. HUNTER POWER STATION 138KV'	84.39839	-0.00286	-0.13715	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SWPA	'DENISON 138KV'	59.59999	-0.0035	-0.13651	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	EMDE	'ELK RIVER 345KV'	46	-0.00145	-0.13856	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	WERE	'ELK RIVER WIND 34KV'	100	-0.00145	-0.13856	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SWPA	'EUFAULA 138KV'	51	-0.00152	-0.13849	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SWPA	'EUFAULA 161KV'	69.8	-0.00152	-0.13849	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	CELE	'EVANGELINE 138KV'	138.0374	-0.00271	-0.1373	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	CELE	'EVANGELINE 230KV'	168.5562	-0.00267	-0.13734	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.00155	-0.13846	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	AEPW	'FITZHUGH 161KV'	101	-0.00043	-0.13958	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	AEPW	'FLINT CREEK 161KV'	428	-0.00141	-0.1386	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	OKGE	'FPLWIND2 34KV'	102	-0.00241	-0.1376	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	LEPA	'FROGSTATION 69KV'	3	-0.00236	-0.13765	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	WERE	'GILL ENERGY CENTER 138KV'	216	-0.00154	-0.13847	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	WERE	'GILL ENERGY CENTER 69KV'	75	-0.00155	-0.13846	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	GRDA	'GRDA1 161KV'	190	-0.00154	-0.13847	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	GRDA	'GRDA1 345KV'	220	-0.00154	-0.13847	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SWPA	'GREERS FERRY 161KV'	93.6	0.00034	-0.14035	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SPS	'HARRINGTON 230KV'	1066	-0.00217	-0.13784	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	OKGE	'HORSESHOE LAKE 138KV'	511.7124	-0.00255	-0.13746	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	OKGE	'HORSESHOE LAKE 69KV'	16	-0.00255	-0.13746	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SPS	'HUBRCO2 69KV'	11	-0.00218	-0.13783	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	WFEC	'HUGO 138KV'	450	-0.00528	-0.13473	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	WERE	'HUTCHINSON ENERGY CENTER 115KV'	345	-0.00129	-0.13872	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	WERE	'HUTCHINSON ENERGY CENTER 69KV'	45	-0.00129	-0.13872	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	LEPA	'IRION SUB 230KV'	25	-0.00126	-0.13875	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	WERE	'JEFFREY ENERGY CENTER 230KV'	476.1294	-0.0012	-0.13881	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	WERE	'JEFFREY ENERGY CENTER 345KV'	960	-0.0012	-0.13881	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SPS	'JONES 230KV'	486	-0.00233	-0.13768	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SWPA	'JONESBORO 161KV'	43	0.0002	-0.14021	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SWPA	'KENNETT 69KV'	7.5	0.00009	-0.1401	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	GRDA	'KERR 115KV'	13.5	-0.00152	-0.13849	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	GRDA	'KERR 161KV'	13.5	-0.00153	-0.13848	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SWPA	'KEYSTONE DAM 161KV'	150.6	-0.00181	-0.1382	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	AEPW	'L&D13 69KV'	11	-0.00072	-0.13929	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	EMDE	'LARUSSEL 161KV'	116	-0.00115	-0.13866	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	WERE	'LAWRENCE ENERGY CENTER 230KV'	231.3038	-0.00118	-0.13883	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SPS	'LP-BRND2 69KV'	20	-0.00233	-0.13768	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SPS	'LP-MACK2 69KV'	60	-0.00233	-0.13768	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SPS	'MADOX 115KV'	118	-0.00229	-0.13772	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SWPA	'MALDEN 69KV'	7	0.00005	-0.14006	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	AEPW	'MATTISON 161KV'	320	-0.00139	-0.13862	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	OKGE	'MCCLAIN 138KV'	478	-0.00261	-0.1374	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SPS	'MOORE COUNTY 115KV'	48	-0.00216	-0.13785	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	WFEC	'MORLND 138KV'	312.5645	-0.00241	-0.1376	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	OKGE	'MUSKOGEE 161KV'	166	-0.00154	-0.13847	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	OKGE	'MUSKOGEE 345KV'	1516	-0.00177	-0.13824	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SPS	'MUSTANG 115KV'	300	-0.0023	-0.13771	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	OKGE	'MUSTANG 138KV'	365.5	-0.00256	-0.13745	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SPS	'MUSTANG 230KV'	360	-0.00229	-0.13772	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	OKGE	'MUSTANG 69KV'	106	-0.00256	-0.13745	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	AEPW	'NARROWS 69KV'	22	-0.00794	-0.13207	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	CELE	'NATCHITOCHES 69KV'	16.50468	-0.00283	-0.13718	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SPS	'NICHOLS 115KV'	147	-0.00218	-0.13783	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SPS	'NICHOLS 230KV'	147	-0.00217	-0.13784	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00166	-0.13835	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00165	-0.13836	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	AEPW	'OEC 345KV'	306	-0.00175	-0.13826	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	OMPA	'OMPA-KAW 69KV'	19.7	-0.00211	-0.1379	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	OMPA	'OMPA-PONCA CITY 69KV'	78.11124	-0.00211	-0.1379	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	OKGE	'ONE OAK 345KV'	136	-0.00248	-0.13753	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SWPA	'OZARK 161KV'	150.6	-0.00043	-0.13958	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	EMDE	'OZARK BEACH 161KV'	16	-0.00083	-0.13918	4

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

AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SWPA	'PARAGOULD 69KV'	5.5	0.00015	-0.14016	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	GRDA	'PENSACOLA 161KV'	33	-0.00147	-0.13854	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	GRDA	'PENSACOLA 69KV'	29.80457	-0.00146	-0.13855	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SPS	'PLANTX 115KV'	205	-0.00227	-0.13774	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SPS	'PLANTX 230KV'	189	-0.00227	-0.13774	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	OKGE	'REDBUD 345KV'	100	-0.00246	-0.13755	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	AEPW	'RIVER SIDE 138KV'	172	-0.00184	-0.13817	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	AEPW	'RIVERSIDE STATION 138KV'	482	-0.00184	-0.13817	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	EMDE	'RIVERTON 161KV'	195.454	-0.00128	-0.13873	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	EMDE	'RIVERTON 69KV'	47.94924	-0.00127	-0.13874	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SWPA	'ROBERT S. KERR 161KV'	314.8	-0.0009	-0.13911	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	CELE	'RODEMACHIER 230KV'	651	-0.00292	-0.13709	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	GRDA	'SALINA 161KV'	29.13254	-0.00153	-0.13848	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SPS	'SAN JUAN 230KV'	119.9727	-0.00228	-0.13773	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	OKGE	'SEMINOLE 138KV'	480.0266	-0.00283	-0.13718	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	OKGE	'SEMINOLE 345KV'	996	-0.00284	-0.13717	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SPS	'SIDRCH 69KV'	20	-0.00218	-0.13783	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SWPA	'SIKESTON 161KV'	235	-0.00003	-0.13998	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	WFEC	'SLEEPING BEAR 138KV'	80	-0.0024	-0.13761	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	OKGE	'SLEEPING BEAR 34KV'	120	-0.00241	-0.1376	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	OKGE	'SMITH COGEN 138KV'	120	-0.00257	-0.13744	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	OKGE	'SOONER 138KV'	505	-0.00222	-0.13779	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	OKGE	'SOONER 345KV'	513	-0.00231	-0.1377	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	AEPW	'SOUTHWESTERN STATION 138KV'	376	-0.00272	-0.13729	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	EMDE	'STATE LINE 161KV'	503	-0.00126	-0.13875	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SPS	'STEER WATER 115KV'	79.98182	-0.0022	-0.13781	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	CELE	'TECHE 138KV'	212.9806	-0.00216	-0.13785	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00119	-0.13882	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SPS	'TOLK 230KV'	1024.036	-0.00228	-0.13773	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SWPA	'TRUMAN 161KV'	102	-0.00087	-0.13914	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	AEPW	'TULSA POWER STATION 138KV'	152	-0.00181	-0.1382	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	WERE	'WACO 138KV'	17.967	-0.00154	-0.13847	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	LEPA	'WATERLOO SUB 230KV'	6	-0.00127	-0.13874	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	AEPW	'WEATHERFORD 34KV'	148	-0.00255	-0.13746	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SWPA	'WEBBERS FALLS 161KV'	39.2	-0.00143	-0.13858	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	AEPW	'WELSHETA 138KV'	84	-0.00236	-0.13765	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	AEPW	'WELSH 345KV'	1044	-0.00774	-0.13227	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	AEPW	'WILKES 138KV'	199.2238	-0.01429	-0.12572	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	AEPW	'WILKES 345KV'	297.2948	0.00169	-0.1417	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	SPS	'WILWIND 230KV'	159.9636	-0.00217	-0.13784	4
AEPW	'KNOXLEE 138KV'	259	-0.09455	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.13121	4
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	AEPW	'LEBROCK 345KV'	315	-0.03252	-0.10749	5
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	AEPW	'PIRKEY GENERATION 138KV'	490	-0.04595	-0.09406	5
AEPW	'EASTMAN 138KV'	330.01	-0.07379	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.11045	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	WERE	'ABILENE ENERGY CENTER 115KV'	45	-0.00125	-0.0933	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	OKGE	'AES 161KV'	320	-0.00068	-0.09387	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	EMDE	'ASBURY 161KV'	191	-0.00126	-0.09329	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	SWPA	'BEAVER 161KV'	142.4147	-0.00113	-0.09342	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	WERE	'BPU - CITY OF MCPHERSON 115KV'	165	-0.00128	-0.09327	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	SWPA	'BULL SHOALS 161KV'	279.4	-0.00042	-0.09413	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	SWPA	'CARTHAGE 69KV'	32	-0.00119	-0.09336	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	WERE	'CHANUTE 69KV'	55.637	-0.00139	-0.09316	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00152	-0.09303	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	WERE	'CITY OF BURLINGTON 69KV'	34.061	-0.00137	-0.09318	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	WERE	'CITY OF ERIE 69KV'	23.374	-0.00139	-0.09316	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	WERE	'CITY OF FREDONIA 69KV'	3.596	-0.00143	-0.09312	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	WERE	'CITY OF GIRARD 69KV'	4.592	-0.00131	-0.09324	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	LEPA	'CITY OF HOUMA SUB 115KV'	84	-0.00129	-0.09326	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	WERE	'CITY OF IOLA 69KV'	24.471	-0.00135	-0.0932	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	WERE	'CITY OF MULVANE 69KV'	8.29	-0.00154	-0.09301	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	WERE	'CITY OF NEODESHA 69KV'	4.495	-0.00145	-0.0931	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	SWPA	'CLARENCE CANNON DAM 69KV'	39.4	-0.00062	-0.09393	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	-0.00137	-0.09318	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	EMDE	'ELK RIVER 345KV'	46	-0.00145	-0.0931	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	WERE	'ELK RIVER WIND 34KV'	100	-0.00145	-0.0931	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	SWPA	'EUFAULA 138KV'	51	-0.00152	-0.09303	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	SWPA	'EUFAULA 161KV'	69.8	-0.00152	-0.09303	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.00155	-0.093	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	AEPW	'FITZHUGH 161KV'	101	-0.00043	-0.09412	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	AEPW	'FLINT CREEK 161KV'	428	-0.00141	-0.09314	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	WERE	'GILL ENERGY CENTER 138KV'	216	-0.00154	-0.09301	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	WERE	'GILL ENERGY CENTER 69KV'	75	-0.00155	-0.093	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	GRDA	'GRDA1 161KV'	190	-0.00154	-0.09301	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	GRDA	'GRDA1 345KV'	220	-0.00154	-0.09301	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	SWPA	'GREERS FERRY 161KV'	93.6	0.00034	-0.09489	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	WERE	'HUTCHINSON ENERGY CENTER 115KV'	345	-0.00129	-0.09326	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	WERE	'HUTCHINSON ENERGY CENTER 69KV'	45	-0.00129	-0.09326	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	LEPA	'IRION SUB 230KV'	25	-0.00126	-0.09329	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	WERE	'JEFFREY ENERGY CENTER 230KV'	476.1294	-0.0012	-0.09335	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	WERE	'JEFFREY ENERGY CENTER 345KV'	960	-0.0012	-0.09335	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	SWPA	'JONESBORO 161KV'	43	0.00002	-0.09475	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	SWPA	'KENNETT 69KV'	7.5	0.00009	-0.09464	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	GRDA	'KERR 115KV'	13.5	-0.00152	-0.09303	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	GRDA	'KERR 161KV'	13.5	-0.00153	-0.09302	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	AEPW	'L&D13 69KV'	11	-0.00072	-0.09383	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	EMDE	'LARUSSEL 161KV'	116	-0.00115	-0.0934	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	WERE	'LAWRENCE ENERGY CENTER 230KV'	231.3038	-0.00118	-0.09337	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	SWPA	'MALDEN 69KV'	7	0.00005	-0.0946	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	AEPW	'MATTISON 161KV'	320	-0.00139	-0.09316	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	OKGE	'MUSKOGEE 161KV'	166	-0.00154	-0.09301	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	SWPA	'OZARK 161KV'	150.6	-0.00043	-0.09412	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	EMDE	'OZARK BEACH 161KV'	16	-0.00083	-0.09372	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	SWPA	'PARAGOULD 69KV'	5.5	0.00015	-0.0947	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	GRDA	'PENSACOLA 161KV'	33	-0.00147	-0.09308	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	GRDA	'PENSACOLA 69KV'	29.80457	-0.00146	-0.09309	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	EMDE	'RIVERTON 161KV'	195.454	-0.00128	-0.09327	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	EMDE	'RIVERTON 69KV'	47.94924	-0.00127	-0.09328	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	SWPA	'ROBERT S. KERR 161KV'	314.8	-0.0009	-0.09365	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	GRDA	'SALINA 161KV'	29.13254	-0.00153	-0.09302	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	SWPA	'SIKESTON 161KV'	235	-0.00003	-0.09452	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	EMDE	'STATE LINE 161KV'	503	-0.00126	-0.09329	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00119	-0.09336	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	SWPA	'TRUMAN 161KV'	102	-0.00087	-0.09368	5

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

AEPW	'KNOXLEE 138KV'	259	-0.09455	WERE	'WACO 138KV'	17.967	-0.00154	-0.09301	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	LEPA	'WATERLOO SUB 230KV'	6	-0.00127	-0.09328	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	SWPA	'WEBBERS FALLS 161KV'	39.2	-0.00143	-0.09312	5
AEPW	'KNOXLEE 138KV'	259	-0.09455	AEPW	'WILKES 345KV'	297.2948	-0.00169	-0.09624	5
AEPW	'LIEBERMAN 138KV'	154	-0.05716	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.09382	5
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.10591	5
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	AEPW	'LIEBERMAN 138KV'	73.99999	-0.05716	-0.08285	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	CELE	'ACADIA 138KV'	88.79679	-0.0025	-0.09205	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	WFEC	'ANADARKO 138KV'	285.9545	-0.00272	-0.09183	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	LEPA	'BAYOU RAMOS 138KV'	29.82497	-0.00181	-0.09274	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	SPS	'BLACKHAWK 115KV'	220	-0.00218	-0.09237	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	GRDA	'BOOMER 69KV'	24	-0.0021	-0.08245	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	SWPA	'BROKEN BOW 138KV'	93.6	-0.00614	-0.08841	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	SPS	'CAPROCK 115KV'	79.98182	-0.00227	-0.09228	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	WERE	'CITY OF WINFIELD 69KV'	26.77	-0.00174	-0.09281	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	AEPW	'COGENTRIX 345KV'	765	-0.00183	-0.09272	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	AEPW	'COMANCHE 138KV'	160	-0.00275	-0.0918	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	AEPW	'COMANCHE 69KV'	63	-0.00276	-0.09179	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	SPS	'CUNNINGHAM 115KV'	170.9048	-0.00229	-0.09226	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	SPS	'CUNNINGHAM 230KV'	306	-0.00229	-0.09226	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	SPS	'CZ 69KV'	39	-0.00221	-0.09234	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	CELE	'D.G. HUNTER POWER STATION 138KV'	84.39839	-0.00286	-0.09169	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	SWPA	'DENISON 138KV'	59.59999	-0.0035	-0.09105	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	CELE	'EVANGELINE 138KV'	138.0374	-0.00271	-0.09184	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	CELE	'EVANGELINE 230KV'	168.5562	-0.00267	-0.09188	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	OKGE	'FPLWND2 34KV'	102	-0.00241	-0.09214	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	LEPA	'FROGSTATION 69KV'	3	-0.00236	-0.09219	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	SPS	'HARRINGTON 230KV'	1066	-0.00217	-0.09238	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	OKGE	'HORSESHOE LAKE 138KV'	511.7124	-0.00255	-0.092	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	OKGE	'HORSESHOE LAKE 69KV'	16	-0.00255	-0.092	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	SPS	'HUBRCO2 69KV'	11	-0.00218	-0.09237	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	WFEC	'HUGO 138KV'	450	-0.00528	-0.08927	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	SPS	'JONES 230KV'	486	-0.00233	-0.09222	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	SWPA	'KEYSTONE DAM 161KV'	150.6	-0.00181	-0.09274	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	SPS	'LP-BRND2 69KV'	20	-0.00233	-0.09222	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	SPS	'LP-MACK2 69KV'	60	-0.00233	-0.09222	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	SPS	'MADOX 115KV'	118	-0.00229	-0.09226	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	OKGE	'MCCLAIN 138KV'	478	-0.00261	-0.09194	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	SPS	'MOORE COUNTY 115KV'	48	-0.00216	-0.09239	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	WFEC	'MORLND 138KV'	312.5645	-0.00241	-0.09214	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	OKGE	'MUSKOGEE 345KV'	1516	-0.00177	-0.09278	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	SPS	'MUSTANG 115KV'	300	-0.0023	-0.09225	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	OKGE	'MUSTANG 138KV'	365.5	-0.00256	-0.09199	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	SPS	'MUSTANG 230KV'	360	-0.00229	-0.09226	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	OKGE	'MUSTANG 69KV'	106	-0.00256	-0.09199	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	AEPW	'NARROWS 69KV'	22	-0.00794	-0.08661	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	CELE	'NATCHITOCHE 69KV'	16.50468	-0.00283	-0.09172	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	SPS	'NICHOLS 115KV'	147	-0.00218	-0.09237	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	SPS	'NICHOLS 230KV'	147	-0.00217	-0.09238	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00166	-0.09289	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00165	-0.0929	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	AEPW	'OEC 345KV'	306	-0.00175	-0.0928	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	OMPA	'OMPA-KAW 69KV'	19.7	-0.00211	-0.09244	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	OMPA	'OMPA-PONCA CITY 69KV'	78.11124	-0.00211	-0.09244	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	OKGE	'ONE OAK 345KV'	136	-0.00248	-0.09207	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	SPS	'PLANTX 115KV'	205	-0.00227	-0.09228	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	SPS	'PLANTX 230KV'	189	-0.00227	-0.09228	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	OKGE	'REDBUD 345KV'	100	-0.00246	-0.09209	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	AEPW	'RIVER SIDE 138KV'	172	-0.00184	-0.09271	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	AEPW	'RIVERSIDE STATION 138KV'	482	-0.00184	-0.09271	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	CELE	'RODEMACHER 230KV'	651	-0.00292	-0.09163	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	SPS	'SAN JUAN 230KV'	119.9727	-0.00228	-0.09227	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	OKGE	'SEMINOLE 138KV'	480.0266	-0.00283	-0.09172	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	OKGE	'SEMINOLE 345KV'	996	-0.00284	-0.09171	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	SPS	'SIDRCH 69KV'	20	-0.00218	-0.09237	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	WFEC	'SLEEPING BEAR 138KV'	80	-0.0024	-0.09215	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	OKGE	'SLEEPING BEAR 34KV'	120	-0.00241	-0.09214	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	OKGE	'SMITH COGEN 138KV'	120	-0.00257	-0.09198	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	OKGE	'SOONER 138KV'	505	-0.00222	-0.09233	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	OKGE	'SOONER 345KV'	513	-0.00231	-0.09224	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	AEPW	'SOUTHWESTERN STATION 138KV'	376	-0.00272	-0.09183	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	SPS	'STEER WATER 115KV'	79.98182	-0.0022	-0.09235	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	CELE	'TECHE 138KV'	212.9806	-0.00216	-0.09239	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	SPS	'TOLK 230KV'	1024.036	-0.00228	-0.09227	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	AEPW	'TULSA POWER STATION 138KV'	152	-0.00181	-0.09274	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	AEPW	'WEATHERFORD 34KV'	148	-0.00255	-0.092	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	AEPW	'WEELETKA 138KV'	84	-0.00236	-0.09219	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	AEPW	'WELSH 345KV'	1044	-0.00774	-0.08681	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	AEPW	'WILKES 138KV'	199.2238	-0.01429	-0.08026	6
AEPW	'KNOXLEE 138KV'	259	-0.09455	SPS	'WILWIND 230KV'	159.9636	-0.00217	-0.09238	6
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.08261	6
AEPW	'EASTMAN 138KV'	330.01	-0.07379	WERE	'ABILENE ENERGY CENTER 115KV'	45	-0.00125	-0.07254	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	CELE	'ACADIA 138KV'	88.79679	-0.0025	-0.07129	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	OKGE	'AES 161KV'	320	-0.00088	-0.07311	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	WFEC	'ANADARKO 138KV'	285.9545	-0.00272	-0.07107	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	EMDE	'ASBURY 161KV'	191	-0.00126	-0.07253	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	LEPA	'BAYOU RAMOS 138KV'	29.82497	-0.00181	-0.07198	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SWPA	'BEAVER 161KV'	142.4147	-0.00113	-0.07266	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SPS	'BLACKHAWK 115KV'	220	-0.00218	-0.07161	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	GRDA	'BOOMER 69KV'	24	-0.0021	-0.07169	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	WERE	'BPU - CITY OF MCPHERSON 115KV'	165	-0.00128	-0.07251	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SWPA	'BULL SHOALS 161KV'	279.4	-0.00042	-0.07337	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SPS	'CAPROCK 115KV'	79.98182	-0.00227	-0.07152	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SWPA	'CARTHAGE 69KV'	32	-0.00119	-0.0726	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	WERE	'CHANUTE 69KV'	55.637	-0.00139	-0.0724	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00152	-0.07227	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	WERE	'CITY OF BURLINGTON 69KV'	34.061	-0.00137	-0.07242	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	WERE	'CITY OF ERIE 69KV'	23.374	-0.00139	-0.0724	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	WERE	'CITY OF FREDONIA 69KV'	3.596	-0.00143	-0.07236	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	WERE	'CITY OF GIRARD 69KV'	4.592	-0.00131	-0.07248	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	LEPA	'CITY OF HOUMA SUB 115KV'	84	-0.00129	-0.0725	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	WERE	'CITY OF IOLA 69KV'	24.471	-0.00135	-0.07244	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	WERE	'CITY OF MULVANE 69KV'	8.29	-0.00154	-0.07225	7

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

AEPW	'EASTMAN 138KV'	330.01	-0.07379	WERE	'CITY OF NEODESHA 69KV'	4.495	-0.00145	-0.07234	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	WERE	'CITY OF WINFIELD 69KV'	26.77	-0.00174	-0.07205	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SWPA	'CLARENCE CANNON DAM 69KV'	39.4	-0.00062	-0.07317	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	-0.00137	-0.07242	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	AEPW	'COGENTRIX 345KV'	765	-0.00183	-0.07196	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	AEPW	'COMANCHE 138KV'	160	-0.00275	-0.07104	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	AEPW	'COMANCHE 69KV'	63	-0.00276	-0.07103	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SPS	'CUNNINGHAM 115KV'	170.9048	-0.00229	-0.0715	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SPS	'CUNNINGHAM 230KV'	306	-0.00229	-0.0715	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SPS	'CZ 69KV'	39	-0.00221	-0.07158	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	CELE	'D.G. HUNTER POWER STATION 138KV'	84.39839	-0.00286	-0.07093	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SWPA	'DENISON 138KV'	59.59999	-0.0035	-0.07029	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	EMDE	'ELK RIVER 345KV'	46	-0.00145	-0.07234	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	WERE	'ELK RIVER WIND 34KV'	100	-0.00145	-0.07234	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SWPA	'EUFAULA 138KV'	51	-0.00152	-0.07227	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SWPA	'EUFAULA 161KV'	69.8	-0.00152	-0.07227	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	CELE	'EVANGELINE 138KV'	138.0374	-0.00271	-0.07108	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	CELE	'EVANGELINE 230KV'	168.5562	-0.00267	-0.07112	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.00155	-0.07224	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	AEPW	'FITZHUGH 161KV'	101	-0.00043	-0.07336	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	AEPW	'FLINT CREEK 161KV'	428	-0.00141	-0.07238	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	OKGE	'FPLWIND2 34KV'	102	-0.00241	-0.07138	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	LEPA	'FROGSTATION 69KV'	3	-0.00236	-0.07143	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	WERE	'GILL ENERGY CENTER 138KV'	216	-0.00154	-0.07225	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	WERE	'GILL ENERGY CENTER 69KV'	75	-0.00155	-0.07224	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	GRDA	'GRDA1 161KV'	190	-0.00154	-0.07225	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	GRDA	'GRDA1 345KV'	220	-0.00154	-0.07225	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SWPA	'GREERS FERRY 161KV'	93.6	0.00034	-0.07413	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SPS	'HARRINGTON 230KV'	1066	-0.00217	-0.07162	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	OKGE	'HORSESHOE LAKE 138KV'	511.7124	-0.00255	-0.07124	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	OKGE	'HORSESHOE LAKE 69KV'	16	-0.00255	-0.07124	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SPS	'HUBRCO2 69KV'	11	-0.00218	-0.07161	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	WFEC	'HUGO 138KV'	450	-0.00528	-0.06851	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	WERE	'HUTCHINSON ENERGY CENTER 115KV'	345	-0.00129	-0.0725	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	WERE	'HUTCHINSON ENERGY CENTER 69KV'	45	-0.00129	-0.0725	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	LEPA	'IRION SUB 230KV'	25	-0.00126	-0.07253	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	WERE	'JEFFREY ENERGY CENTER 230KV'	476.1294	-0.0012	-0.07259	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	WERE	'JEFFREY ENERGY CENTER 345KV'	960	-0.0012	-0.07259	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SPS	'JONES 230KV'	486	-0.00233	-0.07146	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SWPA	'JONESBORO 161KV'	43	0.0002	-0.07399	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SWPA	'KENNETT 69KV'	7.5	0.00009	-0.07388	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	GRDA	'KERR 115KV'	13.5	-0.00152	-0.07227	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	GRDA	'KERR 161KV'	13.5	-0.00153	-0.07226	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SWPA	'KEYSTONE DAM 161KV'	150.6	-0.00181	-0.07198	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	AEPW	'LAD13 69KV'	11	-0.00072	-0.07307	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	EMDE	'LARUSSEL 161KV'	116	-0.00115	-0.07264	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	WERE	'LAWRENCE ENERGY CENTER 230KV'	231.3038	-0.00118	-0.07261	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SPS	'LP-BRND2 69KV'	20	-0.00233	-0.07146	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SPS	'LP-MACK2 69KV'	60	-0.00233	-0.07146	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SPS	'MADOX 115KV'	118	-0.00229	-0.0715	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SWPA	'MALDEN 69KV'	7	0.00005	-0.07384	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	AEPW	'MATTISON 161KV'	320	-0.00139	-0.0724	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	OKGE	'MCCLAIN 138KV'	478	-0.00261	-0.07118	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SPS	'MOORE COUNTY 115KV'	48	-0.00216	-0.07163	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	WFEC	'MORLND 138KV'	312.5645	-0.00241	-0.07138	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	OKGE	'MUSKOGEE 161KV'	166	-0.00154	-0.07225	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	OKGE	'MUSKOGEE 345KV'	1516	-0.00177	-0.07202	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SPS	'MUSTANG 115KV'	300	-0.0023	-0.07149	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	OKGE	'MUSTANG 138KV'	365.5	-0.00256	-0.07123	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SPS	'MUSTANG 230KV'	360	-0.00229	-0.0715	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	OKGE	'MUSTANG 69KV'	106	-0.00256	-0.07123	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	CELE	'NATCHITOCHE 69KV'	16.50468	-0.00283	-0.07096	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SPS	'NICHOLS 115KV'	147	-0.00218	-0.07161	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SPS	'NICHOLS 230KV'	147	-0.00217	-0.07162	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00168	-0.07213	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00165	-0.07214	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	AEPW	'OEC 345KV'	306	-0.00175	-0.07204	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	OMPA	'OMPA-KAW 69KV'	19.7	-0.00211	-0.07168	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	OMPA	'OMPA-PONCA CITY 69KV'	78.11124	-0.00211	-0.07168	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	OKGE	'ONE OAK 345KV'	136	-0.00248	-0.07131	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SWPA	'OZARK 161KV'	150.6	-0.00043	-0.07336	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	EMDE	'OZARK BEACH 161KV'	16	-0.00083	-0.07296	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SWPA	'PARAGOULD 69KV'	5.5	0.00015	-0.07394	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	GRDA	'PENSACOLA 161KV'	33	-0.00147	-0.07232	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	GRDA	'PENSACOLA 69KV'	29.80457	-0.00146	-0.07233	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SPS	'PLANTX 115KV'	205	-0.00227	-0.07152	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SPS	'PLANTX 230KV'	189	-0.00227	-0.07152	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	OKGE	'REDBUD 345KV'	100	-0.00246	-0.07133	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	AEPW	'RIVER SIDE 138KV'	172	-0.00184	-0.07195	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	AEPW	'RIVERSIDE STATION 138KV'	482	-0.00184	-0.07195	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	EMDE	'RIVERTON 161KV'	195.454	-0.00128	-0.07251	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	EMDE	'RIVERTON 69KV'	47.94924	-0.00127	-0.07252	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SWPA	'ROBERT S. KERR 161KV'	314.8	-0.0009	-0.07289	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	CELE	'RODEMACHER 230KV'	651	-0.00292	-0.07087	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	GRDA	'SALINA 161KV'	29.13254	-0.00153	-0.07226	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SPS	'SAN JUAN 230KV'	119.9727	-0.00228	-0.07151	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	OKGE	'SEMINOLE 138KV'	480.0266	-0.00283	-0.07096	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	OKGE	'SEMINOLE 345KV'	996	-0.00284	-0.07095	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SPS	'SIDRCH 69KV'	20	-0.00218	-0.07161	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SWPA	'SKESTON 161KV'	235	-0.00003	-0.07376	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	WFEC	'SLEEPING BEAR 138KV'	80	-0.0024	-0.07139	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	OKGE	'SLEEPING BEAR 34KV'	120	-0.00241	-0.07138	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	OKGE	'SMITH COGEN 138KV'	120	-0.00257	-0.07122	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	OKGE	'SOONER 138KV'	505	-0.00222	-0.07157	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	OKGE	'SOONER 345KV'	513	-0.00231	-0.07148	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	AEPW	'SOUTHWESTERN STATION 138KV'	376	-0.00272	-0.07107	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	EMDE	'STATE LINE 161KV'	503	-0.00126	-0.07253	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SPS	'STEER WATER 115KV'	79.98182	-0.0022	-0.07159	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	CELE	'TECHE 138KV'	212.9806	-0.00216	-0.07163	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00119	-0.0726	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SPS	'TOLK 230KV'	1024.036	-0.00228	-0.07151	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SWPA	'TRUMAN 161KV'	102	-0.00087	-0.07292	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	AEPW	'TULSA POWER STATION 138KV'	152	-0.00181	-0.07198	7

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

AEPW	'EASTMAN 138KV'	330.01	-0.07379	WERE	'WACO 138KV'	17.967	-0.00154	-0.07225	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	LEPA	'WATERLOO SUB 230KV'	6	-0.00127	-0.07252	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	AEPW	'WEATHERFORD 34KV'	148	-0.00255	-0.07124	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SWPA	'WEBBERS FALLS 161KV'	39.2	-0.00143	-0.07236	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	AEPW	'WEELETKA 138KV'	84	-0.00236	-0.07143	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	AEPW	'WILKES 345KV'	297.2948	0.00169	-0.07548	7
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SPS	'WILWIND 230KV'	159.9636	-0.00217	-0.07162	7
AEPW	'LEBROCK 345KV'	382	-0.03252	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.06918	7
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	OKGE	'AES 161KV'	320	-0.00068	-0.06857	7
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SWPA	'BULL SHOALS 161KV'	279.4	-0.00042	-0.06883	7
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SWPA	'CLARENCE CANNON DAM 69KV'	39.4	-0.00062	-0.06863	7
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	AEPW	'FITZHUGH 161KV'	101	-0.00043	-0.06882	7
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SWPA	'GREERS FERRY 161KV'	93.6	0.00034	-0.06959	7
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SWPA	'JONESBORO 161KV'	43	0.0002	-0.06945	7
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SWPA	'KENNETT 69KV'	7.5	0.00009	-0.06934	7
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	AEPW	'LD13 69KV'	11	-0.00072	-0.06853	7
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SWPA	'MALDEN 69KV'	7	0.00005	-0.0693	7
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SWPA	'OZARK 161KV'	150.6	-0.00043	-0.06882	7
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	EMDE	'OZARK BEACH 161KV'	16	-0.00083	-0.06842	7
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SWPA	'PARAGOULD 69KV'	5.5	0.00015	-0.0694	7
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SWPA	'ROBERT S. KERR 161KV'	314.8	-0.0009	-0.06835	7
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SWPA	'SIKESTON 161KV'	235	-0.00003	-0.06922	7
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SWPA	'TRUMAN 161KV'	102	-0.00087	-0.06838	7
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	AEPW	'WILKES 345KV'	297.2948	0.00169	-0.07094	7
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	AEPW	'EASTMAN 138KV'	155	-0.07379	-0.06622	8
AEPW	'EASTMAN 138KV'	330.01	-0.07379	SWPA	'BROKEN BOW 138KV'	93.6	-0.00614	-0.06765	8
AEPW	'EASTMAN 138KV'	330.01	-0.07379	AEPW	'NARROWS 69KV'	22	-0.00794	-0.06585	8
AEPW	'EASTMAN 138KV'	330.01	-0.07379	AEPW	'WELSH 345KV'	1044	-0.00774	-0.06605	8
AEPW	'KNOXLEE 138KV'	259	-0.09455	AEPW	'LEBROCK 345KV'	315	-0.03252	-0.06203	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	WERE	'ABILENE ENERGY CENTER 115KV'	45	-0.00125	-0.068	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	CELE	'ACADIA 138KV'	88.79679	-0.0025	-0.06675	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	WFEC	'ANADARKO 138KV'	285.9545	-0.00272	-0.06653	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	EMDE	'ASBURY 161KV'	191	-0.00126	-0.06799	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	LEPA	'BAYOU RAMOS 138KV'	29.82497	-0.00181	-0.06744	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SWPA	'BEAVER 161KV'	142.4147	-0.00113	-0.06812	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SPS	'BLACKHAWK 115KV'	220	-0.00218	-0.06707	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	GRDA	'BOOMER 69KV'	24	-0.0021	-0.06715	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	WERE	'BPU - CITY OF MCPHERSON 115KV'	165	-0.00128	-0.06797	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SWPA	'BROKEN BOW 138KV'	93.6	-0.00614	-0.06311	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SPS	'CAPROCK 115KV'	79.98182	-0.00227	-0.06698	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SWPA	'CARTHAGE 69KV'	32	-0.00119	-0.06806	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	WERE	'CHANUTE 69KV'	55.637	-0.00139	-0.06786	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00152	-0.06773	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	WERE	'CITY OF BURLINGTON 69KV'	34.061	-0.00137	-0.06788	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	WERE	'CITY OF ERIE 69KV'	23.374	-0.00139	-0.06786	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	WERE	'CITY OF FREDONIA 69KV'	3.596	-0.00143	-0.06782	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	WERE	'CITY OF GIRARD 69KV'	4.592	-0.00131	-0.06794	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	LEPA	'CITY OF HOUMA SUB 115KV'	84	-0.00129	-0.06796	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	WERE	'CITY OF IOLA 69KV'	24.471	-0.00135	-0.0679	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	WERE	'CITY OF MULVANE 69KV'	8.29	-0.00154	-0.06771	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	WERE	'CITY OF NEODESHA 69KV'	4.495	-0.00145	-0.0678	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	WERE	'CITY OF WINFIELD 69KV'	26.77	-0.00174	-0.06751	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	-0.00137	-0.06788	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	AEPW	'COGENTRIX 345KV'	765	-0.00183	-0.06742	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	AEPW	'COMANCHE 138KV'	160	-0.00275	-0.0665	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	AEPW	'COMANCHE 69KV'	63	-0.00276	-0.06649	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SPS	'CUNNINGHAM 115KV'	170.9048	-0.00229	-0.06696	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SPS	'CUNNINGHAM 230KV'	306	-0.00229	-0.06696	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SPS	'CZ 69KV'	39	-0.00221	-0.06704	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	CELE	'D.G. HUNTER POWER STATION 138KV'	84.39839	-0.00286	-0.06639	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SWPA	'DENISON 138KV'	59.59999	-0.0035	-0.06575	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	EMDE	'ELK RIVER 345KV'	46	-0.00145	-0.0678	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	WERE	'ELK RIVER WIND 34KV'	100	-0.00145	-0.0678	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SWPA	'EUFAULA 138KV'	51	-0.00152	-0.06773	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SWPA	'EUFAULA 161KV'	69.8	-0.00152	-0.06773	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	CELE	'EVANGELINE 138KV'	138.0374	-0.00271	-0.06654	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	CELE	'EVANGELINE 230KV'	168.5562	-0.00267	-0.06658	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.00155	-0.0677	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	AEPW	'FLINT CREEK 161KV'	428	-0.00141	-0.06784	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	OKGE	'FPLWIND2 34KV'	102	-0.00241	-0.06684	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	LEPA	'FROGSTATION 69KV'	3	-0.00236	-0.06689	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	WERE	'GILL ENERGY CENTER 138KV'	216	-0.00154	-0.06771	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	WERE	'GILL ENERGY CENTER 69KV'	75	-0.00155	-0.0677	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	GRDA	'GRDA1 161KV'	190	-0.00154	-0.06771	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	GRDA	'GRDA1 345KV'	220	-0.00154	-0.06771	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SPS	'HARRINGTON 230KV'	1066	-0.00217	-0.06708	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	OKGE	'HORSESHOE LAKE 138KV'	511.7124	-0.00255	-0.0667	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	OKGE	'HORSESHOE LAKE 69KV'	16	-0.00255	-0.0667	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SPS	'HUBRCO2 69KV'	11	-0.00218	-0.06707	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	WFEC	'HUGO 138KV'	450	-0.00528	-0.06397	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	WERE	'HUTCHINSON ENERGY CENTER 115KV'	345	-0.00129	-0.06796	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	WERE	'HUTCHINSON ENERGY CENTER 69KV'	45	-0.00129	-0.06796	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	LEPA	'IRION SUB 230KV'	25	-0.00126	-0.06799	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	WERE	'JEFFREY ENERGY CENTER 230KV'	476.1294	-0.0012	-0.06805	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	WERE	'JEFFREY ENERGY CENTER 345KV'	960	-0.0012	-0.06805	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SPS	'JONES 230KV'	486	-0.00233	-0.06692	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	GRDA	'KERR 115KV'	13.5	-0.00152	-0.06773	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	GRDA	'KERR 161KV'	13.5	-0.00153	-0.06772	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SWPA	'KEYSTONE DAM 161KV'	150.6	-0.00181	-0.06744	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	EMDE	'LARUSSEL 161KV'	116	-0.00115	-0.0681	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	WERE	'LAWRENCE ENERGY CENTER 230KV'	231.3038	-0.00118	-0.06807	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SPS	'LP-BRND2 69KV'	20	-0.00233	-0.06692	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SPS	'LP-MACK2 69KV'	60	-0.00233	-0.06692	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SPS	'MADOX 115KV'	118	-0.00229	-0.06696	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	AEPW	'MATTISON 161KV'	320	-0.00139	-0.06786	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	OKGE	'MCCLAIN 138KV'	478	-0.00261	-0.06664	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SPS	'MOORE COUNTY 115KV'	48	-0.00216	-0.06709	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	WFEC	'MORLAND 138KV'	312.5645	-0.00241	-0.06684	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	OKGE	'MUSKOGEE 161KV'	166	-0.00154	-0.06771	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	OKGE	'MUSKOGEE 345KV'	1516	-0.00177	-0.06748	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SPS	'MUSTANG 115KV'	300	-0.0023	-0.06695	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	OKGE	'MUSTANG 138KV'	365.5	-0.00256	-0.06669	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SPS	'MUSTANG 230KV'	360	-0.00229	-0.06696	8

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

AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	OKGE	'MUSTANG 69KV'	106	-0.00256	-0.06669	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	AEPW	'NARROWS 69KV'	22	-0.00794	-0.06131	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	CELE	'NATCHITOCHES 69KV'	16,50468	-0.00283	-0.06642	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SPS	'NICHOLS 115KV'	147	-0.00218	-0.06707	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SPS	'NICHOLS 230KV'	147	-0.00217	-0.06708	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00166	-0.06759	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00165	-0.0676	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	AEPW	'OEC 345KV'	306	-0.00175	-0.0675	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	OMPA	'OMPA-KAW 69KV'	19.7	-0.00211	-0.06714	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	OMPA	'OMPA-PONCA CITY 69KV'	78.1124	-0.00211	-0.06714	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	OKGE	'ONE OAK 345KV'	136	-0.00248	-0.06677	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	GRDA	'PENSACOLA 161KV'	33	-0.00147	-0.06778	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	GRDA	'PENSACOLA 69KV'	29,80457	-0.00146	-0.06779	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SPS	'PLANTX 115KV'	205	-0.00227	-0.06698	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SPS	'PLANTX 230KV'	189	-0.00227	-0.06698	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	OKGE	'REDBUD 345KV'	100	-0.00246	-0.06679	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	AEPW	'RIVER SIDE 138KV'	172	-0.00184	-0.06741	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	AEPW	'RIVERSIDE STATION 138KV'	482	-0.00184	-0.06741	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	EMDE	'RIVERTON 161KV'	195.454	-0.00128	-0.06797	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	EMDE	'RIVERTON 69KV'	47,94924	-0.00127	-0.06798	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	CELE	'RODEMACHER 230KV'	651	-0.00292	-0.06633	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	GRDA	'SALINA 161KV'	29,13254	-0.00153	-0.06772	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SPS	'SAN JUAN 230KV'	119,9727	-0.00228	-0.06697	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	OKGE	'SEMINOLE 138KV'	480,0266	-0.00283	-0.06642	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	OKGE	'SEMINOLE 345KV'	996	-0.00284	-0.06641	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SPS	'SIDRCH 69KV'	20	-0.00218	-0.06707	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	WFEC	'SLEEPING BEAR 138KV'	80	-0.0024	-0.06685	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	OKGE	'SLEEPING BEAR 34KV'	120	-0.00241	-0.06684	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	OKGE	'SMITH COGEN 138KV'	120	-0.00257	-0.06668	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	OKGE	'SOONER 138KV'	505	-0.00222	-0.06703	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	OKGE	'SOONER 345KV'	513	-0.00231	-0.06694	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	AEPW	'SOUTHWESTERN STATION 138KV'	376	-0.00272	-0.06653	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	EMDE	'STATE LINE 161KV'	503	-0.00126	-0.06799	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SPS	'STEER WATER 115KV'	79,98182	-0.0022	-0.06705	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	CELE	'TECHE 138KV'	212,9806	-0.00216	-0.06709	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00119	-0.06806	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SPS	'TOLK 230KV'	1024,036	-0.00228	-0.06697	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	AEPW	'TULSA POWER STATION 138KV'	152	-0.00181	-0.06744	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	WERE	'WACO 138KV'	17,967	-0.00154	-0.06771	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	LEPA	'WATERLOO SUB 230KV'	6	-0.00127	-0.06798	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	AEPW	'WEATHERFORD 34KV'	148	-0.00255	-0.0667	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SWPA	'WEBBERS FALLS 161KV'	39.2	-0.00143	-0.06782	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	AEPW	'WELLETKA 138KV'	84	-0.00236	-0.06689	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	AEPW	'WELSH 345KV'	1044	-0.00774	-0.06151	8
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	SPS	'WILWIND 230KV'	159,9636	-0.00217	-0.06708	8
AEPW	'EASTMAN 138KV'	330.01	-0.07379	AEPW	'WILKES 138KV'	199,2238	-0.01429	-0.0595	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	WERE	'ABILENE ENERGY CENTER 115KV'	45	-0.00125	-0.05591	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	CELE	'ACADIA 138KV'	88,79679	-0.0025	-0.05466	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	OKGE	'AES 161KV'	320	-0.00068	-0.05648	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	WFEC	'ANADARKO 138KV'	285,9545	-0.00272	-0.05444	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	EMDE	'ASBURY 161KV'	191	-0.00126	-0.05559	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	LEPA	'BAYOU RAMOS 138KV'	29,82497	-0.00181	-0.05535	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SWPA	'BEAVER 161KV'	142,4147	-0.00113	-0.05603	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SPS	'BLACKHAWK 115KV'	220	-0.00218	-0.05498	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	GRDA	'BOOMER 69KV'	24	-0.0021	-0.05506	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	WERE	'BPU - CITY OF MCPHERSON 115KV'	165	-0.00128	-0.05588	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SWPA	'BULL SHOALS 161KV'	279.4	-0.00042	-0.05674	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SPS	'CAPROCK 115KV'	79,98182	-0.00227	-0.05489	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SWPA	'CARTHAGE 69KV'	32	-0.00119	-0.05597	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	WERE	'CHANUTE 69KV'	55,637	-0.00139	-0.05577	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00152	-0.05564	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	WERE	'CITY OF BURLINGTON 69KV'	34,061	-0.00137	-0.05579	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	WERE	'CITY OF ERIE 69KV'	23,374	-0.00139	-0.05577	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	WERE	'CITY OF FREDONIA 69KV'	3,596	-0.00143	-0.05573	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	WERE	'CITY OF GIRARD 69KV'	4,592	-0.00131	-0.05585	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	LEPA	'CITY OF HOUMA SUB 115KV'	84	-0.00129	-0.05587	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	WERE	'CITY OF IOLA 69KV'	24,471	-0.00135	-0.05581	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	WERE	'CITY OF MULVANE 69KV'	8.29	-0.00154	-0.05562	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	WERE	'CITY OF NEODESHA 69KV'	4,495	-0.00145	-0.05571	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	WERE	'CITY OF WINFIELD 69KV'	26,77	-0.00174	-0.05542	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SWPA	'CLARENCE CANNON DAM 69KV'	39.4	-0.00062	-0.05654	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	-0.00137	-0.05579	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	AEPW	'COGENTRIX 345KV'	765	-0.00183	-0.05533	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	AEPW	'COMANCHE 138KV'	160	-0.00275	-0.05441	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	AEPW	'COMANCHE 69KV'	63	-0.00276	-0.0544	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SPS	'CUNNINGHAM 115KV'	170,9048	-0.00229	-0.05487	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SPS	'CUNNINGHAM 230KV'	306	-0.00229	-0.05487	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SPS	'CZ 69KV'	39	-0.00221	-0.05495	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	CELE	'D.G. HUNTER POWER STATION 138KV'	84,39839	-0.00286	-0.0543	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	EMDE	'ELK RIVER 345KV'	46	-0.00145	-0.05571	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	WERE	'ELK RIVER WIND 34KV'	100	-0.00145	-0.05571	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SWPA	'EUFAULA 138KV'	51	-0.00152	-0.05564	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SWPA	'EUFAULA 161KV'	69.8	-0.00152	-0.05564	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	CELE	'EVANGELINE 138KV'	138,0374	-0.00271	-0.05445	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	CELE	'EVANGELINE 230KV'	168,5562	-0.00267	-0.05449	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.00155	-0.05581	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	AEPW	'FITZHUGH 161KV'	101	-0.00043	-0.05673	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	AEPW	'FLINT CREEK 161KV'	428	-0.00141	-0.05575	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	OKGE	'FPLWIND2 34KV'	102	-0.00241	-0.05475	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	LEPA	'FROGSTATION 69KV'	3	-0.00236	-0.0548	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	WERE	'GILL ENERGY CENTER 138KV'	216	-0.00154	-0.05562	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	WERE	'GILL ENERGY CENTER 69KV'	75	-0.00155	-0.05561	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	GRDA	'GRDA1 161KV'	190	-0.00154	-0.05562	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	GRDA	'GRDA1 345KV'	220	-0.00154	-0.05562	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SWPA	'GREERS FERRY 161KV'	93.6	0.00034	-0.0575	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SPS	'HARRINGTON 230KV'	1066	-0.00217	-0.05499	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	OKGE	'HORSESHOE LAKE 138KV'	511,7124	-0.00255	-0.05461	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	OKGE	'HORSESHOE LAKE 69KV'	16	-0.00255	-0.05461	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SPS	'HUBRCO2 69KV'	11	-0.00218	-0.05498	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	WERE	'HUTCHINSON ENERGY CENTER 115KV'	345	-0.00129	-0.05587	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	WERE	'HUTCHINSON ENERGY CENTER 69KV'	45	-0.00129	-0.05587	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	LEPA	'IRION SUB 230KV'	25	-0.00126	-0.0559	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	WERE	'JEFFREY ENERGY CENTER 230KV'	476,1294	-0.0012	-0.05596	9

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

AEPW	'LIEBERMAN 138KV'	154	-0.05716	WERE	'JEFFREY ENERGY CENTER 345KV'	960	-0.0012	-0.05596	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SPS	'JONES 230KV'	486	-0.00233	-0.05483	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SWPA	'JONESBORO 161KV'	43	0.0002	-0.05736	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SWPA	'KENNETT 69KV'	7.5	0.00009	-0.05725	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	GRDA	'KERR 115KV'	13.5	-0.00152	-0.05564	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	GRDA	'KERR 161KV'	13.5	-0.00153	-0.05563	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SWPA	'KEYSTONE DAM 161KV'	150.6	-0.00181	-0.05535	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	AEPW	'L&D13 69KV'	11	-0.00072	-0.05644	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	EMDE	'LARUSSEL 161KV'	116	-0.00115	-0.05601	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	WERE	'LAWRENCE ENERGY CENTER 230KV'	231.3038	-0.00118	-0.05598	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SPS	'LP-BRND2 69KV'	20	-0.00233	-0.05483	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SPS	'LP-MACK2 69KV'	60	-0.00233	-0.05483	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SPS	'MADOX 115KV'	118	-0.00229	-0.05487	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SWPA	'MALDEN 69KV'	7	0.00005	-0.05721	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	AEPW	'MATTISON 161KV'	320	-0.00139	-0.05577	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	OKGE	'MCCLAIN 138KV'	478	-0.00261	-0.05455	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SPS	'MOORE COUNTY 115KV'	48	-0.00216	-0.055	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	WFEC	'MORLND 138KV'	312.5645	-0.00241	-0.05475	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	OKGE	'MUSKOGEE 161KV'	166	-0.00154	-0.05562	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	OKGE	'MUSKOGEE 345KV'	1516	-0.00177	-0.05539	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SPS	'MUSTANG 115KV'	300	-0.00223	-0.05486	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	OKGE	'MUSTANG 138KV'	365.5	-0.00256	-0.0546	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SPS	'MUSTANG 230KV'	360	-0.00229	-0.05487	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	OKGE	'MUSTANG 69KV'	106	-0.00256	-0.0546	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	CELE	'NATCHITOCHE 69KV'	16.50468	-0.00283	-0.05433	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SPS	'NICHOLS 115KV'	147	-0.00218	-0.05498	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SPS	'NICHOLS 230KV'	147	-0.00217	-0.05499	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00166	-0.0555	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00165	-0.05551	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	AEPW	'OEC 345KV'	306	-0.00175	-0.05541	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	OMPA	'OMPA-KAW 69KV'	19.7	-0.00211	-0.05505	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	OMPA	'OMPA-PONCA CITY 69KV'	78.11124	-0.00211	-0.05505	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	OKGE	'ONE OAK 345KV'	136	-0.00248	-0.05468	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SWPA	'OZARK 161KV'	150.6	-0.00043	-0.05673	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	EMDE	'OZARK BEACH 161KV'	16	-0.00083	-0.05633	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SWPA	'PARAGOULD 69KV'	5.5	0.00015	-0.05731	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	GRDA	'PENSACOLA 161KV'	33	-0.00147	-0.05569	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	GRDA	'PENSACOLA 69KV'	29.80457	-0.00146	-0.0557	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SPS	'PLANTX 115KV'	205	-0.00227	-0.05489	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SPS	'PLANTX 230KV'	189	-0.00227	-0.05489	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	OKGE	'REDBUD 345KV'	100	-0.00246	-0.0547	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	AEPW	'RIVER SIDE 138KV'	172	-0.00184	-0.05532	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	AEPW	'RIVERSIDE STATION 138KV'	482	-0.00184	-0.05532	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	EMDE	'RIVERTON 161KV'	195.454	-0.00128	-0.05588	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	EMDE	'RIVERTON 69KV'	47.94924	-0.00127	-0.05589	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SWPA	'ROBERT S. KERR 161KV'	314.8	-0.0009	-0.05626	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	CELE	'RODEMACHER 230KV'	651	-0.00292	-0.05424	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	GRDA	'SALINA 161KV'	29.13254	-0.00153	-0.05563	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SPS	'SAN JUAN 230KV'	119.9727	-0.00228	-0.05488	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	OKGE	'SEMINOLE 138KV'	480.0266	-0.00283	-0.05433	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	OKGE	'SEMINOLE 345KV'	996	-0.00284	-0.05432	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SPS	'SIDRCH 69KV'	20	-0.00218	-0.05498	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SWPA	'SKESTON 161KV'	235	-0.00003	-0.05713	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	WFEC	'SLEEPING BEAR 138KV'	80	-0.0024	-0.05476	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	OKGE	'SLEEPING BEAR 34KV'	120	-0.00241	-0.05475	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	OKGE	'SMITH COGEN 138KV'	120	-0.00257	-0.05459	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	OKGE	'SOONER 138KV'	505	-0.00222	-0.05494	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	OKGE	'SOONER 345KV'	513	-0.00231	-0.05485	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	AEPW	'SOUTHWESTERN STATION 138KV'	376	-0.00272	-0.05444	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	EMDE	'STATE LINE 161KV'	503	-0.00126	-0.0559	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SPS	'STEER WATER 115KV'	79.98182	-0.0022	-0.05496	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	CELE	'TECHE 138KV'	212.9806	-0.00216	-0.055	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00119	-0.05597	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SPS	'TOLK 230KV'	1024.036	-0.00228	-0.05488	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SWPA	'TRUMAN 161KV'	102	-0.00087	-0.05629	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	AEPW	'TULSA POWER STATION 138KV'	152	-0.00181	-0.05535	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	WERE	'WACO 138KV'	17.967	-0.00154	-0.05562	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	LEPA	'WATERLOO SUB 230KV'	6	-0.00127	-0.05589	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	AEPW	'WEATHERFORD 34KV'	148	-0.00255	-0.05461	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SWPA	'WEBBERS FALLS 161KV'	39.2	-0.00143	-0.05573	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	AEPW	'WEELETKA 138KV'	84	-0.00236	-0.0548	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	AEPW	'WILKES 345KV'	297.2948	0.00169	-0.05885	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SPS	'WILWIND 230KV'	159.9636	-0.00217	-0.05499	9
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.02014	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.0568	9
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	AEPW	'WILKES 138KV'	199.2238	-0.01429	-0.05496	9
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SWPA	'BROKEN BOW 138KV'	93.6	-0.00614	-0.05102	10
AEPW	'LIEBERMAN 138KV'	154	-0.05716	SWPA	'DENISON 138KV'	59.59999	-0.0035	-0.05366	10
AEPW	'LIEBERMAN 138KV'	154	-0.05716	WFEC	'HUGO 138KV'	450	-0.00528	-0.05188	10
AEPW	'LIEBERMAN 138KV'	154	-0.05716	AEPW	'NARROWS 69KV'	22	-0.00794	-0.04922	10
AEPW	'LIEBERMAN 138KV'	154	-0.05716	AEPW	'WELSH 345KV'	1044	-0.00774	-0.04942	10
AEPW	'WILKES 138KV'	263.7762	-0.01429	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.05095	10
AEPW	'ARSENAL HILL 69KV'	99	-0.14001	AEPW	'KNOXLEE 138KV'	164	-0.09455	-0.04546	11
AEPW	'KNOXLEE 138KV'	259	-0.09455	AEPW	'PIRKEY GENERATION 138KV'	490	-0.04595	-0.0486	11
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	WERE	'ABILENE ENERGY CENTER 115KV'	45	-0.00125	-0.0447	11
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	OKGE	'AES 161KV'	320	-0.00068	-0.04527	11
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	EMDE	'ASBURY 161KV'	191	-0.00126	-0.04469	11
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	SWPA	'BEAVER 161KV'	142.4147	-0.00113	-0.04482	11
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	WERE	'BPU - CITY OF MCPHERSON 115KV'	165	-0.00128	-0.04467	11
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	SWPA	'BULL SHOALS 161KV'	279.4	-0.00042	-0.04553	11
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	SWPA	'CARTHAGE 69KV'	32	-0.00119	-0.04476	11
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	WERE	'CHANUTE 69KV'	55.637	-0.00139	-0.04456	11
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	WERE	'CITY OF BURLINGTON 69KV'	34.061	-0.00137	-0.04458	11
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	WERE	'CITY OF ERIE 69KV'	23.374	-0.00139	-0.04456	11
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	WERE	'CITY OF GIRARD 69KV'	4.592	-0.00131	-0.04464	11
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	LEPA	'CITY OF HOUMA SUB 115KV'	84	-0.00129	-0.04466	11
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	WERE	'CITY OF IOLA 69KV'	24.471	-0.00135	-0.0446	11
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	WERE	'CITY OF NEODESHA 69KV'	4.495	-0.00145	-0.0445	11
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	SWPA	'CLARENCE CANNON DAM 69KV'	39.4	-0.00062	-0.04533	11
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	-0.00137	-0.04458	11
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	EMDE	'ELK RIVER 345KV'	46	-0.00145	-0.0445	11
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	WERE	'ELK RIVER WIND 34KV'	100	-0.00145	-0.0445	11
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	AEPW	'FITZHUGH 161KV'	101	-0.00043	-0.04552	11
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	AEPW	'FLINT CREEK 161KV'	428	-0.00141	-0.04454	11

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

AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SWPA	'GREERS FERRY 161KV'	93.6	0.00034	-0.04629	11
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	WERE	'HUTCHINSON ENERGY CENTER 115KV'	345	-0.00129	-0.04466	11
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	WERE	'HUTCHINSON ENERGY CENTER 69KV'	45	-0.00129	-0.04466	11
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	LEPA	'IRION SUB 230KV'	25	-0.00126	-0.04469	11
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	WERE	'JEFFREY ENERGY CENTER 230KV'	476.1294	-0.0012	-0.04475	11
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	WERE	'JEFFREY ENERGY CENTER 345KV'	960	-0.0012	-0.04475	11
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SWPA	'JONESBORO 161KV'	43	0.0002	-0.04615	11
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SWPA	'KENNETT 69KV'	7.5	0.00009	-0.04604	11
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	AEPW	'LD13 69KV'	11	-0.00072	-0.04523	11
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	EMDE	'LARUSSEL 161KV'	116	-0.00115	-0.0448	11
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	WERE	'LAWRENCE ENERGY CENTER 230KV'	231.3038	-0.00118	-0.04477	11
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SWPA	'MALDEN 69KV'	7	0.00005	-0.046	11
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	AEPW	'MATTISON 161KV'	320	-0.00139	-0.04456	11
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SWPA	'OZARK 161KV'	150.6	-0.00043	-0.04552	11
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	EMDE	'OZARK BEACH 161KV'	16	-0.00083	-0.04512	11
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SWPA	'PARAGOULD 69KV'	5.5	0.00015	-0.0461	11
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	GRDA	'PENSACOLA 161KV'	33	-0.00147	-0.04448	11
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	GRDA	'PENSACOLA 69KV'	29.80457	-0.00146	-0.04449	11
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	EMDE	'RIVERTON 161KV'	195.454	-0.00128	-0.04467	11
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	EMDE	'RIVERTON 69KV'	47.94924	-0.00127	-0.04468	11
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SWPA	'ROBERT S. KERR 161KV'	314.8	-0.0009	-0.04505	11
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SWPA	'SIKESTON 161KV'	235	-0.00003	-0.04592	11
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	EMDE	'STATE LINE 161KV'	503	-0.00126	-0.04469	11
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00119	-0.04476	11
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SWPA	'TRUMAN 161KV'	102	-0.00087	-0.04508	11
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	LEPA	'WATERLOO SUB 230KV'	6	-0.00127	-0.04468	11
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SWPA	'WEBBERS FALLS 161KV'	39.2	-0.00143	-0.04452	11
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	AEPW	'WILKES 345KV'	297.2948	0.00169	-0.04764	11
AEPW	'TURK 138KV'	608	-0.00834	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.045	11
SWPA	'BROKEN BOW 138KV'	16.4	-0.00614	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.0428	12
AEPW	'EASTMAN 138KV'	330.01	-0.07379	AEPW	'LEBROCK 345KV'	315	-0.02352	-0.04127	12
AEPW	'FULTON 115KV'	32.99999	-0.0062	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.04286	12
AEPW	'LIEBERMAN 138KV'	154	-0.05716	AEPW	'WILKES 138KV'	199.2238	-0.01429	-0.04287	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	CELE	'ACADIA 138KV'	88.79679	-0.0025	-0.04345	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	WFEC	'ANADARKO 138KV'	285.9545	-0.00272	-0.04323	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	LEPA	'BAYOU RAMOS 138KV'	29.82497	-0.00181	-0.04414	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SPS	'BLACKHAWK 115KV'	220	-0.00218	-0.04377	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	GRDA	'BOOMER 69KV'	24	-0.0021	-0.04385	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SPS	'CAPROCK 115KV'	79.98182	-0.00227	-0.04368	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00152	-0.04443	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	WERE	'CITY OF MULVANE 69KV'	8.29	-0.00154	-0.04441	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	WERE	'CITY OF WINFIELD 69KV'	26.77	-0.00174	-0.04421	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	AEPW	'COGENTRIX 345KV'	765	-0.00183	-0.04412	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	AEPW	'COMANCHE 138KV'	160	-0.00275	-0.0432	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	AEPW	'COMANCHE 69KV'	63	-0.00276	-0.04319	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SPS	'CUNNINGHAM 115KV'	170.9048	-0.00229	-0.04366	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SPS	'CUNNINGHAM 230KV'	306	-0.00229	-0.04366	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SPS	'CZ 69KV'	39	-0.00221	-0.04374	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	CELE	'D.G. HUNTER POWER STATION 138KV'	84.39839	-0.00286	-0.04309	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SWPA	'DENISON 138KV'	59.59999	-0.0035	-0.04245	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SWPA	'EUFAULA 138KV'	51	-0.00152	-0.04443	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SWPA	'EUFAULA 161KV'	69.8	-0.00152	-0.04443	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	CELE	'EVANGELINE 138KV'	138.0374	-0.00271	-0.04324	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	CELE	'EVANGELINE 230KV'	168.5562	-0.00267	-0.04328	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.00155	-0.0444	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	OKGE	'FPLWIND2 34KV'	102	-0.00241	-0.04354	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	WERE	'GILL ENERGY CENTER 138KV'	216	-0.00154	-0.04441	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	WERE	'GILL ENERGY CENTER 69KV'	75	-0.00155	-0.0444	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	GRDA	'GRDA1 161KV'	190	-0.00154	-0.04441	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	GRDA	'GRDA1 345KV'	220	-0.00154	-0.04441	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SPS	'HARRINGTON 230KV'	1066	-0.00217	-0.04378	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	OKGE	'HORSESHOE LAKE 138KV'	511.7124	-0.00255	-0.0434	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	OKGE	'HORSESHOE LAKE 69KV'	16	-0.00255	-0.0434	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SPS	'HUBCOO2 69KV'	11	-0.00218	-0.04377	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SPS	'JONES 230KV'	486	-0.00233	-0.04362	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	GRDA	'KERR 115KV'	13.5	-0.00152	-0.04443	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	GRDA	'KERR 161KV'	13.5	-0.00153	-0.04442	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SWPA	'KEYSTONE DAM 161KV'	150.6	-0.00181	-0.04414	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SPS	'LP-BRND2 69KV'	20	-0.00233	-0.04362	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SPS	'LP-MACK2 69KV'	60	-0.00233	-0.04362	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SPS	'MADOX 115KV'	118	-0.00229	-0.04366	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	OKGE	'MCCLAIN 138KV'	478	-0.00261	-0.04334	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SPS	'MOORE COUNTY 115KV'	48	-0.00216	-0.04379	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	WFEC	'MORLND 138KV'	312.5645	-0.00241	-0.04354	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	OKGE	'MUSKOGEE 161KV'	166	-0.00154	-0.04441	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	OKGE	'MUSKOGEE 345KV'	1516	-0.00177	-0.04418	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SPS	'MUSTANG 115KV'	300	-0.0023	-0.04365	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	OKGE	'MUSTANG 138KV'	365.5	-0.00256	-0.04339	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SPS	'MUSTANG 230KV'	360	-0.00229	-0.04366	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	OKGE	'MUSTANG 69KV'	106	-0.00256	-0.04339	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	CELE	'NATCHITOCHES 69KV'	16.50468	-0.00283	-0.04312	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SPS	'NICHOLS 115KV'	147	-0.00218	-0.04377	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SPS	'NICHOLS 230KV'	147	-0.00217	-0.04378	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00166	-0.04429	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00165	-0.0443	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	AEPW	'OEC 345KV'	306	-0.00175	-0.0442	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	OMPA	'OMPA-KAW 69KV'	19.7	-0.00211	-0.04384	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	OMPA	'OMPA-PONCA CITY 69KV'	78.11124	-0.00211	-0.04384	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	OKGE	'ONE OAK 345KV'	136	-0.00248	-0.04347	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SPS	'PLANTX 115KV'	205	-0.00227	-0.04368	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SPS	'PLANTX 230KV'	189	-0.00227	-0.04368	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	OKGE	'REDBUD 345KV'	100	-0.00246	-0.04349	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	AEPW	'RIVER SIDE 138KV'	172	-0.00184	-0.04411	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	AEPW	'RIVERSIDE STATION 138KV'	482	-0.00184	-0.04411	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	CELE	'RODEMACHER 230KV'	651	-0.00292	-0.04303	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	GRDA	'SALINA 161KV'	29.13254	-0.00153	-0.04442	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SPS	'SAN JUAN 230KV'	119.9727	-0.00228	-0.04367	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	OKGE	'SEMINOLE 138KV'	480.0266	-0.00283	-0.04312	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	OKGE	'SEMINOLE 345KV'	996	-0.00284	-0.04311	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	SPS	'SIDRCH 69KV'	20	-0.00218	-0.04377	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	WFEC	'SLEEPING BEAR 138KV'	80	-0.0024	-0.04355	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	OKGE	'SLEEPING BEAR 34KV'	120	-0.00241	-0.04354	12
AEPW	PIRKEY GENERATION 138KV	25	-0.04595	OKGE	'SMITH COGEN 138KV'	120	-0.00257	-0.04338	12

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

AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	OKGE	'SOONER 138KV'	505	-0.00222	-0.04373	12
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	OKGE	'SOONER 345KV'	513	-0.00231	-0.04364	12
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	AEPW	'SOUTHWESTERN STATION 138KV'	376	-0.00272	-0.04323	12
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	SPS	'STEER WATER 115KV'	79.98182	-0.0022	-0.04375	12
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	CELE	'TECHE 138KV'	212.9806	-0.00216	-0.04379	12
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	SPS	'TOLK 230KV'	1024.036	-0.00228	-0.04367	12
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	AEPW	'TULSA POWER STATION 138KV'	152	-0.00181	-0.04414	12
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	WERE	'WACO 138KV'	17.967	-0.00154	-0.04441	12
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	AEPW	'WEATHERFORD 34KV'	148	-0.00255	-0.0434	12
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	AEPW	'WELEETKA 138KV'	84	-0.00236	-0.04359	12
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	SPS	'WILWIND 230KV'	159.9636	-0.00217	-0.04378	12
CELE	'ACADIA 138KV'	1093.203	-0.0025	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03916	13
WFEC	'ANADARKO 138KV'	136	-0.00272	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03938	13
WFEC	'ANADARKO 69KV'	76	-0.00271	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03937	13
EMDE	'ASBURY 161KV'	20	-0.00126	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03792	13
LEPA	'BAYOU RAMOS 138KV'	24.17503	-0.00181	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03847	13
WFEC	'BLUE CANYON 138KV'	151.2	-0.00271	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03937	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	9.000002	-0.00128	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03794	13
SPS	'CARLSBAD 69KV'	18	-0.00229	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03895	13
WERE	'CHANUTE 69KV'	32.163	-0.00139	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03805	13
WERE	'CITY OF AUGUSTA 69KV'	8.840999	-0.00152	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03818	13
WERE	'CITY OF BURLINGTON 69KV'	21.939	-0.00137	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03803	13
WERE	'CITY OF FREDONIA 69KV'	6.960999	-0.00143	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03809	13
WERE	'CITY OF GIRARD 69KV'	6.108	-0.00131	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03797	13
WERE	'CITY OF IOLA 69KV'	13.157	-0.00135	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03801	13
WERE	'CITY OF MULVANE 69KV'	7.5	-0.00154	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.0382	13
WERE	'CITY OF OSAGE CITY 115KV'	8.85	-0.00124	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.0379	13
WERE	'CITY OF WINFIELD 69KV'	13.23	-0.00174	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.0384	13
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.00124	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.0379	13
AEPW	'COGENTRIX 345KV'	129	-0.00183	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03849	13
OKGE	'CONTINENTAL EMPIRE 138KV'	32	-0.00222	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03888	13
SPS	'CUNNINGHAM 115KV'	10.09521	-0.00229	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03895	13
CELE	'D.G. HUNTER POWER STATION 138KV'	41.9016	-0.00286	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03952	13
SWPA	'DENISON 138KV'	10.40001	-0.0035	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.04016	13
WERE	'EMPORIA 345KV'	828	-0.00128	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03794	13
SWPA	'EUFAULA 138KV'	9.000004	-0.00152	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03818	13
SWPA	'EUFAULA 161KV'	12.2	-0.00152	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03818	13
CELE	'EVANGELINE 138KV'	173.9626	-0.00271	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03937	13
CELE	'EVANGELINE 230KV'	256.4438	-0.00267	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03933	13
WERE	'EVANS ENERGY CENTER 138KV'	162	-0.00155	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03821	13
WERE	'GETTY 69KV'	35	-0.0015	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03816	13
WERE	'GILL ENERGY CENTER 69KV'	8	-0.00155	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03821	13
OKGE	'HORSESHOE LAKE 138KV'	339.7876	-0.00255	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03921	13
WERE	'HUTCHINSON ENERGY CENTER 115KV'	91	-0.00129	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03795	13
WERE	'HUTCHINSON ENERGY CENTER 69KV'	6.999996	-0.00129	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03795	13
LEPA	'IRION SUB 230KV'	19	-0.00126	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03792	13
GRDA	'KERR 115KV'	13.5	-0.00152	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03818	13
GRDA	'KERR 161KV'	28.5	-0.00153	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03819	13
SWPA	'KEYSTONE DAM 161KV'	49.60001	-0.00181	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03847	13
AEPW	'KIOWA 345KV'	1348	-0.00352	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.04018	13
SPS	'LP-HOLL2 69KV'	132	-0.00233	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03899	13
SPS	'LP-MACK2 69KV'	20	-0.00233	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03899	13
SPS	'MADDOX 115KV'	75	-0.00229	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03895	13
AEPW	'MATTISON 161KV'	190	-0.00139	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03805	13
OKGE	'MCCLAIN 138KV'	42	-0.00261	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03927	13
AEPW	'MID-CONTINENT 138KV'	142.11	-0.00157	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03823	13
WFEC	'MORLND 138KV'	7.435551	-0.00241	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03907	13
OKGE	'MUSKOGEE 161KV'	31	-0.00154	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.0382	13
OKGE	'MUSKOGEE 345KV'	20	-0.00177	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03843	13
CELE	'NATCHITOCHES 69KV'	20.12032	-0.00283	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03949	13
SPS	'NICHOLS 115KV'	66.00001	-0.00218	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03884	13
SPS	'NICHOLS 230KV'	97	-0.00217	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03883	13
AEPW	'OEC 345KV'	1841.03	-0.00175	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03841	13
OMPA	'OMPA-KAW 69KV'	10	-0.00211	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03877	13
OMPA	'OMPA-KINGFISHER BOWMAN 69KV'	8.5	-0.00244	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.0391	13
OMPA	'OMPA-MANGUM 69KV'	6.3	-0.0026	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03926	13
OMPA	'OMPA-PAWHUSKA NORTHEAST 138KV'	6.9	-0.00181	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03847	13
OMPA	'OMPA-PONCA CITY 69KV'	115.5721	-0.00211	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03877	13
OKGE	'ONE OAK 345KV'	200	-0.00248	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03914	13
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	SWPA	'BROKEN BOW 138KV'	93.6	-0.00614	-0.03981	13
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	WFEC	'HUGO 138KV'	450	-0.00528	-0.04067	13
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	AEPW	'NARROWS 69KV'	22	-0.00794	-0.03801	13
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	AEPW	'WELSH 345KV'	1044	-0.00774	-0.03821	13
SPS	'PLANTX 115KV'	48	-0.00227	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03893	13
OKGE	'RED ROCK 345KV'	1050	-0.00231	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03897	13
OKGE	'REDBUD 345KV'	1100	-0.00246	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03912	13
AEPW	'RIVERSIDE STATION 138KV'	240	-0.00184	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.0385	13
EMDE	'RIVERTON 161KV'	126.546	-0.00128	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03794	13
EMDE	'RIVERTON 69KV'	20.05076	-0.00127	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03793	13
SPS	'RIVERVIEW 69KV'	23	-0.00218	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03884	13
CELE	'RODEMACHER 230KV'	66	-0.00292	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03958	13
GRDA	'SALINA 161KV'	68.86746	-0.00153	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03819	13
OKGE	'SEMINOLE 138KV'	24.97342	-0.00283	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03949	13
OKGE	'SOONER 138KV'	24.99997	-0.00222	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03888	13
OKGE	'SOUTH 4TH ST 69KV'	42.7	-0.00227	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03893	13
AEPW	'SOUTHWESTERN STATION 138KV'	383	-0.00272	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03938	13
WERE	'ST JOHN 115KV'	7.5	-0.00136	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03802	13
EMDE	'STATE LINE 161KV'	103	-0.00126	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03792	13
CELE	'TECHE 138KV'	109.0194	-0.00216	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03882	13
CELE	'TECHE 34KV'	23	-0.00216	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03882	13
OKGE	'TINKER 5G 138KV'	62	-0.00263	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03929	13
SPS	'TOLK 230KV'	55.96359	-0.00228	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03894	13
SPS	'TUCUMCARI 115KV'	15	-0.00227	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03893	13
AEPW	'TULSA POWER STATION 138KV'	142	-0.00181	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03847	13
AEPW	'TULSA POWER STATION 69KV'	80	-0.00181	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03847	13
SWPA	'WEBBERS FALLS 161KV'	29.8	-0.00143	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03809	13
AEPW	'WELEETKA 138KV'	58	-0.00236	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03902	13
OKGE	'WOODWARD 24KV'	9.3	-0.00241	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03907	13
SWPA	'BEAVER 161KV'	23.18529	-0.00113	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03779	14
WERE	'BROWN COUNTY 115KV'	5.5	-0.00111	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03777	14
SWPA	'BULL SHOALS 161KV'	110.2	-0.00042	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03708	14
SWPA	'CLARENCE CANNON DAM 69KV'	8.599998	-0.00062	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03728	14
AEPW	'FITZHUGH 161KV'	25.00001	-0.00043	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03709	14

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

SWPA	'GREERS FERRY 161KV'	16.4	0.00034	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03632	14
WERE	'HOLTON 115KV'	19.8	-0.00115	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03781	14
SWPA	'INDEPENDENCE 161KV'	13	0.00031	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03635	14
WERE	'JEFFREY ENERGY CENTER 230KV'	17.87061	-0.0012	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03786	14
WERE	'JEFFREY ENERGY CENTER 345KV'	22	-0.0012	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03786	14
SWPA	'JONESBORO 161KV'	20	0.0002	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03646	14
SWPA	'KENNETT 69KV'	21.5	0.00009	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03657	14
AEPW	'KNOXLEE 138KV'	259	-0.09455	AEPW	'LIEBERMAN 138KV'	73.99999	-0.05716	-0.03739	14
AEPW	'LD13 69KV'	13	-0.00072	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03738	14
EMDE	'LARUSSEL 161KV'	180	-0.00115	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03781	14
WERE	'LAWRENCE ENERGY CENTER 230KV'	37.69617	-0.00118	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03784	14
SWPA	'MALDEN 69KV'	10	0.00005	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03681	14
AEPW	'NORTH MARSHALL 69KV'	5	-0.06925	AEPW	'LEBROCK 345KV'	315	-0.03252	-0.03673	14
SWPA	'OZARK 161KV'	44.9	-0.00043	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03709	14
SWPA	'PARAGOULD 69KV'	12	0.00015	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03651	14
SWPA	'PIGGOTT 69KV'	7.5	0.00007	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03659	14
SWPA	'POPLAR BLUFF 69KV'	13	-0.00006	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03672	14
SWPA	'ROBERT S. KERR 161KV'	73.90001	-0.00009	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03756	14
WERE	'SOUTH SENECA 115KV'	16.7	-0.00112	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03778	14
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.00119	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03785	14
SWPA	'TRUMAN 161KV'	78.00002	-0.00087	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03753	14
AEPW	'LEBROCK 345KV'	382	-0.03252	AEPW	'WILKES 345KV'	297.2948	0.00169	-0.03421	15
AEPW	'WILKES 345KV'	13.7052	0.00169	CELE	'DOLET HILLS 345KV'	360	0.03666	-0.03497	15
AEPW	'LEBROCK 345KV'	382	-0.03252	WERE	'ABILENE ENERGY CENTER 115KV'	45	-0.00125	-0.03127	16
AEPW	'LEBROCK 345KV'	382	-0.03252	OKGE	'AES 161KV'	320	-0.00068	-0.03184	16
AEPW	'LEBROCK 345KV'	382	-0.03252	EMDE	'ASBURY 161KV'	191	-0.00126	-0.03126	16
AEPW	'LEBROCK 345KV'	382	-0.03252	SWPA	'BEAVER 161KV'	142.4147	-0.00113	-0.03139	16
AEPW	'LEBROCK 345KV'	382	-0.03252	WERE	'BPU - CITY OF MCPHERSON 115KV'	165	-0.00128	-0.03124	16
AEPW	'LEBROCK 345KV'	382	-0.03252	SWPA	'BULL SHOALS 161KV'	279.4	-0.00042	-0.0321	16
AEPW	'LEBROCK 345KV'	382	-0.03252	SWPA	'CARTHAGE 69KV'	32	-0.00119	-0.03133	16
AEPW	'LEBROCK 345KV'	382	-0.03252	WERE	'CHANUTE 69KV'	55.637	-0.00139	-0.03113	16
AEPW	'LEBROCK 345KV'	382	-0.03252	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00152	-0.031	16
AEPW	'LEBROCK 345KV'	382	-0.03252	WERE	'CITY OF BURLINGTON 69KV'	34.061	-0.00137	-0.03115	16
AEPW	'LEBROCK 345KV'	382	-0.03252	WERE	'CITY OF ERIE 69KV'	23.374	-0.00139	-0.03113	16
AEPW	'LEBROCK 345KV'	382	-0.03252	LEPA	'CITY OF HOUMA SUB 115KV'	84	-0.00129	-0.03123	16
AEPW	'LEBROCK 345KV'	382	-0.03252	WERE	'CITY OF IOLA 69KV'	24.471	-0.00135	-0.03117	16
AEPW	'LEBROCK 345KV'	382	-0.03252	SWPA	'CLARENCE CANNON DAM 69KV'	39.4	-0.00062	-0.0319	16
AEPW	'LEBROCK 345KV'	382	-0.03252	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	-0.00137	-0.03115	16
AEPW	'LEBROCK 345KV'	382	-0.03252	EMDE	'ELK RIVER 345KV'	46	-0.00145	-0.03107	16
AEPW	'LEBROCK 345KV'	382	-0.03252	WERE	'ELK RIVER WIND 34KV'	100	-0.00145	-0.03107	16
AEPW	'LEBROCK 345KV'	382	-0.03252	SWPA	'EUFAULA 138KV'	51	-0.00152	-0.031	16
AEPW	'LEBROCK 345KV'	382	-0.03252	SWPA	'EUFAULA 161KV'	69.8	-0.00152	-0.031	16
AEPW	'LEBROCK 345KV'	382	-0.03252	AEPW	'FITZHUGH 161KV'	101	-0.00043	-0.03209	16
AEPW	'LEBROCK 345KV'	382	-0.03252	AEPW	'FLINT CREEK 161KV'	428	-0.00141	-0.03111	16
AEPW	'LEBROCK 345KV'	382	-0.03252	SWPA	'GREERS FERRY 161KV'	93.6	0.00034	-0.03286	16
AEPW	'LEBROCK 345KV'	382	-0.03252	WERE	'HUTCHINSON ENERGY CENTER 115KV'	345	-0.00129	-0.03123	16
AEPW	'LEBROCK 345KV'	382	-0.03252	WERE	'HUTCHINSON ENERGY CENTER 69KV'	45	-0.00129	-0.03123	16
AEPW	'LEBROCK 345KV'	382	-0.03252	LEPA	'IRION SUB 230KV'	25	-0.00126	-0.03126	16
AEPW	'LEBROCK 345KV'	382	-0.03252	WERE	'JEFFREY ENERGY CENTER 230KV'	476.1294	-0.0012	-0.03132	16
AEPW	'LEBROCK 345KV'	382	-0.03252	WERE	'JEFFREY ENERGY CENTER 345KV'	960	-0.0012	-0.03132	16
AEPW	'LEBROCK 345KV'	382	-0.03252	SWPA	'JONESBORO 161KV'	43	0.00002	-0.03272	16
AEPW	'LEBROCK 345KV'	382	-0.03252	SWPA	'KENNETT 69KV'	7.5	0.00009	-0.03261	16
AEPW	'LEBROCK 345KV'	382	-0.03252	GRDA	'KERR 115KV'	13.5	-0.00152	-0.031	16
AEPW	'LEBROCK 345KV'	382	-0.03252	AEPW	'LD13 69KV'	11	-0.00072	-0.0318	16
AEPW	'LEBROCK 345KV'	382	-0.03252	EMDE	'LARUSSEL 161KV'	116	-0.00115	-0.03137	16
AEPW	'LEBROCK 345KV'	382	-0.03252	WERE	'LAWRENCE ENERGY CENTER 230KV'	231.3038	-0.00118	-0.03134	16
AEPW	'LEBROCK 345KV'	382	-0.03252	SWPA	'MALDEN 69KV'	7	0.00005	-0.03257	16
AEPW	'LEBROCK 345KV'	382	-0.03252	AEPW	'MATTISON 161KV'	320	-0.00139	-0.03113	16
AEPW	'LEBROCK 345KV'	382	-0.03252	SWPA	'OZARK 161KV'	150.6	-0.00043	-0.03209	16
AEPW	'LEBROCK 345KV'	382	-0.03252	EMDE	'OZARK BEACH 161KV'	16	-0.00083	-0.03169	16
AEPW	'LEBROCK 345KV'	382	-0.03252	SWPA	'PARAGOULD 69KV'	5.5	0.00015	-0.03267	16
AEPW	'LEBROCK 345KV'	382	-0.03252	GRDA	'PENSACOLA 161KV'	33	-0.00147	-0.03105	16
AEPW	'LEBROCK 345KV'	382	-0.03252	GRDA	'PENSACOLA 69KV'	29.80457	-0.00146	-0.03106	16
AEPW	'LEBROCK 345KV'	382	-0.03252	EMDE	'RIVERTON 161KV'	195.454	-0.00128	-0.03124	16
AEPW	'LEBROCK 345KV'	382	-0.03252	EMDE	'RIVERTON 69KV'	47.94924	-0.00127	-0.03125	16
AEPW	'LEBROCK 345KV'	382	-0.03252	SWPA	'ROBERT S. KERR 161KV'	314.8	-0.00009	-0.03162	16
AEPW	'LEBROCK 345KV'	382	-0.03252	SWPA	'SIKESTON 161KV'	235	-0.00003	-0.03249	16
AEPW	'LEBROCK 345KV'	382	-0.03252	EMDE	'STATE LINE 161KV'	503	-0.00126	-0.03126	16
AEPW	'LEBROCK 345KV'	382	-0.03252	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00119	-0.03133	16
AEPW	'LEBROCK 345KV'	382	-0.03252	SWPA	'TRUMAN 161KV'	102	-0.00087	-0.03165	16
AEPW	'LEBROCK 345KV'	382	-0.03252	LEPA	'WATERLOO SUB 230KV'	6	-0.00127	-0.03125	16
AEPW	'LEBROCK 345KV'	382	-0.03252	SWPA	'WEBBERS FALLS 161KV'	39.2	-0.00143	-0.03109	16
AEPW	'PIRKEY GENERATION 138KV'	25	-0.04595	AEPW	'WILKES 138KV'	199.2238	-0.01429	-0.03166	16
AEPW	'LEBROCK 345KV'	382	-0.03252	CELE	'ACADIA 138KV'	88.79679	-0.0025	-0.03002	17
AEPW	'LEBROCK 345KV'	382	-0.03252	LEPA	'BAYOU RAMOS 138KV'	29.82497	-0.00181	-0.03071	17
AEPW	'LEBROCK 345KV'	382	-0.03252	SPS	'BLACKHAWK 115KV'	220	-0.00218	-0.03034	17
AEPW	'LEBROCK 345KV'	382	-0.03252	GRDA	'BOOMER 69KV'	24	-0.0021	-0.03042	17
AEPW	'LEBROCK 345KV'	382	-0.03252	SPS	'CAPROCK 115KV'	79.98182	-0.00227	-0.03025	17
AEPW	'LEBROCK 345KV'	382	-0.03252	WERE	'CITY OF MULVANE 69KV'	8.29	-0.00154	-0.03098	17
AEPW	'LEBROCK 345KV'	382	-0.03252	WERE	'CITY OF WINFIELD 69KV'	26.77	-0.00174	-0.03078	17
AEPW	'LEBROCK 345KV'	382	-0.03252	AEPW	'COGENTRIX 345KV'	765	-0.00183	-0.03069	17
AEPW	'LEBROCK 345KV'	382	-0.03252	SPS	'CUNNINGHAM 115KV'	170.9048	-0.00229	-0.03023	17
AEPW	'LEBROCK 345KV'	382	-0.03252	SPS	'CUNNINGHAM 230KV'	306	-0.00229	-0.03023	17
AEPW	'LEBROCK 345KV'	382	-0.03252	SPS	'CZ 69KV'	39	-0.00221	-0.03031	17
AEPW	'LEBROCK 345KV'	382	-0.03252	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.00155	-0.03097	17
AEPW	'LEBROCK 345KV'	382	-0.03252	OKGE	'FPLWIND2 34KV'	102	-0.00241	-0.03011	17
AEPW	'LEBROCK 345KV'	382	-0.03252	WERE	'GILL ENERGY CENTER 138KV'	216	-0.00154	-0.03098	17
AEPW	'LEBROCK 345KV'	382	-0.03252	WERE	'GILL ENERGY CENTER 69KV'	75	-0.00155	-0.03097	17
AEPW	'LEBROCK 345KV'	382	-0.03252	GRDA	'GRDA1 161KV'	190	-0.00154	-0.03098	17
AEPW	'LEBROCK 345KV'	382	-0.03252	GRDA	'GRDA1 345KV'	220	-0.00154	-0.03098	17
AEPW	'LEBROCK 345KV'	382	-0.03252	SPS	'HARRINGTON 230KV'	1066	-0.00217	-0.03035	17
AEPW	'LEBROCK 345KV'	382	-0.03252	SPS	'HUBCO2 69KV'	11	-0.00218	-0.03034	17
AEPW	'LEBROCK 345KV'	382	-0.03252	SPS	'JONES 230KV'	486	-0.00233	-0.03019	17
AEPW	'LEBROCK 345KV'	382	-0.03252	GRDA	'KERR 161KV'	13.5	-0.00153	-0.03099	17
AEPW	'LEBROCK 345KV'	382	-0.03252	SWPA	'KEYSTONE DAM 161KV'	150.6	-0.00181	-0.03071	17
AEPW	'LEBROCK 345KV'	382	-0.03252	SPS	'LP-BRND2 69KV'	20	-0.00233	-0.03019	17
AEPW	'LEBROCK 345KV'	382	-0.03252	SPS	'LP-MACK2 69KV'	60	-0.00233	-0.03019	17
AEPW	'LEBROCK 345KV'	382	-0.03252	SPS	'MADOX 115KV'	118	-0.00229	-0.03023	17
AEPW	'LEBROCK 345KV'	382	-0.03252	SPS	'MOORE COUNTY 115KV'	48	-0.00216	-0.03036	17
AEPW	'LEBROCK 345KV'	382	-0.03252	WFEC	'MORLND 138KV'	312.5645	-0.00241	-0.03011	17
AEPW	'LEBROCK 345KV'	382	-0.03252	OKGE	'MUSKOGEE 161KV'	166	-0.00154	-0.03098	17
AEPW	'LEBROCK 345KV'	382	-0.03252	OKGE	'MUSKOGEE 345KV'	1516	-0.00177	-0.03075	17
AEPW	'LEBROCK 345KV'	382	-0.03252	SPS	'MUSTANG 115KV'	300	-0.0023	-0.03022	17

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

AEPW	'LEBROCK 345KV'	382	-0.03252	SPS	'MUSTANG 230KV'	360	-0.00229	-0.03023	17
AEPW	'LEBROCK 345KV'	382	-0.03252	SPS	'NICHOLS 115KV'	147	-0.00218	-0.03034	17
AEPW	'LEBROCK 345KV'	382	-0.03252	SPS	'NICHOLS 230KV'	147	-0.00217	-0.03035	17
AEPW	'LEBROCK 345KV'	382	-0.03252	AEPW	'NORTHEASTERN STATION 138KV'	500	-0.00166	-0.03086	17
AEPW	'LEBROCK 345KV'	382	-0.03252	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00165	-0.03087	17
AEPW	'LEBROCK 345KV'	382	-0.03252	AEPW	'OEC 345KV'	306	-0.00175	-0.03077	17
AEPW	'LEBROCK 345KV'	382	-0.03252	OMPA	'OMPA-KAW 69KV'	19.7	-0.00211	-0.03041	17
AEPW	'LEBROCK 345KV'	382	-0.03252	OMPA	'OMPA-PONCA CITY 69KV'	78.11124	-0.00211	-0.03041	17
AEPW	'LEBROCK 345KV'	382	-0.03252	OKGE	'ONE OAK 345KV'	136	-0.00248	-0.03004	17
AEPW	'LEBROCK 345KV'	382	-0.03252	SPS	'PLANTX 115KV'	205	-0.00227	-0.03025	17
AEPW	'LEBROCK 345KV'	382	-0.03252	SPS	'PLANTX 230KV'	189	-0.00227	-0.03025	17
AEPW	'LEBROCK 345KV'	382	-0.03252	OKGE	'REDBUD 345KV'	100	-0.00246	-0.03006	17
AEPW	'LEBROCK 345KV'	382	-0.03252	AEPW	'RIVER SIDE 138KV'	172	-0.00184	-0.03068	17
AEPW	'LEBROCK 345KV'	382	-0.03252	AEPW	'RIVERSIDE STATION 138KV'	482	-0.00184	-0.03068	17
AEPW	'LEBROCK 345KV'	382	-0.03252	GRDA	'SALINA 161KV'	29.13254	-0.00153	-0.03099	17
AEPW	'LEBROCK 345KV'	382	-0.03252	SPS	'SAN JUAN 230KV'	119.9727	-0.00228	-0.03024	17
AEPW	'LEBROCK 345KV'	382	-0.03252	SPS	'SIDRCH 69KV'	20	-0.00218	-0.03034	17
AEPW	'LEBROCK 345KV'	382	-0.03252	WFEC	'SLEEPING BEAR 138KV'	80	-0.0024	-0.03012	17
AEPW	'LEBROCK 345KV'	382	-0.03252	OKGE	'SLEEPING BEAR 34KV'	120	-0.00241	-0.03011	17
AEPW	'LEBROCK 345KV'	382	-0.03252	OKGE	'SOONER 138KV'	505	-0.00222	-0.0303	17
AEPW	'LEBROCK 345KV'	382	-0.03252	OKGE	'SOONER 345KV'	513	-0.00231	-0.03021	17
AEPW	'LEBROCK 345KV'	382	-0.03252	SPS	'STEER WATER 115KV'	79.98182	-0.0022	-0.03032	17
AEPW	'LEBROCK 345KV'	382	-0.03252	CELE	'TECHE 138KV'	212.9806	-0.00216	-0.03036	17
AEPW	'LEBROCK 345KV'	382	-0.03252	SPS	'TOLK 230KV'	1024.036	-0.00228	-0.03024	17
AEPW	'LEBROCK 345KV'	382	-0.03252	AEPW	'TULSA POWER STATION 138KV'	152	-0.00181	-0.03071	17
AEPW	'LEBROCK 345KV'	382	-0.03252	WERE	'WACO 138KV'	17.967	-0.00154	-0.03098	17
AEPW	'LEBROCK 345KV'	382	-0.03252	AEPW	'WEELETKA 138KV'	84	-0.00236	-0.03016	17
AEPW	'LEBROCK 345KV'	382	-0.03252	SPS	'WILWIND 230KV'	159.9636	-0.00217	-0.03035	17

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

Upgrade: SOUTHWEST SHREVEPORT (SW SHV 1) 345/138/13.8KV TRANSFORMER CKT 1 DISPLACEMENT
 Limiting Facility: SOUTHWEST SHREVEPORT (SW SHV 1) 345/138/13.8KV TRANSFORMER CKT 1
 Direction: From->To
 Line Outage: SOUTHWEST SHREVEPORT (SW SHV 2) 345/138/13.8KV TRANSFORMER CKT 2
 Flowgate: SWSHV1274/SWSHV27421408SP
 Date Redispatch Needed: Starting 2008 6/1 - 10/1 Until EOC
 Season Flowgate Identified: 2008 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount
1158760	5.0	10.0
1158761	5.0	10.0

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.47771	21
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00179	-0.38955	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	CELE	'ACADIA 138KV'	307.0811	-0.00234	-0.389	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	OKGE	'AES 161KV'	320	-0.00113	-0.39021	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	WFEC	'ANADARKO 138KV'	286.2824	-0.00381	-0.38753	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	EMDE	'ASBURY 161KV'	191	-0.00182	-0.38952	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	LEPA	'BAYOU RAMOS 138KV'	29.82431	-0.00156	-0.38978	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SWPA	'BEAVER 161KV'	139.1643	-0.00166	-0.38968	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SPS	'BLACKHAWK 115KV'	220	-0.00305	-0.38829	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	GRDA	'BOOMER 69KV'	24	-0.00297	-0.38837	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	WERE	'BPU - CITY OF MCPHERSON 115KV'	157.1294	-0.00183	-0.38951	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SWPA	'BULL SHOALS 161KV'	279.4	-0.00072	-0.39062	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SWPA	'CARTHAGE 69KV'	32	-0.00174	-0.3896	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	WERE	'CHANUTE 69KV'	55.637	-0.002	-0.38934	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00217	-0.38917	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	WERE	'CITY OF BURLINGTON 69KV'	34.061	-0.00197	-0.38937	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	WERE	'CITY OF ERIE 69KV'	23.374	-0.002	-0.38934	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	LEPA	'CITY OF HOUMA SUB 115KV'	84	-0.00109	-0.39025	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	WERE	'CITY OF IOLA 69KV'	24.471	-0.00195	-0.38939	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	WERE	'CITY OF WINFIELD 69KV'	26.77	-0.00247	-0.38887	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SWPA	'CLARENCE CANNON DAM 69KV'	39.4	-0.00093	-0.39041	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	-0.00197	-0.38937	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	AEPW	'COGENTRIX 345KV'	300	-0.00261	-0.38873	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	AEPW	'COMANCHE 138KV'	160	-0.00383	-0.38751	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	AEPW	'COMANCHE 69KV'	63	-0.00384	-0.3875	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SPS	'CUNNINGHAM 115KV'	181	-0.00321	-0.38813	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SPS	'CUNNINGHAM 230KV'	306	-0.0032	-0.38814	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SPS	'CZ 69KV'	39	-0.0031	-0.38824	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	CELE	'D.G. HUNTER POWER STATION 138KV'	86.5168	-0.00125	-0.39009	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SWPA	'DENISON 138KV'	59.59999	-0.00496	-0.38638	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	EMDE	'ELK RIVER 345KV'	150	-0.00208	-0.38926	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	WERE	'ELK RIVER WIND 34KV'	100	-0.00208	-0.38926	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SWPA	'EUFAULA 138KV'	51	-0.00225	-0.38909	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SWPA	'EUFAULA 161KV'	69.8	-0.00225	-0.38909	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	CELE	'EVANGELINE 138KV'	141.4269	-0.00181	-0.38953	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	CELE	'EVANGELINE 230KV'	173.6403	-0.00182	-0.38972	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.00221	-0.38913	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	AEPW	'FITZHUGH 161KV'	101	-0.00079	-0.39055	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	AEPW	'FLINT CREEK 161KV'	428	-0.00205	-0.38929	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	OKGE	'FPLWIND 2 34KV'	102	-0.00337	-0.38797	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	WERE	'GILL ENERGY CENTER 138KV'	171	-0.0022	-0.38914	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	WERE	'GILL ENERGY CENTER 69KV'	75	-0.0022	-0.38914	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	GRDA	'GRDA1 161KV'	190	-0.00222	-0.38912	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	GRDA	'GRDA1 345KV'	220	-0.00222	-0.38912	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SWPA	'GREENS FERRY 161KV'	93.6	0.00026	-0.3916	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SPS	'HARRINGTON 230KV'	1066	-0.00304	-0.3883	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	OKGE	'HORSESHOE LAKE 138KV'	769.0186	-0.00356	-0.38778	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	OKGE	'HORSESHOE LAKE 69KV'	16	-0.00356	-0.38778	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	-0.00185	-0.38949	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	-0.00185	-0.38949	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SWPA	'INDEPENDENCE 161KV'	13	-0.00023	-0.39157	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	LEPA	'IRION SUB 230KV'	25	-0.00106	-0.39028	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00173	-0.38961	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00173	-0.38961	26

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

AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SPS	'JONES 230KV'	486	-0.00326	-0.38808	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SWPA	'JONESBORO 161KV'	43	-0.00013	-0.39147	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	GRDA	'KERR 115KV'	13.5	-0.0022	-0.38914	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	GRDA	'KERR 161KV'	13.5	-0.00221	-0.38913	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SWPA	'KEYSTONE DAM 161KV'	150.6	-0.00259	-0.38875	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	EMDE	'LARUSSEL 161KV'	116	-0.00168	-0.38966	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	WERE	'LAWRENCE ENERGY CENTER 230KV'	231.5762	-0.0017	-0.38964	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SPS	'LP-BRND2 69KV'	20	-0.00326	-0.38808	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SPS	'LP-MACK2 69KV'	60	-0.00326	-0.38808	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SPS	'MADOX 115KV'	183	-0.00321	-0.38813	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	AEPW	'MATTISON 161KV'	320	-0.00202	-0.38932	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	OKGE	'MCCLAIN 138KV'	478	-0.00365	-0.38769	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SPS	'MOORE COUNTY 115KV'	48	-0.00303	-0.38831	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	WFEC	'MORLND 138KV'	298.512	-0.00337	-0.38797	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	OKGE	'MUSKOGEE 161KV'	166	-0.00224	-0.3891	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	OKGE	'MUSKOGEE 345KV'	1516	-0.00253	-0.38881	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SPS	'MUSTANG 115KV'	300	-0.00321	-0.38813	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	OKGE	'MUSTANG 138KV'	365.5	-0.00358	-0.38776	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SPS	'MUSTANG 230KV'	360	-0.00321	-0.38813	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	OKGE	'MUSTANG 69KV'	106	-0.00358	-0.38776	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	CELE	'NATCHITOCHE 69KV'	16.92836	-0.00137	-0.39271	25
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SPS	'NICHOLS 115KV'	147	-0.00306	-0.38828	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SPS	'NICHOLS 230KV'	147	-0.00304	-0.3883	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	AEPW	'NORTHEASTERN STATION 138KV'	472	-0.00238	-0.38896	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00237	-0.38897	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	AEPW	'OEC 345KV'	319	-0.00251	-0.38883	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	OMPA	'OMPA-KAW 69KV'	19.7	-0.00298	-0.38836	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	OMPA	'OMPA-PONCA CITY 69KV'	117.1716	-0.00298	-0.38836	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	OKGE	'ONE OAK 345KV'	75	-0.00347	-0.38787	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SWPA	'OZARK 161KV'	150.6	-0.00079	-0.39055	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	EMDE	'OZARK BEACH 161KV'	16	-0.00126	-0.39008	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	GRDA	'PENSACOLA 161KV'	33	-0.00212	-0.38922	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	GRDA	'PENSACOLA 69KV'	29.80457	-0.00212	-0.38922	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SPS	'PLANTX 115KV'	225.9048	-0.00318	-0.38816	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SPS	'PLANTX 230KV'	189	-0.00317	-0.38817	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	OKGE	'REDBUD 345KV'	100	-0.00344	-0.3879	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	AEPW	'RIVERSIDE STATION 138KV'	422	-0.00262	-0.38872	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	EMDE	'RIVERTON 161KV'	88.89612	-0.00186	-0.38948	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	EMDE	'RIVERTON 69KV'	44.39298	-0.00185	-0.38949	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SWPA	'ROBERT S. KERR 161KV'	314.8	-0.00142	-0.38992	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	CELE	'RODMACHER 230KV'	651	-0.00106	-0.39028	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	GRDA	'SALINA 161KV'	26.50488	-0.00221	-0.38913	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SPS	'SAN JUAN 230KV'	12	-0.00319	-0.38815	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	OKGE	'SEMINOLE 138KV'	479.3077	-0.00394	-0.3874	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	OKGE	'SEMINOLE 345KV'	996	-0.00395	-0.38739	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SPS	'SIDRCH 69KV'	20	-0.00305	-0.38829	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SWPA	'SIKESTON 161KV'	235	-0.00015	-0.39119	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	WFEC	'SLEEPING BEAR 138KV'	80	-0.00337	-0.38797	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	OKGE	'SLEEPING BEAR 34KV'	120	-0.00338	-0.38796	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	OKGE	'SMITH COGEN 138KV'	120	-0.0036	-0.38774	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	OKGE	'SOONER 138KV'	505	-0.00312	-0.38822	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	OKGE	'SOONER 345KV'	513	-0.00324	-0.3881	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	AEPW	'SOUTHWESTERN STATION 138KV'	311	-0.0038	-0.38754	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	EMDE	'STATE LINE 161KV'	503	-0.00183	-0.38951	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	CELE	'TECHE 138KV'	227.5919	-0.00187	-0.38947	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00171	-0.38963	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SPS	'TOLK 230KV'	1027.49	-0.00318	-0.38816	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SWPA	'TRUMAN 161KV'	102	-0.00128	-0.39006	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	AEPW	'TULSA POWER STATION 138KV'	38	-0.00259	-0.38875	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	WERE	'WACO 138KV'	17.967	-0.0022	-0.38914	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	AEPW	'WEATHERFORD 34KV'	148	-0.00357	-0.38777	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SWPA	'WEBBERS FALLS 161KV'	39.2	-0.00212	-0.38922	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	AEPW	'WELLETKA 138KV'	84	-0.00341	-0.38793	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	AEPW	'WILKES 345KV'	191	-0.00103	-0.39031	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SPS	'WILWIND 230KV'	16	-0.00304	-0.3883	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	SWPA	'BROKEN BOW 138KV'	93.6	-0.00965	-0.38169	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	WFEC	'HUGO 138KV'	450	-0.0076	-0.38374	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	AEPW	'NARROWS 69KV'	22	-0.01354	-0.3778	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	AEPW	'WELSH 345KV'	1044	-0.00825	-0.38309	26
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	AEPW	'WILKES 138KV'	136.7419	-0.03012	-0.36122	28
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	AEPW	'LEBROCK 345KV'	465	-0.0464	-0.34494	29
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	AEPW	'PIRKEY GENERATION 138KV'	490	-0.07038	-0.32096	31
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	CELE	'DOLET HILLS 345KV'	360	-0.08637	-0.31045	32
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	AEPW	'EASTMAN 138KV'	355	-0.08859	-0.30275	33
AEPW	'ARSENAL HILL 69KV'	99	-0.39134	AEPW	'KNOXLEE 138KV'	103	-0.10873	-0.28261	35
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00179	-0.22229	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	CELE	'ACADIA 138KV'	307.0811	-0.00234	-0.22174	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	OKGE	'AES 161KV'	320	-0.00113	-0.22295	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	EMDE	'ASBURY 161KV'	191	-0.00182	-0.22226	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	LEPA	'BAYOU RAMOS 138KV'	29.82431	-0.00156	-0.22252	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	SWPA	'BEAVER 161KV'	139.1643	-0.00166	-0.22242	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	SPS	'BLACKHAWK 115KV'	220	-0.00305	-0.22103	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	GRDA	'BOOMER 69KV'	24	-0.00297	-0.22111	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	WERE	'BPU - CITY OF MCPHERSON 115KV'	157.1294	-0.00183	-0.22225	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	SWPA	'BULL SHOALS 161KV'	279.4	-0.00072	-0.22336	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	SWPA	'CHATHAGE 69KV'	32	-0.00174	-0.22234	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	WERE	'CHANUTE 69KV'	55.637	-0.002	-0.22208	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00217	-0.22191	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	WERE	'CITY OF BURLINGTON 69KV'	34.061	-0.00197	-0.22211	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	WERE	'CITY OF ERIE 69KV'	23.374	-0.002	-0.22208	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	LEPA	'CITY OF HOUMA SUB 115KV'	84	-0.00109	-0.22299	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	WERE	'CITY OF IOLA 69KV'	24.471	-0.00195	-0.22213	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	WERE	'CITY OF WINFIELD 69KV'	26.77	-0.00247	-0.22161	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	SWPA	'CLARENCE CANNON DAM 69KV'	39.4	-0.00093	-0.22315	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	AEPW	'COGENTRIX 345KV'	300	-0.00261	-0.22147	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	SPS	'CUNNINGHAM 115KV'	181	-0.00321	-0.22087	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	SPS	'CUNNINGHAM 230KV'	306	-0.0032	-0.22088	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	SPS	'CZ 69KV'	39	-0.0031	-0.22098	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	CELE	'D.G. HUNTER POWER STATION 138KV'	86.5168	-0.00125	-0.22283	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	EMDE	'ELK RIVER 345KV'	150	-0.00208	-0.222	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	WERE	'ELK RIVER WIND 34KV'	100	-0.00208	-0.222	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	SWPA	'EUFAULA 138KV'	51	-0.00225	-0.22183	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	SWPA	'EUFAULA 161KV'	69.8	-0.00225	-0.22183	45

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

AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	CELE	'EVANGELINE 138KV'	141.4269	-0.00181	-0.22227	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	CELE	'EVANGELINE 230KV'	173.6403	-0.00162	-0.22246	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.00221	-0.22187	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	AEPW	'FITZHUGH 161KV'	101	-0.00079	-0.22329	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	AEPW	'FLINT CREEK 161KV'	428	-0.00205	-0.22203	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	WERE	'GILL ENERGY CENTER 138KV'	171	-0.0022	-0.22188	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	WERE	'GILL ENERGY CENTER 69KV'	75	-0.0022	-0.22188	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	GRDA	'GRDA1 161KV'	190	-0.00222	-0.22186	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	GRDA	'GRDA1 345KV'	220	-0.00222	-0.22186	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	SWPA	'GREERS FERRY 161KV'	93.6	0.00026	-0.22434	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	SPS	'HARRINGTON 230KV'	1066	-0.00304	-0.22104	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	-0.00185	-0.22223	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	-0.00185	-0.22223	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	LEPA	'IRION SUB 230KV'	25	-0.00106	-0.22302	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00173	-0.22235	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00173	-0.22235	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	SPS	'JONES 230KV'	486	-0.00326	-0.22082	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	SWPA	'JONESBORO 161KV'	43	0.00013	-0.22421	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	SWPA	'KEYSTONE DAM 161KV'	150.6	-0.00259	-0.22149	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	EMDE	'LARUSSEL 161KV'	116	-0.00168	-0.2224	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	WERE	'LAWRENCE ENERGY CENTER 230KV'	231.5762	-0.0017	-0.22238	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	SPS	'LP-MACK2 69KV'	60	-0.00326	-0.22082	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	SPS	'MADOX 115KV'	183	-0.00321	-0.22087	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	AEPW	'MATTISON 161KV'	320	-0.00202	-0.22206	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	SPS	'MOORE COUNTY 115KV'	48	-0.00303	-0.22105	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	OKGE	'MUSKOGEE 161KV'	166	-0.00224	-0.22184	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	OKGE	'MUSKOGEE 345KV'	1516	-0.00253	-0.22155	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	SPS	'MUSTANG 115KV'	300	-0.00321	-0.22087	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	SPS	'MUSTANG 230KV'	360	-0.00321	-0.22087	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	SPS	'NICHOLS 115KV'	147	-0.00306	-0.22102	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	SPS	'NICHOLS 230KV'	147	-0.00304	-0.22104	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	AEPW	'NORTHEASTERN STATION 138KV'	472	-0.00238	-0.2217	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00237	-0.22171	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	AEPW	'OEC 345KV'	319	-0.00251	-0.22157	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	OMPA	'OMPA-PONCA CITY 69KV'	117.1716	-0.00298	-0.2211	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	SWPA	'OZARK 161KV'	150.6	-0.00079	-0.22329	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	GRDA	'PENSACOLA 161KV'	33	-0.00212	-0.22196	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	GRDA	'PENSACOLA 69KV'	29.80457	-0.00212	-0.22196	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	SPS	'PLANTX 115KV'	225.9048	-0.00318	-0.2209	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	SPS	'PLANTX 230KV'	189	-0.00317	-0.22091	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	AEPW	'RIVERSIDE STATION 138KV'	422	-0.00262	-0.22146	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	EMDE	'RIVERTON 161KV'	88.89612	-0.00186	-0.22222	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	EMDE	'RIVERTON 69KV'	44.39298	-0.00185	-0.22223	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	SWPA	'ROBERT S. KERR 161KV'	314.8	-0.00142	-0.22266	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	CELE	'RODEMACHER 230KV'	651	-0.00106	-0.22302	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	GRDA	'SALINA 161KV'	26.50488	-0.00221	-0.22187	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	SWPA	'SIKESTON 161KV'	235	-0.00015	-0.22393	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	OKGE	'SOONER 138KV'	505	-0.00312	-0.22096	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	OKGE	'SOONER 345KV'	513	-0.00324	-0.22084	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	EMDE	'STATE LINE 161KV'	503	-0.00183	-0.22225	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	CELE	'TECHE 138KV'	227.5919	-0.00187	-0.22221	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00171	-0.22237	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	SPS	'TOLK 230KV'	1027.49	-0.00318	-0.2209	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	SWPA	'TRUMAN 161KV'	102	-0.00128	-0.2228	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	AEPW	'TULSA POWER STATION 138KV'	38	-0.00259	-0.22149	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	SWPA	'WEBBERS FALLS 161KV'	39.2	-0.00212	-0.22196	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	AEPW	'WILKES 345KV'	191	-0.00103	-0.22305	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	WFEC	'ANADARKO 138KV'	286.2824	-0.00381	-0.22027	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	AEPW	'COMANCHE 138KV'	160	-0.00383	-0.22025	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	AEPW	'COMANCHE 69KV'	63	-0.00384	-0.22024	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	SWPA	'DENISON 138KV'	59.59999	-0.00496	-0.21912	46
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	OKGE	'FPLWIND2 34KV'	102	-0.00337	-0.22071	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	OKGE	'HORSESHOE LAKE 138KV'	769.0186	-0.00356	-0.22052	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	OKGE	'MCCLAIN 138KV'	478	-0.00365	-0.22043	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	WFEC	'MORLND 138KV'	298.512	-0.00337	-0.22071	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	OKGE	'MUSTANG 138KV'	365.5	-0.00358	-0.2205	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	OKGE	'MUSTANG 69KV'	106	-0.00358	-0.2205	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	OKGE	'ONE OAK 345KV'	75	-0.00347	-0.22061	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	OKGE	'REDBUD 345KV'	100	-0.00344	-0.22064	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	OKGE	'SEMINOLE 138KV'	479.3077	-0.00394	-0.22014	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	OKGE	'SEMINOLE 345KV'	996	-0.00395	-0.22013	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	WFEC	'SLEEPING BEAR 138KV'	80	-0.00337	-0.22071	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	OKGE	'SLEEPING BEAR 34KV'	120	-0.00338	-0.2207	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	OKGE	'SMITH COGEN 138KV'	120	-0.0036	-0.22048	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	AEPW	'SOUTHWESTERN STATION 138KV'	311	-0.0038	-0.22028	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	AEPW	'WEATHERFORD 34KV'	148	-0.00357	-0.22051	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	AEPW	'WEELETKA 138KV'	84	-0.00341	-0.22067	45
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	SWPA	'BROKEN BOW 138KV'	93.6	-0.00965	-0.21443	47
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	WFEC	'HUGO 138KV'	450	-0.0076	-0.21648	46
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	AEPW	'WELSH 345KV'	1044	-0.00825	-0.21583	46
AEPW	'KNOXLEE 138KV'	320	-0.10873	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.1951	51
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	AEPW	'WILKES 138KV'	136.7419	-0.03012	-0.19396	52
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	AEPW	'LEBROCK 345KV'	465	-0.0464	-0.17768	56
AEPW	'EASTMAN 138KV'	130.01	-0.08859	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.17496	57
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	AEPW	'PIRKEY GENERATION 138KV'	490	-0.07038	-0.1537	65
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	AEPW	'EASTMAN 138KV'	355	-0.08859	-0.13549	74
AEPW	'LEBROCK 345KV'	232	-0.0464	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.13277	75
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03308	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.11945	84
AEPW	'WILKES 138KV'	326.2581	-0.03012	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.11649	86
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22408	AEPW	'KNOXLEE 138KV'	103	-0.10873	-0.11535	87
AEPW	'KNOXLEE 138KV'	320	-0.10873	SWPA	'GREERS FERRY 161KV'	93.6	0.00026	-0.10899	92
AEPW	'KNOXLEE 138KV'	320	-0.10873	SWPA	'JONESBORO 161KV'	43	0.00013	-0.10886	92
AEPW	'KNOXLEE 138KV'	320	-0.10873	SWPA	'SIKESTON 161KV'	235	-0.00015	-0.10858	92
AEPW	'KNOXLEE 138KV'	320	-0.10873	OKGE	'AES 161KV'	320	-0.00113	-0.1076	93
AEPW	'KNOXLEE 138KV'	320	-0.10873	SWPA	'BULL SHOALS 161KV'	279.4	-0.00072	-0.10801	93
AEPW	'KNOXLEE 138KV'	320	-0.10873	LEPA	'CITY OF HOUMA SUB 115KV'	84	-0.00109	-0.10764	93
AEPW	'KNOXLEE 138KV'	320	-0.10873	CELE	'D.G. HUNTER POWER STATION 138KV'	86.5168	-0.00125	-0.10748	93
AEPW	'KNOXLEE 138KV'	320	-0.10873	AEPW	'FITZHUGH 161KV'	101	-0.00079	-0.10794	93
AEPW	'KNOXLEE 138KV'	320	-0.10873	SWPA	'OZARK 161KV'	150.6	-0.00079	-0.10794	93
AEPW	'KNOXLEE 138KV'	320	-0.10873	CELE	'RODEMACHER 230KV'	651	-0.00106	-0.10767	93
AEPW	'KNOXLEE 138KV'	320	-0.10873	SWPA	'TRUMAN 161KV'	102	-0.00128	-0.10745	93
AEPW	'KNOXLEE 138KV'	320	-0.10873	AEPW	'WILKES 345KV'	191	-0.00103	-0.1077	93
AEPW	'KNOXLEE 138KV'	320	-0.10873	EMDE	'ASBURY 161KV'	191	-0.00182	-0.10691	94

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

AEPW	'KNOXLEE 138KV'	320	-0.10873	SWPA	'BEAVER 161KV'	139.1643	-0.00166	-0.10707	93
AEPW	'KNOXLEE 138KV'	320	-0.10873	WERE	'BPU - CITY OF MCPHERSON 115KV'	157.1294	-0.00183	-0.1069	94
AEPW	'KNOXLEE 138KV'	320	-0.10873	WERE	'CHANUTE 69KV'	55.637	-0.002	-0.10673	94
AEPW	'KNOXLEE 138KV'	320	-0.10873	EMDE	'ELK RIVER 345KV'	150	-0.00208	-0.10665	94
AEPW	'KNOXLEE 138KV'	320	-0.10873	WERE	'ELK RIVER WIND 34KV'	100	-0.00208	-0.10665	94
AEPW	'KNOXLEE 138KV'	320	-0.10873	CELE	'EVANGELINE 138KV'	141.4269	-0.00181	-0.10692	94
AEPW	'KNOXLEE 138KV'	320	-0.10873	CELE	'EVANGELINE 230KV'	173.6403	-0.00162	-0.10711	93
AEPW	'KNOXLEE 138KV'	320	-0.10873	AEPW	'FLINT CREEK 161KV'	428	-0.00205	-0.10668	94
AEPW	'KNOXLEE 138KV'	320	-0.10873	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	-0.00185	-0.10688	94
AEPW	'KNOXLEE 138KV'	320	-0.10873	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00173	-0.107	94
AEPW	'KNOXLEE 138KV'	320	-0.10873	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00173	-0.107	94
AEPW	'KNOXLEE 138KV'	320	-0.10873	EMDE	'LARUSSEL 161KV'	116	-0.00168	-0.10705	93
AEPW	'KNOXLEE 138KV'	320	-0.10873	WERE	'LAWRENCE ENERGY CENTER 230KV'	231.5762	-0.0017	-0.10703	93
AEPW	'KNOXLEE 138KV'	320	-0.10873	AEPW	'MATTISON 161KV'	320	-0.00202	-0.10671	94
AEPW	'KNOXLEE 138KV'	320	-0.10873	EMDE	'RIVERTON 161KV'	88.89612	-0.00186	-0.10687	94
AEPW	'KNOXLEE 138KV'	320	-0.10873	EMDE	'RIVERTON 69KV'	44.39298	-0.00185	-0.10688	94
AEPW	'KNOXLEE 138KV'	320	-0.10873	SWPA	'ROBERT S. KERR 161KV'	314.8	-0.00142	-0.10731	93
AEPW	'KNOXLEE 138KV'	320	-0.10873	EMDE	'STATE LINE 161KV'	503	-0.00183	-0.1069	94
AEPW	'KNOXLEE 138KV'	320	-0.10873	CELE	'TECHE 138KV'	227.5919	-0.00187	-0.10686	94
AEPW	'KNOXLEE 138KV'	320	-0.10873	WERE	'TUCUMSEH ENERGY CENTER 115KV'	158	-0.00171	-0.10702	94
AEPW	'KNOXLEE 138KV'	320	-0.10873	CELE	'ACADIA 138KV'	307.0811	-0.00234	-0.10639	94
AEPW	'KNOXLEE 138KV'	320	-0.10873	AEPW	'COGENTRIX 345KV'	300	-0.00261	-0.10612	94
AEPW	'KNOXLEE 138KV'	320	-0.10873	SWPA	'EUFULA 138KV'	51	-0.00225	-0.10648	94
AEPW	'KNOXLEE 138KV'	320	-0.10873	SWPA	'EUFULA 161KV'	69.8	-0.00225	-0.10648	94
AEPW	'KNOXLEE 138KV'	320	-0.10873	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.00221	-0.10652	94
AEPW	'KNOXLEE 138KV'	320	-0.10873	WERE	'GILL ENERGY CENTER 138KV'	171	-0.0022	-0.10653	94
AEPW	'KNOXLEE 138KV'	320	-0.10873	WERE	'GILL ENERGY CENTER 69KV'	75	-0.0022	-0.10653	94
AEPW	'KNOXLEE 138KV'	320	-0.10873	GRDA	'GRDA1 161KV'	190	-0.00222	-0.10651	94
AEPW	'KNOXLEE 138KV'	320	-0.10873	GRDA	'GRDA1 345KV'	220	-0.00222	-0.10651	94
AEPW	'KNOXLEE 138KV'	320	-0.10873	SWPA	'KEYSTONE DAM 161KV'	150.6	-0.00259	-0.10614	94
AEPW	'KNOXLEE 138KV'	320	-0.10873	OKGE	'MUSKOGEE 161KV'	166	-0.00224	-0.10649	94
AEPW	'KNOXLEE 138KV'	320	-0.10873	OKGE	'MUSKOGEE 345KV'	1516	-0.00253	-0.1062	94
AEPW	'KNOXLEE 138KV'	320	-0.10873	AEPW	'NORTHEASTERN STATION 138KV'	472	-0.00238	-0.10635	94
AEPW	'KNOXLEE 138KV'	320	-0.10873	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00237	-0.10636	94
AEPW	'KNOXLEE 138KV'	320	-0.10873	AEPW	'OEC 345KV'	319	-0.00251	-0.10622	94
AEPW	'KNOXLEE 138KV'	320	-0.10873	AEPW	'RIVERSIDE STATION 138KV'	422	-0.00262	-0.10611	94
AEPW	'KNOXLEE 138KV'	320	-0.10873	SPS	'BLACKHAWK 115KV'	220	-0.00305	-0.10568	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	SPS	'CUNNINGHAM 115KV'	181	-0.00321	-0.10552	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	SPS	'CUNNINGHAM 230KV'	306	-0.0032	-0.10553	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	OKGE	'FPLWIND2 34KV'	102	-0.00337	-0.10536	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	SPS	'HARRINGTON 230KV'	1066	-0.00304	-0.10569	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	OKGE	'HORSESHOE LAKE 138KV'	769.0186	-0.00356	-0.10517	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	SPS	'JONES 230KV'	486	-0.00326	-0.10547	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	SPS	'LP-MACK2 69KV'	60	-0.00326	-0.10547	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	SPS	'MADOX 115KV'	183	-0.00321	-0.10552	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	OKGE	'MCCLAIN 138KV'	478	-0.00365	-0.10508	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	SPS	'MOORE COUNTY 115KV'	48	-0.00303	-0.1057	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	WFEC	'MORLAND 138KV'	298.512	-0.00337	-0.10536	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	SPS	'MUSTANG 115KV'	300	-0.00321	-0.10552	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	OKGE	'MUSTANG 138KV'	365.5	-0.00358	-0.10515	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	SPS	'MUSTANG 230KV'	360	-0.00321	-0.10552	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	OKGE	'MUSTANG 69KV'	106	-0.00358	-0.10515	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	SPS	'NICHOLS 115KV'	147	-0.00306	-0.10567	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	SPS	'NICHOLS 230KV'	147	-0.00304	-0.10569	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	OMPA	'OMPA-PONCA CITY 69KV'	117.1716	-0.00298	-0.10575	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	OKGE	'ONE OAK 345KV'	75	-0.00347	-0.10526	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	SPS	'PLANTX 115KV'	225.9048	-0.00318	-0.10555	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	SPS	'PLANTX 230KV'	189	-0.00317	-0.10556	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	OKGE	'REDBUD 345KV'	100	-0.00344	-0.10529	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	WFEC	'SLEEPING BEAR 138KV'	80	-0.00337	-0.10536	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	OKGE	'SLEEPING BEAR 34KV'	120	-0.00338	-0.10535	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	OKGE	'SMITH COGEN 138KV'	120	-0.0036	-0.10513	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	OKGE	'SOONER 138KV'	505	-0.00312	-0.10561	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	OKGE	'SOONER 345KV'	513	-0.00324	-0.10549	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	SPS	'TOLK 230KV'	1027.49	-0.00318	-0.10555	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	AEPW	'WEATHERFORD 34KV'	148	-0.00357	-0.10516	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	AEPW	'WELEETKA 138KV'	84	-0.00341	-0.10532	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	WFEC	'ANADARKO 138KV'	286.2824	-0.00381	-0.10492	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	AEPW	'COMANCHE 138KV'	160	-0.00383	-0.1049	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	AEPW	'COMANCHE 69KV'	63	-0.00384	-0.10489	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	OKGE	'SEMINOLE 138KV'	479.3077	-0.00394	-0.10479	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	OKGE	'SEMINOLE 345KV'	996	-0.00395	-0.10478	96
AEPW	'KNOXLEE 138KV'	320	-0.10873	AEPW	'SOUTHWESTERN STATION 138KV'	311	-0.0038	-0.10493	95
AEPW	'KNOXLEE 138KV'	320	-0.10873	SWPA	'DENISON 138KV'	59.59999	-0.00496	-0.10377	96
AEPW	'KNOXLEE 138KV'	320	-0.10873	WFEC	'HUGO 138KV'	450	-0.0076	-0.10113	99
AEPW	'TURK 138KV'	608	-0.01483	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.1012	99
AEPW	'KNOXLEE 138KV'	320	-0.10873	AEPW	'WELSH 345KV'	1044	-0.00825	-0.10048	100
AEPW	'KNOXLEE 138KV'	320	-0.10873	SWPA	'BROKEN BOW 138KV'	93.6	-0.00965	-0.09908	101
AEPW	'KIOWA 345KV'	1348	-0.00481	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.09118	110
WFEC	'ANADARKO 138KV'	136	-0.00381	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.09018	111
WFEC	'ANADARKO 69KV'	76	-0.00379	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.09016	111
WFEC	'BLUE CANYON 138KV'	151.2	-0.00379	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.09016	111
OKGE	'HORSESHOE LAKE 138KV'	82.48141	-0.00356	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.08993	111
SPS	'LP-HOLL2 69KV'	132	-0.00326	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.08963	112
OKGE	'ONE OAK 345KV'	261	-0.00347	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.08984	111
OKGE	'RED ROCK 345KV'	1050	-0.00324	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.08961	112
OKGE	'REDBUD 345KV'	1100	-0.00344	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.08981	111
AEPW	'SOUTHWESTERN STATION 138KV'	448	-0.0038	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.09017	111
OKGE	'TINKER 5G 138KV'	62	-0.00368	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.09005	111
AEPW	'WELEETKA 138KV'	58	-0.00341	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.08978	111
SPS	'NICHOLS 115KV'	66.00001	-0.00306	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.08943	112
SPS	'NICHOLS 230KV'	97	-0.00304	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.08941	112
OMPA	'OMPA-PONCA CITY 69KV'	89.66048	-0.00298	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.08935	112
SPS	'TOLK 230KV'	52.51041	-0.00318	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.08955	112
CELE	'ACADIA 138KV'	814.9189	-0.00234	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.08871	113
AEPW	'COGENTRIX 345KV'	594	-0.00261	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.08898	112
AEPW	'EASTMAN 138KV'	130.01	-0.08859	SWPA	'GREERS FERRY 161KV'	93.6	0.00026	-0.08885	113
WERE	'EVANS ENERGY CENTER 138KV'	162	-0.00221	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.08858	113
AEPW	'MID-CONTINENT 138KV'	142.11	-0.00226	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.08863	113
AEPW	'OEC 345KV'	1828.03	-0.00251	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.08888	113
AEPW	'RIVER SIDE 138KV'	172	-0.00262	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.08899	112
AEPW	'RIVERSIDE STATION 138KV'	300	-0.00262	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.08899	112
GRDA	'SALINA 161KV'	71.49512	-0.00221	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.08858	113

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

AEPW	'TULSA POWER STATION 138KV'	256	-0.00259	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.08896	112
AEPW	'TULSA POWER STATION 69KV'	80	-0.00259	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.08896	112
AEPW	'EASTMAN 138KV'	130.01	-0.08859	SWPA	'SIKESTON 161KV'	235	-0.00015	-0.08844	113
WERE	'EMPORIA 345KV'	828	-0.00184	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.08821	113
CELE	'EVANGELINE 138KV'	170.5731	-0.00181	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.08818	113
CELE	'EVANGELINE 230KV'	251.3597	-0.00162	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.08799	114
WERE	'HUTCHINSON ENERGY CENTER 115KV'	141	-0.00185	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.08822	113
EMDE	'LARUSSEL 161KV'	180	-0.00168	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.08805	114
AEPW	'MATTISON 161KV'	190	-0.00202	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.08839	113
EMDE	'RIVERTON 161KV'	233.1039	-0.00186	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.08823	113
EMDE	'STATE LINE 161KV'	103	-0.00183	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.0882	113
CELE	'TECHE 138KV'	94.40805	-0.00187	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.08824	113
AEPW	'EASTMAN 138KV'	130.01	-0.08859	OKGE	'AES 161KV'	320	-0.00113	-0.08746	114
AEPW	'EASTMAN 138KV'	130.01	-0.08859	SWPA	'BULL SHOALS 161KV'	279.4	-0.00072	-0.08787	114
AEPW	'EASTMAN 138KV'	130.01	-0.08859	LEPA	'CITY OF HOUMA SUB 115KV'	84	-0.00109	-0.0875	114
AEPW	'EASTMAN 138KV'	130.01	-0.08859	AEPW	'FITZHUGH 161KV'	101	-0.00079	-0.0878	114
AEPW	'EASTMAN 138KV'	130.01	-0.08859	SWPA	'OZARK 161KV'	150.6	-0.00079	-0.0878	114
AEPW	'EASTMAN 138KV'	130.01	-0.08859	CELE	'RODEMACHER 230KV'	651	-0.00106	-0.08753	114
AEPW	'EASTMAN 138KV'	130.01	-0.08859	AEPW	'WILKES 345KV'	191	-0.00103	-0.08756	114
SWPA	'ROBERT S. KERR 161KV'	73.90001	-0.00142	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.08779	114
CELE	'RODEMACHER 230KV'	66	-0.00106	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.08743	114
SWPA	'TRUMAN 161KV'	78.00002	-0.00128	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.08765	114
AEPW	'WILKES 345KV'	120	-0.00103	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.0874	114
SWPA	'BULL SHOALS 161KV'	110.2	-0.00072	CELE	'DOLET HILLS 345KV'	360	0.08637	-0.08709	115
AEPW	'EASTMAN 138KV'	130.01	-0.08859	SWPA	'BEAVER 161KV'	139.1643	-0.00166	-0.08693	115
AEPW	'EASTMAN 138KV'	130.01	-0.08859	CELE	'D.G. HUNTER POWER STATION 138KV'	86.5168	-0.00125	-0.08734	115
AEPW	'EASTMAN 138KV'	130.01	-0.08859	CELE	'EVANGELINE 230KV'	173.6403	-0.00162	-0.08697	115
AEPW	'EASTMAN 138KV'	130.01	-0.08859	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00173	-0.08686	115
AEPW	'EASTMAN 138KV'	130.01	-0.08859	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00173	-0.08686	115
AEPW	'EASTMAN 138KV'	130.01	-0.08859	EMDE	'LARUSSEL 161KV'	116	-0.00168	-0.08691	115
AEPW	'EASTMAN 138KV'	130.01	-0.08859	WERE	'LAWRENCE ENERGY CENTER 230KV'	231.5762	-0.0017	-0.08689	115
AEPW	'EASTMAN 138KV'	130.01	-0.08859	SWPA	'ROBERT S. KERR 161KV'	314.8	-0.00142	-0.08717	115
AEPW	'EASTMAN 138KV'	130.01	-0.08859	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00171	-0.08688	115
AEPW	'EASTMAN 138KV'	130.01	-0.08859	SWPA	'TRUMAN 161KV'	102	-0.00128	-0.08731	115
AEPW	'EASTMAN 138KV'	130.01	-0.08859	EMDE	'ASBURY 161KV'	191	-0.00182	-0.08677	115
AEPW	'EASTMAN 138KV'	130.01	-0.08859	WERE	'BPU - CITY OF MCPHERSON 115KV'	157.1294	-0.00183	-0.08676	115
AEPW	'EASTMAN 138KV'	130.01	-0.08859	WERE	'CHANUTE 69KV'	55.637	-0.002	-0.08659	116
AEPW	'EASTMAN 138KV'	130.01	-0.08859	EMDE	'ELK RIVER 345KV'	150	-0.00208	-0.08651	116
AEPW	'EASTMAN 138KV'	130.01	-0.08859	WERE	'ELK RIVER WIND 34KV'	100	-0.00208	-0.08651	116
AEPW	'EASTMAN 138KV'	130.01	-0.08859	SWPA	'EUFAULA 161KV'	69.8	-0.00225	-0.08634	116
AEPW	'EASTMAN 138KV'	130.01	-0.08859	CELE	'EVANGELINE 138KV'	141.4269	-0.00181	-0.08678	115
AEPW	'EASTMAN 138KV'	130.01	-0.08859	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.00221	-0.08638	116
AEPW	'EASTMAN 138KV'	130.01	-0.08859	AEPW	'FLINT CREEK 161KV'	428	-0.00205	-0.08654	116
AEPW	'EASTMAN 138KV'	130.01	-0.08859	WERE	'GILL ENERGY CENTER 138KV'	171	-0.0022	-0.08639	116
AEPW	'EASTMAN 138KV'	130.01	-0.08859	WERE	'GILL ENERGY CENTER 69KV'	75	-0.0022	-0.08639	116
AEPW	'EASTMAN 138KV'	130.01	-0.08859	GRDA	'GRDA1 161KV'	190	-0.00222	-0.08637	116
AEPW	'EASTMAN 138KV'	130.01	-0.08859	GRDA	'GRDA1 345KV'	220	-0.00222	-0.08637	116
AEPW	'EASTMAN 138KV'	130.01	-0.08859	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	-0.00185	-0.08674	115
AEPW	'EASTMAN 138KV'	130.01	-0.08859	AEPW	'MATTISON 161KV'	320	-0.00202	-0.08657	116
AEPW	'EASTMAN 138KV'	130.01	-0.08859	OKGE	'MUSKOGEE 161KV'	166	-0.00224	-0.08635	116
AEPW	'EASTMAN 138KV'	130.01	-0.08859	EMDE	'RIVERTON 161KV'	88.89612	-0.00186	-0.08673	115
AEPW	'EASTMAN 138KV'	130.01	-0.08859	EMDE	'STATE LINE 161KV'	503	-0.00183	-0.08676	115
AEPW	'EASTMAN 138KV'	130.01	-0.08859	CELE	'TECHE 138KV'	227.5919	-0.00187	-0.08672	115
AEPW	'EASTMAN 138KV'	130.01	-0.08859	CELE	'ACADIA 138KV'	307.0811	-0.00234	-0.08625	116
AEPW	'EASTMAN 138KV'	130.01	-0.08859	AEPW	'COGENTRIX 345KV'	300	-0.00261	-0.08598	116
AEPW	'EASTMAN 138KV'	130.01	-0.08859	SWPA	'KEYSTONE DAM 161KV'	150.6	-0.00259	-0.086	116
AEPW	'EASTMAN 138KV'	130.01	-0.08859	OKGE	'MUSKOGEE 345KV'	1516	-0.00253	-0.08606	116
AEPW	'EASTMAN 138KV'	130.01	-0.08859	AEPW	'NORTHEASTERN STATION 138KV'	472	-0.00238	-0.08621	116
AEPW	'EASTMAN 138KV'	130.01	-0.08859	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00237	-0.08622	116
AEPW	'EASTMAN 138KV'	130.01	-0.08859	AEPW	'OEC 345KV'	319	-0.00251	-0.08608	116
AEPW	'EASTMAN 138KV'	130.01	-0.08859	AEPW	'RIVERSIDE STATION 138KV'	422	-0.00262	-0.08597	116
AEPW	'EASTMAN 138KV'	130.01	-0.08859	SPS	'BLACKHAWK 115KV'	220	-0.00305	-0.08554	117
AEPW	'EASTMAN 138KV'	130.01	-0.08859	SPS	'CUNNINGHAM 115KV'	181	-0.00321	-0.08538	117
AEPW	'EASTMAN 138KV'	130.01	-0.08859	SPS	'CUNNINGHAM 230KV'	306	-0.0032	-0.08539	117
AEPW	'EASTMAN 138KV'	130.01	-0.08859	SPS	'HARRINGTON 230KV'	1068	-0.00304	-0.08555	117
AEPW	'EASTMAN 138KV'	130.01	-0.08859	SPS	'JONES 230KV'	486	-0.00326	-0.08533	117
AEPW	'EASTMAN 138KV'	130.01	-0.08859	SPS	'LP-MACK2 69KV'	60	-0.00326	-0.08533	117
AEPW	'EASTMAN 138KV'	130.01	-0.08859	SPS	'MADOX 115KV'	183	-0.00321	-0.08538	117
AEPW	'EASTMAN 138KV'	130.01	-0.08859	SPS	'MUSTANG 115KV'	300	-0.00321	-0.08538	117
AEPW	'EASTMAN 138KV'	130.01	-0.08859	SPS	'MUSTANG 230KV'	360	-0.00321	-0.08538	117
AEPW	'EASTMAN 138KV'	130.01	-0.08859	SPS	'NICHOLS 115KV'	147	-0.00306	-0.08553	117
AEPW	'EASTMAN 138KV'	130.01	-0.08859	SPS	'NICHOLS 230KV'	147	-0.00304	-0.08555	117
AEPW	'EASTMAN 138KV'	130.01	-0.08859	OMPA	'OMPA-PONCA CITY 69KV'	117.1716	-0.00298	-0.08561	117
AEPW	'EASTMAN 138KV'	130.01	-0.08859	SPS	'PLANTX 115KV'	225.9048	-0.00318	-0.08541	117
AEPW	'EASTMAN 138KV'	130.01	-0.08859	SPS	'PLANTX 230KV'	189	-0.00317	-0.08542	117
AEPW	'EASTMAN 138KV'	130.01	-0.08859	OKGE	'SOONER 138KV'	505	-0.00312	-0.08547	117
AEPW	'EASTMAN 138KV'	130.01	-0.08859	OKGE	'SOONER 345KV'	513	-0.00324	-0.08535	117
AEPW	'EASTMAN 138KV'	130.01	-0.08859	SPS	'TOLK 230KV'	1027.49	-0.00318	-0.08541	117
AEPW	'EASTMAN 138KV'	130.01	-0.08859	WFEC	'ANADARKO 138KV'	286.2824	-0.00381	-0.08478	118
AEPW	'EASTMAN 138KV'	130.01	-0.08859	AEPW	'COMANCHE 138KV'	160	-0.00383	-0.08476	118
AEPW	'EASTMAN 138KV'	130.01	-0.08859	AEPW	'COMANCHE 69KV'	63	-0.00384	-0.08475	118
AEPW	'EASTMAN 138KV'	130.01	-0.08859	OKGE	'FPLWND2 34KV'	102	-0.00337	-0.08522	117
AEPW	'EASTMAN 138KV'	130.01	-0.08859	OKGE	'HORSESHOE LAKE 138KV'	769.0186	-0.00356	-0.08503	118
AEPW	'EASTMAN 138KV'	130.01	-0.08859	OKGE	'MCCLAIN 138KV'	478	-0.00365	-0.08494	118
AEPW	'EASTMAN 138KV'	130.01	-0.08859	WFEC	'MORLND 138KV'	298.512	-0.00337	-0.08522	117
AEPW	'EASTMAN 138KV'	130.01	-0.08859	OKGE	'MUSTANG 138KV'	365.5	-0.00358	-0.08501	118
AEPW	'EASTMAN 138KV'	130.01	-0.08859	OKGE	'MUSTANG 69KV'	106	-0.00358	-0.08501	118
AEPW	'EASTMAN 138KV'	130.01	-0.08859	OKGE	'ONE OAK 345KV'	75	-0.00347	-0.08512	118
AEPW	'EASTMAN 138KV'	130.01	-0.08859	OKGE	'REDBUD 345KV'	100	-0.00344	-0.08515	118
AEPW	'EASTMAN 138KV'	130.01	-0.08859	WFEC	'SLEEPING BEAR 138KV'	80	-0.00337	-0.08522	117
AEPW	'EASTMAN 138KV'	130.01	-0.08859	OKGE	'SLEEPING BEAR 34KV'	120	-0.00338	-0.08521	117
AEPW	'EASTMAN 138KV'	130.01	-0.08859	OKGE	'SMITH COGEN 138KV'	120	-0.0036	-0.08499	118
AEPW	'EASTMAN 138KV'	130.01	-0.08859	AEPW	'SOUTHWESTERN STATION 138KV'	311	-0.0038	-0.08479	118
AEPW	'EASTMAN 138KV'	130.01	-0.08859	AEPW	'WEATHERFORD 34KV'	148	-0.00357	-0.08502	118
AEPW	'EASTMAN 138KV'	130.01	-0.08859	AEPW	'WEELETKA 138KV'	84	-0.00341	-0.08518	117
AEPW	'EASTMAN 138KV'	130.01	-0.08859	OKGE	'SEMINOLE 138KV'	479.3077	-0.00394	-0.08465	118
AEPW	'EASTMAN 138KV'	130.01	-0.08859	OKGE	'SEMINOLE 345KV'	996	-0.00395	-0.08464	118
AEPW	'EASTMAN 138KV'	130.01	-0.08859	SWPA	'DENISON 138KV'	59.59999	-0.00496	-0.08363	120
AEPW	'EASTMAN 138KV'	130.01	-0.08859	WFEC	'HUGO 138KV'	450	-0.0076	-0.08099	124
AEPW	'EASTMAN 138KV'	130.01	-0.08859	AEPW	'WELSH 345KV'	1044	-0.00825	-0.08034	125
AEPW	'EASTMAN 138KV'	130.01	-0.08859	SWPA	'BROKEN BOW 138KV'	93.6	-0.00965	-0.07894	127
AEPW	'KNOXLEE 138KV'	320	-0.10873	AEPW	'WILKES 138KV'	136.7419	-0.03012	-0.07861	127
AEPW	'KNOXLEE 138KV'	320	-0.10873	AEPW	'LEBROCK 345KV'	465	-0.0464	-0.06233	161

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

AEPW	'EASTMAN 138KV'	130.01	-0.08859	AEPW	'WILKES 138KV'	136.7419	-0.03012	-0.05847	171
AEPW	'LEBROCK 345KV'	232	-0.0464	SWPA	'SIKESTON 161KV'	235	-0.00015	-0.04625	216
AEPW	'LEBROCK 345KV'	232	-0.0464	SWPA	'BULL SHOALS 161KV'	279.4	-0.00072	-0.04568	219
AEPW	'LEBROCK 345KV'	232	-0.0464	SWPA	'OZARK 161KV'	150.6	-0.00079	-0.04561	219
AEPW	'LEBROCK 345KV'	232	-0.0464	CELE	'RODEMACHER 230KV'	651	-0.00106	-0.04534	221
AEPW	'LEBROCK 345KV'	232	-0.0464	AEPW	'WILKES 345KV'	191	-0.00103	-0.04537	221
AEPW	'LEBROCK 345KV'	232	-0.0464	OKGE	'AES 161KV'	320	-0.00113	-0.04527	221
AEPW	'LEBROCK 345KV'	232	-0.0464	SWPA	'ROBERT S. KERR 161KV'	314.8	-0.00142	-0.04498	222
AEPW	'LEBROCK 345KV'	232	-0.0464	SWPA	'BEAVER 161KV'	139.1643	-0.00166	-0.04474	224
AEPW	'LEBROCK 345KV'	232	-0.0464	CELE	'EVANGELINE 230KV'	173.6403	-0.00162	-0.04478	223
AEPW	'LEBROCK 345KV'	232	-0.0464	CELE	'EVANGELINE 138KV'	141.4269	-0.00181	-0.04459	224
AEPW	'LEBROCK 345KV'	232	-0.0464	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00173	-0.04467	224
AEPW	'LEBROCK 345KV'	232	-0.0464	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00173	-0.04467	224
AEPW	'LEBROCK 345KV'	232	-0.0464	EMDE	'LARUSSEL 161KV'	116	-0.00168	-0.04472	224
AEPW	'LEBROCK 345KV'	232	-0.0464	WERE	'LAWRENCE ENERGY CENTER 230KV'	231.5762	-0.0017	-0.0447	224
AEPW	'LEBROCK 345KV'	232	-0.0464	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00171	-0.04469	224
AEPW	'LEBROCK 345KV'	232	-0.0464	EMDE	'ASBURY 161KV'	191	-0.00182	-0.04458	224
AEPW	'LEBROCK 345KV'	232	-0.0464	WERE	'BPU - CITY OF MCPHERSON 115KV'	157.1294	-0.00183	-0.04457	225
AEPW	'LEBROCK 345KV'	232	-0.0464	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	-0.00185	-0.04455	225
AEPW	'LEBROCK 345KV'	232	-0.0464	EMDE	'STATE LINE 161KV'	503	-0.00183	-0.04457	225
AEPW	'LEBROCK 345KV'	232	-0.0464	CELE	'TECHE 138KV'	227.5919	-0.00187	-0.04453	225
AEPW	'LEBROCK 345KV'	232	-0.0464	EMDE	'ELK RIVER 345KV'	150	-0.00208	-0.04432	226
AEPW	'LEBROCK 345KV'	232	-0.0464	AEPW	'FLINT CREEK 161KV'	428	-0.00205	-0.04435	226
AEPW	'LEBROCK 345KV'	232	-0.0464	AEPW	'MATTISON 161KV'	320	-0.00202	-0.04438	225
AEPW	'LEBROCK 345KV'	232	-0.0464	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.00221	-0.04419	226
AEPW	'LEBROCK 345KV'	232	-0.0464	WERE	'GILL ENERGY CENTER 138KV'	171	-0.00222	-0.0442	226
AEPW	'LEBROCK 345KV'	232	-0.0464	GRDA	'GRDA1 161KV'	190	-0.00222	-0.04418	227
AEPW	'LEBROCK 345KV'	232	-0.0464	GRDA	'GRDA1 345KV'	220	-0.00222	-0.04418	227
AEPW	'LEBROCK 345KV'	232	-0.0464	CELE	'ACADIA 138KV'	307.0811	-0.00234	-0.04406	227
AEPW	'LEBROCK 345KV'	232	-0.0464	OKGE	'MUSKOGEE 161KV'	166	-0.00224	-0.04416	227
AEPW	'LEBROCK 345KV'	232	-0.0464	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00237	-0.04403	227
AEPW	'LEBROCK 345KV'	232	-0.0464	AEPW	'NORTHEASTERN STATION 138KV'	472	-0.00238	-0.04402	227
AEPW	'LEBROCK 345KV'	232	-0.0464	AEPW	'OEC 345KV'	319	-0.00251	-0.04389	228
AEPW	'LEBROCK 345KV'	232	-0.0464	AEPW	'COGENTRIX 345KV'	300	-0.00281	-0.04379	229
AEPW	'LEBROCK 345KV'	232	-0.0464	SWPA	'KEYSTONE DAM 161KV'	150.6	-0.00259	-0.04381	228
AEPW	'LEBROCK 345KV'	232	-0.0464	OKGE	'MUSKOGEE 345KV'	1516	-0.00253	-0.04387	228
AEPW	'LEBROCK 345KV'	232	-0.0464	AEPW	'RIVERSIDE STATION 138KV'	422	-0.00282	-0.04378	229
AEPW	'LEBROCK 345KV'	232	-0.0464	SPS	'BLACKHAWK 115KV'	220	-0.00305	-0.04335	231
AEPW	'LEBROCK 345KV'	232	-0.0464	SPS	'HARRINGTON 230KV'	1066	-0.00304	-0.04336	231
AEPW	'LEBROCK 345KV'	232	-0.0464	SPS	'NICHOLS 230KV'	147	-0.00304	-0.04336	231
AEPW	'LEBROCK 345KV'	232	-0.0464	OMPA	'OMPA-PONCA CITY 69KV'	117.1716	-0.00298	-0.04342	230
AEPW	'LEBROCK 345KV'	232	-0.0464	SPS	'NICHOLS 115KV'	147	-0.00306	-0.04334	231
AEPW	'LEBROCK 345KV'	232	-0.0464	SPS	'PLANTX 115KV'	225.9048	-0.00318	-0.04322	232
AEPW	'LEBROCK 345KV'	232	-0.0464	SPS	'PLANTX 230KV'	189	-0.00317	-0.04323	231
AEPW	'LEBROCK 345KV'	232	-0.0464	OKGE	'SOONER 138KV'	505	-0.00312	-0.04328	231
AEPW	'LEBROCK 345KV'	232	-0.0464	SPS	'TOLK 230KV'	1027.49	-0.00318	-0.04322	232
AEPW	'LEBROCK 345KV'	232	-0.0464	SPS	'CUNNINGHAM 115KV'	181	-0.00321	-0.04319	232
AEPW	'LEBROCK 345KV'	232	-0.0464	SPS	'CUNNINGHAM 230KV'	306	-0.0032	-0.0432	232
AEPW	'LEBROCK 345KV'	232	-0.0464	SPS	'JONES 230KV'	486	-0.00326	-0.04314	232
AEPW	'LEBROCK 345KV'	232	-0.0464	SPS	'MADOX 115KV'	183	-0.00321	-0.04319	232
AEPW	'LEBROCK 345KV'	232	-0.0464	SPS	'MUSTANG 115KV'	300	-0.00321	-0.04319	232
AEPW	'LEBROCK 345KV'	232	-0.0464	SPS	'MUSTANG 230KV'	360	-0.00321	-0.04319	232
AEPW	'LEBROCK 345KV'	232	-0.0464	OKGE	'SOONER 345KV'	513	-0.00324	-0.04316	232
AEPW	'LEBROCK 345KV'	232	-0.0464	WFEC	'MORLND 138KV'	298.512	-0.00337	-0.04303	233
AEPW	'LEBROCK 345KV'	232	-0.0464	OKGE	'SLEEPING BEAR 34KV'	120	-0.00338	-0.04302	233
AEPW	'LEBROCK 345KV'	232	-0.0464	OKGE	'HORSESHOE LAKE 138KV'	769.0186	-0.00356	-0.04284	234
AEPW	'LEBROCK 345KV'	232	-0.0464	OKGE	'MUSTANG 138KV'	365.5	-0.00358	-0.04282	234
AEPW	'LEBROCK 345KV'	232	-0.0464	AEPW	'WEATHERFORD 34KV'	148	-0.00357	-0.04283	234
AEPW	'LEBROCK 345KV'	232	-0.0464	OKGE	'MCCLAIN 138KV'	478	-0.00365	-0.04275	234
AEPW	'LEBROCK 345KV'	232	-0.0464	OKGE	'SMITH COGEN 138KV'	120	-0.0036	-0.0428	234
AEPW	'LEBROCK 345KV'	232	-0.0464	WFEC	'ANADARKO 138KV'	286.2824	-0.00381	-0.04259	235
AEPW	'LEBROCK 345KV'	232	-0.0464	AEPW	'COMANCHE 138KV'	160	-0.00383	-0.04257	235
AEPW	'LEBROCK 345KV'	232	-0.0464	AEPW	'SOUTHWESTERN STATION 138KV'	311	-0.0038	-0.0426	235
AEPW	'LEBROCK 345KV'	232	-0.0464	OKGE	'SEMINOLE 138KV'	479.3077	-0.00394	-0.04246	236
AEPW	'LEBROCK 345KV'	232	-0.0464	OKGE	'SEMINOLE 345KV'	996	-0.00395	-0.04245	236
AEPW	'EASTMAN 138KV'	130.01	-0.08859	AEPW	'LEBROCK 345KV'	465	-0.0464	-0.04219	237
AEPW	'LEBROCK 345KV'	232	-0.0464	WFEC	'HUGO 138KV'	450	-0.0076	-0.0388	257
AEPW	'KNOXLEE 138KV'	320	-0.10873	AEPW	'PIRKEY GENERATION 138KV'	490	-0.07038	-0.03835	261
AEPW	'LEBROCK 345KV'	232	-0.0464	AEPW	'WELSH 345KV'	1044	-0.00825	-0.03815	262

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

Upgrade: SOUTHWEST SHREVEPORT (SW SHV 1) 345/138/13.8KV TRANSFORMER CKT 2 DISPLACEMENT
 Limiting Facility: SOUTHWEST SHREVEPORT (SW SHV 2) 345/138/13.8KV TRANSFORMER CKT 2
 Direction: From->To
 Line Outage: SOUTHWEST SHREVEPORT (SW SHV 1) 345/138/13.8KV TRANSFORMER CKT 1
 Flowgate: SWSHV22742SWSSHV17411408SP
 Date Redispatch Needed: Starting 2008 6/1 - 10/1 Until EOC
 Season Flowgate Identified: 2008 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount	Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
1158760	0.7	1.5	AEPW	'ARSENAL HILL 69KV'	99	-0.38429	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.4691	3
1158761	0.7	1.5	AEPW	'ARSENAL HILL 69KV'	99	-0.38429	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00175	-0.38254	4
			AEPW	'ARSENAL HILL 69KV'	99	-0.38429	CELE	'ACADIA 138KV'	307.0811	-0.0023	-0.38199	4
			AEPW	'ARSENAL HILL 69KV'	99	-0.38429	OKGE	'AES 161KV'	320	-0.00111	-0.38318	4
			AEPW	'ARSENAL HILL 69KV'	99	-0.38429	WFEC	'ANADARKO 138KV'	286.2824	-0.00374	-0.38055	4
			AEPW	'ARSENAL HILL 69KV'	99	-0.38429	EMDE	'ASBURY 161KV'	191	-0.00179	-0.3825	4
			AEPW	'ARSENAL HILL 69KV'	99	-0.38429	LEPA	'BAYOU RAMOS 138KV'	29.82431	-0.00153	-0.38276	4
			AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SWPA	'BEAVER 161KV'	139.1643	-0.00163	-0.38266	4
			AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SPS	'BLACKHAWK 115KV'	220	-0.00299	-0.3813	4
			AEPW	'ARSENAL HILL 69KV'	99	-0.38429	GRDA	'BOOMER 69KV'	24	-0.00292	-0.38137	4
			AEPW	'ARSENAL HILL 69KV'	99	-0.38429	WERE	'BPU - CITY OF MCPHERSON 115KV'	157.1294	-0.0018	-0.38249	4
			AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SWPA	'BROKEN BOW 138KV'	93.6	-0.00947	-0.37482	4
			AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SWPA	'BULL SHOALS 161KV'	279.4	-0.0007	-0.38359	4

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

AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SPS	'CAPROCK 115KV'	8	-0.00312	-0.38117	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SWPA	'CARTHAGE 69KV'	32	-0.00171	-0.38258	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	WERE	'CHANUTE 69KV'	55.637	-0.00196	-0.38233	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00213	-0.38216	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	WERE	'CITY OF BURLINGTON 69KV'	34.061	-0.00193	-0.38236	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	WERE	'CITY OF ERIE 69KV'	23.374	-0.00196	-0.38233	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	WERE	'CITY OF FREDONIA 69KV'	3.596	-0.00202	-0.38227	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	WERE	'CITY OF GIRARD 69KV'	4.592	-0.00186	-0.38243	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	LEPA	'CITY OF HOUMA SUB 115KV'	84	-0.00107	-0.38322	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	WERE	'CITY OF IOLA 69KV'	24.471	-0.00192	-0.38237	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	WERE	'CITY OF MULVANE 69KV'	8.29	-0.00215	-0.38214	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	WERE	'CITY OF NEODESHA 69KV'	4.495	-0.00204	-0.38225	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	WERE	'CITY OF WINFIELD 69KV'	26.77	-0.00242	-0.38187	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SWPA	'CLARENCE CANNON DAM 69KV'	39.4	-0.00091	-0.38338	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	-0.00193	-0.38236	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	AEPW	'COGENTRIX 345KV'	300	-0.00256	-0.38173	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	AEPW	'COMANCHE 138KV'	160	-0.00376	-0.38053	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	AEPW	'COMANCHE 69KV'	63	-0.00377	-0.38052	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SPS	'CUNNINGHAM 115KV'	181	-0.00315	-0.38114	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SPS	'CUNNINGHAM 230KV'	306	-0.00315	-0.38114	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SPS	'CZ 69KV'	39	-0.00304	-0.38125	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	CELE	'D.G. HUNTER POWER STATION 138KV'	86.5168	-0.00123	-0.38306	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SWPA	'DENISON 138KV'	59.59999	-0.00487	-0.37942	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	EMDE	'ELK RIVER 345KV'	150	-0.00204	-0.38225	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	WERE	'ELK RIVER WIND 34KV'	100	-0.00204	-0.38225	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SWPA	'EUFULA 138KV'	51	-0.00221	-0.38208	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SWPA	'EUFULA 161KV'	69.8	-0.00221	-0.38208	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	CELE	'EVANGELINE 138KV'	141.4269	-0.00178	-0.38251	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	CELE	'EVANGELINE 230KV'	173.6403	-0.0016	-0.38269	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.00217	-0.38212	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	AEPW	'FITZHUGH 161KV'	101	-0.00078	-0.38351	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	AEPW	'FLINT CREEK 161KV'	428	-0.00201	-0.38228	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	OKGE	'FPLWIND 2 34KV'	102	-0.00331	-0.38098	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	LEPA	'FROGSTATION 69KV'	3	-0.002	-0.38229	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	WERE	'GILL ENERGY CENTER 138KV'	171	-0.00216	-0.38213	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	WERE	'GILL ENERGY CENTER 69KV'	75	-0.00216	-0.38213	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	GRDA	'GRDA1 161KV'	190	-0.00218	-0.38211	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	GRDA	'GRDA1 345KV'	220	-0.00218	-0.38211	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SWPA	'GREERS FERRY 161KV'	93.6	0.00026	-0.38455	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SPS	'HARRINGTON 230KV'	1066	-0.00299	-0.3813	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	OKGE	'HORSESHOE LAKE 138KV'	769.0186	-0.0035	-0.38079	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	OKGE	'HORSESHOE LAKE 69KV'	16	-0.0035	-0.38079	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SPS	'HUBRCO2 69KV'	11	-0.00299	-0.3813	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	WFEC	'HUGO 138KV'	450	-0.00747	-0.37682	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	-0.00182	-0.38247	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	-0.00182	-0.38247	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SWPA	'INDEPENDENCE 161KV'	13	0.00022	-0.38451	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	LEPA	'IRION SUB 230KV'	25	-0.00104	-0.38325	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.0017	-0.38259	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.0017	-0.38259	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SPS	'JONES 230KV'	486	-0.0032	-0.38109	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SWPA	'JONESBORO 161KV'	43	0.00013	-0.38442	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SWPA	'KENNETT 69KV'	7.5	0	-0.38429	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	GRDA	'KERR 115KV'	13.5	-0.00216	-0.38213	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	GRDA	'KERR 161KV'	13.5	-0.00217	-0.38212	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SWPA	'KEYSTONE DAM 161KV'	150.6	-0.00254	-0.38175	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	AEPW	'LD13 69KV'	11	-0.00115	-0.38314	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	EMDE	'LARUSSEL 161KV'	116	-0.00165	-0.38264	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	WERE	'LAWRENCE ENERGY CENTER 230KV'	231.5762	-0.00167	-0.38262	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	AEPW	'LEBROCK 345KV'	465	-0.04556	-0.33873	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SPS	'LP-BRND2 69KV'	20	-0.0032	-0.38109	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SPS	'LP-MACK2 69KV'	60	-0.0032	-0.38109	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SPS	'MADOX 115KV'	183	-0.00315	-0.38114	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SWPA	'MALDEN 69KV'	7	-0.00005	-0.38424	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	AEPW	'MATTISON 161KV'	320	-0.00198	-0.38231	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	OKGE	'MCCLAIN 138KV'	478	-0.00358	-0.38071	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SPS	'MOORE COUNTY 115KV'	48	-0.00298	-0.38131	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	WFEC	'MORLND 138KV'	298.512	-0.00331	-0.38098	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	OKGE	'MUSKOGEE 161KV'	166	-0.0022	-0.38209	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	OKGE	'MUSKOGEE 345KV'	1516	-0.00248	-0.38181	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SPS	'MUSTANG 115KV'	300	-0.00315	-0.38114	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	OKGE	'MUSTANG 138KV'	365.5	-0.00352	-0.38077	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SPS	'MUSTANG 230KV'	360	-0.00315	-0.38114	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	OKGE	'MUSTANG 69KV'	106	-0.00351	-0.38078	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	AEPW	'NARROWS 69KV'	22	-0.0133	-0.37099	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	CELE	'NATCHITOCHEES 69KV'	16.92836	0.00134	-0.38563	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SPS	'NICHOLS 115KV'	147	-0.003	-0.38129	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SPS	'NICHOLS 230KV'	147	-0.00299	-0.3813	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	AEPW	'NORTHEASTERN STATION 138KV'	472	-0.00233	-0.38196	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00233	-0.38196	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	AEPW	'OEC 345KV'	319	-0.00246	-0.38183	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	OMPA	'OMPA-KAW 69KV'	19.7	-0.00292	-0.38137	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	OMPA	'OMPA-PONCA CITY 69KV'	117.1716	-0.00292	-0.38137	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	OKGE	'ONE OAK 345KV'	75	-0.00341	-0.38088	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SWPA	'OZARK 161KV'	150.6	-0.00077	-0.38352	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	EMDE	'OZARK BEACH 161KV'	16	-0.00124	-0.38305	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SWPA	'PARAGOULD 69KV'	5.5	0.00007	-0.38436	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	GRDA	'PENSACOLA 161KV'	33	-0.00208	-0.38221	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	GRDA	'PENSACOLA 69KV'	29.80457	-0.00208	-0.38221	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SPS	'PLANTX 115KV'	225.9048	-0.00312	-0.38117	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SPS	'PLANTX 230KV'	189	-0.00312	-0.38117	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	OKGE	'REDBUD 345KV'	100	-0.00338	-0.38091	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	AEPW	'RIVERSIDE STATION 138KV'	422	-0.00258	-0.38171	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	EMDE	'RIVERTON 161KV'	88.89612	-0.00182	-0.38247	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	EMDE	'RIVERTON 69KV'	44.39298	-0.00181	-0.38248	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SWPA	'ROBERT S. KERR 161KV'	314.8	-0.00139	-0.3829	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	CELE	'RODEMACHER 230KV'	651	-0.00104	-0.38325	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	GRDA	'SALINA 161KV'	26.50488	-0.00217	-0.38212	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SPS	'SAN JUAN 230KV'	12	-0.00313	-0.38116	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	OKGE	'SEMINOLE 138KV'	479.3077	-0.00387	-0.38042	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	OKGE	'SEMINOLE 345KV'	996	-0.00388	-0.38041	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SPS	'SIDRCH 69KV'	20	-0.00299	-0.3813	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SWPA	'SIKESTON 161KV'	235	-0.00014	-0.38415	4

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

AEPW	'ARSENAL HILL 69KV'	99	-0.38429	WFEC	'SLEEPING BEAR 138KV'	80	-0.00331	-0.38098	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	OKGE	'SLEEPING BEAR 34KV'	120	-0.00332	-0.38097	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	OKGE	'SMITH COGEN 138KV'	120	-0.00353	-0.38076	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	OKGE	'SOONER 138KV'	505	-0.00306	-0.38123	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	OKGE	'SOONER 345KV'	513	-0.00318	-0.38111	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	AEPW	'SOUTHWESTERN STATION 138KV'	311	-0.00373	-0.38056	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	EMDE	'STATE LINE 161KV'	503	-0.0018	-0.38249	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SPS	'STEER WATER 115KV'	8	-0.00302	-0.38127	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	CELE	'TECHE 138KV'	227.5919	-0.00183	-0.38246	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00188	-0.38261	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SPS	'TOLK 230KV'	1027.49	-0.00313	-0.38116	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SWPA	'TRUMAN 161KV'	102	-0.00126	-0.38303	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	AEPW	'TULSA POWER STATION 138KV'	38	-0.00255	-0.38174	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	WERE	'WACO 138KV'	17.967	-0.00216	-0.38213	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	LEPA	'WATERLOO SUB 230KV'	6	-0.00106	-0.38323	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	AEPW	'WEATHERFORD 34KV'	148	-0.0035	-0.38079	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SWPA	'WEBBERS FALLS 161KV'	39.2	-0.00208	-0.38221	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	AEPW	'WELLETKA 138KV'	84	-0.00334	-0.38095	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	AEPW	'WELSH 345KV'	1044	-0.00081	-0.37619	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	AEPW	'WILKES 138KV'	136.7419	-0.02958	-0.35471	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	AEPW	'WILKES 345KV'	191	-0.00102	-0.38327	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	SPS	'WILWIND 230KV'	16	-0.00299	-0.3813	4
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	AEPW	'EASTMAN 138KV'	355	-0.08699	-0.2973	5
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	AEPW	'PIRKEY GENERATION 138KV'	490	-0.06911	-0.31518	5
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.30485	5
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	AEPW	'KNOXLEE 138KV'	103	-0.10677	-0.27752	5
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	WERE	'ABLENE ENERGY CENTER 115KV'	40	-0.00175	-0.21829	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	CELE	'ACADIA 138KV'	307.0811	-0.0023	-0.21774	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	OKGE	'AES 161KV'	320	-0.00111	-0.21893	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	WFEC	'ANADARKO 138KV'	286.2824	-0.00374	-0.2163	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	EMDE	'ASBURY 161KV'	191	-0.00179	-0.21825	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	LEPA	'BAYOU RAMOS 138KV'	29.82431	-0.00153	-0.21851	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SWPA	'BEAVER 161KV'	139.1643	-0.00163	-0.21841	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SPS	'BLACKHAWK 115KV'	220	-0.00299	-0.21705	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	GRDA	'BOOMER 69KV'	24	-0.00292	-0.21712	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	WERE	'BPU - CITY OF MCPHERSON 115KV'	157.1294	-0.0018	-0.21824	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SWPA	'BROKEN BOW 138KV'	93.6	-0.00947	-0.21057	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SWPA	'BULL SHOALS 161KV'	279.4	-0.0007	-0.21934	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SPS	'CAPROCK 115KV'	8	-0.00312	-0.21692	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SWPA	'CARTHAGE 69KV'	32	-0.00171	-0.21833	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	WERE	'CHANUTE 69KV'	55.637	-0.00196	-0.21808	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00213	-0.21791	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	WERE	'CITY OF BURLINGTON 69KV'	34.061	-0.00193	-0.21811	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	WERE	'CITY OF ERIE 69KV'	23.374	-0.00196	-0.21808	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	WERE	'CITY OF FREDONIA 69KV'	3.596	-0.00202	-0.21802	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	WERE	'CITY OF GIRARD 69KV'	4.592	-0.00186	-0.21818	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	LEPA	'CITY OF HOUMA SUB 115KV'	84	-0.00107	-0.21897	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	WERE	'CITY OF IOLA 69KV'	24.471	-0.00192	-0.21812	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	WERE	'CITY OF MULVANE 69KV'	8.29	-0.00215	-0.21789	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	WERE	'CITY OF NEODESHA 69KV'	4.495	-0.00204	-0.218	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	WERE	'CITY OF WINFIELD 69KV'	26.77	-0.00242	-0.21762	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SWPA	'CLARENCE CANNON DAM 69KV'	39.4	-0.00091	-0.21913	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	-0.00193	-0.21811	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	AEPW	'COGENTRIX 345KV'	300	-0.00256	-0.21748	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	AEPW	'COMANCHE 138KV'	160	-0.00376	-0.21628	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	AEPW	'COMANCHE 69KV'	63	-0.00377	-0.21627	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SPS	'CUNNINGHAM 115KV'	181	-0.00315	-0.21689	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SPS	'CUNNINGHAM 230KV'	306	-0.00315	-0.21689	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SPS	'CZ 69KV'	39	-0.00304	-0.217	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	CELE	'D.G. HUNTER POWER STATION 138KV'	86.5168	-0.00123	-0.21881	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SWPA	'DENISON 138KV'	59.59999	-0.00487	-0.21517	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	EMDE	'ELK RIVER 345KV'	150	-0.00204	-0.218	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	WERE	'ELK RIVER WIND 34KV'	100	-0.00204	-0.218	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SWPA	'EUFAULA 138KV'	51	-0.00221	-0.21783	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SWPA	'EUFAULA 161KV'	69.8	-0.00221	-0.21783	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	CELE	'EVANGELINE 138KV'	141.4269	-0.00178	-0.21826	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	CELE	'EVANGELINE 230KV'	173.6403	-0.0016	-0.21844	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.00217	-0.21787	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	AEPW	'FITZHUGH 161KV'	101	-0.00078	-0.21926	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	AEPW	'FLINT CREEK 161KV'	428	-0.00201	-0.21803	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	OKGE	'FPLWIND2 34KV'	102	-0.00331	-0.21673	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	WERE	'GILL ENERGY CENTER 138KV'	171	-0.00216	-0.21788	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	WERE	'GILL ENERGY CENTER 69KV'	75	-0.00216	-0.21788	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	GRDA	'GRDA1 161KV'	190	-0.00218	-0.21786	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	GRDA	'GRDA1 345KV'	220	-0.00218	-0.21786	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SWPA	'GREERS FERRY 161KV'	93.6	0.00026	-0.2203	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SPS	'HARRINGTON 230KV'	1066	-0.00299	-0.21705	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	OKGE	'HORSESHOE LAKE 138KV'	769.0186	-0.0035	-0.21654	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	OKGE	'HORSESHOE LAKE 69KV'	16	-0.0035	-0.21654	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SPS	'HUBRCO2 69KV'	11	-0.00299	-0.21705	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	WFEC	'HUGO 138KV'	450	-0.00747	-0.21257	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	-0.00182	-0.21822	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	-0.00182	-0.21822	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SWPA	'INDEPENDENCE 161KV'	13	0.00022	-0.22026	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	LEPA	'IRION SUB 230KV'	25	-0.00104	-0.219	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.0017	-0.21834	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.0017	-0.21834	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SPS	'JONES 230KV'	486	-0.0032	-0.21684	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SWPA	'JONESBORO 161KV'	43	0.00013	-0.22017	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SWPA	'KENNETT 69KV'	7.5	0	-0.22004	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	GRDA	'KERR 115KV'	13.5	-0.00216	-0.21788	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	GRDA	'KERR 161KV'	13.5	-0.00217	-0.21787	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SWPA	'KEYSTONE DAM 161KV'	150.6	-0.00254	-0.2175	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	AEPW	'L&D13 69KV'	11	-0.00115	-0.21889	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	EMDE	'LARUSSEL 161KV'	116	-0.00165	-0.21839	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	WERE	'LAWRENCE ENERGY CENTER 230KV'	231.5762	-0.00167	-0.21837	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SPS	'LP-BRND2 69KV'	20	-0.0032	-0.21684	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SPS	'LP-MACK2 69KV'	60	-0.0032	-0.21684	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SPS	'MADOX 115KV'	183	-0.00315	-0.21689	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SWPA	'MALDEN 69KV'	7	-0.00005	-0.21999	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	AEPW	'MATTISON 161KV'	320	-0.00198	-0.21806	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	OKGE	'MCCLAIN 138KV'	478	-0.00358	-0.21646	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SPS	'MOORE COUNTY 115KV'	48	-0.00298	-0.21706	7

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

AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	WFEC	'MORLND 138KV'	298.512	-0.00331	-0.21673	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	OKGE	'MUSKOGEE 161KV'	166	-0.0022	-0.21784	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	OKGE	'MUSKOGEE 345KV'	1516	-0.00248	-0.21756	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SPS	'MUSTANG 115KV'	300	-0.00315	-0.21689	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	OKGE	'MUSTANG 138KV'	365.5	-0.00352	-0.21652	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SPS	'MUSTANG 230KV'	360	-0.00315	-0.21689	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	OKGE	'MUSTANG 69KV'	106	-0.00351	-0.21653	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	AEPW	'NARROWS 69KV'	22	-0.0133	-0.20674	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	CELE	'NATCHITOCHEES 69KV'	16,92836	0.00134	-0.22138	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SPS	'NICHOLS 115KV'	147	-0.003	-0.21704	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SPS	'NICHOLS 230KV'	147	-0.00299	-0.21705	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	AEPW	'NORTHEASTERN STATION 138KV'	472	-0.00233	-0.21771	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00233	-0.21771	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	AEPIV	'OEC 345KV'	319	-0.00246	-0.21758	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	OMPA	'OMPA-KAW 69KV'	19.7	-0.00292	-0.21712	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	OMPA	'OMPA-PONCA CITY 69KV'	117.1716	-0.00292	-0.21712	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	OKGE	'ONE OAK 345KV'	75	-0.00341	-0.21663	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SWPA	'OZARK 161KV'	150.6	-0.00077	-0.21927	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	EMDE	'OZARK BEACH 161KV'	16	-0.00124	-0.2188	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SWPA	'PARAGOULD 69KV'	5.5	0.00007	-0.22011	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	GRDA	'PENSACOLA 161KV'	33	-0.00208	-0.21796	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	GRDA	'PENSACOLA 69KV'	29,80457	-0.00208	-0.21796	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SPS	'PLANTX 115KV'	225,9048	-0.00312	-0.21692	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SPS	'PLANTX 230KV'	189	-0.00312	-0.21692	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	OKGE	'REDBUD 345KV'	100	-0.00338	-0.21666	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	AEPW	'RIVERSIDE STATION 138KV'	422	-0.00258	-0.21746	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	EMDE	'RIVERTON 161KV'	88,89612	-0.00182	-0.21822	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	EMDE	'RIVERTON 69KV'	44,39298	-0.00181	-0.21823	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SWPA	'ROBERT S. KERR 161KV'	314.8	-0.00139	-0.21865	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	CELE	'RODEMACHER 230KV'	651	-0.00104	-0.219	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	GRDA	'SALINA 161KV'	26,50488	-0.00217	-0.21787	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SPS	'SAN JUAN 230KV'	12	-0.00313	-0.21691	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	OKGE	'SEMINOLE 138KV'	479,3077	-0.00387	-0.21617	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	OKGE	'SEMINOLE 345KV'	996	-0.00388	-0.21616	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SPS	'SIDRCH 69KV'	20	-0.00299	-0.21705	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SWPA	'SKESTON 161KV'	235	-0.00014	-0.2199	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	WFEC	'SLEEPING BEAR 138KV'	80	-0.00331	-0.21673	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	OKGE	'SLEEPING BEAR 34KV'	120	-0.00332	-0.21672	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	OKGE	'SMITH COGEN 138KV'	120	-0.00353	-0.21651	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	OKGE	'SOONER 138KV'	505	-0.00306	-0.21698	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	OKGE	'SOONER 345KV'	513	-0.00318	-0.21686	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	AEPW	'SOUTHWESTERN STATION 138KV'	311	-0.00373	-0.21631	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	EMDE	'STATE LINE 161KV'	503	-0.0018	-0.21824	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SPS	'STEER WATER 115KV'	8	-0.00302	-0.21702	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	CELE	'TECHE 138KV'	227,5919	-0.00183	-0.21821	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00168	-0.21836	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SPS	'TOLK 230KV'	1027.49	-0.00313	-0.21691	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SWPA	'TRUMAN 161KV'	102	-0.00126	-0.21878	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	AEPW	'TULSA POWER STATION 138KV'	38	-0.00255	-0.21749	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	WERE	'WACO 138KV'	17,967	-0.00216	-0.21788	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	LEPA	'WATERLOO SUB 230KV'	6	-0.00106	-0.21898	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	AEPW	'WEATHERFORD 34KV'	148	-0.0035	-0.21654	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SWPA	'WEBBERS FALLS 161KV'	39.2	-0.00208	-0.21796	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	AEPW	'WEELETKA 138KV'	84	-0.00334	-0.2167	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	AEPW	'WELSH 345KV'	1044	-0.0081	-0.21194	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	AEPW	'WILKES 345KV'	191	-0.00102	-0.21902	7
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	SPS	'WILWIND 230KV'	16	-0.00299	-0.21705	7
AEPW	'NORTH MARSHALL 69KV'	5	-0.13591	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.22072	7
AEPW	'KNOXLEE 138KV'	320	-0.10677	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.19158	8
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	AEPW	'WILKES 138KV'	136,7419	-0.02958	-0.19046	8
AEPW	'EASTMAN 138KV'	130.01	-0.08699	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.1718	9
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	AEPIV	'LEBROCK 345KV'	465	-0.04556	-0.17448	8
AEPW	'ARSENAL HILL 69KV'	99	-0.38429	AEPIV	'LIEBERMAN 138KV'	26,18066	-0.22004	-0.16425	9
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	AEPW	'PIRKEY GENERATION 138KV'	490	-0.06911	-0.15093	10
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.15392	10
AEPW	'NORTH MARSHALL 69KV'	5	-0.13591	CELE	'NATCHITOCHEES 69KV'	16,92836	0.00134	-0.13725	11
AEPW	'LEBROCK 345KV'	232	-0.04556	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.13037	11
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	AEPW	'EASTMAN 138KV'	355	-0.08699	-0.13305	11
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.11729	13
AEPW	'LIEBERMAN 138KV'	201.8193	-0.22004	AEPW	'KNOXLEE 138KV'	103	-0.10677	-0.11327	13
AEPW	'WILKES 138KV'	326.2581	-0.02958	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.11439	13
AEPW	'KNOXLEE 138KV'	320	-0.10677	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00175	-0.10502	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	CELE	'ACADIA 138KV'	307,0811	-0.0023	-0.10447	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	OKGE	'AES 161KV'	320	-0.00111	-0.10566	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	EMDE	'ASBURY 161KV'	191	-0.00179	-0.10498	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	LEPA	'BAYOU RAMOS 138KV'	29,82431	-0.00153	-0.10524	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SWPA	'BEAVER 161KV'	139,1643	-0.00163	-0.10514	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SPS	'BLACKHAWK 115KV'	220	-0.00299	-0.10378	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	GRDA	'BOOMER 69KV'	24	-0.00292	-0.10385	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	WERE	'BPU - CITY OF MCPHERSON 115KV'	157,1294	-0.0018	-0.10497	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SWPA	'BULL SHOALS 161KV'	279.4	-0.0007	-0.10607	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SPS	'CAPROCK 115KV'	8	-0.00312	-0.10365	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SWPA	'CARTHAGE 69KV'	32	-0.00171	-0.10506	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	WERE	'CHANUTE 69KV'	55,637	-0.00196	-0.10481	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00213	-0.10464	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	WERE	'CITY OF BURLINGTON 69KV'	34,061	-0.00193	-0.10484	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	WERE	'CITY OF ERIE 69KV'	23,374	-0.00196	-0.10481	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	LEPA	'CITY OF HOUMA SUB 115KV'	84	-0.00107	-0.1057	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	WERE	'CITY OF IOLA 69KV'	24,471	-0.00192	-0.10485	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	WERE	'CITY OF MULVANE 69KV'	8.29	-0.00215	-0.10462	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	WERE	'CITY OF WINFIELD 69KV'	26.77	-0.00242	-0.10435	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SWPA	'CLARENCE CANNON DAM 69KV'	39.4	-0.00091	-0.10586	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	-0.00193	-0.10484	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	AEPW	'COGENTRIX 345KV'	300	-0.00256	-0.10421	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SPS	'CUNNINGHAM 115KV'	181	-0.00315	-0.10362	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SPS	'CUNNINGHAM 230KV'	306	-0.00315	-0.10362	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SPS	'CZ 69KV'	39	-0.00304	-0.10373	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	CELE	'D.G. HUNTER POWER STATION 138KV'	86,5168	-0.00123	-0.10554	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	EMDE	'ELK RIVER 345KV'	150	-0.00204	-0.10473	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	WERE	'ELK RIVER WIND 34KV'	100	-0.00204	-0.10473	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SWPA	'EUFAULA 138KV'	51	-0.00221	-0.10456	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SWPA	'EUFAULA 161KV'	69.8	-0.00221	-0.10456	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	CELE	'EVANGELINE 138KV'	141,4269	-0.00178	-0.10499	14

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

AEPW	'KNOXLEE 138KV'	320	-0.10677	CELE	'EVANGELINE 230KV'	173.6403	-0.0016	-0.10517	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.00217	-0.1046	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	AEPW	'FITZHUGH 161KV'	101	-0.00078	-0.10599	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	AEPW	'FLINT CREEK 161KV'	428	-0.00201	-0.10476	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	WERE	'GILL ENERGY CENTER 138KV'	171	-0.00216	-0.10461	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	WERE	'GILL ENERGY CENTER 69KV'	75	-0.00216	-0.10461	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	GRDA	'GRDA1 161KV'	190	-0.00218	-0.10459	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	GRDA	'GRDA1 345KV'	220	-0.00218	-0.10459	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SWPA	'GREERS FERRY 161KV'	93.6	0.00026	-0.10703	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SPS	'HARRINGTON 230KV'	1066	-0.00299	-0.10378	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SPS	'HUBRCO2 69KV'	11	-0.00299	-0.10378	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	-0.00182	-0.10495	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	-0.00182	-0.10495	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SWPA	'INDEPENDENCE 161KV'	13	0.00022	-0.10699	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	LEPA	'IRION SUB 230KV'	25	-0.00104	-0.10573	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.0017	-0.10507	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.0017	-0.10507	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SWPA	'JONESBORO 161KV'	43	0.00013	-0.1069	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SWPA	'KENNETT 69KV'	7.5	0	-0.10677	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	GRDA	'KERR 115KV'	13.5	-0.00216	-0.10461	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	GRDA	'KERR 161KV'	13.5	-0.00217	-0.1046	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SWPA	'KEYSTONE DAM 161KV'	150.6	-0.00254	-0.10423	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	AEPW	'L&D13 69KV'	11	-0.00115	-0.10562	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	EMDE	'LARUSSEL 161KV'	116	-0.00165	-0.10512	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	WERE	'LAWRENCE ENERGY CENTER 230KV'	231.5762	-0.00167	-0.1051	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SPS	'MADOX 115KV'	183	-0.00315	-0.10362	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SWPA	'MALDEN 69KV'	7	-0.00005	-0.10672	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	AEPW	'MATTISON 161KV'	320	-0.00198	-0.10479	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SPS	'MOORE COUNTY 115KV'	48	-0.00298	-0.10379	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	OKGE	'MUSKOGEE 161KV'	166	-0.0022	-0.10457	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	OKGE	'MUSKOGEE 345KV'	1516	-0.00248	-0.10429	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SPS	'MUSTANG 115KV'	300	-0.00315	-0.10362	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SPS	'MUSTANG 230KV'	360	-0.00315	-0.10362	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	CELE	'NATCHITOCHEES 69KV'	16,928.36	0.00134	-0.10811	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SPS	'NICHOLS 115KV'	147	-0.003	-0.10377	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SPS	'NICHOLS 230KV'	147	-0.00299	-0.10378	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	AEPW	'NORTHEASTERN STATION 138KV'	472	-0.00233	-0.10444	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00233	-0.10444	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	AEPIV	'OEC 345KV'	319	-0.00246	-0.10431	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	OMPA	'OMPA-KAW 69KV'	19.7	-0.00292	-0.10385	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	OMPA	'OMPA-PONCA CITY 69KV'	117.1716	-0.00292	-0.10385	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SWPA	'OZARK 161KV'	150.6	-0.00077	-0.106	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	EMDE	'OZARK BEACH 161KV'	16	-0.00124	-0.10553	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	GRDA	'PENSACOLA 161KV'	33	-0.00208	-0.10469	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	GRDA	'PENSACOLA 69KV'	29,804.57	-0.00208	-0.10469	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SPS	'PLANTX 115KV'	225,904.8	-0.00312	-0.10365	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SPS	'PLANTX 230KV'	189	-0.00312	-0.10365	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	AEPW	'RIVERSIDE STATION 138KV'	422	-0.00258	-0.10419	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	EMDE	'RIVERTON 161KV'	88,896.12	-0.00182	-0.10495	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	EMDE	'RIVERTON 69KV'	44,392.98	-0.00181	-0.10496	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SWPA	'ROBERT S. KERR 161KV'	314.8	-0.00139	-0.10538	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	CELE	'RODEMACHER 230KV'	651	-0.00104	-0.10573	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	GRDA	'SALINA 161KV'	26,504.88	-0.00217	-0.1046	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SPS	'SAN JUAN 230KV'	12	-0.00313	-0.10364	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SPS	'SIDRCH 69KV'	20	-0.00299	-0.10378	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SWPA	'SIKESTON 161KV'	235	-0.00014	-0.10663	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	OKGE	'SOONER 138KV'	505	-0.00306	-0.10371	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	EMDE	'STATE LINE 161KV'	503	-0.0018	-0.10497	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SPS	'STEER WATER 115KV'	8	-0.00302	-0.10375	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	CELE	'TECHE 138KV'	227,591.9	-0.00183	-0.10494	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00168	-0.10509	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SPS	'TOLK 230KV'	1027.49	-0.00313	-0.10364	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SWPA	'TRUMAN 161KV'	102	-0.00126	-0.10551	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	AEPW	'TULSA POWER STATION 138KV'	38	-0.00255	-0.10422	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	WERE	'WACO 138KV'	17,967	-0.00216	-0.10461	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SWPA	'WEBBERS FALLS 161KV'	39.2	-0.00208	-0.10469	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	AEPW	'WILKES 345KV'	191	-0.00102	-0.10575	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SPS	'WILWIND 230KV'	16	-0.00299	-0.10378	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	WFEC	'ANADARKO 138KV'	286,282.4	-0.00374	-0.10303	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	AEPW	'COMANCHE 138KV'	160	-0.00376	-0.10301	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	AEPW	'COMANCHE 69KV'	63	-0.00377	-0.103	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SWPA	'DENISON 138KV'	59,599.99	-0.00487	-0.1019	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	OKGE	'FPLWIND2 34KV'	102	-0.00331	-0.10346	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	OKGE	'HORSESHOE LAKE 138KV'	769,018.6	-0.0035	-0.10327	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	OKGE	'HORSESHOE LAKE 69KV'	16	-0.0035	-0.10327	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	WFEC	'HUGO 138KV'	450	-0.00747	-0.0993	15
AEPW	'KNOXLEE 138KV'	320	-0.10677	SPS	'JONES 230KV'	486	-0.0032	-0.10357	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SPS	'LP-BRND2 69KV'	20	-0.0032	-0.10357	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	SPS	'LP-MACK2 69KV'	60	-0.0032	-0.10357	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	OKGE	'MCCLAIN 138KV'	478	-0.00358	-0.10319	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	WFEC	'MORLND 138KV'	298,512	-0.00331	-0.10346	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	OKGE	'MUSTANG 138KV'	365.5	-0.00352	-0.10325	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	OKGE	'MUSTANG 69KV'	106	-0.00351	-0.10326	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	OKGE	'ONE OAK 345KV'	75	-0.00341	-0.10336	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	OKGE	'REDBUD 345KV'	100	-0.00338	-0.10339	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	OKGE	'SEMINOLE 138KV'	479,307.7	-0.00387	-0.1029	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	OKGE	'SEMINOLE 345KV'	996	-0.00388	-0.10289	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	WFEC	'SLEEPING BEAR 138KV'	80	-0.00331	-0.10346	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	OKGE	'SLEEPING BEAR 34KV'	120	-0.00332	-0.10345	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	OKGE	'SMITH COGEN 138KV'	120	-0.00353	-0.10324	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	OKGE	'SOONER 345KV'	513	-0.00318	-0.10359	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	AEPW	'SOUTHWESTERN STATION 138KV'	311	-0.00373	-0.10304	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	AEPW	'WEATHERFORD 34KV'	148	-0.0035	-0.10327	14
AEPW	'KNOXLEE 138KV'	320	-0.10677	AEPW	'WEELETKA 138KV'	84	-0.00334	-0.10343	14
AEPW	'TURK 138KV'	608	-0.01457	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.09938	15
AEPW	'FULTON 115KV'	32,999.99	-0.01101	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.09582	15
AEPW	'KNOXLEE 138KV'	320	-0.10677	SWPA	'BROKEN BOW 138KV'	93.6	-0.00947	-0.0973	15
AEPW	'KNOXLEE 138KV'	320	-0.10677	AEPW	'WELSH 345KV'	1044	-0.0081	-0.09867	15
SWPA	'BROKEN BOW 138KV'	16.4	-0.00947	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.09428	16
AEPW	'KNOXLEE 138KV'	320	-0.10677	AEPW	'NARROWS 69KV'	22	-0.0133	-0.09347	16
CELE	'ACADIA 138KV'	814,918.9	-0.0023	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08711	17
WFEC	'ANADARKO 138KV'	136	-0.00374	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08855	17
WFEC	'ANADARKO 69KV'	76	-0.00372	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08853	17

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

WFEC	'BLUE CANYON 138KV'	151.2	-0.00372	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08853	17
SPS	'CARLSBAD 69KV'	18	-0.00314	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08795	17
WERE	'CHANUTE 69KV'	32.163	-0.00196	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08677	17
WERE	'CITY OF AUGUSTA 69KV'	8.840999	-0.00213	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08694	17
WERE	'CITY OF BURLINGTON 69KV'	21.939	-0.00193	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08674	17
WERE	'CITY OF IOLA 69KV'	13.157	-0.00192	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08673	17
WERE	'CITY OF WINFIELD 69KV'	13.23	-0.00242	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08723	17
AEPW	'COGENTRIX 345KV'	594	-0.00256	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08737	17
OKGE	'CONTINENTAL EMPIRE 138KV'	32	-0.00306	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08787	17
SWPA	'DENISON 138KV'	10.40001	-0.00487	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08968	16
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SWPA	'GREERS FERRY 161KV'	93.6	0.00026	-0.08725	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SWPA	'INDEPENDENCE 161KV'	13	0.00022	-0.08721	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SWPA	'JONESBORO 161KV'	43	0.00013	-0.08712	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	CELE	'NATCHITOCHEES 69KV'	16.92836	0.00134	-0.08833	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SWPA	'SIKESTON 161KV'	235	-0.00014	-0.08685	17
SWPA	'EUFAULA 138KV'	9.000004	-0.00221	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08702	17
SWPA	'EUFAULA 161KV'	12.2	-0.00221	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08702	17
WERE	'EVANS ENERGY CENTER 138KV'	162	-0.00217	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08698	17
WERE	'GETTY 69KV'	35	-0.0021	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08691	17
WERE	'GILL ENERGY CENTER 138KV'	49	-0.00216	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08697	17
WERE	'GILL ENERGY CENTER 69KV'	8	-0.00216	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08697	17
OKGE	'HORSESHOE LAKE 138KV'	82.48141	-0.0035	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08831	17
GRDA	'KERR 115KV'	13.5	-0.00216	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08697	17
GRDA	'KERR 161KV'	28.5	-0.00217	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08698	17
SWPA	'KEYSTONE DAM 161KV'	49.60001	-0.00254	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08735	17
AEPW	'KIOWA 345KV'	1348	-0.00472	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08953	16
SPS	'LP-HOLL2 69KV'	132	-0.0032	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08801	17
SPS	'LP-MACK2 69KV'	20	-0.0032	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08801	17
SPS	'MADDOX 115KV'	10	-0.00315	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08796	17
AEPW	'MATTISON 161KV'	190	-0.00198	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08679	17
OKGE	'MCCLAIN 138KV'	42	-0.00358	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08839	17
AEPW	'MID-CONTINENT 138KV'	142.11	-0.00222	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08703	17
WFEC	'MORLND 138KV'	21.48804	-0.00331	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08812	17
OKGE	'MUSKOGEE 161KV'	31	-0.0022	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08701	17
OKGE	'MUSKOGEE 345KV'	20	-0.00248	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08729	17
SPS	'NICHOLS 115KV'	66.00001	-0.003	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08871	17
SPS	'NICHOLS 230KV'	97	-0.00299	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.0878	17
AEPW	'NORTHEASTERN STATION 138KV'	27.99997	-0.00233	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08714	17
AEPW	'OEC 345KV'	1828.03	-0.00246	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08727	17
OMPA	'OMPA-KAW 69KV'	10	-0.00292	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08773	17
OMPA	'OMPA-KINGFISHER BOWMAN 69KV'	8.5	-0.00335	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08816	17
OMPA	'OMPA-PONCA CITY 69KV'	89.66048	-0.00292	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08773	17
OKGE	'ONE OAK 345KV'	261	-0.00341	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08822	17
SPS	'PLANTX 115KV'	27.09521	-0.00312	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08793	17
OKGE	'RED ROCK 345KV'	1050	-0.00318	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08799	17
OKGE	'REDBUD 345KV'	1100	-0.00338	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08819	17
AEPW	'RIVER SIDE 138KV'	172	-0.00258	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08739	17
AEPW	'RIVERSIDE STATION 138KV'	300	-0.00258	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08739	17
SPS	'RIVERVIEW 69KV'	23	-0.00299	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.0878	17
GRDA	'SALINA 161KV'	71.49512	-0.00217	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08698	17
OKGE	'SEMINOLE 138KV'	25.69232	-0.00387	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08868	17
OKGE	'SOONER 138KV'	24.99997	-0.00306	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08787	17
OKGE	'SOUTH 4TH ST 69KV'	42.7	-0.00313	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08794	17
AEPW	'SOUTHWESTERN STATION 138KV'	448	-0.00373	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08854	17
OKGE	'TINKER 5G 138KV'	62	-0.00361	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08842	17
SPS	'TOLK 230KV'	52.51041	-0.00313	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08794	17
SPS	'TUCUMCARI 115KV'	15	-0.00312	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08793	17
AEPW	'TULSA POWER STATION 138KV'	256	-0.00255	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08736	17
AEPW	'TULSA POWER STATION 69KV'	80	-0.00255	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08736	17
SWPA	'WEBBERS FALLS 161KV'	29.8	-0.00208	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08689	17
AEPW	'WEEETKA 138KV'	58	-0.00334	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08815	17
OKGE	'WOODWARD 24KV'	9.3	-0.00332	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08813	17
EMDE	'ASBURY 161KV'	20	-0.00179	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.0886	17
LEPA	'BAYOU RAMOS 138KV'	24.17589	-0.00153	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08834	17
SWPA	'BEAVER 161KV'	26.4357	-0.00163	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08844	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	16.87061	-0.0018	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08861	17
SWPA	'BULL SHOALS 161KV'	110.2	-0.0007	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08551	17
WERE	'CITY OF OSAGE CITY 115KV'	8.85	-0.00175	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08656	17
SWPA	'CLARENCE CANNON DAM 69KV'	8.599998	-0.00091	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08572	17
WERE	'CLAY CENTER JUNCTION 115KV'	38.1	-0.00174	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08655	17
CELE	'D.G. HUNTER POWER STATION 138KV'	39.7832	-0.00123	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08604	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00175	-0.08524	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	CELE	'ACADIA 138KV'	307.0811	-0.0023	-0.08469	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	OKGE	'AES 161KV'	320	-0.00111	-0.08588	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	EMDE	'ASBURY 161KV'	191	-0.00179	-0.0852	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	LEPA	'BAYOU RAMOS 138KV'	29.82431	-0.00153	-0.08546	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SWPA	'BEAVER 161KV'	139.1643	-0.00163	-0.08536	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SPS	'BLACKHAWK 115KV'	220	-0.00299	-0.084	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	GRDA	'BOOMER 69KV'	24	-0.00292	-0.08407	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	WERE	'BPU - CITY OF MCPHERSON 115KV'	157.1294	-0.0018	-0.08519	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SWPA	'BULL SHOALS 161KV'	279.4	-0.0007	-0.08629	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SWPA	'CARTHAGE 69KV'	32	-0.00171	-0.08528	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	WERE	'CHANUTE 69KV'	55.637	-0.00196	-0.08503	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00213	-0.08486	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	WERE	'CITY OF BURLINGTON 69KV'	34.061	-0.00193	-0.08506	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	WERE	'CITY OF ERIE 69KV'	23.374	-0.00196	-0.08503	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	LEPA	'CITY OF HOUMA SUB 115KV'	84	-0.00107	-0.08592	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	WERE	'CITY OF IOLA 69KV'	24.471	-0.00192	-0.08507	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	WERE	'CITY OF WINFIELD 69KV'	26.77	-0.00242	-0.08457	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SWPA	'CLARENCE CANNON DAM 69KV'	39.4	-0.00091	-0.08608	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	-0.00193	-0.08506	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	AEPW	'COGENTRIX 345KV'	300	-0.00256	-0.08443	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SPS	'CUNNINGHAM 115KV'	181	-0.00315	-0.08384	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SPS	'CUNNINGHAM 230KV'	306	-0.00315	-0.08384	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SPS	'CZ 69KV'	39	-0.00304	-0.08395	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	CELE	'D.G. HUNTER POWER STATION 138KV'	86.5168	-0.00123	-0.08576	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	EMDE	'ELK RIVER 345KV'	150	-0.00204	-0.08495	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	WERE	'ELK RIVER WIND 34KV'	100	-0.00204	-0.08495	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SWPA	'EUFAULA 138KV'	51	-0.00221	-0.08478	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SWPA	'EUFAULA 161KV'	69.8	-0.00221	-0.08478	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	CELE	'EVANGELINE 138KV'	141.4269	-0.00178	-0.08521	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	CELE	'EVANGELINE 230KV'	173.6403	-0.0016	-0.08539	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.00217	-0.08482	17

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

AEPW	'EASTMAN 138KV'	130.01	-0.08699	AEPW	'FITZHUGH 161KV'	101	-0.00078	-0.08621	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	AEPW	'FLINT CREEK 161KV'	428	-0.00201	-0.08498	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	OKGE	'FPLWIND2 34KV'	102	-0.00331	-0.08368	18
AEPW	'EASTMAN 138KV'	130.01	-0.08699	WERE	'GILL ENERGY CENTER 138KV'	171	-0.00216	-0.08483	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	WERE	'GILL ENERGY CENTER 69KV'	75	-0.00216	-0.08483	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	GRDA	'GRDA1 161KV'	190	-0.00218	-0.08481	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	GRDA	'GRDA1 345KV'	220	-0.00218	-0.08481	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SPS	'HARRINGTON 230KV'	1066	-0.00299	-0.084	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	OKGE	'HORSESHOE LAKE 138KV'	769.0186	-0.0035	-0.08349	18
AEPW	'EASTMAN 138KV'	130.01	-0.08699	OKGE	'HORSESHOE LAKE 69KV'	16	-0.0035	-0.08349	18
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SPS	'HUBCO2 69KV'	11	-0.00299	-0.084	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	-0.00182	-0.08517	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	-0.00182	-0.08517	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	LEPA	'IRION SUB 230KV'	25	-0.00104	-0.08595	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.0017	-0.08529	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.0017	-0.08529	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SPS	'JONES 230KV'	486	-0.0032	-0.08379	18
AEPW	'EASTMAN 138KV'	130.01	-0.08699	GRDA	'KERR 115KV'	13.5	-0.00216	-0.08483	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	GRDA	'KERR 161KV'	13.5	-0.00217	-0.08482	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SWPA	'KEYSTONE DAM 161KV'	150.6	-0.00254	-0.08445	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	AEPW	'L&D13 69KV'	11	-0.00115	-0.08584	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	EMDE	'LARUSSEL 161KV'	116	-0.00165	-0.08534	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	WERE	'LAWRENCE ENERGY CENTER 230KV'	231.5762	-0.00167	-0.08532	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SPS	'LP-BRND2 69KV'	20	-0.0032	-0.08379	18
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SPS	'LP-MACK2 69KV'	60	-0.0032	-0.08379	18
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SPS	'MADOX 115KV'	183	-0.00315	-0.08384	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	AEPW	'MATTISON 161KV'	320	-0.00198	-0.08501	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	OKGE	'MCCLAIN 138KV'	478	-0.00358	-0.08341	18
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SPS	'MOORE COUNTY 115KV'	48	-0.00298	-0.08401	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	WFEC	'MORLND 138KV'	298.512	-0.00331	-0.08368	18
AEPW	'EASTMAN 138KV'	130.01	-0.08699	OKGE	'MUSKOGEE 161KV'	166	-0.0022	-0.08479	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	OKGE	'MUSKOGEE 345KV'	1516	-0.00248	-0.08451	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SPS	'MUSTANG 115KV'	300	-0.00315	-0.08384	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	OKGE	'MUSTANG 138KV'	365.5	-0.00352	-0.08347	18
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SPS	'MUSTANG 230KV'	360	-0.00315	-0.08384	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	OKGE	'MUSTANG 69KV'	106	-0.00351	-0.08348	18
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SPS	'NICHOLS 115KV'	147	-0.003	-0.08399	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SPS	'NICHOLS 230KV'	147	-0.00299	-0.084	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	AEPW	'NORTHEASTERN STATION 138KV'	472	-0.00233	-0.08466	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00233	-0.08466	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	AEPW	'OEC 345KV'	319	-0.00246	-0.08453	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	OMPA	'OMPA-KAW 69KV'	19.7	-0.00292	-0.08407	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	OMPA	'OMPA-PONCA CITY 69KV'	117.1716	-0.00292	-0.08407	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	OKGE	'ONE OAK 345KV'	75	-0.00341	-0.08358	18
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SWPA	'OZARK 161KV'	150.6	-0.00077	-0.08622	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	EMDE	'OZARK BEACH 161KV'	16	-0.00124	-0.08575	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	GRDA	'PENSACOLA 161KV'	33	-0.00208	-0.08491	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	GRDA	'PENSACOLA 69KV'	29.80457	-0.00208	-0.08491	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SPS	'PLANTX 115KV'	225.9048	-0.00312	-0.08387	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SPS	'PLANTX 230KV'	189	-0.00312	-0.08387	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	OKGE	'REDBUD 345KV'	100	-0.00338	-0.08361	18
AEPW	'EASTMAN 138KV'	130.01	-0.08699	AEPW	'RIVERSIDE STATION 138KV'	422	-0.00258	-0.08441	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	EMDE	'RIVERTON 161KV'	88.89612	-0.00182	-0.08517	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	EMDE	'RIVERTON 69KV'	44.39298	-0.00181	-0.08518	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SWPA	'ROBERT S. KERR 161KV'	314.8	-0.00139	-0.0856	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	CELE	'RODEMACHER 230KV'	651	-0.00104	-0.08595	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	GRDA	'SALINA 161KV'	26.50488	-0.00217	-0.08482	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SPS	'SAN JUAN 230KV'	12	-0.00313	-0.08386	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SPS	'SIDRCH 69KV'	20	-0.00299	-0.084	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	WFEC	'SLEEPING BEAR 138KV'	80	-0.00331	-0.08368	18
AEPW	'EASTMAN 138KV'	130.01	-0.08699	OKGE	'SLEEPING BEAR 34KV'	120	-0.00332	-0.08367	18
AEPW	'EASTMAN 138KV'	130.01	-0.08699	OKGE	'SMITH COGEN 138KV'	120	-0.00353	-0.08346	18
AEPW	'EASTMAN 138KV'	130.01	-0.08699	OKGE	'SOONER 138KV'	505	-0.00306	-0.08393	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	OKGE	'SOONER 345KV'	513	-0.00318	-0.08381	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	EMDE	'STATE LINE 161KV'	503	-0.0018	-0.08519	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	CELE	'TECHE 138KV'	227.5919	-0.00183	-0.08516	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00168	-0.08531	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SPS	'TOLK 230KV'	1027.49	-0.00313	-0.08386	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SWPA	'TRUMAN 161KV'	102	-0.00126	-0.08573	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	AEPW	'TULSA POWER STATION 138KV'	38	-0.00255	-0.08444	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	WERE	'WACO 138KV'	17.967	-0.00216	-0.08483	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	AEPW	'WEATHERFORD 34KV'	148	-0.0035	-0.08349	18
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SWPA	'WEBBERS FALLS 161KV'	39.2	-0.00208	-0.08491	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	AEPW	'WEELETKA 138KV'	84	-0.00334	-0.08365	18
AEPW	'EASTMAN 138KV'	130.01	-0.08699	AEPW	'WILKES 345KV'	191	-0.00102	-0.08597	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SPS	'WILWIND 230KV'	16	-0.00299	-0.084	17
WERE	'EMPORIA 345KV'	828	-0.00181	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08662	17
CELE	'EVANGELINE 138KV'	170.5731	-0.00178	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08659	17
CELE	'EVANGELINE 230KV'	251.3597	-0.0016	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08641	17
AEPW	'FITZHUGH 161KV'	25.00001	-0.00078	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08559	17
SWPA	'GREERS FERRY 161KV'	16.4	0.00026	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08455	17
WERE	'HOLTON 115KV'	19.8	-0.00162	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08643	17
WERE	'HUTCHINSON ENERGY CENTER 115KV'	141	-0.00182	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08663	17
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	-0.00182	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08663	17
LEPA	'IRION SUB 230KV'	19	-0.00104	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08585	17
WERE	'JEFFREY ENERGY CENTER 230KV'	24	-0.0017	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08651	17
WERE	'JEFFREY ENERGY CENTER 345KV'	42	-0.0017	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08651	17
SWPA	'JONESBORO 161KV'	20	0.00013	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08468	17
SWPA	'KENNETT 69KV'	21.5	0	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08481	17
AEPW	'L&D13 69KV'	13	-0.00115	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08596	17
EMDE	'LARUSSEL 161KV'	180	-0.00165	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08646	17
WERE	'LAWRENCE ENERGY CENTER 230KV'	37.42383	-0.00167	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08648	17
SWPA	'MALDEN 69KV'	10	-0.00005	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08486	17
CELE	'NATCHITOCHEES 69KV'	19.69664	0.00134	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08347	18
SWPA	'OZARK 161KV'	44.9	-0.00077	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08558	17
SWPA	'PARAGOULD 69KV'	12	0.00007	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08474	17
SWPA	'POPLAR BLUFF 69KV'	13	-0.00019	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.085	17
EMDE	'RIVERTON 161KV'	233.1039	-0.00182	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08663	17
EMDE	'RIVERTON 69KV'	23.60701	-0.00181	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08662	17
SWPA	'ROBERT S. KERR 161KV'	73.90001	-0.00139	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.0862	17
CELE	'RODEMACHER 230KV'	66	-0.00104	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08585	17
WERE	'SOUTH SENECA 115KV'	16.7	-0.00158	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08639	17
EMDE	'STATE LINE 161KV'	103	-0.0018	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08661	17

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

CELE	'TECHE 138KV'	94.40805	-0.00183	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08664	17
CELE	'TECHE 34KV'	23	-0.00183	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08664	17
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.00168	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08649	17
SWPA	'TRUMAN 161KV'	78.00002	-0.00126	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08607	17
AEPW	'WILKES 345KV'	120	-0.00102	CELE	'DOLET HILLS 345KV'	360	0.08481	-0.08583	17
AEPW	'EASTMAN 138KV'	130.01	-0.08699	WFEC	'ANADARKO 138KV'	286.2824	-0.00374	-0.08325	18
AEPW	'EASTMAN 138KV'	130.01	-0.08699	AEPW	'COMANCHE 138KV'	160	-0.00376	-0.08323	18
AEPW	'EASTMAN 138KV'	130.01	-0.08699	AEPW	'COMANCHE 69KV'	63	-0.00377	-0.08322	18
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SWPA	'DENISON 138KV'	59.59999	-0.00487	-0.08212	18
AEPW	'EASTMAN 138KV'	130.01	-0.08699	OKGE	'SEMINOLE 138KV'	479.3077	-0.00387	-0.08312	18
AEPW	'EASTMAN 138KV'	130.01	-0.08699	OKGE	'SEMINOLE 345KV'	996	-0.00388	-0.08311	18
AEPW	'EASTMAN 138KV'	130.01	-0.08699	AEPW	'SOUTHWESTERN STATION 138KV'	311	-0.00373	-0.08326	18
AEPW	'EASTMAN 138KV'	130.01	-0.08699	SWPA	'BROKEN BOW 138KV'	93.6	-0.00947	-0.07752	19
AEPW	'EASTMAN 138KV'	130.01	-0.08699	WFEC	'HUGO 138KV'	450	-0.00747	-0.07952	18
AEPW	'EASTMAN 138KV'	130.01	-0.08699	AEPW	'WELSH 345KV'	1044	-0.0081	-0.07899	19
AEPW	'KNOXLEE 138KV'	320	-0.10677	AEPW	'WILKES 138KV'	136.7419	-0.02958	-0.07719	19
AEPW	'EASTMAN 138KV'	130.01	-0.08699	AEPW	'NARROWS 69KV'	22	-0.0133	-0.07369	20
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	CELE	'NATCHITOCHE 69KV'	16.92836	0.00134	-0.07045	21
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	OKGE	'AES 161KV'	320	-0.00111	-0.068	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	LEPA	'BAYOU RAMOS 138KV'	29.82431	-0.00153	-0.06758	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SWPA	'BEAVER 161KV'	139.1643	-0.00163	-0.06748	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SWPA	'BULL SHOALS 161KV'	279.4	-0.0007	-0.06841	21
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	LEPA	'CITY OF HOUMA SUB 115KV'	84	-0.00107	-0.06804	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SWPA	'CLARENCE CANNON DAM 69KV'	39.4	-0.00091	-0.0682	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	CELE	'D.G. HUNTER POWER STATION 138KV'	86.5168	-0.00123	-0.06788	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	CELE	'EVANGELINE 230KV'	173.6403	-0.0016	-0.06751	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	AEPW	'FITZHUGH 161KV'	101	-0.00078	-0.06833	21
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SWPA	'GREERS FERRY 161KV'	93.6	0.00026	-0.06937	21
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SWPA	'INDEPENDENCE 161KV'	13	0.00022	-0.06933	21
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	LEPA	'IRION SUB 230KV'	25	-0.00104	-0.06807	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SWPA	'JONESBORO 161KV'	43	0.00013	-0.06924	21
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	AEPW	'LD13 69KV'	11	-0.00115	-0.06796	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	EMDE	'LARUSSEL 161KV'	116	-0.00165	-0.06746	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	WERE	'LAWRENCE ENERGY CENTER 230KV'	231.5762	-0.00167	-0.06744	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SWPA	'OZARK 161KV'	150.6	-0.00077	-0.06834	21
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	EMDE	'OZARK BEACH 161KV'	16	-0.00124	-0.06787	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SWPA	'ROBERT S. KERR 161KV'	314.8	-0.00139	-0.06772	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	CELE	'RODEMACHER 230KV'	651	-0.00104	-0.06807	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SWPA	'SIKESTON 161KV'	235	-0.00014	-0.06897	21
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00168	-0.06743	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SWPA	'TRUMAN 161KV'	102	-0.00126	-0.06785	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	AEPW	'WILKES 345KV'	191	-0.00102	-0.06809	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00175	-0.06736	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	CELE	'ACADIA 138KV'	307.0811	-0.0023	-0.06681	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	WFEC	'ANADARKO 138KV'	286.2824	-0.00374	-0.06537	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	EMDE	'ASBURY 161KV'	191	-0.00179	-0.06732	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SPS	'BLACKHAWK 115KV'	220	-0.00299	-0.06612	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	GRDA	'BOOMER 69KV'	24	-0.00292	-0.06619	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	WERE	'BPU - CITY OF MCPHERSON 115KV'	157.1294	-0.0018	-0.06731	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SWPA	'CARTHAGE 69KV'	32	-0.00171	-0.0674	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	WERE	'CHANUTE 69KV'	55.637	-0.00196	-0.06715	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00213	-0.06698	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	WERE	'CITY OF BURLINGTON 69KV'	34.061	-0.00193	-0.06718	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	WERE	'CITY OF ERIE 69KV'	23.374	-0.00196	-0.06715	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	WERE	'CITY OF IOLA 69KV'	24.471	-0.00192	-0.06719	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	WERE	'CITY OF WINFIELD 69KV'	26.77	-0.00242	-0.06669	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	-0.00193	-0.06718	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	AEPW	'COGENTRIX 345KV'	300	-0.00256	-0.06655	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	AEPW	'COMANCHE 138KV'	160	-0.00376	-0.06535	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SPS	'CUNNINGHAM 115KV'	181	-0.00315	-0.06596	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SPS	'CUNNINGHAM 230KV'	306	-0.00315	-0.06596	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SPS	'CZ 69KV'	39	-0.00304	-0.06607	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	EMDE	'ELK RIVER 345KV'	150	-0.00204	-0.06707	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	WERE	'ELK RIVER WIND 34KV'	100	-0.00204	-0.06707	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SWPA	'EUFAULA 138KV'	51	-0.00221	-0.0669	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SWPA	'EUFAULA 161KV'	69.8	-0.00221	-0.0669	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	CELE	'EVANGELINE 138KV'	141.4269	-0.00178	-0.06733	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.00217	-0.06694	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	AEPW	'FLINT CREEK 161KV'	428	-0.00201	-0.0671	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	OKGE	'FPLWIND2 34KV'	102	-0.00331	-0.0658	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	WERE	'GILL ENERGY CENTER 138KV'	171	-0.00216	-0.06695	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	WERE	'GILL ENERGY CENTER 69KV'	75	-0.00216	-0.06695	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	GRDA	'GRDA1 161KV'	190	-0.00218	-0.06693	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	GRDA	'GRDA1 345KV'	220	-0.00218	-0.06693	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SPS	'HARRINGTON 230KV'	1066	-0.00299	-0.06612	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	OKGE	'HORSESHOE LAKE 138KV'	769.0186	-0.0035	-0.06561	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	OKGE	'HORSESHOE LAKE 69KV'	16	-0.0035	-0.06561	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SPS	'HUBRCO2 69KV'	11	-0.00299	-0.06612	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	-0.00182	-0.06729	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	-0.00182	-0.06729	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.0017	-0.06741	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.0017	-0.06741	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SPS	'JONES 230KV'	486	-0.0032	-0.06591	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	GRDA	'KERR 115KV'	13.5	-0.00216	-0.06695	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	GRDA	'KERR 161KV'	13.5	-0.00217	-0.06694	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SWPA	'KEYSTONE DAM 161KV'	150.6	-0.00254	-0.06657	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SPS	'LP-BRND2 69KV'	20	-0.0032	-0.06591	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SPS	'LP-MACK2 69KV'	60	-0.0032	-0.06591	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SPS	'MADOX 115KV'	183	-0.00315	-0.06596	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	AEPW	'MATTISON 161KV'	320	-0.00198	-0.06713	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	OKGE	'MCCLAIN 138KV'	478	-0.00358	-0.06553	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SPS	'MOORE COUNTY 115KV'	48	-0.00298	-0.06613	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	WFEC	'MORLAND 138KV'	298.512	-0.00331	-0.0658	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	OKGE	'MUSKOGEE 161KV'	166	-0.0022	-0.06691	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	OKGE	'MUSKOGEE 345KV'	1516	-0.00248	-0.06663	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SPS	'MUSTANG 115KV'	300	-0.00315	-0.06596	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	OKGE	'MUSTANG 138KV'	365.5	-0.00352	-0.06559	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SPS	'MUSTANG 230KV'	360	-0.00315	-0.06596	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	OKGE	'MUSTANG 69KV'	106	-0.00351	-0.0656	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SPS	'NICHOLS 115KV'	147	-0.003	-0.06611	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SPS	'NICHOLS 230KV'	147	-0.00299	-0.06612	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	AEPW	'NORTHEASTERN STATION 138KV'	472	-0.00233	-0.06678	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00233	-0.06678	22

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

AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	AEPW	'OEC 345KV'	319	-0.00246	-0.06665	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	OMPA	'OMPA-KAW 69KV'	19.7	-0.00292	-0.06619	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	OMPA	'OMPA-PONCA CITY 69KV'	117.1716	-0.00292	-0.06619	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	OKGE	'ONE OAK 345KV'	75	-0.00341	-0.0657	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	GRDA	'PENSACOLA 161KV'	33	-0.00208	-0.06703	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	GRDA	'PENSACOLA 69KV'	29.80457	-0.00208	-0.06703	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SPS	'PLANTX 115KV'	225.9048	-0.00312	-0.06599	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SPS	'PLANTX 230KV'	189	-0.00312	-0.06599	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	OKGE	'REDBUD 345KV'	100	-0.00338	-0.06573	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	AEPW	'RIVERSIDE STATION 138KV'	422	-0.00258	-0.06653	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	EMDE	'RIVERTON 161KV'	88.89612	-0.00182	-0.06729	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	EMDE	'RIVERTON 69KV'	44.39298	-0.00181	-0.0673	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	GRDA	'SALINA 161KV'	26.50488	-0.00217	-0.06694	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SPS	'SAN JUAN 230KV'	12	-0.00313	-0.06598	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SPS	'SIDRCH 69KV'	20	-0.00299	-0.06612	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	WFEC	'SLEEPING BEAR 138KV'	80	-0.00331	-0.0658	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	OKGE	'SLEEPING BEAR 34KV'	120	-0.00332	-0.06579	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	OKGE	'SMITH COGEN 138KV'	120	-0.00353	-0.06558	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	OKGE	'SOONER 138KV'	505	-0.00306	-0.06605	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	OKGE	'SOONER 345KV'	513	-0.00318	-0.06593	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	AEPW	'SOUTHWESTERN STATION 138KV'	311	-0.00373	-0.06538	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	EMDE	'STATE LINE 161KV'	503	-0.0018	-0.06731	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	CELE	'TECHE 138KV'	227.5919	-0.00183	-0.06728	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SPS	'TOLK 230KV'	1027.49	-0.00313	-0.06598	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	AEPW	'TULSA POWER STATION 138KV'	38	-0.00255	-0.06656	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	WERE	'WACO 138KV'	17.967	-0.00216	-0.06695	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	AEPW	'WEATHERFORD 34KV'	148	-0.0035	-0.06561	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SWPA	'WEBBERS FALLS 161KV'	39.2	-0.00208	-0.06703	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	AEPW	'WEELETKA 138KV'	84	-0.00334	-0.06577	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SPS	'WILWIND 230KV'	16	-0.00299	-0.06612	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	AEPW	'COMANCHE 69KV'	63	-0.00377	-0.06534	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SWPA	'DENISON 138KV'	59.59999	-0.00487	-0.06424	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	OKGE	'SEMINOLE 138KV'	479.3077	-0.00387	-0.06524	23
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	OKGE	'SEMINOLE 345KV'	996	-0.00388	-0.06523	22
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	WFEC	'HUGO 138KV'	450	-0.00747	-0.06164	24
AEPW	'KNOXLEE 138KV'	320	-0.10677	AEPW	'LEBROCK 345KV'	465	-0.04556	-0.06121	24
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	AEPW	'WELSH 345KV'	1044	-0.0081	-0.06101	24
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	SWPA	'BROKEN BOW 138KV'	93.6	-0.00947	-0.05964	25
AEPW	'EASTMAN 138KV'	130.01	-0.08699	AEPW	'WILKES 138KV'	136.7419	-0.02958	-0.05741	26
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	AEPW	'NARROWS 69KV'	22	-0.0133	-0.05581	26
AEPW	'LEBROCK 345KV'	232	-0.04556	CELE	'NATCHITOCHE 69KV'	16.92836	0.00134	-0.0469	31
AEPW	'LEBROCK 345KV'	232	-0.04556	SWPA	'GREERS FERRY 161KV'	93.6	0.00026	-0.04582	32
AEPW	'LEBROCK 345KV'	232	-0.04556	SWPA	'JONESBORO 161KV'	43	0.00013	-0.04569	32
AEPW	'LEBROCK 345KV'	232	-0.04556	SWPA	'BULL SHOALS 161KV'	279.4	-0.0007	-0.04486	33
AEPW	'LEBROCK 345KV'	232	-0.04556	AEPW	'FITZHUGH 161KV'	101	-0.00078	-0.04478	33
AEPW	'LEBROCK 345KV'	232	-0.04556	SWPA	'OZARK 161KV'	150.6	-0.00077	-0.04479	33
AEPW	'LEBROCK 345KV'	232	-0.04556	SWPA	'SIKESTON 161KV'	235	-0.00014	-0.04542	32
AEPW	'LEBROCK 345KV'	232	-0.04556	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00175	-0.04381	33
AEPW	'LEBROCK 345KV'	232	-0.04556	OKGE	'AES 161KV'	320	-0.00111	-0.04445	33
AEPW	'LEBROCK 345KV'	232	-0.04556	LEPA	'BAYOU RAMOS 138KV'	29.82431	-0.00153	-0.04403	33
AEPW	'LEBROCK 345KV'	232	-0.04556	SWPA	'BEAVER 161KV'	139.1643	-0.00163	-0.04393	33
AEPW	'LEBROCK 345KV'	232	-0.04556	SWPA	'CARTHAGE 69KV'	32	-0.00171	-0.04385	33
AEPW	'LEBROCK 345KV'	232	-0.04556	LEPA	'CITY OF HOUMA SUB 115KV'	84	-0.00107	-0.04449	33
AEPW	'LEBROCK 345KV'	232	-0.04556	SWPA	'CLARENCE CANNON DAM 69KV'	39.4	-0.00091	-0.04465	33
AEPW	'LEBROCK 345KV'	232	-0.04556	CELE	'D.G. HUNTER POWER STATION 138KV'	86.5168	-0.00123	-0.04433	33
AEPW	'LEBROCK 345KV'	232	-0.04556	CELE	'EVANGELINE 230KV'	173.6403	-0.0016	-0.04396	33
AEPW	'LEBROCK 345KV'	232	-0.04556	LEPA	'IRION SUB 230KV'	25	-0.00104	-0.04452	33
AEPW	'LEBROCK 345KV'	232	-0.04556	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.0017	-0.04386	33
AEPW	'LEBROCK 345KV'	232	-0.04556	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.0017	-0.04386	33
AEPW	'LEBROCK 345KV'	232	-0.04556	EMDE	'LARUSSEL 161KV'	116	-0.00165	-0.04391	33
AEPW	'LEBROCK 345KV'	232	-0.04556	WERE	'LAWRENCE ENERGY CENTER 230KV'	231.5762	-0.00167	-0.04389	33
AEPW	'LEBROCK 345KV'	232	-0.04556	EMDE	'OZARK BEACH 161KV'	16	-0.00124	-0.04432	33
AEPW	'LEBROCK 345KV'	232	-0.04556	SWPA	'ROBERT S. KERR 161KV'	314.8	-0.00139	-0.04417	33
AEPW	'LEBROCK 345KV'	232	-0.04556	CELE	'RODEMACHER 230KV'	651	-0.00104	-0.04452	33
AEPW	'LEBROCK 345KV'	232	-0.04556	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00168	-0.04388	33
AEPW	'LEBROCK 345KV'	232	-0.04556	SWPA	'TRUMAN 161KV'	102	-0.00126	-0.0443	33
AEPW	'LEBROCK 345KV'	232	-0.04556	AEPW	'WILKES 345KV'	191	-0.00102	-0.04454	33
AEPW	'LEBROCK 345KV'	232	-0.04556	CELE	'ACADIA 138KV'	307.0811	-0.0023	-0.04326	34
AEPW	'LEBROCK 345KV'	232	-0.04556	EMDE	'ASBURY 161KV'	191	-0.00179	-0.04377	34
AEPW	'LEBROCK 345KV'	232	-0.04556	WERE	'BPU - CITY OF MCPHERSON 115KV'	157.1294	-0.0018	-0.04376	34
AEPW	'LEBROCK 345KV'	232	-0.04556	WERE	'CHANUTE 69KV'	55.637	-0.00196	-0.0436	34
AEPW	'LEBROCK 345KV'	232	-0.04556	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00213	-0.04343	34
AEPW	'LEBROCK 345KV'	232	-0.04556	WERE	'CITY OF BURLINGTON 69KV'	34.061	-0.00193	-0.04363	34
AEPW	'LEBROCK 345KV'	232	-0.04556	WERE	'CITY OF ERIE 69KV'	23.374	-0.00196	-0.0436	34
AEPW	'LEBROCK 345KV'	232	-0.04556	WERE	'CITY OF IOLA 69KV'	24.471	-0.00192	-0.04364	34
AEPW	'LEBROCK 345KV'	232	-0.04556	WERE	'CITY OF WINFIELD 69KV'	26.77	-0.00242	-0.04314	34
AEPW	'LEBROCK 345KV'	232	-0.04556	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	-0.00193	-0.04363	34
AEPW	'LEBROCK 345KV'	232	-0.04556	AEPW	'COGENTRIX 345KV'	300	-0.00256	-0.043	34
AEPW	'LEBROCK 345KV'	232	-0.04556	EMDE	'ELK RIVER 345KV'	150	-0.00204	-0.04352	34
AEPW	'LEBROCK 345KV'	232	-0.04556	WERE	'ELK RIVER WIND 34KV'	100	-0.00204	-0.04352	34
AEPW	'LEBROCK 345KV'	232	-0.04556	SWPA	'EUFAULA 138KV'	51	-0.00221	-0.04335	34
AEPW	'LEBROCK 345KV'	232	-0.04556	SWPA	'EUFAULA 161KV'	69.8	-0.00221	-0.04335	34
AEPW	'LEBROCK 345KV'	232	-0.04556	CELE	'EVANGELINE 138KV'	141.4269	-0.00178	-0.04378	33
AEPW	'LEBROCK 345KV'	232	-0.04556	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.00217	-0.04339	34
AEPW	'LEBROCK 345KV'	232	-0.04556	AEPW	'FLINT CREEK 181KV'	428	-0.00201	-0.04355	34
AEPW	'LEBROCK 345KV'	232	-0.04556	WERE	'GILL ENERGY CENTER 138KV'	171	-0.00216	-0.0434	34
AEPW	'LEBROCK 345KV'	232	-0.04556	WERE	'GILL ENERGY CENTER 69KV'	75	-0.00216	-0.0434	34
AEPW	'LEBROCK 345KV'	232	-0.04556	GRDA	'GRDA1 161KV'	190	-0.00218	-0.04338	34
AEPW	'LEBROCK 345KV'	232	-0.04556	GRDA	'GRDA1 345KV'	220	-0.00218	-0.04338	34
AEPW	'LEBROCK 345KV'	232	-0.04556	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	-0.00182	-0.04374	34
AEPW	'LEBROCK 345KV'	232	-0.04556	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	-0.00182	-0.04374	34
AEPW	'LEBROCK 345KV'	232	-0.04556	SWPA	'KEYSTONE DAM 161KV'	150.6	-0.00254	-0.04302	34
AEPW	'LEBROCK 345KV'	232	-0.04556	AEPW	'MATTISON 161KV'	320	-0.00198	-0.04358	34
AEPW	'LEBROCK 345KV'	232	-0.04556	OKGE	'MUSKOGEE 161KV'	166	-0.0022	-0.04336	34
AEPW	'LEBROCK 345KV'	232	-0.04556	OKGE	'MUSKOGEE 345KV'	1516	-0.00248	-0.04308	34
AEPW	'LEBROCK 345KV'	232	-0.04556	AEPW	'NORTHEASTERN STATION 138KV'	472	-0.00233	-0.04323	34
AEPW	'LEBROCK 345KV'	232	-0.04556	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00233	-0.04323	34
AEPW	'LEBROCK 345KV'	232	-0.04556	AEPW	'OEC 345KV'	319	-0.00246	-0.0431	34
AEPW	'LEBROCK 345KV'	232	-0.04556	GRDA	'PENSACOLA 161KV'	33	-0.00208	-0.04348	34
AEPW	'LEBROCK 345KV'	232	-0.04556	GRDA	'PENSACOLA 69KV'	29.80457	-0.00208	-0.04348	34
AEPW	'LEBROCK 345KV'	232	-0.04556	AEPW	'RIVERSIDE STATION 138KV'	422	-0.00258	-0.04298	34
AEPW	'LEBROCK 345KV'	232	-0.04556	EMDE	'RIVERTON 161KV'	88.89612	-0.00182	-0.04374	34
AEPW	'LEBROCK 345KV'	232	-0.04556	EMDE	'RIVERTON 69KV'	44.39298	-0.00181	-0.04375	34

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

AEPW	'LEBROCK 345KV'	232	-0.04556	GRDA	'SALINA 161KV'	26.50488	-0.00217	-0.04339	34
AEPW	'LEBROCK 345KV'	232	-0.04556	EMDE	'STATE LINE 161KV'	503	-0.0018	-0.04376	34
AEPW	'LEBROCK 345KV'	232	-0.04556	CELE	'TECHE 138KV'	227.5919	-0.00183	-0.04373	34
AEPW	'LEBROCK 345KV'	232	-0.04556	AEPW	'TULSA POWER STATION 138KV'	38	-0.00255	-0.04301	34
AEPW	'LEBROCK 345KV'	232	-0.04556	WERE	'WACO 138KV'	17.967	-0.00216	-0.0434	34
AEPW	'LEBROCK 345KV'	232	-0.04556	SWPA	'WEBBERS FALLS 161KV'	39.2	-0.00208	-0.04348	34
AEPW	'LEBROCK 345KV'	232	-0.04556	SPS	'BLACKHAWK 115KV'	220	-0.00299	-0.04257	34
AEPW	'LEBROCK 345KV'	232	-0.04556	GRDA	'BOOMER 69KV'	24	-0.00292	-0.04264	34
AEPW	'LEBROCK 345KV'	232	-0.04556	SPS	'CUNNINGHAM 115KV'	181	-0.00315	-0.04241	35
AEPW	'LEBROCK 345KV'	232	-0.04556	SPS	'CUNNINGHAM 230KV'	306	-0.00315	-0.04241	35
AEPW	'LEBROCK 345KV'	232	-0.04556	SPS	'CZ 69KV'	39	-0.00304	-0.04252	34
AEPW	'LEBROCK 345KV'	232	-0.04556	OKGE	'FPLWIND2 34KV'	102	-0.00331	-0.04225	35
AEPW	'LEBROCK 345KV'	232	-0.04556	SPS	'HARRINGTON 230KV'	1066	-0.00299	-0.04257	34
AEPW	'LEBROCK 345KV'	232	-0.04556	OKGE	'HORSESHOE LAKE 138KV'	769.0186	-0.0035	-0.04206	35
AEPW	'LEBROCK 345KV'	232	-0.04556	SPS	'JONES 230KV'	486	-0.0032	-0.04236	35
AEPW	'LEBROCK 345KV'	232	-0.04556	SPS	'LP-BRND2 69KV'	20	-0.0032	-0.04236	35
AEPW	'LEBROCK 345KV'	232	-0.04556	SPS	'LP-MACK2 69KV'	60	-0.0032	-0.04236	35
AEPW	'LEBROCK 345KV'	232	-0.04556	SPS	'MADOX 115KV'	183	-0.00315	-0.04241	35
AEPW	'LEBROCK 345KV'	232	-0.04556	SPS	'MOORE COUNTY 115KV'	48	-0.00298	-0.04258	34
AEPW	'LEBROCK 345KV'	232	-0.04556	WFEC	'MORLND 138KV'	298.512	-0.00331	-0.04225	35
AEPW	'LEBROCK 345KV'	232	-0.04556	SPS	'MUSTANG 115KV'	300	-0.00315	-0.04241	35
AEPW	'LEBROCK 345KV'	232	-0.04556	SPS	'MUSTANG 230KV'	360	-0.00315	-0.04241	35
AEPW	'LEBROCK 345KV'	232	-0.04556	SPS	'NICHOLS 115KV'	147	-0.003	-0.04256	34
AEPW	'LEBROCK 345KV'	232	-0.04556	SPS	'NICHOLS 230KV'	147	-0.00299	-0.04257	34
AEPW	'LEBROCK 345KV'	232	-0.04556	OMPA	'OMPA-KAW 69KV'	19.7	-0.00292	-0.04264	34
AEPW	'LEBROCK 345KV'	232	-0.04556	OMPA	'OMPA-PONCA CITY 69KV'	117.1716	-0.00292	-0.04264	34
AEPW	'LEBROCK 345KV'	232	-0.04556	OKGE	'ONE OAK 345KV'	75	-0.00341	-0.04215	35
AEPW	'LEBROCK 345KV'	232	-0.04556	SPS	'PLANTX 115KV'	225.9048	-0.00312	-0.04244	35
AEPW	'LEBROCK 345KV'	232	-0.04556	SPS	'PLANTX 230KV'	189	-0.00312	-0.04244	35
AEPW	'LEBROCK 345KV'	232	-0.04556	OKGE	'REDBUD 345KV'	100	-0.00338	-0.04218	35
AEPW	'LEBROCK 345KV'	232	-0.04556	SPS	'SIDRCH 69KV'	20	-0.00299	-0.04257	34
AEPW	'LEBROCK 345KV'	232	-0.04556	WFEC	'SLEEPING BEAR 138KV'	80	-0.00331	-0.04225	35
AEPW	'LEBROCK 345KV'	232	-0.04556	OKGE	'SLEEPING BEAR 34KV'	120	-0.00332	-0.04224	35
AEPW	'LEBROCK 345KV'	232	-0.04556	OKGE	'SOONER 138KV'	505	-0.00306	-0.0425	35
AEPW	'LEBROCK 345KV'	232	-0.04556	OKGE	'SOONER 345KV'	513	-0.00318	-0.04238	35
AEPW	'LEBROCK 345KV'	232	-0.04556	SPS	'TOLK 230KV'	1027.49	-0.00313	-0.04243	35
AEPW	'LEBROCK 345KV'	232	-0.04556	AEPW	'WEATHERFORD 34KV'	148	-0.0035	-0.04206	35
AEPW	'LEBROCK 345KV'	232	-0.04556	AEPW	'WELETKA 138KV'	84	-0.00334	-0.04222	35
AEPW	'EASTMAN 138KV'	130.01	-0.08699	AEPW	'LEBROCK 345KV'	465	-0.04556	-0.04143	35
AEPW	'LEBROCK 345KV'	232	-0.04556	WFEC	'ANADARKO 138KV'	286.2824	-0.00374	-0.04182	35
AEPW	'LEBROCK 345KV'	232	-0.04556	AEPW	'COMANCHE 138KV'	160	-0.00376	-0.0418	35
AEPW	'LEBROCK 345KV'	232	-0.04556	AEPW	'COMANCHE 69KV'	63	-0.00377	-0.04179	35
AEPW	'LEBROCK 345KV'	232	-0.04556	OKGE	'MCCLAIN 138KV'	478	-0.00358	-0.04198	35
AEPW	'LEBROCK 345KV'	232	-0.04556	OKGE	'MUSTANG 138KV'	365.5	-0.00352	-0.04204	35
AEPW	'LEBROCK 345KV'	232	-0.04556	OKGE	'MUSTANG 69KV'	106	-0.00351	-0.04205	35
AEPW	'LEBROCK 345KV'	232	-0.04556	OKGE	'SEMINOLE 138KV'	479.3077	-0.00387	-0.04169	35
AEPW	'LEBROCK 345KV'	232	-0.04556	OKGE	'SEMINOLE 345KV'	996	-0.00388	-0.04168	35
AEPW	'LEBROCK 345KV'	232	-0.04556	OKGE	'SMITH COGEN 138KV'	120	-0.00353	-0.04203	35
AEPW	'LEBROCK 345KV'	232	-0.04556	AEPW	'SOUTHWESTERN STATION 138KV'	311	-0.00373	-0.04183	35
AEPW	'LEBROCK 345KV'	232	-0.04556	SWPA	'DENISON 138KV'	59.59999	-0.00487	-0.04069	36
AEPW	'PIRKEY GENERATION 138KV'	25	-0.06911	AEPW	'WILKES 138KV'	136.7419	-0.02958	-0.03953	37
AEPW	'KNOXLEE 138KV'	320	-0.10677	AEPW	'PIRKEY GENERATION 138KV'	490	-0.06911	-0.03766	39
AEPW	'LEBROCK 345KV'	232	-0.04556	WFEC	'HUGO 138KV'	450	-0.00747	-0.03809	39
AEPW	'LEBROCK 345KV'	232	-0.04556	AEPW	'WELSH 345KV'	1044	-0.0081	-0.03746	39
AEPW	'LEBROCK 345KV'	232	-0.04556	SWPA	'BROKEN BOW 138KV'	93.6	-0.00947	-0.03609	41
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	SWPA	'GREERS FERRY 161KV'	93.6	-0.00226	-0.03274	45
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	SWPA	'JONESBORO 161KV'	43	0.00013	-0.03261	45
AEPW	'LEBROCK 345KV'	232	-0.04556	AEPW	'NARROWS 69KV'	22	-0.0133	-0.03226	45
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	SWPA	'SKESTON 161KV'	235	-0.00014	-0.03234	45
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	SWPA	'BULL SHOALS 161KV'	279.4	-0.0007	-0.03178	46
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	SWPA	'CLARENCE CANNON DAM 69KV'	39.4	-0.00091	-0.03157	46
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	AEPW	'FITZHUGH 161KV'	101	-0.00078	-0.0317	46
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	SWPA	'OZARK 161KV'	150.6	-0.00077	-0.03171	46
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	OKGE	'AES 161KV'	320	-0.00111	-0.03137	47
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	LEPA	'CITY OF HOUMA SUB 115KV'	84	-0.00107	-0.03141	47
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	CELE	'D.G. HUNTER POWER STATION 138KV'	86.5168	-0.00123	-0.03125	47
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	LEPA	'IRION SUB 230KV'	25	-0.00104	-0.03144	47
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	SWPA	'ROBERT S. KERR 161KV'	314.8	-0.00139	-0.03109	47
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	CELE	'RODEMACHER 230KV'	651	-0.00104	-0.03144	47
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	SWPA	'TRUMAN 161KV'	102	-0.00126	-0.03122	47
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	AEPW	'WILKES 345KV'	191	-0.00102	-0.03146	47
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00175	-0.03073	48
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	EMDE	'ASBURY 161KV'	191	-0.00179	-0.03069	48
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	LEPA	'BAYOU RAMOS 138KV'	29.82431	-0.00153	-0.03095	47
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	SWPA	'BEAVER 161KV'	139.1643	-0.00163	-0.03085	48
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	WERE	'BPU - CITY OF MCPHERSON 115KV'	157.1294	-0.0018	-0.03068	48
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	SWPA	'CARTHAGE 69KV'	32	-0.00171	-0.03077	48
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	WERE	'CITY OF IOLA 69KV'	24.471	-0.00192	-0.03056	48
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	CELE	'EVANGELINE 138KV'	141.4269	-0.00178	-0.0307	48
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	CELE	'EVANGELINE 230KV'	173.6403	-0.0016	-0.03088	47
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	WERE	'HUTCHINSON ENERGY CENTER 115KV'	315	-0.00182	-0.03066	48
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	-0.00182	-0.03066	48
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.0017	-0.03078	48
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.0017	-0.03078	48
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	EMDE	'LARUSSEL 161KV'	116	-0.00165	-0.03083	48
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	WERE	'LAWRENCE ENERGY CENTER 230KV'	231.5762	-0.00167	-0.03081	48
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	EMDE	'RIVERTON 161KV'	88.89612	-0.00182	-0.03066	48
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	EMDE	'RIVERTON 69KV'	44.39298	-0.00181	-0.03067	48
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	EMDE	'STATE LINE 161KV'	503	-0.0018	-0.03068	48
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	CELE	'TECHE 138KV'	227.5919	-0.00183	-0.03065	48
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00168	-0.0308	48
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	CELE	'ACADIA 138KV'	307.0811	-0.0023	-0.03018	49
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	WERE	'CHANUTE 69KV'	55.637	-0.00196	-0.03052	48
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00213	-0.03035	48
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	WERE	'CITY OF BURLINGTON 69KV'	34.061	-0.00193	-0.03055	48
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	WERE	'CITY OF ERIE 69KV'	23.374	-0.00196	-0.03052	48
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	EMDE	'ELK RIVER 345KV'	150	-0.00204	-0.03044	48
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	WERE	'ELK RIVER WIND 34KV'	100	-0.00204	-0.03044	48
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	SWPA	'EUFAULA 138KV'	51	-0.00221	-0.03027	48
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	SWPA	'EUFAULA 161KV'	69.8	-0.00221	-0.03027	48
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.00217	-0.03031	48
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	AEPW	'FLINT CREEK 161KV'	428	-0.00201	-0.03047	48
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03248	WERE	'GILL ENERGY CENTER 138KV'	171	-0.00216	-0.03032	48

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

WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	WERE	'EMPORIA 345KV'	380	0.01535	-0.41632	39
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	KACP	'HAWTHORN 161KV'	455	0.00835	-0.40932	39
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	KACP	'IATAN 345KV'	396	0.0111	-0.41207	39
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	KACP	'LACYGNE UNIT 345KV'	958	0.00777	-0.40874	39
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	KACP	'MONTROSE 161KV'	205.0929	0.00748	-0.40845	39
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	KACY	'NEARMAN 161KV'	18.16388	0.0095	-0.41047	39
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	KACY	'NEARMAN 20KV'	220	0.0095	-0.41047	39
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	KACY	'QUINDARO 161KV'	116.942	0.00945	-0.41042	39
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	KACY	'QUINDARO 69KV'	72	0.00942	-0.41039	39
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	MIPU	'SIBLEY 161KV'	229.1608	0.00782	-0.40879	39
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	MIPU	'SIBLEY 69KV'	45.99999	0.00793	-0.4089	39
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	MIPU	'SOUTH HARPER 161KV'	75.19196	0.00921	-0.41018	39
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	WERE	'EMPORIA 345KV'	380	0.01535	-0.41592	39
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	KACP	'HAWTHORN 161KV'	455	0.00835	-0.40892	39
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	KACP	'IATAN 345KV'	396	0.0111	-0.41167	39
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	KACP	'LACYGNE UNIT 345KV'	958	0.00777	-0.40834	39
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	WERE	'LAWRENCE ENERGY CENTER 230KV'	132.0757	0.0173	-0.41787	39
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	KACP	'MONTROSE 161KV'	205.0929	0.00748	-0.40805	39
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	KACY	'NEARMAN 161KV'	18.16388	0.0095	-0.41007	39
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	KACY	'NEARMAN 20KV'	220	0.0095	-0.41007	39
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	KACY	'QUINDARO 161KV'	116.942	0.00945	-0.41002	39
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	KACY	'QUINDARO 69KV'	72	0.00942	-0.40999	39
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	MIPU	'SIBLEY 161KV'	229.1608	0.00782	-0.40839	39
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	MIPU	'SIBLEY 69KV'	45.99999	0.00793	-0.4085	39
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	MIPU	'SOUTH HARPER 161KV'	75.19196	0.00921	-0.40978	39
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	OKGE	'AES 161KV'	320	-0.00087	-0.4001	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	EMDE	'ASBURY 161KV'	191	0.00243	-0.4034	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	WERE	'CHANUTE 69KV'	34.903	0.00266	-0.40363	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	WERE	'CITY OF AUGUSTA 69KV'	15	0.00138	-0.40235	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	WERE	'CITY OF BURLINGTON 69KV'	20.393	0.00472	-0.40569	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	WERE	'CITY OF IOLA 69KV'	19.902	0.00306	-0.40403	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.61	0.00472	-0.40569	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	AEPW	'COGENTRIX 345KV'	200	-0.00126	-0.39971	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	AEPW	'EASTMAN 138KV'	355	-0.00175	-0.39922	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	EMDE	'ELK RIVER 345KV'	150	0.00228	-0.40325	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	AEPW	'FITZHUGH 161KV'	126	-0.00066	-0.40031	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	AEPW	'FLINT CREEK 161KV'	400	0.00023	-0.4012	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	AEPW	'FULTON 115KV'	32.99999	-0.00164	-0.39933	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	AEPW	'KNOXLEE 138KV'	103	-0.00174	-0.39923	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	AEPW	'L&D13 69KV'	24	-0.00076	-0.40021	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	MIPU	'LAKE ROAD 161KV'	35	0.00658	-0.40755	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	MIPU	'LAKE ROAD 34KV'	92	0.00658	-0.40755	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	AEPW	'LEBROCK 345KV'	315	-0.00175	-0.39922	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	KACP	'MARSHALL 161KV'	15	0.00461	-0.40558	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	OKGE	'MUSKOGEE 345KV'	1516	-0.00134	-0.39963	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	AEPW	'NORTHEASTERN STATION 138KV'	240	-0.00038	-0.40059	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	AEPW	'NORTHEASTERN STATION 345KV'	600	-0.00008	-0.40089	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	AEPW	'OEC 345KV'	219	-0.00091	-0.40006	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	EMDE	'OZARK BEACH 161KV'	16	0.00143	-0.4024	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	AEPW	'PIRKEY GENERATION 138KV'	450	-0.00174	-0.39923	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	AEPW	'RIVERSIDE STATION 138KV'	88.00001	-0.00124	-0.39973	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	EMDE	'RIVERTON 161KV'	38	0.00183	-0.4028	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	EMDE	'RIVERTON 69KV'	44.59597	0.00178	-0.40275	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	OKGE	'SOONER 138KV'	505	-0.00312	-0.39785	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	EMDE	'STATE LINE 161KV'	356.7808	0.00183	-0.4028	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	AEPW	'WELSH 345KV'	975.0001	-0.00197	-0.399	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	AEPW	'WILKES 138KV'	134.7028	-0.00181	-0.39916	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	AEPW	'WILKES 345KV'	186.6942	-0.00178	-0.39919	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	OKGE	'AES 161KV'	320	-0.00087	-0.3997	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	EMDE	'ASBURY 161KV'	191	0.00243	-0.403	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	WERE	'CHANUTE 69KV'	34.903	0.00266	-0.40323	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	WERE	'CITY OF AUGUSTA 69KV'	15	0.00138	-0.40195	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	WERE	'CITY OF BURLINGTON 69KV'	20.393	0.00472	-0.40529	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	WERE	'CITY OF IOLA 69KV'	19.902	0.00306	-0.40363	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.61	0.00472	-0.40529	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	AEPW	'COGENTRIX 345KV'	200	-0.00126	-0.39931	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	AEPW	'EASTMAN 138KV'	355	-0.00175	-0.39882	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	EMDE	'ELK RIVER 345KV'	150	0.00228	-0.40285	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	AEPW	'FITZHUGH 161KV'	126	-0.00066	-0.39991	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	AEPW	'FLINT CREEK 161KV'	400	0.00023	-0.4008	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	AEPW	'FULTON 115KV'	32.99999	-0.00164	-0.39893	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	AEPW	'KNOXLEE 138KV'	103	-0.00174	-0.39883	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	AEPW	'L&D13 69KV'	24	-0.00076	-0.39981	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	MIPU	'LAKE ROAD 161KV'	35	0.00658	-0.40715	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	MIPU	'LAKE ROAD 34KV'	92	0.00658	-0.40715	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	AEPW	'LEBROCK 345KV'	315	-0.00175	-0.39882	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	KACP	'MARSHALL 161KV'	15	0.00461	-0.40518	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	OKGE	'MUSKOGEE 345KV'	1516	-0.00134	-0.39923	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	AEPW	'NORTHEASTERN STATION 138KV'	240	-0.00038	-0.40019	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	AEPW	'NORTHEASTERN STATION 345KV'	600	-0.00008	-0.40049	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	AEPW	'OEC 345KV'	219	-0.00091	-0.39966	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	EMDE	'OZARK BEACH 161KV'	16	0.00143	-0.402	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	AEPW	'PIRKEY GENERATION 138KV'	450	-0.00174	-0.39883	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	AEPW	'RIVERSIDE STATION 138KV'	88.00001	-0.00124	-0.39933	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	EMDE	'RIVERTON 161KV'	38	0.00183	-0.4024	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	EMDE	'RIVERTON 69KV'	44.59597	0.00178	-0.40235	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	EMDE	'STATE LINE 161KV'	356.7808	0.00183	-0.4024	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	AEPW	'WELSH 345KV'	975.0001	-0.00197	-0.3986	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	AEPW	'WILKES 138KV'	134.7028	-0.00181	-0.39876	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	AEPW	'WILKES 345KV'	186.6942	-0.00178	-0.39879	40
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50635	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	-0.11614	-0.39021	41
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50635	WEPL	'JUDSON LARGE 115KV'	24.01537	-0.11611	-0.39024	41
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	AEPW	'COMANCHE 138KV'	160	-0.00955	-0.39142	41
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	AEPW	'COMANCHE 69KV'	63	-0.0094	-0.39157	41
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	OKGE	'FPLWND2 34KV'	61.9956	-0.00824	-0.39273	41
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	OKGE	'MCCLAIN 138KV'	478	-0.0049	-0.39607	41
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	OKGE	'REDBUD 345KV'	250	-0.00395	-0.39702	41
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	OKGE	'SEMINOLE 138KV'	448.9081	-0.0046	-0.39637	41
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	OKGE	'SEMINOLE 345KV'	590.52	-0.00449	-0.39648	41
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	OKGE	'SMITH COGEN 138KV'	120	-0.00481	-0.39616	41
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	OKGE	'SOONER 345KV'	513	-0.00343	-0.39754	41
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	AEPW	'SOUTHWESTERN STATION 138KV'	29	-0.00919	-0.39178	41
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	WERE	'WACO 138KV'	17.414	-0.00411	-0.39686	41

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

WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	AEPW	'COMANCHE 138KV'	160	-0.00955	-0.39102	41
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	AEPW	'COMANCHE 69KV'	63	-0.0094	-0.39117	41
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	OKGE	'FPLWND2 34KV'	61.9956	-0.00824	-0.39233	41
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	OKGE	'MCCLAIN 138KV'	478	-0.0049	-0.39567	41
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	OKGE	'REDBUD 345KV'	250	-0.00395	-0.39662	41
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	OKGE	'SEMINOLE 138KV'	448.9081	-0.0046	-0.39597	41
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	OKGE	'SEMINOLE 345KV'	590.52	-0.00449	-0.39608	41
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	OKGE	'SMITH COGEN 138KV'	120	-0.00481	-0.39576	41
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	OKGE	'SOONER 138KV'	505	-0.00312	-0.39745	41
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	OKGE	'SOONER 345KV'	513	-0.00343	-0.39714	41
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	AEPW	'SOUTHWESTERN STATION 138KV'	29	-0.00919	-0.39138	41
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	WERE	'WACO 138KV'	17.414	-0.00411	-0.39646	41
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	-0.09305	-0.30792	52
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	MIDW	'GOODMAN ENERGY CENTER 115KV'	75	-0.09305	-0.30752	52
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	-0.11614	-0.28483	57
WERE	'HUTCHINSON ENERGY CENTER 115KV'	601	-0.40097	WEPL	'JUDSON LARGE 115KV'	24.01537	-0.11611	-0.28486	57
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	-0.11614	-0.28443	57
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40057	WEPL	'JUDSON LARGE 115KV'	24.01537	-0.11611	-0.28446	57
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.02918	-0.2064	78
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	WERE	'SMOKEY HILLS 34KV'	152	0.02946	-0.20668	78
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02785	-0.20507	79
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	WERE	'LAWRENCE ENERGY CENTER 230KV'	132.0757	0.0173	-0.19452	83
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	WERE	'EMPORIA 345KV'	380	0.01535	-0.19257	84
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	KACP	'IATAN 345KV'	396	0.0111	-0.18832	86
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	KACY	'NEARMAN 20KV'	220	0.0095	-0.18672	86
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	KACY	'QUINDARO 161KV'	116.942	0.00945	-0.18667	86
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	KACY	'QUINDARO 69KV'	72	0.00942	-0.18664	86
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	MIPU	'SOUTH HARPER 161KV'	75.19196	0.00921	-0.18643	86
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	KACP	'HAWTHORN 161KV'	455	0.00835	-0.18557	87
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	KACP	'LACYGNE UNIT 345KV'	958	0.00777	-0.18499	87
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	KACP	'MONTROSE 161KV'	205.0929	0.00748	-0.1847	87
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	MIPU	'SIBLEY 161KV'	229.1608	0.00782	-0.18504	87
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	MIPU	'SIBLEY 69KV'	45.99999	0.00793	-0.18515	87
MIDW	'lyons 115kv'	999	-0.15519	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.02918	-0.18437	87
MIDW	'lyons 115kv'	999	-0.15519	WERE	'SMOKEY HILLS 34KV'	152	0.02946	-0.18465	87
MIDW	'pawnee 115kv'	999	-0.15519	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.02918	-0.18437	87
MIDW	'pawnee 115kv'	999	-0.15519	WERE	'SMOKEY HILLS 34KV'	152	0.02946	-0.18465	87
MIDW	'rice 115kv'	999	-0.15519	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.02918	-0.18437	87
MIDW	'rice 115kv'	999	-0.15519	WERE	'SMOKEY HILLS 34KV'	152	0.02946	-0.18465	87
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	MIPU	'LAKE ROAD 161KV'	35	0.00658	-0.1838	88
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	MIPU	'LAKE ROAD 34KV'	92	0.00658	-0.1838	88
MIDW	'lyons 115kv'	999	-0.15519	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02785	-0.18304	88
MIDW	'pawnee 115kv'	999	-0.15519	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02785	-0.18304	88
MIDW	'rice 115kv'	999	-0.15519	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02785	-0.18304	88
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	EMDE	'ASBURY 161KV'	191	0.00243	-0.17965	90
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	WERE	'CHANUTE 69KV'	34.903	0.00266	-0.17988	90
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	EMDE	'ELK RIVER 345KV'	150	0.00228	-0.1795	90
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	EMDE	'RIVERTON 161KV'	38	0.00183	-0.17905	90
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	EMDE	'RIVERTON 69KV'	44.59597	0.00178	-0.179	90
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	EMDE	'STATE LINE 161KV'	356.7808	0.00183	-0.17905	90
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	OKGE	'AES 161KV'	320	-0.00087	-0.17635	91
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	AEPW	'FITZHUGH 161KV'	126	-0.00666	-0.17656	91
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	AEPW	'FLINT CREEK 161KV'	400	0.00223	-0.17745	91
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	AEPW	'NORTHEASTERN STATION 138KV'	240	-0.00038	-0.17684	91
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	AEPW	'NORTHEASTERN STATION 345KV'	600	-0.00008	-0.17714	91
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	AEPW	'OEC 345KV'	219	-0.00091	-0.17631	91
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	AEPW	'COGENTRIX 345KV'	200	-0.00126	-0.17596	92
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	AEPW	'EASTMAN 138KV'	355	-0.00175	-0.17547	92
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	AEPW	'FULTON 115KV'	32.99999	-0.00184	-0.17558	92
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	AEPW	'KNOXLEE 138KV'	103	-0.00174	-0.17548	92
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	AEPW	'LEBROCK 345KV'	315	-0.00175	-0.17547	92
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	OKGE	'MUSKOGEE 345KV'	1516	-0.00134	-0.17588	92
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	AEPW	'PIRKEY GENERATION 138KV'	450	-0.00174	-0.17548	92
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	AEPW	'RIVERSIDE STATION 138KV'	88.00001	-0.00124	-0.17598	92
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	OKGE	'SOONER 138KV'	505	-0.00312	-0.1741	92
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	AEPW	'WELSH 345KV'	975.0001	-0.00197	-0.17525	92
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	AEPW	'WILKES 138KV'	134.7028	-0.00181	-0.17541	92
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	AEPW	'WILKES 345KV'	186.6942	-0.00178	-0.17544	92
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	OKGE	'MCCLAIN 138KV'	478	-0.0049	-0.17232	93
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	OKGE	'REDBUD 345KV'	250	-0.00395	-0.17327	93
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	OKGE	'SEMINOLE 138KV'	448.9081	-0.0046	-0.17262	93
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	OKGE	'SEMINOLE 345KV'	590.52	-0.00449	-0.17273	93
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	OKGE	'SMITH COGEN 138KV'	120	-0.00481	-0.17241	93
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	OKGE	'SOONER 345KV'	513	-0.00343	-0.17379	93
MIDW	'lyons 115kv'	999	-0.15519	WERE	'LAWRENCE ENERGY CENTER 230KV'	132.0757	0.0173	-0.17249	93
MIDW	'pawnee 115kv'	999	-0.15519	WERE	'LAWRENCE ENERGY CENTER 230KV'	132.0757	0.0173	-0.17249	93
MIDW	'rice 115kv'	999	-0.15519	WERE	'LAWRENCE ENERGY CENTER 230KV'	132.0757	0.0173	-0.17249	93
MIDW	'lyons 115kv'	999	-0.15519	WERE	'EMPORIA 345KV'	380	0.01535	-0.17054	94
MIDW	'pawnee 115kv'	999	-0.15519	WERE	'EMPORIA 345KV'	380	0.01535	-0.17054	94
MIDW	'rice 115kv'	999	-0.15519	WERE	'EMPORIA 345KV'	380	0.01535	-0.17054	94
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	OKGE	'FPLWND2 34KV'	61.9956	-0.00824	-0.16898	95
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	AEPW	'COMANCHE 138KV'	160	-0.00955	-0.16767	96
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.17722	AEPW	'COMANCHE 69KV'	63	-0.0094	-0.16782	96
MIDW	'lyons 115kv'	999	-0.15519	KACP	'IATAN 345KV'	396	0.0111	-0.16629	97
MIDW	'pawnee 115kv'	999	-0.15519	KACP	'IATAN 345KV'	396	0.0111	-0.16629	97
MIDW	'rice 115kv'	999	-0.15519	KACP	'IATAN 345KV'	396	0.0111	-0.16629	97
MIDW	'lyons 115kv'	999	-0.15519	KACP	'HAWTHORN 161KV'	455	0.00835	-0.16354	98
MIDW	'lyons 115kv'	999	-0.15519	KACY	'NEARMAN 20KV'	220	0.0095	-0.16469	98
MIDW	'lyons 115kv'	999	-0.15519	KACY	'QUINDARO 161KV'	116.942	0.00945	-0.16464	98
MIDW	'lyons 115kv'	999	-0.15519	KACY	'QUINDARO 69KV'	72	0.00942	-0.16461	98
MIDW	'lyons 115kv'	999	-0.15519	MIPU	'SOUTH HARPER 161KV'	75.19196	0.00921	-0.1644	98
MIDW	'pawnee 115kv'	999	-0.15519	KACP	'HAWTHORN 161KV'	455	0.00835	-0.16354	98
MIDW	'pawnee 115kv'	999	-0.15519	KACY	'NEARMAN 20KV'	220	0.0095	-0.16469	98
MIDW	'pawnee 115kv'	999	-0.15519	KACY	'QUINDARO 161KV'	116.942	0.00945	-0.16464	98
MIDW	'pawnee 115kv'	999	-0.15519	KACY	'QUINDARO 69KV'	72	0.00942	-0.16461	98
MIDW	'rice 115kv'	999	-0.15519	MIPU	'SOUTH HARPER 161KV'	75.19196	0.00921	-0.1644	98
MIDW	'rice 115kv'	999	-0.15519	KACP	'HAWTHORN 161KV'	455	0.00835	-0.16354	98
MIDW	'rice 115kv'	999	-0.15519	KACY	'NEARMAN 20KV'	220	0.0095	-0.16469	98
MIDW	'rice 115kv'	999	-0.15519	KACY	'QUINDARO 161KV'	116.942	0.00945	-0.16464	98
MIDW	'rice 115kv'	999	-0.15519	KACY	'QUINDARO 69KV'	72	0.00942	-0.16461	98
MIDW	'lyons 115kv'	999	-0.15519	MIPU	'SOUTH HARPER 161KV'	75.19196	0.00921	-0.1644	98
MIDW	'lyons 115kv'	999	-0.15519	KACP	'LACYGNE UNIT 345KV'	958	0.00777	-0.16296	99
MIDW	'lyons 115kv'	999	-0.15519	KACP	'MONTROSE 161KV'	205.0929	0.00748	-0.16267	99

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

MIDW	lyons 115kv	999	-0.15519	MIPU	'SIBLEY 161KV'	229.1608	0.00782	-0.16301	99
MIDW	lyons 115kv	999	-0.15519	MIPU	'SIBLEY 69KV'	45.99999	0.00793	-0.16312	99
MIDW	pawnee 115kv	999	-0.15519	KACP	'LACYGNE UNIT 345KV'	958	0.00777	-0.16296	99
MIDW	pawnee 115kv	999	-0.15519	KACP	'MONTROSE 161KV'	205.0929	0.00748	-0.16267	99
MIDW	pawnee 115kv	999	-0.15519	MIPU	'SIBLEY 161KV'	229.1608	0.00782	-0.16301	99
MIDW	pawnee 115kv	999	-0.15519	MIPU	'SIBLEY 69KV'	45.99999	0.00793	-0.16312	99
MIDW	rice 115kv	999	-0.15519	KACP	'LACYGNE UNIT 345KV'	958	0.00777	-0.16296	99
MIDW	rice 115kv	999	-0.15519	KACP	'MONTROSE 161KV'	205.0929	0.00748	-0.16267	99
MIDW	rice 115kv	999	-0.15519	MIPU	'SIBLEY 161KV'	229.1608	0.00782	-0.16301	99
MIDW	rice 115kv	999	-0.15519	MIPU	'SIBLEY 69KV'	45.99999	0.00793	-0.16312	99
MIDW	lyons 115kv	999	-0.15519	MIPU	'LAKE ROAD 161KV'	35	0.00658	-0.16177	100
MIDW	lyons 115kv	999	-0.15519	MIPU	'LAKE ROAD 34KV'	92	0.00658	-0.16177	100
MIDW	pawnee 115kv	999	-0.15519	MIPU	'LAKE ROAD 161KV'	35	0.00658	-0.16177	100
MIDW	pawnee 115kv	999	-0.15519	MIPU	'LAKE ROAD 34KV'	92	0.00658	-0.16177	100
MIDW	rice 115kv	999	-0.15519	MIPU	'LAKE ROAD 161KV'	35	0.00658	-0.16177	100
MIDW	rice 115kv	999	-0.15519	MIPU	'LAKE ROAD 34KV'	92	0.00658	-0.16177	100
MIDW	lyons 115kv	999	-0.15519	EMDE	'ASBURY 161KV'	191	0.00243	-0.15762	102
MIDW	lyons 115kv	999	-0.15519	WERE	'CHANUTE 69KV'	34.903	0.00266	-0.15785	102
MIDW	lyons 115kv	999	-0.15519	EMDE	'ELK RIVER 345KV'	150	0.00228	-0.15747	102
MIDW	pawnee 115kv	999	-0.15519	EMDE	'ASBURY 161KV'	191	0.00243	-0.15762	102
MIDW	pawnee 115kv	999	-0.15519	WERE	'CHANUTE 69KV'	34.903	0.00266	-0.15785	102
MIDW	pawnee 115kv	999	-0.15519	EMDE	'ELK RIVER 345KV'	150	0.00228	-0.15747	102
MIDW	rice 115kv	999	-0.15519	EMDE	'ASBURY 161KV'	191	0.00243	-0.15762	102
MIDW	rice 115kv	999	-0.15519	WERE	'CHANUTE 69KV'	34.903	0.00266	-0.15785	102
MIDW	rice 115kv	999	-0.15519	EMDE	'ELK RIVER 345KV'	150	0.00228	-0.15747	102
MIDW	lyons 115kv	999	-0.15519	EMDE	'RIVERTON 161KV'	38	0.00183	-0.15702	103
MIDW	lyons 115kv	999	-0.15519	EMDE	'RIVERTON 69KV'	44.59597	0.00178	-0.15697	103
MIDW	lyons 115kv	999	-0.15519	EMDE	'STATE LINE 161KV'	356.7808	0.00183	-0.15702	103
MIDW	pawnee 115kv	999	-0.15519	EMDE	'RIVERTON 161KV'	38	0.00183	-0.15702	103
MIDW	pawnee 115kv	999	-0.15519	EMDE	'RIVERTON 69KV'	44.59597	0.00178	-0.15697	103
MIDW	pawnee 115kv	999	-0.15519	EMDE	'STATE LINE 161KV'	356.7808	0.00183	-0.15702	103
MIDW	rice 115kv	999	-0.15519	EMDE	'RIVERTON 161KV'	38	0.00183	-0.15702	103
MIDW	rice 115kv	999	-0.15519	EMDE	'RIVERTON 69KV'	44.59597	0.00178	-0.15697	103
MIDW	rice 115kv	999	-0.15519	EMDE	'STATE LINE 161KV'	356.7808	0.00183	-0.15702	103
MIDW	lyons 115kv	999	-0.15519	OKGE	'AES 161KV'	320	-0.00087	-0.15432	104
MIDW	lyons 115kv	999	-0.15519	AEPW	'FITZHUGH 161KV'	126	-0.00066	-0.15453	104
MIDW	lyons 115kv	999	-0.15519	AEPW	'FLINT CREEK 161KV'	400	0.00023	-0.15542	104
MIDW	lyons 115kv	999	-0.15519	AEPW	'NORTHEASTERN STATION 138KV'	240	-0.00038	-0.15481	104
MIDW	lyons 115kv	999	-0.15519	AEPW	'NORTHEASTERN STATION 345KV'	600	-0.00008	-0.15511	104
MIDW	lyons 115kv	999	-0.15519	AEPW	'OEC 345KV'	219	-0.00091	-0.15428	104
MIDW	pawnee 115kv	999	-0.15519	OKGE	'AES 161KV'	320	-0.00087	-0.15432	104
MIDW	pawnee 115kv	999	-0.15519	AEPW	'FITZHUGH 161KV'	126	-0.00066	-0.15453	104
MIDW	pawnee 115kv	999	-0.15519	AEPW	'FLINT CREEK 161KV'	400	0.00023	-0.15542	104
MIDW	pawnee 115kv	999	-0.15519	AEPW	'NORTHEASTERN STATION 138KV'	240	-0.00038	-0.15481	104
MIDW	pawnee 115kv	999	-0.15519	AEPW	'NORTHEASTERN STATION 345KV'	600	-0.00008	-0.15511	104
MIDW	pawnee 115kv	999	-0.15519	AEPW	'OEC 345KV'	219	-0.00091	-0.15428	104
MIDW	rice 115kv	999	-0.15519	OKGE	'AES 161KV'	320	-0.00087	-0.15432	104
MIDW	rice 115kv	999	-0.15519	AEPW	'FITZHUGH 161KV'	126	-0.00066	-0.15453	104
MIDW	rice 115kv	999	-0.15519	AEPW	'FLINT CREEK 161KV'	400	0.00023	-0.15542	104
MIDW	rice 115kv	999	-0.15519	AEPW	'NORTHEASTERN STATION 138KV'	240	-0.00038	-0.15481	104
MIDW	rice 115kv	999	-0.15519	AEPW	'NORTHEASTERN STATION 345KV'	600	-0.00008	-0.15511	104
MIDW	rice 115kv	999	-0.15519	AEPW	'OEC 345KV'	219	-0.00091	-0.15428	104
MIDW	lyons 115kv	999	-0.15519	AEPW	'COGENTRIX 345KV'	200	-0.00126	-0.15393	105
MIDW	lyons 115kv	999	-0.15519	AEPW	'EASTMAN 138KV'	355	-0.00175	-0.15344	105
MIDW	lyons 115kv	999	-0.15519	AEPW	'KNOXLEE 138KV'	103	-0.00174	-0.15345	105
MIDW	lyons 115kv	999	-0.15519	AEPW	'LEBROCK 345KV'	315	-0.00175	-0.15344	105
MIDW	lyons 115kv	999	-0.15519	OKGE	'MUSKOGEE 345KV'	1516	-0.00134	-0.15385	105
MIDW	lyons 115kv	999	-0.15519	AEPW	'PIRKEY GENERATION 138KV'	450	-0.00174	-0.15345	105
MIDW	lyons 115kv	999	-0.15519	AEPW	'RIVERSIDE STATION 138KV'	88.00001	-0.00124	-0.15395	105
MIDW	lyons 115kv	999	-0.15519	AEPW	'WELSH 345KV'	975.0001	-0.00197	-0.15322	105
MIDW	lyons 115kv	999	-0.15519	AEPW	'WILKES 138KV'	134.7028	-0.00181	-0.15338	105
MIDW	lyons 115kv	999	-0.15519	AEPW	'WILKES 345KV'	186.6942	-0.00178	-0.15341	105
MIDW	pawnee 115kv	999	-0.15519	AEPW	'COGENTRIX 345KV'	200	-0.00126	-0.15393	105
MIDW	pawnee 115kv	999	-0.15519	AEPW	'EASTMAN 138KV'	355	-0.00175	-0.15344	105
MIDW	pawnee 115kv	999	-0.15519	AEPW	'KNOXLEE 138KV'	103	-0.00174	-0.15345	105
MIDW	pawnee 115kv	999	-0.15519	AEPW	'LEBROCK 345KV'	315	-0.00175	-0.15344	105
MIDW	pawnee 115kv	999	-0.15519	OKGE	'MUSKOGEE 345KV'	1516	-0.00134	-0.15385	105
MIDW	pawnee 115kv	999	-0.15519	AEPW	'PIRKEY GENERATION 138KV'	450	-0.00174	-0.15345	105
MIDW	pawnee 115kv	999	-0.15519	AEPW	'RIVERSIDE STATION 138KV'	88.00001	-0.00124	-0.15395	105
MIDW	pawnee 115kv	999	-0.15519	AEPW	'WELSH 345KV'	975.0001	-0.00197	-0.15322	105
MIDW	pawnee 115kv	999	-0.15519	AEPW	'WILKES 138KV'	134.7028	-0.00181	-0.15338	105
MIDW	pawnee 115kv	999	-0.15519	AEPW	'WILKES 345KV'	186.6942	-0.00178	-0.15341	105
MIDW	rice 115kv	999	-0.15519	AEPW	'COGENTRIX 345KV'	200	-0.00126	-0.15393	105
MIDW	rice 115kv	999	-0.15519	AEPW	'EASTMAN 138KV'	355	-0.00175	-0.15344	105
MIDW	rice 115kv	999	-0.15519	AEPW	'KNOXLEE 138KV'	103	-0.00174	-0.15345	105
MIDW	rice 115kv	999	-0.15519	AEPW	'LEBROCK 345KV'	315	-0.00175	-0.15344	105
MIDW	rice 115kv	999	-0.15519	OKGE	'MUSKOGEE 345KV'	1516	-0.00134	-0.15385	105
MIDW	rice 115kv	999	-0.15519	AEPW	'PIRKEY GENERATION 138KV'	450	-0.00174	-0.15345	105
MIDW	rice 115kv	999	-0.15519	AEPW	'RIVERSIDE STATION 138KV'	88.00001	-0.00124	-0.15395	105
MIDW	rice 115kv	999	-0.15519	AEPW	'WELSH 345KV'	975.0001	-0.00197	-0.15322	105
MIDW	rice 115kv	999	-0.15519	AEPW	'WILKES 138KV'	134.7028	-0.00181	-0.15338	105
MIDW	rice 115kv	999	-0.15519	AEPW	'WILKES 345KV'	186.6942	-0.00178	-0.15341	105
MIDW	lyons 115kv	999	-0.15519	OKGE	'REDBUD 345KV'	250	-0.00395	-0.15124	106
MIDW	lyons 115kv	999	-0.15519	OKGE	'SOONER 138KV'	505	-0.00312	-0.15207	106
MIDW	lyons 115kv	999	-0.15519	OKGE	'SOONER 345KV'	513	-0.00343	-0.15176	106
MIDW	pawnee 115kv	999	-0.15519	OKGE	'REDBUD 345KV'	250	-0.00395	-0.15124	106
MIDW	pawnee 115kv	999	-0.15519	OKGE	'SOONER 138KV'	505	-0.00312	-0.15207	106
MIDW	pawnee 115kv	999	-0.15519	OKGE	'SOONER 345KV'	513	-0.00343	-0.15176	106
MIDW	rice 115kv	999	-0.15519	OKGE	'REDBUD 345KV'	250	-0.00395	-0.15124	106
MIDW	rice 115kv	999	-0.15519	OKGE	'SOONER 138KV'	505	-0.00312	-0.15207	106
MIDW	rice 115kv	999	-0.15519	OKGE	'SOONER 345KV'	513	-0.00343	-0.15176	106
MIDW	lyons 115kv	999	-0.15519	OKGE	'MCCLAIN 138KV'	478	-0.0049	-0.15029	107
MIDW	lyons 115kv	999	-0.15519	OKGE	'SEMINOLE 138KV'	448.9081	-0.0046	-0.15059	107
MIDW	lyons 115kv	999	-0.15519	OKGE	'SEMINOLE 345KV'	590.52	-0.00449	-0.1507	107
MIDW	lyons 115kv	999	-0.15519	OKGE	'SMITH COGEN 138KV'	120	-0.00481	-0.15038	107
MIDW	pawnee 115kv	999	-0.15519	OKGE	'MCCLAIN 138KV'	478	-0.0049	-0.15029	107
MIDW	pawnee 115kv	999	-0.15519	OKGE	'SEMINOLE 138KV'	448.9081	-0.0046	-0.15059	107
MIDW	pawnee 115kv	999	-0.15519	OKGE	'SEMINOLE 345KV'	590.52	-0.00449	-0.1507	107
MIDW	pawnee 115kv	999	-0.15519	OKGE	'SMITH COGEN 138KV'	120	-0.00481	-0.15038	107
MIDW	rice 115kv	999	-0.15519	OKGE	'MCCLAIN 138KV'	478	-0.0049	-0.15029	107
MIDW	rice 115kv	999	-0.15519	OKGE	'SEMINOLE 138KV'	448.9081	-0.0046	-0.15059	107
MIDW	rice 115kv	999	-0.15519	OKGE	'SEMINOLE 345KV'	590.52	-0.00449	-0.1507	107
MIDW	rice 115kv	999	-0.15519	OKGE	'SMITH COGEN 138KV'	120	-0.00481	-0.15038	107

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

MIDW	'lyons 115kv'	999	-0.15519	AEPW	'COMANCHE 69KV'	63	-0.0094	-0.14579	110
MIDW	'lyons 115kv'	999	-0.15519	OKGE	'FPLWND2 34KV'	61.9956	-0.00824	-0.14695	110
MIDW	'pawnee 115kv'	999	-0.15519	AEPW	'COMANCHE 69KV'	63	-0.0094	-0.14579	110
MIDW	'pawnee 115kv'	999	-0.15519	OKGE	'FPLWND2 34KV'	61.9956	-0.00824	-0.14695	110
MIDW	'rice 115kv'	999	-0.15519	AEPW	'COMANCHE 69KV'	63	-0.0094	-0.14579	110
MIDW	'rice 115kv'	999	-0.15519	OKGE	'FPLWND2 34KV'	61.9956	-0.00824	-0.14695	110
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.02918	-0.14529	111
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	WERE	'SMOKEY HILLS 34KV'	152	0.02946	-0.14557	111
MIDW	'lyons 115kv'	999	-0.15519	AEPW	'COMANCHE 138KV'	160	-0.00955	-0.14564	111
MIDW	'pawnee 115kv'	999	-0.15519	AEPW	'COMANCHE 138KV'	160	-0.00955	-0.14564	111
MIDW	'rice 115kv'	999	-0.15519	AEPW	'COMANCHE 138KV'	160	-0.00955	-0.14564	111
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02785	-0.14396	112
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	WERE	'LAWRENCE ENERGY CENTER 230KV'	132.0757	0.0173	-0.13341	121
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	WERE	'EMPORIA 345KV'	380	0.01535	-0.13146	122
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.02918	-0.12844	125
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	WERE	'SMOKEY HILLS 34KV'	152	0.02946	-0.12872	125
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02785	-0.12711	127
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	KACP	'IATAN 345KV'	396	0.0111	-0.12721	127
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	KACY	'NEARMAN 20KV'	220	0.0095	-0.12561	128
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	KACY	'QUINDARO 161KV'	116.942	0.00945	-0.12563	128
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	KACY	'QUINDARO 69KV'	72	0.00942	-0.12553	128
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	MIPU	'SOUTH HARPER 161KV'	75.19196	0.00921	-0.12532	128
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	KACP	'HAWTHORN 161KV'	455	0.00835	-0.12446	129
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	KACP	'LACYGNE UNIT 345KV'	958	0.00777	-0.12388	130
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	KACP	'MONTROSE 161KV'	205.0929	0.00748	-0.12359	130
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	MIPU	'SIBLEY 161KV'	229.1608	0.00782	-0.12393	130
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	MIPU	'SIBLEY 69KV'	45.99999	0.00793	-0.12404	130
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	WERE	'SMOKEY HILLS 34KV'	152	0.02946	-0.12251	131
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	MIPU	'LAKE ROAD 34KV'	92	0.00658	-0.12269	131
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.02918	-0.12223	132
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02785	-0.1209	133
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	EMDE	'ASBURY 161KV'	191	0.00243	-0.11854	136
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	EMDE	'ELK RIVER 345KV'	150	0.00228	-0.11839	136
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	EMDE	'STATE LINE 161KV'	356.7808	0.00183	-0.11794	137
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	WERE	'LAWRENCE ENERGY CENTER 230KV'	132.0757	0.0173	-0.11656	138
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	AEPW	'FLINT CREEK 161KV'	400	0.00023	-0.11634	138
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	AEPW	'FITZHUGH 161KV'	126	-0.00066	-0.11545	139
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	AEPW	'NORTHEASTERN STATION 138KV'	240	-0.00038	-0.11573	139
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	AEPW	'NORTHEASTERN STATION 345KV'	600	-0.00008	-0.11603	139
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	WERE	'EMPORIA 345KV'	380	0.01535	-0.11461	140
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	OKGE	'AES 161KV'	320	-0.00087	-0.11524	140
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	AEPW	'COGENTRIX 345KV'	200	-0.00126	-0.11485	140
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	OKGE	'MUSKOGEE 345KV'	1516	-0.00134	-0.11477	140
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	AEPW	'OEC 345KV'	219	-0.00091	-0.1152	140
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	AEPW	'RIVERSIDE STATION 138KV'	88.00001	-0.00124	-0.11487	140
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	AEPW	'EASTMAN 138KV'	355	-0.00175	-0.11436	141
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	AEPW	'KNOXLEE 138KV'	103	-0.00174	-0.11437	141
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	AEPW	'LEBROCK 345KV'	315	-0.00175	-0.11436	141
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	AEPW	'PIRKEY GENERATION 138KV'	450	-0.00174	-0.11437	141
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	AEPW	'WELSH 345KV'	975.0001	-0.00197	-0.11414	141
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	AEPW	'WILKES 138KV'	134.7028	-0.00181	-0.11443	141
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	AEPW	'WILKES 345KV'	186.6942	-0.00178	-0.11433	141
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	OKGE	'SOONER 138KV'	505	-0.00312	-0.11299	143
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	OKGE	'SOONER 345KV'	513	-0.00343	-0.11268	143
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	OKGE	'REDBUD 345KV'	250	-0.00395	-0.11216	144
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	OKGE	'SEMINOLE 138KV'	448.9081	-0.0046	-0.11151	144
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	OKGE	'SEMINOLE 345KV'	590.52	-0.00449	-0.11162	144
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	OKGE	'MCCLAIN 138KV'	478	-0.0049	-0.11121	145
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	OKGE	'SMITH COGEN 138KV'	120	-0.00481	-0.11113	145
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	KACP	'IATAN 345KV'	396	0.0111	-0.1036	146
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	WERE	'LAWRENCE ENERGY CENTER 230KV'	132.0757	0.0173	-0.11035	146
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	KACY	'NEARMAN 20KV'	220	0.0095	-0.10876	148
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	KACY	'QUINDARO 161KV'	116.942	0.00945	-0.10871	148
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	KACY	'QUINDARO 69KV'	72	0.00942	-0.10868	148
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	MIPU	'SOUTH HARPER 161KV'	75.19196	0.00921	-0.10847	148
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	WERE	'EMPORIA 345KV'	380	0.01535	-0.1084	149
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	OKGE	'FPLWND2 34KV'	61.9956	-0.00824	-0.10787	149
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	KACP	'HAWTHORN 161KV'	455	0.00835	-0.10761	150
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	KACP	'LACYGNE UNIT 345KV'	958	0.00777	-0.10703	150
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	MIPU	'SIBLEY 161KV'	229.1608	0.00782	-0.10708	150
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	KACP	'MONTROSE 161KV'	205.0929	0.00748	-0.10674	151
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	AEPW	'COMANCHE 138KV'	160	-0.00955	-0.10656	151
WEPL	'JUDSON LARGE 115KV'	88.98463	-0.11611	AEPW	'COMANCHE 69KV'	63	-0.0094	-0.10671	151
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	MIPU	'LAKE ROAD 34KV'	92	0.00658	-0.10584	152
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	KACP	'IATAN 345KV'	396	0.0111	-0.10415	155
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	KACY	'NEARMAN 20KV'	220	0.0095	-0.10255	157
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	KACY	'QUINDARO 161KV'	116.942	0.00945	-0.1025	157
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	KACY	'QUINDARO 69KV'	72	0.00942	-0.10247	157
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	MIPU	'SOUTH HARPER 161KV'	75.19196	0.00921	-0.10226	157
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	EMDE	'ASBURY 161KV'	191	0.00243	-0.10169	158
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	EMDE	'ELK RIVER 345KV'	150	0.00228	-0.10154	159
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	EMDE	'STATE LINE 161KV'	356.7808	0.00183	-0.10109	159
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	KACP	'HAWTHORN 161KV'	455	0.00835	-0.1014	159
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	KACP	'LACYGNE UNIT 345KV'	958	0.00777	-0.10082	160
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	KACP	'MONTROSE 161KV'	205.0929	0.00748	-0.10053	160
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	MIPU	'SIBLEY 161KV'	229.1608	0.00782	-0.10087	160
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	AEPW	'FLINT CREEK 161KV'	400	0.00023	-0.09949	162
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	AEPW	'NORTHEASTERN STATION 345KV'	600	-0.00008	-0.09918	162
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	MIPU	'LAKE ROAD 34KV'	92	0.00658	-0.09963	162
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	AEPW	'FITZHUGH 161KV'	126	-0.00066	-0.0996	163
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	AEPW	'NORTHEASTERN STATION 138KV'	240	-0.00038	-0.09888	163
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	OKGE	'AES 161KV'	320	-0.00087	-0.09839	164
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	AEPW	'COGENTRIX 345KV'	200	-0.00126	-0.098	164
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	OKGE	'MUSKOGEE 345KV'	1516	-0.00134	-0.09792	164
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	AEPW	'OEC 345KV'	219	-0.00091	-0.09835	164
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	AEPW	'RIVERSIDE STATION 138KV'	88.00001	-0.00124	-0.09802	164
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	AEPW	'EASTMAN 138KV'	355	-0.00175	-0.09751	165
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	AEPW	'KNOXLEE 138KV'	103	-0.00174	-0.09752	165
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	AEPW	'LEBROCK 345KV'	315	-0.00175	-0.09751	165
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	AEPW	'PIRKEY GENERATION 138KV'	450	-0.00174	-0.09752	165
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	AEPW	'WILKES 138KV'	134.7028	-0.00181	-0.09745	165
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	AEPW	'WILKES 345KV'	186.6942	-0.00178	-0.09748	165
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	AEPW	'WELSH 345KV'	975.0001	-0.00197	-0.09729	166

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

WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	OKGE	'SOONER 138KV'	505	-0.00312	-0.09614	167
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	OKGE	'SOONER 345KV'	513	-0.00343	-0.09583	168
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	OKGE	'REDBUD 345KV'	250	-0.00395	-0.09531	169
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	EMDE	'ASBURY 161KV'	191	0.00243	-0.09548	169
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	EMDE	'ELK RIVER 345KV'	150	0.00228	-0.09533	169
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	OKGE	'SEMINOLE 138KV'	448.9081	-0.0046	-0.09466	170
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	OKGE	'SEMINOLE 345KV'	590.52	-0.00449	-0.09477	170
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	OKGE	'SMITH COGEN 138KV'	120	-0.00481	-0.09445	170
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	EMDE	'STATE LINE 161KV'	356.7808	0.00183	-0.09488	170
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	OKGE	'MCCLAIN 138KV'	478	-0.0049	-0.09436	171
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	AEPW	'FLINT CREEK 161KV'	400	0.00023	-0.09328	173
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	AEPW	'NORTHEASTERN STATION 345KV'	600	-0.00008	-0.09297	173
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	AEPW	'FITZHUGH 161KV'	126	-0.00066	-0.09239	174
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	AEPW	'NORTHEASTERN STATION 138KV'	240	-0.00039	-0.09267	174
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	OKGE	'AES 161KV'	320	-0.00087	-0.09218	175
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	AEPW	'COGENTRIX 345KV'	200	-0.00126	-0.09179	175
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	AEPW	'OEC 345KV'	219	-0.00091	-0.09214	175
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	AEPW	'RIVERSIDE STATION 138KV'	88.00001	-0.00124	-0.09181	175
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	AEPW	'EASTMAN 138KV'	355	-0.00175	-0.0913	176
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	AEPW	'KNOXLEE 138KV'	103	-0.00174	-0.09131	176
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	AEPW	'LEBROCK 345KV'	315	-0.00175	-0.0913	176
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	OKGE	'MUSKOGEE 345KV'	1516	-0.00134	-0.09171	176
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	AEPW	'PIRKEY ENERGY 138KV'	450	-0.00174	-0.09131	176
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	AEPW	'WILKES 138KV'	134.7028	-0.00181	-0.09124	176
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	AEPW	'WILKES 345KV'	186.6942	-0.00178	-0.09127	176
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	OKGE	'FPLWIND2 34KV'	61.9956	-0.00824	-0.09102	177
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	AEPW	'WELSH 345KV'	975.0001	-0.00197	-0.09108	177
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	AEPW	'COMANCHE 138KV'	160	-0.00955	-0.08971	179
WEPL	'CIMARRON RIVER 115KV'	72	-0.09926	AEPW	'COMANCHE 69KV'	63	-0.0094	-0.08986	179
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	OKGE	'SOONER 138KV'	505	-0.00312	-0.08993	179
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	OKGE	'SOONER 345KV'	513	-0.00343	-0.08962	180
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	OKGE	'REDBUD 345KV'	250	-0.00395	-0.0891	181
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	OKGE	'SEMINOLE 138KV'	448.9081	-0.0046	-0.08845	182
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	OKGE	'SEMINOLE 345KV'	590.52	-0.00449	-0.08856	182
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	OKGE	'SMITH COGEN 138KV'	120	-0.00481	-0.08824	182
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	OKGE	'MCCLAIN 138KV'	478	-0.0049	-0.08815	183
MIDW	'GOODMAN ENERGY CENTER 115KV'	159.36	-0.09305	AEPW	'COMANCHE 138KV'	160	-0.00955	-0.0835	193
AEPW	'SOUTHWESTERN STATION 138KV'	730	-0.00919	WERE	'SMOKEY HILLS 34KV'	152	0.02946	-0.03865	417
AEPW	'SOUTHWESTERN STATION 138KV'	730	-0.00919	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.02918	-0.03837	420
AEPW	'SOUTHWESTERN STATION 138KV'	730	-0.00919	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02785	-0.03704	435
OKGE	'MUSTANG 138KV'	365.5	-0.00482	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.02918	-0.034	474
WERE	'GILL ENERGY CENTER 138KV'	285	-0.00464	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.02918	-0.03382	476
OKGE	'SEMINOLE 345KV'	406.08	-0.00449	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.02918	-0.03367	478
OKGE	'HORSESHOE LAKE 138KV'	851.5	-0.00441	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.02918	-0.03359	479
OKGE	'ONE OAK 345KV'	336	-0.00435	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.02918	-0.03353	480
AEPW	'KIOWA 345KV'	1348	-0.00405	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.02918	-0.03323	485
OKGE	'REDBUD 345KV'	950	-0.00395	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.02918	-0.03313	486
OKGE	'MUSTANG 138KV'	365.5	-0.00482	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02785	-0.03267	493
OKGE	'RED ROCK 345KV'	1050	-0.00343	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.02918	-0.03261	494
WERE	'GILL ENERGY CENTER 138KV'	285	-0.00464	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02785	-0.03249	496
OKGE	'SEMINOLE 345KV'	406.08	-0.00449	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02785	-0.03234	498
OKGE	'HORSESHOE LAKE 138KV'	851.5	-0.00441	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02785	-0.03226	499
OKGE	'ONE OAK 345KV'	336	-0.00435	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02785	-0.0322	500
AEPW	'KIOWA 345KV'	1348	-0.00405	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02785	-0.0319	505
OKGE	'REDBUD 345KV'	950	-0.00395	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02785	-0.0318	506
OKGE	'RED ROCK 345KV'	1050	-0.00343	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02785	-0.03128	515
AEPW	'TURK 138KV'	608	-0.00196	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.02918	-0.03114	517
AEPW	'WILKES 138KV'	328.2972	-0.00181	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.02918	-0.03099	520
AEPW	'KNOXLEE 138KV'	320	-0.00174	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.02918	-0.03092	521
AEPW	'LEBROCK 345KV'	382	-0.00175	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.02918	-0.03093	521
AEPW	'LIEBERMAN 138KV'	224	-0.00161	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.02918	-0.03079	523
AEPW	'COGENTRIX 345KV'	694	-0.00126	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.02918	-0.03044	529
AEPW	'RIVERSIDE STATION 138KV'	634	-0.00124	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.02918	-0.03042	529
AEPW	'TULSA POWER STATION 138KV'	294	-0.00115	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.02918	-0.03033	531
OKGE	'MUSKOGEE 161KV'	197	-0.00107	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.02918	-0.03025	532
AEPW	'OEC 345KV'	1928.03	-0.00091	WERE	'JEFFREY ENERGY CENTER 345KV'	919.8562	0.02918	-0.03009	535

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor