



*Aggregate System Impact Study  
SPP-2006-AG2-ASIS  
For Transmission Service  
Requested By  
Aggregate Transmission Customers*

*SPP Engineering, Tariff Studies*

*SPP AGGREGATE SYSTEM IMPACT STUDY (SPP-2006-AG2-ASIS)*

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## **1. Executive Summary**

Pursuant to Attachment Z of the Southwest Power Pool Open Access Transmission Tariff (OATT), approximately 6554 MW of long-term transmission service requests have been studied in aggregate. The principal objective of the study is to identify system problems and potential modifications necessary to facilitate these transfers while maintaining or improving system reliability. Facility upgrade costs are allocated to all requests positively impacting any individual upgraded facility on a prorated basis. 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 facilities upgrade cost determined by the Aggregate System Impact Study is approximately \$ 475 Million. Final cost allocation and potential base plan funding will be determined during the Aggregate Facility Study.

## **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 hyperlink can be used to access the SPP Regulatory/FERC webpage: ([http://www.spp.org/Objects/FERC\\_filings.cfm](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 commenced on October 1, 2005. All requests for long-term transmission service received prior to February 1, 2006 with a signed study agreement were then included in the third Aggregate Transmission Service Study (ATSS). This report signals the completion of the first stage of the ATSS, the Aggregate System Impact Study (ASIS). In order to enter the second stage of the ATSS, the Aggregate Facility Study (AFS), another agreement must be executed by each customer. The Aggregate Facility Study Agreement (AFSA) has been tendered to the customer contact given on each OASIS request, and a fifteen-day window has been opened to allow for agreement execution.

Approximately 6554 MW of long-term transmission service has been studied and over \$ 475 Million in transmission upgrades is being proposed. The results of the ASIS are detailed in Tables 1 through 3. 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 hyperlink can be used to access the SPP OATT: ([http://www.spp.org/Publications/SPP\\_Tariff.pdf](http://www.spp.org/Publications/SPP_Tariff.pdf)). The individual

upgrade costs by study are provided as a range due to the uncertainty of final customer participation. The lower cost is based upon the allocation of costs to all customers in the ASIS who positively impact facilities subsequently overloaded by the ASIS. The higher cost is determined by allocating the total cost of each upgrade required by an individual study to that study. 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.

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 facility upgrades. Network Integration Service customers pay the total monthly transmission access charges, the monthly revenue requirement associated with the facility upgrades, and any direct assignment charges. Customers paying the above charges may receive credits in accordance with Section VI.B.

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 and not only by customer assigned upgrades.

### **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 thirteen seasonal models to study the aggregate transfers of 6554 MW over a variety of requested service periods. The SPP MDWG 2006 Series Cases Update 1 2006 Fall Peak (06FA), 2006/07 Winter Peak (06WP), 2007 April Minimum (07AP), 2007 Spring Peak (07G), 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. Four groups of requests were developed from the aggregate of 6554 MW in order to minimize counterflows among requested service. Each request was included in one to four groups depending on the requested path. From the thirteen seasonal models, four 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 net importing and SPS exporting to outside zones and importing from 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 importing and SPS importing from outside zones and exporting to the Lamar HVDC Tie. Scenario 3 includes transmission requests not already included in the SPP 2006 Series Cases flowing in a South to North direction with ERCOT net importing and SPS exporting to outside zones and importing 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. The system scenarios were developed to minimize counter flows from previously confirmed, higher priority requests not included in the MDWG Base Case.

## **C. 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.

#### **D. 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 the 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.

SPP determined potential relief pairs to relieve the incremental MW impact on limiting facilities identified. 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 with a greater than 3% TDF were determined from the incremental units with the lowest generation shift factors and decremental units with highest generation shift factors. The potential relief pairs were not evaluated to determine impacts on limiting facilities in the SPP and 1st-Tier systems.

### **4. Study Results**

#### **A. Study Analysis Results**

Tables 1 through 5 contain the steady-state analysis results of the ASIS. Table 1 identifies the participating long-term transmission service requests included in the ASIS. This table provides the cost range, potential base plan funding allowance, point-to-point base rate charge, deferral period for each request, and minimum annual allocated ATC without upgrades and season of first impact. Table 2 provides additional details for each request including all facility upgrades required and allocated costs for each upgrade. These costs are provided in a range derived from the two possibilities that all requests will execute service agreements or that only the detailed request will execute a service agreement. Table 3 lists all upgrade requirements with associated solutions needed to provide transmission service for the ASIS, the Commercial Operation Date (COD), the End of Construction (EOC), and Estimated E & C cost. Table 4 lists identified Third-Party constrained facilities. Table 5 identifies potential redispatch pairs available to relieve the aggregate impacts on identified constraints to prevent deferral of service.

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 and upon SPP Board of Directors approval. The lesser of the planned maximum net dependable capacity or the requested capacity is multiplied by \$180,000 to determine potential base plan funding allowable. If this additional capacity exceeds the 125% resource to load criteria for a given year, the value of capacity not exceeding 125% of load will set the determinant for base plan funding consideration. For example, a customer submits a request to add a new resource of 50MW in 2010 that meets all other conditions for base plan funding. The Customer's load forecast for 2010 is 500MW with forecasted firm resources of 600MW. The additional 50MW of resources increases the resource to load ratio from 120% to 130%. Therefore the portion of the 50MW request not exceeding 125% resource to load, or 25MW, would be multiplied by \$180,000/MW resulting in \$4,500,000 of potential base plan funding allowable. Any allocated customer costs in excess of base plan funding will be assigned to the customer.

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.

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 Customer Allocation Cost is the estimated engineering and construction cost based upon the allocation of costs to all customers in the ASIS who positively impact facilities by at least 3% subsequently overloaded by the ASIS. The 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.

The AFS will utilize the allocated customer E & C cost in a present worth analysis to determine the levelized revenue requirement of each facility upgrade over the term of the reservation. The upgrade levelized revenue requirements include interest, depreciation, and carrying costs. Therefore, the levelized revenue requirements for facilities upgrades will be higher than the estimated E & C costs included in this study.

## **5. Conclusion**

The results of the ASIS 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 2. Any solutions, upgrades, and costs provided in the ASIS are planning

estimates and will be refined in the AFS. The final ATC and upgrades required may vary from these results due to unknown facility upgrades caused by assigned upgrades, proposed transmission plans that may be identified during the facility study process, and withdrawal of participating long-term transmission service requests included in the ASIS.

Execution of an AFSA is now required to maintain participation in the ATSS. The final ATC, upgrade solutions, cost assignments, deferral periods, renewal right evaluation, and available redispatch and curtailment options will be determined upon the completion of the AFS.



## Appendix

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

#### BASE CASES:

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

1. Tap adjustment – Stepping
2. Area interchange control – Tie lines and load
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 – 3 mw
6. Excl'd 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 load
3. Var limits - Apply immediately
4. Solution options -  Phase shift adjustment
  - \_ Flat start
  - \_ Lock DC taps
  - \_ Lock switched shunts

**Table 1 - Long-Term Transmission Service Requests Included the Aggregate System Impact Study**

Customer	Study Number	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Start Date with Redispatch	Stop Date with Redispatch	Minimum Allocated ATC (MW) within reservation period	Season of Minimum Allocated ATC within reservation period	Maximum Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Engineering and Construction Cost of Upgrades Allocated to Customer	Total Engineering and Construction Cost of Upgrades Assigned to Customer
AECC	AG2-2006-017	1079577	CSWS	EES	25	1/1/2007	1/1/2009	10/1/2008	10/1/2010	10/1/2008	10/1/2010	0	07SP	\$ -	\$ 540,000	\$ 711,015	\$ 4,000,000
AECC	AG2-2006-039	1089945	WR	CSWS	50	12/1/2007	12/1/2027	6/1/2009	6/1/2029	6/1/2009	6/1/2029	0	07WP	\$ 900,000	\$ -	\$ 4,704,524	\$ 11,350,000
AECC	AG2-2006-064	1090457	WR	EES	50	12/1/2007	12/1/2027					0	11WP	\$ -	\$ 10,800,000	\$ 412,634	\$ 4,000,000
APEM	AG2-2006-024	1086235	WFEC	CSWS	80	7/1/2007	7/1/2027	6/1/2010	6/1/2030	7/1/2007	7/1/2027	0	07SP	\$ 720,000	\$ -	\$ 19,654,972	\$ 209,330,606
APEM	AG2-2006-024	1086238	WFEC	CSWS	16	7/1/2007	7/1/2027	6/1/2010	6/1/2030	7/1/2007	7/1/2027	0	07SP	\$ 180,000	\$ -	\$ 3,931,034	\$ 209,330,606
APEM	AG2-2006-025	1086246	CSWS	CSWS	200	1/1/2008	1/1/2010					100	N/A	\$ -	\$ -	\$ -	\$ -
APEM	AG2-2006-033	1087745	EES	CSWS	225	1/1/2007	1/1/2010	6/1/2010	6/1/2013	1/1/2007	1/1/2010	0	07SP	\$ -	\$ -	\$ 6,000,279	\$ 18,325,000
APEM	AG2-2006-034	1087757	CSWS	CSWS	172	6/1/2008	6/1/2028	6/1/2010	6/1/2030	6/1/2009	6/1/2029	0	08SP	\$ 15,480,000	\$ -	\$ 285,341	\$ 1,335,000
APEM	AG2-2006-092	1090812	EES	CSWS	250	1/1/2007	1/1/2010	6/1/2010	6/1/2013	1/1/2007	1/1/2010	0	07SP	\$ -	\$ -	\$ 6,917,901	\$ 18,325,000
APM	AG2-2006-031	1087085	AECI	OKGE	3	12/1/2006	12/1/2007	6/1/2010	6/1/2011	6/1/2010	6/1/2011	3	07SP	\$ -	\$ -	\$ 179,452	\$ 264,605,672
CALP	AG2-2006-004	1040980	NPPD	ERCOTE	50	1/1/2007	1/1/2008	6/1/2010	6/1/2011	6/1/2010	6/1/2011	35	07SH	\$ -	\$ 630,000	\$ 1,600,085	\$ 210,196,880
CALP	AG2-2006-004	1040982	NPPD	ERCOTE	50	1/1/2007	1/1/2008	6/1/2010	6/1/2011	6/1/2010	6/1/2011	35	07SH	\$ -	\$ 630,000	\$ 1,600,085	\$ 210,196,880
EDE	AG2-2006-018	1080018	EES	EDE	50	6/1/2010	6/1/2040					0	11SP	\$ -	\$ -	\$ 745,592	\$ 14,835,000
ETEC	AG2-2006-003	1040650	CSWS	EES	65	1/1/2010	1/1/2030					0	11WP	\$ -	\$ 7,128,000	\$ 841,743	\$ 18,215,000
GSEC	AG2-2006-054	1090270	CSWS	CSWS	10	10/1/2006	10/1/2036	6/1/2011	6/1/2041	6/1/2010	6/1/2040	0	06WP	\$ -	\$ -	\$ 6,414,514	\$ 291,641,282
GSEC	AG2-2006-055	1090271	CSWS	CSWS	10	10/1/2006	10/1/2036	6/1/2011	6/1/2041	6/1/2010	6/1/2040	0	06WP	\$ -	\$ -	\$ 6,373,255	\$ 291,641,282
GSEC	AG2-2006-056	1090288	SECI	SPS	400	6/1/2011	6/1/2041					0	11SP	\$ 72,000,000	\$ -	\$ 99,834,050	\$ 261,941,454
GSEC	AG2-2006-086	1090767	CSWS	CSWS	8	10/1/2006	10/1/2036	6/1/2011	6/1/2041	6/1/2010	6/1/2040	0	07SP	\$ -	\$ -	\$ 4,699,670	\$ 291,641,282
GSEC	AG2-2006-087	1090789	CSWS	CSWS	6	10/1/2006	10/1/2036	6/1/2011	6/1/2041	6/1/2010	6/1/2040	0	07SP	\$ -	\$ -	\$ 3,411,881	\$ 291,641,282
GSEC	AG2-2006-126	1090298	SPS	SPS	15	10/1/2007	10/1/2037	6/1/2010	6/1/2040	10/1/2007	10/1/2037	0	08SP	\$ -	\$ -	\$ 2,630,405	\$ 236,009,996
GSEC	AG2-2006-127	1090301	SPS	SPS	20	3/1/2007	3/1/2037	6/1/2010	6/1/2040	3/1/2007	3/1/2037	0	08SP	\$ -	\$ -	\$ 13,638,831	\$ 248,958,181
GSEC	AG2-2006-128	1090310	SPS	SPS	20	7/1/2007	7/1/2037	6/1/2011	6/1/2041	6/1/2008	6/1/2038	0	07SH	\$ -	\$ -	\$ 7,025,248	\$ 263,052,927
GSEC	AG2-2006-129	1090315	SPS	SPS	20	9/1/2007	9/1/2037	6/1/2010	6/1/2040	9/1/2007	9/1/2037	0	11SP	\$ -	\$ -	\$ 3,327,210	\$ 213,151,282
GSEC	AG2-2006-130	1090320	SPS	SPS	25	3/1/2011	3/1/2041					0	11SP	\$ -	\$ -	\$ 2,282,577	\$ 238,309,996
GSEC	AG2-2006-131	1090322	SPS	SPS	25	3/1/2009	3/1/2039	6/1/2010	6/1/2040	3/1/2009	3/1/2039	0	11SP	\$ -	\$ -	\$ 2,513,069	\$ 238,309,996
GSEC	AG2-2006-132	1090454	SPS	SPS	5	10/1/2006	10/1/2036	6/1/2010	6/1/2040	6/1/2010	6/1/2040	0	11SP	\$ -	\$ -	\$ 635,311	\$ 214,176,282
GSEC	AG2-2006-133	1090487	SPS	SPS	150	4/1/2007	4/1/2017	6/1/2010	6/1/2020	4/1/2007	4/1/2017	0	07SP	\$ 27,000,000	\$ -	\$ 10,670,817	\$ 219,502,927
GSEC	AG2-2006-134	1090324	SPS	SPS	25	3/1/2013	3/1/2043					0	16SP	\$ -	\$ -	\$ 3,515,531	\$ 238,309,996
GSEC	AG2-2006-135	1090328	SPS	SPS	25	3/1/2016	3/1/2046					0	16SP	\$ -	\$ -	\$ 3,515,531	\$ 238,309,996
GSEC	AG2-2006-136	1090456	SPS	SPS	15	7/1/2007	7/1/2037	6/1/2010	6/1/2040	6/1/2008	6/1/2038	0	07SH	\$ -	\$ -	\$ 3,144,285	\$ 215,552,927
KBPU	AG2-2006-041	1089950	WR	KACY	25	10/1/2007	10/1/2027	6/1/2011	6/1/2031	6/1/2010	6/1/2030	0	07FA	\$ -	\$ 5,280,000	\$ 2,862,359	\$ 263,350,311
KBPU	AG2-2006-042	1089952	SPA	KACY	39	7/1/2007	7/1/2017	10/1/2008	10/1/2018	7/1/2007	7/1/2017	0	07SP	\$ 4,500,000	\$ 4,118,400	\$ 3,036,178	\$ 31,713,803
KCPS	AG2-2006-090	1090801	KCPL	AECI	1	11/1/2006	6/1/2025					1	N/A	\$ -	\$ 200,700	\$ -	\$ -
KCPS	AG2-2006-090	1090802	KCPL	AECI	1	11/1/2006	6/1/2025					1	N/A	\$ -	\$ 200,700	\$ -	\$ -
KCPS	AG2-2006-091	1090773	KCPL	KACY	10	11/1/2006	6/1/2010	10/1/2008	10/1/2012	11/1/2006	6/1/2010	3	07SP	\$ -	\$ 378,400	\$ -	\$ -
KCPS	AG2-2006-091	1090782	KCPL	KACY	24	11/1/2006	6/1/2010	10/1/2008	10/1/2012	11/1/2006	6/1/2010	6	07SP	\$ -	\$ 908,160	\$ -	\$ -
KCPS	AG2-2006-091	1090787	KCPL	KACY	11	11/1/2006	6/1/2010	10/1/2008	10/1/2012	11/1/2006	6/1/2010	3	07SP	\$ -	\$ 416,240	\$ -	\$ -
KCPS	AG2-2006-091	1090815	KCPL	KACY	12	11/1/2006	6/1/2010	10/1/2008	10/1/2012	11/1/2006	6/1/2010	3	07SP	\$ -	\$ 454,080	\$ -	\$ -
KCPS	AG2-2006-091	1090818	KCPL	KACY	25	11/1/2006	6/1/2010	10/1/2008	10/1/2012	11/1/2006	6/1/2010	7	07SP	\$ -	\$ 946,000	\$ -	\$ -
KEPC	AG2-2006-067	1090416	KCPL	WR	30	6/1/2010	6/1/2030	6/1/2011	6/1/2031	6/1/2010	6/1/2030	0	11SP	\$ 5,400,000	\$ -	\$ 2,454,531	\$ 81,863,803
KEPC	AG2-2006-105	1090808	WR	WR	6	10/1/2006	10/1/2036	6/1/2011	6/1/2041	6/1/2010	6/1/2040	0	07SP	\$ -	\$ -	\$ 2,233,460	\$ 306,035,672
KEPC	AG2-2006-105	1090825	WR	WR	5	10/1/2006	10/1/2026	6/1/2011	6/1/2031	6/1/2008	6/1/2028	0	07SP	\$ -	\$ -	\$ 1,269,746	\$ 266,620,493
KEPC	AG2-2006-105	1090840	WR	WR	6	10/1/2006	10/1/2026	6/1/2011	6/1/2031	6/1/2008	6/1/2028	0	07SP	\$ -	\$ -	\$ 1,795,501	\$ 334,236,120
KEPC	AG2-2006-119	1090820	WR	WR	60	6/1/2008	6/1/2038	6/1/2011	6/1/2041	6/1/2010	6/1/2040	0	11SP	\$ 10,800,000	\$ -	\$ 3,180,628	\$ 171,822,453
KEPC	AG2-2006-120	1090745	SECI	WPEK	25	6/1/2010	6/1/2030					0	11SP	\$ 4,500,000	\$ -	\$ 2,456,208	\$ 273,271,967
KEPC	AG2-2006-121	1090754	SECI	WR	25	6/1/2010	6/1/2030	6/1/2011	6/1/2031	6/1/2010	6/1/2030	0	11SP	\$ 4,500,000	\$ -	\$ 3,307,664	\$ 260,763,797
KEPC	AG2-2006-122	1090729	WR	KCPL	14	6/1/2007	6/1/2026	6/1/2011	6/1/2016	6/1/2010	6/1/2015	0	07SP	\$ 2,520,000	\$ -	\$ 4,293,463	\$ 327,585,672
KEPC	AG2-2006-123	1090823	WR	WR	5	6/1/2007	6/1/2027	6/1/2011	6/1/2031	6/1/2008	6/1/2028	0	07SP	\$ -	\$ -	\$ 1,394,477	\$ 274,820,493
KMEA	AG2-2006-065	1090401	GRDA	KCPL	1	5/1/2007	5/1/2026	10/1/2008	10/1/2027	5/1/2007	5/1/2026	0	07SH	\$ 180,000	\$ -	\$ 118,310	\$ 31,079,803
KMEA	AG2-2006-065	1090528	GRDA	KCPL	1	5/1/2007	5/1/2026	10/1/2008	10/1/2027	5/1/2007	5/1/2026	0	07SH	\$ 180,000	\$ -	\$ 118,310	\$ 31,079,803
KMEA	AG2-2006-081	1090662	WR	WR	16	10/1/2006	10/1/2016	6/1/2011	6/1/2021	6/1/2010	6/1/2020	0	06FA	\$ 2,700,000	\$ -	\$ 2,404,931	\$ 326,534,234
KMEA	AG2-2006-082	1090674	GRDA	WR	1	5/1/2007	5/1/2026	6/1/2011	6/1/2036	6/1/2008	6/1/2027	0	07SP	\$ -	\$ -	\$ 361,469	\$ 291,701,252
KMEA	AG2-2006-083	1090676	GRDA	WR	1	5/1/2010	5/1/2026	6/1/2011	6/1/2027	5/1/2010	5/1/2026	0	11SP	\$ -	\$ -	\$ 361,528	\$ 291,701,252
KMEA	AG2-2006-084	1090548	GRDA	KCPL	1	5/1/2010	5/1/2026					0	11SP	\$ 180,000	\$ -	\$ 118,310	\$ 31,079,803
KPP	AG2-2006-078	1090609	WR	WR	129	10/1/2006	10/1/2016	10/1/2008	10/1/2018	10/1/2006	10/1/2016	0	11SP	\$ 42,480,000	\$ -	\$ 32,690,224	\$ 45,880,000
KPP	AG2-2006-079	1090613	SECI	WPEK	25	10/1/2006	10/1/2016	6/1/2010	6/1/2020	6/1/2010	6/1/2020	0	07SP	\$ -	\$ -	\$ 1,353,697	\$ 267,717,228
KPP	AG2-2006-125	1090612	WPEK	WPEK	13	10/1/2006	10/1/2016	6/1/2011	6/1/2021	10/1/2006	10/1/2016	0	07WP	\$ 1,260,000	\$ -	\$ 78,508,318	\$ -
MECB	AG2-2006-140	1103355	MEC	AECI	100	1/1/2007	1/1/2008	6/1/2010	6/1/2011	6/1/2010	6/1/2011	0	07SP	\$ -	\$ 1,080,000	\$ 1,268,444	\$ 247,105,672
MECB	AG2-2006-140	1103357	MEC	AECI	50	1/1/2007	1/1/2008	6/1/2010	6/1/2011	6/1/2010	6/1/2011	0	07SP	\$ -	\$ 540,000	\$ 634,223	\$ 247,105,672
MIDW	AG2-2006-047	1090244	WR	WR	2	6/1/2008	6/1/2013	6/1/2010	6/1/2015	6/1/2010	6/1/2015	0	11SP	\$ -	\$ -	\$ 141,224	\$ 70,823,803
MIDW	AG2-2006-050	1090329	WR	WR	36	6/1/2010	6/1/2035	6/1/2011	6/1/2036	6/1/2010	6/1/2035	0	11SP	\$ -	\$ -	\$ 1,816,596	\$ 69,875,000

**Table 1 - Long-Term Transmission Service Requests Included the Aggregate System Impact Study**

Customer	Study Number	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Start Date with Redispatch	Stop Date with Redispatch	Minimum Allocated ATC (MW) within reservation period	Season of Minimum Allocated ATC within reservation period	Maximum Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Engineering and Construction Cost of Upgrades Allocated to Customer	Total Engineering and Construction Cost of Upgrades Assigned to Customer
MIDW	AG2-2006-050	1090331	WR	WR	9	6/1/2010	6/1/2035	6/1/2011	6/1/2036	6/1/2010	6/1/2035	0	11SP	\$ -	\$ -	\$ 436,631	\$ 45,000,000
MIDW	AG2-2006-050	1090332	WR	WR	49	6/1/2010	6/1/2035	6/1/2011	6/1/2036	6/1/2010	6/1/2035	0	11SP	\$ -	\$ -	\$ 2,472,605	\$ 69,875,000
MIDW	AG2-2006-050	1090334	WR	WR	11	6/1/2010	6/1/2035	6/1/2011	6/1/2036	6/1/2010	6/1/2035	0	11SP	\$ -	\$ -	\$ 533,644	\$ 45,000,000
MIDW	AG2-2006-051	1090325	WR	WR	24	6/1/2008	6/1/2038	6/1/2011	6/1/2041	1/1/2009	1/1/2039	0	08SP	\$ -	\$ -	\$ 1,164,329	\$ 45,000,000
MIDW	AG2-2006-051	1090327	WR	WR	6	6/1/2008	6/1/2038	6/1/2011	6/1/2041	6/1/2008	6/1/2038	0	08SP	\$ -	\$ -	\$ 274,621	\$ 42,000,000
MIDW	AG2-2006-052	1090245	WR	WR	6	6/1/2008	6/1/2038	6/1/2010	6/1/2015	6/1/2010	6/1/2015	0	11SP	\$ -	\$ -	\$ 219,387	\$ 114,153,180
MIDW	AG2-2006-058	1090377	EES	WR	40	5/1/2010	5/1/2040	6/1/2011	6/1/2041	5/1/2010	5/1/2040	0	11SP	\$ -	\$ -	\$ 3,486,532	\$ 104,035,596
MIDW	AG2-2006-058	1090378	EES	WR	10	5/1/2010	5/1/2040	6/1/2011	6/1/2041	5/1/2010	5/1/2040	0	11SP	\$ -	\$ -	\$ 836,701	\$ 68,841,917
MIDW	AG2-2006-058	1090380	EES	WR	40	5/1/2010	5/1/2040	6/1/2011	6/1/2041	5/1/2010	5/1/2040	0	11SP	\$ -	\$ -	\$ 3,486,532	\$ 104,035,596
MIDW	AG2-2006-058	1090381	EES	WR	10	5/1/2010	5/1/2040	6/1/2011	6/1/2041	5/1/2010	5/1/2040	0	11SP	\$ -	\$ -	\$ 836,701	\$ 68,841,917
MIDW	AG2-2006-058	1090382	EES	WR	20	5/1/2010	5/1/2040	6/1/2011	6/1/2041	5/1/2010	5/1/2040	0	11SP	\$ -	\$ -	\$ 1,726,277	\$ 93,716,917
MIDW	AG2-2006-058	1090383	EES	WR	5	5/1/2010	5/1/2040	6/1/2011	6/1/2041	5/1/2010	5/1/2040	0	11SP	\$ -	\$ -	\$ 404,768	\$ 65,688,803
MIDW	AG2-2006-058	1090385	EES	WR	7	5/1/2010	5/1/2040	6/1/2011	6/1/2041	5/1/2010	5/1/2040	0	11SP	\$ -	\$ -	\$ 585,358	\$ 68,688,803
MIDW	AG2-2006-058	1090386	EES	WR	3	5/1/2010	5/1/2040	6/1/2010	6/1/2040	5/1/2010	5/1/2040	0	11SP	\$ -	\$ -	\$ 10,320	\$ 9,188,803
MIDW	AG2-2006-059	1090388	EES	WR	7	5/1/2010	5/1/2040	6/1/2010	6/1/2040	5/1/2010	5/1/2040	0	11SP	\$ -	\$ -	\$ 310,055	\$ 47,888,803
MIDW	AG2-2006-059	1090389	EES	WR	7	5/1/2010	5/1/2040	6/1/2010	6/1/2040	5/1/2010	5/1/2040	0	11SP	\$ -	\$ -	\$ 310,055	\$ 47,888,803
MIDW	AG2-2006-059	1090390	EES	WR	3	5/1/2010	5/1/2040	6/1/2010	6/1/2040	5/1/2010	5/1/2040	0	11SP	\$ -	\$ -	\$ 23,808	\$ 12,188,803
MIDW	AG2-2006-059	1090391	EES	WR	1	5/1/2010	5/1/2040					1	N/A	\$ -	\$ -	\$ -	\$ -
MIDW	AG2-2006-060	1090392	EES	WR	1	5/1/2010	5/1/2040					1	N/A	\$ -	\$ -	\$ -	\$ -
MIDW	AG2-2006-060	1090393	EES	WR	1	5/1/2010	5/1/2040					1	N/A	\$ -	\$ -	\$ -	\$ -
MIDW	AG2-2006-060	1090394	EES	WR	1	5/1/2010	5/1/2040					1	N/A	\$ -	\$ -	\$ -	\$ -
MIDW	AG2-2006-060	1090395	EES	WR	1	5/1/2010	5/1/2040					1	N/A	\$ -	\$ -	\$ -	\$ -
MIDW	AG2-2006-061	1090396	EES	WR	2	5/1/2010	5/1/2040	6/1/2010	6/1/2040	5/1/2010	5/1/2040	1	16SP	\$ -	\$ -	\$ -	\$ -
MIDW	AG2-2006-061	1090398	EES	WR	2	5/1/2010	5/1/2040	6/1/2010	6/1/2040	5/1/2010	5/1/2040	1	16SP	\$ -	\$ -	\$ -	\$ -
MIDW	AG2-2006-061	1090399	EES	WR	1	5/1/2010	5/1/2040					1	N/A	\$ -	\$ -	\$ -	\$ -
MIDW	AG2-2006-061	1090400	EES	WR	1	5/1/2010	5/1/2040					1	N/A	\$ -	\$ -	\$ -	\$ -
MIDW	AG2-2006-062	1090408	AMRN	WR	40	10/1/2010	10/1/2030	6/1/2011	6/1/2031	10/1/2010	10/1/2030	0	11SP	\$ -	\$ -	\$ 2,726,690	\$ 74,323,803
MIDW	AG2-2006-062	1090411	AMRN	WR	10	10/1/2010	10/1/2030	6/1/2011	6/1/2031	10/1/2010	10/1/2030	0	11SP	\$ -	\$ -	\$ 657,621	\$ 49,448,803
MIDW	AG2-2006-062	1090415	AMRN	WR	20	10/1/2010	10/1/2030	6/1/2011	6/1/2031	10/1/2010	10/1/2030	0	11SP	\$ -	\$ -	\$ 1,363,345	\$ 74,323,803
MIDW	AG2-2006-069	1090417	AMRN	WR	5	10/1/2010	10/1/2030	6/1/2011	6/1/2031	10/1/2010	10/1/2030	0	11SP	\$ -	\$ -	\$ 315,477	\$ 46,448,803
MIDW	AG2-2006-069	1090418	AMRN	WR	7	10/1/2010	10/1/2030	6/1/2011	6/1/2031	10/1/2010	10/1/2030	0	11SP	\$ -	\$ -	\$ 460,352	\$ 49,448,803
MIDW	AG2-2006-069	1090419	AMRN	WR	3	10/1/2010	10/1/2030					0	11WP	\$ -	\$ -	\$ 5,564	\$ 4,123,803
MIDW	AG2-2006-070	1090432	AMRN	WR	7	10/1/2010	10/1/2030					0	11SP	\$ -	\$ -	\$ 126,110	\$ 15,838,803
MIDW	AG2-2006-070	1090434	AMRN	WR	3	10/1/2010	10/1/2030					0	16SP	\$ -	\$ -	\$ 11,435	\$ 4,123,803
MIDW	AG2-2006-070	1090435	AMRN	WR	1	10/1/2010	10/1/2030					1	N/A	\$ -	\$ -	\$ -	\$ -
MIDW	AG2-2006-075	1090541	AMRN	WR	1	10/1/2010	10/1/2030					1	N/A	\$ -	\$ -	\$ -	\$ -
MIDW	AG2-2006-075	1090543	AMRN	WR	1	10/1/2010	10/1/2030					1	N/A	\$ -	\$ -	\$ -	\$ -
MIDW	AG2-2006-075	1090544	AMRN	WR	1	10/1/2010	10/1/2030					1	N/A	\$ -	\$ -	\$ -	\$ -
MIDW	AG2-2006-076	1090558	AMRN	WR	2	10/1/2010	10/1/2030					1	16SP	\$ -	\$ -	\$ -	\$ -
MIDW	AG2-2006-076	1090560	AMRN	WR	1	10/1/2010	10/1/2030					1	N/A	\$ -	\$ -	\$ -	\$ -
MIDW	AG2-2006-076	1090561	AMRN	WR	1	10/1/2010	10/1/2030					1	N/A	\$ -	\$ -	\$ -	\$ -
MIDW	AG2-2006-080	1090622	AMRN	WR	5	5/1/2010	5/1/2030	6/1/2011	6/1/2031	5/1/2010	5/1/2030	0	11SP	\$ -	\$ -	\$ 313,759	\$ 46,448,803
MIDW	AG2-2006-080	1090623	AMRN	WR	7	5/1/2010	5/1/2030	6/1/2011	6/1/2031	5/1/2010	5/1/2030	0	11SP	\$ -	\$ -	\$ 457,851	\$ 49,448,803
MIDW	AG2-2006-080	1090625	AMRN	WR	3	5/1/2010	5/1/2030	6/1/2010	6/1/2030	5/1/2010	5/1/2030	0	11WP	\$ -	\$ -	\$ 6,260	\$ 4,123,803
MIDW	AG2-2006-080	1090652	AMRN	WR	40	5/1/2010	5/1/2030	6/1/2011	6/1/2031	5/1/2010	5/1/2030	0	11SP	\$ -	\$ -	\$ 2,711,080	\$ 74,476,917
MIDW	AG2-2006-080	1090655	AMRN	WR	10	5/1/2010	5/1/2030	6/1/2011	6/1/2031	5/1/2010	5/1/2030	0	11SP	\$ -	\$ -	\$ 654,567	\$ 49,601,917
MIDW	AG2-2006-080	1090661	AMRN	WR	20	5/1/2010	5/1/2030	6/1/2011	6/1/2031	5/1/2010	5/1/2030	0	11SP	\$ -	\$ -	\$ 1,355,541	\$ 74,476,917
MIDW	AG2-2006-085	1090667	AMRN	WR	7	5/1/2010	5/1/2030	6/1/2010	6/1/2030	5/1/2010	5/1/2030	0	11SP	\$ -	\$ -	\$ 128,904	\$ 15,838,803
MIDW	AG2-2006-085	1090669	AMRN	WR	3	5/1/2010	5/1/2030	6/1/2010	6/1/2030	5/1/2010	5/1/2030	0	11WP	\$ -	\$ -	\$ 12,131	\$ 4,123,803
MIDW	AG2-2006-085	1090670	AMRN	WR	1	5/1/2010	5/1/2030					1	N/A	\$ -	\$ -	\$ -	\$ -
MIDW	AG2-2006-096	1091026	WR	WR	3	6/1/2008	6/1/2038	6/1/2010	6/1/2040	6/1/2010	6/1/2040	0	11SP	\$ -	\$ -	\$ 94,611	\$ 67,864,639
MIDW	AG2-2006-096	1091027	WR	WR	7	6/1/2008	6/1/2038	6/1/2010	6/1/2040	6/1/2010	6/1/2040	0	11SP	\$ -	\$ -	\$ 294,851	\$ 168,885,256
MIDW	AG2-2006-096	1091028	WR	WR	8	6/1/2008	6/1/2038	6/1/2011	6/1/2041	1/1/2009	1/1/2039	0	11SP	\$ -	\$ -	\$ 147,905	\$ 67,164,639
MIDW	AG2-2006-096	1091030	WR	WR	17	6/1/2008	6/1/2038	6/1/2010	6/1/2040	6/1/2010	6/1/2040	0	11SP	\$ -	\$ -	\$ 797,004	\$ 225,185,322
MIDW	AG2-2006-096	1091031	WR	WR	20	6/1/2008	6/1/2038	6/1/2010	6/1/2040	6/1/2010	6/1/2040	0	11SP	\$ -	\$ -	\$ 937,683	\$ 225,185,322
MIDW	AG2-2006-096	1091032	WR	WR	10	6/1/2008	6/1/2038	6/1/2010	6/1/2040	6/1/2010	6/1/2040	0	11SP	\$ -	\$ -	\$ 458,829	\$ 222,185,322
MIDW	AG2-2006-096	1091066	WR	WR	17	6/1/2008	6/1/2013	6/1/2011	6/1/2016	6/1/2010	6/1/2015	0	11SP	\$ -	\$ -	\$ 1,023,642	\$ 224,323,797
MIDW	AG2-2006-097	1090917	WR	WR	20	6/1/2008	6/1/2038	6/1/2011	6/1/2041	6/1/2008	6/1/2038	0	11SP	\$ -	\$ -	\$ 247,771	\$ 200,761,453
MIDW	AG2-2006-097	1090919	WR	WR	5	6/1/2008	6/1/2038	6/1/2011	6/1/2041	6/1/2008	6/1/2038	0	11SP	\$ -	\$ -	\$ 48,864,639	\$ 48,864,639
MIDW	AG2-2006-097	1090920	WR	WR	40	6/1/2008	6/1/2038	6/1/2011	6/1/2041	6/1/2008	6/1/2038	0	11SP	\$ -	\$ -	\$ 495,542	\$ 200,761,453
MIDW	AG2-2006-097	1090921	WR	WR	10	6/1/2008	6/1/2038	6/1/2011	6/1/2041	6/1/2008	6/1/2038	0	11SP	\$ -	\$ -	\$ 123,882	\$ 200,761,453

**Table 1 - Long-Term Transmission Service Requests Included the Aggregate System Impact Study**

Customer	Study Number	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Start Date with Redispatch	Stop Date with Redispatch	Minimum Allocated ATC (MW) within reservation period	Season of Minimum Allocated ATC within reservation period	Maximum Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Engineering and Construction Cost of Upgrades Allocated to Customer	Total Engineering and Construction Cost of Upgrades Assigned to Customer
MIDW	AG2-2006-097	1090922	WR	WR	50	6/1/2008	6/1/2038	6/1/2011	6/1/2041	1/1/2009	1/1/2039	0	08WP	\$ -	\$ -	\$ 1,087,397	\$ 203,761,453
MIDW	AG2-2006-097	1090923	WR	WR	11	6/1/2008	6/1/2038	6/1/2011	6/1/2041	1/1/2009	1/1/2039	0	08WP	\$ -	\$ -	\$ 212,540	\$ 106,864,639
MIDW	AG2-2006-097	1090929	WR	WR	107	6/1/2008	6/1/2038	6/1/2011	6/1/2041	6/1/2008	6/1/2038	0	11SP	\$ -	\$ -	\$ 1,325,591	\$ 200,761,453
MIDW	AG2-2006-097	1090930	WR	WR	25	6/1/2008	6/1/2038	6/1/2011	6/1/2041	6/1/2008	6/1/2038	0	11SP	\$ -	\$ -	\$ 309,716	\$ 200,761,453
MIDW	AG2-2006-097	1090931	WR	WR	121	6/1/2008	6/1/2038	6/1/2011	6/1/2041	6/1/2008	6/1/2038	0	11SP	\$ -	\$ -	\$ 1,499,010	\$ 200,761,453
MIDW	AG2-2006-097	1090932	WR	WR	29	6/1/2008	6/1/2038	6/1/2011	6/1/2041	6/1/2008	6/1/2038	0	11SP	\$ -	\$ -	\$ 359,276	\$ 200,761,453
MIDW	AG2-2006-097	1090934	WR	WR	60	6/1/2008	6/1/2038	6/1/2011	6/1/2041	6/1/2008	6/1/2038	0	11SP	\$ -	\$ -	\$ 743,312	\$ 200,761,453
MIDW	AG2-2006-097	1090935	WR	WR	15	6/1/2008	6/1/2038	6/1/2011	6/1/2041	6/1/2008	6/1/2038	0	11SP	\$ -	\$ -	\$ 185,807	\$ 200,761,453
MIDW	AG2-2006-098	1090958	WR	WR	3	6/1/2008	6/2/2038	6/1/2010	6/1/2040	6/1/2010	6/1/2040	0	11SP	\$ -	\$ -	\$ 65,893	\$ 61,864,639
MIDW	AG2-2006-098	1091043	WR	WR	1	6/1/2008	6/1/2038	6/1/2010	6/1/2040	6/1/2008	6/1/2038	0	11SP	\$ -	\$ -	\$ 2,043	\$ 1,164,639
MIDW	AG2-2006-098	1091044	WR	WR	2	6/1/2008	6/1/2038	6/1/2010	6/1/2040	6/1/2010	6/1/2040	0	11SP	\$ -	\$ -	\$ 43,938	\$ 61,864,639
MIDW	AG2-2006-098	1091045	WR	WR	2	6/1/2008	6/1/2038	6/1/2011	6/1/2041	1/1/2009	1/1/2039	0	11WP	\$ -	\$ -	\$ -	\$ -
MIDW	AG2-2006-098	1091047	WR	WR	5	6/1/2008	6/1/2038	6/1/2010	6/1/2040	6/1/2010	6/1/2040	0	11SP	\$ -	\$ -	\$ 109,812	\$ 61,864,639
MIDW	AG2-2006-098	1091048	WR	WR	6	6/1/2008	6/1/2038	6/1/2010	6/1/2040	6/1/2010	6/1/2040	0	11SP	\$ -	\$ -	\$ 183,381	\$ 158,761,453
MIDW	AG2-2006-099	1091034	WR	WR	1	6/1/2008	6/1/2038	6/1/2010	6/1/2040	6/1/2008	6/1/2038	0	11SP	\$ -	\$ -	\$ 1,839	\$ 1,164,639
MIDW	AG2-2006-099	1091035	WR	WR	1	6/1/2008	6/1/2038	6/1/2010	6/1/2040	6/1/2008	6/1/2038	0	11SP	\$ -	\$ -	\$ 1,839	\$ 1,164,639
MIDW	AG2-2006-099	1091036	WR	WR	1	6/1/2008	6/1/2038	6/1/2011	6/1/2041	6/1/2008	6/1/2038	1	16SP	\$ -	\$ -	\$ -	\$ -
MIDW	AG2-2006-099	1091039	WR	WR	3	6/1/2008	6/1/2038	6/1/2010	6/1/2040	6/1/2010	6/1/2040	0	11SP	\$ -	\$ -	\$ 175,553	\$ 67,864,639
MIDW	AG2-2006-099	1091040	WR	WR	3	6/1/2008	6/1/2038	6/1/2010	6/1/2040	6/1/2010	6/1/2040	0	11SP	\$ -	\$ -	\$ 175,553	\$ 67,864,639
MIDW	AG2-2006-099	1091041	WR	WR	2	6/1/2008	6/1/2038	6/1/2010	6/1/2040	6/1/2010	6/1/2040	0	11SP	\$ -	\$ -	\$ 119,514	\$ 67,864,639
MIDW	AG2-2006-100	1090694	AMRN	WR	2	5/1/2010	5/1/2030	6/1/2010	6/1/2030	5/1/2010	5/1/2030	1	16SP	\$ -	\$ -	\$ 4,109	\$ 4,123,803
MIDW	AG2-2006-100	1090735	AMRN	WR	1	5/1/2010	5/1/2030					1	N/A	\$ -	\$ -	\$ -	\$ -
MIDW	AG2-2006-100	1090737	AMRN	WR	1	5/1/2010	5/1/2030					1	N/A	\$ -	\$ -	\$ -	\$ -
MIDW	AG2-2006-101	1090679	AMRN	WR	1	5/1/2010	5/1/2030					1	N/A	\$ -	\$ -	\$ -	\$ -
MIDW	AG2-2006-101	1090683	AMRN	WR	1	5/1/2010	5/1/2030					1	N/A	\$ -	\$ -	\$ -	\$ -
MIDW	AG2-2006-101	1090684	AMRN	WR	1	5/1/2010	5/1/2030					1	N/A	\$ -	\$ -	\$ -	\$ -
MIDW	AG2-2006-106	1090964	WR	WR	35	1/1/2007	1/1/2012	6/1/2011	6/1/2016	1/1/2009	1/1/2014	0	07SP	\$ 4,500,000	\$ -	\$ 1,687,466	\$ 95,159,639
MIDW	AG2-2006-106	1090965	WR	WR	10	1/1/2007	1/1/2012	6/1/2011	6/1/2016	1/1/2009	1/1/2014	0	07SP	\$ 1,800,000	\$ -	\$ 372,741	\$ 58,800,000
MIDW	AG2-2006-107	1090816	WR	WR	25	6/1/2007	6/1/2027	6/1/2011	6/1/2031	1/1/2009	1/1/2029	0	07SP	\$ 4,500,000	\$ -	\$ 1,059,915	\$ 67,720,000
MIDW	AG2-2006-107	1090817	WR	WR	25	6/1/2007	6/1/2017	6/1/2011	6/1/2021	1/1/2009	1/1/2019	0	07SP	\$ -	\$ -	\$ 1,059,915	\$ 67,720,000
MIDW	AG2-2006-108	1090747	WR	WR	15	6/1/2008	6/1/2028	6/1/2011	6/1/2031	1/1/2009	1/1/2029	0	08WP	\$ -	\$ -	\$ 599,143	\$ 60,200,000
MIDW	AG2-2006-108	1090748	WR	WR	5	6/1/2008	6/1/2028	6/1/2011	6/1/2031	1/1/2009	1/1/2029	0	08WP	\$ -	\$ -	\$ 61,362	\$ 45,000,000
MIDW	AG2-2006-108	1090756	WR	WR	15	6/1/2008	6/1/2018	6/1/2011	6/1/2021	1/1/2009	1/1/2019	0	08WP	\$ -	\$ -	\$ 599,143	\$ 60,200,000
MIDW	AG2-2006-108	1090757	WR	WR	5	6/1/2008	6/1/2018	6/1/2011	6/1/2021	1/1/2009	1/1/2019	0	08WP	\$ -	\$ -	\$ 61,362	\$ 45,000,000
MIDW	AG2-2006-108	1090826	WR	WR	40	6/1/2008	6/1/2028	6/1/2011	6/1/2031	1/1/2009	1/1/2029	0	08WP	\$ -	\$ -	\$ 1,926,698	\$ 95,159,639
MIDW	AG2-2006-108	1090827	WR	WR	40	6/1/2008	6/1/2028	6/1/2011	6/1/2031	1/1/2009	1/1/2029	0	08WP	\$ -	\$ -	\$ 1,926,698	\$ 95,159,639
MIDW	AG2-2006-108	1090828	WR	WR	19	6/1/2008	6/1/2028	6/1/2011	6/1/2031	1/1/2009	1/1/2029	0	08WP	\$ -	\$ -	\$ 758,930	\$ 60,200,000
MIDW	AG2-2006-108	1090829	WR	WR	15	6/1/2008	6/1/2028	6/1/2011	6/1/2031	1/1/2009	1/1/2029	0	08WP	\$ -	\$ -	\$ 599,143	\$ 60,200,000
MIDW	AG2-2006-108	1090839	WR	WR	40	6/1/2008	6/1/2018	6/1/2011	6/1/2021	1/1/2009	1/1/2019	0	08WP	\$ -	\$ -	\$ 1,926,698	\$ 95,159,639
MIDW	AG2-2006-108	1090841	WR	WR	40	6/1/2008	6/1/2018	6/1/2011	6/1/2021	1/1/2009	1/1/2019	0	08WP	\$ -	\$ -	\$ 1,926,698	\$ 95,159,639
MIDW	AG2-2006-108	1090844	WR	WR	10	6/1/2008	6/1/2028	6/1/2011	6/1/2031	1/1/2009	1/1/2029	0	11SP	\$ -	\$ -	\$ 372,741	\$ 58,800,000
MIDW	AG2-2006-108	1090845	WR	WR	10	6/1/2008	6/1/2028	6/1/2011	6/1/2031	1/1/2009	1/1/2029	0	11SP	\$ -	\$ -	\$ 372,741	\$ 58,800,000
MIDW	AG2-2006-108	1090847	WR	WR	6	6/1/2008	6/1/2028	6/1/2011	6/1/2031	1/1/2009	1/1/2029	0	11WP	\$ -	\$ -	\$ 206,848	\$ 55,800,000
MIDW	AG2-2006-108	1090852	WR	WR	10	6/1/2008	6/1/2018	6/1/2011	6/1/2021	1/1/2009	1/1/2019	0	11SP	\$ -	\$ -	\$ 372,741	\$ 58,800,000
MIDW	AG2-2006-108	1090853	WR	WR	19	6/1/2008	6/1/2018	6/1/2011	6/1/2021	1/1/2009	1/1/2019	0	08WP	\$ -	\$ -	\$ 758,930	\$ 60,200,000
MIDW	AG2-2006-108	1090854	WR	WR	6	6/1/2008	6/1/2018	6/1/2011	6/1/2021	1/1/2009	1/1/2019	0	11WP	\$ -	\$ -	\$ 206,848	\$ 55,800,000
MIDW	AG2-2006-108	1091052	WR	WR	10	6/1/2008	6/1/2013	6/1/2011	6/1/2016	1/1/2009	1/1/2014	0	11SP	\$ -	\$ -	\$ 372,741	\$ 58,800,000
MIDW	AG2-2006-108	1091053	WR	WR	20	6/1/2008	6/1/2013	6/1/2011	6/1/2016	1/1/2009	1/1/2014	0	08WP	\$ -	\$ -	\$ 798,872	\$ 60,200,000
MIDW	AG2-2006-108	1091055	WR	WR	30	6/1/2008	6/1/2013	6/1/2011	6/1/2016	1/1/2009	1/1/2014	0	08WP	\$ -	\$ -	\$ 1,451,198	\$ 95,159,639
MIDW	AG2-2006-108	1091057	WR	WR	10	6/1/2008	6/1/2018	6/1/2011	6/1/2021	1/1/2009	1/1/2019	0	11SP	\$ -	\$ -	\$ 372,741	\$ 58,800,000
MIDW	AG2-2006-109	1090851	WR	WR	5	6/1/2011	6/1/2031					0	11WP	\$ -	\$ -	\$ 61,362	\$ 45,000,000
MIDW	AG2-2006-109	1090855	WR	WR	15	6/1/2011	6/1/2021					0	11SP	\$ -	\$ -	\$ 599,143	\$ 60,200,000
MIDW	AG2-2006-109	1090856	WR	WR	5	6/1/2011	6/1/2021					0	11WP	\$ -	\$ -	\$ 61,362	\$ 45,000,000
MIDW	AG2-2006-110	1090750	WR	WR	15	6/1/2015	6/1/2035					0	16SP	\$ -	\$ -	\$ 417,182	\$ 16,800,000
MIDW	AG2-2006-110	1090751	WR	WR	5	6/1/2015	6/1/2035					0	16SP	\$ -	\$ -	\$ 14,039	\$ 3,000,000
MIDW	AG2-2006-110	1090759	WR	WR	5	6/1/2015	6/1/2025					0	16SP	\$ -	\$ -	\$ 14,039	\$ 3,000,000
MIDW	AG2-2006-110	1091068	WR	WR	15	6/1/2015	6/1/2025					0	16SP	\$ -	\$ -	\$ 417,182	\$ 16,800,000
MIDW	AG2-2006-118	1090959	SECI	WR	75	6/1/2011	6/1/2041					0	11SP	\$ -	\$ -	\$ 2,959,267	\$ 222,823,797
OGE	AG2-2006-035	1087908	OKGE	EES	10	12/1/2006	12/1/2011	6/1/2010	6/1/2015	12/1/2006	12/1/2011	0	06WP	\$ -	\$ 540,000	\$ 514,557	\$ 204,980,493
PNMM	AG2-2006-089	1090813	SECI	BLKW	75	6/1/2011	6/1/2041					0	11SP	\$ -	\$ 39,177,000	\$ 21,683,434	\$ 248,824,696
PNMM	AG2-2006-089	1090814	SECI	BLKW	75	6/1/2011	6/1/2041					0	11SP	\$ -	\$ 39,177,000	\$ 21,683,434	\$ 248,824,696

**Table 1 - Long-Term Transmission Service Requests Included the Aggregate System Impact Study**

Customer	Study Number	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Start Date with Redispatch	Stop Date with Redispatch	Minimum Allocated ATC (MW) within reservation period	Season of Minimum Allocated ATC within reservation period	Maximum Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Engineering and Construction Cost of Upgrades Allocated to Customer	Total Engineering and Construction Cost of Upgrades Assigned to Customer
SEPC	AG2-2006-043	1090236	SECI	WPEK	150	6/1/2011	6/1/2041					0	11SP	\$ -	\$ 52,812,000	\$ 14,614,226	\$ 307,954,234
SHDY	AG2-2006-019	1085305	OKGE	CSWS	320	1/8/2008	1/8/2009					128	08SP	\$ -	\$ 4,032,000	\$ -	\$ -
SHDY	AG2-2006-020	1085306	OKGE	GRDA	320	1/8/2008	1/8/2009					320	N/A	\$ -	\$ 9,523,200	\$ -	\$ -
SHDY	AG2-2006-021	1085307	OKGE	EES	320	1/8/2008	1/8/2009					320	N/A	\$ -	\$ 3,456,000	\$ -	\$ -
SPSM	AG2-2006-072	1090680	CSWS	BLKW	50	10/1/2006	3/1/2012	6/1/2011	6/1/2016	6/1/2010	6/1/2015	0	06FA	\$ -	\$ 2,357,873	\$ 12,200,861	\$ 284,286,582
SPSM	AG2-2006-073	1090698	OKGE	EDDY	30	1/1/2007	1/1/2013	6/1/2011	6/1/2017	6/1/2010	6/1/2016	0	07AP	\$ -	\$ 3,134,160	\$ 7,632,601	\$ 286,821,582
SPSM	AG2-2006-074	1090699	WPEK	KCPL	50	10/1/2006	10/1/2007	6/1/2011	6/1/2012	6/1/2010	6/1/2011	0	06WP	\$ -	\$ 528,000	\$ 5,053,527	\$ 255,182,589
SPSM	AG2-2006-124	1090705	WPEK	KCPL	50	10/1/2006	10/1/2007	6/1/2011	6/1/2012	6/1/2010	6/1/2011	0	06WP	\$ -	\$ 528,000	\$ 5,053,527	\$ 255,182,589
UCU	AG2-2006-006	1052923	KCPL	MPS	160	6/1/2010	6/1/2030					0	11SP	\$ 28,800,000	\$ 61,862,400	\$ 2,694,317	\$ 10,123,803
UCU	AG2-2006-071	1090573	EES	MPS	100	6/1/2010	6/1/2040					0	11SP	\$ -	\$ 57,996,000	\$ 2,902,555	\$ 41,888,803
UCU	AG2-2006-071	1090578	EES	MPS	50	6/1/2010	6/1/2040					0	11SP	\$ -	\$ 28,998,000	\$ 1,451,257	\$ 41,888,803
WRGS	AG2-2006-015	1076157	KCPL	AECI	30	6/1/2010	6/1/2015					0	11SP	\$ -	\$ 1,620,000	\$ 407,442	\$ 10,123,803
WRGS	AG2-2006-016	1076158	KCPL	AMRN	20	6/1/2010	6/1/2015					0	11SP	\$ -	\$ 1,080,000	\$ 271,621	\$ 10,123,803
WRGS	AG2-2006-030	1086655	OKGE	WR	225	10/1/2006	10/1/2026	6/1/2011	6/1/2031	6/1/2008	6/1/2028	0	07AP	\$ 40,500,000	\$ -	\$ 30,496,115	\$ 288,713,941
WRGS	AG2-2006-030	1086656	OKGE	WR	75	10/1/2006	10/1/2026	6/1/2011	6/1/2031	6/1/2008	6/1/2028	0	07AP	\$ 13,500,000	\$ -	\$ 10,165,414	\$ 288,713,941

<sup>1</sup> 25MW potential base plan funding for year 2007 for KBPU

<sup>2</sup> Additional 15 MW potential base plan funding for year 2007 for KMEA.

<sup>3</sup> Potential base plan funding is based on assumption that 1032991 from 2006-AG1 will be confirmed. If confirmed, then 7MW additional beyond the 85MW previously allocated is available for base funding in 2008.

<sup>4</sup> 236MW of 250MW resources forecast eligible for potential base base plan funding for year 2007.

<sup>5</sup> Midwest has a load estimate of 336MW for the combined M and W system for 2011. Thus total Base plan funding available for 2011 is capped at 420MW of Total resources.

<sup>6</sup> Kaw Valley has a load estimate of 39MW for 2010. Thus 10MW is the cap for additional resources eligible for base plan funding up to a total of 49MW. This equates to \$1,800,000 of potential base funding for a new or changed designated resource.

<sup>7</sup> Kaw Valley has a load estimate of 38MW for 2008. Thus 9MW is the cap for additional resources eligible for base plan funding up to a total of 47MW. This equates to \$1,620,000 of potential base funding for a new or changed designated resource.

<sup>8</sup> Total Base plan funding available for 2008 to serve combined M and W system Midwest load based on 333MW of load is up to 416 MW of resources or 102 Additional MW more than forecast. This equates to \$18,360,000 potential base plan funding for the full 102 MW for 2008.

<sup>9</sup> Midwest has a load estimate of 335MW for the combined M and W system for 2010. Thus total Base plan funding available for 2010 is capped at 419MW of Total resources.

<sup>10</sup> NMEC has a load estimate of 12MW for 2010. Thus 3MW is the cap for additional resources eligible for base plan funding up to a total of 15MW. This equates to \$540,000 of potential base funding for a new or changed designated resource.

<sup>11</sup> NMEC has a load estimate of 12MW for 2008. Thus 3MW is the cap for additional resources eligible for base plan funding up to a total of 15MW. This equates to \$540,000 of potential base funding for a new or changed designated resource.

<sup>12</sup> Doniphan has a load estimate of 5MW for 2010. Thus 1MW is the cap for additional resources eligible for base plan funding up to a total of 6MW of resources. This equates to \$180,000 of potential base funding for a new or changed designated resource.

<sup>13</sup> Doniphan has a load estimate of 5MW for 2008. Thus 1MW is the cap for additional resources eligible for base plan funding up to a total of 6MW of resources. This equates to \$180,000 of potential base funding for a new or changed designated resource.

<sup>14</sup> Kaw Valley has a load estimate of 40MW for 2015. Thus 10MW is the cap for additional resources eligible for base plan funding up to a total of 50MW. This equates to \$1,800,000 of potential base funding for a new or changed designated resource.

<sup>15</sup> Kaw Valley has a load estimate of 39MW for 2011. Thus 10MW is the cap for additional resources eligible for base plan funding up to a total of 49MW. This equates to \$1,800,000 of potential base funding for a new or changed designated resource.

<sup>16</sup> Midwest has a load estimate of 343MW for the combined M and W system for 2015. Thus total Base plan funding available for 2015 is capped at 429MW of Total resources.

<sup>17</sup> Up to 425MW of resources allowable for base funding for year 2007 based on 332MW load.

<sup>18</sup> NMEC has a load estimate of 12MW for 2015. Thus 3MW is the cap for additional resources eligible for base plan funding up to a total of 15MW. This equates to \$540,000 of potential base funding for a new or changed designated resource.

<sup>19</sup> NMEC has a load estimate of 12MW for 2011. Thus 3MW is the cap for additional resources eligible for base plan funding up to a total of 15MW. This equates to \$540,000 of potential base funding for a new or changed designated resource.

<sup>20</sup> Doniphan has a load estimate of 6MW for 2015. Thus 1MW is the cap for additional resources eligible for base plan funding up to a total of 7MW of resources. This equates to \$180,000 of potential base funding for a new or changed designated resource.

<sup>21</sup> Doniphan has a load estimate of 5MW for 2011. Thus 1MW is the cap for additional resources eligible for base plan funding up to a total of 6MW of resources. This equates to \$180,000 of potential base funding for a new or changed designated resource.

<sup>22</sup> Disregard Redispatch shown in Table 5 for limitations identified earlier than the start date with redispatch with the exception of limitations identified in the 2006 Fall Peak, 2007 Spring Peak, 2007 April Minimum, 2007 Summer Shoulder, and 2007 Fall Peak.

**Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade**

**Customer Study Number**  
 AECC AG2-2006-017

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
AECC	1079577	CSWS	EES	25	1/1/2007	1/1/2009	10/1/2008	10/1/2010	\$ -	\$ 540,000	\$ 711,015	\$ -
									\$ -	\$ 540,000	\$ 711,015	\$ 4,000,000

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1079577	BROKEN BOW - CRAIG JUNCTION 138KV CKT 1	12/1/2006	6/1/2008		Yes	\$ 711,015	\$ 4,000,000
						<b>Total</b>	<b>\$ 711,015</b>

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
1079577	Chamber Springs - Tontitown 345 kV	6/1/2007	6/1/2009	10/1/2008	No

**Customer Study Number**  
 AECC AG2-2006-039

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
AECC	1089945	WR	CSWS	50	12/1/2007	12/1/2027	6/1/2009	6/1/2029	\$ 900,000	\$ -	\$ 4,704,524	\$ -
									\$ 900,000	\$ -	\$ 4,704,524	\$ 11,350,000

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1089945	BANN - NW TEXARKANA-BANN T 138KV CKT 1	6/1/2011	6/1/2011			\$ 2,793	\$ 20,000
	BROKEN BOW - CRAIG JUNCTION 138KV CKT 1	12/1/2006	6/1/2008		Yes	\$ 1,287,199	\$ 4,000,000
	KANSAS TAP - WEST SILOAM SPRINGS 161KV CKT 1	6/1/2016	6/1/2016			\$ 2,032,144	\$ 2,244,000
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER	6/1/2007	4/1/2008	10/1/2007	No	\$ 412,501	\$ 4,000,000
	SILOAM CITY - WEST SILOAM SPRINGS 161KV CKT 1	6/1/2016	6/1/2016			\$ 969,887	\$ 1,071,000
	SUB 389 - JOPLIN SOUTHWEST - SUB 422 - JOPLIN 24TH & CONNECTICUT 161KV CKT 1	6/1/2008	6/1/2008			\$ 15,000	\$ 15,000
						<b>Total</b>	<b>\$ 4,719,524</b>

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
1089945	ALUMAX TAP - NORTHWEST TEXARKANA 138KV CKT 1	6/1/2007	3/1/2008	10/1/2007	No
	BONANZA - BONANZA TAP 161KV CKT 1	6/1/2013	6/1/2013		
	Siloam Springs - South Fayetteville 161 kV	6/1/2015	6/1/2015		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1089945	Flint Creek - East Centerton 161KV CKT 1	6/1/2011	6/1/2011		
	Chamber Springs - Tontitown 345 kV	6/1/2007	6/1/2009	10/1/2008	No
	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		

**Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade**

**Customer Study Number**  
 AECC AG2-2006-064

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
AECC	1090457	WR	EES	50	12/1/2007	12/1/2027	12/1/2007	12/1/2027	\$ -	\$ 10,800,000	\$ 412,634	\$ -
									\$ -	\$ 10,800,000	\$ 412,634	\$ 4,000,000

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090457	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER	6/1/2007	4/1/2008	10/1/2007	No	\$ 412,634	\$ 4,000,000
						<b>Total</b>	<b>\$ 412,634</b>

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
1090457	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1	12/1/2011	12/1/2011		

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
1090457	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
AEPM AG2-2006-024

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
AEPM	1086235	WFEC	CSWS	80	7/1/2007	7/1/2027	6/1/2010	6/1/2030	\$ 720,000	\$ -	\$19,654,972	\$ -
AEPM	1086238	WFEC	CSWS	16	7/1/2007	7/1/2027	6/1/2010	6/1/2030	\$ 180,000	\$ -	\$ 3,931,034	\$ -
									\$ 900,000	\$ -	\$23,586,006	\$ 418,661,212

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1086235	36TH & LEWIS - 52ND & DELAWARE TAP 138KV CKT 1	6/1/2011	6/1/2011			\$ 583	\$ 15,000
	BANN - NW TEXARKANA-BANN T 138KV CKT 1	6/1/2011	6/1/2011			\$ 5,233	\$ 20,000
	CRESWELL - NEWKIRK 138KV CKT 1	6/1/2011	6/1/2011			\$ 74,678	\$ 4,740,000
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	4/1/2007	6/1/2010		No	\$ 482	\$ 1,515,113
	FT SUPPLY - WOODWARD 69KV CKT 1	10/1/2007	2/1/2008			\$ 3,750,000	\$ 4,500,000
	FT SUPPLY 138/69KV TRANSFORMER CKT 1	6/1/2007	6/1/2008		Yes	\$ 1,250,000	\$ 1,500,000
	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	6/1/2008	6/1/2008			\$ 41,667	\$ 50,000
	HAMON BUTLER - MOREWOOD 69KV CKT 1	6/1/2007	6/1/2007			\$ 2,352,269	\$ 3,400,000
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		No	\$ 6,563,518	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 173,828	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 1,154,463	\$ 5,000,000
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 719	\$ 3,200,000
	SOUTHWEST SHREVEPORT - SOUTHWEST SHREVEPORT TAP 138KV CKT 1	6/1/2009	6/1/2009			\$ 123,705	\$ 1,300,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 2,414,905	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 1,635,903	\$ 21,000,000
	Tuco - Tolk 345kV	4/1/2007	6/1/2010		No	\$ 83,250	\$ 24,875,000
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 29,769	\$ 10,318,679
					Total	\$ 19,654,972	\$ 209,330,606
1086238	36TH & LEWIS - 52ND & DELAWARE TAP 138KV CKT 1	6/1/2011	6/1/2011			\$ 117	\$ 15,000
	BANN - NW TEXARKANA-BANN T 138KV CKT 1	6/1/2011	6/1/2011			\$ 1,047	\$ 20,000
	CRESWELL - NEWKIRK 138KV CKT 1	6/1/2011	6/1/2011			\$ 14,937	\$ 4,740,000
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	4/1/2007	6/1/2010		No	\$ 99	\$ 1,515,113
	FT SUPPLY - WOODWARD 69KV CKT 1	10/1/2007	2/1/2008			\$ 750,000	\$ 4,500,000
	FT SUPPLY 138/69KV TRANSFORMER CKT 1	6/1/2007	6/1/2008		Yes	\$ 250,000	\$ 1,500,000
	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	6/1/2008	6/1/2008			\$ 8,333	\$ 50,000
	HAMON BUTLER - MOREWOOD 69KV CKT 1	6/1/2007	6/1/2007			\$ 470,506	\$ 3,400,000
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		No	\$ 1,312,704	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 34,766	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 230,892	\$ 5,000,000
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 135	\$ 3,200,000
	SOUTHWEST SHREVEPORT - SOUTHWEST SHREVEPORT TAP 138KV CKT 1	6/1/2009	6/1/2009			\$ 24,739	\$ 1,300,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 482,979	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 327,179	\$ 21,000,000
	Tuco - Tolk 345kV	4/1/2007	6/1/2010		No	\$ 16,647	\$ 24,875,000
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 5,954	\$ 10,318,679
					Total	\$ 3,931,034	\$ 209,330,606

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
1086235	ALUMAX TAP - NORTHWEST TEXARKANA 138KV CKT 1	6/1/2007	3/1/2008	10/1/2007	Yes
	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
1086238	LINWOOD - MCWILLIE STREET 138KV CKT 1	6/1/2007	6/1/2007		
	ALUMAX TAP - NORTHWEST TEXARKANA 138KV CKT 1	6/1/2007	3/1/2008	10/1/2007	Yes
	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	LINWOOD - MCWILLIE STREET 138KV CKT 1	6/1/2007	6/1/2007		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1086235	FPL SWITCH - MOORELAND 138KV CKT 1 OKGE	12/1/2007	6/1/2008		No
	FPL SWITCH - MOORELAND 138KV CKT 1 WFEC	12/1/2007	6/1/2008		No
	KNOBHILL (KNOBHILL4) 138/69/13.2KV TRANSFORMER CKT 1	6/1/2008	6/1/2008		
1086238	FPL SWITCH - MOORELAND 138KV CKT 1 OKGE	12/1/2007	6/1/2008		No
	FPL SWITCH - MOORELAND 138KV CKT 1 WFEC	12/1/2007	6/1/2008		No
	KNOBHILL (KNOBHILL4) 138/69/13.2KV TRANSFORMER CKT 1	6/1/2008	6/1/2008		

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
1086235	Morewood Conversion	12/1/2011	6/1/2008		
1086238	Morewood Conversion	12/1/2011	6/1/2008		



**Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade**

**Customer Study Number**  
 AEPM AG2-2006-025

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
AEPM	1086246	CSWS	CSWS	200	1/1/2008	1/1/2010	1/1/2008	1/1/2010	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1086246	None					\$ -	\$ -
						Total	\$ -

**Customer Study Number**  
 AEPM AG2-2006-033

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
AEPM	1087745	EES	CSWS	225	1/1/2007	1/1/2010	6/1/2010	6/1/2013	\$ -	\$ -	\$ 6,000,279	\$ -
									\$ -	\$ -	\$ 6,000,279	\$ 18,325,000

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1087745	CLARENCE - MONTGOMERY 230KV CKT 1	6/1/2011	6/1/2011			\$ 1,061,938	\$ 2,200,000
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1	6/1/2007	6/1/2009	10/1/2007	Yes	\$ 2,749,153	\$ 9,000,000
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2011	6/1/2011			\$ 79,192	\$ 325,000
	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1	6/1/2010	6/1/2010			\$ 1,680,038	\$ 5,500,000
	SOUTHWEST SHREVEPORT - SOUTHWEST SHREVEPORT TAP 138KV CKT 1	6/1/2009	6/1/2009			\$ 429,958	\$ 1,300,000
						Total	\$ 6,000,279

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
1087745	LINWOOD - MCWILLIE STREET 138KV CKT 1	6/1/2007	6/1/2007		

**Customer Study Number**  
 AEPM AG2-2006-034

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
AEPM	1087757	CSWS	CSWS	172	6/1/2008	6/1/2028	6/1/2010	6/1/2030	\$ 15,480,000	\$ -	\$ 285,341	\$ -
									\$ 15,480,000	\$ -	\$ 285,341	\$ 1,335,000

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1087757	36TH & LEWIS - 52ND & DELAWARE TAP 138KV CKT 1	6/1/2011	6/1/2011			\$ 3,732	\$ 15,000
	BANN - NW TEXARKANA-BANN T 138KV CKT 1	6/1/2011	6/1/2011			\$ 10,927	\$ 20,000
	SOUTHWEST SHREVEPORT - SOUTHWEST SHREVEPORT TAP 138KV CKT 1	6/1/2009	6/1/2009			\$ 270,682	\$ 1,300,000
						Total	\$ 285,341

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
1087757	ALUMAX TAP - NORTHWEST TEXARKANA 138KV CKT 1	6/1/2007	3/1/2008	10/1/2007	No
	LINWOOD - MCWILLIE STREET 138KV CKT 1	6/1/2007	6/1/2007		
	Siloam Springs - South Fayetteville 161 kV	6/1/2015	6/1/2015		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1087757	Chamber Springs - Tontitown 345 kV	6/1/2008	6/1/2009	10/1/2008	No
	Flint Creek - East Centerton 345kV	6/1/2011	6/1/2011		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
 AEPM AG2-2006-092

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
AEPM	1090812	EES	CSWS	250	1/1/2007	1/1/2010	6/1/2010	6/1/2013	\$ -	\$ -	\$ 6,917,901	\$ -
									\$ -	\$ -	\$ 6,917,901	\$ 18,325,000

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090812	CLARENCE - MONTGOMERY 230KV CKT 1	6/1/2011	6/1/2011			\$ 1,138,062	\$ 2,200,000
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1	6/1/2007	6/1/2009	10/1/2007	Yes	\$ 3,239,771	\$ 9,000,000
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2011	6/1/2011			\$ 109,292	\$ 325,000
	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1	6/1/2010	6/1/2010			\$ 1,979,860	\$ 5,500,000
	SOUTHWEST SHREVEPORT - SOUTHWEST SHREVEPORT TAP 138KV CKT 1	6/1/2009	6/1/2009			\$ 450,916	\$ 1,300,000
<b>Total</b>						<b>\$ 6,917,901</b>	<b>\$ 18,325,000</b>

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
1090812	LINWOOD - MCWILLIE STREET 138KV CKT 1	6/1/2007	6/1/2007		

Customer Study Number  
 APM AG2-2006-031

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
APM	1087085	AECI	OKGE	3	12/1/2006	12/1/2007	6/1/2010	6/1/2011	\$ -	\$ -	\$ 179,452	\$ -
									\$ -	\$ -	\$ 179,452	\$ 264,605,672

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1087085	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	4/1/2007	6/1/2010		Yes	\$ 77	\$ 1,515,113
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1	6/1/2007	6/1/2009	10/1/2007	No	\$ 47,316	\$ 9,000,000
	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 4,860	\$ 14,795,676
	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1	6/1/2010	6/1/2010			\$ 28,916	\$ 5,500,000
	MIDWAY 69 KV STATCOM	6/1/2007	6/1/2008	12/1/2007	No	\$ 2,637	\$ 3,000,000
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		Yes	\$ 22,414	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 594	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 6,653	\$ 5,000,000
	Potter - Roosevelt 345KV	4/1/2007	6/1/2010		No	\$ 11,507	\$ 38,504,390
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 180	\$ 3,200,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 27,268	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 18,472	\$ 21,000,000
	Tuco - Tolk 345kV	4/1/2007	6/1/2010		No	\$ 6,485	\$ 24,875,000
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 2,073	\$ 10,318,679
<b>Total</b>						<b>\$ 179,452</b>	<b>\$ 264,605,672</b>

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
CALP AG2-2006-004

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
CALP	1040980	NPPD	ERCOTE	50	1/1/2007	1/1/2008	6/1/2010	6/1/2011	\$ -	\$ 630,000	\$ 1,600,085	\$ -
CALP	1040982	NPPD	ERCOTE	50	1/1/2007	1/1/2008	6/1/2010	6/1/2011	\$ -	\$ 630,000	\$ 1,600,085	\$ -
									\$ -	\$ 1,260,000	\$ 3,200,170	\$ 420,393,760

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1040980	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 101,180	\$ 14,795,676
	MIDWAY 69 KV STATCOM	6/1/2007	6/1/2008	12/1/2007	No	\$ 58,734	\$ 3,000,000
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		Yes	\$ 372,904	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 9,876	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 103,700	\$ 5,000,000
	Potter - Roosevelt 345KV	4/1/2007	6/1/2010		No	\$ 231,988	\$ 38,504,390
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 430,246	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 291,457	\$ 21,000,000
						Total	\$ 1,600,085 \$ 210,196,880
1040982	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 101,180	\$ 14,795,676
	MIDWAY 69 KV STATCOM	6/1/2007	6/1/2008	12/1/2007	No	\$ 58,734	\$ 3,000,000
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		Yes	\$ 372,904	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 9,876	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 103,700	\$ 5,000,000
	Potter - Roosevelt 345KV	4/1/2007	6/1/2010		No	\$ 231,988	\$ 38,504,390
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 430,246	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 291,457	\$ 21,000,000
						Total	\$ 1,600,085 \$ 210,196,880

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
1040980	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
1040982	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No

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
1040980	PHILLIPSBURG TO RHOADES 115KV	4/1/2007	6/1/2008	10/1/2007	No
1040982	PHILLIPSBURG TO RHOADES 115KV	4/1/2007	6/1/2008	10/1/2007	No

Customer Study Number  
EDE AG2-2006-018

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
EDE	1080018	EES	EDE	50	6/1/2010	6/1/2040	6/1/2010	6/1/2040	\$ -	\$ -	\$ 745,592	\$ -
									\$ -	\$ -	\$ 745,592	\$ 14,835,000

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1080018	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1	6/1/2007	6/1/2009	10/1/2007	No	\$ 443,831	\$ 9,000,000
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2011	6/1/2011			\$ 20,853	\$ 325,000
	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1	6/1/2010	6/1/2010			\$ 271,230	\$ 5,500,000
	SUB 271 - BAXTER SPRINGS WEST - SUB 404 - HOCKERVILLE 69KV CKT 1	12/1/2011	12/1/2011			\$ 9,678	\$ 10,000
						Total	\$ 745,592 \$ 14,835,000

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
1080018	BULL SHOALS - BULL SHOALS 161KV CKT 1	6/1/2009	6/1/2009		
	JAMESVILLE - SUB 415 - BLACKHAWK JCT 69KV CKT 1	6/1/2012	6/1/2012		
	SUB 124 - AURORA HT - SUB 152 - MONETT HT 69KV CKT 1	6/1/2010	6/1/2009		
	SUB 145 - JOPLIN WEST 7TH - SUB 64 - JOPLIN 10TH ST 69KV CKT 1	6/1/2013	6/1/2013		
	SUB 167 - RIVERTON - SUB 406 - RIVERTON SOUTH 69KV CKT 1	6/1/2016	6/1/2016		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
 ETEC AG2-2006-003

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
ETEC	1040650	CSWS	EES	65	1/1/2010	1/1/2030	1/1/2010	1/1/2030	\$ -	\$ 7,128,000	\$ 841,743	\$ -
									\$ -	\$ 7,128,000	\$ 841,743	\$ 18,215,000

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1040650	36TH & LEWIS - 52ND & DELAWARE TAP 138KV CKT 1	6/1/2011	6/1/2011			\$ 3,891	\$ 15,000
	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	6/1/2009	6/1/2009			\$ 277,925	\$ 6,000,000
	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2010	6/1/2010			\$ 101,462	\$ 2,500,000
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2010	6/1/2010			\$ 20,292	\$ 500,000
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	6/1/2014	6/1/2014			\$ 438,173	\$ 9,200,000
Total						\$ 841,743	\$ 18,215,000

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
1040650	COCODRIE 230/138KV TRANSFORMER CKT 1	12/1/2011	12/1/2011		
	MUSKOGEE 345/161KV TRANSFORMER CKT 1	6/1/2014	6/1/2014		

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
1040650	Chamber Springs - Tontitown 345 kv	6/1/2007	6/1/2009	10/1/2008	No
	EUREKA SPRINGS - OSAGE 161KV CKT 1	6/1/2015	6/1/2015		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
GSEC AG2-2006-054

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
GSEC	1090270	CSWS	CSWS	10	10/1/2006	10/1/2036	6/1/2011	6/1/2041	\$ -	\$ -	\$ 6,414,514	\$ -
									\$ -	\$ -	\$ 6,414,514	\$ 291,641,282

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	
1090270	36TH & LEWIS - 52ND & DELAWARE TAP 138KV CKT 1	6/1/2011	6/1/2011			\$ 1,204	\$ 15,000	
	ALTUS JCT TAP - RUSSELL 138KV CKT 1	2/1/2011	2/1/2011			\$ 523,237	\$ 3,125,000	
	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	6/1/2009	6/1/2009			\$ 53,391	\$ 6,000,000	
	CANADIAN - CEDAR LANE 138KV CKT 1	6/1/2014	6/1/2014			\$ 5,420	\$ 50,000	
	CIMARRON RIVER PLANT - NORTH CIMARRON 115KV CKT 1	6/1/2011	6/1/2011			\$ 237	\$ 150,000	
	CLINTON CITY - THOMAS TAP 69KV CKT 1	6/1/2013	6/1/2013			\$ 2,058,397	\$ 7,000,000	
	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2010	6/1/2010			\$ 21,012	\$ 2,500,000	
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2010	6/1/2010			\$ 4,202	\$ 500,000	
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	6/1/2014	6/1/2014			\$ 81,058	\$ 9,200,000	
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	4/1/2007	6/1/2010		Yes	\$ 2,345	\$ 1,515,113	
	ELDORADO - ELDORADO JCT 69KV CKT 1	6/1/2014	6/1/2014			\$ 727,069	\$ 2,600,000	
	ELDORADO - LAKE PAULINE 69KV CKT 1	6/1/2013	6/1/2013			\$ 27,964	\$ 100,000	
	ELDORADO JCT - GYPSUM 69KV CKT 1	6/1/2014	6/1/2014			\$ 503,356	\$ 1,800,000	
	FRANKLIN SW - MIDWEST TAP 138KV CKT 1	6/1/2014	6/1/2014			\$ 2,951	\$ 100,000	
	GYPSUM - RUSSELL 69KV CKT 1	6/1/2013	6/1/2013			\$ 195,749	\$ 700,000	
	HAMON BUTLER - MOREWOOD 69KV CKT 1	6/1/2007	6/1/2007			\$ 181,044	\$ 3,400,000	
	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 71,428	\$ 14,795,676	
	HOBART JUNCTION - TAMARAC TAP 138KV CKT 1	6/1/2013	6/1/2013			\$ 27,483	\$ 100,000	
	LAKE PAULINE - RUSSELL 138KV CKT 1	6/1/2015	6/1/2015			\$ 8,060	\$ 50,000	
	MIDWAY 69 KV STATCOM	6/1/2007	6/1/2008	12/1/2007	No	\$ 933,584	\$ 3,000,000	
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		Yes	\$ 423,111	\$ 94,396,814	
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 11,206	\$ 2,500,000	
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 22,362	\$ 5,000,000	
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 4,540	\$ 3,200,000	
	RUSSELL SWITCH CAPACITOR	12/1/2011	12/1/2011			\$ 12,085	\$ 75,000	
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 27,391	\$ 31,000,000	
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 18,555	\$ 21,000,000	
	THOMAS TAP - WEATHERFORD 69KV CKT 1	6/1/2011	6/1/2011			\$ 140,584	\$ 450,000	
	Tuco - Tolk 345KV	4/1/2007	6/1/2010		No	\$ 122,927	\$ 24,875,000	
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 47,167	\$ 10,318,679	
	WEATHERFORD - WEATHERFORD SOUTHEAST 69KV CKT 1	6/1/2016	6/1/2016			\$ 36,757	\$ 125,000	
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 118,638	\$ 42,000,000	
						Total	\$ 6,414,514	\$ 291,641,282

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
1090270	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELK CITY - ELK CITY 69KV CKT 1 AEPW	6/1/2007	12/1/2007		Yes
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	SNYDER AEPW- SNYDER WFEC INTERCONNECTION	6/1/2011	6/1/2011		
	SNYDER CAPACITOR	6/1/2016	6/1/2016		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	Stateline Project	6/1/2014	6/1/2014		
	WEATHERFORD SOUTHEAST (WTH_SE) 138/69/13.8KV TRANSFORMER 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
1090270	EAST CENTRAL HENRYETTA - OKMULGEE 138KV CKT 1	12/1/2006	12/1/2006		
	EAST CENTRAL HENRYETTA - WEELETKA 138KV CKT 1	6/1/2007	6/1/2007		

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
1090270	Morewood Conversion	12/1/2011	6/1/2008		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
GSEC AG2-2006-055

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
GSEC	1090271	CSWS	CSWS	10	10/1/2006	10/1/2036	6/1/2011	6/1/2041	\$ -	\$ -	\$ 6,373,255	\$ -
									\$ -	\$ -	\$ 6,373,255	\$ 291,641,282

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	
1090271	36TH & LEWIS - 52ND & DELAWARE TAP 138KV CKT 1	6/1/2011	6/1/2011			\$ 1,204	\$ 15,000	
	ALTUS JCT TAP - RUSSELL 138KV CKT 1	2/1/2011	2/1/2011			\$ 523,237	\$ 3,125,000	
	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	6/1/2009	6/1/2009			\$ 53,391	\$ 6,000,000	
	CANADIAN - CEDAR LANE 138KV CKT 1	6/1/2014	6/1/2014			\$ 5,420	\$ 50,000	
	CIMARRON RIVER PLANT - NORTH CIMARRON 115KV CKT 1	6/1/2011	6/1/2011			\$ 237	\$ 150,000	
	CLINTON CITY - THOMAS TAP 69KV CKT 1	6/1/2013	6/1/2013			\$ 2,058,397	\$ 7,000,000	
	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2010	6/1/2010			\$ 21,012	\$ 2,500,000	
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2010	6/1/2010			\$ 4,202	\$ 500,000	
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	6/1/2014	6/1/2014			\$ 81,058	\$ 9,200,000	
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	4/1/2007	6/1/2010		Yes	\$ 2,345	\$ 1,515,113	
	ELDORADO - ELDORADO JCT 69KV CKT 1	6/1/2014	6/1/2014			\$ 727,069	\$ 2,600,000	
	ELDORADO - LAKE PAULINE 69KV CKT 1	6/1/2013	6/1/2013			\$ 27,964	\$ 100,000	
	ELDORADO JCT - GYPSUM 69KV CKT 1	6/1/2014	6/1/2014			\$ 503,356	\$ 1,800,000	
	FRANKLIN SW - MIDWEST TAP 138KV CKT 1	6/1/2014	6/1/2014			\$ 2,951	\$ 100,000	
	GYPSUM - RUSSELL 69KV CKT 1	6/1/2013	6/1/2013			\$ 195,749	\$ 700,000	
	HAMON BUTLER - MOREWOOD 69KV CKT 1	6/1/2007	6/1/2007			\$ 173,468	\$ 3,400,000	
	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 71,428	\$ 14,795,676	
	HOBART JUNCTION - TAMARAC TAP 138KV CKT 1	6/1/2013	6/1/2013			\$ 27,483	\$ 100,000	
	LAKE PAULINE - RUSSELL 138KV CKT 1	6/1/2015	6/1/2015			\$ 8,060	\$ 50,000	
	MIDWAY 69 KV STATCOM	6/1/2007	6/1/2008	12/1/2007	No	\$ 899,901	\$ 3,000,000	
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		Yes	\$ 423,111	\$ 94,396,814	
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 11,206	\$ 2,500,000	
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 22,362	\$ 5,000,000	
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 4,540	\$ 3,200,000	
	RUSSELL SWITCH CAPACITOR	12/1/2011	12/1/2011			\$ 12,085	\$ 75,000	
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 27,391	\$ 31,000,000	
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 18,555	\$ 21,000,000	
	THOMAS TAP - WEATHERFORD 69KV CKT 1	6/1/2011	6/1/2011			\$ 140,584	\$ 450,000	
	Tuco - Tolk 345KV	4/1/2007	6/1/2010		No	\$ 122,927	\$ 24,875,000	
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 47,167	\$ 10,318,679	
	WEATHERFORD - WEATHERFORD SOUTHEAST 69KV CKT 1	6/1/2016	6/1/2016			\$ 36,757	\$ 125,000	
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 118,638	\$ 42,000,000	
						Total	\$ 6,373,255	\$ 291,641,282

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
1090271	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELK CITY - ELK CITY 69KV CKT 1 AEPW	6/1/2007	12/1/2007		Yes
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	SNYDER AEPW- SNYDER WFEC INTERCONNECTION	6/1/2011	6/1/2011		
	SNYDER CAPACITOR	6/1/2016	6/1/2016		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	Stateline Project	6/1/2014	6/1/2014		
	WEATHERFORD SOUTHEAST (WTH_SE) 138/69/13.8KV TRANSFORMER 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
1090271	EAST CENTRAL HENRYETTA - OKMULGEE 138KV CKT 1	12/1/2006	12/1/2006		
	EAST CENTRAL HENRYETTA - WEELETKA 138KV CKT 1	6/1/2007	6/1/2007		

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
1090271	Morewood Conversion	12/1/2011	6/1/2008		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
GSEC AG2-2006-056

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
GSEC	1090288	SECI	SPS	400	6/1/2011	6/1/2041	6/1/2011	6/1/2041	\$ 72,000,000	\$ -	\$99,834,050	\$ -
									\$ 72,000,000	\$ -	\$99,834,050	\$ 261,941,454

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090288	ALTUS JCT TAP - RUSSELL 138KV CKT 1	2/1/2011	2/1/2011			\$ 752,639	\$ 3,125,000
	CIMARRON RIVER PLANT - NORTH CIMARRON 115KV CKT 1	6/1/2011	6/1/2011			\$ 41,924	\$ 150,000
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	4/1/2007	6/1/2010		No	\$ 777,830	\$ 1,515,113
	GREENSBURG - JUDSON LARGE 115KV CKT 1	10/1/2006	6/1/2007		No	\$ 33,945	\$ 153,114
	Hart Interchange 115/69 kv	6/1/2016	6/1/2016			\$ 1,417,554	\$ 3,500,000
	Hitchland 345 and 115 kv Interchange	4/1/2007	4/1/2010		No	\$ 6,514,595	\$ 14,795,676
	LAKE PAULINE - RUSSELL 138KV CKT 1	6/1/2015	6/1/2015			\$ 11,722	\$ 50,000
	LEA COUNTY INTERCHANGE 230KV CAPACITORS	4/1/2008	4/1/2008			\$ 482,755	\$ 1,381,023
	MEDICINE LODGE - SUN CITY 115KV CKT 1	6/1/2007	6/1/2007			\$ 25,539	\$ 100,000
	Mooreland - TUCO 345 kv SPS	4/1/2007	6/1/2010		No	\$ 43,239,816	\$ 94,396,814
	Mooreland - TUCO 345 kv WFEC	4/1/2007	6/1/2010		No	\$ 1,145,161	\$ 2,500,000
	Mooreland 345/138 kv Transformer	4/1/2007	6/1/2010		No	\$ 427,894	\$ 5,000,000
	NORTH CIMARRON 24MVAR CAPACITOR	6/1/2011	6/1/2011			\$ 417,630	\$ 1,400,000
	Potter - Roosevelt 345KV	4/1/2007	6/1/2010		No	\$ 13,422,031	\$ 38,504,390
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 1,672,879	\$ 3,200,000
	RUSSELL SWITCH CAPACITOR	12/1/2011	12/1/2011			\$ 17,495	\$ 75,000
	Spearville - Mooreland 345 kv SUNC	4/1/2007	6/1/2010		No	\$ 11,018,096	\$ 31,000,000
	Spearville - Mooreland 345 kv WFEC	4/1/2007	6/1/2010		No	\$ 7,463,872	\$ 21,000,000
	Tex-Hitchland-Sherman Tap 115 kv ckt	4/1/2007	4/1/2010		No	\$ 14,691	\$ 2,401,645
	Tuco - Tolk 345KV	4/1/2007	6/1/2010		No	\$ 4,666,406	\$ 24,875,000
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 5,374,010	\$ 10,318,679
	YOAKUM COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2007	6/1/2007			\$ 895,566	\$ 2,500,000
	<b>Total</b>					\$ 99,834,050	\$ 261,941,454

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
1090288	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	COX INTERCHANGE - LH-COX3 115KV CKT 1	6/1/2015	6/1/2015		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	HALE CO INTERCHANGE - LH-COX3 115KV CKT 1	6/1/2015	6/1/2015		
	Hart Interchange 230/115 kv	6/1/2011	6/1/2011		
	KRESS INTERCHANGE 115/69KV TRANSFORMERS	4/1/2007	6/1/2006		
	Pringle - Etter 115 kv	12/1/2011	12/1/2011		
	Seven Rivers to Pecos to Potash Junction 230kv	6/1/2007	6/1/2009		No
	SNYDER AEPW- SNYDER WFEC INTERCONNECTION	6/1/2011	6/1/2011		
	TUCO INTERCHANGE 115/69KV TRANSFORMER	6/1/2007	6/1/2007		

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
1090288	Morewood Conversion	12/1/2011	6/1/2008		
	TUCO INTERCHANGE 230KV #1	6/1/2007	6/1/2007		
	TUCO INTERCHANGE 230KV #2	6/1/2008	6/1/2008		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
GSEC AG2-2006-086

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
GSEC	1090767	CSWS	CSWS	8	10/1/2006	10/1/2036	6/1/2011	6/1/2041	\$ -	\$ -	\$ 4,699,670	\$ -
									\$ -	\$ -	\$ 4,699,670	\$ 291,641,282

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	
1090767	36TH & LEWIS - 52ND & DELAWARE TAP 138KV CKT 1	6/1/2011	6/1/2011			\$ 817	\$ 15,000	
	ALTUS JCT TAP - RUSSELL 138KV CKT 1	2/1/2011	2/1/2011			\$ 388,488	\$ 3,125,000	
	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	6/1/2009	6/1/2009			\$ 36,229	\$ 6,000,000	
	CANADIAN - CEDAR LANE 138KV CKT 1	6/1/2014	6/1/2014			\$ 4,502	\$ 50,000	
	CIMARRON RIVER PLANT - NORTH CIMARRON 115KV CKT 1	6/1/2011	6/1/2011			\$ 160	\$ 150,000	
	CLINTON CITY - THOMAS TAP 69KV CKT 1	6/1/2013	6/1/2013			\$ 1,647,201	\$ 7,000,000	
	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2010	6/1/2010			\$ 14,250	\$ 2,500,000	
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2010	6/1/2010			\$ 2,850	\$ 500,000	
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	6/1/2014	6/1/2014			\$ 64,130	\$ 9,200,000	
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	4/1/2007	6/1/2010		Yes	\$ 1,584	\$ 1,515,113	
	ELDORADO - ELDORADO JCT 69KV CKT 1	6/1/2014	6/1/2014			\$ 624,126	\$ 2,600,000	
	ELDORADO - LAKE PAULINE 69KV CKT 1	6/1/2013	6/1/2013			\$ 24,005	\$ 100,000	
	ELDORADO JCT - GYPSUM 69KV CKT 1	6/1/2014	6/1/2014			\$ 432,087	\$ 1,800,000	
	FRANKLIN SW - MIDWEST TAP 138KV CKT 1	6/1/2014	6/1/2014			\$ 2,449	\$ 100,000	
	GYPSUM - RUSSELL 69KV CKT 1	6/1/2013	6/1/2013			\$ 168,034	\$ 700,000	
	HAMON BUTLER - MOREWOOD 69KV CKT 1	6/1/2007	6/1/2007			\$ 135,326	\$ 3,400,000	
	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 48,319	\$ 14,795,676	
	HOBART JUNCTION - TAMARAC TAP 138KV CKT 1	6/1/2013	6/1/2013			\$ 24,164	\$ 100,000	
	LAKE PAULINE - RUSSELL 138KV CKT 1	6/1/2015	6/1/2015			\$ 6,917	\$ 50,000	
	MIDWAY 69 KV STATCOM	6/1/2007	6/1/2008	12/1/2007	No	\$ 397,411	\$ 3,000,000	
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		Yes	\$ 286,463	\$ 94,396,814	
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 7,587	\$ 2,500,000	
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 13,918	\$ 5,000,000	
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 3,056	\$ 3,200,000	
	RUSSELL SWITCH CAPACITOR	12/1/2011	12/1/2011			\$ 10,374	\$ 75,000	
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 19,828	\$ 31,000,000	
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 13,432	\$ 21,000,000	
	THOMAS TAP - WEATHERFORD 69KV CKT 1	6/1/2011	6/1/2011			\$ 98,458	\$ 450,000	
	Tuco - Tolk 345KV	4/1/2007	6/1/2010		No	\$ 81,892	\$ 24,875,000	
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 31,577	\$ 10,318,679	
	WEATHERFORD - WEATHERFORD SOUTHEAST 69KV CKT 1	6/1/2016	6/1/2016			\$ 29,414	\$ 125,000	
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 80,622	\$ 42,000,000	
						Total	\$ 4,699,670	\$ 291,641,282

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
1090767	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELK CITY - ELK CITY 69KV CKT 1 AEPW	6/1/2007	12/1/2007		Yes
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	SNYDER AEPW- SNYDER WFEC INTERCONNECTION	6/1/2011	6/1/2011		
	SNYDER CAPACITOR	6/1/2016	6/1/2016		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	Stateline Project	6/1/2014	6/1/2014		
	WEATHERFORD SOUTHEAST (WTH_SE) 138/69/13.8KV TRANSFORMER 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
1090767	EAST CENTRAL HENRYETTA - OKMULGEE 138KV CKT 1	12/1/2006	12/1/2006		
	EAST CENTRAL HENRYETTA - WEELETKA 138KV CKT 1	6/1/2007	6/1/2007		

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
1090767	Morewood Conversion	12/1/2011	6/1/2008		



Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
GSEC AG2-2006-087

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
GSEC	1090789	CSWS	CSWS	6	10/1/2006	10/1/2036	6/1/2011	6/1/2041	\$ -	\$ -	\$ 3,411,881	\$ -
									\$ -	\$ -	\$ 3,411,881	\$ 291,641,282

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	
1090789	36TH & LEWIS - 52ND & DELAWARE TAP 138KV CKT 1	6/1/2011	6/1/2011			\$ 585	\$ 15,000	
	ALTUS JCT TAP - RUSSELL 138KV CKT 1	2/1/2011	2/1/2011			\$ 308,512	\$ 3,125,000	
	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	6/1/2009	6/1/2009			\$ 25,463	\$ 6,000,000	
	CANADIAN - CEDAR LANE 138KV CKT 1	6/1/2014	6/1/2014			\$ 3,584	\$ 50,000	
	CIMARRON RIVER PLANT - NORTH CIMARRON 115KV CKT 1	6/1/2011	6/1/2011			\$ 109	\$ 150,000	
	CLINTON CITY - THOMAS TAP 69KV CKT 1	6/1/2013	6/1/2013			\$ 1,236,006	\$ 7,000,000	
	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2010	6/1/2010			\$ 10,035	\$ 2,500,000	
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2010	6/1/2010			\$ 2,007	\$ 500,000	
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	6/1/2014	6/1/2014			\$ 47,247	\$ 9,200,000	
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	4/1/2007	6/1/2010		Yes	\$ 1,063	\$ 1,515,113	
	ELDORADO - ELDORADO JCT 69KV CKT 1	6/1/2014	6/1/2014			\$ 521,736	\$ 2,600,000	
	ELDORADO - LAKE PAULINE 69KV CKT 1	6/1/2013	6/1/2013			\$ 20,067	\$ 100,000	
	ELDORADO JCT - GYPSUM 69KV CKT 1	6/1/2014	6/1/2014			\$ 361,202	\$ 1,800,000	
	FRANKLIN SW - MIDWEST TAP 138KV CKT 1	6/1/2014	6/1/2014			\$ 1,948	\$ 100,000	
	GYPSUM - RUSSELL 69KV CKT 1	6/1/2013	6/1/2013			\$ 140,467	\$ 700,000	
	HAMON BUTLER - MOREWOOD 69KV CKT 1	6/1/2007	6/1/2007			\$ 87,387	\$ 3,400,000	
	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 32,534	\$ 14,795,676	
	HOBART JUNCTION - TAMARAC TAP 138KV CKT 1	6/1/2013	6/1/2013			\$ 20,869	\$ 100,000	
	LAKE PAULINE - RUSSELL 138KV CKT 1	6/1/2015	6/1/2015			\$ 5,781	\$ 50,000	
	MIDWAY 69 KV STATCOM	6/1/2007	6/1/2008	12/1/2007	No	\$ 119,635	\$ 3,000,000	
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		Yes	\$ 193,287	\$ 94,396,814	
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 5,119	\$ 2,500,000	
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 8,856	\$ 5,000,000	
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 2,045	\$ 3,200,000	
	RUSSELL SWITCH CAPACITOR	12/1/2011	12/1/2011			\$ 8,672	\$ 75,000	
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 15,160	\$ 31,000,000	
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 10,270	\$ 21,000,000	
	THOMAS TAP - WEATHERFORD 69KV CKT 1	6/1/2011	6/1/2011			\$ 70,374	\$ 450,000	
	Tuco - Tolk 345KV	4/1/2007	6/1/2010		No	\$ 54,146	\$ 24,875,000	
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 20,915	\$ 10,318,679	
	WEATHERFORD - WEATHERFORD SOUTHEAST 69KV CKT 1	6/1/2016	6/1/2016			\$ 22,072	\$ 125,000	
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 54,728	\$ 42,000,000	
						Total	\$ 3,411,881	\$ 291,641,282

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
1090789	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELK CITY - ELK CITY 69KV CKT 1 AEPW	6/1/2007	12/1/2007		Yes
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	SNYDER AEPW- SNYDER WFEC INTERCONNECTION	6/1/2011	6/1/2011		
	SNYDER CAPACITOR	6/1/2016	6/1/2016		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	Stalene Project	6/1/2014	6/1/2014		
	WEATHERFORD SOUTHEAST (WTH_SE) 138/69/13.8KV TRANSFORMER 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
1090789	EAST CENTRAL HENRYETTA - OKMULGEE 138KV CKT 1	12/1/2006	12/1/2006		
	EAST CENTRAL HENRYETTA - WEELETKA 138KV CKT 1	6/1/2007	6/1/2007		

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
1090789	Morewood Conversion	12/1/2011	6/1/2008		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
GSEC AG2-2006-126

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
GSEC	1090298	SPS	SPS	15	10/1/2007	10/1/2037	6/1/2010	6/1/2040	\$ -	\$ -	\$ 2,630,405	\$ -
									\$ -	\$ -	\$ 2,630,405	\$ 236,009,996

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	
1090298	BAILEY COUNTY SUNNYSIDE Interconnection #1	10/1/2007	6/1/2006			\$ -	\$ -	
	BAILEY COUNTY SUNNYSIDE Interconnection #2	6/1/2008	6/1/2008			\$ 200,000	\$ 200,000	
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	4/1/2007	6/1/2010		Yes	\$ 15,388	\$ 1,515,113	
	Hart Interchange 115/69 kv	6/1/2016	6/1/2016			\$ 1,507,737	\$ 3,500,000	
	Mooreland - TUCO 345 kv SPS	4/1/2007	6/1/2010		No	\$ 192,232	\$ 94,396,814	
	Mooreland - TUCO 345 kv WFEC	4/1/2007	6/1/2010		No	\$ 5,091	\$ 2,500,000	
	Mooreland 345/138 kv Transformer	4/1/2007	6/1/2010		No	\$ 4,387	\$ 5,000,000	
	Potter - Roosevelt 345KV	4/1/2007	6/1/2010		No	\$ 203,430	\$ 38,504,390	
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 32,631	\$ 3,200,000	
	SOUTH PLAINS WOLFFORTH Interconnection	3/1/2011	3/1/2011			\$ -	\$ -	
	Spearville - Mooreland 345 kv SUNC	4/1/2007	6/1/2010		No	\$ 27,903	\$ 31,000,000	
	Spearville - Mooreland 345 kv WFEC	4/1/2007	6/1/2010		No	\$ 18,902	\$ 21,000,000	
	Tuco - Tolk 345kv	4/1/2007	6/1/2010		No	\$ 321,645	\$ 24,875,000	
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 101,059	\$ 10,318,679	
						Total	\$ 2,630,405	\$ 236,009,996

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
1090298	BC-EARTH INTERCHANGE 115KV	6/1/2016	6/1/2016		
	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	Hart Interchange 230/115 kv	6/1/2011	6/1/2011		
	Seven Rivers to Pecos to Potash Junction 230kv	6/1/2007	6/1/2009		Yes

Customer Study Number  
GSEC AG2-2006-127

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
GSEC	1090301	SPS	SPS	20	3/1/2007	3/1/2037	6/1/2010	6/1/2040	\$ -	\$ -	\$ 13,638,931	\$ -
									\$ -	\$ -	\$ 13,638,931	\$ 248,958,181

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	
1090301	Bailey County - Curry County 115 kv	6/1/2011	6/1/2011			\$ 10,648,185	\$ 10,648,185	
	BAILEY COUNTY PROGRESS Interconnection #1	3/1/2007	3/1/2007			\$ -	\$ -	
	BAILEY COUNTY PROGRESS Interconnection #2	6/1/2011	6/1/2011			\$ -	\$ -	
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	4/1/2007	6/1/2010		Yes	\$ 354,627	\$ 1,515,113	
	Hart Interchange 115/69 kv	6/1/2016	6/1/2016			\$ 44,299	\$ 3,500,000	
	Mooreland - TUCO 345 kv SPS	4/1/2007	6/1/2010		No	\$ 303,148	\$ 94,396,814	
	Mooreland - TUCO 345 kv WFEC	4/1/2007	6/1/2010		No	\$ 8,029	\$ 2,500,000	
	Mooreland 345/138 kv Transformer	4/1/2007	6/1/2010		No	\$ 8,032	\$ 5,000,000	
	MUSTANG STATION 230/115KV TRANSFORMER CKT 1	4/1/2007	4/1/2008		No	\$ 6,010	\$ 2,500,000	
	Potter - Roosevelt 345KV	4/1/2007	6/1/2010		No	\$ 890,030	\$ 38,504,390	
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 745,088	\$ 3,200,000	
	SOUTH PLAINS WOLFFORTH Interconnection	3/1/2011	3/1/2011			\$ -	\$ -	
	Spearville - Mooreland 345 kv SUNC	4/1/2007	6/1/2010		No	\$ 49,235	\$ 31,000,000	
	Spearville - Mooreland 345 kv WFEC	4/1/2007	6/1/2010		No	\$ 33,353	\$ 21,000,000	
	Tuco - Tolk 345kv	4/1/2007	6/1/2010		No	\$ 436,755	\$ 24,875,000	
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 112,040	\$ 10,318,679	
						Total	\$ 13,638,931	\$ 248,958,181

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
1090301	Hart Interchange 230/115 kv	6/1/2011	6/1/2011		
	Seven Rivers to Pecos to Potash Junction 230kv	6/1/2007	6/1/2009		Yes

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
GSEC AG2-2006-128

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
GSEC	1090310	SPS	SPS	20	7/1/2007	7/1/2037	6/1/2011	6/1/2041	\$ -	\$ -	\$ 7,025,248	\$ -
									\$ -	\$ -	\$ 7,025,248	\$ 263,052,927

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	
1090310	CIMARRON RIVER PLANT - NORTH CIMARRON 115KV CKT 1	6/1/2011	6/1/2011			\$ 9,632	\$ 150,000	
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	4/1/2007	6/1/2010		Yes	\$ 4,998	\$ 1,515,113	
	Hart Interchange 115/69 kV	6/1/2016	6/1/2016			\$ 1,724	\$ 3,500,000	
	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 726,544	\$ 14,795,676	
	MIDWAY 69 KV STATCOM	6/1/2007	6/1/2008	12/1/2007	No	\$ 31,751	\$ 3,000,000	
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		Yes	\$ 1,683,296	\$ 94,396,814	
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 44,580	\$ 2,500,000	
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 16,699	\$ 5,000,000	
	NORTH CIMARRON 24MVAR CAPACITOR	6/1/2011	6/1/2011			\$ 91,321	\$ 1,400,000	
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 9,911	\$ 3,200,000	
	SOUTH PLAINS WOLFFORTH Interconnection	3/1/2011	3/1/2011			\$ -	\$ -	
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 390,424	\$ 31,000,000	
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 264,481	\$ 21,000,000	
	Tex-Hitchland-Sherman Tap 115 kV ckt	4/1/2007	4/1/2010		Yes	\$ 678,413	\$ 2,401,645	
	TRI COUNTY PRAIRIE Interconnection #1	7/1/2007	7/1/2007			\$ -	\$ -	
	TRI COUNTY PRAIRIE Interconnection #2	7/1/2007	6/1/2008			\$ 2,000,000	\$ 2,000,000	
	Tuco - Tolk 345kV	4/1/2007	6/1/2010		No	\$ 693,938	\$ 24,875,000	
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 184,543	\$ 10,318,679	
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 192,993	\$ 42,000,000	
						Total	\$ 7,025,248	\$ 263,052,927

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
1090310	BC-EARTH INTERCHANGE 115KV	6/1/2016	6/1/2016		
	BOOKER 69KV	6/1/2016	6/1/2016		
	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	Hart Interchange 230/115 kV	6/1/2011	6/1/2011		
	Pringle - Etter 115 kV	12/1/2011	12/1/2011		
	Seven Rivers to Pecos to Potash Junction 230kV	6/1/2007	6/1/2009		Yes
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No

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
1090310	HOLCOMB - PLYMELL - PIONEER TAP 115KV CKT 1	6/1/2007	6/1/2008	10/1/2007	Yes

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
GSEC AG2-2006-129

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
GSEC	1090315	SPS	SPS	20	9/1/2007	9/1/2037	6/1/2010	6/1/2040	\$ -	\$ -	\$ 3,327,210	\$ -
									\$ -	\$ -	\$ 3,327,210	\$ 213,151,282

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	
1090315	CIMARRON RIVER PLANT - NORTH CIMARRON 115KV CKT 1	6/1/2011	6/1/2011			\$ 650	\$ 150,000	
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	4/1/2007	6/1/2010		Yes	\$ 7,858	\$ 1,515,113	
	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 902,752	\$ 14,795,676	
	MIDWAY 69 KV STATCOM	6/1/2007	6/1/2008	12/1/2007	No	\$ 10,855	\$ 3,000,000	
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		Yes	\$ 1,173,794	\$ 94,396,814	
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 31,087	\$ 2,500,000	
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 6,537	\$ 5,000,000	
	NORTH CIMARRON 24MVAR CAPACITOR	6/1/2011	6/1/2011			\$ 5,862	\$ 1,400,000	
	RITA BLANCA RITA (Sherman) Interconnection	9/1/2007	9/1/2007			\$ -	\$ -	
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 15,551	\$ 3,200,000	
	SOUTH PLAINS WOLFFORTH Interconnection	3/1/2011	3/1/2011			\$ -	\$ -	
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 238,265	\$ 31,000,000	
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 161,405	\$ 21,000,000	
	Tuco - Tolk 345kV	4/1/2007	6/1/2010		No	\$ 616,673	\$ 24,875,000	
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 155,921	\$ 10,318,679	
						Total	\$ 3,327,210	\$ 213,151,282

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
1090315	BC-EARTH INTERCHANGE 115KV	6/1/2016	6/1/2016		
	BOOKER 69KV	6/1/2016	6/1/2016		
	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	Hart Interchange 230/115 kV	6/1/2011	6/1/2011		
	Pringle - Etter 115 kV	12/1/2011	12/1/2011		
	Seven Rivers to Pecos to Potash Junction 230kV	6/1/2007	6/1/2009		Yes

Customer Study Number  
GSEC AG2-2006-130

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
GSEC	1090320	SPS	SPS	25	3/1/2011	3/1/2041	3/1/2011	3/1/2041	\$ -	\$ -	\$ 2,282,577	\$ -
									\$ -	\$ -	\$ 2,282,577	\$ 238,309,996

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	
1090320	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	4/1/2007	6/1/2010		No	\$ 7,409	\$ 1,515,113	
	Hart Interchange 115/69 kV	6/1/2016	6/1/2016			\$ 31,164	\$ 3,500,000	
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		No	\$ 547,446	\$ 94,396,814	
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 14,499	\$ 2,500,000	
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 11,289	\$ 5,000,000	
	Potter - Roosevelt 345KV	4/1/2007	6/1/2010		No	\$ 461,290	\$ 38,504,390	
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 18,563	\$ 3,200,000	
	SOUTH PLAINS WOLFFORTH Interconnection	3/1/2011	3/1/2011			\$ -	\$ -	
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 83,510	\$ 31,000,000	
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 56,571	\$ 21,000,000	
	Tuco - Tolk 345kV	4/1/2007	6/1/2010		No	\$ 736,985	\$ 24,875,000	
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 241,027	\$ 10,318,679	
	YOAKUM COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2007	6/1/2007			\$ 72,824	\$ 2,500,000	
						Total	\$ 2,282,577	\$ 238,309,996

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
1090320	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	Hart Interchange 230/115 kV	6/1/2011	6/1/2011		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
 GSEC AG2-2006-131

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
GSEC	1090322	SPS	SPS	25	3/1/2009	3/1/2039	6/1/2010	6/1/2040	\$ -	\$ -	\$ 2,513,069	\$ -
									\$ -	\$ -	\$ 2,513,069	\$ 238,309,996

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090322	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	4/1/2007	6/1/2010		Yes	\$ 7,973	\$ 1,515,113
	Hart Interchange 115/69 kv	6/1/2016	6/1/2016			\$ 31,888	\$ 3,500,000
	Mooreland - TUCO 345 kv SPS	4/1/2007	6/1/2010		No	\$ 602,477	\$ 94,396,814
	Mooreland - TUCO 345 kv WFEC	4/1/2007	6/1/2010		No	\$ 15,956	\$ 2,500,000
	Mooreland 345/138 kv Transformer	4/1/2007	6/1/2010		No	\$ 12,259	\$ 5,000,000
	Potter - Roosevelt 345KV	4/1/2007	6/1/2010		No	\$ 460,009	\$ 38,504,390
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 19,484	\$ 3,200,000
	SOUTH PLAINS ALCOVE Interconnection	3/1/2009	3/1/2009			\$ -	\$ -
	SOUTH PLAINS WOLFFORTH Interconnection	3/1/2011	3/1/2011			\$ -	\$ -
	Spearville - Mooreland 345 kv SUNC	4/1/2007	6/1/2010		No	\$ 92,454	\$ 31,000,000
	Spearville - Mooreland 345 kv WFEC	4/1/2007	6/1/2010		No	\$ 62,630	\$ 21,000,000
	Tuco - Tolk 345kv	4/1/2007	6/1/2010		No	\$ 858,118	\$ 24,875,000
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 298,568	\$ 10,318,679
	YOAKUM COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2007	6/1/2007			\$ 51,253	\$ 2,500,000
Total						\$ 2,513,069	\$ 238,309,996

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
1090322	BC-EARTH INTERCHANGE 115KV	6/1/2016	6/1/2016		
	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	Hart Interchange 230/115 kv	6/1/2011	6/1/2011		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
GSEC AG2-2006-132

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
GSEC	1090454	SPS	SPS	5	10/1/2006	10/1/2036	6/1/2010	6/1/2040	\$ -	\$ -	\$ 635,311	\$ -
									\$ -	\$ -	\$ 635,311	\$ 214,176,282

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090454	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	4/1/2007	6/1/2010		Yes	\$ 3,743	\$ 1,515,113
	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 76,390	\$ 14,795,676
	MIDWAY 69 KV STATCOM	6/1/2007	6/1/2008	12/1/2007	No	\$ 72	\$ 3,000,000
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		Yes	\$ 257,917	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 6,831	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 4,430	\$ 5,000,000
	MUSTANG STATION 230/115KV TRANSFORMER CKT 1	4/1/2007	4/1/2008		No	\$ 2,258	\$ 2,500,000
	RITA BLANCA Masterson (EXELL) Interconnection	10/1/2006	10/1/2006			\$ -	\$ -
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 7,618	\$ 3,200,000
	RUSSELL SWITCH CAPACITOR	12/1/2011	12/1/2011			\$ 270	\$ 75,000
	SOUTH PLAINS WOLFFORTH Interconnection	3/1/2011	3/1/2011			\$ -	\$ -
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 42,317	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 28,667	\$ 21,000,000
	Tuco - Tolk 345kV	4/1/2007	6/1/2010		No	\$ 163,783	\$ 24,875,000
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 41,015	\$ 10,318,679
Total						\$ 635,311	\$ 214,176,282

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
1090454	BC-EARTH INTERCHANGE 115KV	6/1/2016	6/1/2016		
	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	Hart Interchange 230/115 kV	6/1/2011	6/1/2011		
	Pringle - Etter 115 kV	12/1/2011	12/1/2011		
	Seven Rivers to Pecos to Potash Junction 230kV	6/1/2007	6/1/2009		Yes

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
1090454	Morewood Conversion	12/1/2011	6/1/2008		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
GSEC AG2-2006-133

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
GSEC	1090487	SPS	SPS	150	4/1/2007	4/1/2017	6/1/2010	6/1/2020	\$ 27,000,000	\$ -	\$10,670,817	\$ -
									\$ 27,000,000	\$ -	\$10,670,817	\$ 219,502,927

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	
1090487	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	4/1/2007	6/1/2010		Yes	\$ 288,730	\$ 1,515,113	
	Hart Interchange 115/69 kV	6/1/2016	6/1/2016			\$ 403,858	\$ 3,500,000	
	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 789,001	\$ 14,795,676	
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		Yes	\$ 1,480,561	\$ 94,396,814	
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 39,211	\$ 2,500,000	
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 20,212	\$ 5,000,000	
	MUSTANG STATION 230/115KV TRANSFORMER CKT 1	4/1/2007	4/1/2008		Yes	\$ 2,425,979	\$ 2,500,000	
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 565,642	\$ 3,200,000	
	SOUTH PLAINS WOLFFORTH Interconnection	3/1/2011	3/1/2011			\$ -	\$ -	
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 260,487	\$ 31,000,000	
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 176,459	\$ 21,000,000	
	Tex-Hitchland-Sherman Tap 115 kV ckt	4/1/2007	4/1/2010		Yes	\$ 229,552	\$ 2,401,645	
	Tuco - Tolk 345kV	4/1/2007	6/1/2010		No	\$ 2,014,505	\$ 24,875,000	
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 734,866	\$ 10,318,679	
	YOAKUM COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2007	6/1/2007			\$ 1,241,754	\$ 2,500,000	
						Total	\$ 10,670,817	\$ 219,502,927

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
1090487	BC-EARTH INTERCHANGE 115KV	6/1/2016	6/1/2016		
	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	Hart Interchange 230/115 kV	6/1/2011	6/1/2011		
	KRESS INTERCHANGE 115/69KV TRANSFORMERS	4/1/2007	6/1/2006		
	Pringle - Etter 115 kV	12/1/2011	12/1/2011		
	Seven Rivers to Pecos to Potash Junction 230kV	6/1/2007	6/1/2009		Yes
	TERRY COUNTY INTERCHANGE 115/69KV TRANSFORMERS	6/1/2007	6/1/2007		
	TUCO INTERCHANGE 115/69KV TRANSFORMER	6/1/2007	6/1/2007		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
GSEC AG2-2006-134

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
GSEC	1090324	SPS	SPS	25	3/1/2013	3/1/2043	3/1/2013	3/1/2043	\$ -	\$ -	\$ 3,515,531	\$ -
									\$ -	\$ -	\$ 3,515,531	\$ 238,309,996

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	
1090324	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	4/1/2007	6/1/2010		No	\$ 10,807	\$ 1,515,113	
	Hart Interchange 115/69 kV	6/1/2016	6/1/2016			\$ 30,888	\$ 3,500,000	
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		No	\$ 821,093	\$ 94,396,814	
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 21,746	\$ 2,500,000	
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 16,998	\$ 5,000,000	
	Potter - Roosevelt 345KV	4/1/2007	6/1/2010		No	\$ 739,823	\$ 38,504,390	
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 27,372	\$ 3,200,000	
	SOUTH PLAINS MILWAUKEE Interconnection	3/1/2013	3/1/2013			\$ -	\$ -	
	SOUTH PLAINS SLIDE Interconnection	3/1/2016	3/1/2016			\$ -	\$ -	
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 125,003	\$ 31,000,000	
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 84,679	\$ 21,000,000	
	Tuco - Tolk 345kV	4/1/2007	6/1/2010		No	\$ 1,161,347	\$ 24,875,000	
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 356,474	\$ 10,318,679	
	YOAKUM COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2007	6/1/2007			\$ 119,301	\$ 2,500,000	
						Total	\$ 3,515,531	\$ 238,309,996

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
1090324	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	Hart Interchange 230/115 kV	6/1/2011	6/1/2011		

Customer Study Number  
GSEC AG2-2006-135

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
GSEC	1090328	SPS	SPS	25	3/1/2016	3/1/2046	3/1/2016	3/1/2046	\$ -	\$ -	\$ 3,515,531	\$ -
									\$ -	\$ -	\$ 3,515,531	\$ 238,309,996

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	
1090328	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	4/1/2007	6/1/2010		No	\$ 10,807	\$ 1,515,113	
	Hart Interchange 115/69 kV	6/1/2016	6/1/2016			\$ 30,888	\$ 3,500,000	
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		No	\$ 821,093	\$ 94,396,814	
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 21,746	\$ 2,500,000	
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 16,998	\$ 5,000,000	
	Potter - Roosevelt 345KV	4/1/2007	6/1/2010		No	\$ 739,823	\$ 38,504,390	
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 27,372	\$ 3,200,000	
	SOUTH PLAINS MILWAUKEE Interconnection	3/1/2013	3/1/2013			\$ -	\$ -	
	SOUTH PLAINS SLIDE Interconnection	3/1/2016	3/1/2016			\$ -	\$ -	
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 125,003	\$ 31,000,000	
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 84,679	\$ 21,000,000	
	Tuco - Tolk 345kV	4/1/2007	6/1/2010		No	\$ 1,161,347	\$ 24,875,000	
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 356,474	\$ 10,318,679	
	YOAKUM COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2007	6/1/2007			\$ 119,301	\$ 2,500,000	
						Total	\$ 3,515,531	\$ 238,309,996

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
1090328	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	Hart Interchange 230/115 kV	6/1/2011	6/1/2011		



Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
GSEC AG2-2006-136

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
GSEC	1090456	SPS	SPS	15	7/1/2007	7/1/2037	6/1/2010	6/1/2040	\$ -	\$ -	\$ 3,144,285	\$ -
									\$ -	\$ -	\$ 3,144,285	\$ 215,552,927

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090456	CIMARRON RIVER PLANT - NORTH CIMARRON 115KV CKT 1	6/1/2011	6/1/2011			\$ 1,574	\$ 150,000
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	4/1/2007	6/1/2010		Yes	\$ 3,140	\$ 1,515,113
	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 737,412	\$ 14,795,676
	MIDWAY 69 KV STATCOM	6/1/2007	6/1/2008	12/1/2007	No	\$ 11,053	\$ 3,000,000
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		Yes	\$ 867,078	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 22,964	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 7,211	\$ 5,000,000
	NORTH CIMARRON 24MVAR CAPACITOR	6/1/2011	6/1/2011			\$ 14,728	\$ 1,400,000
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 6,045	\$ 3,200,000
	SOUTH PLAINS WOLFFORTH Interconnection	3/1/2011	3/1/2011			\$ -	\$ -
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 191,659	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 129,833	\$ 21,000,000
	Tex-Hitchland-Sherman Tap 115 kV ckt	4/1/2007	4/1/2010		Yes	\$ 630,238	\$ 2,401,645
	TRI COUNTY HILLER Interconnection	7/1/2007	7/1/2007			\$ -	\$ -
	Tuco - Tolk 345kV	4/1/2007	6/1/2010		No	\$ 421,735	\$ 24,875,000
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 99,615	\$ 10,318,679
Total						\$ 3,144,285	\$ 215,552,927

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
1090456	BC-EARTH INTERCHANGE 115KV	6/1/2016	6/1/2016		
	BOOKER 69KV	6/1/2016	6/1/2016		
	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	Hart Interchange 230/115 kv	6/1/2011	6/1/2011		
	Pringle - Etter 115 kV	12/1/2011	12/1/2011		
	Seven Rivers to Pecos to Potash Junction 230kV	6/1/2007	6/1/2009		Yes
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No

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
1090456	HOLCOMB - PLYMELL - PIONEER TAP 115KV CKT 1	6/1/2007	6/1/2008	10/1/2007	Yes

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
KBPU AG2-2006-041

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
KBPU	1089950	WR	KACY	25	10/1/2007	10/1/2027	6/1/2011	6/1/2031	\$ -	\$ 5,280,000	\$ 2,862,359	\$ -
									\$ -	\$ 5,280,000	\$ 2,862,359	\$ 263,350,311

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1089950	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1	6/1/2008	6/1/2008			\$ 693,397	\$ 2,580,000
	CROSSTOWN - NEAST 161KV CKT 1	6/1/2015	6/1/2015			\$ 233,393	\$ 650,000
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	4/1/2007	6/1/2010		Yes	\$ 252	\$ 1,515,113
	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 13,343	\$ 14,795,676
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 21,957	\$ 3,000,000
	LAWRENCE HILL (LAWHL29X) 230/115/13.8KV TRANSFORMER CKT 1	6/1/2016	6/1/2016			\$ 176,924	\$ 2,250,000
	MIDWAY 69 KV STATCOM	6/1/2007	6/1/2008	12/1/2007	No	\$ 11,866	\$ 3,000,000
	MOCKINGBIRD HILL SWITCHING STATION - STULL SWITCHING STATION 115KV CKT 1	6/1/2011	6/1/2011			\$ 640,509	\$ 2,200,000
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		Yes	\$ 158,509	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 4,198	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 34,382	\$ 5,000,000
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$ 11,420	\$ 1,164,639
	Potter - Roosevelt 345KV	4/1/2007	6/1/2010		No	\$ 40,681	\$ 38,504,390
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 674	\$ 3,200,000
	SOUTHWEST LAWRENCE - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2007	3/1/2008	10/1/2007	No	\$ 538,183	\$ 1,400,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 150,366	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 101,861	\$ 21,000,000
	Tuco - Tolk 345kV	4/1/2007	6/1/2010		No	\$ 23,068	\$ 24,875,000
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 7,376	\$ 10,318,679
						Total	\$ 2,862,359 \$ 263,350,311

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
1089950	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2008	6/1/2008		
	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	FARMERS CONSUMER CO-OP - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT	6/1/2007	1/1/2008	10/1/2007	No
	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	12/1/2006	12/1/2008	10/1/2008	Yes
	STULL SWITCHING STATION - TECUMSEH HILL 115KV CKT 1	10/1/2007	4/1/2008	12/1/2007	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
1089950	166TH STREET - JAGGARD JUNCTION 115KV CKT 1	6/1/2009	6/1/2009		
	166TH STREET - JARBALO JUNCTION SWITCHING STATION 115KV CKT 1	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
1089950	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		
	KAW WEST 161/69KV TRANSFORMER CKT 1	6/1/2007	6/1/2008		No
	Morewood Conversion	12/1/2011	6/1/2008		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
KBPU AG2-2006-042

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
KBPU	1089952	SPA	KACY	39	7/1/2007	7/1/2017	10/1/2008	10/1/2018	\$ 4,500,000	\$ 4,118,400	\$ 3,036,178	\$ -
									\$ 4,500,000	\$ 4,118,400	\$ 3,036,178	\$ 31,713,803

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1089952	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	6/1/2009	6/1/2009			\$ 260,734	\$ 6,000,000
	BROKEN BOW - CRAIG JUNCTION 138KV CKT 1	12/1/2006	6/1/2008		Yes	\$ 1,787,786	\$ 4,000,000
	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2010	6/1/2010			\$ 90,028	\$ 2,500,000
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2010	6/1/2010			\$ 18,006	\$ 500,000
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	6/1/2014	6/1/2014			\$ 397,335	\$ 9,200,000
	CRESWELL - NEWKIRK 138KV CKT 1	6/1/2011	6/1/2011			\$ 80,203	\$ 4,740,000
	CROSTOWN - NEAST 161KV CKT 1	6/1/2015	6/1/2015			\$ 390,998	\$ 650,000
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 11,088	\$ 4,123,803
Total						\$ 3,036,178	\$ 31,713,803

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
1089952	BULL SHOALS - BULL SHOALS 161KV CKT 1	6/1/2009	6/1/2009		
	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	12/1/2006	12/1/2008	10/1/2008	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
1089952	166TH STREET - JAGGARD JUNCTION 115KV CKT 1	6/1/2009	6/1/2009		
	166TH STREET - JARBALO JUNCTION SWITCHING STATION 115KV CKT 1	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
1089952	KAW WEST 161/69KV TRANSFORMER CKT 1	6/1/2007	6/1/2008		Yes
	LACYGNE-PAOLA-WEST GARDER 345KV	6/1/2007	6/1/2008		Yes

Customer Study Number  
KCPS AG2-2006-090

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
KCPS	1090801	KCPL	AECE	1	11/1/2006	6/1/2025	11/1/2006	6/1/2025	\$ -	\$ 200,700	\$ -	\$ -
KCPS	1090802	KCPL	AECE	1	11/1/2006	6/1/2025	11/1/2006	6/1/2025	\$ -	\$ 200,700	\$ -	\$ -
									\$ -	\$ 401,400	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090801	None					\$ -	\$ -
Total						\$ -	\$ -
1090802	None					\$ -	\$ -
Total						\$ -	\$ -

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
 KCPS AG2-2006-091

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
KCPS	1090773	KCPL	KACY	10	11/1/2006	6/1/2010	10/1/2008	10/1/2012	\$ -	\$ 378,400	\$ -	\$ -
KCPS	1090782	KCPL	KACY	24	11/1/2006	6/1/2010	10/1/2008	10/1/2012	\$ -	\$ 908,160	\$ -	\$ -
KCPS	1090787	KCPL	KACY	11	11/1/2006	6/1/2010	10/1/2008	10/1/2012	\$ -	\$ 416,240	\$ -	\$ -
KCPS	1090815	KCPL	KACY	12	11/1/2006	6/1/2010	10/1/2008	10/1/2012	\$ -	\$ 454,080	\$ -	\$ -
KCPS	1090818	KCPL	KACY	25	11/1/2006	6/1/2010	10/1/2008	10/1/2012	\$ -	\$ 946,000	\$ -	\$ -
									\$ -	\$ 3,102,880	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090773	None					\$ -	\$ -
						Total	\$ -
1090782	None					\$ -	\$ -
						Total	\$ -
1090782	None					\$ -	\$ -
						Total	\$ -
1090787	None					\$ -	\$ -
						Total	\$ -
1090815	None					\$ -	\$ -
						Total	\$ -
1090818	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
1090773	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CKT 1	39600	6/1/2008		
	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CKT 1	39600	6/1/2008		
1090782	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	39052	12/1/2008		
	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2008	6/1/2008		
1090787	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	12/1/2006	12/1/2008		
	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2008	6/1/2008	10/1/2008	No
1090815	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	12/1/2006	12/1/2008	10/1/2008	No
	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2008	6/1/2008	10/1/2008	No
1090818	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	12/1/2006	12/1/2008	10/1/2008	No
	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	12/1/2006	12/1/2008	10/1/2008	No

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
1090773	KAW WEST 161/69KV TRANSFORMER CKT 1	6/1/2007	6/1/2008		Yes
1090782	KAW WEST 161/69KV TRANSFORMER CKT 1	6/1/2007	6/1/2008		Yes
1090787	KAW WEST 161/69KV TRANSFORMER CKT 1	6/1/2007	6/1/2008		Yes
1090815	KAW WEST 161/69KV TRANSFORMER CKT 1	6/1/2007	6/1/2008		Yes
1090818	KAW WEST 161/69KV TRANSFORMER CKT 1	6/1/2007	6/1/2008		Yes

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
 KEPC AG2-2006-067

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
KEPC	1090416	KCPL	WR	30	6/1/2010	6/1/2030	6/1/2011	6/1/2031	\$ 5,400,000	\$ -	\$ 2,454,531	\$ -
									\$ 5,400,000	\$ -	\$ 2,454,531	\$ 81,863,803

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090416	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2010	6/1/2010			\$ 141,674	\$ 2,500,000
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2010	6/1/2010			\$ 28,335	\$ 500,000
	CRESWELL - NEWKIRK 138KV CKT 1	6/1/2011	6/1/2011			\$ 86,611	\$ 4,740,000
	CRESWELL (CRESWL1X) 138/69/13.2KV TRANSFORMER CKT 1	6/1/2011	6/1/2011			\$ 127,041	\$ 4,000,000
	CRESWELL (CRESWL2X) 138/69/13.2KV TRANSFORMER CKT 1	6/1/2007	4/1/2009	10/1/2008	No	\$ 97,433	\$ 4,000,000
	EEC - COWSKIN 138KV	6/1/2010	6/1/2010			\$ 956,068	\$ 10,000,000
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 330,739	\$ 4,123,803
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER	6/1/2007	4/1/2008	10/1/2007	No	\$ 183,351	\$ 4,000,000
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2008	6/1/2008			\$ 448,293	\$ 6,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 54,986	\$ 42,000,000
					Total	\$ 2,454,531	\$ 81,863,803

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
1090416	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	6/1/2010	6/1/2010		
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	6/1/2010	6/1/2010		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	STRANGER - THORNTON 115KV	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
1090416	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
KEPC AG2-2006-105

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
KEPC	1090808	WR	WR	6	10/1/2006	10/1/2036	6/1/2011	6/1/2041	\$ -	\$ -	\$ 2,233,460	\$ -
KEPC	1090825	WR	WR	5	10/1/2006	10/1/2026	6/1/2011	6/1/2031	\$ -	\$ -	\$ 1,269,746	\$ -
KEPC	1090840	WR	WR	6	10/1/2006	10/1/2026	6/1/2011	6/1/2031	\$ -	\$ -	\$ 1,795,501	\$ -
									\$ -	\$ -	\$ 5,298,707	\$ 906,892,285

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090808	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1	6/1/2008	6/1/2008			\$ 349,766	\$ 2,580,000
	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	6/1/2009	6/1/2009			\$ 119,777	\$ 6,000,000
	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2010	6/1/2010			\$ 59,887	\$ 2,500,000
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2010	6/1/2010			\$ 11,977	\$ 500,000
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	6/1/2014	6/1/2014			\$ 182,845	\$ 9,200,000
	COUNTY LINE - HOOK JCT 115KV CKT 1	6/1/2011	6/1/2011			\$ 69,021	\$ 1,400,000
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	4/1/2007	6/1/2010		Yes	\$ 49	\$ 1,515,113
	EEC - COWSKIN 138KV	6/1/2010	6/1/2010			\$ 86,125	\$ 10,000,000
	GILL ENERGY CENTER EAST - GILLJCT269.0 69KV CKT 1	6/1/2007	2/1/2008	10/1/2007	Yes	\$ 215,472	\$ 1,500,000
	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 2,884	\$ 14,795,676
	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1	6/1/2011	6/1/2011			\$ 46,917	\$ 1,400,000
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014			\$ 26,015	\$ 7,300,000
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			\$ 23,164	\$ 6,500,000
	LAWRENCE HILL - WREN 115KV CKT 1	6/1/2010	6/1/2010			\$ 210,955	\$ 1,200,000
	LAWRENCE HILL (LAWHL29X) 230/115/13.8KV TRANSFORMER CKT 1	6/1/2016	6/1/2016			\$ 298,070	\$ 2,250,000
	MIDWAY 69 KV STATCOM	6/1/2007	6/1/2008	12/1/2007	No	\$ 2,348	\$ 3,000,000
	MOCKINGBIRD HILL SWITCHING STATION - STULL SWITCHING STATION 115KV CKT 1	6/1/2011	6/1/2011			\$ 263,307	\$ 2,200,000
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		Yes	\$ 28,144	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 745	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 5,809	\$ 5,000,000
	Potter - Roosevelt 345KV	4/1/2007	6/1/2010		No	\$ 8,230	\$ 38,504,390
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 135	\$ 3,200,000
	SOUTHWEST LAWRENCE - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2007	3/1/2008	10/1/2007	Yes	\$ 172,504	\$ 1,400,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 25,709	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 17,416	\$ 21,000,000
	Tuco - Tolk 345KV	4/1/2007	6/1/2010		No	\$ 4,690	\$ 24,875,000
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 1,499	\$ 10,318,679
					Total	\$ 2,233,460	\$ 306,035,672
1090825	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1	6/1/2008	6/1/2008			\$ 214,264	\$ 2,580,000
	COUNTY LINE - HOOK JCT 115KV CKT 1	6/1/2011	6/1/2011			\$ 43,763	\$ 1,400,000
	EEC - COWSKIN 138KV	6/1/2010	6/1/2010			\$ 42,542	\$ 10,000,000
	GILL ENERGY CENTER EAST - GILLJCT269.0 69KV CKT 1	6/1/2007	2/1/2008	10/1/2007	Yes	\$ 219,369	\$ 1,500,000
	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1	6/1/2011	6/1/2011			\$ 29,738	\$ 1,400,000
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014			\$ 24,419	\$ 7,300,000
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			\$ 21,743	\$ 6,500,000
	LAWRENCE HILL - WREN 115KV CKT 1	6/1/2010	6/1/2010			\$ 200,698	\$ 1,200,000
	LAWRENCE HILL (LAWHL29X) 230/115/13.8KV TRANSFORMER CKT 1	6/1/2016	6/1/2016			\$ 264,609	\$ 2,250,000
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		No	\$ 7,538	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 200	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 2,007	\$ 5,000,000
	SOUTHWEST LAWRENCE - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2007	3/1/2008	10/1/2007	Yes	\$ 47,535	\$ 1,400,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 7,608	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 5,154	\$ 21,000,000
	Tuco - Tolk 345KV	4/1/2007	6/1/2010		No	\$ 1,512	\$ 24,875,000
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 485	\$ 10,318,679
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 136,562	\$ 42,000,000
					Total	\$ 1,269,746	\$ 266,620,493
1090840	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1	6/1/2008	6/1/2008			\$ 286,723	\$ 2,580,000
	COUNTY LINE - HOOK JCT 115KV CKT 1	6/1/2011	6/1/2011			\$ 186,957	\$ 1,400,000
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	4/1/2007	6/1/2010		No	\$ 11	\$ 1,515,113
	EEC - COWSKIN 138KV	6/1/2010	6/1/2010			\$ 57,763	\$ 10,000,000
	GILL ENERGY CENTER EAST - GILLJCT269.0 69KV CKT 1	6/1/2007	2/1/2008	10/1/2007	Yes	\$ 261,025	\$ 1,500,000
	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 114	\$ 14,795,676
	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1	6/1/2011	6/1/2011			\$ 127,048	\$ 1,400,000
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014			\$ 29,291	\$ 7,300,000
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			\$ 26,081	\$ 6,500,000
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 9,126	\$ 4,123,803
	LAWRENCE HILL - WREN 115KV CKT 1	6/1/2010	6/1/2010			\$ 248,606	\$ 1,200,000
	LAWRENCE HILL (LAWHL29X) 230/115/13.8KV TRANSFORMER CKT 1	6/1/2016	6/1/2016			\$ 341,061	\$ 2,250,000
	MIDWAY 69 KV STATCOM	6/1/2007	6/1/2008	12/1/2007	No	\$ 1,228	\$ 3,000,000
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		No	\$ 13,167	\$ 94,396,814

**Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade**

Upgrade Name	Start Date	End Date	Earliest Service Start Date	Yes	No	Cost	Allocated Cost
Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010			No	\$ 349	\$ 2,500,000
Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010			No	\$ 1,748	\$ 5,000,000
Potter - Roosevelt 345KV	4/1/2007	6/1/2010			No	\$ 1,306	\$ 38,504,390
ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010			No	\$ 22	\$ 3,200,000
RUSSELL SWITCH CAPACITOR	12/1/2011	12/1/2011				\$ 11	\$ 75,000
SOUTHWEST LAWRENCE - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2007	3/1/2008	10/1/2007	Yes		\$ 76,967	\$ 1,400,000
Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010			No	\$ 8,466	\$ 31,000,000
Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010			No	\$ 5,735	\$ 21,000,000
Tex-Hitchland-Sherman Tap 115 kv ckt	4/1/2007	4/1/2010			No	\$ 41	\$ 2,401,645
Tuco - Tolk 345KV	4/1/2007	6/1/2010			No	\$ 1,487	\$ 24,875,000
TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010			No	\$ 474	\$ 10,318,679
WICHITA - RENO 345KV	10/1/2006	6/1/2011			Yes	\$ 110,694	\$ 42,000,000
<b>Total</b>						<b>\$ 1,795,501</b>	<b>\$ 334,236,120</b>

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
1090808	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	6/1/2010	6/1/2010		
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	6/1/2010	6/1/2010		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	FARMERS CONSUMER CO-OP - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT	6/1/2007	1/1/2008	10/1/2007	Yes
	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1	6/1/2007	1/1/2008	10/1/2007	Yes
	GILLJCT269.0 - OATVILLE 69KV CKT 1	6/1/2012	6/1/2012		
	KELLY - KING HILL N.M. COOP 115KV CKT 1	6/1/2010	6/1/2010		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	STULL SWITCHING STATION - TECUMSEH HILL 115KV CKT 1	10/1/2007	4/1/2008	12/1/2007	No
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2011	6/1/2011		
1090825	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	FARMERS CONSUMER CO-OP - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT	6/1/2007	1/1/2008	10/1/2007	Yes
	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1	6/1/2007	1/1/2008	10/1/2007	Yes
	GILLJCT269.0 - OATVILLE 69KV CKT 1	6/1/2012	6/1/2012		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	STULL SWITCHING STATION - TECUMSEH HILL 115KV CKT 1	10/1/2007	4/1/2008	12/1/2007	No
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2011	6/1/2011		
1090840	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	FARMERS CONSUMER CO-OP - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT	6/1/2007	1/1/2008	10/1/2007	Yes
	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1	6/1/2007	1/1/2008	10/1/2007	Yes
	GILLJCT269.0 - OATVILLE 69KV CKT 1	6/1/2012	6/1/2012		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	STULL SWITCHING STATION - TECUMSEH HILL 115KV CKT 1	10/1/2007	4/1/2008	12/1/2007	No
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2011	6/1/2011		

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
1090808	166TH STREET - JAGGARD JUNCTION 115KV CKT 1	6/1/2009	6/1/2009		
	166TH STREET - JARBALO JUNCTION SWITCHING STATION 115KV CKT 1	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
1090808	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		
	Morewood Conversion	12/1/2011	6/1/2008		
1090840	LACYGNE-PAOLA-WEST GARDER 345KV	6/1/2007	6/1/2008		Yes
	Morewood Conversion	12/1/2011	6/1/2008		

Notes:

New Delivery Points' Interconnection costs indeterminate

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
 KEPC AG2-2006-119

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
KEPC	1090820	WR	WR	60	6/1/2008	6/1/2038	6/1/2011	6/1/2041	\$ 10,800,000	\$ -	\$ 3,180,628	\$ -
									\$ 10,800,000	\$ -	\$ 3,180,628	\$ 171,822,453

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090820	CIMARRON RIVER PLANT - NORTH CIMARRON 115KV CKT 1	6/1/2011	6/1/2011			\$ 2,730	\$ 150,000
	CLAY CENTER - GREENLEAF 115KV CKT 1	6/1/2011	6/1/2011			\$ 875,929	\$ 7,520,000
	EEC - COWSKIN 138KV	6/1/2010	6/1/2010			\$ 1,204,515	\$ 10,000,000
	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 76,073	\$ 14,795,676
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		Yes	\$ 237,463	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 6,289	\$ 2,500,000
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$ 172,193	\$ 1,164,639
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$ 535,767	\$ 3,700,000
	Tex-Hitchland-Sherman Tap 115 kV ckt	4/1/2007	4/1/2010		No	\$ 31,403	\$ 2,401,645
	Tuco - Tolk 345kV	4/1/2007	6/1/2010		No	\$ 29,104	\$ 24,875,000
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 9,162	\$ 10,318,679
						Total \$ 3,180,628	\$ 171,822,453

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
1090820	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	6/1/2010	6/1/2010		
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	6/1/2010	6/1/2010		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	KELLY - KING HILL N.M. COOP 115KV CKT 1	6/1/2010	6/1/2010		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No



Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
 KEPC AG2-2006-120

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
KEPC	1090745	SECI	WPEK	25	6/1/2010	6/1/2030	6/1/2010	6/1/2030	\$ 4,500,000	\$ -	\$ 2,456,208	\$ -
									\$ 4,500,000	\$ -	\$ 2,456,208	\$ 273,271,967

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090745	CIMARRON RIVER PLANT - NORTH CIMARRON 115KV CKT 1	6/1/2011	6/1/2011			\$ 2,799	\$ 150,000
	CLAY CENTER - GREENLEAF 115KV CKT 1	6/1/2011	6/1/2011			\$ 372,818	\$ 7,520,000
	CRESWELL - NEWKIRK 138KV CKT 1	6/1/2011	6/1/2011			\$ 61,135	\$ 4,740,000
	EEC - COWSKIN 138KV	6/1/2010	6/1/2010			\$ 516,369	\$ 10,000,000
	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 153,235	\$ 14,795,676
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 40,191	\$ 4,123,803
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 13,133	\$ 3,000,000
	MIDWAY 69 KV STATCOM	6/1/2007	6/1/2008	12/1/2007	No	\$ 37,567	\$ 3,000,000
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		No	\$ 12,866	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 341	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 92,813	\$ 5,000,000
	NORTH CIMARRON 24MVAR CAPACITOR	6/1/2011	6/1/2011			\$ 29,422	\$ 1,400,000
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$ 31,998	\$ 1,164,639
	Potter - Roosevelt 345KV	4/1/2007	6/1/2010		No	\$ 239,774	\$ 38,504,390
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$ 162,097	\$ 3,700,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 313,955	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 212,679	\$ 21,000,000
	Tex-Hitchland-Sherman Tap 115 kV ckt	4/1/2007	4/1/2010		No	\$ 23,057	\$ 2,401,645
	Tuco - Tolk 345kV	4/1/2007	6/1/2010		No	\$ 139,959	\$ 24,875,000
						Total	\$ 2,456,208 \$ 273,271,967

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
1090745	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	6/1/2010	6/1/2010		
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	6/1/2010	6/1/2010		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	ELLSWORTH 230KV TAP	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
1090745	Morewood Conversion	12/1/2011	6/1/2008		

**Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade**

Customer Study Number  
KEPC AG2-2006-121

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
KEPC	1090754	SECI	WR	25	6/1/2010	6/1/2030	6/1/2011	6/1/2031	\$ 4,500,000	\$ -	\$ 3,307,664	\$ -
									\$ 4,500,000	\$ -	\$ 3,307,664	\$ 260,763,797

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090754	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	6/1/2009	6/1/2009			\$ 320,931	\$ 6,000,000
	CIMARRON RIVER PLANT - NORTH CIMARRON 115KV CKT 1	6/1/2011	6/1/2011			\$ 1,763	\$ 150,000
	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2010	6/1/2010			\$ 150,669	\$ 2,500,000
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2010	6/1/2010			\$ 30,134	\$ 500,000
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	6/1/2014	6/1/2014			\$ 493,773	\$ 9,200,000
	CRESWELL - NEWKIRK 138KV CKT 1	6/1/2011	6/1/2011			\$ 117,066	\$ 4,740,000
	CRESWELL (CRESWL1X) 138/69/13.2KV TRANSFORMER CKT 1	6/1/2011	6/1/2011			\$ 123,168	\$ 4,000,000
	CRESWELL (CRESWL2X) 138/69/13.2KV TRANSFORMER CKT 1	6/1/2007	4/1/2009	10/1/2008	No	\$ 94,463	\$ 4,000,000
	GREENSBURG - JUDSON LARGE 115KV CKT 1	10/1/2006	6/1/2007		No	\$ 7,551	\$ 153,114
	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 151,146	\$ 14,795,676
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 45,012	\$ 4,123,803
	MEDICINE LODGE - SUN CITY 115KV CKT 1	6/1/2007	6/1/2007			\$ 5,681	\$ 100,000
	MIDWAY 69 KV STATCOM	6/1/2007	6/1/2008	12/1/2007	No	\$ 49,035	\$ 3,000,000
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		No	\$ 140,266	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 3,715	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 132,858	\$ 5,000,000
	NORTH CIMARRON 24MVAR CAPACITOR	6/1/2011	6/1/2011			\$ 19,360	\$ 1,400,000
	Potter - Roosevelt 345KV	4/1/2007	6/1/2010		No	\$ 296,940	\$ 38,504,390
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER	6/1/2007	4/1/2008	10/1/2007	No	\$ 100,271	\$ 4,000,000
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$ 50,894	\$ 3,700,000
	Speerville - Mooreland 345 kV SLUNC	4/1/2007	6/1/2010		No	\$ 476,429	\$ 31,000,000
	Speerville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 322,742	\$ 21,000,000
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2008	6/1/2008			\$ 173,797	\$ 6,000,000
						<b>Total</b>	<b>\$ 3,307,664 \$ 260,763,797</b>

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
1090754	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	ELLSWORTH 230KV TAP	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
1090754	Morewood Conversion	12/1/2011	6/1/2008		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
KEPC AG2-2006-122

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
KEPC	1090729	WR	KCPL	14	6/1/2007	6/1/2012	6/1/2011	6/1/2016	\$ 2,520,000	\$ -	\$ 4,293,463	\$ -
									\$ 2,520,000	\$ -	\$ 4,293,463	\$ 327,585,672

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090729	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1	6/1/2008	6/1/2008			\$ 840,330	\$ 2,580,000
	COUNTY LINE - HOOK JCT 115KV CKT 1	6/1/2011	6/1/2011			\$ 167,078	\$ 1,400,000
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	4/1/2007	6/1/2010		Yes	\$ 88	\$ 1,515,113
	EEC - COWSKIN 138KV	6/1/2010	6/1/2010			\$ 190,873	\$ 10,000,000
	GILL ENERGY CENTER EAST - GILLJCT269.0 69KV CKT 1	6/1/2007	2/1/2008	10/1/2007	Yes	\$ 630,876	\$ 1,500,000
	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 4,281	\$ 14,795,676
	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1	6/1/2011	6/1/2011			\$ 113,543	\$ 1,400,000
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014			\$ 72,854	\$ 7,300,000
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			\$ 64,870	\$ 6,500,000
	LAWRENCE HILL - WREN 115KV CKT 1	6/1/2010	6/1/2010			\$ 366,498	\$ 1,200,000
	MIDWAY 69 KV STATCOM	6/1/2007	6/1/2008	12/1/2007	No	\$ 5,454	\$ 3,000,000
	MOCKINGBIRD HILL SWITCHING STATION - STULL SWITCHING STATION 115KV CKT 1	6/1/2011	6/1/2011			\$ 1,088,507	\$ 2,200,000
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		Yes	\$ 59,052	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 1,564	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 10,601	\$ 5,000,000
	Potter - Roosevelt 345KV	4/1/2007	6/1/2010		No	\$ 13,601	\$ 38,504,390
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 225	\$ 3,200,000
	SOUTHWEST LAWRENCE - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2007	3/1/2008	10/1/2007	Yes	\$ 499,174	\$ 1,400,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 48,611	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 32,930	\$ 21,000,000
	Tuco - Tolk 345KV	4/1/2007	6/1/2010		No	\$ 7,702	\$ 24,875,000
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 2,459	\$ 10,318,679
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		No	\$ 72,292	\$ 42,000,000
						<b>Total</b>	<b>\$ 4,293,463 \$ 327,585,672</b>

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
1090729	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	6/1/2010	6/1/2010		
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	6/1/2010	6/1/2010		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	FARMERS CONSUMER CO-OP - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2007	1/1/2008	10/1/2007	Yes
	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1	6/1/2007	1/1/2008	10/1/2007	Yes
	GILLJCT269.0 - OATVILLE 69KV CKT 1	6/1/2012	6/1/2012		
	KELLY - KING HILL N.M. COOP 115KV CKT 1	6/1/2010	6/1/2010		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	STULL SWITCHING STATION - TECUMSEH HILL 115KV CKT 1	10/1/2007	4/1/2008	12/1/2007	No
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2011	6/1/2011		

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
1090729	166TH STREET - JAGGARD JUNCTION 115KV CKT 1	6/1/2009	6/1/2009		
	166TH STREET - JARBALO JUNCTION SWITCHING STATION 115KV CKT 1	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
1090729	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		
	LACYGNE-PAOLA-WEST GARDER 345KV	6/1/2007	6/1/2008		Yes
	Morewood Conversion	12/1/2011	6/1/2008		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
 KEPC AG2-2006-123

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
KEPC	1090823	WR	WR	5	6/1/2007	6/1/2027	6/1/2011	6/1/2031	\$ -	\$ -	\$ 1,394,477	\$ -
									\$ -	\$ -	\$ 1,394,477	\$ 274,820,493

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090823	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1	6/1/2008	6/1/2008			\$ 195,519	\$ 2,580,000
	COUNTY LINE - HOOK JCT 115KV CKT 1	6/1/2011	6/1/2011			\$ 49,410	\$ 1,400,000
	EEC - COWSKIN 138KV	6/1/2010	6/1/2010			\$ 39,517	\$ 10,000,000
	GILL ENERGY CENTER EAST - GILLJCT269.0 69KV CKT 1	6/1/2007	2/1/2008	10/1/2007	Yes	\$ 173,259	\$ 1,500,000
	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1	6/1/2011	6/1/2011			\$ 33,571	\$ 1,400,000
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014			\$ 20,074	\$ 7,300,000
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			\$ 17,874	\$ 6,500,000
	LAWRENCE HILL - WREN 115KV CKT 1	6/1/2010	6/1/2010			\$ 173,242	\$ 1,200,000
	LAWRENCE HILL (LAWHL29X) 230/115/13.8KV TRANSFORMER CKT 1	6/1/2016	6/1/2016			\$ 221,977	\$ 2,250,000
	MOCKINGBIRD HILL SWITCHING STATION - STULL SWITCHING STATION 115KV CKT 1	6/1/2011	6/1/2011			\$ 207,677	\$ 2,200,000
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		No	\$ 6,634	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 176	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 2,423	\$ 5,000,000
	SOUTHWEST LAWRENCE - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2007	3/1/2008	10/1/2007	Yes	\$ 65,638	\$ 1,400,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 9,546	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 6,467	\$ 21,000,000
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2008	6/1/2008			\$ 2,794	\$ 6,000,000
	Tuco - Tolk 345kV	4/1/2007	6/1/2010		No	\$ 1,781	\$ 24,875,000
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 573	\$ 10,318,679
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 166,325	\$ 42,000,000
<b>Total</b>						<b>\$ 1,394,477</b>	<b>\$ 274,820,493</b>

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
1090823	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	FARMERS CONSUMER CO-OP - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT	6/1/2007	1/1/2008	10/1/2007	Yes
	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1	6/1/2007	1/1/2008	10/1/2007	Yes
	GILLJCT269.0 - OATVILLE 69KV CKT 1	6/1/2012	6/1/2012		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	STULL SWITCHING STATION - TECUMSEH HILL 115KV CKT 1	10/1/2007	4/1/2008	12/1/2007	No
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2011	6/1/2011		

Notes:  
 New Delivery Point Interconnection costs indeterminate

**Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade**

Customer Study Number  
KMEA AG2-2006-065

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
KMEA	1090401	GRDA	KCPL	1	5/1/2007	5/1/2026	10/1/2008	10/1/2027	\$ 180,000	\$ -	\$ 118,310	\$ -
KMEA	1090528	GRDA	KCPL	1	5/1/2007	5/1/2026	10/1/2008	10/1/2027	\$ 180,000	\$ -	\$ 118,310	\$ -
									\$ 360,000	\$ -	\$ 236,620	\$ 62,159,608

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090401	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	6/1/2009	6/1/2009			\$ 13,729	\$ 6,000,000
	BEAVER - EUREKA SPRINGS 161KV CKT 1	6/1/2016	6/1/2016			\$ 8,657	\$ 41,000
	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2010	6/1/2010			\$ 4,305	\$ 2,500,000
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2010	6/1/2010			\$ 861	\$ 500,000
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	6/1/2014	6/1/2014			\$ 21,657	\$ 9,200,000
	CRESWELL - NEWKIRK 138KV CKT 1	6/1/2011	6/1/2011			\$ 2,563	\$ 4,740,000
	CROSTOWN - NEAST 161KV CKT 1	6/1/2015	6/1/2015			\$ 1,783	\$ 650,000
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 1,347	\$ 4,123,803
	KANSAS TAP - WEST SILOAM SPRINGS 161KV CKT 1	6/1/2016	6/1/2016			\$ 42,876	\$ 2,244,000
	SILOAM CITY - WEST SILOAM SPRINGS 161KV CKT 1	6/1/2016	6/1/2016			\$ 20,463	\$ 1,071,000
	SUB 271 - BAXTER SPRINGS WEST - SUB 404 - HOCKERVILLE 69KV CKT 1	12/1/2011	12/1/2011			\$ 69	\$ 10,000
					Total	\$ 118,310	\$ 31,079,803
1090528	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	6/1/2009	6/1/2009			\$ 13,729	\$ 6,000,000
	BEAVER - EUREKA SPRINGS 161KV CKT 1	6/1/2016	6/1/2016			\$ 8,657	\$ 41,000
	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2010	6/1/2010			\$ 4,305	\$ 2,500,000
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2010	6/1/2010			\$ 861	\$ 500,000
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	6/1/2014	6/1/2014			\$ 21,657	\$ 9,200,000
	CRESWELL - NEWKIRK 138KV CKT 1	6/1/2011	6/1/2011			\$ 2,563	\$ 4,740,000
	CROSTOWN - NEAST 161KV CKT 1	6/1/2015	6/1/2015			\$ 1,783	\$ 650,000
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 1,347	\$ 4,123,803
	KANSAS TAP - WEST SILOAM SPRINGS 161KV CKT 1	6/1/2016	6/1/2016			\$ 42,876	\$ 2,244,000
	SILOAM CITY - WEST SILOAM SPRINGS 161KV CKT 1	6/1/2016	6/1/2016			\$ 20,463	\$ 1,071,000
	SUB 271 - BAXTER SPRINGS WEST - SUB 404 - HOCKERVILLE 69KV CKT 1	12/1/2011	12/1/2011			\$ 69	\$ 10,000
					Total	\$ 118,310	\$ 31,079,803

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
1090401	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	GRAY TAP - PENSACOLA 69KV CKT 1	6/1/2008	6/1/2008		
	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	12/1/2006	12/1/2008	10/1/2008	No
1090528	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	GRAY TAP - PENSACOLA 69KV CKT 1	6/1/2008	6/1/2008		
	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	12/1/2006	12/1/2008	10/1/2008	No

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
1090401	COLLEGE - CRAIG 161KV CKT 1	6/1/2011	6/1/2011		
1090528	COLLEGE - CRAIG 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
1090401	Chamber Springs - Tontitown 345 kv	6/1/2007	6/1/2009	10/1/2008	No
	LACYGNE-PAOLA-WEST GARDER 345KV	6/1/2007	6/1/2008		Yes
1090528	Chamber Springs - Tontitown 345 kv	6/1/2007	6/1/2009	10/1/2008	No
	LACYGNE-PAOLA-WEST GARDER 345KV	6/1/2007	6/1/2008		Yes

**Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade**

Customer Study Number  
KMEA AG2-2006-081

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
KMEA	1090662	WR	WR	16	10/1/2006	10/1/2016	6/1/2011	6/1/2021	\$ 2,700,000	\$ -	\$ 2,404,931	\$ -
									\$ 2,700,000	\$ -	\$ 2,404,931	\$ 326,534,234

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090662	CIMARRON RIVER PLANT - NORTH CIMARRON 115KV CKT 1	6/1/2011	6/1/2011			\$ 930	\$ 150,000
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	4/1/2007	6/1/2010		Yes	\$ 307	\$ 1,515,113
	EEC - COWSKIN 138KV	6/1/2010	6/1/2010			\$ 154,192	\$ 10,000,000
	GREENSBURG - JUDSON LARGE 115KV CKT 1	10/1/2006	6/1/2007		Yes	\$ 8,144	\$ 153,114
	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 33,159	\$ 14,795,676
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014			\$ 491,095	\$ 7,300,000
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			\$ 437,276	\$ 6,500,000
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 17,165	\$ 4,123,803
	MEDICINE LODGE - SUN CITY 115KV CKT 1	6/1/2007	6/1/2007			\$ 6,127	\$ 100,000
	MIDWAY 69 KV STATCOM	6/1/2007	6/1/2008	12/1/2007	No	\$ 8,127	\$ 3,000,000
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		Yes	\$ 45,935	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 1,217	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 16,264	\$ 5,000,000
	Potter - Roosevelt 345KV	4/1/2007	6/1/2010		No	\$ 57,116	\$ 38,504,390
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 831	\$ 3,200,000
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$ 472,301	\$ 3,700,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 44,333	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 30,032	\$ 21,000,000
	Tex-Hitchland-Sherman Tap 115 kV ckt	4/1/2007	4/1/2010		No	\$ 3,591	\$ 2,401,645
	Tuco - Tolk 345KV	4/1/2007	6/1/2010		No	\$ 33,692	\$ 24,875,000
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 10,904	\$ 10,318,679
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 532,193	\$ 42,000,000
					Total	\$ 2,404,931	\$ 326,534,234

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
1090662	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No

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
1090662	Morewood Conversion	12/1/2011	6/1/2008		

Notes:

Potential limitations and upgrades for unmodeled transmission facilities operated at voltages less than 69 kV are indeterminate. The facilities not modeled in the SPP MDWG Seasonal models will be addressed in the Aggregate Facility Study.

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
KMEA AG2-2006-082

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
KMEA	1090674	GRDA	WR	1	5/1/2007	5/1/2026	6/1/2011	6/1/2030	\$ -	\$ -	\$ 361,469	\$ -
									\$ -	\$ -	\$ 361,469	\$ 291,701,252

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090674	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	6/1/2009	6/1/2009			\$ 11,236	\$ 6,000,000
	BEAVER - EUREKA SPRINGS 161KV CKT 1	6/1/2016	6/1/2016			\$ 7,515	\$ 41,000
	CIMARRON RIVER PLANT - NORTH CIMARRON 115KV CKT 1	6/1/2011	6/1/2011			\$ 18	\$ 150,000
	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2010	6/1/2010			\$ 3,623	\$ 2,500,000
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2010	6/1/2010			\$ 725	\$ 500,000
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	6/1/2014	6/1/2014			\$ 17,900	\$ 9,200,000
	CRESWELL - NEWKIRK 138KV CKT 1	6/1/2011	6/1/2011			\$ 3,057	\$ 4,740,000
	EEC - COWSKIN 138KV	6/1/2010	6/1/2010			\$ 13,046	\$ 10,000,000
	GREENSBURG - JUDSON LARGE 115KV CKT 1	10/1/2006	6/1/2007		Yes	\$ 506	\$ 153,114
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014			\$ 44,465	\$ 7,300,000
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			\$ 39,592	\$ 6,500,000
	KANSAS TAP - WEST SILOAM SPRINGS 161KV CKT 1	6/1/2016	6/1/2016			\$ 41,615	\$ 2,244,000
	MEDICINE LODGE - SUN CITY 115KV CKT 1	6/1/2007	6/1/2007			\$ 381	\$ 100,000
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		No	\$ 13,469	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 357	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 3,071	\$ 5,000,000
	ROSE HILL (ROSEHL1X) 345/138/113.8KV TRANSFORMER	6/1/2007	4/1/2008	10/1/2007	Yes	\$ 3,640	\$ 4,000,000
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$ 33,654	\$ 3,700,000
	SILOAM CITY - WEST SILOAM SPRINGS 161KV CKT 1	6/1/2016	6/1/2016			\$ 19,862	\$ 1,071,000
	Spearville - Mooreland 345 kV SLUNC	4/1/2007	6/1/2010		No	\$ 13,278	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 8,995	\$ 21,000,000
	SPS MUST RUN GENERATION #3	10/1/2007	10/1/2007			\$ -	\$ -
	SPS MUST RUN GENERATION #4	6/1/2007	6/1/2007			\$ -	\$ -
	SUB 271 - BAXTER SPRINGS WEST - SUB 404 - HOCKERVILLE 69KV CKT 1	12/1/2011	12/1/2011			\$ 57	\$ 10,000
	Tex-Hitchland-Sherman Tap 115 kv ckt	4/1/2007	4/1/2010		No	\$ 735	\$ 2,401,645
	Tuco - Tolk 345KV	4/1/2007	6/1/2010		No	\$ 2,384	\$ 24,875,000
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 761	\$ 10,318,679
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 77,527	\$ 42,000,000
						Total	\$ 361,469 \$ 291,701,252

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
1090674	ANZIO - FORT JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2007	12/1/2007		Yes
	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	GRAY TAP - PENSACOLA 69KV CKT 1	6/1/2008	6/1/2008		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No

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
1090674	Chamber Springs - Tontitown 345 kv	6/1/2007	6/1/2009	10/1/2008	No
	HEIZER TO KNOLL 230KV	12/1/2006	6/1/2007		No
	LACYGNE-PAOLA-WEST GARDER 345KV	6/1/2007	6/1/2008		Yes
	PHILLIPSBURG TO RHOADES 115KV	4/1/2007	6/1/2008	10/1/2007	No

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
KMEA AG2-2006-083

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
KMEA	1090676	GRDA	WR	1	5/1/2010	5/1/2026	6/1/2011	6/1/2027	\$ -	\$ -	\$ 361,528	\$ -
									\$ -	\$ -	\$ 361,528	\$ 291,701,252

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090676	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	6/1/2009	6/1/2009			\$ 11,236	\$ 6,000,000
	BEAVER - EUREKA SPRINGS 161KV CKT 1	6/1/2016	6/1/2016			\$ 7,515	\$ 41,000
	CIMARRON RIVER PLANT - NORTH CIMARRON 115KV CKT 1	6/1/2011	6/1/2011			\$ 18	\$ 150,000
	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2010	6/1/2010			\$ 3,623	\$ 2,500,000
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2010	6/1/2010			\$ 725	\$ 500,000
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	6/1/2014	6/1/2014			\$ 17,900	\$ 9,200,000
	CRESWELL - NEWKIRK 138KV CKT 1	6/1/2011	6/1/2011			\$ 3,057	\$ 4,740,000
	ECC - COWSKIN 138KV	6/1/2010	6/1/2010			\$ 13,046	\$ 10,000,000
	GREENSBURG - JUDSON LARGE 115KV CKT 1	10/1/2006	6/1/2007		No	\$ 529	\$ 153,114
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014			\$ 44,465	\$ 7,300,000
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			\$ 39,592	\$ 6,500,000
	KANSAS TAP - WEST SILOAM SPRINGS 161KV CKT 1	6/1/2016	6/1/2016			\$ 41,615	\$ 2,244,000
	MEDICINE LODGE - SUN CITY 115KV CKT 1	6/1/2007	6/1/2007			\$ 398	\$ 100,000
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		No	\$ 13,469	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 357	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 3,071	\$ 5,000,000
	ROSE HILL (ROSEHL1X) 345/138/113.8KV TRANSFORMER	6/1/2007	4/1/2008	10/1/2007	No	\$ 3,659	\$ 4,000,000
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$ 33,654	\$ 3,700,000
	SILOAM CITY - WEST SILOAM SPRINGS 161KV CKT 1	6/1/2016	6/1/2016			\$ 19,862	\$ 1,071,000
	Spearville - Mooreland 345 kV SLUNC	4/1/2007	6/1/2010		No	\$ 13,278	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 8,995	\$ 21,000,000
	SUB 271 - BAXTER SPRINGS WEST - SUB 404 - HOCKERVILLE 69KV CKT 1	12/1/2011	12/1/2011			\$ 57	\$ 10,000
	Tex-Hitchland-Sherman Tap 115 kV ckt	4/1/2007	4/1/2010		No	\$ 735	\$ 2,401,645
	Tuco - Tolk 345KV	4/1/2007	6/1/2010		No	\$ 2,384	\$ 24,875,000
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 761	\$ 10,318,679
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 77,527	\$ 42,000,000
					Total	\$ 361,528	\$ 291,701,252

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
1090676	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	GRAY TAP - PENSACOLA 69KV CKT 1	6/1/2008	6/1/2008		

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
1090676	Chamber Springs - Tontitown 345 kV	6/1/2007	6/1/2009	10/1/2008	No



Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
KMEA AG2-2006-084

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
KMEA	1090548	GRDA	KCPL	1	5/1/2010	5/1/2026	5/1/2010	5/1/2026	\$ 180,000	\$ -	\$ 118,310	\$ -
									\$ 180,000	\$ -	\$ 118,310	\$ 31,079,803

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090548	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	6/1/2009	6/1/2009			\$ 13,729	\$ 6,000,000
	BEAVER - EUREKA SPRINGS 161KV CKT 1	6/1/2016	6/1/2016			\$ 8,657	\$ 41,000
	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2010	6/1/2010			\$ 4,305	\$ 2,500,000
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2010	6/1/2010			\$ 861	\$ 500,000
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	6/1/2014	6/1/2014			\$ 21,657	\$ 9,200,000
	CRESWELL - NEWKIRK 138KV CKT 1	6/1/2011	6/1/2011			\$ 2,563	\$ 4,740,000
	CROSTOWN - NEAST 161KV CKT 1	6/1/2015	6/1/2015			\$ 1,783	\$ 650,000
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 1,347	\$ 4,123,803
	KANSAS TAP - WEST SILOAM SPRINGS 161KV CKT 1	6/1/2016	6/1/2016			\$ 42,876	\$ 2,244,000
	SILOAM CITY - WEST SILOAM SPRINGS 161KV CKT 1	6/1/2016	6/1/2016			\$ 20,463	\$ 1,071,000
	SUB 271 - BAXTER SPRINGS WEST - SUB 404 - HOCKERVILLE 69KV CKT 1	12/1/2011	12/1/2011			\$ 69	\$ 10,000
						\$ 118,310	\$ 31,079,803

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
1090548	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	GRAY TAP - PENSACOLA 69KV CKT 1	6/1/2008	6/1/2008		
	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	12/1/2006	12/1/2008	10/1/2008	No

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
1090548	COLLEGE - CRAIG 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
1090548	Chamber Springs - Tontitown 345 kV	6/1/2007	6/1/2009	10/1/2008	No

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
KPP AG2-2006-078

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
KPP	1090609	WR	WR	129	10/1/2006	10/1/2016	10/1/2008	10/1/2018	\$ 42,480,000	\$ -	\$32,690,224	\$ -
									\$ 42,480,000	\$ -	\$32,690,224	\$ 45,880,000

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090609	ARKANSAS CITY - PARIS 69KV CKT 1	6/1/2011	6/1/2011			\$ 600,000	\$ 600,000
	ARKANSAS CITY - SUMNER COUNTY NO. 5 SILVERDALE 69KV CKT 1	6/1/2011	6/1/2011			\$ 150,000	\$ 150,000
	CITY OF WELLINGTON - SUMNER COUNTY NO. 4 ROME 69KV CKT 1	6/1/2007	1/1/2008	10/1/2007	Yes	\$ 3,550,000	\$ 3,550,000
	CITY OF WINFIELD - RAINBOW 69KV CKT 1	6/1/2011	6/1/2011			\$ 1,560,000	\$ 1,560,000
	CITY OF WINFIELD - TIMBER JUNCTION 69KV CKT 1	6/1/2010	6/1/2010			\$ 4,960,000	\$ 4,960,000
	CLAY CENTER - GREENLEAF 115KV CKT 1	6/1/2011	6/1/2011			\$ 1,488,091	\$ 7,520,000
	CRESWELL - NEWKIRK 138KV CKT 1	6/1/2011	6/1/2011			\$ 1,637,798	\$ 4,740,000
	CRESWELL - OAK 69KV CKT 1	6/1/2011	6/1/2011			\$ 250,000	\$ 250,000
	CRESWELL - SUMNER COUNTY NO. 4 ROME 69KV CKT 1	6/1/2007	1/1/2008	10/1/2007	Yes	\$ 3,200,000	\$ 3,200,000
	CRESWELL (CRESWL1X) 138/69/13.2KV TRANSFORMER CKT 1	6/1/2011	6/1/2011			\$ 3,749,790	\$ 4,000,000
	CRESWELL (CRESWL2X) 138/69/13.2KV TRANSFORMER CKT 1	6/1/2007	4/1/2009	10/1/2008	No	\$ 2,875,754	\$ 4,000,000
	OAK - RAINBOW 69KV CKT 1	6/1/2011	6/1/2011			\$ 1,800,000	\$ 1,800,000
	PRAIRIELAND JCT - SUMNER COUNTY NO. 5 SILVERDALE 69KV CKT 1	6/1/2011	6/1/2011			\$ 50,000	\$ 50,000
	RICHLAND - ROSE HILL JUNCTION 69KV CKT 1	12/1/2006	3/1/2008		Yes	\$ 1,900,000	\$ 1,900,000
	RICHLAND - UDALL 69KV CKT 1	6/1/2011	6/1/2011			\$ 2,900,000	\$ 2,900,000
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER	6/1/2007	4/1/2008	10/1/2007	No	\$ 1,318,791	\$ 4,000,000
	TIMBER JUNCTION - UDALL 69KV CKT 1	6/1/2011	6/1/2011			\$ 700,000	\$ 700,000
Total						\$ 32,690,224	\$ 45,880,000

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
1090609	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	6/1/2010	6/1/2010		
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	6/1/2010	6/1/2010		

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
1090609	ROSE HILL JUNCTION - WEAVER 69KV CKT 1	10/1/2006	6/1/2007		Yes

Notes:

Potential limitations and upgrades for unmodeled transmission facilities operated at voltages less than 69 kV are indeterminate. The facilities not modeled in the SPP MDWG Seasonal models will be addressed in the Aggregate Facility Study.

**Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade**

**Customer Study Number**  
KPP AG2-2006-079

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
KPP	1090613	SECI	WPEK	25	10/1/2006	10/1/2016	6/1/2010	6/1/2020	\$ -	\$ -	\$ 1,353,697	\$ -
									\$ -	\$ -	\$ 1,353,697	\$ 267,717,228

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	
1090613	CIMARRON RIVER PLANT - NORTH CIMARRON 115KV CKT 1	6/1/2011	6/1/2011			\$ 5,698	\$ 150,000	
	CLAY CENTER - GREENLEAF 115KV CKT 1	6/1/2011	6/1/2011			\$ 203,167	\$ 7,520,000	
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	4/1/2007	6/1/2010		Yes	\$ 1,085	\$ 1,515,113	
	GREENSBURG - JUDSON LARGE 115KV CKT 1	10/1/2006	6/1/2007		Yes	\$ 9,229	\$ 153,114	
	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 76,038	\$ 14,795,676	
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 34,005	\$ 4,123,803	
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 18,606	\$ 3,000,000	
	MEDICINE LODGE - SUN CITY 115KV CKT 1	6/1/2007	6/1/2007			\$ 606	\$ 100,000	
	MIDWAY 69 KV STATCOM	6/1/2007	6/1/2008	12/1/2007	No	\$ 32,437	\$ 3,000,000	
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		Yes	\$ 121,420	\$ 94,396,814	
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 3,216	\$ 2,500,000	
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 62,476	\$ 5,000,000	
	NORTH CIMARRON 24MVAR CAPACITOR	6/1/2011	6/1/2011			\$ 62,201	\$ 1,400,000	
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$ 44,517	\$ 1,164,639	
	Potter - Roosevelt 345KV	4/1/2007	6/1/2010		No	\$ 207,249	\$ 38,504,390	
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 2,944	\$ 3,200,000	
	Speerville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 182,502	\$ 31,000,000	
	Speerville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 123,631	\$ 21,000,000	
	Tuco - Tolk 345kV	4/1/2007	6/1/2010		No	\$ 122,824	\$ 24,875,000	
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 39,846	\$ 10,318,679	
						<b>Total</b>	<b>\$ 1,353,697</b>	<b>\$ 267,717,228</b>

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
1090613	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	6/1/2010	6/1/2010		
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	6/1/2010	6/1/2010		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No

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
1090613	HEIZER TO KNOLL 230KV	12/1/2006	6/1/2007		No
	HOLCOMB - PLYMELL - PIONEER TAP 115KV CKT 1	6/1/2007	6/1/2008	10/1/2007	Yes
	Morewood Conversion	12/1/2011	6/1/2008		
	PHILLIPSBURG TO RHOADES 115KV	4/1/2007	6/1/2008	10/1/2007	No

Notes:

Potential limitations and upgrades for unmodeled transmission facilities operated at voltages less than 69 kV are indeterminate. The facilities not modeled in the SPP MDWG Seasonal models will be addressed in the Aggregate Facility Study.

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
KPP AG2-2006-125

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
KPP	1090612	WPEK	WPEK	13	10/1/2006	10/1/2016	6/1/2011	6/1/2021	\$ 1,260,000	\$ -	\$ 930,172	\$ -
									\$ 1,260,000	\$ -	\$ 930,172	\$ 78,508,318

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	
1090612	CIMARRON RIVER PLANT - NORTH CIMARRON 115KV CKT 1	6/1/2011	6/1/2011			\$ 2,451	\$ 150,000	
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$ 55,792	\$ 1,164,639	
	Tuco - Tolk 345kV	4/1/2007	6/1/2010		No	\$ 54,979	\$ 24,875,000	
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 17,641	\$ 10,318,679	
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 799,309	\$ 42,000,000	
						Total	\$ 930,172	\$ 78,508,318

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
1090612	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		

Notes:

Potential limitations and upgrades for unmodeled transmission facilities operated at voltages less than 69 kV are indeterminate. The facilities not modeled in the SPP MDWG Seasonal models will be addressed in the Aggregate Facility Study.

Customer Study Number  
MECB AG2-2006-140

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
MECB	1103355	MEC	AECI	100	1/1/2007	1/1/2008	6/1/2010	6/1/2011	\$ -	\$ 1,080,000	\$ 1,268,444	\$ -
MECB	1103357	MEC	AECI	50	1/1/2007	1/1/2008	6/1/2010	6/1/2011	\$ -	\$ 540,000	\$ 634,223	\$ -
									\$ -	\$ 1,620,000	\$ 1,902,667	\$ 494,211,344

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	
1103355	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	4/1/2007	6/1/2010		Yes	\$ 932	\$ 1,515,113	
	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 71,655	\$ 14,795,676	
	MEC to SPP Contract Path Capacity	1/1/2007	1/1/2009		Yes	\$ -	\$ -	
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		Yes	\$ 273,899	\$ 94,396,814	
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 7,254	\$ 2,500,000	
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 78,062	\$ 5,000,000	
	Potter - Roosevelt 345KV	4/1/2007	6/1/2010		No	\$ 166,075	\$ 38,504,390	
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 2,472	\$ 3,200,000	
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 322,365	\$ 31,000,000	
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 218,376	\$ 21,000,000	
	Tuco - Tolk 345kV	4/1/2007	6/1/2010		No	\$ 96,373	\$ 24,875,000	
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 30,981	\$ 10,318,679	
						Total	\$ 1,268,444	\$ 247,105,672
1103357	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	4/1/2007	6/1/2010		Yes	\$ 466	\$ 1,515,113	
	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 35,828	\$ 14,795,676	
	MEC to SPP Contract Path Capacity	1/1/2007	1/1/2009		Yes	\$ -	\$ -	
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		Yes	\$ 136,949	\$ 94,396,814	
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 3,627	\$ 2,500,000	
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 39,031	\$ 5,000,000	
	Potter - Roosevelt 345KV	4/1/2007	6/1/2010		No	\$ 83,038	\$ 38,504,390	
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 1,236	\$ 3,200,000	
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 161,182	\$ 31,000,000	
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 109,188	\$ 21,000,000	
	Tuco - Tolk 345kV	4/1/2007	6/1/2010		No	\$ 48,187	\$ 24,875,000	
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 15,491	\$ 10,318,679	
						Total	\$ 634,223	\$ 247,105,672

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
 MIDW AG2-2006-047

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
MIDW	1090244	WR	WR	2	6/1/2008	6/1/2013	6/1/2010	6/1/2015	\$ -	\$ -	\$ 141,224	\$ -
									\$ -	\$ -	\$ 141,224	\$ 70,823,803

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090244	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 5,267	\$ 4,123,803
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 6,188	\$ 5,000,000
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$ 15,159	\$ 3,700,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 23,849	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 16,156	\$ 21,000,000
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2008	6/1/2008			\$ 74,605	\$ 6,000,000
						\$ 141,224	\$ 70,823,803

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
1090244	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	STRANGER - THORNTON 115KV	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
1090244	Morewood Conversion	12/1/2011	6/1/2008		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
 MIDW AG2-2006-050

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
MIDW	1090329	WR	WR	36	6/1/2010	6/1/2035	6/1/2011	6/1/2036	\$ -	\$ -	\$ 1,816,596	\$ -
MIDW	1090331	WR	WR	9	6/1/2010	6/1/2035	6/1/2011	6/1/2036	\$ -	\$ -	\$ 436,631	\$ -
MIDW	1090332	WR	WR	49	6/1/2010	6/1/2035	6/1/2011	6/1/2036	\$ -	\$ -	\$ 2,472,605	\$ -
MIDW	1090334	WR	WR	11	6/1/2010	6/1/2035	6/1/2011	6/1/2036	\$ -	\$ -	\$ 533,644	\$ -
									\$ -	\$ -	\$ 5,259,476	\$ 229,750,000

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	
1090329	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 98,694	\$ 3,000,000	
	Tuco - Tolk 345kV	4/1/2007	6/1/2010		No	\$ 70,101	\$ 24,875,000	
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 1,647,801	\$ 42,000,000	
						Total	\$ 1,816,596	\$ 69,875,000
1090331	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 24,674	\$ 3,000,000	
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 411,957	\$ 42,000,000	
							Total	\$ 436,631
1090332	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 134,334	\$ 3,000,000	
	Tuco - Tolk 345kV	4/1/2007	6/1/2010		No	\$ 95,425	\$ 24,875,000	
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 2,242,846	\$ 42,000,000	
						Total	\$ 2,472,605	\$ 69,875,000
1090334	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 30,156	\$ 3,000,000	
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 503,488	\$ 42,000,000	
							Total	\$ 533,644

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
1090329	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	6/1/2010	6/1/2010		
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	6/1/2010	6/1/2010		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	KELLY - KING HILL N.M. COOP 115KV CKT 1	6/1/2010	6/1/2010		
1090331	STULL SWITCHING STATION - TECUMSEH HILL 115KV CKT 1	10/1/2007	4/1/2008	12/1/2007	No
	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	6/1/2010	6/1/2010		
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	6/1/2010	6/1/2010		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
1090332	KELLY - KING HILL N.M. COOP 115KV CKT 1	6/1/2010	6/1/2010		
	STULL SWITCHING STATION - TECUMSEH HILL 115KV CKT 1	10/1/2007	4/1/2008	12/1/2007	No
	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	6/1/2010	6/1/2010		
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	6/1/2010	6/1/2010		
1090334	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	KELLY - KING HILL N.M. COOP 115KV CKT 1	6/1/2010	6/1/2010		
	STULL SWITCHING STATION - TECUMSEH HILL 115KV CKT 1	10/1/2007	4/1/2008	12/1/2007	No
	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	6/1/2010	6/1/2010		

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
1090329	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		
1090331	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		
1090332	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		
1090334	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
MIDW AG2-2006-051

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
MIDW	1090325	WR	WR	24	6/1/2008	6/1/2038	6/1/2011	6/1/2041	\$ -	\$ -	\$ 1,164,329	\$ -
MIDW	1090327	WR	WR	6	6/1/2008	6/1/2038	6/1/2011	6/1/2041	\$ -	\$ -	\$ 274,621	\$ -
									\$ -	\$ -	\$ 1,438,950	\$ 87,000,000

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090325	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 65,795	\$ 3,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 1,098,534	\$ 42,000,000
						Total \$ 1,164,329	\$ 45,000,000
1090327	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 274,621	\$ 42,000,000
						Total \$ 274,621	\$ 42,000,000

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
1090325	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	6/1/2010	6/1/2010		
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	6/1/2010	6/1/2010		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	KELLY - KING HILL N.M. COOP 115KV CKT 1	6/1/2010	6/1/2010		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	STULL SWITCHING STATION - TECUMSEH HILL 115KV CKT 1	10/1/2007	4/1/2008	12/1/2007	No
1090327	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	6/1/2010	6/1/2010		
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	6/1/2010	6/1/2010		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	KELLY - KING HILL N.M. COOP 115KV CKT 1	6/1/2010	6/1/2010		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	STULL SWITCHING STATION - TECUMSEH HILL 115KV CKT 1	10/1/2007	4/1/2008	12/1/2007	No

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
1090325	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		
1090327	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		

Customer Study Number  
MIDW AG2-2006-052

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
MIDW	1090245	WR	WR	6	6/1/2008	6/1/2013	6/1/2010	6/1/2015	\$ -	\$ -	\$ 219,387	\$ -
									\$ -	\$ -	\$ 219,387	\$ 114,153,180

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090245	GREENSBURG - JUDSON LARGE 115KV CKT 1	10/1/2006	6/1/2007		No	\$ 615	\$ 153,114
	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 13,741	\$ 14,795,676
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 17,317	\$ 5,000,000
	Potter - Roosevelt 345KV	4/1/2007	6/1/2010		No	\$ 32,648	\$ 38,504,390
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$ 43,853	\$ 3,700,000
	Spearsville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 66,300	\$ 31,000,000
	Spearsville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 44,913	\$ 21,000,000
						Total \$ 219,387	\$ 114,153,180

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
1090245	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No

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
1090245	Morewood Conversion	12/1/2011	6/1/2008		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
MIDW AG2-2006-058

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
MIDW	1090377	EES	WR	40	5/1/2010	5/1/2040	6/1/2011	6/1/2041	\$ -	\$ -	\$ 3,486,532	\$ -
MIDW	1090378	EES	WR	10	5/1/2010	5/1/2040	6/1/2011	6/1/2041	\$ -	\$ -	\$ 836,701	\$ -
MIDW	1090380	EES	WR	40	5/1/2010	5/1/2040	6/1/2011	6/1/2041	\$ -	\$ -	\$ 3,486,532	\$ -
MIDW	1090381	EES	WR	10	5/1/2010	5/1/2040	6/1/2011	6/1/2041	\$ -	\$ -	\$ 836,701	\$ -
MIDW	1090382	EES	WR	20	5/1/2010	5/1/2040	6/1/2011	6/1/2041	\$ -	\$ -	\$ 1,726,277	\$ -
MIDW	1090383	EES	WR	5	5/1/2010	5/1/2040	6/1/2011	6/1/2041	\$ -	\$ -	\$ 404,768	\$ -
MIDW	1090385	EES	WR	7	5/1/2010	5/1/2040	6/1/2011	6/1/2041	\$ -	\$ -	\$ 585,358	\$ -
MIDW	1090386	EES	WR	3	5/1/2010	5/1/2040	6/1/2010	6/1/2040	\$ -	\$ -	\$ 10,320	\$ -
									\$ -	\$ -	\$ 7,049,956	\$ 410,160,839

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090377	CRESWELL - NEWKIRK 138KV CKT 1	6/1/2011	6/1/2011			\$ 61,966	\$ 4,740,000
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1	6/1/2007	6/1/2009	10/1/2007	No	\$ 375,837	\$ 9,000,000
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2011	6/1/2011			\$ 11,847	\$ 325,000
	GREENSBURG - JUDSON LARGE 115KV CKT 1	10/1/2006	6/1/2007		No	\$ 1,930	\$ 153,114
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 63,750	\$ 4,123,803
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 106,684	\$ 3,000,000
	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1	6/1/2010	6/1/2010			\$ 229,678	\$ 5,500,000
	Tuco - Tolk 345KV	4/1/2007	6/1/2010		No	\$ 105,805	\$ 24,875,000
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 33,980	\$ 10,318,679
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 2,495,055	\$ 42,000,000
					Total	\$ 3,486,532	\$ 104,035,596
1090378	CRESWELL - NEWKIRK 138KV CKT 1	6/1/2011	6/1/2011			\$ 15,492	\$ 4,740,000
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1	6/1/2007	6/1/2009	10/1/2007	No	\$ 93,959	\$ 9,000,000
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2011	6/1/2011			\$ 2,962	\$ 325,000
	GREENSBURG - JUDSON LARGE 115KV CKT 1	10/1/2006	6/1/2007		No	\$ 483	\$ 153,114
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 15,936	\$ 4,123,803
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 26,672	\$ 3,000,000
	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1	6/1/2010	6/1/2010			\$ 57,420	\$ 5,500,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 623,777	\$ 42,000,000
					Total	\$ 836,701	\$ 68,841,917
1090380	CRESWELL - NEWKIRK 138KV CKT 1	6/1/2011	6/1/2011			\$ 61,966	\$ 4,740,000
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1	6/1/2007	6/1/2009	10/1/2007	No	\$ 375,837	\$ 9,000,000
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2011	6/1/2011			\$ 11,847	\$ 325,000
	GREENSBURG - JUDSON LARGE 115KV CKT 1	10/1/2006	6/1/2007		No	\$ 1,930	\$ 153,114
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 63,750	\$ 4,123,803
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 106,684	\$ 3,000,000
	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1	6/1/2010	6/1/2010			\$ 229,678	\$ 5,500,000
	Tuco - Tolk 345KV	4/1/2007	6/1/2010		No	\$ 105,805	\$ 24,875,000
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 33,980	\$ 10,318,679
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 2,495,055	\$ 42,000,000
					Total	\$ 3,486,532	\$ 104,035,596
1090381	CRESWELL - NEWKIRK 138KV CKT 1	6/1/2011	6/1/2011			\$ 15,492	\$ 4,740,000
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1	6/1/2007	6/1/2009	10/1/2007	No	\$ 93,959	\$ 9,000,000
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2011	6/1/2011			\$ 2,962	\$ 325,000
	GREENSBURG - JUDSON LARGE 115KV CKT 1	10/1/2006	6/1/2007		No	\$ 483	\$ 153,114
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 15,936	\$ 4,123,803
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 26,672	\$ 3,000,000
	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1	6/1/2010	6/1/2010			\$ 57,420	\$ 5,500,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 623,777	\$ 42,000,000
					Total	\$ 836,701	\$ 68,841,917
1090382	CRESWELL - NEWKIRK 138KV CKT 1	6/1/2011	6/1/2011			\$ 30,983	\$ 4,740,000
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1	6/1/2007	6/1/2009	10/1/2007	No	\$ 187,919	\$ 9,000,000
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2011	6/1/2011			\$ 5,924	\$ 325,000
	GREENSBURG - JUDSON LARGE 115KV CKT 1	10/1/2006	6/1/2007		No	\$ 965	\$ 153,114
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 31,875	\$ 4,123,803
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 53,342	\$ 3,000,000
	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1	6/1/2010	6/1/2010			\$ 114,839	\$ 5,500,000
	Tuco - Tolk 345KV	4/1/2007	6/1/2010		No	\$ 52,903	\$ 24,875,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 1,247,527	\$ 42,000,000
					Total	\$ 1,726,277	\$ 93,716,917
1090383	CRESWELL - NEWKIRK 138KV CKT 1	6/1/2011	6/1/2011			\$ 7,741	\$ 4,740,000
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1	6/1/2007	6/1/2009	10/1/2007	No	\$ 46,980	\$ 9,000,000
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2011	6/1/2011			\$ 1,481	\$ 325,000
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 7,968	\$ 4,123,803
	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1	6/1/2010	6/1/2010			\$ 28,710	\$ 5,500,000



**Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade**

	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 311,888	\$ 42,000,000
					Total	\$ 404,768	\$ 65,688,803
1090385	CRESWELL - NEWKIRK 138KV CKT 1	6/1/2011	6/1/2011			\$ 10,842	\$ 4,740,000
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1	6/1/2007	6/1/2009	10/1/2007	No	\$ 65,781	\$ 9,000,000
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2011	6/1/2011			\$ 2,073	\$ 325,000
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 11,155	\$ 4,123,803
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 18,669	\$ 3,000,000
	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1	6/1/2010	6/1/2010			\$ 40,200	\$ 5,500,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 436,638	\$ 42,000,000
					Total	\$ 585,358	\$ 68,688,803
1090386	CRESWELL - NEWKIRK 138KV CKT 1	6/1/2011	6/1/2011			\$ 4,650	\$ 4,740,000
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2011	6/1/2011			\$ 889	\$ 325,000
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 4,781	\$ 4,123,803
					Total	\$ 10,320	\$ 9,188,803

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
1090377	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
1090378	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
1090380	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
1090381	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
1090382	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
1090383	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
1090385	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
1090386	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
MIDW AG2-2006-059

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
MIDW	1090388	EES	WR	7	5/1/2010	5/1/2040	6/1/2010	6/1/2040	\$ -	\$ -	\$ 310,055	\$ -
MIDW	1090389	EES	WR	7	5/1/2010	5/1/2040	6/1/2010	6/1/2040	\$ -	\$ -	\$ 310,055	\$ -
MIDW	1090390	EES	WR	3	5/1/2010	5/1/2040	6/1/2010	6/1/2040	\$ -	\$ -	\$ 23,808	\$ -
MIDW	1090391	EES	WR	1	5/1/2010	5/1/2040	5/1/2010	5/1/2040	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ 643,918	\$ 107,966,409

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090388	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	6/1/2009	6/1/2009			\$ 33,149	\$ 6,000,000
	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2010	6/1/2010			\$ 12,151	\$ 2,500,000
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2010	6/1/2010			\$ 2,430	\$ 500,000
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	6/1/2014	6/1/2014			\$ 50,297	\$ 9,200,000
	CRESWELL - NEWKIRK 138KV CKT 1	6/1/2011	6/1/2011			\$ 14,106	\$ 4,740,000
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1	6/1/2007	6/1/2009	10/1/2007	No	\$ 59,193	\$ 9,000,000
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2011	6/1/2011			\$ 2,008	\$ 325,000
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 24,856	\$ 4,123,803
	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1	6/1/2010	6/1/2010			\$ 36,174	\$ 5,500,000
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2008	6/1/2008			\$ 75,691	\$ 6,000,000
					Total	\$ 310,055	\$ 47,888,803
1090389	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	6/1/2009	6/1/2009			\$ 33,149	\$ 6,000,000
	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2010	6/1/2010			\$ 12,151	\$ 2,500,000
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2010	6/1/2010			\$ 2,430	\$ 500,000
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	6/1/2014	6/1/2014			\$ 50,297	\$ 9,200,000
	CRESWELL - NEWKIRK 138KV CKT 1	6/1/2011	6/1/2011			\$ 14,106	\$ 4,740,000
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1	6/1/2007	6/1/2009	10/1/2007	No	\$ 59,193	\$ 9,000,000
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2011	6/1/2011			\$ 2,008	\$ 325,000
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 24,856	\$ 4,123,803
	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1	6/1/2010	6/1/2010			\$ 36,174	\$ 5,500,000
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2008	6/1/2008			\$ 75,691	\$ 6,000,000
					Total	\$ 310,055	\$ 47,888,803
1090390	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2010	6/1/2010			\$ 5,210	\$ 2,500,000
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2010	6/1/2010			\$ 1,042	\$ 500,000
	CRESWELL - NEWKIRK 138KV CKT 1	6/1/2011	6/1/2011			\$ 6,044	\$ 4,740,000
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2011	6/1/2011			\$ 860	\$ 325,000
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 10,652	\$ 4,123,803
					Total	\$ 23,808	\$ 12,188,803

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
1090388	STRANGER - THORNTON 115KV	6/1/2009	6/1/2009		
1090389	STRANGER - THORNTON 115KV	6/1/2009	6/1/2009		
1090390	STRANGER - THORNTON 115KV	6/1/2009	6/1/2009		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
MIDW AG2-2006-060

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
MIDW	1090392	EES	WR	1	5/1/2010	5/1/2040	5/1/2010	5/1/2040	\$ -	\$ -	\$ -	\$ -
MIDW	1090393	EES	WR	1	5/1/2010	5/1/2040	5/1/2010	5/1/2040	\$ -	\$ -	\$ -	\$ -
MIDW	1090394	EES	WR	1	5/1/2010	5/1/2040	5/1/2010	5/1/2040	\$ -	\$ -	\$ -	\$ -
MIDW	1090395	EES	WR	1	5/1/2010	5/1/2040	5/1/2010	5/1/2040	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090392	None					\$ -	\$ -
						Total	\$ -
1090393	None					\$ -	\$ -
						Total	\$ -
1090394	None					\$ -	\$ -
						Total	\$ -
1090395	None					\$ -	\$ -
						Total	\$ -

Customer Study Number  
MIDW AG2-2006-061

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
MIDW	1090396	EES	WR	2	5/1/2010	5/1/2040	6/1/2010	6/1/2040	\$ -	\$ -	\$ -	\$ -
MIDW	1090398	EES	WR	2	5/1/2010	5/1/2040	6/1/2010	6/1/2040	\$ -	\$ -	\$ -	\$ -
MIDW	1090399	EES	WR	1	5/1/2010	5/1/2040	5/1/2010	5/1/2040	\$ -	\$ -	\$ -	\$ -
MIDW	1090400	EES	WR	1	5/1/2010	5/1/2040	5/1/2010	5/1/2040	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090396	None					\$ -	\$ -
						Total	\$ -
1090398	None					\$ -	\$ -
						Total	\$ -
1090399	None					\$ -	\$ -
						Total	\$ -
1090400	None					\$ -	\$ -
						Total	\$ -

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
MIDW AG2-2006-062

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
MIDW	1090408	AMRN	WR	40	10/1/2010	10/1/2030	6/1/2011	6/1/2031	\$ -	\$ -	\$ 2,726,690	\$ -
MIDW	1090411	AMRN	WR	10	10/1/2010	10/1/2030	6/1/2011	6/1/2031	\$ -	\$ -	\$ 657,621	\$ -
MIDW	1090415	AMRN	WR	20	10/1/2010	10/1/2030	6/1/2011	6/1/2031	\$ -	\$ -	\$ 1,363,345	\$ -
									\$ -	\$ -	\$ 4,747,656	\$ 198,096,409

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	
1090408	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2011	6/1/2011			\$ 6,326	\$ 325,000	
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 74,176	\$ 4,123,803	
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 106,573	\$ 3,000,000	
	Tuco - Tolk 345KV	4/1/2007	6/1/2010		No	\$ 96,194	\$ 24,875,000	
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 2,443,421	\$ 42,000,000	
						Total	\$ 2,726,690	\$ 74,323,803
1090411	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2011	6/1/2011			\$ 1,581	\$ 325,000	
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 18,542	\$ 4,123,803	
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 26,643	\$ 3,000,000	
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 610,855	\$ 42,000,000	
						Total	\$ 657,621	\$ 49,448,803
1090415	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2011	6/1/2011			\$ 3,163	\$ 325,000	
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 37,088	\$ 4,123,803	
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 53,286	\$ 3,000,000	
	Tuco - Tolk 345KV	4/1/2007	6/1/2010		No	\$ 48,097	\$ 24,875,000	
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 1,221,711	\$ 42,000,000	
						Total	\$ 1,363,345	\$ 74,323,803

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
1090408	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
1090411	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
1090415	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		

Customer Study Number  
MIDW AG2-2006-069

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
MIDW	1090417	AMRN	WR	5	10/1/2010	10/1/2030	6/1/2011	6/1/2031	\$ -	\$ -	\$ 315,477	\$ -
MIDW	1090418	AMRN	WR	7	10/1/2010	10/1/2030	6/1/2011	6/1/2031	\$ -	\$ -	\$ 460,352	\$ -
MIDW	1090419	AMRN	WR	3	10/1/2010	10/1/2030	10/1/2010	10/1/2030	\$ -	\$ -	\$ 5,564	\$ -
									\$ -	\$ -	\$ 781,393	\$ 100,021,409

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	
1090417	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2011	6/1/2011			\$ 791	\$ 325,000	
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 9,271	\$ 4,123,803	
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 305,415	\$ 42,000,000	
						Total	\$ 315,477	\$ 46,448,803
1090418	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2011	6/1/2011			\$ 1,107	\$ 325,000	
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 12,982	\$ 4,123,803	
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 18,651	\$ 3,000,000	
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 427,612	\$ 42,000,000	
						Total	\$ 460,352	\$ 49,448,803
1090419	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 5,564	\$ 4,123,803	
						Total	\$ 5,564	\$ 4,123,803

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
1090417	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
1090418	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
1090419	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
MIDW AG2-2006-070

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
MIDW	1090432	AMRN	WR	7	10/1/2010	10/1/2030	10/1/2010	10/1/2030	\$ -	\$ -	\$ 126,110	\$ -
MIDW	1090434	AMRN	WR	3	10/1/2010	10/1/2030	10/1/2010	10/1/2030	\$ -	\$ -	\$ 11,435	\$ -
MIDW	1090435	AMRN	WR	1	10/1/2010	10/1/2030	10/1/2010	10/1/2030	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ 137,545	\$ 19,962,606

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	
1090432	CRESWELL - NEWKIRK 138KV CKT 1	6/1/2011	6/1/2011			\$ 10,980	\$ 4,740,000	
	CROSSTOWN - NEAST 161KV CKT 1	6/1/2015	6/1/2015			\$ 10,188	\$ 650,000	
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2011	6/1/2011			\$ 1,042	\$ 325,000	
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 26,682	\$ 4,123,803	
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2008	6/1/2008			\$ 77,218	\$ 6,000,000	
						Total	\$ 126,110	\$ 15,838,803
1090434	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 11,435	\$ 4,123,803	
						Total	\$ 11,435	\$ 4,123,803

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
1090432	STRANGER - THORNTON 115KV	6/1/2009	6/1/2009		
1090434	STRANGER - THORNTON 115KV	6/1/2009	6/1/2009		

Customer Study Number  
MIDW AG2-2006-075

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
MIDW	1090541	AMRN	WR	1	10/1/2010	10/1/2030	10/1/2010	10/1/2030	\$ -	\$ -	\$ -	\$ -
MIDW	1090543	AMRN	WR	1	10/1/2010	10/1/2030	10/1/2010	10/1/2030	\$ -	\$ -	\$ -	\$ -
MIDW	1090544	AMRN	WR	1	10/1/2010	10/1/2030	10/1/2010	10/1/2030	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090541	None					\$ -	\$ -
						Total	\$ -
1090543	None					\$ -	\$ -
						Total	\$ -
1090544	None					\$ -	\$ -
						Total	\$ -

Customer Study Number  
MIDW AG2-2006-076

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
MIDW	1090558	AMRN	WR	2	10/1/2010	10/1/2030	10/1/2010	10/1/2030	\$ -	\$ -	\$ -	\$ -
MIDW	1090560	AMRN	WR	1	10/1/2010	10/1/2030	10/1/2010	10/1/2030	\$ -	\$ -	\$ -	\$ -
MIDW	1090561	AMRN	WR	1	10/1/2010	10/1/2030	10/1/2010	10/1/2030	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090558	None					\$ -	\$ -
						Total	\$ -
1090560	None					\$ -	\$ -
						Total	\$ -
1090561	None					\$ -	\$ -
						Total	\$ -

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
MIDW AG2-2006-080

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
MIDW	1090622	AMRN	WR	5	5/1/2010	5/1/2030	6/1/2011	6/1/2031	\$ -	\$ -	\$ 313,759	\$ -
MIDW	1090623	AMRN	WR	7	5/1/2010	5/1/2030	6/1/2011	6/1/2031	\$ -	\$ -	\$ 457,851	\$ -
MIDW	1090625	AMRN	WR	3	5/1/2010	5/1/2030	6/1/2010	6/1/2030	\$ -	\$ -	\$ 6,260	\$ -
MIDW	1090652	AMRN	WR	40	5/1/2010	5/1/2030	6/1/2011	6/1/2031	\$ -	\$ -	\$ 2,711,080	\$ -
MIDW	1090655	AMRN	WR	10	5/1/2010	5/1/2030	6/1/2011	6/1/2031	\$ -	\$ -	\$ 654,567	\$ -
MIDW	1090661	AMRN	WR	20	5/1/2010	5/1/2030	6/1/2011	6/1/2031	\$ -	\$ -	\$ 1,355,541	\$ -
									\$ -	\$ -	\$ 5,499,058	\$ 298,577,160

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090622	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2011	6/1/2011			\$ 855	\$ 325,000
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 10,429	\$ 4,123,803
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 302,475	\$ 42,000,000
						Total	\$ 313,759 \$ 46,448,803
1090623	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2011	6/1/2011			\$ 1,197	\$ 325,000
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 14,602	\$ 4,123,803
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 18,593	\$ 3,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 423,459	\$ 42,000,000
						Total	\$ 457,851 \$ 49,448,803
1090625	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 6,260	\$ 4,123,803
						Total	\$ 6,260 \$ 4,123,803
1090652	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2011	6/1/2011			\$ 6,840	\$ 325,000
	GREENSBURG - JUDSON LARGE 115KV CKT 1	10/1/2006	6/1/2007		No	\$ 1,953	\$ 153,114
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 83,440	\$ 4,123,803
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 106,240	\$ 3,000,000
	Tuco - Tolk 345KV	4/1/2007	6/1/2010		No	\$ 92,810	\$ 24,875,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 2,419,797	\$ 42,000,000
						Total	\$ 2,711,080 \$ 74,476,917
1090655	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2011	6/1/2011			\$ 1,710	\$ 325,000
	GREENSBURG - JUDSON LARGE 115KV CKT 1	10/1/2006	6/1/2007		No	\$ 489	\$ 153,114
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 20,858	\$ 4,123,803
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 26,561	\$ 3,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 604,949	\$ 42,000,000
						Total	\$ 654,567 \$ 49,601,917
1090661	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2011	6/1/2011			\$ 3,420	\$ 325,000
	GREENSBURG - JUDSON LARGE 115KV CKT 1	10/1/2006	6/1/2007		No	\$ 977	\$ 153,114
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 41,720	\$ 4,123,803
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 53,120	\$ 3,000,000
	Tuco - Tolk 345KV	4/1/2007	6/1/2010		No	\$ 46,405	\$ 24,875,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 1,209,899	\$ 42,000,000
						Total	\$ 1,355,541 \$ 74,476,917

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
1090622	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
1090623	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
1090625	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
1090652	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
1090655	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
1090661	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		

**Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade**

**Customer Study Number**  
 MIDW AG2-2006-085

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
MIDW	1090667	AMRN	WR	7	5/1/2010	5/1/2030	6/1/2010	6/1/2030	\$ -	\$ -	\$ 128,904	\$ -
MIDW	1090669	AMRN	WR	3	5/1/2010	5/1/2030	6/1/2010	6/1/2030	\$ -	\$ -	\$ 12,131	\$ -
MIDW	1090670	AMRN	WR	1	5/1/2010	5/1/2030	5/1/2010	5/1/2030	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ 141,035	\$ 19,962,606

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090667	CRESWELL - NEWKIRK 138KV CKT 1	6/1/2011	6/1/2011			\$ 10,954	\$ 4,740,000
	CROSSTOWN - NEAST 161KV CKT 1	6/1/2015	6/1/2015			\$ 10,071	\$ 650,000
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2011	6/1/2011			\$ 1,131	\$ 325,000
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 28,303	\$ 4,123,803
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2008	6/1/2008			\$ 78,445	\$ 6,000,000
						Total	\$ 128,904 \$ 15,838,803
1090669	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 12,131	\$ 4,123,803
						Total	\$ 12,131 \$ 4,123,803

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
1090667	STRANGER - THORNTON 115KV	6/1/2009	6/1/2009		
1090669	STRANGER - THORNTON 115KV	6/1/2009	6/1/2009		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
MIDW AG2-2006-096

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost		
MIDW	1091026	WR	WR	3	6/1/2008	6/1/2038	6/1/2010	6/1/2040	\$ -	\$ -	\$ 94,611	\$ -		
MIDW	1091027	WR	WR	7	6/1/2008	6/1/2038	6/1/2010	6/1/2040	\$ -	\$ -	\$ 294,851	\$ -		
MIDW	1091028	WR	WR	8	6/1/2008	6/1/2038	6/1/2011	6/1/2041	\$ -	\$ -	\$ 147,905	\$ -		
MIDW	1091030	WR	WR	17	6/1/2008	6/1/2038	6/1/2010	6/1/2040	\$ -	\$ -	\$ 797,004	\$ -		
MIDW	1091031	WR	WR	20	6/1/2008	6/1/2038	6/1/2010	6/1/2040	\$ -	\$ -	\$ 937,683	\$ -		
MIDW	1091032	WR	WR	10	6/1/2008	6/1/2038	6/1/2010	6/1/2040	\$ -	\$ -	\$ 458,829	\$ -		
MIDW	1091066	WR	WR	17	6/1/2008	6/1/2013	6/1/2011	6/1/2016	\$ -	\$ -	\$ 1,023,642	\$ -		
											\$ -	\$ -	\$ 3,659,914	\$ 1,132,929,658

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1091026	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 6,623	\$ 5,000,000
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$ 4,926	\$ 1,164,639
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$ 12,244	\$ 3,700,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 27,992	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 18,963	\$ 21,000,000
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2008	6/1/2008			\$ 23,863	\$ 6,000,000
					Total	\$ 94,611	\$ 67,864,639
1091027	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 11,523	\$ 4,123,803
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		Yes	\$ 60,961	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 1,614	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 15,453	\$ 5,000,000
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$ 11,492	\$ 1,164,639
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$ 28,572	\$ 3,700,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 65,308	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 44,241	\$ 21,000,000
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2008	6/1/2008			\$ 55,687	\$ 6,000,000
					Total	\$ 294,851	\$ 168,885,256
1091028	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 6,803	\$ 3,000,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 9,557	\$ 5,000,000
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$ 3,835	\$ 1,164,639
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 41,103	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 27,844	\$ 21,000,000
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2008	6/1/2008			\$ 58,763	\$ 6,000,000
					Total	\$ 147,905	\$ 67,164,639
1091030	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 16,920	\$ 14,795,676
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 27,982	\$ 4,123,803
	MIDWAY 69 KV STATCOM	6/1/2007	6/1/2008	12/1/2007	No	\$ 17,104	\$ 3,000,000
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		Yes	\$ 148,006	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 3,920	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 37,529	\$ 5,000,000
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$ 27,910	\$ 1,164,639
	Potter - Roosevelt 345KV	4/1/2007	6/1/2010		No	\$ 46,964	\$ 38,504,390
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$ 69,396	\$ 3,700,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 158,598	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 107,437	\$ 21,000,000
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2008	6/1/2008			\$ 135,238	\$ 6,000,000
					Total	\$ 797,004	\$ 225,185,322
1091031	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 19,907	\$ 14,795,676
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 32,922	\$ 4,123,803
	MIDWAY 69 KV STATCOM	6/1/2007	6/1/2008	12/1/2007	No	\$ 20,120	\$ 3,000,000
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		Yes	\$ 174,139	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 4,612	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 44,152	\$ 5,000,000
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$ 32,836	\$ 1,164,639
	Potter - Roosevelt 345KV	4/1/2007	6/1/2010		No	\$ 55,243	\$ 38,504,390
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$ 81,640	\$ 3,700,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 186,591	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 126,400	\$ 21,000,000
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2008	6/1/2008			\$ 159,121	\$ 6,000,000
					Total	\$ 937,683	\$ 225,185,322
1091032	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 9,970	\$ 14,795,676
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 16,462	\$ 4,123,803
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		Yes	\$ 87,095	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 2,307	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 22,076	\$ 5,000,000
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$ 16,418	\$ 1,164,639
	Potter - Roosevelt 345KV	4/1/2007	6/1/2010		No	\$ 27,622	\$ 38,504,390



Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$	40,824	\$	3,700,000	
	Speerville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$	93,301	\$	31,000,000	
	Speerville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$	63,204	\$	21,000,000	
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2008	6/1/2008			\$	79,550	\$	6,000,000	
						Total	\$	458,829	\$	222,185,322
1091066	CIMARRON RIVER PLANT - NORTH CIMARRON 115KV CKT 1	6/1/2011	6/1/2011			\$	648	\$	150,000	
	GREENSBURG - JUDSON LARGE 115KV CKT 1	10/1/2006	6/1/2007		No	\$	1,949	\$	153,114	
	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$	42,130	\$	14,795,676	
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$	47,291	\$	4,123,803	
	MIDWAY 69 KV STATCOM	6/1/2007	6/1/2008	12/1/2007	No	\$	20,228	\$	3,000,000	
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		Yes	\$	133,683	\$	94,396,814	
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$	3,540	\$	2,500,000	
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$	52,779	\$	5,000,000	
	Potter - Roosevelt 345KV	4/1/2007	6/1/2010		No	\$	99,596	\$	38,504,390	
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$	129,134	\$	3,700,000	
	Speerville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$	201,539	\$	31,000,000	
	Speerville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$	136,527	\$	21,000,000	
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2008	6/1/2008			\$	154,598	\$	6,000,000	
						Total	\$	1,023,642	\$	224,323,797

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
1091026	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	STRANGER - THORNTON 115KV	6/1/2009	6/1/2009		
1091027	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	STRANGER - THORNTON 115KV	6/1/2009	6/1/2009		
1091028	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	STRANGER - THORNTON 115KV	6/1/2009	6/1/2009		
	STULL SWITCHING STATION - TECUMSEH HILL 115KV CKT 1	10/1/2007	4/1/2008	12/1/2007	No
1091030	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	STRANGER - THORNTON 115KV	6/1/2009	6/1/2009		
1091031	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	STRANGER - THORNTON 115KV	6/1/2009	6/1/2009		
1091032	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	STRANGER - THORNTON 115KV	6/1/2009	6/1/2009		
1091066	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	STRANGER - THORNTON 115KV	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
1091026	Morewood Conversion	12/1/2011	6/1/2008		
1091027	Morewood Conversion	12/1/2011	6/1/2008		
1091028	Morewood Conversion	12/1/2011	6/1/2008		
1091030	Morewood Conversion	12/1/2011	6/1/2008		
1091031	Morewood Conversion	12/1/2011	6/1/2008		
1091032	Morewood Conversion	12/1/2011	6/1/2008		
1091066	Morewood Conversion	12/1/2011	6/1/2008		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
MIDW AG2-2006-097

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
MIDW	1090917	WR	WR	20	6/1/2008	6/1/2038	6/1/2011	6/1/2041	\$ -	\$ -	\$ 247,771	\$ -
MIDW	1090919	WR	WR	5	6/1/2008	6/1/2038	6/1/2011	6/1/2041	\$ -	\$ -	\$ 54,970	\$ -
MIDW	1090920	WR	WR	40	6/1/2008	6/1/2038	6/1/2011	6/1/2041	\$ -	\$ -	\$ 495,542	\$ -
MIDW	1090921	WR	WR	10	6/1/2008	6/1/2038	6/1/2011	6/1/2041	\$ -	\$ -	\$ 123,882	\$ -
MIDW	1090922	WR	WR	50	6/1/2008	6/1/2038	6/1/2011	6/1/2041	\$ -	\$ -	\$ 1,087,397	\$ -
MIDW	1090923	WR	WR	11	6/1/2008	6/1/2038	6/1/2011	6/1/2041	\$ -	\$ -	\$ 212,540	\$ -
MIDW	1090929	WR	WR	107	6/1/2008	6/1/2038	6/1/2011	6/1/2041	\$ -	\$ -	\$ 1,325,591	\$ -
MIDW	1090930	WR	WR	25	6/1/2008	6/1/2038	6/1/2011	6/1/2041	\$ -	\$ -	\$ 309,716	\$ -
MIDW	1090931	WR	WR	121	6/1/2008	6/1/2038	6/1/2011	6/1/2041	\$ -	\$ -	\$ 1,499,010	\$ -
MIDW	1090932	WR	WR	29	6/1/2008	6/1/2038	6/1/2011	6/1/2041	\$ -	\$ -	\$ 359,276	\$ -
MIDW	1090934	WR	WR	60	6/1/2008	6/1/2038	6/1/2011	6/1/2041	\$ -	\$ -	\$ 743,312	\$ -
MIDW	1090935	WR	WR	15	6/1/2008	6/1/2038	6/1/2011	6/1/2041	\$ -	\$ -	\$ 185,807	\$ -
									\$ -	\$ -	\$ 4,422,712	\$ 1,204,568,718

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090917	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		No	\$ 24,525	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 650	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 1,376	\$ 5,000,000
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$ 31,044	\$ 1,164,639
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$ 69,795	\$ 3,700,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 824	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 558	\$ 21,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 118,999	\$ 42,000,000
					Total	\$ 247,771	\$ 200,761,453
1090919	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$ 7,760	\$ 1,164,639
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$ 17,447	\$ 3,700,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 29,763	\$ 42,000,000
					Total	\$ 54,970	\$ 46,864,639
1090920	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		No	\$ 49,050	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 1,299	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 2,752	\$ 5,000,000
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$ 62,087	\$ 1,164,639
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$ 139,590	\$ 3,700,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 1,649	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 1,117	\$ 21,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 237,998	\$ 42,000,000
					Total	\$ 495,542	\$ 200,761,453
1090921	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		No	\$ 12,263	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 325	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 688	\$ 5,000,000
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$ 15,522	\$ 1,164,639
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$ 34,894	\$ 3,700,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 412	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 279	\$ 21,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 59,499	\$ 42,000,000
					Total	\$ 123,882	\$ 200,761,453
1090922	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 178,586	\$ 3,000,000
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		No	\$ 118,204	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 3,130	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 54,085	\$ 5,000,000
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$ 19,490	\$ 1,164,639
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$ 79,252	\$ 3,700,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 207,499	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 140,564	\$ 21,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 286,587	\$ 42,000,000
					Total	\$ 1,087,397	\$ 203,761,453
1090923	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 39,289	\$ 3,000,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 11,900	\$ 5,000,000
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$ 4,288	\$ 1,164,639
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$ 17,433	\$ 3,700,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 45,648	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 30,923	\$ 21,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 63,059	\$ 42,000,000
					Total	\$ 212,540	\$ 106,864,639
1090929	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		No	\$ 131,220	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 3,475	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 7,361	\$ 5,000,000

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available			
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$	166,084	\$ 1,164,639
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$	373,406	\$ 3,700,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$	4,411	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$	2,988	\$ 21,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$	636,646	\$ 42,000,000
							Total	\$ 1,325,591 \$ 200,761,453
1090930	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		No	\$	30,657	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$	812	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$	1,721	\$ 5,000,000
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$	38,804	\$ 1,164,639
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$	87,242	\$ 3,700,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$	1,025	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$	694	\$ 21,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$	148,761	\$ 42,000,000
							Total	\$ 309,716 \$ 200,761,453
1090931	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		No	\$	148,358	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$	3,929	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$	8,325	\$ 5,000,000
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$	187,815	\$ 1,164,639
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$	422,262	\$ 3,700,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$	4,990	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$	3,381	\$ 21,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$	719,950	\$ 42,000,000
							Total	\$ 1,499,010 \$ 200,761,453
1090932	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		No	\$	35,582	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$	942	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$	1,994	\$ 5,000,000
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$	45,014	\$ 1,164,639
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$	101,204	\$ 3,700,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$	1,192	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$	807	\$ 21,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$	172,541	\$ 42,000,000
							Total	\$ 359,276 \$ 200,761,453
1090934	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		No	\$	73,576	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$	1,949	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$	4,127	\$ 5,000,000
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$	93,131	\$ 1,164,639
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$	209,385	\$ 3,700,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$	2,473	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$	1,675	\$ 21,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$	356,996	\$ 42,000,000
							Total	\$ 743,312 \$ 200,761,453
1090935	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		No	\$	18,394	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$	487	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$	1,030	\$ 5,000,000
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$	23,284	\$ 1,164,639
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$	52,348	\$ 3,700,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$	613	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$	415	\$ 21,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$	89,236	\$ 42,000,000
							Total	\$ 185,807 \$ 200,761,453

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
1090917	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
1090919	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
1090920	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
1090921	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
1090922	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
1090923	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
1090929	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
1090930	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
1090931	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
1090932	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
1090934	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
1090935	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No

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
1090922	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		
1090923	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
MIDW AG2-2006-098

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
MIDW	1090958	WR	WR	3	6/1/2008	6/2/2038	6/1/2010	6/1/2040	\$ -	\$ -	\$ 65,893	\$ -
MIDW	1091043	WR	WR	1	6/1/2008	6/1/2038	6/1/2010	6/1/2040	\$ -	\$ -	\$ 2,043	\$ -
MIDW	1091044	WR	WR	2	6/1/2008	6/1/2038	6/1/2010	6/1/2040	\$ -	\$ -	\$ 43,938	\$ -
MIDW	1091045	WR	WR	2	6/1/2008	6/1/2038	6/1/2011	6/1/2041	\$ -	\$ -	\$ -	\$ -
MIDW	1091047	WR	WR	5	6/1/2008	6/1/2038	6/1/2010	6/1/2040	\$ -	\$ -	\$ 109,812	\$ -
MIDW	1091048	WR	WR	6	6/1/2008	6/1/2038	6/1/2010	6/1/2040	\$ -	\$ -	\$ 183,381	\$ -
									\$ -	\$ -	\$ 405,067	\$ 345,520,009

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090958	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 5,968	\$ 5,000,000
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$ 5,643	\$ 1,164,639
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$ 11,382	\$ 3,700,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 25,575	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 17,325	\$ 21,000,000
					Total	\$ 65,893	\$ 61,864,639
1091043	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$ 2,043	\$ 1,164,639
					Total	\$ 2,043	\$ 1,164,639
1091044	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 3,978	\$ 5,000,000
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$ 3,763	\$ 1,164,639
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$ 7,590	\$ 3,700,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 17,054	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 11,553	\$ 21,000,000
					Total	\$ 43,938	\$ 61,864,639
1091047	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 9,946	\$ 5,000,000
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$ 9,406	\$ 1,164,639
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$ 18,972	\$ 3,700,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 42,618	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 28,870	\$ 21,000,000
					Total	\$ 109,812	\$ 61,864,639
1091048	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		Yes	\$ 50,257	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 1,331	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 11,934	\$ 5,000,000
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$ 11,287	\$ 1,164,639
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$ 22,771	\$ 3,700,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 51,151	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 34,650	\$ 21,000,000
					Total	\$ 183,381	\$ 158,761,453

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
1090958	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
1091044	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
1091045	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
1091047	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
1091048	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No

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
1090958	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		
	Morewood Conversion	12/1/2011	6/1/2008		
1091044	Morewood Conversion	12/1/2011	6/1/2008		
1091045	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		
	Morewood Conversion	12/1/2011	6/1/2008		
1091047	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		
	Morewood Conversion	12/1/2011	6/1/2008		
1091048	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		
	Morewood Conversion	12/1/2011	6/1/2008		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
MIDW AG2-2006-099

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding	Point-to-Point Base Rate	Total Allocated	Total Cost		
MIDW	1091034	WR	WR	1	6/1/2008	6/1/2038	6/1/2010	6/1/2040	\$ -	\$ -	\$ 1,839	\$ -		
MIDW	1091035	WR	WR	1	6/1/2008	6/1/2038	6/1/2010	6/1/2040	\$ -	\$ -	\$ 1,839	\$ -		
MIDW	1091036	WR	WR	1	6/1/2008	6/1/2038	6/1/2011	6/1/2041	\$ -	\$ -	\$ -	\$ -		
MIDW	1091039	WR	WR	3	6/1/2008	6/1/2038	6/1/2010	6/1/2040	\$ -	\$ -	\$ 175,553	\$ -		
MIDW	1091040	WR	WR	3	6/1/2008	6/1/2038	6/1/2010	6/1/2040	\$ -	\$ -	\$ 175,553	\$ -		
MIDW	1091041	WR	WR	2	6/1/2008	6/1/2038	6/1/2010	6/1/2040	\$ -	\$ -	\$ 119,515	\$ -		
											\$ -	\$ -	\$ 474,299	\$ 205,923,195

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1091034	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$ 1,839	\$ 1,164,639
						Total	\$ 1,839
1091035	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$ 1,839	\$ 1,164,639
						Total	\$ 1,839
1091039	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 6,590	\$ 5,000,000
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$ 5,019	\$ 1,164,639
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$ 12,194	\$ 3,700,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 28,193	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 19,098	\$ 21,000,000
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2008	6/1/2008			\$ 104,459	\$ 6,000,000
						Total	\$ 175,553
1091040	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 6,590	\$ 5,000,000
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$ 5,019	\$ 1,164,639
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$ 12,194	\$ 3,700,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 28,193	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 19,098	\$ 21,000,000
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2008	6/1/2008			\$ 104,459	\$ 6,000,000
						Total	\$ 175,553
1091041	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 4,393	\$ 5,000,000
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$ 3,345	\$ 1,164,639
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$ 8,125	\$ 3,700,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 18,803	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 12,737	\$ 21,000,000
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2008	6/1/2008			\$ 72,112	\$ 6,000,000
						Total	\$ 119,515

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
1091036	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
1091039	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	STRANGER - THORNTON 115KV	6/1/2009	6/1/2009		
1091040	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	STRANGER - THORNTON 115KV	6/1/2009	6/1/2009		
1091041	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	STRANGER - THORNTON 115KV	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
1091039	Morewood Conversion	12/1/2011	6/1/2008		
1091040	Morewood Conversion	12/1/2011	6/1/2008		
1091041	Morewood Conversion	12/1/2011	6/1/2008		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
MIDW AG2-2006-100

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
MIDW	1090694	AMRN	WR	2	5/1/2010	5/1/2030	6/1/2010	6/1/2030	\$ -	\$ -	\$ 4,109	\$ -
MIDW	1090735	AMRN	WR	1	5/1/2010	5/1/2030	5/1/2010	5/1/2030	\$ -	\$ -	\$ -	\$ -
MIDW	1090737	AMRN	WR	1	5/1/2010	5/1/2030	5/1/2010	5/1/2030	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ 4,109	\$ 4,123,803

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090694	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 4,109	\$ 4,123,803
						Total	\$ 4,109 \$ 4,123,803

Customer Study Number  
MIDW AG2-2006-101

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
MIDW	1090679	AMRN	WR	1	5/1/2010	5/1/2030	5/1/2010	5/1/2030	\$ -	\$ -	\$ -	\$ -
MIDW	1090683	AMRN	WR	1	5/1/2010	5/1/2030	5/1/2010	5/1/2030	\$ -	\$ -	\$ -	\$ -
MIDW	1090684	AMRN	WR	1	5/1/2010	5/1/2030	5/1/2010	5/1/2030	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090679	None					\$ -	\$ -
						Total	\$ - \$ -
1090683	None					\$ -	\$ -
						Total	\$ - \$ -
1090684	None					\$ -	\$ -
						Total	\$ - \$ -

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
MIDW AG2-2006-106

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
MIDW	1090964	WR	WR	35	1/1/2007	1/1/2012	6/1/2011	6/1/2016	\$ 4,500,000	\$ -	\$ 1,687,466	\$ -
MIDW	1090965	WR	WR	10	1/1/2007	1/1/2012	6/1/2011	6/1/2016	\$ 1,800,000	\$ -	\$ 372,741	\$ -
									\$ 6,300,000	\$ -	\$ 2,060,207	\$ 153,959,639

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090964	CLAY CENTER - GREENLEAF 115KV CKT 1	6/1/2011	6/1/2011			\$ 80,258	\$ 7,520,000
	COUNTY LINE - HOOK JCT 115KV CKT 1	6/1/2011	6/1/2011			\$ 137,470	\$ 1,400,000
	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1	6/1/2011	6/1/2011			\$ 93,440	\$ 1,400,000
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014			\$ 462,942	\$ 7,300,000
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			\$ 412,209	\$ 6,500,000
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 98,065	\$ 3,000,000
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$ 1,211	\$ 1,164,639
	Tuco - Tolk 345KV	4/1/2007	6/1/2010		No	\$ 70,511	\$ 24,875,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 331,360	\$ 42,000,000
					Total	\$ 1,687,466	\$ 95,159,639
1090965	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014			\$ 132,269	\$ 7,300,000
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			\$ 117,774	\$ 6,500,000
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 28,020	\$ 3,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 94,678	\$ 42,000,000
					Total	\$ 372,741	\$ 58,800,000

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
1090964	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2011	6/1/2011		
1090965	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV 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
1090964	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		
	PHILLIPSBURG TO RHOADES 115KV	4/1/2007	6/1/2008	10/1/2007	No
1090965	PHILLIPSBURG TO RHOADES 115KV	4/1/2007	6/1/2008	10/1/2007	No

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
MIDW AG2-2006-107

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
MIDW	1090816	WR	WR	25	6/1/2007	6/1/2027	6/1/2011	6/1/2031	\$ 4,500,000	\$ -	\$ 1,059,915	\$ -
MIDW	1090817	WR	WR	25	6/1/2007	6/1/2017	6/1/2011	6/1/2021	\$ -	\$ -	\$ 1,059,915	\$ -
									\$ 4,500,000	\$ -	\$ 2,119,830	\$ 135,440,000

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090816	CLAY CENTER - GREENLEAF 115KV CKT 1	6/1/2011	6/1/2011			\$ 61,314	\$ 7,520,000
	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1	6/1/2011	6/1/2011			\$ 66,737	\$ 1,400,000
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014			\$ 330,673	\$ 7,300,000
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			\$ 294,435	\$ 6,500,000
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 70,048	\$ 3,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 236,708	\$ 42,000,000
	Total					\$ 1,059,915	\$ 67,720,000
1090817	CLAY CENTER - GREENLEAF 115KV CKT 1	6/1/2011	6/1/2011			\$ 61,314	\$ 7,520,000
	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1	6/1/2011	6/1/2011			\$ 66,737	\$ 1,400,000
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014			\$ 330,673	\$ 7,300,000
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			\$ 294,435	\$ 6,500,000
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 70,048	\$ 3,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 236,708	\$ 42,000,000
	Total					\$ 1,059,915	\$ 67,720,000

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
1090816	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2011	6/1/2011		
1090817	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV 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
1090816	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		
	PHILLIPSBURG TO RHOADES 115KV	4/1/2007	6/1/2008	10/1/2007	No
1090817	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		
	PHILLIPSBURG TO RHOADES 115KV	4/1/2007	6/1/2008	10/1/2007	No



Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
MIDW AG2-2006-108

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
MIDW	1090747	WR	WR	15	6/1/2008	6/1/2028	6/1/2011	6/1/2031	\$ -	\$ -	\$ 599,143	\$ -
MIDW	1090748	WR	WR	5	6/1/2008	6/1/2028	6/1/2011	6/1/2031	\$ -	\$ -	\$ 61,362	\$ -
MIDW	1090756	WR	WR	15	6/1/2008	6/1/2028	6/1/2011	6/1/2031	\$ -	\$ -	\$ 599,143	\$ -
MIDW	1090757	WR	WR	5	6/1/2008	6/1/2028	6/1/2011	6/1/2031	\$ -	\$ -	\$ 61,362	\$ -
MIDW	1090826	WR	WR	40	6/1/2008	6/1/2028	6/1/2011	6/1/2031	\$ -	\$ -	\$ 1,926,698	\$ -
MIDW	1090827	WR	WR	40	6/1/2008	6/1/2028	6/1/2011	6/1/2031	\$ -	\$ -	\$ 1,926,698	\$ -
MIDW	1090828	WR	WR	19	6/1/2008	6/1/2028	6/1/2011	6/1/2031	\$ -	\$ -	\$ 758,930	\$ -
MIDW	1090829	WR	WR	15	6/1/2008	6/1/2028	6/1/2011	6/1/2031	\$ -	\$ -	\$ 599,143	\$ -
MIDW	1090839	WR	WR	40	6/1/2008	6/1/2028	6/1/2011	6/1/2031	\$ -	\$ -	\$ 1,926,698	\$ -
MIDW	1090841	WR	WR	40	6/1/2008	6/1/2028	6/1/2011	6/1/2031	\$ -	\$ -	\$ 1,926,698	\$ -
MIDW	1090844	WR	WR	10	6/1/2008	6/1/2028	6/1/2011	6/1/2031	\$ -	\$ -	\$ 372,741	\$ -
MIDW	1090845	WR	WR	10	6/1/2008	6/1/2028	6/1/2011	6/1/2031	\$ -	\$ -	\$ 372,741	\$ -
MIDW	1090847	WR	WR	6	6/1/2008	6/1/2028	6/1/2011	6/1/2031	\$ -	\$ -	\$ 206,848	\$ -
MIDW	1090852	WR	WR	10	6/1/2008	6/1/2028	6/1/2011	6/1/2031	\$ -	\$ -	\$ 372,741	\$ -
MIDW	1090853	WR	WR	19	6/1/2008	6/1/2028	6/1/2011	6/1/2031	\$ -	\$ -	\$ 758,930	\$ -
MIDW	1090854	WR	WR	6	6/1/2008	6/1/2028	6/1/2011	6/1/2031	\$ -	\$ -	\$ 206,848	\$ -
MIDW	1091052	WR	WR	10	6/1/2008	6/1/2028	6/1/2011	6/1/2031	\$ -	\$ -	\$ 372,741	\$ -
MIDW	1091053	WR	WR	20	6/1/2008	6/1/2028	6/1/2011	6/1/2031	\$ -	\$ -	\$ 798,872	\$ -
MIDW	1091055	WR	WR	30	6/1/2008	6/1/2028	6/1/2011	6/1/2031	\$ -	\$ -	\$ 1,451,198	\$ -
MIDW	1091057	WR	WR	10	6/1/2008	6/1/2028	6/1/2011	6/1/2031	\$ -	\$ -	\$ 372,741	\$ -
									\$ -	\$ -	\$ 3,961,330	\$ 388,959,639

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090747	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1	6/1/2011	6/1/2011			\$ 40,047	\$ 1,400,000
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014			\$ 198,404	\$ 7,300,000
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			\$ 176,661	\$ 6,500,000
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 42,027	\$ 3,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 142,004	\$ 42,000,000
					Total	\$ 599,143	\$ 60,200,000
1090748	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 14,010	\$ 3,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 47,352	\$ 42,000,000
					Total	\$ 61,362	\$ 45,000,000
1090756	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1	6/1/2011	6/1/2011			\$ 40,047	\$ 1,400,000
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014			\$ 198,404	\$ 7,300,000
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			\$ 176,661	\$ 6,500,000
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 42,027	\$ 3,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 142,004	\$ 42,000,000
					Total	\$ 599,143	\$ 60,200,000
1090757	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 14,010	\$ 3,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 47,352	\$ 42,000,000
					Total	\$ 61,362	\$ 45,000,000
1090826	CLAY CENTER - GREENLEAF 115KV CKT 1	6/1/2011	6/1/2011			\$ 91,711	\$ 7,520,000
	COUNTY LINE - HOOK JCT 115KV CKT 1	6/1/2011	6/1/2011			\$ 157,120	\$ 1,400,000
	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1	6/1/2011	6/1/2011			\$ 106,785	\$ 1,400,000
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014			\$ 529,077	\$ 7,300,000
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			\$ 471,096	\$ 6,500,000
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 112,075	\$ 3,000,000
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$ 1,383	\$ 1,164,639
	Tuco - Tolk 345KV	4/1/2007	6/1/2010		No	\$ 78,739	\$ 24,875,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 378,712	\$ 42,000,000
					Total	\$ 1,926,698	\$ 95,159,639
1090827	CLAY CENTER - GREENLEAF 115KV CKT 1	6/1/2011	6/1/2011			\$ 91,711	\$ 7,520,000
	COUNTY LINE - HOOK JCT 115KV CKT 1	6/1/2011	6/1/2011			\$ 157,120	\$ 1,400,000
	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1	6/1/2011	6/1/2011			\$ 106,785	\$ 1,400,000
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014			\$ 529,077	\$ 7,300,000
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			\$ 471,096	\$ 6,500,000
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 112,075	\$ 3,000,000
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$ 1,383	\$ 1,164,639
	Tuco - Tolk 345KV	4/1/2007	6/1/2010		No	\$ 78,739	\$ 24,875,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 378,712	\$ 42,000,000
					Total	\$ 1,926,698	\$ 95,159,639
1090828	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1	6/1/2011	6/1/2011			\$ 50,726	\$ 1,400,000
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014			\$ 251,309	\$ 7,300,000
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			\$ 223,768	\$ 6,500,000
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 53,236	\$ 3,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 179,891	\$ 42,000,000
					Total	\$ 758,930	\$ 60,200,000

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

1090829	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1	6/1/2011	6/1/2011			\$	40,047	\$	1,400,000
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014			\$	198,404	\$	7,300,000
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			\$	176,661	\$	6,500,000
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$	42,027	\$	3,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$	142,004	\$	42,000,000
					Total	\$	599,143	\$	60,200,000
1090839	CLAY CENTER - GREENLEAF 115KV CKT 1	6/1/2011	6/1/2011			\$	91,711	\$	7,520,000
	COUNTY LINE - HOOK JCT 115KV CKT 1	6/1/2011	6/1/2011			\$	157,120	\$	1,400,000
	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1	6/1/2011	6/1/2011			\$	106,785	\$	1,400,000
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014			\$	529,077	\$	7,300,000
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			\$	471,096	\$	6,500,000
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$	112,075	\$	3,000,000
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$	1,383	\$	1,164,639
	Tuco - Tolk 345KV	4/1/2007	6/1/2010		No	\$	78,739	\$	24,875,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$	378,712	\$	42,000,000
					Total	\$	1,926,698	\$	95,159,639
1090841	CLAY CENTER - GREENLEAF 115KV CKT 1	6/1/2011	6/1/2011			\$	91,711	\$	7,520,000
	COUNTY LINE - HOOK JCT 115KV CKT 1	6/1/2011	6/1/2011			\$	157,120	\$	1,400,000
	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1	6/1/2011	6/1/2011			\$	106,785	\$	1,400,000
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014			\$	529,077	\$	7,300,000
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			\$	471,096	\$	6,500,000
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$	112,075	\$	3,000,000
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$	1,383	\$	1,164,639
	Tuco - Tolk 345KV	4/1/2007	6/1/2010		No	\$	78,739	\$	24,875,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$	378,712	\$	42,000,000
					Total	\$	1,926,698	\$	95,159,639
1090844	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014			\$	132,269	\$	7,300,000
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			\$	117,774	\$	6,500,000
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$	28,020	\$	3,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$	94,678	\$	42,000,000
					Total	\$	372,741	\$	58,800,000
1090845	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014			\$	132,269	\$	7,300,000
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			\$	117,774	\$	6,500,000
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$	28,020	\$	3,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$	94,678	\$	42,000,000
					Total	\$	372,741	\$	58,800,000
1090847	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014			\$	79,364	\$	7,300,000
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			\$	70,667	\$	6,500,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$	56,817	\$	42,000,000
					Total	\$	206,848	\$	55,800,000
1090852	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014			\$	132,269	\$	7,300,000
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			\$	117,774	\$	6,500,000
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$	28,020	\$	3,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$	94,678	\$	42,000,000
					Total	\$	372,741	\$	58,800,000
1090853	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1	6/1/2011	6/1/2011			\$	50,726	\$	1,400,000
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014			\$	251,309	\$	7,300,000
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			\$	223,768	\$	6,500,000
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$	53,236	\$	3,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$	179,891	\$	42,000,000
					Total	\$	758,930	\$	60,200,000
1090854	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014			\$	79,364	\$	7,300,000
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			\$	70,667	\$	6,500,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$	56,817	\$	42,000,000
					Total	\$	206,848	\$	55,800,000
1091052	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014			\$	132,269	\$	7,300,000
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			\$	117,774	\$	6,500,000
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$	28,020	\$	3,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$	94,678	\$	42,000,000
					Total	\$	372,741	\$	58,800,000
1091053	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1	6/1/2011	6/1/2011			\$	53,392	\$	1,400,000
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014			\$	264,538	\$	7,300,000
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			\$	235,548	\$	6,500,000
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$	56,038	\$	3,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$	189,356	\$	42,000,000
					Total	\$	798,872	\$	60,200,000
1091055	CLAY CENTER - GREENLEAF 115KV CKT 1	6/1/2011	6/1/2011			\$	73,589	\$	7,520,000
	COUNTY LINE - HOOK JCT 115KV CKT 1	6/1/2011	6/1/2011			\$	117,821	\$	1,400,000
	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1	6/1/2011	6/1/2011			\$	80,095	\$	1,400,000
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014			\$	396,807	\$	7,300,000
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			\$	353,322	\$	6,500,000
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$	84,055	\$	3,000,000
	PLAINVILLE CAPACITOR	6/1/2007	1/1/2008	10/1/2007	No	\$	1,037	\$	1,164,639

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

	Tuco - Tolk 345kV	4/1/2007	6/1/2010	No	\$ 60,438	\$ 24,875,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011	Yes	\$ 284,034	\$ 42,000,000
				Total	\$ 1,451,198	\$ 95,159,639
1091057	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014		\$ 132,269	\$ 7,300,000
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014		\$ 117,774	\$ 6,500,000
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009	No	\$ 28,020	\$ 3,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011	Yes	\$ 94,678	\$ 42,000,000
				Total	\$ 372,741	\$ 58,800,000

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
1090747	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2011	6/1/2011		
1090748	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
1090756	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2011	6/1/2011		
1090757	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
1090826	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2011	6/1/2011		
1090827	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2011	6/1/2011		
1090828	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2011	6/1/2011		
1090829	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2011	6/1/2011		
1090839	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2011	6/1/2011		
1090841	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2011	6/1/2011		
1090844	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2011	6/1/2011		
1090845	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2011	6/1/2011		
1090847	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
1090852	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2011	6/1/2011		
1090853	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2011	6/1/2011		
1090854	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
1091052	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2011	6/1/2011		
1091053	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		

**Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade**

	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2011	6/1/2011		
1091055	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2011	6/1/2011		
1091057	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV 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
1090826	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		
1090827	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		
1090828	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		
1090839	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		
1090841	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		
1090853	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		
1091053	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		
1091055	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		

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Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
MIDW	1090851	WR	WR	5	6/1/2011	6/1/2031	6/1/2011	6/1/2031	\$ -	\$ -	\$ 61,362	\$ -
MIDW	1090855	WR	WR	15	6/1/2011	6/1/2021	6/1/2011	6/1/2021	\$ -	\$ -	\$ 599,143	\$ -
MIDW	1090856	WR	WR	5	6/1/2011	6/1/2021	6/1/2011	6/1/2021	\$ -	\$ -	\$ 61,362	\$ -
									\$ -	\$ -	\$ 721,867	\$ 150,200,000

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090851	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 14,010	\$ 3,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		No	\$ 47,352	\$ 42,000,000
					Total	\$ 61,362	\$ 45,000,000
1090855	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1	6/1/2011	6/1/2011			\$ 40,047	\$ 1,400,000
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014			\$ 198,404	\$ 7,300,000
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			\$ 176,661	\$ 6,500,000
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 42,027	\$ 3,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		No	\$ 142,004	\$ 42,000,000
					Total	\$ 599,143	\$ 60,200,000
1090856	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 14,010	\$ 3,000,000
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		No	\$ 47,352	\$ 42,000,000
					Total	\$ 61,362	\$ 45,000,000

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
1090851	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
1090855	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2011	6/1/2011		
1090856	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
MIDW AG2-2006-110

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
MIDW	1090750	WR	WR	15	6/1/2015	6/1/2035	6/1/2015	6/1/2035	\$ -	\$ -	\$ 417,182	\$ -
MIDW	1090751	WR	WR	5	6/1/2015	6/1/2035	6/1/2015	6/1/2035	\$ -	\$ -	\$ 14,039	\$ -
MIDW	1090759	WR	WR	5	6/1/2015	6/1/2025	6/1/2015	6/1/2025	\$ -	\$ -	\$ 14,039	\$ -
MIDW	1091068	WR	WR	15	6/1/2015	6/1/2025	6/1/2015	6/1/2025	\$ -	\$ -	\$ 417,182	\$ -
									\$ -	\$ -	\$ 862,442	\$ 39,600,000

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090750	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014			\$ 198,404	\$ 7,300,000
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			\$ 176,661	\$ 6,500,000
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 42,117	\$ 3,000,000
						Total	\$ 417,182 \$ 16,800,000
1090751	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009			No	\$ 14,039 \$ 3,000,000
						Total	\$ 14,039 \$ 3,000,000
1090759	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009			No	\$ 14,039 \$ 3,000,000
						Total	\$ 14,039 \$ 3,000,000
1091068	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014			\$ 198,404	\$ 7,300,000
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			\$ 176,661	\$ 6,500,000
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 42,117	\$ 3,000,000
						Total	\$ 417,182 \$ 16,800,000

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
1090750	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2011	6/1/2011		
1090751	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
1091068	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2011	6/1/2011		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
 MIDW AG2-2006-118

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
MIDW	1090959	SECI	WR	75	6/1/2011	6/1/2041	6/1/2011	6/1/2041	\$ -	\$ -	\$ 2,959,267	\$ -
									\$ -	\$ -	\$ 2,959,267	\$ 222,823,797

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	
1090959	CIMARRON RIVER PLANT - NORTH CIMARRON 115KV CKT 1	6/1/2011	6/1/2011			\$ 4,363	\$ 150,000	
	GREENSBURG - JUDSON LARGE 115KV CKT 1	10/1/2006	6/1/2007		No	\$ 22,676	\$ 153,114	
	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 346,079	\$ 14,795,676	
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 82,015	\$ 4,123,803	
	KNOLL 230/115KV TRANSFORMER CKT 2	6/1/2008	1/1/2009		No	\$ 181,975	\$ 3,000,000	
	MEDICINE LODGE - SUN CITY 115KV CKT 1	6/1/2007	6/1/2007			\$ 17,060	\$ 100,000	
	MIDWAY 69 KV STATCOM	6/1/2007	6/1/2008	12/1/2007	No	\$ 91,171	\$ 3,000,000	
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		No	\$ 166,400	\$ 94,396,814	
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 4,407	\$ 2,500,000	
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 206,556	\$ 5,000,000	
	NORTH CIMARRON 24MVAR CAPACITOR	6/1/2011	6/1/2011			\$ 55,358	\$ 1,400,000	
	Potter - Roosevelt 345KV	4/1/2007	6/1/2010		No	\$ 603,464	\$ 38,504,390	
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$ 78,305	\$ 3,700,000	
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 655,434	\$ 31,000,000	
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 444,004	\$ 21,000,000	
						Total	\$ 2,959,267	\$ 222,823,797

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
1090959	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		

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
1090959	Morewood Conversion	12/1/2011	6/1/2008		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
 OGE AG2-2006-035

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
OGE	1087908	OKGE	EES	10	12/1/2006	12/1/2011	6/1/2010	6/1/2015	\$ -	\$ 540,000	\$ 514,557	\$ -
									\$ -	\$ 540,000	\$ 514,557	\$ 204,980,493

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	
1087908	BROKEN BOW - CRAIG JUNCTION 138KV CKT 1	12/1/2006	6/1/2008		Yes	\$ 214,000	\$ 4,000,000	
	CANADIAN - CEDAR LANE 138KV CKT 1	6/1/2014	6/1/2014			\$ 7,099	\$ 50,000	
	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2010	6/1/2010			\$ 16,716	\$ 2,500,000	
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2010	6/1/2010			\$ 3,343	\$ 500,000	
	CRESWELL - NEWKIRK 138KV CKT 1	6/1/2011	6/1/2011			\$ 36,976	\$ 4,740,000	
	CRESWELL (CRESWL2X) 138/69/13.2KV TRANSFORMER CKT 1	6/1/2007	4/1/2009	10/1/2008	Yes	\$ 11,405	\$ 4,000,000	
	FRANKLIN SW - MIDWEST TAP 138KV CKT 1	6/1/2014	6/1/2014			\$ 2,800	\$ 100,000	
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		No	\$ 73,576	\$ 94,396,814	
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 1,949	\$ 2,500,000	
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 22,428	\$ 5,000,000	
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 65,253	\$ 31,000,000	
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 44,203	\$ 21,000,000	
	Tuco - Tolk 345kV	4/1/2007	6/1/2010		No	\$ 11,226	\$ 24,875,000	
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 3,583	\$ 10,318,679	
						Total	\$ 514,557	\$ 204,980,493

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
1087908	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	MUSKOGEE 345/161KV TRANSFORMER CKT 1	6/1/2014	6/1/2014		

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
1087908	Chamber Springs - Tontitown 345 kV	6/1/2007	6/1/2009	10/1/2008	No
	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
PNMM AG2-2006-089

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
PNMM	1090813	SECI	BLKW	75	6/1/2011	6/1/2041	6/1/2011	6/1/2041	\$ -	\$ 39,177,000	\$21,683,434	\$ -
PNMM	1090814	SECI	BLKW	75	6/1/2011	6/1/2041	6/1/2011	6/1/2041	\$ -	\$ 39,177,000	\$21,683,434	\$ -
									\$ -	\$ 78,354,000	\$43,366,868	\$ 497,649,392

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090813	ALTUS JCT TAP - RUSSELL 138KV CKT 1	2/1/2011	2/1/2011			\$ 133,130	\$ 3,125,000
	CIMARRON RIVER PLANT - NORTH CIMARRON 115KV CKT 1	6/1/2011	6/1/2011			\$ 7,512	\$ 150,000
	GREENSBURG - JUDSON LARGE 115KV CKT 1	10/1/2006	6/1/2007		No	\$ 6,283	\$ 153,114
	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 765,960	\$ 14,795,676
	LAKE PAULINE - RUSSELL 138KV CKT 1	6/1/2015	6/1/2015			\$ 2,075	\$ 50,000
	LEA COUNTY INTERCHANGE 230KV CAPACITORS	4/1/2008	4/1/2008			\$ 133,081	\$ 1,381,023
	MEDICINE LODGE - SUN CITY 115KV CKT 1	6/1/2007	6/1/2007			\$ 4,727	\$ 100,000
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		No	\$ 7,928,439	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 209,976	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 79,883	\$ 5,000,000
	NORTH CIMARRON 24MVAR CAPACITOR	6/1/2011	6/1/2011			\$ 74,907	\$ 1,400,000
	Potter - Roosevelt 345KV	4/1/2007	6/1/2010		No	\$ 6,316,427	\$ 38,504,390
	RUSSELL SWITCH CAPACITOR	12/1/2011	12/1/2011			\$ 3,085	\$ 75,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 2,025,038	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 1,371,800	\$ 21,000,000
	Tuco - Tolk 345kV	4/1/2007	6/1/2010		No	\$ 2,238,419	\$ 24,875,000
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 382,692	\$ 10,318,679
					Total	\$ 21,683,434	\$ 248,824,696
1090814	ALTUS JCT TAP - RUSSELL 138KV CKT 1	2/1/2011	2/1/2011			\$ 133,130	\$ 3,125,000
	CIMARRON RIVER PLANT - NORTH CIMARRON 115KV CKT 1	6/1/2011	6/1/2011			\$ 7,512	\$ 150,000
	GREENSBURG - JUDSON LARGE 115KV CKT 1	10/1/2006	6/1/2007		No	\$ 6,283	\$ 153,114
	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 765,960	\$ 14,795,676
	LAKE PAULINE - RUSSELL 138KV CKT 1	6/1/2015	6/1/2015			\$ 2,075	\$ 50,000
	LEA COUNTY INTERCHANGE 230KV CAPACITORS	4/1/2008	4/1/2008			\$ 133,081	\$ 1,381,023
	MEDICINE LODGE - SUN CITY 115KV CKT 1	6/1/2007	6/1/2007			\$ 4,727	\$ 100,000
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		No	\$ 7,928,439	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 209,976	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 79,883	\$ 5,000,000
	NORTH CIMARRON 24MVAR CAPACITOR	6/1/2011	6/1/2011			\$ 74,907	\$ 1,400,000
	Potter - Roosevelt 345KV	4/1/2007	6/1/2010		No	\$ 6,316,427	\$ 38,504,390
	RUSSELL SWITCH CAPACITOR	12/1/2011	12/1/2011			\$ 3,085	\$ 75,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 2,025,038	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 1,371,800	\$ 21,000,000
	Tuco - Tolk 345kV	4/1/2007	6/1/2010		No	\$ 2,238,419	\$ 24,875,000
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 382,692	\$ 10,318,679
					Total	\$ 21,683,434	\$ 248,824,696

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
1090813	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	Seven Rivers to Pecos to Potash Junction 230kV	6/1/2007	6/1/2009		No
	SNYDER AEPW- SNYDER WFEC INTERCONNECTION	6/1/2011	6/1/2011		
1090814	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	Seven Rivers to Pecos to Potash Junction 230kV	6/1/2007	6/1/2009		No
	SNYDER AEPW- SNYDER WFEC INTERCONNECTION	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
1090813	Morewood Conversion	12/1/2011	6/1/2008		
	TUCO INTERCHANGE 230KV #1	6/1/2007	6/1/2007		
	TUCO INTERCHANGE 230KV #2	6/1/2008	6/1/2008		
1090814	Morewood Conversion	12/1/2011	6/1/2008		
	TUCO INTERCHANGE 230KV #1	6/1/2007	6/1/2007		
	TUCO INTERCHANGE 230KV #2	6/1/2008	6/1/2008		



Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
SEPC AG2-2006-043

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
SEPC	1090236	SECI	WPEK	150	6/1/2011	6/1/2041	6/1/2011	6/1/2041	\$ -	\$ 52,812,000	\$14,614,228	\$ -
									\$ -	\$ 52,812,000	\$14,614,228	\$ 307,954,234

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	
1090236	CIMARRON RIVER PLANT - NORTH CIMARRON 115KV CKT 1	6/1/2011	6/1/2011			\$ 56,926	\$ 150,000	
	CLAY CENTER - GREENLEAF 115KV CKT 1	6/1/2011	6/1/2011			\$ 3,936,677	\$ 7,520,000	
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	4/1/2007	6/1/2010		No	\$ 6,784	\$ 1,515,113	
	GREENSBURG - JUDSON LARGE 115KV CKT 1	10/1/2006	6/1/2007		No	\$ 5,607	\$ 153,114	
	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 1,532,692	\$ 14,795,676	
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 194,039	\$ 4,123,803	
	MEDICINE LODGE - SUN CITY 115KV CKT 1	6/1/2007	6/1/2007			\$ 4,218	\$ 100,000	
	MIDWAY 69 KV STATCOM	6/1/2007	6/1/2008	12/1/2007	No	\$ 178,947	\$ 3,000,000	
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		No	\$ 756,111	\$ 94,396,814	
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 20,025	\$ 2,500,000	
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 387,168	\$ 5,000,000	
	NORTH CIMARRON 24MVAR CAPACITOR	6/1/2011	6/1/2011			\$ 554,305	\$ 1,400,000	
	Potter - Roosevelt 345KV	4/1/2007	6/1/2010		No	\$ 1,242,607	\$ 38,504,390	
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 18,203	\$ 3,200,000	
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 1,261,588	\$ 31,000,000	
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 854,624	\$ 21,000,000	
	Tex-Hitchland-Sherman Tap 115 kV ckt	4/1/2007	4/1/2010		No	\$ 704,123	\$ 2,401,645	
	Tuco - Tolk 345kV	4/1/2007	6/1/2010		No	\$ 728,181	\$ 24,875,000	
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 235,338	\$ 10,318,679	
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		No	\$ 1,936,065	\$ 42,000,000	
						Total	\$ 14,614,228	\$ 307,954,234

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
1090236	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	6/1/2010	6/1/2010		
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	6/1/2010	6/1/2010		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	KELLY - KING HILL N.M. COOP 115KV CKT 1	6/1/2010	6/1/2010		
	Seven Rivers to Pecos to Potash Junction 230kV	6/1/2007	6/1/2009		No

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
1090236	Morewood Conversion	12/1/2011	6/1/2008		
	TUCO INTERCHANGE 230KV #1	6/1/2007	6/1/2007		
	TUCO INTERCHANGE 230KV #2	6/1/2008	6/1/2008		

Customer Study Number  
SHDY AG2-2006-019

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
SHDY	1085305	OKGE	CSWS	320	1/8/2008	1/8/2009	1/8/2008	1/8/2009	\$ -	\$ 4,032,000	\$ -	\$ -
									\$ -	\$ 4,032,000	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	
1085305	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
1085305	LINWOOD - MCWILLIE STREET 138KV CKT 1	6/1/2007	6/1/2007

Notes:  
\*Not evaluated simultaneously with reservations 1085306 and 1085307 in study cases.

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
SHDY AG2-2006-020

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
SHDY	1085306	OKGE	GRDA	320	1/8/2008	1/8/2009	1/8/2008	1/8/2009	\$ -	\$ 9,523,200	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1085306	None					\$ -	\$ -
Total						\$ -	\$ -

Notes:  
\*Not evaluated simultaneously with reservations 1085305 and 1085307 in study cases.

Customer Study Number  
SHDY AG2-2006-021

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
SHDY	1085307	OKGE	EES	320	1/8/2008	1/8/2009	1/8/2008	1/8/2009	\$ -	\$ 3,456,000	\$ -	\$ -
									\$ -	\$ 3,456,000	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1085307	None					\$ -	\$ -
Total						\$ -	\$ -

Notes:  
\*Not evaluated simultaneously with reservations 1085305 and 1085306 in study cases.

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
SPSM AG2-2006-072

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
SPSM	1090680	CSWS	BLKW	50	10/1/2006	3/1/2012	6/1/2011	6/1/2016	\$ -	\$ 2,357,875	\$12,200,861	\$ -
									\$ -	\$ 2,357,875	\$12,200,861	\$ 284,286,582

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	
1090680	36TH & LEWIS - 52ND & DELAWARE TAP 138KV CKT 1	6/1/2011	6/1/2011			\$ 2,868	\$ 15,000	
	ALTUS JCT TAP - RUSSELL 138KV CKT 1	2/1/2011	2/1/2011			\$ 236,296	\$ 3,125,000	
	CIMARRON RIVER PLANT - NORTH CIMARRON 115KV CKT 1	6/1/2011	6/1/2011			\$ 1,421	\$ 150,000	
	FRANKLIN SW - MIDWEST TAP 138KV CKT 1	6/1/2014	6/1/2014			\$ 5,202	\$ 100,000	
	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 175,788	\$ 14,795,676	
	LAKE PAULINE - RUSSELL 138KV CKT 1	6/1/2015	6/1/2015			\$ 3,373	\$ 50,000	
	LEA COUNTY INTERCHANGE 230KV CAPACITORS	4/1/2008	4/1/2008			\$ 79,179	\$ 1,381,023	
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		Yes	\$ 4,697,992	\$ 94,396,814	
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 124,421	\$ 2,500,000	
	Potter - Roosevelt 345KV	4/1/2007	6/1/2010		No	\$ 3,527,373	\$ 38,504,390	
	RUSSELL SWITCH CAPACITOR	12/1/2011	12/1/2011			\$ 4,980	\$ 75,000	
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 179,785	\$ 31,000,000	
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 121,790	\$ 21,000,000	
	SPS MUST RUN GENERATION #2	10/1/2006	10/1/2006			\$ -	\$ -	
	SPS MUST RUN GENERATION #3	10/1/2007	10/1/2007			\$ -	\$ -	
	SPS MUST RUN GENERATION #4	6/1/2007	6/1/2007			\$ -	\$ -	
	SPS MUST RUN GENERATION #5	12/1/2008	12/1/2008			\$ -	\$ -	
	Tuco - Tolk 345kV	4/1/2007	6/1/2010		No	\$ 1,892,578	\$ 24,875,000	
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 383,762	\$ 10,318,679	
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 764,053	\$ 42,000,000	
						<b>Total</b>	<b>\$ 12,200,861</b>	<b>\$ 284,286,582</b>

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
1090680	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	Seven Rivers to Pecos to Potash Junction 230kV	6/1/2007	6/1/2009		No
	SNYDER AEPW- SNYDER WFEC INTERCONNECTION	6/1/2011	6/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No

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
1090680	Morewood Conversion	12/1/2011	6/1/2008		
	TUCO INTERCHANGE 230KV #1	6/1/2007	6/1/2007		
	TUCO INTERCHANGE 230KV #2	6/1/2008	6/1/2008		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
SPSM AG2-2006-073

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
SPSM	1090695	OKGE	EDDY	30	1/1/2007	1/1/2013	6/1/2011	6/1/2017	\$ -	\$ 3,134,160	\$ 7,632,601	\$ -
									\$ -	\$ 3,134,160	\$ 7,632,601	\$ 286,821,582

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090695	ALTUS JCT TAP - RUSSELL 138KV CKT 1	2/1/2011	2/1/2011			\$ 126,331	\$ 3,125,000
	CANADIAN - CEDAR LANE 138KV CKT 1	6/1/2014	6/1/2014			\$ 23,974	\$ 50,000
	CIMARRON RIVER PLANT - NORTH CIMARRON 115KV CKT 1	6/1/2011	6/1/2011			\$ 688	\$ 150,000
	FRANKLIN SW - MIDWEST TAP 138KV CKT 1	6/1/2014	6/1/2014			\$ 11,417	\$ 100,000
	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 111,332	\$ 14,795,676
	LAKE PAULINE - RUSSELL 138KV CKT 1	6/1/2015	6/1/2015			\$ 1,937	\$ 50,000
	LEA COUNTY INTERCHANGE 230KV CAPACITORS	4/1/2008	4/1/2008			\$ 552,925	\$ 1,381,023
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		Yes	\$ 3,165,415	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 83,833	\$ 2,500,000
	MUSTANG STATION 230/115KV TRANSFORMER CKT 1	4/1/2007	4/1/2008		Yes	\$ 65,753	\$ 2,500,000
	Potter - Roosevelt 345KV	4/1/2007	6/1/2010		No	\$ 1,137,640	\$ 38,504,390
	RUSSELL SWITCH CAPACITOR	12/1/2011	12/1/2011			\$ 2,859	\$ 75,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 101,856	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 68,999	\$ 21,000,000
	SPS MUST RUN GENERATION #3	10/1/2007	10/1/2007			\$ -	\$ -
	SPS MUST RUN GENERATION #4	6/1/2007	6/1/2007			\$ -	\$ -
	SPS MUST RUN GENERATION #5	12/1/2008	12/1/2008			\$ -	\$ -
	Tuco - Tolk 345KV	4/1/2007	6/1/2010		No	\$ 1,462,077	\$ 24,875,000
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 217,906	\$ 10,318,679
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 497,659	\$ 42,000,000
						\$ 7,632,601	\$ 286,821,582

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
1090695	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	Seven Rivers to Pecos to Potash Junction 230kV	6/1/2007	6/1/2009		Yes
	SNYDER AEPW- SNYDER WFEC INTERCONNECTION	6/1/2011	6/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No

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
1090695	Morewood Conversion	12/1/2011	6/1/2008		
	TUCO INTERCHANGE 230KV #1	6/1/2007	6/1/2007		
	TUCO INTERCHANGE 230KV #2	6/1/2008	6/1/2008		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
SPSM AG2-2006-074

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
SPSM	1090699	WPEK	KCPL	50	10/1/2006	10/1/2007	6/1/2011	6/1/2012	\$ -	\$ 528,000	\$ 5,053,527	\$ -
									\$ -	\$ 528,000	\$ 5,053,527	\$ 255,182,589

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090699	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	4/1/2007	6/1/2010		Yes	\$ 1,918	\$ 1,515,113
	GREENSBURG - JUDSON LARGE 115KV CKT 1	10/1/2006	6/1/2007		Yes	\$ 20,293	\$ 153,114
	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 99,908	\$ 14,795,676
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 67,626	\$ 4,123,803
	MEDICINE LODGE - SUN CITY 115KV CKT 1	6/1/2007	6/1/2007			\$ 15,267	\$ 100,000
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		Yes	\$ 1,512,474	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 40,056	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 318,146	\$ 5,000,000
	Potter - Roosevelt 345KV	4/1/2007	6/1/2010		No	\$ 296,225	\$ 38,504,390
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 4,944	\$ 3,200,000
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$ 107,511	\$ 3,700,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 1,401,629	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 949,490	\$ 21,000,000
	Tuco - Tolk 345kV	4/1/2007	6/1/2010		No	\$ 165,449	\$ 24,875,000
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 52,591	\$ 10,318,679
Total						\$ 5,053,527	\$ 255,182,589

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
1090699	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	12/1/2006	12/1/2008	10/1/2008	Yes
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	STULL SWITCHING STATION - TECUMSEH HILL 115KV CKT 1	10/1/2007	4/1/2008	12/1/2007	Yes

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
1090699	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		
	LACYGNE-PAOLA-WEST GARDER 345KV	6/1/2007	6/1/2008		Yes
	Morewood Conversion	12/1/2011	6/1/2008		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
SPSM AG2-2006-124

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
SPSM	1090705	WPEK	KCPL	50	10/1/2006	10/1/2007	6/1/2011	6/1/2012	\$ -	\$ 528,000	\$ 5,053,527	\$ -
									\$ -	\$ 528,000	\$ 5,053,527	\$ 255,182,589

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090705	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	4/1/2007	6/1/2010		Yes	\$ 1,918	\$ 1,515,113
	GREENSBURG - JUDSON LARGE 115KV CKT 1	10/1/2006	6/1/2007		Yes	\$ 20,293	\$ 153,114
	Hitchland 345 and 115 kV Interchange	4/1/2007	4/1/2010		No	\$ 99,908	\$ 14,795,676
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 67,626	\$ 4,123,803
	MEDICINE LODGE - SUN CITY 115KV CKT 1	6/1/2007	6/1/2007			\$ 15,267	\$ 100,000
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		Yes	\$ 1,512,474	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 40,056	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 318,146	\$ 5,000,000
	Potter - Roosevelt 345KV	4/1/2007	6/1/2010		No	\$ 296,225	\$ 38,504,390
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 4,944	\$ 3,200,000
	SEWARD - ST JOHN 115KV CKT 1	6/1/2011	6/1/2011			\$ 107,511	\$ 3,700,000
	Spearville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 1,401,629	\$ 31,000,000
	Spearville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 949,490	\$ 21,000,000
	Tuco - Tolk 345kV	4/1/2007	6/1/2010		No	\$ 165,449	\$ 24,875,000
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 52,591	\$ 10,318,679
Total						\$ 5,053,527	\$ 255,182,589

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
1090705	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	ELK CITY CAPACITOR	12/1/2011	12/1/2011		
	ELLSWORTH 230KV TAP	6/1/2011	6/1/2011		
	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	12/1/2006	12/1/2008	10/1/2008	Yes
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	STULL SWITCHING STATION - TECUMSEH HILL 115KV CKT 1	10/1/2007	4/1/2008	12/1/2007	Yes

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
1090705	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		
	LACYGNE-PAOLA-WEST GARDER 345KV	6/1/2007	6/1/2008		Yes
	Morewood Conversion	12/1/2011	6/1/2008		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
UCU AG2-2006-006

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Available	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
UCU	1052923	KCPL	MPS	160	6/1/2010	6/1/2030	6/1/2010	6/1/2030	\$ 28,800,000	\$ 61,862,400	\$ 2,694,317	\$ -
									\$ 28,800,000	\$ 61,862,400	\$ 2,694,317	\$ 10,123,803

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1052923	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 1,482,785	\$ 4,123,803
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2008	6/1/2008			\$ 1,211,532	\$ 6,000,000
<b>Total</b>						<b>\$ 2,694,317</b>	<b>\$ 10,123,803</b>

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
1052923	ANACONDA - FREEMAN 69KV CKT 1	6/1/2009	6/1/2009		
	ANACONDA - HARRISONVILLE WEST 69KV CKT 1	6/1/2009	6/1/2009		
	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2008	6/1/2008		
	EAST 20MVAR CAPACITOR	6/1/2011	6/1/2011		
	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1	12/1/2011	12/1/2011		
	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	12/1/2006	12/1/2008	10/1/2008	No
	RALPH GREEN CAPACITOR	6/1/2011	6/1/2011		
	STRANGER - THORNTON 115KV	6/1/2009	6/1/2009		

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
1052923	166TH STREET - JAGGARD JUNCTION 115KV CKT 1	6/1/2009	6/1/2009		
	166TH STREET - JARBALO JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2009	6/1/2009		
	BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1	6/1/2011	6/1/2011		
	STRANGER CREEK - NW LEAVENWORTH 115KV	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
1052923	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
UCU AG2-2006-071

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
UCU	1090573	EES	MPS	100	6/1/2010	6/1/2040	6/1/2010	6/1/2040	\$ -	\$ 57,996,000	\$ 2,902,555	\$ -
UCU	1090578	EES	MPS	50	6/1/2010	6/1/2040	6/1/2010	6/1/2040	\$ -	\$ 28,998,000	\$ 1,451,257	\$ -
									\$ -	\$ 86,994,000	\$ 4,353,812	\$ 83,777,608

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1090573	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	6/1/2009	6/1/2009			\$ 480,076	\$ 6,000,000
	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2010	6/1/2010			\$ 168,461	\$ 2,500,000
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2010	6/1/2010			\$ 33,692	\$ 500,000
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	6/1/2014	6/1/2014			\$ 731,909	\$ 9,200,000
	CRESWELL - NEWKIRK 138KV CKT 1	6/1/2011	6/1/2011			\$ 159,029	\$ 4,740,000
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1	6/1/2007	6/1/2009	10/1/2007	No	\$ 774,179	\$ 9,000,000
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2011	6/1/2011			\$ 27,760	\$ 325,000
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 54,340	\$ 4,123,803
	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1	6/1/2010	6/1/2010			\$ 473,109	\$ 5,500,000
					Total	\$ 2,902,555	\$ 41,888,803
1090578	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	6/1/2009	6/1/2009			\$ 240,023	\$ 6,000,000
	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2010	6/1/2010			\$ 84,226	\$ 2,500,000
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2010	6/1/2010			\$ 16,845	\$ 500,000
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	6/1/2014	6/1/2014			\$ 365,955	\$ 9,200,000
	CRESWELL - NEWKIRK 138KV CKT 1	6/1/2011	6/1/2011			\$ 79,510	\$ 4,740,000
	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1	6/1/2007	6/1/2009	10/1/2007	No	\$ 387,090	\$ 9,000,000
	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1	6/1/2011	6/1/2011			\$ 13,881	\$ 325,000
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 27,172	\$ 4,123,803
	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1	6/1/2010	6/1/2010			\$ 236,555	\$ 5,500,000
					Total	\$ 1,451,257	\$ 41,888,803

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
1090573	ANACONDA - FREEMAN 69KV CKT 1	6/1/2009	6/1/2009		
	ANACONDA - HARRISONVILLE WEST 69KV CKT 1	6/1/2009	6/1/2009		
	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2008	6/1/2008		
	EAST 20MVAR CAPACITOR	6/1/2011	6/1/2011		
	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1	12/1/2011	12/1/2011		
	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	12/1/2006	12/1/2008	10/1/2008	No
	RALPH GREEN CAPACITOR	6/1/2011	6/1/2011		
1090578	ANACONDA - FREEMAN 69KV CKT 1	6/1/2009	6/1/2009		
	ANACONDA - HARRISONVILLE WEST 69KV CKT 1	6/1/2009	6/1/2009		
	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2008	6/1/2008		
	EAST 20MVAR CAPACITOR	6/1/2011	6/1/2011		
	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1	12/1/2011	12/1/2011		
	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	12/1/2006	12/1/2008	10/1/2008	No
	RALPH GREEN CAPACITOR	6/1/2011	6/1/2011		

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
1090573	BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1	6/1/2011	6/1/2011		
1090578	BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1	6/1/2011	6/1/2011		



**Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade**

**Customer Study Number**  
 WRGS AG2-2006-015

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
WRGS	1076157	KCPL	AECI	30	6/1/2010	6/1/2015	6/1/2010	6/1/2015	\$ -	\$ 1,620,000	\$ 407,442	\$ -
									\$ -	\$ 1,620,000	\$ 407,442	\$ 10,123,803

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1076157	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 223,814	\$ 4,123,803
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2008	6/1/2008			\$ 183,628	\$ 6,000,000
<b>Total</b>						<b>\$ 407,442</b>	<b>\$ 10,123,803</b>

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
1076157	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	6/1/2010	6/1/2010		
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	6/1/2010	6/1/2010		
	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1	12/1/2011	12/1/2011		
	STRANGER - THORNTON 115KV	6/1/2009	6/1/2009		

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
1076157	166TH STREET - JAGGARD JUNCTION 115KV CKT 1	6/1/2009	6/1/2009		
	166TH STREET - JARBALO JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2009	6/1/2009		
	STRANGER CREEK - NW LEAVENWORTH 115KV	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
1076157	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		

**Customer Study Number**  
 WRGS AG2-2006-016

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
WRGS	1076158	KCPL	AMRN	20	6/1/2010	6/1/2015	6/1/2010	6/1/2015	\$ -	\$ 1,080,000	\$ 271,621	\$ -
									\$ -	\$ 1,080,000	\$ 271,621	\$ 10,123,803

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1076158	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 149,209	\$ 4,123,803
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2008	6/1/2008			\$ 122,412	\$ 6,000,000
<b>Total</b>						<b>\$ 271,621</b>	<b>\$ 10,123,803</b>

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
1076158	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	6/1/2010	6/1/2010		
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	6/1/2010	6/1/2010		
	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1	12/1/2011	12/1/2011		
	STRANGER - THORNTON 115KV	6/1/2009	6/1/2009		

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
1076158	166TH STREET - JAGGARD JUNCTION 115KV CKT 1	6/1/2009	6/1/2009		
	166TH STREET - JARBALO JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2009	6/1/2009		
	STRANGER CREEK - NW LEAVENWORTH 115KV	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
1076158	IATAN - ST JOE 345KV CKT 1	6/1/2011	4/1/2007		

Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade

Customer Study Number  
WRGS AG2-2006-030

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Deferred Stop Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Total Allocated Cost	Total Cost
WRGS	1086655	OKGE	WR	225	10/1/2006	10/1/2026	6/1/2011	6/1/2031	\$ 40,500,000	\$ -	\$30,496,115	\$ -
WRGS	1086656	OKGE	WR	75	10/1/2006	10/1/2026	6/1/2011	6/1/2031	\$ 13,500,000	\$ -	\$10,165,414	\$ -
									\$ 54,000,000	\$ -	\$40,661,529	\$ 577,427,882

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost
1086655	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	6/1/2009	6/1/2009			\$ 3,001,584	\$ 6,000,000
	CHEROKEE PL TAP - CHILOCCO 69KV CKT 1	6/1/2016	6/1/2016			\$ 262,500	\$ 350,000
	CHEROKEE PL TAP - CONTINENTAL BLACKS 69KV CKT 1	6/1/2014	6/1/2014			\$ 471,000	\$ 628,000
	COFFEYVILLE SUB - DEARING 69KV CKT 1	4/1/2007	1/1/2008	6/1/2007	Yes	\$ 382,500	\$ 510,000
	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2010	6/1/2010			\$ 1,178,177	\$ 2,500,000
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2010	6/1/2010			\$ 235,635	\$ 500,000
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	6/1/2014	6/1/2014			\$ 4,586,365	\$ 9,200,000
	CONTINENTAL BLACKS - OSAGE 69KV CKT 1	6/1/2010	6/1/2010			\$ 150,002	\$ 200,000
	CRESWELL - NEWKIRK 138KV CKT 1	6/1/2011	6/1/2011			\$ 1,584,699	\$ 4,740,000
	CRESWELL (CRESWL2X) 138/69/13.2KV TRANSFORMER CKT 1	6/1/2007	4/1/2009	10/1/2008	Yes	\$ 690,700	\$ 4,000,000
	EEC - COWSKIN 138KV	6/1/2010	6/1/2010			\$ 5,044,480	\$ 10,000,000
	FRANKLIN SW - MIDWEST TAP 138KV CKT 1	6/1/2014	6/1/2014			\$ 52,712	\$ 100,000
	GILL ENERGY CENTER EAST - INTERSTATE 138KV CKT 1	6/1/2011	6/1/2011			\$ 15,000	\$ 20,000
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 336,944	\$ 4,123,803
	LAWRENCE HILL (LAWHL29X) 230/115/13.8KV TRANSFORMER CKT 1	6/1/2016	6/1/2016			\$ 710,504	\$ 2,250,000
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		No	\$ 1,597,759	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 42,315	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 395,167	\$ 5,000,000
	REPLACE HOOVER BREAKER	6/1/2010	6/1/2010			\$ 74,999	\$ 100,000
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER	6/1/2007	4/1/2008	10/1/2007	Yes	\$ 1,173,864	\$ 4,000,000
	Speerville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 1,678,836	\$ 31,000,000
	Speerville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 1,137,276	\$ 21,000,000
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2008	6/1/2008			\$ 1,896,023	\$ 6,000,000
	Tex-Hitchland-Sherman Tap 115 kV ckt	4/1/2007	4/1/2010		No	\$ 63,805	\$ 2,401,645
	Tuco - Tolk 345KV	4/1/2007	6/1/2010		No	\$ 376,586	\$ 24,875,000
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 120,684	\$ 10,318,679
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 3,235,999	\$ 42,000,000
					Total	\$ 30,496,115	\$ 288,713,941
1086656	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	6/1/2009	6/1/2009			\$ 1,000,518	\$ 6,000,000
	CHEROKEE PL TAP - CHILOCCO 69KV CKT 1	6/1/2016	6/1/2016			\$ 87,500	\$ 350,000
	CHEROKEE PL TAP - CONTINENTAL BLACKS 69KV CKT 1	6/1/2014	6/1/2014			\$ 157,000	\$ 628,000
	COFFEYVILLE SUB - DEARING 69KV CKT 1	4/1/2007	1/1/2008	6/1/2007	Yes	\$ 127,500	\$ 510,000
	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	6/1/2010	6/1/2010			\$ 392,720	\$ 2,500,000
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	6/1/2010	6/1/2010			\$ 78,544	\$ 500,000
	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	6/1/2014	6/1/2014			\$ 1,528,788	\$ 9,200,000
	CONTINENTAL BLACKS - OSAGE 69KV CKT 1	6/1/2010	6/1/2010			\$ 49,998	\$ 200,000
	CRESWELL - NEWKIRK 138KV CKT 1	6/1/2011	6/1/2011			\$ 528,230	\$ 4,740,000
	CRESWELL (CRESWL2X) 138/69/13.2KV TRANSFORMER CKT 1	6/1/2007	4/1/2009	10/1/2008	Yes	\$ 230,245	\$ 4,000,000
	EEC - COWSKIN 138KV	6/1/2010	6/1/2010			\$ 1,681,462	\$ 10,000,000
	FRANKLIN SW - MIDWEST TAP 138KV CKT 1	6/1/2014	6/1/2014			\$ 17,571	\$ 100,000
	GILL ENERGY CENTER EAST - INTERSTATE 138KV CKT 1	6/1/2011	6/1/2011			\$ 5,000	\$ 20,000
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 112,314	\$ 4,123,803
	LAWRENCE HILL (LAWHL29X) 230/115/13.8KV TRANSFORMER CKT 1	6/1/2016	6/1/2016			\$ 236,855	\$ 2,250,000
	Mooreland - TUCO 345 kV SPS	4/1/2007	6/1/2010		No	\$ 532,620	\$ 94,396,814
	Mooreland - TUCO 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 14,106	\$ 2,500,000
	Mooreland 345/138 kV Transformer	4/1/2007	6/1/2010		No	\$ 131,725	\$ 5,000,000
	REPLACE HOOVER BREAKER	6/1/2010	6/1/2010			\$ 25,001	\$ 100,000
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER	6/1/2007	4/1/2008	10/1/2007	Yes	\$ 391,288	\$ 4,000,000
	Speerville - Mooreland 345 kV SUNC	4/1/2007	6/1/2010		No	\$ 559,616	\$ 31,000,000
	Speerville - Mooreland 345 kV WFEC	4/1/2007	6/1/2010		No	\$ 379,094	\$ 21,000,000
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2008	6/1/2008			\$ 632,021	\$ 6,000,000
	Tex-Hitchland-Sherman Tap 115 kV ckt	4/1/2007	4/1/2010		No	\$ 21,262	\$ 2,401,645
	Tuco - Tolk 345KV	4/1/2007	6/1/2010		No	\$ 125,529	\$ 24,875,000
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2010		No	\$ 40,232	\$ 10,318,679
	WICHITA - RENO 345KV	10/1/2006	6/1/2011		Yes	\$ 1,078,675	\$ 42,000,000
					Total	\$ 10,165,414	\$ 288,713,941

**Table 2 - Additional Details for Each Request Including All Facility Upgrades Required and Allocated Costs for Each Upgrade**

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
1086655	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	DEARING (DEARIN1X) 138/69/13.2KV TRANSFORMER CKT 1	12/1/2011	12/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	STRANGER - THORNTON 115KV	6/1/2009	6/1/2009		
1086656	CARTER JCT CAPACITOR	6/1/2011	6/1/2011		
	DEARING (DEARIN1X) 138/69/13.2KV TRANSFORMER CKT 1	12/1/2011	12/1/2011		
	ST JOHN CAPACITOR	6/1/2007	6/1/2008		No
	STRANGER - THORNTON 115KV	6/1/2009	6/1/2009		

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
1086655	JAGGARD JUNCTION - PENTAGON 115KV CKT 1	6/1/2009	6/1/2009		
	STRANGER CREEK - NW LEAVENWORTH 115KV	6/1/2009	6/1/2009		
1086656	JAGGARD JUNCTION - PENTAGON 115KV CKT 1	6/1/2009	6/1/2009		
	STRANGER CREEK - NW LEAVENWORTH 115KV	6/1/2009	6/1/2009		

Upgrades required for Additional 100 MW Transfer Modeled from OKGE to WR at customer's request for compliance purposes with FERC Order in Docket EC06-48

Reservation	Upgrade Name	COD	EOC
1086655	KILDARE - WHITE EAGLE	6/1/2016	6/1/2016
1086656	KILDARE - WHITE EAGLE	6/1/2016	6/1/2016

Notes:

Modeling of request 1086656 assumes New Designated Network Resource no longer Designated Network Resource for OMPA Network Load in OKGE

**Table 3 - Upgrade Requirements and Solutions Needed to Provide Transmission Service for the Aggregate Study**

Transmission Owner	Upgrade	Solution	Minimum ATC per Upgrade (MW)	Season of Minimum Allocated ATC	Earliest Date Upgrade Required (COD)	Estimated Date of Upgrade Completion (EOC)	Total Cost
AEPW	36TH & LEWIS - 52ND & DELAWARE TAP 138KV CKT 1	Reset Relays @ 36th & Lewis	251	16SP	6/1/2011	6/1/2011	\$ 15,000
AEPW	BANN - NW TEXARKANA-BANN T 138KV CKT 1	Reset Bann Relay	0	16SP	6/1/2011	6/1/2011	\$ 20,000
AEPW	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1	Rebuild 8.37 miles of 795 ACSR with 1590 ACSR & reset relays @ BSE	79	16SP	6/1/2009	6/1/2009	\$ 6,000,000
AEPW	BROKEN BOW - CRAIG JUNCTION 138KV CKT 1	Rebuild 7.66 miles of 3/0 CW CUJ with 795 ACSR	0	07G	12/1/2006	6/1/2008	\$ 4,000,000
AEPW	CLINTON CITY - THOMAS TAP 69KV CKT 1	Rebuild 13.9 miles of 4/0 ACSR with 795 ACSR	0	16SP	6/1/2013	6/1/2013	\$ 7,000,000
AEPW	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW	Tie Line, Rebuild 3.93 miles of 795 ACSR with 1590 ACSR.	51	11SP	6/1/2010	6/1/2010	\$ 2,500,000
AEPW	COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1	Rebuild 13.11 miles of 795 ACSR with 1590 ACSR.	199	16SP	6/1/2014	6/1/2014	\$ 9,200,000
AEPW	DANVILLE (APL) - MAGAZINE REC 161KV CKT 1	Reconductor 17.96 miles of 250 Coppenweld with 795 ACSR.	0	11SP	6/1/2007	6/1/2009	\$ 9,000,000
AEPW	ELDORADO - LAKE PAULINE 69KV CKT 1	Upgrade Terminal Equipment at Lake Pauline Cts	0	16SP	6/1/2013	6/1/2013	\$ 100,000
AEPW	HOBART JUNCTION - TAMARAC TAP 138KV CKT 1	Replace Hobart Jct. Wavetrap	0	16SP	6/1/2013	6/1/2013	\$ 100,000
AEPW	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1	Rebuild 7.43 miles of 250 CWC with 795 ACSR	0	11SP	6/1/2010	6/1/2010	\$ 5,500,000
AEPW	SOUTHWEST SHREVEPORT - SOUTHWEST SHREVEPORT TAP 138KV CKT 1	Rebuild 2.29 miles of 2-397.5 ACSR with 1590 ACSR.	746	11SP	6/1/2009	6/1/2009	\$ 1,300,000
AEPW	THOMAS TAP - WEATHERFORD 69KV CKT 1	Rebuild 0.9 miles of 4/0 ACSR with 795 ACSR. Replace Weatherford wavetrap.	0	16SP	6/1/2011	6/1/2011	\$ 450,000
AEPW	WEATHERFORD - WEATHERFORD SOUTHEAST 69KV CKT 1	Replace weatherford switch and reset relays @ Weatherford SE.	0	16SP	6/1/2016	6/1/2016	\$ 125,000
CELE	CLARENCE - MONTGOMERY 230KV CKT 1	Bundle Clarence to Montgomery 230 kv	408	11SP	6/1/2011	6/1/2011	\$ 2,200,000
EMDE	SUB 271 - BAXTER SPRINGS WEST - SUB 404 - HOCKERVILLE 69KV CKT 1	Change CT setting on Breaker #6973 at Baxter #271	6	11WP	12/1/2011	12/1/2011	\$ 10,000
EMDE	SUB 389 - JOPLIN SOUTHWEST - SUB 422 - JOPLIN 24TH & CONNECTICUT 161KV CKT 1	Change CT Ratio at Sub #389 on Breaker #16170 for 268 MVA Rate B	0	08SP	6/1/2008	6/1/2008	\$ 15,000
GRDA	KANSAS TAP - WEST SILOAM SPRINGS 161KV CKT 1	Rebuild line to 1590 ACSR	0	16SP	6/1/2016	6/1/2016	\$ 2,244,000
GRDA	SILOAM CITY - WEST SILOAM SPRINGS 161KV CKT 1	Rebuild line to 1590 ACSR	15	16SP	6/1/2016	6/1/2016	\$ 1,071,000
KACP	CROSTOWN - NEAST 161KV CKT 1	Add series reactor at Crostown	102	16SP	6/1/2015	6/1/2015	\$ 650,000
KACP	IATAN - STRANGER CREEK 345KV CKT 2	Convert Iatan-Stranger Creek 161kv line to 345kv	490	11SP	6/1/2011	6/1/2011	\$ 4,123,803
MIDW	KNOLL 230/115KV TRANSFORMER CKT 2	Install 2nd 230/115kv Transformer at Knoll	13	16SP	6/1/2008	1/1/2009	\$ 3,000,000
OKGE	CANADIAN - CEDAR LANE 138KV CKT 1	Replace 800A trap at Cedar Lane	0	16SP	6/1/2014	6/1/2014	\$ 50,000
OKGE	CHEROKEE PL TAP - CHILOCCO 69KV CKT 1	Reconstruct and replace .7 miles of 477AS33 conductor with 795AS33.	271	16SP	6/1/2016	6/1/2016	\$ 350,000
OKGE	CHEROKEE PL TAP - CONTINENTAL BLACKS 69KV CKT 1	Reconstruct and replace 1.54 miles of 477AS33 conductor with 795AS33.	100	16SP	6/1/2014	6/1/2014	\$ 628,000
OKGE	CONTINENTAL BLACKS - OSAGE 69KV CKT 1	Rebuild & Reconductor 0.57 Miles of 477AS33 to 477 ACCC/TW	0	16SP	6/1/2010	6/1/2010	\$ 200,000
OKGE	CRESWELL - NEWKIRK 138KV CKT 1 OKGE	OGE rebuild 11.5 miles of line to 795AS33 conductor, OGEs portion of this line would be rated at a summer rate B of the conductor limit at 308Mva. Next limit is WR disconnect switches and bus at 287MVA.	336	11SP	6/1/2011	6/1/2011	\$ 4,500,000
OKGE	KILDARE - WHITE EAGLE	Indeterminate	N/A	N/A	6/1/2016	6/1/2016	\$ -
SPS	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	Upgrade Roosevelt to Curry 115 kv circuit w/795 ACSR	0	07G	4/1/2007	6/1/2010	\$ 1,515,113
SPS	Hart Interchange 115/69 kv	New 115/69 kv Hart Intg with Lamton to Castro Co 69 kv ckt, 40 MVA auto Move Normally Open 69 kv Point South of Hart	365	16SP	6/1/2016	6/1/2016	\$ 3,500,000
SPS	Hitchland 345 and 115 kv Interchange	Three breaker 345 kv bus, 345/115 kv transformer, five 115 kv breakers.	0	07G	4/1/2007	4/1/2010	\$ 14,795,676
SPS	LEA COUNTY INTERCHANGE 230KV CAPACITORS	Install 2 - 50 MVar capacitor banks on the 230 kv bus at Lea County Interchange	0	11SP	4/1/2008	4/1/2008	\$ 1,381,023
SPS	MEC to SPP Contract Path Capacity	Firm Contract Path Capacity Between MEC and SPP Sold out, New Interconnection and Costs Indeterminate.	0	07SP	1/1/2007	1/1/2009	\$ -
SPS	MIDWAY 69 kv STATCOM	Install 18 MVAR STATCOM at SPS Midway 69 kv	0	11WP	6/1/2007	6/1/2008	\$ 3,000,000
SPS	Mooreland - TUOCO 345 kv SPS	New 345 kv line from Tuco to Mooreland on wooden h-frame structures.	0	07G	4/1/2007	6/1/2010	\$ 94,396,814
SPS	MUSTANG STATION 230/115KV TRANSFORMER CKT 1	Expedite SPS Planned Upgrade with 6/1/2009 inservice date to install 252 MVA Transformer for GSEC Mustang 4 DNR to 6/1/2008	0	07SP	4/1/2007	4/1/2008	\$ 2,500,000
SPS	Potter - Roosevelt 345KV	New 345 kv circuit from Potter - Roosevelt 2-795 ACSR & 345/230 kv 560 MVA transformer	0	07G	4/1/2007	6/1/2010	\$ 38,504,390
SPS	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	Add 2nd transformer 230/115 kv 252 MVA	0	07G	4/1/2007	6/1/2010	\$ 3,200,000
SPS	SOUTH PLAINS ALCOVE Interconnection	New Delivery Point Interconnection costs indeterminate.	0	16SP	3/1/2009	3/1/2009	\$ -
SPS	SOUTH PLAINS MILWAUKEE Interconnection	New Delivery Point Interconnection costs indeterminate.	0	16SP	3/1/2013	3/1/2013	\$ -
SPS	SOUTH PLAINS SLIDE Interconnection	New Delivery Point Interconnection costs indeterminate.	0	16SP	3/1/2016	3/1/2016	\$ -
SPS	SOUTH PLAINS WOLFFORTH Interconnection	New Delivery Point Interconnection costs indeterminate.	0	16SP	3/1/2011	3/1/2011	\$ -
SPS	SPS MUST RUN GENERATION #2	SPS Voltage Instability for Tolk to Eddy 345 kv outage due to Scheduled Cunningham Outage and either High Wind Generation Level or Import Level in 2006 Fall Peak MUST Run Cunningham and Maddox Generation in order to not exceed approximately 225 MW of Flow	0	06FA	10/1/2006	10/1/2006	\$ -
SPS	SPS MUST RUN GENERATION #3	SPS Voltage Instability for Tolk to Eddy 345 kv outage due to Scheduled Cunningham Outage and either High Wind Generation Level or Import Level in 2007 Fall Peak MUST Run Cunningham and Maddox Generation in order to not exceed approximately 225 MW of Flow	0	07FA	10/1/2007	10/1/2007	\$ -
SPS	SPS MUST RUN GENERATION #4	SPS Voltage Instability for Tolk to Eddy 345 kv outage due to High Wind Generation Level and/or Import Level in 2007 Summer Shoulder MUST Run Cunningham and Maddox Generation in order to not exceed approximately 225 MW of Flow on Tolk to Eddy 345 kv line.	0	07SH	6/1/2007	6/1/2007	\$ -
SPS	SPS MUST RUN GENERATION #5	Must Run Requirement of Cunningham #2 and Maddox #1 to prevent Voltage Collapse in Winter Peaks for the Tolk to Eddy 345 kv line outage	0	08WP	12/1/2008	12/1/2008	\$ -
SPS	Tex-Hitchland-Sherman Tap 115 kv ckt	Route Sherman Tap to Texas Co in/out of New Hitchland Interchange	0	07G	4/1/2007	4/1/2010	\$ 2,401,645
SPS	Tuco - Tolk 345kv	Build new 345kv line from Tuco to Tolk	0	07G	6/1/2010	6/1/2010	\$ 24,875,000
SPS	TUOCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	Install 345/115 kv Transformer at Tuco	0	07G	4/1/2007	6/1/2010	\$ 10,318,679
SPS	YOAKUM COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	Upgrade Transformer 230/115 kv 252 MVA	0	16SP	6/1/2007	6/1/2007	\$ 2,500,000
SPS	Bailey County - Curry County 115 kv	New 115 kv 397 ACSR circuit between Bailey and Curry.	0	11SP	6/1/2011	6/1/2011	\$ 10,648,185
SPS	BAILEY COUNTY PROGRESS Interconnection #1	New Delivery Point will require a dual winding transformer for 69 to 115 kv conversion Interconnection costs indeterminate.	0	07G	3/1/2007	3/1/2007	\$ -
SPS	BAILEY COUNTY PROGRESS Interconnection #2	Move BAILEY COUNTY PROGRESS Interconnection on 115 kv Line from Bailey County to Curry County Cost Indeterminate.	0	11SP	6/1/2011	6/1/2011	\$ -
SPS	BAILEY COUNTY SUNNYSIDE Interconnection #1	New Delivery Point Interconnection costs indeterminate.	0	07FA	10/1/2007	6/1/2006	\$ -
SPS	BAILEY COUNTY SUNNYSIDE Interconnection #2	Install 7.2 MVAR Capacitor at BAILEY COUNTY SUNNYSIDE Interconnection	0	08SP	6/1/2008	6/1/2008	\$ 200,000
SPS	RITA BLANCA Masterson (EXELL) Interconnection	New Delivery Point Interconnection costs indeterminate.	0	06FA	10/1/2006	10/1/2006	\$ -
SPS	RITA BLANCA RITA (Sherman) Interconnection	New Delivery Point Interconnection costs indeterminate.	0	07SP	9/1/2007	9/1/2007	\$ -
SPS	TRI COUNTY HILLER Interconnection	New Delivery Point Interconnection costs indeterminate.	0	07SP	7/1/2007	7/1/2007	\$ -
SPS	TRI COUNTY PRAIRIE Interconnection #1	New Delivery Point Interconnection costs indeterminate.	0	07SP	7/1/2007	7/1/2007	\$ -
SPS	TRI COUNTY PRAIRIE Interconnection #2	Move Texas County Phase Shifter to TRI COUNTY PRAIRIE Interconnection	0	07SP	7/1/2007	6/1/2008	\$ 2,000,000
SUNC	CIMARRON RIVER PLANT - NORTH CIMARRON 115KV CKT 1	Reconductor North Cimarron to Cimarron Plant	621	11WP	6/1/2011	6/1/2011	\$ 150,000

**Table 3 - Upgrade Requirements and Solutions Needed to Provide Transmission Service for the Aggregate Study**

SUNC	NORTH CIMARRON 24MVAR CAPACITOR	Install 24 MVAR Capacitor bank at North Cimarron 56455	72	11SP		6/1/2011	6/1/2011	\$ 1,400,000
SUNC	Spearville - Mooreland 345 kV SUNC	New 345 kV line from Spearville to Kansas/Oklahoma Stateline	0	07G		4/1/2007	6/1/2010	\$ 31,000,000
SWPA	BEAVER - EUREKA SPRINGS 161KV CKT 1	Tie Line, Replace Switch & Jumpers @ Eureka Springs.	0	16SP		6/1/2016	6/1/2016	\$ 41,000
SWPA	DARDANELLE - RUSSELLVILLE SOUTH 161KV CKT 1	Replace wave trap, disconnect switches, current transformers, and breaker. Bus will limit rating to 1340 amps.	1172	16SP		6/1/2011	6/1/2011	\$ 325,000
WEPL	CLAY CENTER - GREENLEAF 115KV CKT 1	Building a new 115 kV tie with Westar from Greenleaf to Clay Center	300	16SP		6/1/2011	6/1/2011	\$ 7,520,000
WEPL	GREENSBURG - JUDSON LARGE 115KV CKT 1	Replace relaying	0	07SP		10/1/2006	6/1/2007	\$ 153,114
WEPL	MEDICINE LODGE - SUN CITY 115KV CKT 1	Upgrade CTs and Wave Trap Limits	0	07SP		6/1/2007	6/1/2007	\$ 100,000
WEPL	PLAINVILLE CAPACITOR	Install 12mvar capacitor at plainville	0	07SP		6/1/2007	1/1/2008	\$ 1,184,639
WEPL	SEWARD - ST JOHN 115KV CKT 1	Rebuild Seward - St John 115kV Line	842	16SP		6/1/2011	6/1/2011	\$ 3,700,000
WERE	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1	Rebuild 7.61 miles from 95th & Waverly-Captain Junction 115 kV line.	0	16SP		6/1/2008	6/1/2008	\$ 2,580,000
WERE	ARKANSAS CITY - PARIS 69KV CKT 1	Tear down / rebuild 1.67-mile line, 954 kcmil ACSR	11	16SP		6/1/2011	6/1/2011	\$ 600,000
WERE	ARKANSAS CITY - SUMNER COUNTY NO. 5 SILVERDALE 69KV CKT 1	Breaker, Disconnect, CT, and Jumper	181	16SP		6/1/2011	6/1/2011	\$ 150,000
WERE	CITY OF WELLINGTON - SUMNER COUNTY NO. 4 ROME 69KV CKT 1	Tear down / Rebuild 9.1-mile line	99	11SP		6/1/2007	1/1/2008	\$ 3,550,000
WERE	CITY OF WINFIELD - RAINBOW 69KV CKT 1	Rainbow-Winfield line	127	16SP		6/1/2011	6/1/2011	\$ 1,560,000
WERE	CITY OF WINFIELD - TIMBER JUNCTION 69KV CKT 1	Rebuild 14.63-mile Timber Tap-Winfield 69 kV line, 954 ACSR	149	11SP		6/1/2010	6/1/2010	\$ 4,960,000
WERE	COFFEYVILLE SUB - DEARING 69KV CKT 1	Replace line switches and Cts/Rebuild 1.13-mile section of Coffeyville city-Dearing 69 kV line.	0	07AP		4/1/2007	1/1/2008	\$ 510,000
WERE	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE	Rebuild line using 1590 ACSR, WERE portion is 1.09 miles	51	11SP		6/1/2010	6/1/2010	\$ 500,000
WERE	COUNTY LINE - HOOK JCT 115KV CKT 1	Tear down / rebuild 4.04-mile County Line-TEC 115 kV line, 1192 ACSR	0	11SP		6/1/2011	6/1/2011	\$ 1,400,000
WERE	CRESWELL - NEWKIRK 138KV CKT 1 WERE	Rebuild Creswell-Newkirk 138	336	11SP		6/1/2011	6/1/2011	\$ 4,740,000
WERE	CRESWELL - OAK 69KV CKT 1	Replace jumpers and bus, and reset CTs and relaying. Rebuild substations.	73	16SP		6/1/2011	6/1/2011	\$ 250,000
WERE	CRESWELL - SUMNER COUNTY NO. 4 ROME 69KV CKT 1	Rebuild 9.43 mile Creswell-SC4 Rome as a 138 kV line but operate at 69 kV.	147	11SP		6/1/2007	1/1/2008	\$ 3,200,000
WERE	CRESWELL (CRESWL1X) 138/69/13.2KV TRANSFORMER CKT 1	Replace transformers	106	16SP		6/1/2011	6/1/2011	\$ 4,000,000
WERE	CRESWELL (CRESWL2X) 138/69/13.2KV TRANSFORMER CKT 1	Replace transformers	254	16SP		6/1/2007	4/1/2009	\$ 4,000,000
WERE	EEC - COWSKIN 138KV	EEC - COWSKIN 138KV	0	16SP		6/1/2010	6/1/2010	\$ 10,000,000
WERE	GILL ENERGY CENTER EAST - GILLJCT269.0 69KV CKT 1	Rebuild Gill-Gill Jct	0	07SP		6/1/2007	2/1/2008	\$ 1,500,000
WERE	GILL ENERGY CENTER EAST - INTERSTATE 138KV CKT 1	Replace wave trap	0	16SP		6/1/2011	6/1/2011	\$ 20,000
WERE	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1	Rebuild 4.04-mile County Line-TEC 115 kV line, 1192.5 ACSR	0	16SP		6/1/2011	6/1/2011	\$ 1,400,000
WERE	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	Tear down / Rebuild HEC-Huntsville 115 kV	567	16SP		6/1/2014	6/1/2014	\$ 7,300,000
WERE	HUNTSVILLE - ST JOHN 115KV CKT 1	Tear down / Rebuild HEC-Huntsville 115 kV	568	16SP		6/1/2014	6/1/2014	\$ 6,500,000
WERE	LAWRENCE HILL - WREN 115KV CKT 1	Rebuild 3.43 mile Lawrence Hill-Wren 115 kV line.	0	16SP		6/1/2010	6/1/2010	\$ 1,200,000
WERE	LAWRENCE HILL (LAWHL29X) 230/115/13.8KV TRANSFORMER CKT 1	Install second Lawrence Hill 230-115 kV transformer.	324	16SP		6/1/2016	6/1/2016	\$ 2,250,000
WERE	MOCKINGBIRD HILL SWITCHING STATION - STULL SWITCHING STATION 115KV CKT 1	Tear down and rebuild 6.40 mile Mockingbird-Stull Tap 115 kV line.	0	11SP		6/1/2011	6/1/2011	\$ 2,200,000
WERE	OAK - RAINBOW 69KV CKT 1	Oak-Rainbow rebuild	116	16SP		6/1/2011	6/1/2011	\$ 1,800,000
WERE	PRAIRIELAND JCT - SUMNER COUNTY NO. 5 SILVERDALE 69KV CKT 1	Replace Disconnect switches	247	16SP		6/1/2011	6/1/2011	\$ 50,000
WERE	REPLACE HOOVER BREAKER	REPLACE HOOVER BREAKER	0	16SP		6/1/2010	6/1/2010	\$ 100,000
WERE	RICHLAND - ROSE HILL JUNCTION 69KV CKT 1	Rebuild 5.43 mile Rose Hill Junction-Richland as a 138 kV line but operate at 69 kV.	0	11SP		12/1/2006	3/1/2008	\$ 1,900,000
WERE	RICHLAND - UDALL 69KV CKT 1	Richland-Udall rebuild	32	11SP		6/1/2011	6/1/2011	\$ 2,900,000
WERE	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER	Add third 345-138 kV transformer at Rose Hill	0	16SP		6/1/2007	4/1/2008	\$ 4,000,000
WERE	SOUTHWEST LAWRENCE - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT 1	Rebuild 4.09 mile SW Lawrence-Wakarusa 115 kV line	0	16SP		6/1/2007	3/1/2008	\$ 1,400,000
WERE	STRANGER CREEK TRANSFORMER CKT 2	2nd STRA 345-115	0	16SP		6/1/2008	6/1/2008	\$ 6,000,000
WERE	TIMBER JUNCTION - UDALL 69KV CKT 1	Udall-Timber rebuild	94	11SP		6/1/2011	6/1/2011	\$ 700,000
WERE	WICHITA - RENO 345KV	Build 345kV from Wichita to Reno Co	0	06FA		10/1/2006	6/1/2011	\$ 42,000,000
WFEC	ALTUS JCT TAP - RUSSELL 138KV CKT 1	Reconductor 12.5 miles from 336 to 795 ACSR	0	11WP		2/1/2011	2/1/2011	\$ 3,125,000
WFEC	ELDORADO - ELDORADO JCT 69KV CKT 1	Rebuild 1/0 to 336 ACSR - 11.5 miles	3	16SP		6/1/2014	6/1/2014	\$ 2,600,000
WFEC	ELDORADO JCT - GYPSUM 69KV CKT 1	Rebuild 1/0 to 336 ACSR - 8.0 miles	0	16SP		6/1/2014	6/1/2014	\$ 1,800,000
WFEC	FRANKLIN SW - MIDWEST TAP 138KV CKT 1	Replace switches and wavetrap at Franklin Switch to 2000A	0	16SP		6/1/2014	6/1/2014	\$ 100,000
WFEC	FT SUPPLY - WOODWARD 69KV CKT 1	Reconductor 18.0 miles from 336 to 795 ACSR	62	07FA		10/1/2007	2/1/2008	\$ 4,500,000
WFEC	FT SUPPLY 138/69KV TRANSFORMER CKT 1	Install 2nd 70 MVA auto at Ft Supply	62	07FA		6/1/2007	6/1/2008	\$ 1,500,000
WFEC	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	Terminal Upgrade at Mooreland (CTS)	78	08SP		6/1/2008	6/1/2008	\$ 50,000
WFEC	GYPSUM - RUSSELL 69KV CKT 1	Reconductor 1/0 to 336 ACSR - 3.1 miles	0	16SP		6/1/2013	6/1/2013	\$ 700,000
WFEC	HAMON BUTLER - MOREWOOD 69KV CKT 1	Reconductor 1/0 to 336 ACSR - 15.0 miles	0	07WP		6/1/2007	6/1/2007	\$ 3,400,000
WFEC	LAKE PAULINE - RUSSELL 138KV CKT 1	Upgrade Terminal Equipment (Adjust CT's)	484	16SP		6/1/2015	6/1/2015	\$ 50,000
WFEC	Mooreland - TUCO 345 kv WFEC	345 kV line Terminal	0	07G		4/1/2007	6/1/2010	\$ 2,500,000
WFEC	Mooreland 345/138 kv Transformer	New Mooreland 345/138 kv Transformer	0	07G		4/1/2007	6/1/2010	\$ 5,000,000
WFEC	RUSSELL SWITCH CAPACITOR	Increase 12 to 18 MVARs at Russell Switch	0	11WP		12/1/2011	12/1/2011	\$ 75,000
WFEC	Spearville - Mooreland 345 kv WFEC	New 345 kV line from Kansas/Oklahoma Stateline to Mooreland	0	07G		4/1/2007	6/1/2010	\$ 21,000,000

**Table 3 - Upgrade Requirements and Solutions Needed to Provide Transmission Service for the Aggregate Study**

**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	Minimum ATC per Upgrade (MW)	Season of Minimum Allocated ATC	Earliest Date Upgrade Required (COD)	Estimated Date of Upgrade Completion (EOC)
AEPW	Chamber Springs - Tontitown 345 kV	SPP and AEPW New 345 kV Line Planned with Estimated In-Service Date 6/1/2009	0	07SP	6/1/2007	6/1/2009
AEPW	Flint Creek - East Centerlon 345 kV	SPP and AEPW New 345 kV Line Planned with Estimated In-Service Date 6/1/2011	0	07SP	6/1/2011	6/1/2011
AEPW	EUREKA SPRINGS - OSAGE 161KV CKT 1	EUREKA SPRINGS - OSAGE 161KV CKT 1	34	16SP	6/1/2015	6/1/2015
KACP	LACYGNE-PAOLA-WEST GARDER 345KV	New 345/161kV transformer and 345kV line tapping LaCyne - West Gardner 345kV	0	07SH	6/1/2007	6/1/2008
KACY	KAW WEST 161/69KV TRANSFORMER CKT 1	Move load to 161kV system	32	07SP	6/1/2007	6/1/2008
MIDW	HEIZER TO KNOLL 230KV	HEIZER TO KNOLL 230KV	1	07G	12/1/2006	6/1/2007
MIPU	IATAN - ST JOE 345KV CKT 1	Circuit Breaker	0	11WP	6/1/2011	4/1/2007
SPS	TUCO INTERCHANGE 230KV #1	SPS Proposed Plan for SPP-2004-006,007,008,009 WTMPA to 2 50 MVAR Shunt Capacitors at TUCO 230 kV, a 50 MVAR Shunt Capacitor at Swisher 230 kV, a 50 MVAR Shunt Capacitor at Lubbock South 230 kV, and a 50 MVAR Shunt Capacitor at Carlisle 230 kV	0	08SP	6/1/2007	6/1/2007
SPS	TUCO INTERCHANGE 230KV #2	SPS Proposed Plan for SPP-2004-006,007,008,009 WTMPA to Add +150/-50 SVC at TUCO 230 kV	0	08SP	6/1/2008	6/1/2008
SUNC	HOLCOMB - PLYMELL - PIONEER TAP 115KV CKT 1	Holcomb to Pioneer Tap Rebuild	0	07SH	6/1/2007	6/1/2008
WEPL	PHILLIPSBURG TO RHOADES 115KV	PHILLIPSBURG TO RHOADES 115KV	146	07SP	4/1/2007	6/1/2008
WERE	ROSE HILL JUNCTION - WEAVER 69KV CKT 1	Rebuild 5.73 mile Weaver-Rose Hill Junction as a 138 kV line but operate at 69 kV.	39	07G	10/1/2006	6/1/2007
WFEC	Morewood Conversion	Convert Area to 138 kV	0	11WP	12/1/2011	6/1/2008

**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	Minimum ATC per Upgrade (MW)	Season of Minimum Allocated ATC	Earliest Date 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 wavetrap & jumpers with 2156 ACSR. Replace Switch 2285 @ Alumax Tap.	0	11SP	6/1/2007	3/1/2008
AEPW	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	789	16SP	6/1/2013	6/1/2013
AEPW	ELK CITY - ELK CITY 69KV CKT 1 AEPW	Replace metering CTs & Jumpers and reset relay Cts	0	11SP	6/1/2007	12/1/2007
AEPW	ELK CITY CAPACITOR	Install 9.6 MVAR capacitor bank @ Elk City 138	0	11WP	12/1/2011	12/1/2011
AEPW	LINWOOD - MCWILLIE STREET 138KV CKT 1	Rebuild 2.09 miles of 666 ACSR with 1272 ACSR	0	07SP	6/1/2007	6/1/2007
AEPW	Siloam Springs - South Fayetteville 161 kV	Convert Existing 69 kV Line to 161 kV Operator	0	16SP	6/1/2015	6/1/2015
AEPW	WEATHERFORD SOUTHEAST (WTH_SE) 138/69/13.8KV TRANSFORMER CKT 1	Install new 90 MVA Auto	0	07SP	6/1/2007	6/1/2008
AEPW/WFEC	SNYDER AEPW- SNYDER WFEC INTERCONNECTION	New Tie line between AEPW's Snyder and WFEC's Snyder	0	11WP	6/1/2011	6/1/2011
CELE	COCODRIE 230/138KV TRANSFORMER CKT 1	Replace Cocodrie 230/138 kV Auto XFMR	0	11WP	12/1/2011	12/1/2011
EMDE	JAMESVILLE - SUB 415 - BLACKHAWK JCT 69KV CKT 1	Replace Jumpers to breaker #6950 at Blackhawk Jct.	0	16SP	6/1/2012	6/1/2012
EMDE	SUB 124 - AURORA HT - SUB 152 - MONETT HT 69KV CKT 1	Change CT Ratio on breaker #6936 at Aurora #124	0	11SP	6/1/2010	6/1/2009
EMDE	SUB 145 - JOPLIN WEST 7TH - SUB 64 - JOPLIN 10TH ST 69KV CKT 1	Replace 600 amp disconnects and leads to breaker #6965 at Joplin #64	0	16SP	6/1/2013	6/1/2013
EMDE	SUB 167 - RIVERTON - SUB 406 - RIVERTON SOUTH 69KV CKT 1	Change Relay Settings and change jumpers on switch at Riverton Sub #406	47	16SP	6/1/2016	6/1/2016
GRDA	GRAY TAP - PENSACOLA 69KV CKT 1	Rebuild line to 795 ACSR	0	08SP	6/1/2008	6/1/2008
MIDW	ST JOHN CAPACITOR	MIDW St. John Capacitors (2008 Summer)	44	07WP	6/1/2007	6/1/2008
MIPU	ANACONDA - FREEMAN 69KV CKT 1	Conductor	258	11SP	6/1/2009	6/1/2009
MIPU	ANACONDA - HARRISONVILLE WEST 69KV CKT 1	Conductor	280	11SP	6/1/2009	6/1/2009
MIPU	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CKT 1	Conductor	0	08SP	6/1/2008	6/1/2008
MIPU	EAST 20MVAR CAPACITOR	Add 20MVAR capacitor at East 161kV	158	11SP	6/1/2011	6/1/2011
MIPU	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1	Wave Trap	403	11WP	12/1/2011	12/1/2011
MIPU	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	Upgrade to bundled 795 26/7 ACSR conductor	0	11WP	12/1/2006	12/1/2008
MIPU	RALPH GREEN CAPACITOR	12MVAR at Ralph Green	271	11SP	6/1/2011	6/1/2011
OKGE	MUSKOGEE 345/161kV TRANSFORMER CKT 1	Add a 345/161 kV 369MVA transformer at Muskogee.	0	16SP	6/1/2014	6/1/2014
SPS	BC-EARTH INTERCHANGE 115KV	Install 1 - 14.4 MVar capacitor bank	23	16SP	6/1/2016	6/1/2016
SPS	BOOKER 69KV	Install 1 - 7.2 MVar capacitor bank at Booker 69 kV	0	16SP	6/1/2016	6/1/2016
SPS	COX INTERCHANGE - LH-COX3 115KV CKT 1	Rebuild Cox-LHCox 115 kV circuit w/397 ACSR	314	16SP	6/1/2015	6/1/2015
SPS	HALE CO INTERCHANGE - LH-COX3 115KV CKT 1	Rebuild Hale - LHCox 115 kV circuit w/397 ACSR	314	16SP	6/1/2015	6/1/2015
SPS	Hart Interchange 230/115 kV	New 230/115 kV Hart Intg with 115 kV 397 ACSR ckt to Kress Int. 3-brkr 230 kV ring. 150 MVA auto. 115 kV terminal	8	16SP	6/1/2011	6/1/2011
SPS	KRESS INTERCHANGE 115/69KV TRANSFORMERS	Upgrade both existing transformer	0	16SP	4/1/2007	6/1/2006
SPS	Pringle - Etter 115 kV	Build New 115 kV line from Pringle to Etter	0	16SP	12/1/2011	12/1/2011
SPS	Seven Rivers to Pecos to Potash Junction 230kV	Seven Rivers to Pecos to Potash Junction 230kV	0	11WP	6/1/2007	6/1/2009
SPS	Stalene Project	Tap Elk City - Grapevine. New line from Stalene Tap to Graves Co. New 115/69xfmr at Graves Co.	1	16SP	6/1/2014	6/1/2014
SPS	TERRY COUNTY INTERCHANGE 115/69KV TRANSFORMERS	Upgrade both existing transformer by 10/1/2007	0	07SH	6/1/2007	6/1/2007
SPS	TUCO INTERCHANGE 115/69KV TRANSFORMER	Move Load to 115 kV at TUCO	0	07SP	6/1/2007	6/1/2007
SWPA	BULL SHOALS - BULL SHOALS 161KV CKT 1	Replace buswork in Bull Shoals switchyard.	0	11WP	6/1/2009	6/1/2009
WEPL	ELLSWORTH 230KV TAP	Build a new 230/115 kV Sub at Ellsworth tapped with the 230 kV line	203	11WP	6/1/2011	6/1/2011
WERE	ANZIO - FORT JUNCTION SWITCHING STATION 115KV CKT 1	Tear down / Rebuild 3.53-mile section of line, 556.5 kcmil ACSR	0	07SH	6/1/2007	12/1/2007
WERE	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	Rebuild 16.66 mile Circleville-Hoyt HTI Junction 115 kV line.	23	11WP	6/1/2010	6/1/2010
WERE	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	Rebuild 15.15 mile line with 1192.5 kcmil ACSR and replace CTs	0	11WP	6/1/2010	6/1/2010
WERE	DEARING (DEARIN1X) 138/69/13.2KV TRANSFORMER CKT 1	2nd Dearing 138-69 kV Transformer	0	11WP	12/1/2011	12/1/2011
WERE	FARMERS CONSUMER CO-OP - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT 1	Rebuild 1.53-mile Co-op-Wakarusa 115 kV line.	0	16SP	6/1/2007	1/1/2008
WERE	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1	Rebuild 5.56-mile line, 954 ACSR	0	16SP	6/1/2007	1/1/2008
WERE	GILLJCT269.0 - OATVILLE 69KV CKT 1	Rebuild 0.14-mile Gill-Oatville 69 kV line.	0	16SP	6/1/2012	6/1/2012
WERE	KELLY - KING HILL N.M. COOP 115KV CKT 1	Rebuild 9.61-mile line, 1192.5 ACSR	0	11WP	6/1/2010	6/1/2010
WERE	STRANGER - THORNTON 115KV	Build new 7+ mile Stranger-Thornton 115 kV line	0	11SP	6/1/2009	6/1/2009
WERE	STULL SWITCHING STATION - TECUMSEH HILL 115KV CKT 1	Rebuild 9.84-mile line, 1192.5 ACSR	0	16SP	10/1/2007	4/1/2008
WERE	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	Uprate 0.24 mile TEC-Tecumseh Hill 115 kV line to 100 degree operation.	388	11SP	6/1/2011	6/1/2011
WFEC	CARTER JCT CAPACITOR	Increase 6 to 24 MVAR at Carter JCT	0	11WP	6/1/2011	6/1/2011
WFEC	SNYDER CAPACITOR	Increase 12 to 24 MVAR at Snyder	29	16SP	6/1/2016	6/1/2016

**Table 3 - Upgrade Requirements and Solutions Needed to Provide Transmission Service for the Aggregate Study**

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

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (COD)	Estimated Date of Upgrade Completion (EOC)
AEPW	EAST CENTRAL HENRYETTA - OKMULGEE 138KV CKT 1	Replace Okmulgee Wavetrap	12/1/2006	12/1/2006
AEPW	EAST CENTRAL HENRYETTA - WELEETKA 138KV CKT 1	Replace Weleetka Wavetrap	6/1/2007	6/1/2007
KACP	COLLEGE - CRAIG 161KV CKT 1	Reconductor 4 miles with 1192.5 ACSS, 558 normal/emergency rating and upgrade breaker.	6/1/2011	6/1/2011
MIPU	BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1	Conductor	6/1/2011	6/1/2011
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 390A & 600A.	12/1/2007	6/1/2008
OKGE	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1	Replace bus tie with 100MVA transformer	6/1/2008	6/1/2008
WERE	166TH STREET - JAGGARD JUNCTION 115KV CKT 1	Tear down and rebuild 3.66 mile 166-Jaggard 115 kV line.	6/1/2009	6/1/2009
WERE	166TH STREET - JARBALO JUNCTION SWITCHING STATION 115KV CKT 1	Tear down and rebuild 7.22 mile Jarbalo-166 115 kV line.	6/1/2009	6/1/2009
WERE	CRESWELL - OAK 69KV CKT 1	Rebuild substations.	6/1/2011	6/1/2011
WERE	JAGGARD JUNCTION - PENTAGON 115KV CKT 1	Uprate 5.55 mile Jaggard-Pentagon 115 kV line.	6/1/2009	6/1/2009
WERE	RICHLAND - ROSE HILL JUNCTION 69KV CKT 1	Rebuild 5.43 mile Rose Hill Junction-Richland as a 138 kV line but operate at 69 kV.	6/1/2015	6/1/2015
WERE	ROSE HILL JUNCTION - WEAVER 69KV CKT 1	Rebuild 5.73 mile Weaver-Rose Hill Junction as a 138 kV line but operate at 69 kV.	6/1/2006	6/1/2007
WERE	STRANGER CREEK - NW LEAVENWORTH 115KV	Rebuild 11.62-mile Jarbalo-NW Leavenworth 115 kV line and tap in & out of Stranger 115 kV	6/1/2009	6/1/2009
WFEC	FPL SWITCH - MOORELAND 138KV CKT 1 WFEC	Upgrade terminal equipment FPL Sw & Mooreland	12/1/2007	6/1/2008

Table 4 - Third Party Facility Constraints

<b>Transmission Owner</b>	<b>Upgrade</b>	<b>Solution</b>	<b>Estimated Engineering &amp; Construction Cost</b>
	Undetermined at This Time	Indeterminate	Indeterminate



Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

Upgrade: ALUMAX TAP - NORTHWEST TEXARKANA 138KV CKT 1  
 Limiting Facility: ALUMAX TAP - NORTHWEST TEXARKANA 138KV CKT 1  
 Direction: To->From  
 Line Outage: SPP-AEPW-29  
 Flowgate: 53245533001SPP-AEPW-291107SP  
 Date Redispatch Needed: 6/1/07 - 10/1/07  
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
1086235	2.9	3							
1086238	0.6	3							
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.08758	AEPW	'COMANCHE 138KV'	160	0.01244	-0.10002	35
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.08758	AEPW	'COMANCHE 69KV'	63	0.01239	-0.09997	35
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.08758	AEPW	'SOUTHWESTERN STATION 138KV'	355	0.01212	-0.0997	35
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.08758	AEPW	'WEATHERFORD 34KV'	148	0.01152	-0.0991	35
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.08758	AEPW	'WELSH 345KV'	990	0.01228	-0.09986	35
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.08758	AEPW	'COGENTRIX 345KV'	665	0.00882	-0.0964	36
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.08758	AEPW	'OEC 345KV'	156	0.00853	-0.09611	36
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.08758	AEPW	'RIVERSIDE STATION 138KV'	699	0.00877	-0.09635	36
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.08758	AEPW	'TULSA POWER STATION 138KV'	112	0.00869	-0.09627	36
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.08758	AEPW	'TULSA POWER STATION 138KV'	147	0.00869	-0.09627	36
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.08758	AEPW	'WELEETKA 138KV'	70	0.00961	-0.09719	36
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.08758	AEPW	'FLINT CREEK 161KV'	420	0.00713	-0.09471	37
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.08758	AEPW	'NORTHEASTERN STATION 138KV'	405	0.00807	-0.09565	37
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.08758	AEPW	'NORTHEASTERN STATION 138KV'	95	0.00807	-0.09565	37
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.08758	AEPW	'NORTHEASTERN STATION 345KV'	645	0.00807	-0.09565	37
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.08758	AEPW	'FITZHUGH 161KV'	31	0.00382	-0.0914	38
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.08758	AEPW	'LEBROCK 345KV'	365	-0.00885	-0.07873	44
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.08758	AEPW	'NARROWS 69KV'	22	-0.00837	-0.07921	44
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.08758	AEPW	'PIRKEY GENERATION 138KV'	248	-0.01311	-0.07447	47
AEPW	'WILKES 138KV'	68	-0.06077	AEPW	'COMANCHE 138KV'	160	0.01244	-0.07321	48
AEPW	'WILKES 138KV'	68	-0.06077	AEPW	'COMANCHE 69KV'	63	0.01239	-0.07316	48
AEPW	'WILKES 138KV'	68	-0.06077	AEPW	'SOUTHWESTERN STATION 138KV'	355	0.01212	-0.07289	48
AEPW	'WILKES 138KV'	68	-0.06077	AEPW	'WEATHERFORD 34KV'	148	0.01152	-0.07229	48
AEPW	'WILKES 138KV'	68	-0.06077	AEPW	'WELSH 345KV'	990	0.01228	-0.07305	48
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.08758	AEPW	'EASTMAN 138KV'	155	-0.01562	-0.07196	49
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.08758	AEPW	'KNOXLEE 138KV'	284	-0.01564	-0.07194	49
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.08758	AEPW	'WILKES 345KV'	311	-0.01738	-0.0702	50
AEPW	'WILKES 138KV'	68	-0.06077	AEPW	'COGENTRIX 345KV'	665	0.00882	-0.06959	50
AEPW	'WILKES 138KV'	68	-0.06077	AEPW	'OEC 345KV'	156	0.00853	-0.0693	50
AEPW	'WILKES 138KV'	68	-0.06077	AEPW	'RIVERSIDE STATION 138KV'	699	0.00877	-0.06954	50
AEPW	'WILKES 138KV'	68	-0.06077	AEPW	'TULSA POWER STATION 138KV'	112	0.00869	-0.06946	50
AEPW	'WILKES 138KV'	68	-0.06077	AEPW	'TULSA POWER STATION 138KV'	147	0.00869	-0.06946	50
AEPW	'WILKES 138KV'	68	-0.06077	AEPW	'WELEETKA 138KV'	70	0.00961	-0.07038	50
AEPW	'WILKES 138KV'	68	-0.06077	AEPW	'FLINT CREEK 161KV'	420	0.00713	-0.0679	51
AEPW	'WILKES 138KV'	68	-0.06077	AEPW	'NORTHEASTERN STATION 138KV'	405	0.00807	-0.06884	51
AEPW	'WILKES 138KV'	68	-0.06077	AEPW	'NORTHEASTERN STATION 138KV'	95	0.00807	-0.06884	51
AEPW	'WILKES 138KV'	68	-0.06077	AEPW	'NORTHEASTERN STATION 345KV'	645	0.00807	-0.06884	51
AEPW	'WILKES 138KV'	68	-0.06077	AEPW	'FITZHUGH 161KV'	31	0.00382	-0.06459	54
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.08758	AEPW	'LIEBERMAN 138KV'	101	-0.02651	-0.06107	57
AEPW	'WILKES 138KV'	68	-0.06077	AEPW	'LEBROCK 345KV'	365	-0.00885	-0.05192	67
AEPW	'WILKES 138KV'	68	-0.06077	AEPW	'PIRKEY GENERATION 138KV'	248	-0.01311	-0.04766	73
AEPW	'WILKES 138KV'	68	-0.06077	AEPW	'EASTMAN 138KV'	155	-0.01562	-0.04515	77
AEPW	'WILKES 138KV'	68	-0.06077	AEPW	'KNOXLEE 138KV'	284	-0.01564	-0.04513	77
AEPW	'WILKES 138KV'	68	-0.06077	AEPW	'WILKES 345KV'	311	-0.01738	-0.04339	81
AEPW	'LIEBERMAN 138KV'	127	-0.02651	AEPW	'COMANCHE 138KV'	160	0.01244	-0.03895	90
AEPW	'LIEBERMAN 138KV'	127	-0.02651	AEPW	'COMANCHE 69KV'	63	0.01239	-0.0389	90
AEPW	'LIEBERMAN 138KV'	127	-0.02651	AEPW	'WELSH 345KV'	990	0.01228	-0.03879	90
AEPW	'LIEBERMAN 138KV'	127	-0.02651	AEPW	'SOUTHWESTERN STATION 138KV'	355	0.01212	-0.03863	91
AEPW	'LIEBERMAN 138KV'	127	-0.02651	AEPW	'WEATHERFORD 34KV'	148	0.01152	-0.03803	92
AEPW	'LIEBERMAN 138KV'	127	-0.02651	AEPW	'WELEETKA 138KV'	70	0.00961	-0.03612	97
AEPW	'LIEBERMAN 138KV'	127	-0.02651	AEPW	'COGENTRIX 345KV'	665	0.00882	-0.03533	99
AEPW	'LIEBERMAN 138KV'	127	-0.02651	AEPW	'RIVERSIDE STATION 138KV'	699	0.00877	-0.03528	99
AEPW	'LIEBERMAN 138KV'	127	-0.02651	AEPW	'TULSA POWER STATION 138KV'	112	0.00869	-0.0352	99
AEPW	'LIEBERMAN 138KV'	127	-0.02651	AEPW	'TULSA POWER STATION 138KV'	147	0.00869	-0.0352	99
AEPW	'ARSENAL HILL 69KV'	75	-0.02242	AEPW	'COMANCHE 138KV'	160	0.01244	-0.03486	100
AEPW	'ARSENAL HILL 69KV'	75	-0.02242	AEPW	'COMANCHE 69KV'	63	0.01239	-0.03481	100
AEPW	'LIEBERMAN 138KV'	127	-0.02651	AEPW	'OEC 345KV'	156	0.00853	-0.03504	100
AEPW	'ARSENAL HILL 69KV'	75	-0.02242	AEPW	'SOUTHWESTERN STATION 138KV'	355	0.01212	-0.03454	101
AEPW	'ARSENAL HILL 69KV'	75	-0.02242	AEPW	'WELSH 345KV'	990	0.01228	-0.0347	101
AEPW	'LIEBERMAN 138KV'	127	-0.02651	AEPW	'NORTHEASTERN STATION 138KV'	405	0.00807	-0.03458	101
AEPW	'LIEBERMAN 138KV'	127	-0.02651	AEPW	'NORTHEASTERN STATION 138KV'	95	0.00807	-0.03458	101
AEPW	'LIEBERMAN 138KV'	127	-0.02651	AEPW	'NORTHEASTERN STATION 345KV'	645	0.00807	-0.03458	101
AEPW	'WILKES 138KV'	68	-0.06077	AEPW	'LIEBERMAN 138KV'	101	-0.02651	-0.03426	102
AEPW	'ARSENAL HILL 69KV'	75	-0.02242	AEPW	'WEATHERFORD 34KV'	148	0.01152	-0.03394	103
AEPW	'LIEBERMAN 138KV'	127	-0.02651	AEPW	'FLINT CREEK 161KV'	420	0.00713	-0.03364	104
AEPW	'ARSENAL HILL 69KV'	75	-0.02242	AEPW	'WELEETKA 138KV'	70	0.00961	-0.03203	109
AEPW	'ARSENAL HILL 69KV'	75	-0.02242	AEPW	'COGENTRIX 345KV'	665	0.00882	-0.03124	112
AEPW	'ARSENAL HILL 69KV'	75	-0.02242	AEPW	'RIVERSIDE STATION 138KV'	699	0.00877	-0.03119	112
AEPW	'ARSENAL HILL 69KV'	75	-0.02242	AEPW	'TULSA POWER STATION 138KV'	112	0.00869	-0.03111	112
AEPW	'ARSENAL HILL 69KV'	75	-0.02242	AEPW	'TULSA POWER STATION 138KV'	147	0.00869	-0.03111	112
AEPW	'ARSENAL HILL 69KV'	75	-0.02242	AEPW	'OEC 345KV'	156	0.00853	-0.03095	113
AEPW	'ARSENAL HILL 69KV'	75	-0.02242	AEPW	'NORTHEASTERN STATION 138KV'	405	0.00807	-0.03049	115
AEPW	'ARSENAL HILL 69KV'	75	-0.02242	AEPW	'NORTHEASTERN STATION 138KV'	95	0.00807	-0.03049	115
AEPW	'ARSENAL HILL 69KV'	75	-0.02242	AEPW	'NORTHEASTERN STATION 345KV'	645	0.00807	-0.03049	115

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: ANZIO - FORT JUNCTION SWITCHING STATION 115KV CKT 1  
 Limiting Facility: ANZIO - FORT JUNCTION SWITCHING STATION 115KV CKT 1  
 SPP AGGREGATE SYSTEM IMPACT STUDY (SPP-2006-AG2-ASIS)

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

Direction: To->From  
 Line Outage: SPP-WERE-46  
 Flowgate: 57321573281SPP-WERE-462207SH  
 Date Redispatch Needed: 6/1 - 10/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Summer Shoulder

Reservation	Relief Amount	Aggregate Relief Amount											
1090674		0.1	0										
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)				
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'CHANUTE 69KV'	47	0.00108	-0.38628	1				
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'CITY OF AUGUSTA 69KV'	20	0.00086	-0.38606	1				
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'CITY OF BURLINGTON 69KV'	5	0.00193	-0.38713	1				
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'CITY OF ERIE 69KV'	24	0.00108	-0.38628	1				
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'CITY OF FREDONIA 69KV'	10	0.00093	-0.38613	1				
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'CITY OF GIRARD 69KV'	3	0.00106	-0.38626	1				
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'CITY OF IOLA 69KV'	20	0.00119	-0.38639	1				
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'CITY OF MULVANE 69KV'	6	0.00035	-0.38555	1				
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'CITY OF WELLINGTON 69KV'	36	-0.00012	-0.38508	1				
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00193	-0.38713	1				
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'EVANS ENERGY CENTER 138KV'	268	0.00084	-0.38604	1				
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00059	-0.38461	1				
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'HOLTON 115KV'	16	0.00576	-0.39096	1				
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'HUTCHINSON ENERGY CENTER 115KV'	80	-0.08161	-0.30359	1				
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00979	-0.39499	1				
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00084	-0.38604	1				
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00887	-0.39407	1				
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'LAWRENCE ENERGY CENTER 230KV'	237	0.00952	-0.39472	1				
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'SOUTH SENECA 115KV'	13	0.00463	-0.38983	1				
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.0144	-0.3996	1				
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'WACO 138KV'	18	-0.00045	-0.38475	1				
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'CHANUTE 69KV'	47	0.00108	-0.09951	1				
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'CITY OF AUGUSTA 69KV'	20	0.00086	-0.09929	1				
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'CITY OF BURLINGTON 69KV'	5	0.00193	-0.10036	1				
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'CITY OF ERIE 69KV'	24	0.00108	-0.09951	1				
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'CITY OF FREDONIA 69KV'	10	0.00093	-0.09936	1				
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'CITY OF GIRARD 69KV'	3	0.00106	-0.09949	1				
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'CITY OF IOLA 69KV'	20	0.00119	-0.09962	1				
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'CITY OF MULVANE 69KV'	6	0.00035	-0.09878	1				
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'CITY OF WELLINGTON 69KV'	36	-0.00012	-0.09831	1				
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00193	-0.10036	1				
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'EVANS ENERGY CENTER 138KV'	268	0.00084	-0.09927	1				
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00059	-0.09784	1				
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'HOLTON 115KV'	16	0.00576	-0.10419	1				
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00979	-0.10822	1				
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00084	-0.09927	1				
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00887	-0.1073	1				
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'LAWRENCE ENERGY CENTER 230KV'	237	0.00952	-0.10795	1				
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'SOUTH SENECA 115KV'	13	0.00463	-0.10306	1				
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.0144	-0.11283	1				
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'WACO 138KV'	18	-0.00045	-0.09798	1				
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'CHANUTE 69KV'	47	0.00108	-0.53102	1				
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'CITY OF AUGUSTA 69KV'	20	0.00086	-0.5308	1				
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'CITY OF BURLINGTON 69KV'	5	0.00193	-0.53187	1				
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'CITY OF ERIE 69KV'	24	0.00108	-0.53102	1				
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'CITY OF FREDONIA 69KV'	10	0.00093	-0.53087	1				
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'CITY OF GIRARD 69KV'	3	0.00106	-0.531	1				
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'CITY OF IOLA 69KV'	20	0.00119	-0.53113	1				
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'CITY OF MULVANE 69KV'	6	0.00035	-0.53029	1				
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'CITY OF WELLINGTON 69KV'	36	-0.00012	-0.52982	1				
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00193	-0.53187	1				
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'EVANS ENERGY CENTER 138KV'	268	0.00084	-0.53078	1				
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00059	-0.52935	1				
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'HOLTON 115KV'	16	0.00576	-0.5357	1				
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'HUTCHINSON ENERGY CENTER 115KV'	80	-0.08161	-0.44833	1				
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00979	-0.53973	1				
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00084	-0.53078	1				
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00887	-0.53881	1				
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'LAWRENCE ENERGY CENTER 230KV'	237	0.00952	-0.53946	1				
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'SOUTH SENECA 115KV'	13	0.00463	-0.53457	1				
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.0144	-0.54434	1				
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'WACO 138KV'	18	-0.00045	-0.52949	1				
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'CHANUTE 69KV'	47	0.00108	-0.08269	1				
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'CITY OF AUGUSTA 69KV'	20	0.00086	-0.08247	1				
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'CITY OF BURLINGTON 69KV'	5	0.00193	-0.08354	1				
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'CITY OF ERIE 69KV'	24	0.00108	-0.08269	1				
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'CITY OF FREDONIA 69KV'	10	0.00093	-0.08254	1				
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'CITY OF GIRARD 69KV'	3	0.00106	-0.08267	1				
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'CITY OF IOLA 69KV'	20	0.00119	-0.0828	1				
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'CITY OF MULVANE 69KV'	6	0.00035	-0.08196	1				
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'CITY OF WELLINGTON 69KV'	36	-0.00012	-0.08149	1				
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00193	-0.08354	1				
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'EVANS ENERGY CENTER 138KV'	268	0.00084	-0.08245	1				
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00059	-0.08102	1				
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'HOLTON 115KV'	16	0.00576	-0.08737	1				
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00979	-0.0914	1				
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00084	-0.08245	1				
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00887	-0.09048	1				
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'LAWRENCE ENERGY CENTER 230KV'	237	0.00952	-0.09113	1				
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'SOUTH SENECA 115KV'	13	0.00463	-0.08624	1				
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.0144	-0.09601	1				
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'WACO 138KV'	18	-0.00045	-0.08116	1				
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'CHANUTE 69KV'	47	0.00108	-0.08266	1				
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'CITY OF AUGUSTA 69KV'	20	0.00086	-0.08244	1				

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'CITY OF BURLINGTON 69KV'	5	0.00193	-0.08351	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'CITY OF ERIE 69KV'	24	0.00108	-0.08266	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'CITY OF FREDONIA 69KV'	10	0.00093	-0.08251	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'CITY OF GIRARD 69KV'	3	0.00106	-0.08264	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'CITY OF IOLA 69KV'	20	0.00119	-0.08277	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'CITY OF MULVANE 69KV'	6	0.00035	-0.08193	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'CITY OF WELLINGTON 69KV'	36	-0.00012	-0.08146	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00193	-0.08351	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'EVANS ENERGY CENTER 138KV'	268	0.00084	-0.08242	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00059	-0.08099	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'HOLTON 115KV'	16	0.00576	-0.08734	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00979	-0.09137	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00084	-0.08242	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00887	-0.09045	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'LAWRENCE ENERGY CENTER 230KV'	237	0.00952	-0.09111	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'SOUTH SENECA 115KV'	13	0.00463	-0.08621	1

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: ANZIO - FORT JUNCTION SWITCHING STATION 115KV CKT 1  
 Limiting Facility: ANZIO - FORT JUNCTION SWITCHING STATION 115KV CKT 1  
 Direction: To->From  
 Line Outage: WR-DOUBLE12  
 Flowgate: 57321573281WR-DOUBLE122207SH  
 Date Redispatch Needed: 6/1 - 10/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Summer Shoulder

Reservation	Relief Amount	Aggregate Relief Amount								
1090674	0.1	0								
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)	
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'CHANUTE 69KV'	47	0.00108	-0.38628	1	
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'CITY OF AUGUSTA 69KV'	20	0.00086	-0.38606	1	
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'CITY OF BURLINGTON 69KV'	5	0.00193	-0.38713	1	
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'CITY OF ERIE 69KV'	24	0.00108	-0.38628	1	
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'CITY OF FREDONIA 69KV'	10	0.00093	-0.38613	1	
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'CITY OF GIRARD 69KV'	3	0.00106	-0.38626	1	
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'CITY OF IOLA 69KV'	20	0.00119	-0.38639	1	
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'CITY OF MULVANE 69KV'	6	0.00035	-0.38555	1	
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'CITY OF WELLINGTON 69KV'	36	-0.00012	-0.38508	1	
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00193	-0.38713	1	
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'EVANS ENERGY CENTER 138KV'	268	0.00084	-0.38604	1	
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00059	-0.38461	1	
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'HOLTON 115KV'	16	0.00576	-0.39096	1	
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'HUTCHINSON ENERGY CENTER 115KV'	80	-0.08161	-0.30359	1	
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00979	-0.39499	1	
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00084	-0.38604	1	
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00887	-0.39407	1	
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'LAWRENCE ENERGY CENTER 230KV'	237	0.00952	-0.39472	1	
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'SOUTH SENECA 115KV'	13	0.00463	-0.38983	1	
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.0144	-0.3996	1	
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.3852	WERE	'WACO 138KV'	18	-0.00045	-0.38475	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'CHANUTE 69KV'	47	0.00108	-0.09951	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'CITY OF AUGUSTA 69KV'	20	0.00086	-0.09929	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'CITY OF BURLINGTON 69KV'	5	0.00193	-0.10036	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'CITY OF ERIE 69KV'	24	0.00108	-0.09951	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'CITY OF FREDONIA 69KV'	10	0.00093	-0.09936	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'CITY OF GIRARD 69KV'	3	0.00106	-0.09949	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'CITY OF IOLA 69KV'	20	0.00119	-0.09962	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'CITY OF MULVANE 69KV'	6	0.00035	-0.09878	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'CITY OF WELLINGTON 69KV'	36	-0.00012	-0.09831	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00193	-0.10036	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'EVANS ENERGY CENTER 138KV'	268	0.00084	-0.09927	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00059	-0.09784	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'HOLTON 115KV'	16	0.00576	-0.10419	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00979	-0.10822	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00084	-0.09927	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00887	-0.1073	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'LAWRENCE ENERGY CENTER 230KV'	237	0.00952	-0.10795	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'SOUTH SENECA 115KV'	13	0.00463	-0.10306	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.0144	-0.11283	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09843	WERE	'WACO 138KV'	18	-0.00045	-0.09798	1	
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'CHANUTE 69KV'	47	0.00108	-0.53102	1	
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'CITY OF AUGUSTA 69KV'	20	0.00086	-0.5308	1	
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'CITY OF BURLINGTON 69KV'	5	0.00193	-0.53187	1	
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'CITY OF ERIE 69KV'	24	0.00108	-0.53102	1	
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'CITY OF FREDONIA 69KV'	10	0.00093	-0.53087	1	
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'CITY OF GIRARD 69KV'	3	0.00106	-0.531	1	
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'CITY OF IOLA 69KV'	20	0.00119	-0.53113	1	
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'CITY OF MULVANE 69KV'	6	0.00035	-0.53029	1	
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'CITY OF WELLINGTON 69KV'	36	-0.00012	-0.52982	1	
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00193	-0.53187	1	
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'EVANS ENERGY CENTER 138KV'	268	0.00084	-0.53078	1	
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00059	-0.52935	1	
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'HOLTON 115KV'	16	0.00576	-0.5357	1	
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'HUTCHINSON ENERGY CENTER 115KV'	80	-0.08161	-0.44833	1	
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00979	-0.53973	1	
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00084	-0.53078	1	
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00887	-0.53881	1	
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'LAWRENCE ENERGY CENTER 230KV'	237	0.00952	-0.53946	1	
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'SOUTH SENECA 115KV'	13	0.00463	-0.53457	1	
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.0144	-0.54434	1	

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.52994	WERE	'WACO 138KV'	18	-0.00045	-0.52949	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'CHANUTE 69KV'	47	0.00108	-0.08269	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'CITY OF AUGUSTA 69KV'	20	0.00086	-0.08247	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'CITY OF BURLINGTON 69KV'	5	0.00193	-0.08354	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'CITY OF ERIE 69KV'	24	0.00108	-0.08269	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'CITY OF FREDONIA 69KV'	10	0.00093	-0.08254	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'CITY OF GIRARD 69KV'	3	0.00106	-0.08267	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'CITY OF IOLA 69KV'	20	0.00119	-0.0828	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'CITY OF MULVANE 69KV'	6	0.00035	-0.08196	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'CITY OF WELLINGTON 69KV'	36	-0.00012	-0.08149	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00193	-0.08354	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'EVANS ENERGY CENTER 138KV'	268	0.00084	-0.08245	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00059	-0.08102	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'HOLTON 115KV'	16	0.00576	-0.08737	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00979	-0.0914	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00084	-0.08245	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00887	-0.09048	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'LAWRENCE ENERGY CENTER 230KV'	237	0.00952	-0.09113	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'SOUTH SENECA 115KV'	13	0.00463	-0.08624	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.0144	-0.09601	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.08161	WERE	'WACO 138KV'	18	-0.00045	-0.08116	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'CHANUTE 69KV'	47	0.00108	-0.08266	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'CITY OF AUGUSTA 69KV'	20	0.00086	-0.08244	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'CITY OF BURLINGTON 69KV'	5	0.00193	-0.08351	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'CITY OF ERIE 69KV'	24	0.00108	-0.08266	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'CITY OF FREDONIA 69KV'	10	0.00093	-0.08251	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'CITY OF GIRARD 69KV'	3	0.00106	-0.08264	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'CITY OF IOLA 69KV'	20	0.00119	-0.08277	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'CITY OF MULVANE 69KV'	6	0.00035	-0.08193	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'CITY OF WELLINGTON 69KV'	36	-0.00012	-0.08146	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00193	-0.08351	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'EVANS ENERGY CENTER 138KV'	268	0.00084	-0.08242	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00059	-0.08099	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'HOLTON 115KV'	16	0.00576	-0.08734	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00979	-0.09137	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00084	-0.08242	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00887	-0.09045	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'LAWRENCE ENERGY CENTER 230KV'	237	0.00952	-0.0911	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08158	WERE	'SOUTH SENECA 115KV'	13	0.00463	-0.08621	1

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: BROKEN BOW - CRAIG JUNCTION 138KV CKT 1  
 Limiting Facility: BROKEN BOW - CRAIG JUNCTION 138KV CKT 1  
 Direction: From->To  
 Line Outage: CRAIG JUNCTION - MOUNTAIN RIVER 138KV CKT 1  
 Flowgate: 52814540151540155600411106WP  
 Date Redispatch Needed: 12/1/06 - 4/1/07  
 Season Flowgate Identified: 2006 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount									
1079577		0.8									
1087908		0.3									
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)		
SWPA	'BEAVER 161KV'	40	0.01453	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.55338	2		
SWPA	'BULL SHOALS 161KV'	98	0.00796	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.55995	2		
SWPA	'CARTHAGE 69KV'	21	0.01474	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.55317	2		
SWPA	'CLARENCE CANNON DAM 69KV'	58	0.00786	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.56005	2		
SWPA	'DARDANELLE 161KV'	46	0.00537	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.56254	2		
SWPA	'DENISON 138KV'	20	0.05626	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.51165	2		
SWPA	'EUFAULA 138KV'	17	0.03387	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.53404	2		
SWPA	'EUFAULA 161KV'	9	0.03384	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.53407	2		
SWPA	'FORT GIBSON 161KV'	14	0.02196	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.54595	2		
SWPA	'GREERS FERRY 161KV'	31	0.00228	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.56563	2		
SWPA	'INDEPENDENCE 161KV'	13	0.00217	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.56574	2		
SWPA	'JONESBORO 161KV'	3	0.00183	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.56608	2		
SWPA	'KENNETT 69KV'	29	0.00228	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.56563	2		
SWPA	'KEYSTONE DAM 161KV'	20	0.0226	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.54531	2		
SWPA	'MALDEN 69KV'	15	0.00246	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.56545	2		
SWPA	'NORFORK 161KV'	24	0.00615	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.56176	2		
SWPA	'OZARK 161KV'	49	0.01204	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.55587	2		
SWPA	'PARAGOULD 69KV'	18	0.00202	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.56589	2		
SWPA	'PIGGOTT 69KV'	8	0.00234	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.56557	2		
SWPA	'POPLAR BLUFF 69KV'	13	0.00336	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.56455	2		
SWPA	'ROBERT S. KERR 161KV'	36	0.02016	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.54775	2		
SWPA	'STOCKTON 161KV'	15	0.01246	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.55545	2		
SWPA	'TABLE ROCK 161KV'	62	0.01185	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.55606	2		
SWPA	'TENKILLER FERRY 161KV'	12	0.02634	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.54157	2		
SWPA	'TRUMAN 161KV'	94	0.01068	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.55723	2		
SWPA	'WEBBERS FALLS 161KV'	36	0.02634	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.54157	2		
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'COGENTRIX 345KV'	665	0.02061	-0.15389	7		
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'COMANCHE 138KV'	160	0.02447	-0.15775	7		
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'COMANCHE 69KV'	63	0.02576	-0.15904	7		
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'FITZHUGH 161KV'	81	0.01206	-0.14534	7		
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'FLINT CREEK 161KV'	400	0.01732	-0.1506	7		
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'L&D13 69KV'	11	0.01508	-0.14836	7		
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'NORTHEASTERN STATION 138KV'	207	0.02011	-0.15339	7		
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'NORTHEASTERN STATION 138KV'	95	0.02011	-0.15339	7		
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'NORTHEASTERN STATION 345KV'	600	0.01951	-0.15279	7		
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'OEC 345KV'	156	0.02013	-0.15341	7		
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'RIVERSIDE STATION 138KV'	245	0.02379	-0.15707	7		

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'SOUTHWESTERN STATION 138KV'	32	0.02716	-0.16044	7
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'WEATHERFORD 34KV'	148	0.02438	-0.15766	7
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'EASTMAN 138KV'	155	-0.02801	-0.10527	10
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'KNOXLEE 138KV'	103	-0.02777	-0.10551	10
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'LEBROCK 345KV'	365	-0.0276	-0.10568	10
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'LIEBERMAN 138KV'	4	-0.02626	-0.10702	10
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'PIRKEY GENERATION 138KV'	223	-0.02777	-0.10551	10
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'WELSH 345KV'	960	-0.02988	-0.1034	10
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'WILKES 345KV'	172	-0.02876	-0.10452	10
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'WILKES 138KV'	127	-0.03209	-0.10119	11
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'COMANCHE 138KV'	160	0.02447	-0.08659	12
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'COMANCHE 69KV'	63	0.02576	-0.08788	12
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'SOUTHWESTERN STATION 138KV'	32	0.02716	-0.08928	12
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'WEATHERFORD 34KV'	148	0.02438	-0.0865	12
WFEC	'MORLND 138KV'	320	0.02296	WFEC	'HUGO 138KV'	450	0.11216	-0.0892	12
WFEC	'ANADARKO 138KV'	68	0.02777	WFEC	'HUGO 138KV'	450	0.11216	-0.08439	13
WFEC	'ANADARKO 138KV'	90	0.02777	WFEC	'HUGO 138KV'	450	0.11216	-0.08439	13
WFEC	'ANADARKO 69KV'	76	0.02764	WFEC	'HUGO 138KV'	450	0.11216	-0.08452	13
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'COGENTRIX 345KV'	665	0.02061	-0.08273	13
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'NORTHEASTERN STATION 138KV'	207	0.02011	-0.08223	13
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'NORTHEASTERN STATION 138KV'	95	0.02011	-0.08223	13
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'NORTHEASTERN STATION 345KV'	600	0.01951	-0.08163	13
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'OEC 345KV'	156	0.02013	-0.08225	13
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'RIVERSIDE STATION 138KV'	245	0.02379	-0.08591	13
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'FLINT CREEK 161KV'	400	0.01732	-0.07944	14
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'L&D13 69KV'	11	0.01508	-0.0772	14
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'FITZHUGH 161KV'	81	0.01206	-0.07418	15
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03283	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05859	18
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03283	AEPW	'SOUTHWESTERN STATION 138KV'	32	0.02716	-0.05999	18
AEPW	'WILKES 138KV'	336	-0.03209	AEPW	'SOUTHWESTERN STATION 138KV'	32	0.02716	-0.05925	18
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03283	AEPW	'COMANCHE 138KV'	160	0.02447	-0.0573	19
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03283	AEPW	'RIVERSIDE STATION 138KV'	245	0.02379	-0.05662	19
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03283	AEPW	'WEATHERFORD 34KV'	148	0.02438	-0.05721	19
AEPW	'WELSH 345KV'	84	-0.02988	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05564	19
AEPW	'WELSH 345KV'	84	-0.02988	AEPW	'SOUTHWESTERN STATION 138KV'	32	0.02716	-0.05704	19
AEPW	'WILKES 138KV'	336	-0.03209	AEPW	'COMANCHE 138KV'	160	0.02447	-0.05656	19
AEPW	'WILKES 138KV'	336	-0.03209	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05785	19
AEPW	'WILKES 138KV'	336	-0.03209	AEPW	'RIVERSIDE STATION 138KV'	245	0.02379	-0.05588	19
AEPW	'WILKES 138KV'	336	-0.03209	AEPW	'WEATHERFORD 34KV'	148	0.02438	-0.05647	19
AEPW	'WILKES 345KV'	139	-0.02876	AEPW	'SOUTHWESTERN STATION 138KV'	32	0.02716	-0.05592	19
AEPW	'ARSENAL HILL 69KV'	99	-0.02549	AEPW	'SOUTHWESTERN STATION 138KV'	32	0.02716	-0.05265	20
AEPW	'EASTMAN 138KV'	330	-0.02801	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05377	20
AEPW	'EASTMAN 138KV'	330	-0.02801	AEPW	'SOUTHWESTERN STATION 138KV'	32	0.02716	-0.05517	20
SWPA	'GREERS FERRY 161KV'	31	0.00228	SWPA	'DENISON 138KV'	50	0.05626	-0.05398	20
SWPA	'INDEPENDENCE 161KV'	13	0.00217	SWPA	'DENISON 138KV'	50	0.05626	-0.05409	20
SWPA	'KENNETT 69KV'	29	0.00228	SWPA	'DENISON 138KV'	50	0.05626	-0.05398	20
AEPW	'KNOXLEE 138KV'	260	-0.02777	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05353	20
AEPW	'KNOXLEE 138KV'	60	-0.02777	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05353	20
AEPW	'KNOXLEE 138KV'	260	-0.02777	AEPW	'SOUTHWESTERN STATION 138KV'	32	0.02716	-0.05493	20
AEPW	'KNOXLEE 138KV'	60	-0.02777	AEPW	'SOUTHWESTERN STATION 138KV'	32	0.02716	-0.05493	20
AEPW	'LEBROCK 345KV'	332	-0.0276	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05336	20
AEPW	'LEBROCK 345KV'	332	-0.0276	AEPW	'SOUTHWESTERN STATION 138KV'	32	0.02716	-0.05476	20
AEPW	'LIEBERMAN 138KV'	224	-0.02626	AEPW	'SOUTHWESTERN STATION 138KV'	32	0.02716	-0.05342	20
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03283	AEPW	'COGENTRIX 345KV'	665	0.02061	-0.05344	20
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03283	AEPW	'NORTHEASTERN STATION 138KV'	207	0.02011	-0.05294	20
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03283	AEPW	'NORTHEASTERN STATION 138KV'	95	0.02011	-0.05294	20
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03283	AEPW	'OEC 345KV'	156	0.02013	-0.05296	20
SWPA	'MALDEN 69KV'	15	0.00246	SWPA	'DENISON 138KV'	50	0.05626	-0.0538	20
SWPA	'PARAGOULD 69KV'	18	0.00202	SWPA	'DENISON 138KV'	50	0.05626	-0.05424	20
SWPA	'PIGGOTT 69KV'	8	0.00234	SWPA	'DENISON 138KV'	50	0.05626	-0.05392	20
AEPW	'PIRKEY GENERATION 138KV'	65	-0.02777	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05353	20
AEPW	'PIRKEY GENERATION 138KV'	65	-0.02777	AEPW	'SOUTHWESTERN STATION 138KV'	32	0.02716	-0.05493	20
SWPA	'POPLAR BLUFF 69KV'	13	0.00336	SWPA	'DENISON 138KV'	50	0.05626	-0.0529	20

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: BROKEN BOW - CRAIG JUNCTION 138KV CKT 1  
 Limiting Facility: BROKEN BOW - CRAIG JUNCTION 138KV CKT 1  
 Direction: From->To  
 Line Outage: CRAIG JUNCTION - MOUNTAIN RIVER 138KV CKT 1  
 Flowgate: 52814540151540155600411107FA  
 Date Redispatch Needed: Starting 2007 10/1 - 12/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Fall Peak

Reservation	Relief Amount	Aggregate Relief Amount
1079577	0.8	3
1087908	0.3	3
1089952	1.7	3

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
SWPA	'BEAVER 161KV'	11	0.01451	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.55335	5
SWPA	'BULL SHOALS 161KV'	195	0.00797	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.55989	5
SWPA	'CARTHAGE 69KV'	32	0.0147	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.55316	5
SWPA	'CLARENCE CANNON DAM 69KV'	3	0.00782	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.56004	5
SWPA	'DARDANELLE 161KV'	56	0.00541	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.56245	5
SWPA	'EUFAULA 138KV'	4	0.03374	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.53412	5
SWPA	'EUFAULA 161KV'	2	0.0337	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.53416	5
SWPA	'FORT GIBSON 161KV'	14	0.0219	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.54596	5
SWPA	'GREERS FERRY 161KV'	6	0.00228	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.56558	5
SWPA	'INDEPENDENCE 161KV'	13	0.00217	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.56569	5
SWPA	'JONESBORO 161KV'	76	0.00185	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.56601	5
SWPA	'KENNETT 69KV'	29	0.00229	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.56557	5

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

SWPA	'KEYSTONE DAM 161KV'	35	0.0223	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.54556	5
SWPA	'MALDEN 69KV'	15	0.00248	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.56538	5
SWPA	'NORFORK 161KV'	65	0.00616	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.5617	5
SWPA	'OZARK 161KV'	51	0.01206	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.5558	5
SWPA	'PARAGOULD 69KV'	18	0.00204	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.56582	5
SWPA	'PIGGOTT 69KV'	8	0.00236	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.5655	5
SWPA	'POPLAR BLUFF 69KV'	13	0.00343	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.56443	5
SWPA	'ROBERT S. KERR 161KV'	31	0.02014	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.54772	5
SWPA	'STOCKTON 161KV'	3	0.01244	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.55542	5
SWPA	'TABLE ROCK 161KV'	60	0.01183	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.55603	5
SWPA	'TENKILLER FERRY 161KV'	26	0.02624	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.54162	5
SWPA	'TRUMAN 161KV'	67	0.01063	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.55723	5
SWPA	'WEBBERS FALLS 161KV'	38	0.02624	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.54162	5
SWPA	'DENISON 138KV'	4	0.05622	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.51164	6
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'COGENTRIX 345KV'	665	0.02125	-0.15452	18
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'COMANCHE 138KV'	160	0.02448	-0.15775	18
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'COMANCHE 69KV'	63	0.02576	-0.15903	18
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'NORTHEASTERN STATION 138KV'	207	0.01995	-0.15322	18
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'NORTHEASTERN STATION 138KV'	95	0.01995	-0.15322	18
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'NORTHEASTERN STATION 345KV'	550	0.01951	-0.15278	18
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'OEC 345KV'	156	0.02027	-0.15354	18
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'RIVERSIDE STATION 138KV'	245	0.02274	-0.15601	18
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'SOUTHWESTERN STATION 138KV'	33	0.02715	-0.16042	18
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'WEATHERFORD 34KV'	148	0.02437	-0.15764	18
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'FITZHUGH 161KV'	92	0.01208	-0.14535	19
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'FLINT CREEK 161KV'	400	0.01729	-0.15056	19
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'LD13 69KV'	11	0.01509	-0.14836	19
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'EASTMAN 138KV'	155	-0.02807	-0.1052	27
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'KNOXLEE 138KV'	42	-0.02783	-0.10544	27
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'LEBROCK 345KV'	365	-0.02761	-0.10566	27
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'PIRKEY GENERATION 138KV'	213	-0.02778	-0.10549	27
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'WELSH 345KV'	990	-0.02986	-0.10341	27
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'WILKES 345KV'	59	-0.02872	-0.10455	27
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'WILKES 138KV'	18	-0.032	-0.10127	28
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'COMANCHE 69KV'	63	0.02576	-0.08786	32
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'SOUTHWESTERN STATION 138KV'	33	0.02715	-0.08925	32
WFEC	'MORLND 138KV'	320	0.02294	WFEC	'HUGO 138KV'	450	0.11213	-0.08919	32
WFEC	'ANADARKO 138KV'	39	0.02776	WFEC	'HUGO 138KV'	450	0.11213	-0.08437	33
WFEC	'ANADARKO 138KV'	90	0.02776	WFEC	'HUGO 138KV'	450	0.11213	-0.08437	33
WFEC	'ANADARKO 69KV'	76	0.02762	WFEC	'HUGO 138KV'	450	0.11213	-0.08451	33
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'COMANCHE 138KV'	160	0.02448	-0.08658	33
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'RIVERSIDE STATION 138KV'	245	0.02274	-0.08484	33
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'WEATHERFORD 34KV'	148	0.02437	-0.08647	33
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'COGENTRIX 345KV'	665	0.02125	-0.08335	34
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'NORTHEASTERN STATION 138KV'	207	0.01995	-0.08205	34
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'NORTHEASTERN STATION 138KV'	95	0.01995	-0.08205	34
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'OEC 345KV'	156	0.02027	-0.08237	34
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'FLINT CREEK 161KV'	400	0.01729	-0.07939	35
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'NORTHEASTERN STATION 345KV'	550	0.01951	-0.08161	35
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'FITZHUGH 161KV'	92	0.01208	-0.07418	38
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03267	AEPW	'SOUTHWESTERN STATION 138KV'	33	0.02715	-0.05982	47
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03267	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05843	48
AEPW	'WILKES 138KV'	445	-0.032	AEPW	'SOUTHWESTERN STATION 138KV'	33	0.02715	-0.05915	48
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03267	AEPW	'COMANCHE 138KV'	160	0.02448	-0.05715	49
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03267	AEPW	'WEATHERFORD 34KV'	148	0.02437	-0.05704	49
AEPW	'WELSH 345KV'	54	-0.02986	AEPW	'SOUTHWESTERN STATION 138KV'	33	0.02715	-0.05701	49
AEPW	'WILKES 138KV'	445	-0.032	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05776	49
AEPW	'WILKES 138KV'	445	-0.032	AEPW	'COMANCHE 138KV'	160	0.02448	-0.05648	50
AEPW	'WILKES 138KV'	445	-0.032	AEPW	'WEATHERFORD 34KV'	148	0.02437	-0.05637	50
AEPW	'WILKES 345KV'	252	-0.02872	AEPW	'SOUTHWESTERN STATION 138KV'	33	0.02715	-0.05587	50
AEPW	'EASTMAN 138KV'	330	-0.02807	AEPW	'SOUTHWESTERN STATION 138KV'	33	0.02715	-0.05522	51
AEPW	'KNOXLEE 138KV'	321	-0.02783	AEPW	'SOUTHWESTERN STATION 138KV'	33	0.02715	-0.05498	51
AEPW	'KNOXLEE 138KV'	60	-0.02783	AEPW	'SOUTHWESTERN STATION 138KV'	33	0.02715	-0.05498	51
AEPW	'LEBROCK 345KV'	332	-0.02761	AEPW	'SOUTHWESTERN STATION 138KV'	33	0.02715	-0.05476	51
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03267	AEPW	'RIVERSIDE STATION 138KV'	245	0.02274	-0.05541	51
AEPW	'PIRKEY GENERATION 138KV'	75	-0.02778	AEPW	'SOUTHWESTERN STATION 138KV'	33	0.02715	-0.05493	51
AEPW	'WELSH 345KV'	54	-0.02986	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05562	51
AEPW	'WILKES 138KV'	445	-0.032	AEPW	'RIVERSIDE STATION 138KV'	245	0.02274	-0.05474	51
AEPW	'EASTMAN 138KV'	330	-0.02807	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05383	52
SWPA	'JONESBORO 161KV'	76	0.00185	SWPA	'DENISON 138KV'	66	0.05622	-0.05437	52
SWPA	'KENNETT 69KV'	29	0.00229	SWPA	'DENISON 138KV'	66	0.05622	-0.05393	52
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03267	AEPW	'COGENTRIX 345KV'	665	0.02125	-0.05392	52
SWPA	'PARAGOULD 69KV'	18	0.00204	SWPA	'DENISON 138KV'	66	0.05622	-0.05418	52
AEPW	'WELSH 345KV'	54	-0.02986	AEPW	'COMANCHE 138KV'	160	0.02448	-0.05434	52
AEPW	'WELSH 345KV'	54	-0.02986	AEPW	'WEATHERFORD 34KV'	148	0.02437	-0.05423	52
AEPW	'WILKES 345KV'	252	-0.02872	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05448	52
AEPW	'KNOXLEE 138KV'	321	-0.02783	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05359	53
AEPW	'KNOXLEE 138KV'	60	-0.02783	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05359	53
AEPW	'LEBROCK 345KV'	332	-0.02761	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05337	53
AEPW	'LIEBERMAN 138KV'	224	-0.02624	AEPW	'SOUTHWESTERN STATION 138KV'	33	0.02715	-0.05339	53
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03267	AEPW	'OEC 345KV'	156	0.02027	-0.05294	53
AEPW	'PIRKEY GENERATION 138KV'	75	-0.02778	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05354	53
AEPW	'TENASKA GATEWAY 345KV'	937	-0.02631	AEPW	'SOUTHWESTERN STATION 138KV'	33	0.02715	-0.05346	53
AEPW	'WILKES 138KV'	445	-0.032	AEPW	'COGENTRIX 345KV'	665	0.02125	-0.05325	53
AEPW	'WILKES 345KV'	252	-0.02872	AEPW	'COMANCHE 138KV'	160	0.02448	-0.0532	53
AEPW	'WILKES 345KV'	252	-0.02872	AEPW	'WEATHERFORD 34KV'	148	0.02437	-0.05309	53
AEPW	'ARSENAL HILL 69KV'	99	-0.02547	AEPW	'SOUTHWESTERN STATION 138KV'	33	0.02715	-0.05262	54
AEPW	'EASTMAN 138KV'	330	-0.02807	AEPW	'COMANCHE 138KV'	160	0.02448	-0.05255	54

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: BROKEN BOW - CRAIG JUNCTION 138KV CKT 1  
 Limiting Facility: BROKEN BOW - CRAIG JUNCTION 138KV CKT 1  
 Direction: From->To

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

Line Outage: CRAIG JUNCTION - MOUNTAIN RIVER 138KV CKT 1  
 Flowgate: 52814540151540155600413107G  
 Date Redispatch Needed: Starting 2007 4/1 - 6/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Spring Peak

Reservation	Relief Amount	Aggregate Relief Amount								
1079577		0.8	1							
1087908		0.3	1							
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)	
SWPA	'BEAVER 161KV'	34	0.01453	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.55338	2	
SWPA	'BULL SHOALS 161KV'	91	0.00795	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.55996	2	
SWPA	'CARTHAGE 69KV'	32	0.01474	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.55317	2	
SWPA	'CLARENCE CANNON DAM 69KV'	58	0.00784	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.56007	2	
SWPA	'DARDANELLE 161KV'	42	0.00537	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.56254	2	
SWPA	'DENISON 138KV'	18	0.05627	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.51164	2	
SWPA	'EUFAULA 138KV'	16	0.03387	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.53404	2	
SWPA	'EUFAULA 161KV'	8	0.03383	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.53408	2	
SWPA	'FORT GIBSON 161KV'	13	0.02196	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.54595	2	
SWPA	'GREERS FERRY 161KV'	29	0.00227	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.56564	2	
SWPA	'INDEPENDENCE 161KV'	13	0.00216	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.56575	2	
SWPA	'JONESBORO 161KV'	76	0.00182	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.56609	2	
SWPA	'KENNETT 69KV'	29	0.00227	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.56564	2	
SWPA	'KEYSTONE DAM 161KV'	18	0.0226	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.54531	2	
SWPA	'MALDEN 69KV'	14	0.00246	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.56545	2	
SWPA	'NORFORK 161KV'	22	0.00614	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.56177	2	
SWPA	'OZARK 161KV'	47	0.01204	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.55587	2	
SWPA	'PARAGOULD 69KV'	18	0.00201	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.56579	2	
SWPA	'PIGGOTT 69KV'	8	0.00234	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.56557	2	
SWPA	'POPLAR BLUFF 69KV'	13	0.00336	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.56455	2	
SWPA	'ROBERT S. KERR 161KV'	33	0.02016	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.54775	2	
SWPA	'STOCKTON 161KV'	14	0.01246	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.55545	2	
SWPA	'TABLE ROCK 161KV'	58	0.01185	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.55606	2	
SWPA	'TENKILLER FERRY 161KV'	11	0.02634	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.54157	2	
SWPA	'TRUMAN 161KV'	92	0.01068	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.55723	2	
SWPA	'WEBBERS FALLS 161KV'	35	0.02634	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.54157	2	
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'COGENTRIX 345KV'	665	0.02061	-0.15389	7	
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'COMANCHE 138KV'	160	0.02448	-0.15776	7	
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'COMANCHE 69KV'	63	0.02576	-0.15904	7	
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'FLINT CREEK 161KV'	400	0.01732	-0.1506	7	
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'LD13 69KV'	11	0.01508	-0.14836	7	
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'NORTHEASTERN STATION 138KV'	304	0.02011	-0.15339	7	
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'NORTHEASTERN STATION 138KV'	95	0.02011	-0.15339	7	
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'NORTHEASTERN STATION 345KV'	550	0.01951	-0.15279	7	
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'OEC 345KV'	256	0.02014	-0.15342	7	
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'RIVERSIDE STATION 138KV'	422	0.02379	-0.15707	7	
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02717	-0.16045	7	
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'TULSA POWER STATION 138KV'	38	0.02304	-0.15632	7	
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'WEATHERFORD 34KV'	148	0.02439	-0.15767	7	
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'FITZHUGH 161KV'	89	0.01206	-0.14534	8	
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'EASTMAN 138KV'	155	-0.02801	-0.10527	10	
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'KNOXLEE 138KV'	103	-0.02777	-0.10551	10	
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'LEBROCK 345KV'	365	-0.0276	-0.10568	10	
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'LIEBERMAN 138KV'	74	-0.02626	-0.10702	10	
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'PIRKEY GENERATION 138KV'	213	-0.02777	-0.10551	10	
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'WELSH 345KV'	1012	-0.02988	-0.1034	11	
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'WILKES 138KV'	133	-0.03209	-0.10119	11	
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'WILKES 345KV'	215	-0.02876	-0.10452	11	
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02717	-0.08929	12	
WFEC	'MORLND 138KV'	320	0.02296	WFEC	'HUGO 138KV'	450	0.11216	-0.0892	12	
WFEC	'ANADARKO 138KV'	43	0.02778	WFEC	'HUGO 138KV'	450	0.11216	-0.08438	13	
WFEC	'ANADARKO 138KV'	90	0.02778	WFEC	'HUGO 138KV'	450	0.11216	-0.08438	13	
WFEC	'ANADARKO 69KV'	76	0.02764	WFEC	'HUGO 138KV'	450	0.11216	-0.08452	13	
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'COGENTRIX 345KV'	665	0.02061	-0.08273	13	
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'COMANCHE 138KV'	160	0.02448	-0.0866	13	
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'COMANCHE 69KV'	63	0.02576	-0.08788	13	
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'NORTHEASTERN STATION 138KV'	304	0.02011	-0.08223	13	
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'NORTHEASTERN STATION 138KV'	95	0.02011	-0.08223	13	
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'OEC 345KV'	256	0.02014	-0.08226	13	
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'RIVERSIDE STATION 138KV'	422	0.02379	-0.08591	13	
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'TULSA POWER STATION 138KV'	38	0.02304	-0.08516	13	
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'WEATHERFORD 34KV'	148	0.02439	-0.08651	13	
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'FLINT CREEK 161KV'	400	0.01732	-0.07944	14	
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'LD13 69KV'	11	0.01508	-0.0772	14	
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'NORTHEASTERN STATION 345KV'	550	0.01951	-0.08163	14	
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'FITZHUGH 161KV'	89	0.01206	-0.07418	15	
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03283	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02717	-0.06	18	
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03283	AEPW	'COMANCHE 138KV'	160	0.02448	-0.05731	19	
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03283	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05859	19	
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03283	AEPW	'RIVERSIDE STATION 138KV'	422	0.02379	-0.05662	19	
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03283	AEPW	'WEATHERFORD 34KV'	148	0.02439	-0.05722	19	
AEPW	'WELSH 345KV'	32	-0.02988	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02717	-0.05705	19	
AEPW	'WILKES 138KV'	330	-0.03209	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05785	19	
AEPW	'WILKES 138KV'	330	-0.03209	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02717	-0.05926	19	
AEPW	'EASTMAN 138KV'	330	-0.02801	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02717	-0.05518	20	
SWPA	'GREERS FERRY 161KV'	29	0.00227	SWPA	'DENISON 138KV'	52	0.05627	-0.054	20	
SWPA	'INDEPENDENCE 161KV'	13	0.00216	SWPA	'DENISON 138KV'	52	0.05627	-0.05411	20	
SWPA	'JONESBORO 161KV'	76	0.00182	SWPA	'DENISON 138KV'	52	0.05627	-0.05445	20	
SWPA	'KENNETT 69KV'	29	0.00227	SWPA	'DENISON 138KV'	52	0.05627	-0.054	20	
AEPW	'KNOXLEE 138KV'	260	-0.02777	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02717	-0.05494	20	
AEPW	'KNOXLEE 138KV'	60	-0.02777	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02717	-0.05494	20	
AEPW	'LEBROCK 345KV'	332	-0.0276	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02717	-0.05477	20	
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03283	AEPW	'TULSA POWER STATION 138KV'	38	0.02304	-0.05587	20	
SWPA	'PARAGOULD 69KV'	18	0.00201	SWPA	'DENISON 138KV'	52	0.05627	-0.05426	20	

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

SWPA	'PIGGOTT 69KV'	8	0.00234	SWPA	'DENISON 138KV'	52	0.05627	-0.05393	20
AEPW	'PIRKEY GENERATION 138KV'	75	-0.02777	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02717	-0.05494	20
AEPW	'WELSH 345KV'	32	-0.02988	AEPW	'COMANCHE 138KV'	160	0.02448	-0.05436	20
AEPW	'WELSH 345KV'	32	-0.02988	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05564	20
AEPW	'WELSH 345KV'	32	-0.02988	AEPW	'WEATHERFORD 34KV'	148	0.02439	-0.05427	20
AEPW	'WILKES 138KV'	330	-0.03209	AEPW	'COMANCHE 138KV'	160	0.02448	-0.05657	20
AEPW	'WILKES 138KV'	330	-0.03209	AEPW	'RIVERSIDE STATION 138KV'	422	0.02379	-0.05588	20
AEPW	'WILKES 138KV'	330	-0.03209	AEPW	'TULSA POWER STATION 138KV'	38	0.02304	-0.05513	20
AEPW	'WILKES 138KV'	330	-0.03209	AEPW	'WEATHERFORD 34KV'	148	0.02439	-0.05648	20
AEPW	'WILKES 345KV'	96	-0.02876	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05452	20
AEPW	'WILKES 345KV'	96	-0.02876	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02717	-0.05593	20
AEPW	'ARSENAL HILL 69KV'	99	-0.02549	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02717	-0.05266	21
AEPW	'EASTMAN 138KV'	330	-0.02801	AEPW	'COMANCHE 138KV'	160	0.02448	-0.05249	21
AEPW	'EASTMAN 138KV'	330	-0.02801	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05377	21
AEPW	'EASTMAN 138KV'	330	-0.02801	AEPW	'RIVERSIDE STATION 138KV'	422	0.02379	-0.0518	21
AEPW	'EASTMAN 138KV'	330	-0.02801	AEPW	'WEATHERFORD 34KV'	148	0.02439	-0.0524	21

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: BROKEN BOW - CRAIG JUNCTION 138KV CKT 1  
 Limiting Facility: BROKEN BOW - CRAIG JUNCTION 138KV CKT 1  
 Direction: From->To  
 Line Outage: CRAIG JUNCTION - MOUNTAIN RIVER 138KV CKT 1  
 Flowgate: 52814540151540155600413107WP  
 Date Redispatch Needed: 12/1/07 - 4/1/08  
 Season Flowgate Identified: 2007 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount
1079577	0.8	4
1087908	0.3	4
1089945	1.7	4
1089952	1.3	4

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
SWPA	'BULL SHOALS 161KV'	96	0.00807	SWPA	'BROKEN BOW 138KV'	80	0.56797	-0.5599	7
SWPA	'CLARENCE CANNON DAM 69KV'	58	0.00785	SWPA	'BROKEN BOW 138KV'	80	0.56797	-0.56012	7
SWPA	'DARDANELLE 161KV'	44	0.00557	SWPA	'BROKEN BOW 138KV'	80	0.56797	-0.5624	7
SWPA	'GREERS FERRY 161KV'	30	0.00243	SWPA	'BROKEN BOW 138KV'	80	0.56797	-0.56554	7
SWPA	'INDEPENDENCE 161KV'	13	0.00231	SWPA	'BROKEN BOW 138KV'	80	0.56797	-0.56566	7
SWPA	'JONESBORO 161KV'	3	0.00195	SWPA	'BROKEN BOW 138KV'	80	0.56797	-0.56602	7
SWPA	'KENNETT 69KV'	29	0.00238	SWPA	'BROKEN BOW 138KV'	80	0.56797	-0.56559	7
SWPA	'MALDEN 69KV'	15	0.00255	SWPA	'BROKEN BOW 138KV'	80	0.56797	-0.56542	7
SWPA	'NORFORK 161KV'	24	0.00625	SWPA	'BROKEN BOW 138KV'	80	0.56797	-0.56172	7
SWPA	'PARAGOULD 69KV'	18	0.00213	SWPA	'BROKEN BOW 138KV'	80	0.56797	-0.56584	7
SWPA	'PIGGOTT 69KV'	8	0.00244	SWPA	'BROKEN BOW 138KV'	80	0.56797	-0.56553	7
SWPA	'POPLAR BLUFF 69KV'	13	0.0035	SWPA	'BROKEN BOW 138KV'	80	0.56797	-0.56447	7
SWPA	'TRUMAN 161KV'	93	0.01066	SWPA	'BROKEN BOW 138KV'	80	0.56797	-0.55731	7
SWPA	'BEAVER 161KV'	40	0.0146	SWPA	'BROKEN BOW 138KV'	80	0.56797	-0.55337	8
SWPA	'CARTHAGE 69KV'	20	0.01477	SWPA	'BROKEN BOW 138KV'	80	0.56797	-0.5532	8
SWPA	'DENISON 138KV'	19	0.05631	SWPA	'BROKEN BOW 138KV'	80	0.56797	-0.51166	8
SWPA	'EUFAULA 138KV'	17	0.03385	SWPA	'BROKEN BOW 138KV'	80	0.56797	-0.53412	8
SWPA	'EUFAULA 161KV'	8	0.03381	SWPA	'BROKEN BOW 138KV'	80	0.56797	-0.53416	8
SWPA	'FORT GIBSON 161KV'	14	0.022	SWPA	'BROKEN BOW 138KV'	80	0.56797	-0.54597	8
SWPA	'KEYSTONE DAM 161KV'	19	0.02239	SWPA	'BROKEN BOW 138KV'	80	0.56797	-0.54558	8
SWPA	'OZARK 161KV'	49	0.01221	SWPA	'BROKEN BOW 138KV'	80	0.56797	-0.55576	8
SWPA	'ROBERT S. KERR 161KV'	35	0.02027	SWPA	'BROKEN BOW 138KV'	80	0.56797	-0.5477	8
SWPA	'STOCKTON 161KV'	14	0.01249	SWPA	'BROKEN BOW 138KV'	80	0.56797	-0.55548	8
SWPA	'TABLE ROCK 161KV'	61	0.01191	SWPA	'BROKEN BOW 138KV'	80	0.56797	-0.55606	8
SWPA	'TENKILLER FERRY 161KV'	12	0.02636	SWPA	'BROKEN BOW 138KV'	80	0.56797	-0.54161	8
SWPA	'WEBBERS FALLS 161KV'	36	0.02636	SWPA	'BROKEN BOW 138KV'	80	0.56797	-0.54161	8
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'COMANCHE 138KV'	160	0.02456	-0.15771	26
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'COMANCHE 69KV'	63	0.02584	-0.15899	26
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'SOUTHWESTERN STATION 138KV'	86	0.02723	-0.16038	26
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'COGENTRIX 345KV'	665	0.02134	-0.15449	27
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'NORTHEASTERN STATION 138KV'	221	0.02003	-0.15318	27
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'NORTHEASTERN STATION 138KV'	95	0.02003	-0.15318	27
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'NORTHEASTERN STATION 345KV'	600	0.01959	-0.15274	27
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'OEC 345KV'	256	0.02036	-0.15351	27
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'RIVERSIDE STATION 138KV'	245	0.02283	-0.15598	27
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'WEATHERFORD 34KV'	148	0.02445	-0.1576	27
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'FLINT CREEK 161KV'	400	0.01738	-0.15053	28
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'L&D13 69KV'	11	0.01523	-0.14838	28
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'FITZHUGH 161KV'	81	0.01223	-0.14538	29
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'LIEBERMAN 138KV'	74	-0.02612	-0.10703	39
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'EASTMAN 138KV'	155	-0.02795	-0.1052	40
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'KNOXLEE 138KV'	103	-0.02772	-0.10543	40
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'LEBROCK 345KV'	365	-0.0275	-0.10565	40
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'PIRKEY GENERATION 138KV'	223	-0.02767	-0.10548	40
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'WELSH 345KV'	975	-0.02975	-0.1034	40
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'WILKES 345KV'	219	-0.02861	-0.10454	40
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'WILKES 138KV'	140	-0.03189	-0.10126	41
AEPW	'FULTON 115KV'	153	-0.06196	AEPW	'SOUTHWESTERN STATION 138KV'	86	0.02723	-0.08919	47
WFEC	'MORLND 138KV'	133	0.02302	WFEC	'HUGO 138KV'	450	0.11223	-0.08921	47
AEPW	'FULTON 115KV'	153	-0.06196	AEPW	'COMANCHE 138KV'	160	0.02456	-0.08652	48
AEPW	'FULTON 115KV'	153	-0.06196	AEPW	'COMANCHE 69KV'	63	0.02584	-0.0878	48
AEPW	'FULTON 115KV'	153	-0.06196	AEPW	'WEATHERFORD 34KV'	148	0.02445	-0.08641	48
WFEC	'ANADARKO 69KV'	76	0.0277	WFEC	'HUGO 138KV'	450	0.11223	-0.08453	49
AEPW	'FULTON 115KV'	153	-0.06196	AEPW	'RIVERSIDE STATION 138KV'	245	0.02283	-0.08479	49
WFEC	'ANADARKO 138KV'	90	0.02784	WFEC	'HUGO 138KV'	450	0.11223	-0.08439	50
AEPW	'FULTON 115KV'	153	-0.06196	AEPW	'COGENTRIX 345KV'	665	0.02134	-0.0833	50
AEPW	'FULTON 115KV'	153	-0.06196	AEPW	'NORTHEASTERN STATION 138KV'	221	0.02003	-0.08199	51
AEPW	'FULTON 115KV'	153	-0.06196	AEPW	'NORTHEASTERN STATION 138KV'	95	0.02003	-0.08199	51



Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

AEPW	'FULTON 115KV'	153	-0.06196	AEPW	'NORTHEASTERN STATION 345KV'	600	0.01959	-0.08155	51
AEPW	'FULTON 115KV'	153	-0.06196	AEPW	'OEC 345KV'	256	0.02036	-0.08232	51
AEPW	'FULTON 115KV'	153	-0.06196	AEPW	'FLINT CREEK 161KV'	400	0.01738	-0.07934	53
AEPW	'FULTON 115KV'	153	-0.06196	AEPW	'FITZHUGH 161KV'	81	0.01223	-0.07419	56
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03256	AEPW	'SOUTHWESTERN STATION 138KV'	86	0.02723	-0.05979	70
AEPW	'WILKES 138KV'	323	-0.03189	AEPW	'SOUTHWESTERN STATION 138KV'	86	0.02723	-0.05912	71
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03256	AEPW	'COMANCHE 69KV'	63	0.02584	-0.05484	72
AEPW	'WILKES 138KV'	323	-0.03189	AEPW	'COMANCHE 69KV'	63	0.02584	-0.05773	72
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03256	AEPW	'COMANCHE 138KV'	160	0.02456	-0.05712	73
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03256	AEPW	'WEATHERFORD 34KV'	148	0.02445	-0.05701	73
AEPW	'WELSH 345KV'	69	-0.02975	AEPW	'SOUTHWESTERN STATION 138KV'	86	0.02723	-0.05698	73
AEPW	'WILKES 138KV'	323	-0.03189	AEPW	'COMANCHE 138KV'	160	0.02456	-0.05645	74
AEPW	'WILKES 138KV'	323	-0.03189	AEPW	'WEATHERFORD 34KV'	148	0.02445	-0.05634	74
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03256	AEPW	'RIVERSIDE STATION 138KV'	245	0.02283	-0.05539	75
AEPW	'WELSH 345KV'	69	-0.02975	AEPW	'COMANCHE 69KV'	63	0.02584	-0.05559	75
AEPW	'WILKES 345KV'	92	-0.02861	AEPW	'SOUTHWESTERN STATION 138KV'	86	0.02723	-0.05584	75
AEPW	'EASTMAN 138KV'	330	-0.02795	AEPW	'SOUTHWESTERN STATION 138KV'	86	0.02723	-0.05518	76
AEPW	'KNOXLEE 138KV'	260	-0.02772	AEPW	'SOUTHWESTERN STATION 138KV'	86	0.02723	-0.05495	76
AEPW	'KNOXLEE 138KV'	60	-0.02772	AEPW	'SOUTHWESTERN STATION 138KV'	86	0.02723	-0.05495	76
AEPW	'LEBROCK 345KV'	332	-0.0275	AEPW	'SOUTHWESTERN STATION 138KV'	86	0.02723	-0.05473	76
AEPW	'PIRKEY GENERATION 138KV'	65	-0.02767	AEPW	'SOUTHWESTERN STATION 138KV'	86	0.02723	-0.0549	76
AEPW	'WILKES 138KV'	323	-0.03189	AEPW	'RIVERSIDE STATION 138KV'	245	0.02283	-0.05472	76
SWPA	'KENNETT 69KV'	29	0.00238	SWPA	'DENISON 138KV'	51	0.05631	-0.05393	77
AEPW	'WELSH 345KV'	69	-0.02975	AEPW	'COMANCHE 138KV'	160	0.02456	-0.05431	77
AEPW	'WELSH 345KV'	69	-0.02975	AEPW	'WEATHERFORD 34KV'	148	0.02445	-0.0542	77
AEPW	'WILKES 345KV'	92	-0.02861	AEPW	'COMANCHE 69KV'	63	0.02584	-0.05445	77
AEPW	'EASTMAN 138KV'	330	-0.02795	AEPW	'COMANCHE 69KV'	63	0.02584	-0.05379	78
SWPA	'GREERS FERRY 161KV'	30	0.00243	SWPA	'DENISON 138KV'	51	0.05631	-0.05388	78
AEPW	'KNOXLEE 138KV'	260	-0.02772	AEPW	'COMANCHE 69KV'	63	0.02584	-0.05356	78
AEPW	'KNOXLEE 138KV'	60	-0.02772	AEPW	'COMANCHE 69KV'	63	0.02584	-0.05356	78
AEPW	'LEBROCK 345KV'	332	-0.0275	AEPW	'COMANCHE 69KV'	63	0.02584	-0.05334	78
AEPW	'LIEBERMAN 138KV'	154	-0.02612	AEPW	'SOUTHWESTERN STATION 138KV'	86	0.02723	-0.05335	78
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03256	AEPW	'COGENTRIX 345KV'	665	0.02134	-0.0539	78
AEPW	'PIRKEY GENERATION 138KV'	65	-0.02767	AEPW	'COMANCHE 69KV'	63	0.02584	-0.05351	78
AEPW	'TENASKA GATEWAY 345KV'	937	-0.0262	AEPW	'SOUTHWESTERN STATION 138KV'	86	0.02723	-0.05343	78
AEPW	'WILKES 138KV'	323	-0.03189	AEPW	'COGENTRIX 345KV'	665	0.02134	-0.05323	78
AEPW	'ARSENAL HILL 69KV'	99	-0.02535	AEPW	'SOUTHWESTERN STATION 138KV'	86	0.02723	-0.05258	79
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03256	AEPW	'NORTHEASTERN STATION 138KV'	221	0.02003	-0.05259	79
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03256	AEPW	'NORTHEASTERN STATION 138KV'	95	0.02003	-0.05259	79
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03256	AEPW	'OEC 345KV'	256	0.02036	-0.05292	79
AEPW	'WELSH 345KV'	69	-0.02975	AEPW	'RIVERSIDE STATION 138KV'	245	0.02283	-0.05258	79
AEPW	'WILKES 345KV'	92	-0.02861	AEPW	'COMANCHE 138KV'	160	0.02456	-0.05317	79

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: BROKEN BOW - CRAIG JUNCTION 138KV CKT 1  
 Limiting Facility: BROKEN BOW - CRAIG JUNCTION 138KV CKT 1  
 Direction: From->To  
 Line Outage: CRAIG JUNCTION - MOUNTAIN RIVER 138KV CKT 1  
 Flowgate: 52814540151540155600414107SP  
 Date Redispatch Needed: 6/1/07 - 10/1/07  
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount
1079577	0.1	0
1087908	0.1	0
1089952	0.2	0

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
SWPA	'BEAVER 161KV'	23	0.0145	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.55335	1
SWPA	'BULL SHOALS 161KV'	52	0.00796	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.55989	1
SWPA	'CARTHAGE 69KV'	2	0.01468	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.55317	1
SWPA	'CLARENCE CANNON DAM 69KV'	9	0.00781	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.56004	1
SWPA	'DARDANELLE 161KV'	56	0.0054	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.56245	1
SWPA	'DENISON 138KV'	11	0.0562	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.51165	1
SWPA	'EUFULA 138KV'	9	0.03372	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.53413	1
SWPA	'EUFULA 161KV'	5	0.03368	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.53417	1
SWPA	'FORT GIBSON 161KV'	8	0.02188	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.54597	1
SWPA	'GREERS FERRY 161KV'	17	0.00227	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.56558	1
SWPA	'INDEPENDENCE 161KV'	13	0.00217	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.56568	1
SWPA	'KENNETT 69KV'	22	0.00229	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.56556	1
SWPA	'KEYSTONE DAM 161KV'	11	0.02228	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.54557	1
SWPA	'MALDEN 69KV'	10	0.00248	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.56537	1
SWPA	'NORFORK 161KV'	65	0.00615	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.5617	1
SWPA	'OZARK 161KV'	37	0.01205	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.5558	1
SWPA	'PARAGOULD 69KV'	12	0.00203	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.56582	1
SWPA	'PIGGOTT 69KV'	8	0.00236	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.56549	1
SWPA	'POPLAR BLUFF 69KV'	7	0.00343	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.56442	1
SWPA	'ROBERT S. KERR 161KV'	19	0.02012	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.54773	1
SWPA	'STOCKTON 161KV'	8	0.01241	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.55544	1
SWPA	'TABLE ROCK 161KV'	33	0.01182	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.55603	1
SWPA	'TENKILLER FERRY 161KV'	26	0.02623	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.54162	1
SWPA	'TRUMAN 161KV'	78	0.0106	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.55725	1
SWPA	'WEBBERS FALLS 161KV'	30	0.02623	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.54162	1
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'WELEETKA 138KV'	70	0.05321	-0.18649	2
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'COGENTRIX 345KV'	665	0.02123	-0.15451	3
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'COMANCHE 138KV'	160	0.02446	-0.15774	3
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'COMANCHE 69KV'	63	0.02574	-0.15902	3
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'FITZHUGH 161KV'	126	0.01207	-0.14535	3
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'FLINT CREEK 161KV'	420	0.01728	-0.15056	3
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'LD13 69KV'	11	0.01508	-0.14836	3
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'NORTHEASTERN STATION 138KV'	405	0.01993	-0.15321	3

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'NORTHEASTERN STATION 138KV'	95	0.01993	-0.15321	3
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'NORTHEASTERN STATION 345KV'	645	0.01949	-0.15277	3
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'OEC 345KV'	156	0.02025	-0.15353	3
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'RIVERSIDE STATION 138KV'	646	0.02272	-0.156	3
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'SOUTHWESTERN STATION 138KV'	268	0.02713	-0.16041	3
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'TULSA POWER STATION 138KV'	111	0.02211	-0.15539	3
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'TULSA POWER STATION 138KV'	75	0.02211	-0.15539	3
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'WEATHERFORD 34KV'	148	0.02435	-0.15763	3
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'WELEETKA 138KV'	70	0.05321	-0.11531	4
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'EASTMAN 138KV'	155	-0.02808	-0.1052	4
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'KNOXLEE 138KV'	201	-0.02784	-0.10544	4
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'LEBROCK 345KV'	365	-0.02762	-0.10566	4
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'LIEBERMAN 138KV'	74	-0.02624	-0.10704	4
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'PIRKEY GENERATION 138KV'	248	-0.02779	-0.10549	4
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'WELSH 345KV'	990	-0.02987	-0.10341	4
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'WILKES 138KV'	314	-0.03201	-0.10127	4
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'WILKES 345KV'	311	-0.02873	-0.10455	4
WFEC	'ANADARKO 138KV'	5	0.02774	WFEC	'HUGO 138KV'	450	0.11211	-0.08437	5
WFEC	'ANADARKO 138KV'	90	0.02774	WFEC	'HUGO 138KV'	450	0.11211	-0.08437	5
WFEC	'ANADARKO 69KV'	76	0.0276	WFEC	'HUGO 138KV'	450	0.11211	-0.08451	5
AEPW	'ARSENAL HILL 69KV'	99	-0.02548	AEPW	'WELEETKA 138KV'	70	0.05321	-0.07869	5
AEPW	'EASTMAN 138KV'	330	-0.02808	AEPW	'WELEETKA 138KV'	70	0.05321	-0.08129	5
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'COGENTRIX 345KV'	665	0.02123	-0.08333	5
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'COMANCHE 138KV'	160	0.02446	-0.08656	5
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'COMANCHE 69KV'	63	0.02574	-0.08784	5
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'FLINT CREEK 161KV'	420	0.01728	-0.07938	5
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'LD13 69KV'	11	0.01508	-0.07718	5
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'NORTHEASTERN STATION 138KV'	405	0.01993	-0.08203	5
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'NORTHEASTERN STATION 138KV'	95	0.01993	-0.08203	5
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'NORTHEASTERN STATION 345KV'	645	0.01949	-0.08159	5
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'OEC 345KV'	156	0.02025	-0.08235	5
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'RIVERSIDE STATION 138KV'	646	0.02272	-0.08482	5
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'SOUTHWESTERN STATION 138KV'	268	0.02713	-0.08923	5
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'TULSA POWER STATION 138KV'	111	0.02211	-0.08421	5
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'TULSA POWER STATION 138KV'	75	0.02211	-0.08421	5
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'WEATHERFORD 34KV'	148	0.02435	-0.08645	5
AEPW	'KNOXLEE 138KV'	162	-0.02784	AEPW	'WELEETKA 138KV'	70	0.05321	-0.08105	5
AEPW	'KNOXLEE 138KV'	60	-0.02784	AEPW	'WELEETKA 138KV'	70	0.05321	-0.08105	5
AEPW	'LEBROCK 345KV'	332	-0.02762	AEPW	'WELEETKA 138KV'	70	0.05321	-0.08083	5
AEPW	'LIEBERMAN 138KV'	154	-0.02624	AEPW	'WELEETKA 138KV'	70	0.05321	-0.07945	5
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03268	AEPW	'WELEETKA 138KV'	70	0.05321	-0.08589	5
WFEC	'MORLND 138KV'	25	0.02292	WFEC	'HUGO 138KV'	450	0.11211	-0.08919	5
AEPW	'NORTH MARSHALL 69KV'	5	-0.02812	AEPW	'WELEETKA 138KV'	70	0.05321	-0.08133	5
AEPW	'PIRKEY GENERATION 138KV'	40	-0.02779	AEPW	'WELEETKA 138KV'	70	0.05321	-0.081	5
AEPW	'TENASKA GATEWAY 345KV'	937	-0.02632	AEPW	'WELEETKA 138KV'	70	0.05321	-0.07953	5
AEPW	'WELSH 345KV'	54	-0.02987	AEPW	'WELEETKA 138KV'	70	0.05321	-0.08308	5
AEPW	'WILKES 138KV'	149	-0.03201	AEPW	'WELEETKA 138KV'	70	0.05321	-0.08522	5
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'FITZHUGH 161KV'	126	0.01207	-0.07417	6
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03268	AEPW	'COMANCHE 138KV'	160	0.02446	-0.05714	7
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03268	AEPW	'COMANCHE 69KV'	63	0.02574	-0.05842	7
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03268	AEPW	'SOUTHWESTERN STATION 138KV'	268	0.02713	-0.05981	7
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03268	AEPW	'WEATHERFORD 34KV'	148	0.02435	-0.05703	7
AEPW	'WELSH 345KV'	54	-0.02987	AEPW	'SOUTHWESTERN STATION 138KV'	268	0.02713	-0.057	7
AEPW	'WILKES 138KV'	149	-0.03201	AEPW	'COMANCHE 138KV'	160	0.02446	-0.05647	7
AEPW	'WILKES 138KV'	149	-0.03201	AEPW	'COMANCHE 69KV'	63	0.02574	-0.05775	7
AEPW	'WILKES 138KV'	149	-0.03201	AEPW	'SOUTHWESTERN STATION 138KV'	268	0.02713	-0.05914	7
AEPW	'WILKES 138KV'	149	-0.03201	AEPW	'WEATHERFORD 34KV'	148	0.02435	-0.05636	7
AEPW	'ARSENAL HILL 69KV'	99	-0.02548	AEPW	'COMANCHE 138KV'	160	0.02446	-0.04994	8
AEPW	'ARSENAL HILL 69KV'	99	-0.02548	AEPW	'COMANCHE 69KV'	63	0.02574	-0.05122	8
AEPW	'ARSENAL HILL 69KV'	99	-0.02548	AEPW	'SOUTHWESTERN STATION 138KV'	268	0.02713	-0.05261	8
AEPW	'ARSENAL HILL 69KV'	99	-0.02548	AEPW	'WEATHERFORD 34KV'	148	0.02435	-0.04983	8
SWPA	'DARDANELLE 161KV'	56	0.0054	SWPA	'DENISON 138KV'	59	0.0562	-0.0508	8
AEPW	'EASTMAN 138KV'	330	-0.02808	AEPW	'COMANCHE 138KV'	160	0.02446	-0.05254	8
AEPW	'EASTMAN 138KV'	330	-0.02808	AEPW	'COMANCHE 69KV'	63	0.02574	-0.05382	8
AEPW	'EASTMAN 138KV'	330	-0.02808	AEPW	'RIVERSIDE STATION 138KV'	646	0.02272	-0.0508	8
AEPW	'EASTMAN 138KV'	330	-0.02808	AEPW	'SOUTHWESTERN STATION 138KV'	268	0.02713	-0.05521	8
AEPW	'EASTMAN 138KV'	330	-0.02808	AEPW	'TULSA POWER STATION 138KV'	111	0.02211	-0.05019	8

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: BROKEN BOW - CRAIG JUNCTION 138KV CKT 1  
 Limiting Facility: BROKEN BOW - CRAIG JUNCTION 138KV CKT 1  
 Direction: From->To  
 Line Outage: BBDAMTP4 - MOUNTAIN RIVER 138KV CKT 1  
 Flowgate: 52814540151558235600411106WP  
 Date Redispatch Needed: 12/1/06 - 4/1/07  
 Season Flowgate Identified: 2006 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount
1079577		0.8
1087908		0.3
		1

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
SWPA	'BEAVER 161KV'	40	0.01453	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.55338	2
SWPA	'BULL SHOALS 161KV'	98	0.00796	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.55995	2
SWPA	'CARTHAGE 69KV'	21	0.01474	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.55317	2
SWPA	'CLARENCE CANNON DAM 69KV'	58	0.00786	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.56005	2
SWPA	'DARDANELLE 161KV'	46	0.00537	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.56254	2
SWPA	'DENISON 138KV'	20	0.05626	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.51165	2
SWPA	'EUFAULA 138KV'	17	0.03387	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.53404	2
SWPA	'EUFAULA 161KV'	9	0.03384	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.53407	2
SWPA	'FORT GIBSON 161KV'	14	0.02196	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.54595	2

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

SWPA	'GREERS FERRY 161KV'	31	0.00228	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.56563	2
SWPA	'INDEPENDENCE 161KV'	13	0.00217	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.56574	2
SWPA	'JONESBORO 161KV'	3	0.00183	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.56608	2
SWPA	'KENNETT 69KV'	29	0.00228	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.56563	2
SWPA	'KEYSTONE DAM 161KV'	20	0.0226	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.54531	2
SWPA	'MALDEN 69KV'	15	0.00246	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.56545	2
SWPA	'NORFORK 161KV'	24	0.00615	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.56176	2
SWPA	'OZARK 161KV'	49	0.01204	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.55587	2
SWPA	'PARAGOULD 69KV'	18	0.00202	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.56589	2
SWPA	'PIGGOTT 69KV'	8	0.00234	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.56557	2
SWPA	'POPLAR BLUFF 69KV'	13	0.00336	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.56455	2
SWPA	'ROBERT S. KERR 161KV'	36	0.02016	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.54775	2
SWPA	'STOCKTON 161KV'	15	0.01246	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.55545	2
SWPA	'TABLE ROCK 161KV'	62	0.01185	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.55606	2
SWPA	'TENKILLER FERRY 161KV'	12	0.02634	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.54157	2
SWPA	'TRUMAN 161KV'	94	0.01068	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.55723	2
SWPA	'WEBBERS FALLS 161KV'	36	0.02634	SWPA	'BROKEN BOW 138KV'	79	0.56791	-0.54157	2
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'COGENTRIX 345KV'	665	0.02061	-0.15389	7
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'COMANCHE 138KV'	160	0.02447	-0.15775	7
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'COMANCHE 69KV'	63	0.02576	-0.15904	7
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'FITZHUGH 161KV'	81	0.01206	-0.14534	7
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'FLINT CREEK 161KV'	400	0.01732	-0.1506	7
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'L&D13 69KV'	11	0.01508	-0.14836	7
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'NORTHEASTERN STATION 138KV'	207	0.02011	-0.15339	7
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'NORTHEASTERN STATION 138KV'	95	0.02011	-0.15339	7
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'NORTHEASTERN STATION 345KV'	600	0.01951	-0.15279	7
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'OEC 345KV'	156	0.02013	-0.15341	7
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'RIVERSIDE STATION 138KV'	245	0.02379	-0.15707	7
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'SOUTHWESTERN STATION 138KV'	32	0.02716	-0.16044	7
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'WEATHERFORD 34KV'	148	0.02438	-0.15766	7
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'EASTMAN 138KV'	155	-0.02801	-0.10527	10
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'KNOXLEE 138KV'	103	-0.02777	-0.10551	10
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'LEBROCK 345KV'	365	-0.0276	-0.10568	10
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'LIEBERMAN 138KV'	4	-0.02626	-0.10702	10
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'PIRKEY GENERATION 138KV'	223	-0.02777	-0.10551	10
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'WELSH 345KV'	960	-0.02988	-0.1034	10
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'WILKES 345KV'	172	-0.02876	-0.10452	10
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'WILKES 138KV'	127	-0.03209	-0.10119	11
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'COMANCHE 138KV'	160	0.02447	-0.08659	12
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'COMANCHE 69KV'	63	0.02576	-0.08788	12
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'SOUTHWESTERN STATION 138KV'	32	0.02716	-0.08928	12
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'WEATHERFORD 34KV'	148	0.02438	-0.0865	12
WFEC	'MORLND 138KV'	320	0.02296	WFEC	'HUGO 138KV'	450	0.11216	-0.0892	12
WFEC	'ANADARKO 138KV'	68	0.02777	WFEC	'HUGO 138KV'	450	0.11216	-0.08439	13
WFEC	'ANADARKO 138KV'	90	0.02777	WFEC	'HUGO 138KV'	450	0.11216	-0.08439	13
WFEC	'ANADARKO 69KV'	76	0.02764	WFEC	'HUGO 138KV'	450	0.11216	-0.08452	13
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'COGENTRIX 345KV'	665	0.02061	-0.08273	13
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'NORTHEASTERN STATION 138KV'	207	0.02011	-0.08223	13
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'NORTHEASTERN STATION 138KV'	95	0.02011	-0.08223	13
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'NORTHEASTERN STATION 345KV'	600	0.01951	-0.08163	13
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'OEC 345KV'	156	0.02013	-0.08225	13
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'RIVERSIDE STATION 138KV'	245	0.02379	-0.08591	13
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'FLINT CREEK 161KV'	400	0.01732	-0.07944	14
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'L&D13 69KV'	11	0.01508	-0.0772	14
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'FITZHUGH 161KV'	81	0.01206	-0.07418	15
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03283	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05859	18
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03283	AEPW	'SOUTHWESTERN STATION 138KV'	32	0.02716	-0.05999	18
AEPW	'WILKES 138KV'	336	-0.03209	AEPW	'SOUTHWESTERN STATION 138KV'	32	0.02716	-0.05925	18
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03283	AEPW	'COMANCHE 138KV'	160	0.02447	-0.0573	19
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03283	AEPW	'RIVERSIDE STATION 138KV'	245	0.02379	-0.05662	19
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03283	AEPW	'WEATHERFORD 34KV'	148	0.02438	-0.05721	19
AEPW	'WELSH 345KV'	84	-0.02988	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05564	19
AEPW	'WELSH 345KV'	84	-0.02988	AEPW	'SOUTHWESTERN STATION 138KV'	32	0.02716	-0.05704	19
AEPW	'WILKES 138KV'	336	-0.03209	AEPW	'COMANCHE 138KV'	160	0.02447	-0.05656	19
AEPW	'WILKES 138KV'	336	-0.03209	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05785	19
AEPW	'WILKES 138KV'	336	-0.03209	AEPW	'RIVERSIDE STATION 138KV'	245	0.02379	-0.05588	19
AEPW	'WILKES 138KV'	336	-0.03209	AEPW	'WEATHERFORD 34KV'	148	0.02438	-0.05647	19
AEPW	'WILKES 345KV'	139	-0.02876	AEPW	'SOUTHWESTERN STATION 138KV'	32	0.02716	-0.05592	19
AEPW	'ARSENAL HILL 69KV'	99	-0.02549	AEPW	'SOUTHWESTERN STATION 138KV'	32	0.02716	-0.05265	20
AEPW	'EASTMAN 138KV'	330	-0.02801	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05377	20
AEPW	'EASTMAN 138KV'	330	-0.02801	AEPW	'SOUTHWESTERN STATION 138KV'	32	0.02716	-0.05517	20
SWPA	'GREERS FERRY 161KV'	31	0.00228	SWPA	'DENISON 138KV'	50	0.05626	-0.05398	20
SWPA	'INDEPENDENCE 161KV'	13	0.00217	SWPA	'DENISON 138KV'	50	0.05626	-0.05409	20
SWPA	'KENNETT 69KV'	29	0.00228	SWPA	'DENISON 138KV'	50	0.05626	-0.05398	20
AEPW	'KNOXLEE 138KV'	260	-0.02777	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05353	20
AEPW	'KNOXLEE 138KV'	60	-0.02777	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05353	20
AEPW	'KNOXLEE 138KV'	260	-0.02777	AEPW	'SOUTHWESTERN STATION 138KV'	32	0.02716	-0.05493	20
AEPW	'KNOXLEE 138KV'	60	-0.02777	AEPW	'SOUTHWESTERN STATION 138KV'	32	0.02716	-0.05493	20
AEPW	'LEBROCK 345KV'	332	-0.0276	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05336	20
AEPW	'LEBROCK 345KV'	332	-0.0276	AEPW	'SOUTHWESTERN STATION 138KV'	32	0.02716	-0.05476	20
AEPW	'LIEBERMAN 138KV'	224	-0.02626	AEPW	'SOUTHWESTERN STATION 138KV'	32	0.02716	-0.05342	20
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03283	AEPW	'COGENTRIX 345KV'	665	0.02061	-0.05344	20
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03283	AEPW	'NORTHEASTERN STATION 138KV'	207	0.02011	-0.05294	20
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03283	AEPW	'NORTHEASTERN STATION 138KV'	95	0.02011	-0.05294	20
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03283	AEPW	'OEC 345KV'	156	0.02013	-0.05296	20
SWPA	'MALDEN 69KV'	15	0.00246	SWPA	'DENISON 138KV'	50	0.05626	-0.0538	20
SWPA	'PARAGOULD 69KV'	18	0.00202	SWPA	'DENISON 138KV'	50	0.05626	-0.05424	20
SWPA	'PIGGOTT 69KV'	8	0.00234	SWPA	'DENISON 138KV'	50	0.05626	-0.05392	20
AEPW	'PIRKEY GENERATION 138KV'	65	-0.02777	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05353	20
AEPW	'PIRKEY GENERATION 138KV'	65	-0.02777	AEPW	'SOUTHWESTERN STATION 138KV'	32	0.02716	-0.05493	20
SWPA	'POPLAR BLUFF 69KV'	13	0.00336	SWPA	'DENISON 138KV'	50	0.05626	-0.0529	20

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

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

Upgrade: BROKEN BOW - CRAIG JUNCTION 138KV CKT 1  
 Limiting Facility: BROKEN BOW - CRAIG JUNCTION 138KV CKT 1  
 Direction: From->To  
 Line Outage: BBDAMTP4 - MOUNTAIN RIVER 138KV CKT 1  
 Flowgate: 52814540151558235600411107FA  
 Date Redispatch Needed: Starting 2007 10/1 - 12/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Fall Peak

Reservation	Relief Amount	Aggregate Relief Amount												
1079577		0.8												
1087908		0.3												
1089952		1.7												
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)					
SWPA	'BEAVER 161KV'	11	0.01451	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.55335	5					
SWPA	'BULL SHOALS 161KV'	195	0.00797	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.55989	5					
SWPA	'CARTHAGE 69KV'	32	0.0147	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.55316	5					
SWPA	'CLARENCE CANNON DAM 69KV'	3	0.00782	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.56004	5					
SWPA	'DARDANELLE 161KV'	56	0.00541	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.56245	5					
SWPA	'EUFAULA 138KV'	4	0.03374	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.53412	5					
SWPA	'EUFAULA 161KV'	2	0.0337	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.53416	5					
SWPA	'FORT GIBSON 161KV'	14	0.0219	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.54596	5					
SWPA	'GREERS FERRY 161KV'	6	0.00228	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.56558	5					
SWPA	'INDEPENDENCE 161KV'	13	0.00217	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.56569	5					
SWPA	'JONESBORO 161KV'	76	0.00185	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.56601	5					
SWPA	'KENNETT 69KV'	29	0.00229	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.56557	5					
SWPA	'KEYSTONE DAM 161KV'	35	0.0223	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.54556	5					
SWPA	'MALDEN 69KV'	15	0.00248	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.56538	5					
SWPA	'NORFORK 161KV'	65	0.00616	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.5617	5					
SWPA	'OZARK 161KV'	51	0.01206	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.5558	5					
SWPA	'PARAGOULD 69KV'	18	0.00204	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.56582	5					
SWPA	'PIGGOTT 69KV'	8	0.00236	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.5655	5					
SWPA	'POPLAR BLUFF 69KV'	13	0.00343	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.56443	5					
SWPA	'ROBERT S. KERR 161KV'	31	0.02014	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.54772	5					
SWPA	'STOCKTON 161KV'	3	0.01244	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.55542	5					
SWPA	'TABLE ROCK 161KV'	60	0.01183	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.55603	5					
SWPA	'TENKILLER FERRY 161KV'	26	0.02624	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.54162	5					
SWPA	'TRUMAN 161KV'	67	0.01063	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.55723	5					
SWPA	'WEBBERS FALLS 161KV'	38	0.02624	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.54162	5					
SWPA	'DENISON 138KV'	4	0.05622	SWPA	'BROKEN BOW 138KV'	104	0.56786	-0.51164	6					
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'COGENTRIX 345KV'	665	0.02125	-0.15452	18					
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'COMANCHE 138KV'	160	0.02448	-0.15775	18					
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'COMANCHE 69KV'	63	0.02576	-0.15903	18					
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'NORTHEASTERN STATION 138KV'	207	0.01995	-0.15322	18					
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'NORTHEASTERN STATION 138KV'	95	0.01995	-0.15322	18					
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'NORTHEASTERN STATION 345KV'	550	0.01951	-0.15278	18					
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'OEC 345KV'	156	0.02027	-0.15354	18					
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'RIVERSIDE STATION 138KV'	245	0.02274	-0.15601	18					
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'SOUTHWESTERN STATION 138KV'	33	0.02715	-0.16042	18					
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'WEATHERFORD 34KV'	148	0.02437	-0.15764	18					
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'FITZHUGH 161KV'	92	0.01208	-0.14535	19					
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'FLINT CREEK 161KV'	400	0.01729	-0.15056	19					
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'L&D13 69KV'	11	0.01509	-0.14836	19					
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'EASTMAN 138KV'	155	-0.02807	-0.1052	27					
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'KNOXLEE 138KV'	42	-0.02783	-0.10544	27					
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'LEBROCK 345KV'	365	-0.02761	-0.10566	27					
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'PIRKEY GENERATION 138KV'	213	-0.02778	-0.10549	27					
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'WELSH 345KV'	990	-0.02986	-0.10341	27					
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'WILKES 345KV'	59	-0.02872	-0.10455	27					
AEPW	'NARROWS 69KV'	30	-0.13327	AEPW	'WILKES 138KV'	18	-0.032	-0.10127	28					
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'COMANCHE 69KV'	63	0.02576	-0.08786	32					
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'SOUTHWESTERN STATION 138KV'	33	0.02715	-0.08925	32					
WFEC	'MORLND 138KV'	320	0.02294	WFEC	'HUGO 138KV'	450	0.11213	-0.08919	32					
WFEC	'ANADARKO 138KV'	39	0.02776	WFEC	'HUGO 138KV'	450	0.11213	-0.08437	33					
WFEC	'ANADARKO 138KV'	90	0.02776	WFEC	'HUGO 138KV'	450	0.11213	-0.08437	33					
WFEC	'ANADARKO 69KV'	76	0.02762	WFEC	'HUGO 138KV'	450	0.11213	-0.08451	33					
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'COMANCHE 138KV'	160	0.02448	-0.08658	33					
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'RIVERSIDE STATION 138KV'	245	0.02274	-0.08484	33					
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'WEATHERFORD 34KV'	148	0.02437	-0.08647	33					
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'COGENTRIX 345KV'	665	0.02125	-0.08335	34					
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'NORTHEASTERN STATION 138KV'	207	0.01995	-0.08205	34					
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'NORTHEASTERN STATION 138KV'	95	0.01995	-0.08205	34					
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'OEC 345KV'	156	0.02027	-0.08237	34					
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'FLINT CREEK 161KV'	400	0.01729	-0.07939	35					
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'NORTHEASTERN STATION 345KV'	550	0.01951	-0.08161	35					
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'FITZHUGH 161KV'	92	0.01208	-0.07418	38					
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03267	AEPW	'SOUTHWESTERN STATION 138KV'	33	0.02715	-0.05982	47					
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03267	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05843	48					
AEPW	'WILKES 138KV'	445	-0.032	AEPW	'SOUTHWESTERN STATION 138KV'	33	0.02715	-0.05915	48					
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03267	AEPW	'COMANCHE 138KV'	160	0.02448	-0.05715	49					
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03267	AEPW	'WEATHERFORD 34KV'	148	0.02437	-0.05704	49					
AEPW	'WELSH 345KV'	54	-0.02986	AEPW	'SOUTHWESTERN STATION 138KV'	33	0.02715	-0.05701	49					
AEPW	'WILKES 138KV'	445	-0.032	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05776	49					
AEPW	'WILKES 138KV'	445	-0.032	AEPW	'COMANCHE 138KV'	160	0.02448	-0.05648	50					
AEPW	'WILKES 138KV'	445	-0.032	AEPW	'WEATHERFORD 34KV'	148	0.02437	-0.05637	50					
AEPW	'WILKES 345KV'	252	-0.02872	AEPW	'SOUTHWESTERN STATION 138KV'	33	0.02715	-0.05587	50					
AEPW	'EASTMAN 138KV'	330	-0.02807	AEPW	'SOUTHWESTERN STATION 138KV'	33	0.02715	-0.05522	51					
AEPW	'KNOXLEE 138KV'	321	-0.02783	AEPW	'SOUTHWESTERN STATION 138KV'	33	0.02715	-0.05498	51					
AEPW	'KNOXLEE 138KV'	60	-0.02783	AEPW	'SOUTHWESTERN STATION 138KV'	33	0.02715	-0.05498	51					
AEPW	'LEBROCK 345KV'	332	-0.02761	AEPW	'SOUTHWESTERN STATION 138KV'	33	0.02715	-0.05476	51					
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03267	AEPW	'RIVERSIDE STATION 138KV'	245	0.02274	-0.05541	51					
AEPW	'PIRKEY GENERATION 138KV'	75	-0.02778	AEPW	'SOUTHWESTERN STATION 138KV'	33	0.02715	-0.05493	51					
AEPW	'WELSH 345KV'	54	-0.02986	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05562	51					
AEPW	'WILKES 138KV'	445	-0.032	AEPW	'RIVERSIDE STATION 138KV'	245	0.02274	-0.05474	51					

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

AEPW	'EASTMAN 138KV'	330	-0.02807	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05383	52
SWPA	'JONESBORO 161KV'	76	0.00185	SWPA	'DENISON 138KV'	66	0.05622	-0.05437	52
SWPA	'KENNETT 69KV'	29	0.00229	SWPA	'DENISON 138KV'	66	0.05622	-0.05393	52
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03267	AEPW	'COGENTRIX 345KV'	665	0.02125	-0.05392	52
SWPA	'PARAGOULD 69KV'	18	0.00204	SWPA	'DENISON 138KV'	66	0.05622	-0.05418	52
AEPW	'WELSH 345KV'	54	-0.02986	AEPW	'COMANCHE 138KV'	160	0.02448	-0.05434	52
AEPW	'WELSH 345KV'	54	-0.02986	AEPW	'WEATHERFORD 34KV'	148	0.02437	-0.05423	52
AEPW	'WILKES 345KV'	252	-0.02872	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05448	52
AEPW	'KNOXLEE 138KV'	321	-0.02783	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05359	53
AEPW	'KNOXLEE 138KV'	60	-0.02783	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05359	53
AEPW	'LEBROCK 345KV'	332	-0.02761	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05337	53
AEPW	'LIEBERMAN 138KV'	224	-0.02624	AEPW	'SOUTHWESTERN STATION 138KV'	33	0.02715	-0.05339	53
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03267	AEPW	'OEC 345KV'	156	0.02027	-0.05294	53
AEPW	'PIRKEY GENERATION 138KV'	75	-0.02778	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05354	53
AEPW	'TENASKA GATEWAY 345KV'	937	-0.02631	AEPW	'SOUTHWESTERN STATION 138KV'	33	0.02715	-0.05346	53
AEPW	'WILKES 138KV'	445	-0.032	AEPW	'COGENTRIX 345KV'	665	0.02125	-0.05325	53
AEPW	'WILKES 345KV'	252	-0.02872	AEPW	'COMANCHE 138KV'	160	0.02448	-0.0532	53
AEPW	'WILKES 345KV'	252	-0.02872	AEPW	'WEATHERFORD 34KV'	148	0.02437	-0.05309	53
AEPW	'ARSENAL HILL 69KV'	99	-0.02547	AEPW	'SOUTHWESTERN STATION 138KV'	33	0.02715	-0.05262	54
AEPW	'EASTMAN 138KV'	330	-0.02807	AEPW	'COMANCHE 138KV'	160	0.02448	-0.05255	54

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: BROKEN BOW - CRAIG JUNCTION 138KV CKT 1  
 Limiting Facility: BROKEN BOW - CRAIG JUNCTION 138KV CKT 1  
 Direction: From->To  
 Line Outage: BBDAMTP4 - MOUNTAIN RIVER 138KV CKT 1  
 Flowgate: 52814540151558235600411107G  
 Date Redispatch Needed: Starting 2007 4/1 - 6/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Spring Peak

Reservation	Relief Amount	Aggregate Relief Amount									
1079577	0.8	1									
1087908	0.3	1									
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)		
SWPA	'BEAVER 161KV'	34	0.01453	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.55338	2		
SWPA	'BULL SHOALS 161KV'	91	0.00795	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.55996	2		
SWPA	'CARTHAGE 69KV'	32	0.01474	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.55317	2		
SWPA	'CLARENCE CANNON DAM 69KV'	58	0.00784	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.56007	2		
SWPA	'DARDANELLE 161KV'	42	0.00537	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.56254	2		
SWPA	'DENISON 138KV'	18	0.05627	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.51164	2		
SWPA	'EUFAULA 138KV'	16	0.03387	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.53404	2		
SWPA	'EUFAULA 161KV'	8	0.03383	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.53408	2		
SWPA	'FORT GIBSON 161KV'	13	0.02196	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.54595	2		
SWPA	'GREERS FERRY 161KV'	29	0.00227	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.56564	2		
SWPA	'INDEPENDENCE 161KV'	13	0.00216	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.56575	2		
SWPA	'JONESBORO 161KV'	76	0.00182	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.56609	2		
SWPA	'KENNETT 69KV'	29	0.00227	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.56564	2		
SWPA	'KEYSTONE DAM 161KV'	18	0.0226	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.54531	2		
SWPA	'MALDEN 69KV'	14	0.00246	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.56545	2		
SWPA	'NORFORK 161KV'	22	0.00614	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.56177	2		
SWPA	'OZARK 161KV'	47	0.01204	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.55587	2		
SWPA	'PARAGOULD 69KV'	18	0.00201	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.5659	2		
SWPA	'PIGGOTT 69KV'	8	0.00234	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.56557	2		
SWPA	'POPLAR BLUFF 69KV'	13	0.00336	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.56455	2		
SWPA	'ROBERT S. KERR 161KV'	33	0.02016	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.54775	2		
SWPA	'STOCKTON 161KV'	14	0.01246	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.55545	2		
SWPA	'TABLE ROCK 161KV'	58	0.01185	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.55606	2		
SWPA	'TENKILLER FERRY 161KV'	11	0.02634	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.54157	2		
SWPA	'TRUMAN 161KV'	92	0.01068	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.55723	2		
SWPA	'WEBBERS FALLS 161KV'	35	0.02634	SWPA	'BROKEN BOW 138KV'	81	0.56791	-0.54157	2		
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'COGENTRIX 345KV'	665	0.02061	-0.15389	7		
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'COMANCHE 138KV'	160	0.02448	-0.15776	7		
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'COMANCHE 69KV'	63	0.02576	-0.15904	7		
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'FLINT CREEK 161KV'	400	0.01732	-0.1506	7		
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'LD13 69KV'	11	0.01508	-0.14836	7		
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'NORTHEASTERN STATION 138KV'	304	0.02011	-0.15339	7		
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'NORTHEASTERN STATION 138KV'	95	0.02011	-0.15339	7		
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'NORTHEASTERN STATION 345KV'	550	0.01951	-0.15279	7		
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'OEC 345KV'	156	0.02014	-0.15342	7		
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'RIVERSIDE STATION 138KV'	391	0.02379	-0.15707	7		
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02717	-0.16045	7		
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'TULSA POWER STATION 138KV'	38	0.02304	-0.15632	7		
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'WEATHERFORD 34KV'	148	0.02439	-0.15767	7		
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'FITZHUGH 161KV'	89	0.01206	-0.14534	8		
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'EASTMAN 138KV'	155	-0.02801	-0.10527	10		
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'KNOXLEE 138KV'	103	-0.02777	-0.10551	10		
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'LEBROCK 345KV'	365	-0.0276	-0.10568	10		
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'LIEBERMAN 138KV'	74	-0.02626	-0.10702	10		
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'PIRKEY GENERATION 138KV'	213	-0.02777	-0.10551	10		
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'WELSH 345KV'	1012	-0.02988	-0.1034	11		
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'WILKES 138KV'	133	-0.03209	-0.10119	11		
AEPW	'NARROWS 69KV'	30	-0.13328	AEPW	'WILKES 345KV'	186	-0.02876	-0.10452	11		
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02717	-0.08929	12		
WFEC	'MORLAND 138KV'	320	0.02296	WFEC	'HUGO 138KV'	450	0.11216	-0.0892	12		
WFEC	'ANADARKO 138KV'	42	0.02778	WFEC	'HUGO 138KV'	450	0.11216	-0.08438	13		
WFEC	'ANADARKO 138KV'	90	0.02778	WFEC	'HUGO 138KV'	450	0.11216	-0.08438	13		
WFEC	'ANADARKO 69KV'	76	0.02764	WFEC	'HUGO 138KV'	450	0.11216	-0.08452	13		
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'COGENTRIX 345KV'	665	0.02061	-0.08273	13		
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'COMANCHE 138KV'	160	0.02448	-0.0866	13		
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'COMANCHE 69KV'	63	0.02576	-0.08788	13		

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'NORTHEASTERN STATION 138KV'	304	0.02011	-0.08223	13
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'NORTHEASTERN STATION 138KV'	95	0.02011	-0.08223	13
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'OEC 345KV'	156	0.02014	-0.08226	13
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'RIVERSIDE STATION 138KV'	391	0.02379	-0.08591	13
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'TULSA POWER STATION 138KV'	38	0.02304	-0.08516	13
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'WEATHERFORD 34KV'	148	0.02439	-0.08651	13
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'FLINT CREEK 161KV'	400	0.01732	-0.07944	14
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'L&D13 69KV'	11	0.01508	-0.0772	14
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'NORTHEASTERN STATION 345KV'	550	0.01951	-0.08163	14
AEPW	'FULTON 115KV'	153	-0.06212	AEPW	'FITZHUGH 161KV'	89	0.01206	-0.07418	15
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03283	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02717	-0.06	18
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03283	AEPW	'COMANCHE 138KV'	160	0.02448	-0.05731	19
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03283	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05859	19
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03283	AEPW	'RIVERSIDE STATION 138KV'	391	0.02379	-0.05662	19
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03283	AEPW	'WEATHERFORD 34KV'	148	0.02439	-0.05722	19
AEPW	'WELSH 345KV'	32	-0.02988	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02717	-0.05705	19
AEPW	'WILKES 138KV'	330	-0.03209	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05785	19
AEPW	'WILKES 138KV'	330	-0.03209	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02717	-0.05926	19
AEPW	'EASTMAN 138KV'	330	-0.02801	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02717	-0.05518	20
SWPA	'GREERS FERRY 161KV'	29	0.00227	SWPA	'DENISON 138KV'	52	0.05627	-0.054	20
SWPA	'INDEPENDENCE 161KV'	13	0.00216	SWPA	'DENISON 138KV'	52	0.05627	-0.05411	20
SWPA	'JONESBORO 161KV'	76	0.00182	SWPA	'DENISON 138KV'	52	0.05627	-0.05445	20
SWPA	'KENNETT 69KV'	29	0.00227	SWPA	'DENISON 138KV'	52	0.05627	-0.054	20
AEPW	'KNOXLEE 138KV'	260	-0.02777	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02717	-0.05494	20
AEPW	'KNOXLEE 138KV'	60	-0.02777	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02717	-0.05494	20
AEPW	'LEBROCK 345KV'	332	-0.0276	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02717	-0.05477	20
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03283	AEPW	'TULSA POWER STATION 138KV'	38	0.02304	-0.05587	20
SWPA	'PARAGOULD 69KV'	18	0.00201	SWPA	'DENISON 138KV'	52	0.05627	-0.05426	20
SWPA	'PIGGOTT 69KV'	8	0.00234	SWPA	'DENISON 138KV'	52	0.05627	-0.05393	20
AEPW	'PIRKEY GENERATION 138KV'	75	-0.02777	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02717	-0.05494	20
AEPW	'WELSH 345KV'	32	-0.02988	AEPW	'COMANCHE 138KV'	160	0.02448	-0.05436	20
AEPW	'WELSH 345KV'	32	-0.02988	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05564	20
AEPW	'WELSH 345KV'	32	-0.02988	AEPW	'WEATHERFORD 34KV'	148	0.02439	-0.05427	20
AEPW	'WILKES 138KV'	330	-0.03209	AEPW	'COMANCHE 138KV'	160	0.02448	-0.05657	20
AEPW	'WILKES 138KV'	330	-0.03209	AEPW	'RIVERSIDE STATION 138KV'	391	0.02379	-0.05588	20
AEPW	'WILKES 138KV'	330	-0.03209	AEPW	'TULSA POWER STATION 138KV'	38	0.02304	-0.05513	20
AEPW	'WILKES 138KV'	330	-0.03209	AEPW	'WEATHERFORD 34KV'	148	0.02439	-0.05648	20
AEPW	'WILKES 345KV'	125	-0.02876	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05452	20
AEPW	'WILKES 345KV'	125	-0.02876	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02717	-0.05593	20
AEPW	'ARSENAL HILL 69KV'	99	-0.02549	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02717	-0.05266	21
AEPW	'EASTMAN 138KV'	330	-0.02801	AEPW	'COMANCHE 138KV'	160	0.02448	-0.05249	21
AEPW	'EASTMAN 138KV'	330	-0.02801	AEPW	'COMANCHE 69KV'	63	0.02576	-0.05377	21
AEPW	'EASTMAN 138KV'	330	-0.02801	AEPW	'RIVERSIDE STATION 138KV'	391	0.02379	-0.0518	21
AEPW	'EASTMAN 138KV'	330	-0.02801	AEPW	'WEATHERFORD 34KV'	148	0.02439	-0.0524	21

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: BROKEN BOW - CRAIG JUNCTION 138KV CKT 1  
 Limiting Facility: BROKEN BOW - CRAIG JUNCTION 138KV CKT 1  
 Direction: From->To  
 Line Outage: BBDAMTP4 - MOUNTAIN RIVER 138KV CKT 1  
 Flowgate: 52814540151558235600411107WP  
 Date Redispatch Needed: 12/1/07 - 4/1/08  
 Season Flowgate Identified: 2007 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount
1079577	0.8	4
1087908	0.3	4
1089945	1.7	4
1089952	1.3	4

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
SWPA	'BULL SHOALS 161KV'	96	0.00807	SWPA	'BROKEN BOW 138KV'	79	0.56797	-0.5599	7
SWPA	'CLARENCE CANNON DAM 69KV'	58	0.00785	SWPA	'BROKEN BOW 138KV'	79	0.56797	-0.56012	7
SWPA	'DARDANELLE 161KV'	45	0.00557	SWPA	'BROKEN BOW 138KV'	79	0.56797	-0.5624	7
SWPA	'GREERS FERRY 161KV'	31	0.00243	SWPA	'BROKEN BOW 138KV'	79	0.56797	-0.56554	7
SWPA	'INDEPENDENCE 161KV'	13	0.00231	SWPA	'BROKEN BOW 138KV'	79	0.56797	-0.56566	7
SWPA	'JONESBORO 161KV'	3	0.00195	SWPA	'BROKEN BOW 138KV'	79	0.56797	-0.56602	7
SWPA	'KENNETT 69KV'	29	0.00238	SWPA	'BROKEN BOW 138KV'	79	0.56797	-0.56559	7
SWPA	'MALDEN 69KV'	15	0.00255	SWPA	'BROKEN BOW 138KV'	79	0.56797	-0.56542	7
SWPA	'NORFORK 161KV'	24	0.00625	SWPA	'BROKEN BOW 138KV'	79	0.56797	-0.56172	7
SWPA	'PARAGOULD 69KV'	18	0.00213	SWPA	'BROKEN BOW 138KV'	79	0.56797	-0.56584	7
SWPA	'PIGGOTT 69KV'	8	0.00244	SWPA	'BROKEN BOW 138KV'	79	0.56797	-0.56553	7
SWPA	'POPLAR BLUFF 69KV'	13	0.0035	SWPA	'BROKEN BOW 138KV'	79	0.56797	-0.56447	7
SWPA	'TRUMAN 161KV'	93	0.01066	SWPA	'BROKEN BOW 138KV'	79	0.56797	-0.55731	7
SWPA	'BEAVER 161KV'	40	0.0146	SWPA	'BROKEN BOW 138KV'	79	0.56797	-0.55337	8
SWPA	'CARTHAGE 69KV'	20	0.01477	SWPA	'BROKEN BOW 138KV'	79	0.56797	-0.5532	8
SWPA	'DENISON 138KV'	20	0.05631	SWPA	'BROKEN BOW 138KV'	79	0.56797	-0.51166	8
SWPA	'EUFULA 138KV'	17	0.03385	SWPA	'BROKEN BOW 138KV'	79	0.56797	-0.53412	8
SWPA	'EUFULA 161KV'	8	0.03381	SWPA	'BROKEN BOW 138KV'	79	0.56797	-0.53416	8
SWPA	'FORT GIBSON 161KV'	14	0.022	SWPA	'BROKEN BOW 138KV'	79	0.56797	-0.54597	8
SWPA	'KEYSTONE DAM 161KV'	20	0.02239	SWPA	'BROKEN BOW 138KV'	79	0.56797	-0.54558	8
SWPA	'OZARK 161KV'	49	0.01221	SWPA	'BROKEN BOW 138KV'	79	0.56797	-0.55576	8
SWPA	'ROBERT S. KERR 161KV'	35	0.02027	SWPA	'BROKEN BOW 138KV'	79	0.56797	-0.5477	8
SWPA	'STOCKTON 161KV'	14	0.01249	SWPA	'BROKEN BOW 138KV'	79	0.56797	-0.55548	8
SWPA	'TABLE ROCK 161KV'	61	0.01191	SWPA	'BROKEN BOW 138KV'	79	0.56797	-0.55606	8
SWPA	'TENKILLER FERRY 161KV'	12	0.02636	SWPA	'BROKEN BOW 138KV'	79	0.56797	-0.54161	8
SWPA	'WEBBERS FALLS 161KV'	36	0.02636	SWPA	'BROKEN BOW 138KV'	79	0.56797	-0.54161	8
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'COMANCHE 138KV'	160	0.02456	-0.15771	26
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'COMANCHE 69KV'	63	0.02584	-0.15899	26
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'SOUTHWESTERN STATION 138KV'	29	0.02723	-0.16038	26
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'COGENTRIX 345KV'	665	0.02134	-0.15449	27

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'NORTHEASTERN STATION 138KV'	207	0.02003	-0.15318	27
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'NORTHEASTERN STATION 138KV'	95	0.02003	-0.15318	27
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'NORTHEASTERN STATION 345KV'	600	0.01959	-0.15274	27
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'OEC 345KV'	156	0.02036	-0.15351	27
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'RIVERSIDE STATION 138KV'	238	0.02283	-0.15598	27
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'WEATHERFORD 34KV'	148	0.02445	-0.1576	27
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'FLINT CREEK 161KV'	400	0.01738	-0.15053	28
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'L&D13 69KV'	11	0.01523	-0.14838	28
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'FITZHUGH 161KV'	31	0.01223	-0.14538	29
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'LIEBERMAN 138KV'	48	-0.02612	-0.10703	39
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'EASTMAN 138KV'	155	-0.02795	-0.1052	40
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'KNOXLEE 138KV'	103	-0.02772	-0.10543	40
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'LEBROCK 345KV'	365	-0.0275	-0.10565	40
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'PIRKEY GENERATION 138KV'	223	-0.02767	-0.10548	40
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'WELSH 345KV'	975	-0.02975	-0.1034	40
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'WILKES 345KV'	191	-0.02861	-0.10454	40
AEPW	'NARROWS 69KV'	30	-0.13315	AEPW	'WILKES 138KV'	119	-0.03189	-0.10126	41
AEPW	'FULTON 115KV'	153	-0.06196	AEPW	'SOUTHWESTERN STATION 138KV'	29	0.02723	-0.08919	47
WFEC	'MORLND 138KV'	133	0.02302	WFEC	'HUGO 138KV'	450	0.11223	-0.08921	47
AEPW	'FULTON 115KV'	153	-0.06196	AEPW	'COMANCHE 138KV'	160	0.02456	-0.08652	48
AEPW	'FULTON 115KV'	153	-0.06196	AEPW	'COMANCHE 69KV'	63	0.02584	-0.0878	48
AEPW	'FULTON 115KV'	153	-0.06196	AEPW	'WEATHERFORD 34KV'	148	0.02445	-0.08641	48
WFEC	'ANADARKO 69KV'	76	0.0277	WFEC	'HUGO 138KV'	450	0.11223	-0.08453	49
AEPW	'FULTON 115KV'	153	-0.06196	AEPW	'RIVERSIDE STATION 138KV'	238	0.02283	-0.08479	49
WFEC	'ANADARKO 138KV'	90	0.02784	WFEC	'HUGO 138KV'	450	0.11223	-0.08439	50
AEPW	'FULTON 115KV'	153	-0.06196	AEPW	'COGENTRIX 345KV'	665	0.02134	-0.0833	50
AEPW	'FULTON 115KV'	153	-0.06196	AEPW	'NORTHEASTERN STATION 138KV'	207	0.02003	-0.08199	51
AEPW	'FULTON 115KV'	153	-0.06196	AEPW	'NORTHEASTERN STATION 138KV'	95	0.02003	-0.08199	51
AEPW	'FULTON 115KV'	153	-0.06196	AEPW	'NORTHEASTERN STATION 345KV'	600	0.01959	-0.08155	51
AEPW	'FULTON 115KV'	153	-0.06196	AEPW	'OEC 345KV'	156	0.02036	-0.08232	51
AEPW	'FULTON 115KV'	153	-0.06196	AEPW	'FLINT CREEK 161KV'	400	0.01738	-0.07934	53
AEPW	'FULTON 115KV'	153	-0.06196	AEPW	'FITZHUGH 161KV'	31	0.01223	-0.07419	56
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03256	AEPW	'SOUTHWESTERN STATION 138KV'	29	0.02723	-0.05979	70
AEPW	'WILKES 138KV'	344	-0.03189	AEPW	'SOUTHWESTERN STATION 138KV'	29	0.02723	-0.05912	71
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03256	AEPW	'COMANCHE 69KV'	63	0.02584	-0.0584	72
AEPW	'WILKES 138KV'	344	-0.03189	AEPW	'COMANCHE 69KV'	63	0.02584	-0.05773	72
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03256	AEPW	'COMANCHE 138KV'	160	0.02456	-0.05712	73
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03256	AEPW	'WEATHERFORD 34KV'	148	0.02445	-0.05701	73
AEPW	'WELSH 345KV'	69	-0.02975	AEPW	'SOUTHWESTERN STATION 138KV'	29	0.02723	-0.05698	73
AEPW	'WILKES 138KV'	344	-0.03189	AEPW	'COMANCHE 138KV'	160	0.02456	-0.05645	74
AEPW	'WILKES 138KV'	344	-0.03189	AEPW	'WEATHERFORD 34KV'	148	0.02445	-0.05634	74
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03256	AEPW	'RIVERSIDE STATION 138KV'	238	0.02283	-0.05539	75
AEPW	'WELSH 345KV'	69	-0.02975	AEPW	'COMANCHE 69KV'	63	0.02584	-0.05559	75
AEPW	'WILKES 345KV'	120	-0.02861	AEPW	'SOUTHWESTERN STATION 138KV'	29	0.02723	-0.05584	75
AEPW	'EASTMAN 138KV'	330	-0.02795	AEPW	'SOUTHWESTERN STATION 138KV'	29	0.02723	-0.05518	76
AEPW	'KNOXLEE 138KV'	260	-0.02772	AEPW	'SOUTHWESTERN STATION 138KV'	29	0.02723	-0.05495	76
AEPW	'KNOXLEE 138KV'	60	-0.02772	AEPW	'SOUTHWESTERN STATION 138KV'	29	0.02723	-0.05495	76
AEPW	'LEBROCK 345KV'	332	-0.0275	AEPW	'SOUTHWESTERN STATION 138KV'	29	0.02723	-0.05473	76
AEPW	'PIRKEY GENERATION 138KV'	65	-0.02767	AEPW	'SOUTHWESTERN STATION 138KV'	29	0.02723	-0.0549	76
AEPW	'WILKES 138KV'	344	-0.03189	AEPW	'RIVERSIDE STATION 138KV'	238	0.02283	-0.05472	76
SWPA	'KENNETT 69KV'	29	0.00238	SWPA	'DENISON 138KV'	50	0.05631	-0.05393	77
AEPW	'WELSH 345KV'	69	-0.02975	AEPW	'COMANCHE 138KV'	160	0.02456	-0.05431	77
AEPW	'WELSH 345KV'	69	-0.02975	AEPW	'WEATHERFORD 34KV'	148	0.02445	-0.0542	77
AEPW	'WILKES 345KV'	120	-0.02861	AEPW	'COMANCHE 69KV'	63	0.02584	-0.05445	77
AEPW	'EASTMAN 138KV'	330	-0.02795	AEPW	'COMANCHE 69KV'	63	0.02584	-0.05379	78
SWPA	'GREERS FERRY 161KV'	31	0.00243	SWPA	'DENISON 138KV'	50	0.05631	-0.05388	78
AEPW	'KNOXLEE 138KV'	260	-0.02772	AEPW	'COMANCHE 69KV'	63	0.02584	-0.05356	78
AEPW	'KNOXLEE 138KV'	60	-0.02772	AEPW	'COMANCHE 69KV'	63	0.02584	-0.05356	78
AEPW	'LEBROCK 345KV'	332	-0.0275	AEPW	'COMANCHE 69KV'	63	0.02584	-0.05334	78
AEPW	'LIEBERMAN 138KV'	180	-0.02612	AEPW	'SOUTHWESTERN STATION 138KV'	29	0.02723	-0.05335	78
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03256	AEPW	'COGENTRIX 345KV'	665	0.02134	-0.0539	78
AEPW	'PIRKEY GENERATION 138KV'	65	-0.02767	AEPW	'COMANCHE 69KV'	63	0.02584	-0.05351	78
AEPW	'TENASKA GATEWAY 345KV'	937	-0.0262	AEPW	'SOUTHWESTERN STATION 138KV'	29	0.02723	-0.05343	78
AEPW	'WILKES 138KV'	344	-0.03189	AEPW	'COGENTRIX 345KV'	665	0.02134	-0.05323	78
AEPW	'ARSENAL HILL 69KV'	99	-0.02535	AEPW	'SOUTHWESTERN STATION 138KV'	29	0.02723	-0.05258	79
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03256	AEPW	'NORTHEASTERN STATION 138KV'	207	0.02003	-0.05259	79
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03256	AEPW	'NORTHEASTERN STATION 138KV'	95	0.02003	-0.05259	79
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03256	AEPW	'OEC 345KV'	156	0.02036	-0.05292	79
AEPW	'WELSH 345KV'	69	-0.02975	AEPW	'RIVERSIDE STATION 138KV'	238	0.02283	-0.05258	79
AEPW	'WILKES 345KV'	120	-0.02861	AEPW	'COMANCHE 138KV'	160	0.02456	-0.05317	79

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: BROKEN BOW - CRAIG JUNCTION 138KV CKT 1  
 Limiting Facility: BROKEN BOW - CRAIG JUNCTION 138KV CKT 1  
 Direction: From->To  
 Line Outage: BBDAMTP4 - MOUNTAIN RIVER 138KV CKT 1  
 Flowgate: 52814540151558235600414107SH  
 Date Redispatch Needed: 6/1 - 10/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Summer Shoulder

Reservation	Relief Amount	Aggregate Relief Amount
1079577	0.3	1
1087908	0.1	1
1089952	0.5	1

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
SWPA	'BEAVER 161KV'	29	0.0145	SWPA	'BROKEN BOW 138KV'	89	0.56785	-0.55335	1
SWPA	'BULL SHOALS 161KV'	66	0.00796	SWPA	'BROKEN BOW 138KV'	89	0.56785	-0.55989	1
SWPA	'CARTHAGE 69KV'	32	0.01468	SWPA	'BROKEN BOW 138KV'	89	0.56785	-0.55317	1
SWPA	'CLARENCE CANNON DAM 69KV'	11	0.00781	SWPA	'BROKEN BOW 138KV'	89	0.56785	-0.56004	1
SWPA	'DARDANELLE 161KV'	56	0.0054	SWPA	'BROKEN BOW 138KV'	89	0.56785	-0.56245	1

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

SWPA	'FORT GIBSON 161KV'	10	0.02188	SWPA	'BROKEN BOW 138KV'	89	0.56785	-0.54597	1
SWPA	'GREERS FERRY 161KV'	21	0.00227	SWPA	'BROKEN BOW 138KV'	89	0.56785	-0.56558	1
SWPA	'INDEPENDENCE 161KV'	13	0.00217	SWPA	'BROKEN BOW 138KV'	89	0.56785	-0.56568	1
SWPA	'KENNETT 69KV'	28	0.00229	SWPA	'BROKEN BOW 138KV'	89	0.56785	-0.56556	1
SWPA	'MALDEN 69KV'	13	0.00248	SWPA	'BROKEN BOW 138KV'	89	0.56785	-0.56537	1
SWPA	'NORFORK 161KV'	65	0.00615	SWPA	'BROKEN BOW 138KV'	89	0.56785	-0.56177	1
SWPA	'OZARK 161KV'	41	0.01205	SWPA	'BROKEN BOW 138KV'	89	0.56785	-0.5558	1
SWPA	'PARAGOULD 69KV'	18	0.00203	SWPA	'BROKEN BOW 138KV'	89	0.56785	-0.56582	1
SWPA	'PIGGOTT 69KV'	8	0.00236	SWPA	'BROKEN BOW 138KV'	89	0.56785	-0.56549	1
SWPA	'POPLAR BLUFF 69KV'	13	0.00343	SWPA	'BROKEN BOW 138KV'	89	0.56785	-0.56442	1
SWPA	'ROBERT S. KERR 161KV'	24	0.02012	SWPA	'BROKEN BOW 138KV'	89	0.56785	-0.54773	1
SWPA	'STOCKTON 161KV'	10	0.01241	SWPA	'BROKEN BOW 138KV'	89	0.56785	-0.55544	1
SWPA	'TABLE ROCK 161KV'	42	0.01182	SWPA	'BROKEN BOW 138KV'	89	0.56785	-0.55603	1
SWPA	'TRUMAN 161KV'	83	0.0106	SWPA	'BROKEN BOW 138KV'	89	0.56785	-0.55725	1
SWPA	'DENISON 138KV'	13	0.0562	SWPA	'BROKEN BOW 138KV'	89	0.56785	-0.51165	2
SWPA	'EUFAULA 138KV'	12	0.03372	SWPA	'BROKEN BOW 138KV'	89	0.56785	-0.53413	2
SWPA	'EUFAULA 161KV'	6	0.03368	SWPA	'BROKEN BOW 138KV'	89	0.56785	-0.53417	2
SWPA	'KEYSTONE DAM 161KV'	13	0.02228	SWPA	'BROKEN BOW 138KV'	89	0.56785	-0.54557	2
SWPA	'TENKILLER FERRY 161KV'	26	0.02623	SWPA	'BROKEN BOW 138KV'	89	0.56785	-0.54162	2
SWPA	'WEBBERS FALLS 161KV'	32	0.02623	SWPA	'BROKEN BOW 138KV'	89	0.56785	-0.54162	2
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'COGENTRIX 345KV'	665	0.02123	-0.15451	5
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'COMANCHE 138KV'	160	0.02446	-0.15774	5
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'COMANCHE 69KV'	63	0.02574	-0.15902	5
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'FLINT CREEK 161KV'	400	0.01728	-0.15056	5
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'NORTHEASTERN STATION 138KV'	405	0.01993	-0.15321	5
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'NORTHEASTERN STATION 138KV'	95	0.01993	-0.15321	5
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'NORTHEASTERN STATION 345KV'	608	0.01949	-0.15277	5
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'OEC 345KV'	156	0.02025	-0.15353	5
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'RIVERSIDE STATION 138KV'	422	0.02272	-0.156	5
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02713	-0.16041	5
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'TULSA POWER STATION 138KV'	2	0.02211	-0.15539	5
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'TULSA POWER STATION 138KV'	38	0.02211	-0.15539	5
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'WEATHERFORD 34KV'	148	0.02435	-0.15763	5
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'FITZHUGH 161KV'	103	0.01207	-0.14535	6
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'L&D13 69KV'	11	0.01508	-0.14836	6
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'EASTMAN 138KV'	155	-0.02808	-0.1052	8
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'KNOXLEE 138KV'	50	-0.02784	-0.10544	8
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'LEBROCK 345KV'	365	-0.02762	-0.10566	8
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'LIEBERMAN 138KV'	4	-0.02624	-0.10704	8
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'PIRKEY GENERATION 138KV'	213	-0.02779	-0.10549	8
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'WELSH 345KV'	960	-0.02987	-0.10341	8
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'WILKES 138KV'	90	-0.03201	-0.10127	8
AEPW	'NARROWS 69KV'	3	-0.13328	AEPW	'WILKES 345KV'	129	-0.02873	-0.10455	8
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'COMANCHE 138KV'	160	0.02446	-0.08656	9
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'COMANCHE 69KV'	63	0.02574	-0.08784	9
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02713	-0.08923	9
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'WEATHERFORD 34KV'	148	0.02435	-0.08645	9
WFEC	'MORLND 138KV'	160	0.02292	WFEC	'HUGO 138KV'	450	0.11211	-0.08919	9
WFEC	'ANADARKO 138KV'	9	0.02774	WFEC	'HUGO 138KV'	450	0.11211	-0.08437	10
WFEC	'ANADARKO 138KV'	90	0.02774	WFEC	'HUGO 138KV'	450	0.11211	-0.08437	10
WFEC	'ANADARKO 69KV'	76	0.0276	WFEC	'HUGO 138KV'	450	0.11211	-0.08451	10
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'COGENTRIX 345KV'	665	0.02123	-0.08333	10
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'FLINT CREEK 161KV'	400	0.01728	-0.07938	10
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'NORTHEASTERN STATION 138KV'	405	0.01993	-0.08203	10
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'NORTHEASTERN STATION 138KV'	95	0.01993	-0.08203	10
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'NORTHEASTERN STATION 345KV'	608	0.01949	-0.08159	10
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'OEC 345KV'	156	0.02025	-0.08235	10
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'RIVERSIDE STATION 138KV'	422	0.02272	-0.08482	10
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'TULSA POWER STATION 138KV'	38	0.02211	-0.08421	10
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'FITZHUGH 161KV'	103	0.01207	-0.07417	11
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'L&D13 69KV'	11	0.01508	-0.07718	11
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03268	AEPW	'COMANCHE 138KV'	160	0.02446	-0.05714	14
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03268	AEPW	'COMANCHE 69KV'	63	0.02574	-0.05842	14
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03268	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02713	-0.05981	14
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03268	AEPW	'WEATHERFORD 34KV'	148	0.02435	-0.05703	14
AEPW	'WELSH 345KV'	84	-0.02987	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02713	-0.057	14
AEPW	'WILKES 138KV'	373	-0.03201	AEPW	'COMANCHE 138KV'	160	0.02446	-0.05647	14
AEPW	'WILKES 138KV'	373	-0.03201	AEPW	'COMANCHE 69KV'	63	0.02574	-0.05775	14
AEPW	'WILKES 138KV'	373	-0.03201	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02713	-0.05914	14
AEPW	'EASTMAN 138KV'	330	-0.02808	AEPW	'COMANCHE 69KV'	63	0.02574	-0.05382	15
AEPW	'EASTMAN 138KV'	330	-0.02808	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02713	-0.05521	15
SWPA	'GREERS FERRY 161KV'	21	0.00227	SWPA	'DENISON 138KV'	57	0.0562	-0.05393	15
SWPA	'INDEPENDENCE 161KV'	13	0.00217	SWPA	'DENISON 138KV'	57	0.0562	-0.05403	15
SWPA	'KENNETT 69KV'	28	0.00229	SWPA	'DENISON 138KV'	57	0.0562	-0.05391	15
AEPW	'KNOXLEE 138KV'	313	-0.02784	AEPW	'COMANCHE 69KV'	63	0.02574	-0.05358	15
AEPW	'KNOXLEE 138KV'	60	-0.02784	AEPW	'COMANCHE 69KV'	63	0.02574	-0.05358	15
AEPW	'KNOXLEE 138KV'	313	-0.02784	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02713	-0.05497	15
AEPW	'KNOXLEE 138KV'	60	-0.02784	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02713	-0.05497	15
AEPW	'LEBROCK 345KV'	332	-0.02762	AEPW	'COMANCHE 69KV'	63	0.02574	-0.05336	15
AEPW	'LEBROCK 345KV'	332	-0.02762	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02713	-0.05475	15
AEPW	'LIEBERMAN 138KV'	224	-0.02624	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02713	-0.05337	15
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03268	AEPW	'COGENTRIX 345KV'	665	0.02123	-0.05391	15
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03268	AEPW	'OEC 345KV'	156	0.02025	-0.05293	15
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03268	AEPW	'RIVERSIDE STATION 138KV'	422	0.02272	-0.0554	15
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03268	AEPW	'TULSA POWER STATION 138KV'	38	0.02211	-0.05479	15
SWPA	'MALDEN 69KV'	13	0.00248	SWPA	'DENISON 138KV'	57	0.0562	-0.05372	15
AEPW	'NORTH MARSHALL 69KV'	5	-0.02812	AEPW	'COMANCHE 69KV'	63	0.02574	-0.05386	15
AEPW	'NORTH MARSHALL 69KV'	5	-0.02812	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02713	-0.05525	15
SWPA	'PARAGOULD 69KV'	18	0.00203	SWPA	'DENISON 138KV'	57	0.0562	-0.05417	15
SWPA	'PIGGOTT 69KV'	8	0.00236	SWPA	'DENISON 138KV'	57	0.0562	-0.05384	15
AEPW	'PIRKEY GENERATION 138KV'	75	-0.02779	AEPW	'COMANCHE 69KV'	63	0.02574	-0.05353	15
AEPW	'PIRKEY GENERATION 138KV'	75	-0.02779	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02713	-0.05492	15
AEPW	'TENASKA GATEWAY 345KV'	937	-0.02632	AEPW	'SOUTHWESTERN STATION 138KV'	143	0.02713	-0.05345	15
AEPW	'WELSH 345KV'	84	-0.02987	AEPW	'COMANCHE 138KV'	160	0.02446	-0.05433	15
AEPW	'WELSH 345KV'	84	-0.02987	AEPW	'COMANCHE 69KV'	63	0.02574	-0.05561	15

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

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Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

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

Upgrade: BROKEN BOW - CRAIG JUNCTION 138KV CKT 1  
 Limiting Facility: BROKEN BOW - CRAIG JUNCTION 138KV CKT 1  
 Direction: From->To  
 Line Outage: BBDAMTP4 - MOUNTAIN RIVER 138KV CKT 1  
 Flowgate: 52814540151558235600414107SP  
 Date Redispatch Needed: 6/1/07 - 10/1/07  
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount										
1079577		0.6	2									
1087908		0.2	2									
1089952		1.0	2									
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)			
SWPA	'BEAVER 161KV'	23	0.0145	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.55335	3			
SWPA	'BULL SHOALS 161KV'	52	0.00796	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.55989	3			
SWPA	'CARTHAGE 69KV'	2	0.01468	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.55317	3			
SWPA	'CLARENCE CANNON DAM 69KV'	9	0.00781	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.56004	3			
SWPA	'DARDANELLE 161KV'	56	0.0054	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.56245	3			
SWPA	'EUFAULA 138KV'	9	0.03372	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.53413	3			
SWPA	'EUFAULA 161KV'	5	0.03368	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.53417	3			
SWPA	'FORT GIBSON 161KV'	8	0.02188	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.54597	3			
SWPA	'GREERS FERRY 161KV'	17	0.00227	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.56558	3			
SWPA	'INDEPENDENCE 161KV'	13	0.00217	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.56568	3			
SWPA	'KENNETT 69KV'	22	0.00229	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.56556	3			
SWPA	'KEYSTONE DAM 161KV'	11	0.02228	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.54557	3			
SWPA	'MALDEN 69KV'	10	0.00248	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.56537	3			
SWPA	'NORFORK 161KV'	65	0.00615	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.5617	3			
SWPA	'OZARK 161KV'	37	0.01205	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.5558	3			
SWPA	'PARAGOULD 69KV'	12	0.00203	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.56582	3			
SWPA	'PIGGOTT 69KV'	8	0.00236	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.56549	3			
SWPA	'POPLAR BLUFF 69KV'	7	0.00343	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.56442	3			
SWPA	'ROBERT S. KERR 161KV'	19	0.02012	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.54773	3			
SWPA	'STOCKTON 161KV'	8	0.01241	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.55544	3			
SWPA	'TABLE ROCK 161KV'	33	0.01182	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.55603	3			
SWPA	'TENKILLER FERRY 161KV'	26	0.02623	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.54162	3			
SWPA	'TRUMAN 161KV'	78	0.0106	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.55725	3			
SWPA	'WEBBERS FALLS 161KV'	30	0.02623	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.54162	3			
SWPA	'DENISON 138KV'	11	0.0562	SWPA	'BROKEN BOW 138KV'	93	0.56785	-0.51165	4			
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'WLEETKA 138KV'	70	0.05321	-0.11531	16			
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'COMANCHE 138KV'	160	0.02446	-0.08656	21			
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'COMANCHE 69KV'	63	0.02574	-0.08784	21			
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'SOUTHWESTERN STATION 138KV'	268	0.02713	-0.08923	21			
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'WEATHERFORD 34KV'	148	0.02435	-0.08645	21			
WFEC	'MORLND 138KV'	25	0.02292	WFEC	'HUGO 138KV'	450	0.11211	-0.08919	21			
WFEC	'ANADARKO 138KV'	90	0.02774	WFEC	'HUGO 138KV'	450	0.11211	-0.08437	21			
WFEC	'ANADARKO 69KV'	76	0.0276	WFEC	'HUGO 138KV'	450	0.11211	-0.08451	22			
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'COGENTRIX 345KV'	665	0.02123	-0.08333	22			
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'RIVERSIDE STATION 138KV'	646	0.02272	-0.08482	22			
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'TULSA POWER STATION 138KV'	111	0.02211	-0.08421	22			
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'TULSA POWER STATION 138KV'	75	0.02211	-0.08421	22			
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03268	AEPW	'WLEETKA 138KV'	70	0.05321	-0.08589	22			
AEPW	'WELSH 345KV'	54	-0.02987	AEPW	'WLEETKA 138KV'	70	0.05321	-0.08308	22			
AEPW	'WILKES 138KV'	149	-0.03201	AEPW	'WLEETKA 138KV'	70	0.05321	-0.08522	22			
AEPW	'EASTMAN 138KV'	330	-0.02808	AEPW	'WLEETKA 138KV'	70	0.05321	-0.08129	23			
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'FLINT CREEK 161KV'	420	0.01728	-0.07938	23			
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'NORTHEASTERN STATION 138KV'	405	0.01993	-0.08203	23			
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'NORTHEASTERN STATION 138KV'	95	0.01993	-0.08203	23			
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'NORTHEASTERN STATION 345KV'	645	0.01949	-0.08159	23			
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'OEC 345KV'	156	0.02025	-0.08235	23			
AEPW	'KNOXLEE 138KV'	162	-0.02784	AEPW	'WLEETKA 138KV'	70	0.05321	-0.08105	23			
AEPW	'KNOXLEE 138KV'	60	-0.02784	AEPW	'WLEETKA 138KV'	70	0.05321	-0.08105	23			
AEPW	'LEBROCK 345KV'	332	-0.02762	AEPW	'WLEETKA 138KV'	70	0.05321	-0.08083	23			
AEPW	'LIEBERMAN 138KV'	154	-0.02624	AEPW	'WLEETKA 138KV'	70	0.05321	-0.07945	23			
AEPW	'PIRKEY GENERATION 138KV'	40	-0.02779	AEPW	'WLEETKA 138KV'	70	0.05321	-0.081	23			
AEPW	'TENASKA GATEWAY 345KV'	937	-0.02632	AEPW	'WLEETKA 138KV'	70	0.05321	-0.07953	23			
AEPW	'ARSENAL HILL 69KV'	99	-0.02548	AEPW	'WLEETKA 138KV'	70	0.05321	-0.07869	24			
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'L&D13 69KV'	11	0.01508	-0.07718	24			
AEPW	'FULTON 115KV'	153	-0.0621	AEPW	'FITZHUGH 161KV'	126	0.01207	-0.07417	25			
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03268	AEPW	'SOUTHWESTERN STATION 138KV'	268	0.02713	-0.05981	31			
AEPW	'WILKES 138KV'	149	-0.03201	AEPW	'SOUTHWESTERN STATION 138KV'	268	0.02713	-0.05914	31			
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03268	AEPW	'COMANCHE 138KV'	160	0.02446	-0.05714	32			
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03268	AEPW	'COMANCHE 69KV'	63	0.02574	-0.05842	32			
AEPW	'WILKES 138KV'	149	-0.03201	AEPW	'COMANCHE 69KV'	63	0.02574	-0.05775	32			
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03268	AEPW	'WEATHERFORD 34KV'	148	0.02435	-0.05703	33			
AEPW	'WELSH 345KV'	54	-0.02987	AEPW	'COMANCHE 69KV'	63	0.02574	-0.05561	33			
AEPW	'WELSH 345KV'	54	-0.02987	AEPW	'SOUTHWESTERN STATION 138KV'	268	0.02713	-0.057	33			
AEPW	'WILKES 138KV'	149	-0.03201	AEPW	'COMANCHE 138KV'	160	0.02446	-0.05647	33			
AEPW	'WILKES 138KV'	149	-0.03201	AEPW	'WEATHERFORD 34KV'	148	0.02435	-0.05636	33			
AEPW	'EASTMAN 138KV'	330	-0.02808	AEPW	'SOUTHWESTERN STATION 138KV'	268	0.02713	-0.05521	34			
SWPA	'GREERS FERRY 161KV'	17	0.00227	SWPA	'DENISON 138KV'	59	0.0562	-0.05393	34			
SWPA	'INDEPENDENCE 161KV'	13	0.00217	SWPA	'DENISON 138KV'	59	0.0562	-0.05403	34			
SWPA	'KENNETT 69KV'	22	0.00229	SWPA	'DENISON 138KV'	59	0.0562	-0.05391	34			
AEPW	'KNOXLEE 138KV'	162	-0.02784	AEPW	'SOUTHWESTERN STATION 138KV'	268	0.02713	-0.05497	34			
AEPW	'KNOXLEE 138KV'	60	-0.02784	AEPW	'SOUTHWESTERN STATION 138KV'	268	0.02713	-0.05497	34			
AEPW	'LEBROCK 345KV'	332	-0.02762	AEPW	'SOUTHWESTERN STATION 138KV'	268	0.02713	-0.05475	34			
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03268	AEPW	'COGENTRIX 345KV'	665	0.02123	-0.05391	34			
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03268	AEPW	'RIVERSIDE STATION 138KV'	646	0.02272	-0.0554	34			
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03268	AEPW	'TULSA POWER STATION 138KV'	111	0.02211	-0.05479	34			
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03268	AEPW	'TULSA POWER STATION 138KV'	75	0.02211	-0.05479	34			

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

SWPA	'PARAGOULD 69KV'	12	0.00203	SWPA	'DENISON 138KV'	59	0.0562	-0.05417	34
AEPW	'PIRKEY GENERATION 138KV'	40	-0.02779	AEPW	'SOUTHWESTERN STATION 138KV'	268	0.02713	-0.05492	34
AEPW	'WELSH 345KV'	54	-0.02987	AEPW	'COMANCHE 138KV'	160	0.02446	-0.05433	34
AEPW	'WELSH 345KV'	54	-0.02987	AEPW	'WEATHERFORD 34KV'	148	0.02435	-0.05422	34
AEPW	'WILKES 138KV'	149	-0.03201	AEPW	'RIVERSIDE STATION 138KV'	646	0.02272	-0.05473	34
AEPW	'WILKES 138KV'	149	-0.03201	AEPW	'TULSA POWER STATION 138KV'	111	0.02211	-0.05412	34
AEPW	'WILKES 138KV'	149	-0.03201	AEPW	'TULSA POWER STATION 138KV'	75	0.02211	-0.05412	34
AEPW	'ARSENAL HILL 69KV'	99	-0.02548	AEPW	'SOUTHWESTERN STATION 138KV'	268	0.02713	-0.05261	35
AEPW	'EASTMAN 138KV'	330	-0.02808	AEPW	'COMANCHE 138KV'	160	0.02446	-0.05254	35
AEPW	'EASTMAN 138KV'	330	-0.02808	AEPW	'COMANCHE 69KV'	63	0.02574	-0.05382	35
AEPW	'EASTMAN 138KV'	330	-0.02808	AEPW	'WEATHERFORD 34KV'	148	0.02435	-0.05243	35
AEPW	'KNOXLEE 138KV'	162	-0.02784	AEPW	'COMANCHE 69KV'	63	0.02574	-0.05358	35
AEPW	'KNOXLEE 138KV'	60	-0.02784	AEPW	'COMANCHE 69KV'	63	0.02574	-0.05358	35
AEPW	'LEBROCK 345KV'	332	-0.02762	AEPW	'COMANCHE 69KV'	63	0.02574	-0.05336	35
AEPW	'LIEBERMAN 138KV'	154	-0.02624	AEPW	'SOUTHWESTERN STATION 138KV'	268	0.02713	-0.05337	35
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03268	AEPW	'NORTHEASTERN STATION 138KV'	405	0.01993	-0.05261	35
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03268	AEPW	'NORTHEASTERN STATION 138KV'	95	0.01993	-0.05261	35
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.03268	AEPW	'OEC 345KV'	156	0.02025	-0.05293	35
AEPW	'PIRKEY GENERATION 138KV'	40	-0.02779	AEPW	'COMANCHE 69KV'	63	0.02574	-0.05353	35
AEPW	'TENASKA GATEWAY 345KV'	937	-0.02632	AEPW	'SOUTHWESTERN STATION 138KV'	268	0.02713	-0.05345	35
AEPW	'WELSH 345KV'	54	-0.02987	AEPW	'RIVERSIDE STATION 138KV'	646	0.02272	-0.05259	35
AEPW	'WILKES 138KV'	149	-0.03201	AEPW	'COGENTRIX 345KV'	665	0.02123	-0.05324	35
AEPW	'ARSENAL HILL 69KV'	99	-0.02548	AEPW	'COMANCHE 69KV'	63	0.02574	-0.05122	36
AEPW	'KNOXLEE 138KV'	162	-0.02784	AEPW	'COMANCHE 138KV'	160	0.02446	-0.0523	36

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: CITY OF WELLINGTON - SUMNER COUNTY NO. 4 ROME 69KV CKT 1  
 Limiting Facility: CITY OF WELLINGTON - SUMNER COUNTY NO. 4 ROME 69KV CKT 1  
 Direction: To->From  
 Line Outage: EL PASO - FARBER 138KV CKT 1  
 Flowgate: 57560575531570395704214407SP  
 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	Redispatch Amount (MW)
1090609		0.5	WERE	'ABILENE ENERGY CENTER 115KV'	6	0.0062	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48488	1
			WERE	'BPU - CITY OF MCPHERSON 115KV'	36	0.0062	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48488	1
			WERE	'BROWN COUNTY 115KV'	6	0.00549	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48559	1
			WERE	'CHANUTE 69KV'	31	0.00236	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48872	1
			WERE	'CITY OF AUGUSTA 69KV'	4	0.00197	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48911	1
			WERE	'CITY OF BURLINGTON 69KV'	3	0.00915	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48193	1
			WERE	'CITY OF ERIE 69KV'	3	0.00236	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48872	1
			WERE	'CITY OF GIRARD 69KV'	6	0.00171	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48937	1
			WERE	'CITY OF IOLA 69KV'	13	0.00236	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48872	1
			WERE	'CITY OF MULVANE 69KV'	8	0.02524	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.46584	1
			WERE	'CITY OF NEODESHA 69KV'	5	0.00163	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48945	1
			WERE	'CITY OF OSAGE CITY 115KV'	11	0.00662	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48446	1
			WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.64588	1
			WERE	'CLAY CENTER JUNCTION 115KV'	12	0.00622	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48486	1
			WERE	'EVANS ENERGY CENTER 138KV'	8	0.01751	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.47357	1
			WERE	'GETTY 69KV'	35	0.01043	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48065	1
			WERE	'GILL ENERGY CENTER 138KV'	2	0.03015	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.46093	1
			WERE	'GILL ENERGY CENTER 69KV'	8	0.0482	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.44288	1
			WERE	'HOLTON 115KV'	17	0.00566	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48542	1
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	133	0.00632	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48476	1
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	0.00632	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48476	1
			WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.00605	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48503	1
			WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.00603	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48505	1
			WERE	'LATHAM1234.0 345KV'	150	0.00955	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48153	1
			WERE	'LAWRENCE ENERGY CENTER 115KV'	8	0.00569	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48539	1
			WERE	'LAWRENCE ENERGY CENTER 230KV'	34	0.00583	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48525	1
			WERE	'NEOSHO ENERGY CENTER 138KV'	47	0.0022	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48888	1
			WERE	'OXFORD 138KV'	3	-0.14876	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.63984	1
			WERE	'SMOKYHIL 230 230KV'	72	0.00597	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48511	1
			WERE	'SOUTH SENECA 115KV'	5	0.00554	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48554	1
			WERE	'ST JOHN 115KV'	8	0.00837	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48271	1
			WERE	'TECUMSEH ENERGY CENTER 115KV'	3	0.00599	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48509	1
			WERE	'TECUMSEH ENERGY CENTER 69KV'	41	0.00599	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48509	1
			WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.0062	-0.161	3
			WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'BPU - CITY OF MCPHERSON 115KV'	138	0.0062	-0.161	3
			WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'CHANUTE 69KV'	57	0.00236	-0.15716	3
			WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'CITY OF AUGUSTA 69KV'	24	0.00197	-0.15677	3
			WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'CITY OF BURLINGTON 69KV'	9	0.00915	-0.16395	3
			WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'CITY OF ERIE 69KV'	24	0.00236	-0.15716	3
			WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'CITY OF FREDONIA 69KV'	10	0.00236	-0.15716	3
			WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'CITY OF GIRARD 69KV'	5	0.00171	-0.15651	3
			WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'CITY OF IOLA 69KV'	24	0.00236	-0.15716	3
			WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'CITY OF MULVANE 69KV'	8	0.02524	-0.18004	3
			WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'CLAY CENTER JUNCTION 115KV'	26	0.00622	-0.16102	3
			WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00915	-0.16395	3
			WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'EVANS ENERGY CENTER 138KV'	565	0.01751	-0.17231	3
			WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'GILL ENERGY CENTER 138KV'	171	0.03015	-0.18495	3
			WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.203	3
			WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'HOLTON 115KV'	16	0.00566	-0.16046	3
			WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'HUTCHINSON ENERGY CENTER 115KV'	210	0.00632	-0.16112	3
			WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	0.00632	-0.16112	3
			WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00605	-0.16085	3
			WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00603	-0.16083	3

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.00569	-0.16049	3
WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.00583	-0.16063	3
WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'SOUTH SENECA 115KV'	15	0.00554	-0.16034	3
WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.00599	-0.16079	3
WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'WACO 138KV'	18	0.02886	-0.18366	3
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.0062	-0.15496	3
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'BPU - CITY OF MCPHERSON 115KV'	138	0.0062	-0.15496	3
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'CHANUTE 69KV'	57	0.00236	-0.15112	3
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'CITY OF AUGUSTA 69KV'	24	0.00197	-0.15073	3
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'CITY OF BURLINGTON 69KV'	9	0.00915	-0.15791	3
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'CITY OF ERIE 69KV'	24	0.00236	-0.15112	3
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'CITY OF FREDONIA 69KV'	10	0.00236	-0.15112	3
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'CITY OF GIRARD 69KV'	5	0.00171	-0.15047	3
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'CITY OF IOLA 69KV'	24	0.00236	-0.15112	3
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'CITY OF MULVANE 69KV'	8	0.02524	-0.174	3
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'CLAY CENTER JUNCTION 115KV'	26	0.00622	-0.15498	3
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00915	-0.15791	3
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'EVANS ENERGY CENTER 138KV'	565	0.01751	-0.16627	3
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'GILL ENERGY CENTER 138KV'	171	0.03015	-0.17891	3
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.19696	3
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'HOLTON 115KV'	16	0.00566	-0.15442	3
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'HUTCHINSON ENERGY CENTER 115KV'	210	0.00632	-0.15508	3
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	0.00632	-0.15508	3
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00605	-0.15481	3
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00603	-0.15479	3
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.00569	-0.15445	3
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.00583	-0.15459	3
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'SOUTH SENECA 115KV'	15	0.00554	-0.1543	3
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.00599	-0.15475	3
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'WACO 138KV'	18	0.02886	-0.17762	3
WERE	'CHANUTE 69KV'	31	0.00236	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.04584	11
WERE	'CITY OF AUGUSTA 69KV'	4	0.00197	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.04623	11
WERE	'CITY OF GIRARD 69KV'	6	0.00171	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.04649	11
WERE	'CITY OF IOLA 69KV'	13	0.00236	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.04584	11
WERE	'CITY OF NEODESHA 69KV'	5	0.00163	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.04657	11
WERE	'NEOSHO ENERGY CENTER 138KV'	47	0.0022	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.046	11
WERE	'BROWN COUNTY 115KV'	6	0.00549	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.04271	12
WERE	'HOLTON 115KV'	17	0.00566	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.04254	12
WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.00605	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.04215	12
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.00603	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.04217	12
WERE	'LAWRENCE ENERGY CENTER 115KV'	8	0.00569	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.04251	12
WERE	'LAWRENCE ENERGY CENTER 230KV'	34	0.00583	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.04237	12
WERE	'SMOKYHIL 230 230KV'	72	0.00597	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.04223	12
WERE	'SOUTH SENECA 115KV'	5	0.00554	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.04266	12
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	0.00599	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.04221	12
WERE	'ABILENE ENERGY CENTER 115KV'	6	0.0062	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.042	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	36	0.0062	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.042	13

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: CITY OF WELLINGTON - SUMNER COUNTY NO. 4 ROME 69KV CKT 1  
 Limiting Facility: CITY OF WELLINGTON - SUMNER COUNTY NO. 4 ROME 69KV CKT 1  
 Direction: To->From  
 Line Outage: SPP-WERE-40  
 Flowgate: 57560575531SPP-WERE-404407SP  
 Date Redispatch Needed: 6/1/07 - 10/1/07  
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount	Source Control Area		Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
1090609	0.2	0	WERE	'ABILENE ENERGY CENTER 115KV'	6	0.00582	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47185	1
			WERE	'BPU - CITY OF MCPHERSON 115KV'	36	0.00584	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47183	1
			WERE	'BROWN COUNTY 115KV'	6	0.0051	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47257	1
			WERE	'CHANUTE 69KV'	31	0.00214	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47553	1
			WERE	'CITY OF AUGUSTA 69KV'	4	-0.00032	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47799	1
			WERE	'CITY OF BURLINGTON 69KV'	3	0.00854	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.46913	1
			WERE	'CITY OF ERIE 69KV'	3	0.00214	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47553	1
			WERE	'CITY OF GIRARD 69KV'	6	0.00158	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47609	1
			WERE	'CITY OF IOLA 69KV'	13	0.00215	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47552	1
			WERE	'CITY OF MULVANE 69KV'	8	0.02391	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.45376	1
			WERE	'CITY OF NEODESHA 69KV'	5	0.00145	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47622	1
			WERE	'CITY OF OSAGE CITY 115KV'	11	0.00621	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47146	1
			WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.00582	-0.17934	1
			WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'BPU - CITY OF MCPHERSON 115KV'	138	0.00584	-0.17936	1
			WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'CHANUTE 69KV'	57	0.00214	-0.17566	1
			WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00032	-0.1732	1
			WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'CITY OF BURLINGTON 69KV'	9	0.00854	-0.18206	1
			WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'CITY OF ERIE 69KV'	24	0.00214	-0.17566	1
			WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'CITY OF FREDONIA 69KV'	10	0.00212	-0.17564	1
			WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'CITY OF GIRARD 69KV'	5	0.00158	-0.1751	1
			WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'CITY OF IOLA 69KV'	24	0.00215	-0.17567	1
			WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'CITY OF MULVANE 69KV'	8	0.02391	-0.19743	1
			WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.65119	1
			WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'CLAY CENTER JUNCTION 115KV'	26	0.00584	-0.17936	1
			WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00854	-0.18206	1
			WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'EVANS ENERGY CENTER 138KV'	565	0.01656	-0.19008	1
			WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'GILL ENERGY CENTER 138KV'	171	0.02877	-0.20229	1
			WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.21987	1
			WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'HOLTON 115KV'	16	0.00528	-0.1788	1
			WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'HUTCHINSON ENERGY CENTER 115KV'	210	0.00595	-0.17947	1

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	0.00595	-0.17947	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00567	-0.17919	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00566	-0.17918	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.00533	-0.17885	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.00546	-0.17885	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'SOUTH SENECA 115KV'	15	0.00514	-0.17866	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.00562	-0.17914	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'WACO 138KV'	18	0.02753	-0.20105	1
WERE	'CLAY CENTER JUNCTION 115KV'	12	0.00584	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47183	1
WERE	'EVANS ENERGY CENTER 138KV'	8	0.01656	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.46111	1
WERE	'GETTY 69KV'	35	0.00919	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.46848	1
WERE	'GILL ENERGY CENTER 138KV'	2	0.02877	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.4489	1
WERE	'GILL ENERGY CENTER 69KV'	8	0.04635	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.43132	1
WERE	'HOLTON 115KV'	17	0.00528	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47239	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	133	0.00595	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47172	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	0.00595	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47172	1
WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.00567	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.4721	1
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.00566	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47201	1
WERE	'LATHAM1234.0 345KV'	150	0.00889	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.46878	1
WERE	'LAWRENCE ENERGY CENTER 115KV'	8	0.00533	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47234	1
WERE	'LAWRENCE ENERGY CENTER 230KV'	34	0.00546	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47221	1
WERE	'NEOSHO ENERGY CENTER 138KV'	47	0.00202	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47565	1
WERE	'OXFORD 138KV'	3	0.01738	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.46029	1
WERE	'SMOKYHIL 230 230KV'	72	0.00561	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47206	1
WERE	'SOUTH SENECA 115KV'	5	0.00514	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47253	1
WERE	'ST JOHN 115KV'	8	0.00793	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.46974	1
WERE	'TECUMSEH ENERGY CENTER 115KV'	3	0.00562	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47205	1
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	0.00561	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47206	1
WERE	'CHANUTE 69KV'	31	0.00214	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04421	5
WERE	'CITY OF AUGUSTA 69KV'	4	-0.00032	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04667	5
WERE	'CITY OF ERIE 69KV'	3	0.00214	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04421	5
WERE	'CITY OF GIRARD 69KV'	6	0.00158	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04477	5
WERE	'CITY OF IOLA 69KV'	13	0.00215	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.0442	5
WERE	'CITY OF NEODESHA 69KV'	5	0.00145	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.0449	5
WERE	'NEOSHO ENERGY CENTER 138KV'	47	0.00202	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04433	5
WERE	'ABILENE ENERGY CENTER 115KV'	6	0.00582	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04053	6
WERE	'BPU - CITY OF MCPHERSON 115KV'	36	0.00584	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04051	6
WERE	'BROWN COUNTY 115KV'	6	0.0051	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04125	6
WERE	'CITY OF BURLINGTON 69KV'	3	0.00854	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.03781	6
WERE	'CITY OF OSAGE CITY 115KV'	11	0.00621	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04014	6
WERE	'CLAY CENTER JUNCTION 115KV'	12	0.00584	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04051	6
WERE	'GETTY 69KV'	35	0.00919	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.03716	6
WERE	'HOLTON 115KV'	17	0.00528	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04107	6
WERE	'HUTCHINSON ENERGY CENTER 115KV'	133	0.00595	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.0404	6
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	0.00595	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.0404	6
WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.00567	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04068	6
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.00566	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04069	6
WERE	'LATHAM1234.0 345KV'	150	0.00889	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.03746	6
WERE	'LAWRENCE ENERGY CENTER 115KV'	8	0.00533	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04102	6
WERE	'LAWRENCE ENERGY CENTER 230KV'	34	0.00546	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04089	6
WERE	'SMOKYHIL 230 230KV'	72	0.00561	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04074	6
WERE	'SOUTH SENECA 115KV'	5	0.00514	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04121	6
WERE	'ST JOHN 115KV'	8	0.00793	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.03842	6
WERE	'TECUMSEH ENERGY CENTER 115KV'	3	0.00562	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04073	6
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	0.00561	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04074	6

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: CRESWELL - SUMNER COUNTY NO. 4 ROME 69KV CKT 1  
 Limiting Facility: CRESWELL - SUMNER COUNTY NO. 4 ROME 69KV CKT 1  
 Direction: To->From  
 Line Outage: EL PASO - FARBER 138KV CKT 1  
 Flowgate: 57543575531570395704214407SP  
 Date Redispatch Needed: 6/1/07 - 10/1/07  
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount								
1090609	0.4	0	Maximum Increment (MW)		Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
WERE	'ABILENE ENERGY CENTER 115KV'	6	0.0062	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48488	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	36	0.0062	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48488	1	
WERE	'BROWN COUNTY 115KV'	6	0.00549	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48559	1	
WERE	'CHANUTE 69KV'	31	0.00236	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48872	1	
WERE	'CITY OF AUGUSTA 69KV'	4	0.00197	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48911	1	
WERE	'CITY OF BURLINGTON 69KV'	3	0.00915	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48193	1	
WERE	'CITY OF ERIE 69KV'	3	0.00236	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48872	1	
WERE	'CITY OF GIRARD 69KV'	6	0.00171	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48937	1	
WERE	'CITY OF IOLA 69KV'	13	0.00236	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48872	1	
WERE	'CITY OF MULVANE 69KV'	8	0.02524	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.46584	1	
WERE	'CITY OF NEODESHA 69KV'	5	0.00163	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48945	1	
WERE	'CITY OF OSAGE CITY 115KV'	11	0.00662	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48446	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.64588	1	
WERE	'CLAY CENTER JUNCTION 115KV'	12	0.00622	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48486	1	
WERE	'EVANS ENERGY CENTER 138KV'	8	0.01751	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.47357	1	
WERE	'GETTY 69KV'	35	0.01043	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48065	1	
WERE	'GILL ENERGY CENTER 138KV'	2	0.03015	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.46093	1	
WERE	'GILL ENERGY CENTER 69KV'	8	0.0482	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.44288	1	
WERE	'HOLTON 115KV'	17	0.00566	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48542	1	
WERE	'HUTCHINSON ENERGY CENTER 115KV'	133	0.00632	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48476	1	
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	0.00632	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48476	1	
WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.00605	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48503	1	

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.00603	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48505	1
WERE	'LATHAM1234.0 345KV'	150	0.00955	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48153	1
WERE	'LAWRENCE ENERGY CENTER 115KV'	8	0.00569	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48539	1
WERE	'LAWRENCE ENERGY CENTER 230KV'	34	0.00583	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48525	1
WERE	'NEOSHO ENERGY CENTER 138KV'	47	0.0022	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48888	1
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.63984	1
WERE	'SMOKYHIL 230 230KV'	72	0.00597	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48511	1
WERE	'SOUTH SENECA 115KV'	5	0.00554	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48554	1
WERE	'ST JOHN 115KV'	8	0.00837	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48271	1
WERE	'TECUMSEH ENERGY CENTER 115KV'	3	0.00599	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48509	1
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	0.00599	WERE	'CITY OF WELLINGTON 69KV'	41	0.49108	-0.48509	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.0062	-0.161	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'BPU - CITY OF MCPHERSON 115KV'	138	0.0062	-0.161	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'CHANUTE 69KV'	57	0.00236	-0.15716	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'CITY OF AUGUSTA 69KV'	24	0.00197	-0.15677	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'CITY OF BURLINGTON 69KV'	9	0.00915	-0.16395	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'CITY OF ERIE 69KV'	24	0.00236	-0.15716	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'CITY OF FREDONIA 69KV'	10	0.00236	-0.15716	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'CITY OF GIRARD 69KV'	5	0.00171	-0.15651	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'CITY OF IOLA 69KV'	24	0.00236	-0.15716	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'CITY OF MULVANE 69KV'	8	0.02524	-0.18004	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'CLAY CENTER JUNCTION 115KV'	26	0.00622	-0.16102	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00915	-0.16395	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'EVANS ENERGY CENTER 138KV'	565	0.01751	-0.17231	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'GILL ENERGY CENTER 138KV'	171	0.03015	-0.18495	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.203	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'HOLTON 115KV'	16	0.00566	-0.16046	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'HUTCHINSON ENERGY CENTER 115KV'	210	0.00632	-0.16112	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	0.00632	-0.16112	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00605	-0.16085	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00603	-0.16083	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.00569	-0.16049	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.00583	-0.16063	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'SOUTH SENECA 115KV'	15	0.00554	-0.16034	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.00599	-0.16079	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.1548	WERE	'WACO 138KV'	18	0.02886	-0.18366	2
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.0062	-0.15496	2
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'BPU - CITY OF MCPHERSON 115KV'	138	0.0062	-0.15496	2
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'CHANUTE 69KV'	57	0.00236	-0.15112	2
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'CITY OF AUGUSTA 69KV'	24	0.00197	-0.15073	2
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'CITY OF BURLINGTON 69KV'	9	0.00915	-0.15791	2
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'CITY OF ERIE 69KV'	24	0.00236	-0.15112	2
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'CITY OF FREDONIA 69KV'	10	0.00236	-0.15112	2
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'CITY OF GIRARD 69KV'	5	0.00171	-0.15047	2
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'CITY OF IOLA 69KV'	24	0.00236	-0.15112	2
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'CITY OF MULVANE 69KV'	8	0.02524	-0.174	2
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'CLAY CENTER JUNCTION 115KV'	26	0.00622	-0.15498	2
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00915	-0.15791	2
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'EVANS ENERGY CENTER 138KV'	565	0.01751	-0.16627	2
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'GILL ENERGY CENTER 138KV'	171	0.03015	-0.17891	2
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.19696	2
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'HOLTON 115KV'	16	0.00566	-0.15442	2
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'HUTCHINSON ENERGY CENTER 115KV'	210	0.00632	-0.15508	2
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	0.00632	-0.15508	2
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00605	-0.15481	2
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00603	-0.15479	2
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.00569	-0.15445	2
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.00583	-0.15459	2
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'SOUTH SENECA 115KV'	15	0.00554	-0.1543	2
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.00599	-0.15475	2
WERE	'OXFORD 138KV'	3	-0.14876	WERE	'WACO 138KV'	18	0.02886	-0.17762	2
WERE	'CHANUTE 69KV'	31	0.00236	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.04584	8
WERE	'CITY OF AUGUSTA 69KV'	4	0.00197	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.04623	8
WERE	'CITY OF GIRARD 69KV'	6	0.00171	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.04649	8
WERE	'CITY OF IOLA 69KV'	13	0.00236	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.04584	8
WERE	'CITY OF NEODESHA 69KV'	5	0.00163	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.04657	8
WERE	'NEOSHO ENERGY CENTER 138KV'	47	0.0022	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.046	8
WERE	'ABILENE ENERGY CENTER 115KV'	6	0.0062	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.042	9
WERE	'BPU - CITY OF MCPHERSON 115KV'	36	0.0062	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.042	9
WERE	'BROWN COUNTY 115KV'	6	0.00549	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.04271	9
WERE	'CITY OF OSAGE CITY 115KV'	11	0.00662	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.04158	9
WERE	'CLAY CENTER JUNCTION 115KV'	12	0.00622	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.04198	9
WERE	'HOLTON 115KV'	17	0.00566	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.04254	9
WERE	'HUTCHINSON ENERGY CENTER 115KV'	133	0.00632	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.04188	9
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	0.00632	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.04188	9
WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.00605	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.04215	9
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.00603	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.04217	9
WERE	'LAWRENCE ENERGY CENTER 115KV'	8	0.00569	WERE	'GILL ENERGY CENTER 69KV'	75	0.0482	-0.04251	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: CRESWELL - SUMNER COUNTY NO. 4 ROME 69KV CKT 1  
 Limiting Facility: CRESWELL - SUMNER COUNTY NO. 4 ROME 69KV CKT 1  
 Direction: To->From  
 Line Outage: SPP-WERE-40  
 Flowgate: 57543575531SPP-WERE-404407SP  
 Date Redispatch Needed: 6/1/07 - 10/1/07  
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090609	0.1	0

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

Source Control Area	Source	Maximum Increment (MW)		Sink Control Area	Sink	Maximum Decrement (MW)		Factor	Redispatch Amount (MW)
		GSF				GSF			
WERE	'ABILENE ENERGY CENTER 115KV'	6	0.00582	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47185	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	36	0.00584	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47183	1
WERE	'BROWN COUNTY 115KV'	6	0.0051	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47257	1
WERE	'CHANUTE 69KV'	31	0.00214	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47553	1
WERE	'CITY OF AUGUSTA 69KV'	4	-0.00032	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47799	1
WERE	'CITY OF BURLINGTON 69KV'	3	0.00854	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.46913	1
WERE	'CITY OF ERIE 69KV'	3	0.00214	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47553	1
WERE	'CITY OF GIRARD 69KV'	6	0.00158	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47609	1
WERE	'CITY OF IOLA 69KV'	13	0.00215	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47552	1
WERE	'CITY OF MULVANE 69KV'	8	0.02391	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.45376	1
WERE	'CITY OF NEODESHA 69KV'	5	0.00145	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47622	1
WERE	'CITY OF OSAGE CITY 115KV'	11	0.00621	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47146	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.00582	-0.17934	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'BPU - CITY OF MCPHERSON 115KV'	138	0.00584	-0.17936	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'CHANUTE 69KV'	57	0.00214	-0.17566	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00032	-0.1732	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'CITY OF BURLINGTON 69KV'	9	0.00854	-0.18206	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'CITY OF ERIE 69KV'	24	0.00214	-0.17566	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'CITY OF FREDONIA 69KV'	10	0.00212	-0.17564	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'CITY OF GIRARD 69KV'	5	0.00158	-0.1751	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'CITY OF IOLA 69KV'	24	0.00215	-0.17567	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'CITY OF MULVANE 69KV'	8	0.02391	-0.19743	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.65119	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'CLAY CENTER JUNCTION 115KV'	26	0.00584	-0.17936	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00854	-0.18206	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'EVANS ENERGY CENTER 138KV'	565	0.01656	-0.19008	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'GILL ENERGY CENTER 138KV'	171	0.02877	-0.20229	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.21987	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'HOLTON 115KV'	16	0.00528	-0.1788	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'HUTCHINSON ENERGY CENTER 115KV'	210	0.00595	-0.17947	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	0.00595	-0.17947	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00567	-0.17919	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00566	-0.17918	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.00533	-0.17885	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.00546	-0.17898	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'SOUTH SENECA 115KV'	15	0.00514	-0.17866	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.00562	-0.17914	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.17352	WERE	'WACO 138KV'	18	0.02753	-0.20105	1
WERE	'CLAY CENTER JUNCTION 115KV'	12	0.00584	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47183	1
WERE	'EVANS ENERGY CENTER 138KV'	8	0.01656	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.46111	1
WERE	'GETTY 69KV'	35	0.00919	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.46848	1
WERE	'GILL ENERGY CENTER 138KV'	2	0.02877	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.4489	1
WERE	'GILL ENERGY CENTER 69KV'	8	0.04635	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.43132	1
WERE	'HOLTON 115KV'	17	0.00528	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47239	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	133	0.00595	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47172	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	0.00595	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47172	1
WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.00567	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.472	1
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.00566	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47201	1
WERE	'LATHAM1234.0 345KV'	150	0.00889	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.46878	1
WERE	'LAWRENCE ENERGY CENTER 115KV'	8	0.00533	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47234	1
WERE	'LAWRENCE ENERGY CENTER 230KV'	34	0.00546	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47221	1
WERE	'NEOSHO ENERGY CENTER 138KV'	47	0.00202	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47565	1
WERE	'OXFORD 138KV'	3	0.01738	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.46029	1
WERE	'SMOKYHIL 230 230KV'	72	0.00561	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47206	1
WERE	'SOUTH SENECA 115KV'	5	0.00514	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47253	1
WERE	'ST JOHN 115KV'	8	0.00793	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.46974	1
WERE	'TECUMSEH ENERGY CENTER 115KV'	3	0.00562	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47205	1
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	0.00561	WERE	'CITY OF WELLINGTON 69KV'	41	0.47767	-0.47206	1
WERE	'ABILENE ENERGY CENTER 115KV'	6	0.00582	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04053	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	36	0.00584	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04051	2
WERE	'BROWN COUNTY 115KV'	6	0.0051	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04125	2
WERE	'CHANUTE 69KV'	31	0.00214	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04421	2
WERE	'CITY OF AUGUSTA 69KV'	4	-0.00032	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04667	2
WERE	'CITY OF BURLINGTON 69KV'	3	0.00854	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.03781	2
WERE	'CITY OF ERIE 69KV'	3	0.00214	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04421	2
WERE	'CITY OF GIRARD 69KV'	6	0.00158	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04477	2
WERE	'CITY OF IOLA 69KV'	13	0.00215	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.0442	2
WERE	'CITY OF NEODESHA 69KV'	5	0.00145	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.0449	2
WERE	'CITY OF OSAGE CITY 115KV'	11	0.00621	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04014	2
WERE	'CLAY CENTER JUNCTION 115KV'	12	0.00584	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04051	2
WERE	'GETTY 69KV'	35	0.00919	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.03716	2
WERE	'HOLTON 115KV'	17	0.00528	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04107	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	133	0.00595	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.0404	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	0.00595	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.0404	2
WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.00567	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04068	2
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.00566	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04069	2
WERE	'LATHAM1234.0 345KV'	150	0.00889	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.03746	2
WERE	'LAWRENCE ENERGY CENTER 115KV'	8	0.00533	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04102	2
WERE	'LAWRENCE ENERGY CENTER 230KV'	34	0.00546	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04089	2
WERE	'NEOSHO ENERGY CENTER 138KV'	47	0.00202	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04433	2
WERE	'SMOKYHIL 230 230KV'	72	0.00561	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04074	2
WERE	'SOUTH SENECA 115KV'	5	0.00514	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04121	2
WERE	'ST JOHN 115KV'	8	0.00793	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.03842	2
WERE	'TECUMSEH ENERGY CENTER 115KV'	3	0.00562	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04073	2
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	0.00561	WERE	'GILL ENERGY CENTER 69KV'	75	0.04635	-0.04074	2

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: CRESWELL (CRESWL2X) 138/69/13.2KV TRANSFORMER CKT 1  
 Limiting Facility: CRESWELL (CRESWL2X) 138/69/13.2KV TRANSFORMER CKT 1  
 Direction: From->To

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

Line Outage: SPP-WERE-40  
 Flowgate: CREESSL2X2421SPP-WERE-403307SP  
 Date Redispatch Needed: 6/1/07 - 10/1/07  
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount											
1086655		0.4	1										
1086656		0.1	1										
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)				
WERE	'CITY OF WINFIELD 69KV'	40	-0.51469	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.01043	-0.50426	1				
WERE	'CITY OF WINFIELD 69KV'	40	-0.51469	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	-0.01011	-0.50458	1				
WERE	'CITY OF WINFIELD 69KV'	40	-0.51469	WERE	'CHANUTE 69KV'	57	-0.00599	-0.5087	1				
WERE	'CITY OF WINFIELD 69KV'	40	-0.51469	WERE	'CITY OF AUGUSTA 69KV'	24	-0.06317	-0.45152	1				
WERE	'CITY OF WINFIELD 69KV'	40	-0.51469	WERE	'CITY OF BURLINGTON 69KV'	9	-0.01697	-0.49772	1				
WERE	'CITY OF WINFIELD 69KV'	40	-0.51469	WERE	'CITY OF ERIE 69KV'	24	-0.00599	-0.5087	1				
WERE	'CITY OF WINFIELD 69KV'	40	-0.51469	WERE	'CITY OF FREDONIA 69KV'	10	-0.00645	-0.50824	1				
WERE	'CITY OF WINFIELD 69KV'	40	-0.51469	WERE	'CITY OF GIRARD 69KV'	5	-0.0037	-0.51099	1				
WERE	'CITY OF WINFIELD 69KV'	40	-0.51469	WERE	'CITY OF IOLA 69KV'	24	-0.00562	-0.50907	1				
WERE	'CITY OF WINFIELD 69KV'	40	-0.51469	WERE	'CITY OF MULVANE 69KV'	8	-0.03644	-0.47825	1				
WERE	'CITY OF WINFIELD 69KV'	40	-0.51469	WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.01054	-0.50415	1				
WERE	'CITY OF WINFIELD 69KV'	40	-0.51469	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	-0.01697	-0.49772	1				
WERE	'CITY OF WINFIELD 69KV'	40	-0.51469	WERE	'EVANS ENERGY CENTER 138KV'	400	-0.02588	-0.48881	1				
WERE	'CITY OF WINFIELD 69KV'	40	-0.51469	WERE	'GILL ENERGY CENTER 138KV'	155	-0.03781	-0.47688	1				
WERE	'CITY OF WINFIELD 69KV'	40	-0.51469	WERE	'HOLTON 115KV'	16	-0.01048	-0.50421	1				
WERE	'CITY OF WINFIELD 69KV'	40	-0.51469	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	-0.01012	-0.50457	1				
WERE	'CITY OF WINFIELD 69KV'	40	-0.51469	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.01044	-0.50425	1				
WERE	'CITY OF WINFIELD 69KV'	40	-0.51469	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.01041	-0.50428	1				
WERE	'CITY OF WINFIELD 69KV'	40	-0.51469	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	-0.00996	-0.50473	1				
WERE	'CITY OF WINFIELD 69KV'	40	-0.51469	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	-0.01017	-0.50452	1				
WERE	'CITY OF WINFIELD 69KV'	40	-0.51469	WERE	'SOUTH SENECA 115KV'	15	-0.01087	-0.50382	1				
WERE	'CITY OF WINFIELD 69KV'	40	-0.51469	WERE	'TECUMSEH ENERGY CENTER 115KV'	128	-0.01042	-0.50427	1				
WERE	'CITY OF WINFIELD 69KV'	40	-0.51469	WERE	'WACO 138KV'	18	-0.03659	-0.4781	1				
WERE	'CITY OF WELLINGTON 69KV'	2	-0.36852	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.01043	-0.35809	2				
WERE	'CITY OF WELLINGTON 69KV'	2	-0.36852	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	-0.01011	-0.35841	2				
WERE	'CITY OF WELLINGTON 69KV'	2	-0.36852	WERE	'CHANUTE 69KV'	57	-0.00599	-0.36253	2				
WERE	'CITY OF WELLINGTON 69KV'	2	-0.36852	WERE	'CITY OF AUGUSTA 69KV'	24	-0.06317	-0.30535	2				
WERE	'CITY OF WELLINGTON 69KV'	2	-0.36852	WERE	'CITY OF BURLINGTON 69KV'	9	-0.01697	-0.35155	2				
WERE	'CITY OF WELLINGTON 69KV'	2	-0.36852	WERE	'CITY OF ERIE 69KV'	24	-0.00599	-0.36253	2				
WERE	'CITY OF WELLINGTON 69KV'	2	-0.36852	WERE	'CITY OF FREDONIA 69KV'	10	-0.00645	-0.36207	2				
WERE	'CITY OF WELLINGTON 69KV'	2	-0.36852	WERE	'CITY OF GIRARD 69KV'	5	-0.0037	-0.36482	2				
WERE	'CITY OF WELLINGTON 69KV'	2	-0.36852	WERE	'CITY OF IOLA 69KV'	24	-0.00562	-0.3629	2				
WERE	'CITY OF WELLINGTON 69KV'	2	-0.36852	WERE	'CITY OF MULVANE 69KV'	8	-0.03644	-0.33208	2				
WERE	'CITY OF WELLINGTON 69KV'	2	-0.36852	WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.01054	-0.35798	2				
WERE	'CITY OF WELLINGTON 69KV'	2	-0.36852	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	-0.01697	-0.35155	2				
WERE	'CITY OF WELLINGTON 69KV'	2	-0.36852	WERE	'EVANS ENERGY CENTER 138KV'	400	-0.02588	-0.34264	2				
WERE	'CITY OF WELLINGTON 69KV'	2	-0.36852	WERE	'GILL ENERGY CENTER 138KV'	155	-0.03781	-0.33071	2				
WERE	'CITY OF WELLINGTON 69KV'	2	-0.36852	WERE	'HOLTON 115KV'	16	-0.01048	-0.35804	2				
WERE	'CITY OF WELLINGTON 69KV'	2	-0.36852	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	-0.01012	-0.3584	2				
WERE	'CITY OF WELLINGTON 69KV'	2	-0.36852	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.01044	-0.35808	2				
WERE	'CITY OF WELLINGTON 69KV'	2	-0.36852	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.01041	-0.35811	2				
WERE	'CITY OF WELLINGTON 69KV'	2	-0.36852	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	-0.00996	-0.35856	2				
WERE	'CITY OF WELLINGTON 69KV'	2	-0.36852	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	-0.01017	-0.35835	2				
WERE	'CITY OF WELLINGTON 69KV'	2	-0.36852	WERE	'SOUTH SENECA 115KV'	15	-0.01087	-0.35765	2				
WERE	'CITY OF WELLINGTON 69KV'	2	-0.36852	WERE	'TECUMSEH ENERGY CENTER 115KV'	128	-0.01042	-0.3581	2				
WERE	'CITY OF WELLINGTON 69KV'	2	-0.36852	WERE	'WACO 138KV'	18	-0.03659	-0.33193	2				
WERE	'CITY OF WINFIELD 69KV'	40	-0.51469	WERE	'CITY OF WELLINGTON 69KV'	41	-0.36852	-0.14617	4				
OMPA	'OMPA-MANGUM 69KV'	6	0.01284	OMPA	'OMPA-PONCA CITY 69KV'	152	0.07618	-0.06334	9				
WERE	'CITY OF AUGUSTA 69KV'	4	-0.06317	WERE	'CHANUTE 69KV'	57	-0.00599	-0.05718	10				
WERE	'CITY OF AUGUSTA 69KV'	4	-0.06317	WERE	'CITY OF ERIE 69KV'	24	-0.00599	-0.05718	10				
WERE	'CITY OF AUGUSTA 69KV'	4	-0.06317	WERE	'CITY OF FREDONIA 69KV'	10	-0.00645	-0.05672	10				
WERE	'CITY OF AUGUSTA 69KV'	4	-0.06317	WERE	'CITY OF GIRARD 69KV'	5	-0.0037	-0.05947	10				
WERE	'CITY OF AUGUSTA 69KV'	4	-0.06317	WERE	'CITY OF IOLA 69KV'	24	-0.00562	-0.05755	10				
OMPA	'OMPA-KINGFISHER BOWMAN 69KV'	19	0.02004	OMPA	'OMPA-PONCA CITY 69KV'	152	0.07618	-0.05614	10				
WERE	'CITY OF AUGUSTA 69KV'	4	-0.06317	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.01043	-0.05274	11				
WERE	'CITY OF AUGUSTA 69KV'	4	-0.06317	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	-0.01011	-0.05306	11				
WERE	'CITY OF AUGUSTA 69KV'	4	-0.06317	WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.01054	-0.05263	11				
WERE	'CITY OF AUGUSTA 69KV'	4	-0.06317	WERE	'HOLTON 115KV'	16	-0.01048	-0.05269	11				
WERE	'CITY OF AUGUSTA 69KV'	4	-0.06317	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	-0.01012	-0.05305	11				
WERE	'CITY OF AUGUSTA 69KV'	4	-0.06317	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.01044	-0.05273	11				
WERE	'CITY OF AUGUSTA 69KV'	4	-0.06317	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.01041	-0.05276	11				
WERE	'CITY OF AUGUSTA 69KV'	4	-0.06317	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	-0.00996	-0.05321	11				
WERE	'CITY OF AUGUSTA 69KV'	4	-0.06317	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	-0.01017	-0.053	11				
WERE	'CITY OF AUGUSTA 69KV'	4	-0.06317	WERE	'SOUTH SENECA 115KV'	15	-0.01087	-0.0523	11				
WERE	'CITY OF AUGUSTA 69KV'	4	-0.06317	WERE	'TECUMSEH ENERGY CENTER 115KV'	128	-0.01042	-0.05275	11				
OMPA	'OMPA-LAVERNE 69KV'	4	0.02114	OMPA	'OMPA-PONCA CITY 69KV'	152	0.07618	-0.05504	11				
WERE	'GILL ENERGY CENTER 69KV'	118	-0.0509	WERE	'CITY OF GIRARD 69KV'	5	-0.0037	-0.0472	12				
OMPA	'OMPA-PAWHUSKA NORTHEAST 138KV'	7	0.02831	OMPA	'OMPA-PONCA CITY 69KV'	152	0.07618	-0.04787	12				
WERE	'GILL ENERGY CENTER 69KV'	118	-0.0509	WERE	'CHANUTE 69KV'	57	-0.00599	-0.04491	13				
WERE	'GILL ENERGY CENTER 69KV'	118	-0.0509	WERE	'CITY OF ERIE 69KV'	24	-0.00599	-0.04491	13				
WERE	'GILL ENERGY CENTER 69KV'	118	-0.0509	WERE	'CITY OF FREDONIA 69KV'	10	-0.00645	-0.04445	13				
WERE	'GILL ENERGY CENTER 69KV'	118	-0.0509	WERE	'CITY OF IOLA 69KV'	24	-0.00562	-0.04528	13				
WERE	'GILL ENERGY CENTER 69KV'	118	-0.0509	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.01043	-0.04047	14				
WERE	'GILL ENERGY CENTER 69KV'	118	-0.0509	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	-0.01011	-0.04079	14				
WERE	'GILL ENERGY CENTER 69KV'	118	-0.0509	WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.01054	-0.04036	14				
WERE	'GILL ENERGY CENTER 69KV'	118	-0.0509	WERE	'HOLTON 115KV'	16	-0.01048	-0.04042	14				
WERE	'GILL ENERGY CENTER 69KV'	118	-0.0509	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	-0.01012	-0.04078	14				
WERE	'GILL ENERGY CENTER 69KV'	118	-0.0509	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.01044	-0.04046	14				
WERE	'GILL ENERGY CENTER 69KV'	118	-0.0509	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.01041	-0.04049	14				
WERE	'GILL ENERGY CENTER 69KV'	118	-0.0509	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	-0.00996	-0.04094	14				
WERE	'GILL ENERGY CENTER 69KV'	118	-0.0509	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	-0.01017	-0.04073	14				
WERE	'GILL ENERGY CENTER 69KV'	118	-0.0509	WERE	'TECUMSEH ENERGY CENTER 115KV'	128	-0.01042	-0.04048	14				
WERE	'GILL ENERGY CENTER 69KV'	118	-0.0509	WERE	'SOUTH SENECA 115KV'	15	-0.01087	-0.04003	15				
OKGE	'MUSKOGEE 161KV'	166	0.0066	OKGE	'SOONER 138KV'	505	0.04218	-0.03558	16				

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

OKGE	'MUSKOGEE 161KV'	31	0.0066	OKGE	'SOONER 138KV'	505	0.04218	-0.03558	16
WERE	'GILL ENERGY CENTER 69KV'	118	-0.0509	WERE	'CITY OF BURLINGTON 69KV'	9	-0.01697	-0.03393	17
WERE	'GILL ENERGY CENTER 69KV'	118	-0.0509	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	-0.01697	-0.03393	17
OKGE	'MUSKOGEE 345KV'	20	0.00705	OKGE	'SOONER 138KV'	505	0.04218	-0.03513	17
WERE	'GILL ENERGY CENTER 138KV'	18	-0.03781	WERE	'CHANUTE 69KV'	57	-0.00599	-0.03182	18
WERE	'GILL ENERGY CENTER 138KV'	18	-0.03781	WERE	'CITY OF ERIE 69KV'	24	-0.00599	-0.03182	18
WERE	'GILL ENERGY CENTER 138KV'	18	-0.03781	WERE	'CITY OF IOLA 69KV'	24	-0.00562	-0.03219	18
WERE	'CITY OF MULVANE 69KV'	8	-0.03644	WERE	'CHANUTE 69KV'	57	-0.00599	-0.03045	19
WERE	'CITY OF MULVANE 69KV'	8	-0.03644	WERE	'CITY OF ERIE 69KV'	24	-0.00599	-0.03045	19
WERE	'CITY OF MULVANE 69KV'	8	-0.03644	WERE	'CITY OF IOLA 69KV'	24	-0.00562	-0.03082	19
WERE	'GILL ENERGY CENTER 138KV'	18	-0.03781	WERE	'CITY OF FREDONIA 69KV'	10	-0.00645	-0.03136	19

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: CRESWELL (CRESWL2X) 138/69/13.2KV TRANSFORMER CKT 1  
 Limiting Facility: CRESWELL (CRESWL2X) 138/69/13.2KV TRANSFORMER CKT 1  
 Direction: From->To  
 Line Outage: SPP-WERE-40  
 Flowgate: CRESWL2X2421SPP-WERE-403308SP  
 Date Redispatch Needed: Starting 2008 6/1 - 10/1 Until EOC  
 Season Flowgate Identified: 2008 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount
1086655	1.2	2
1086656	0.4	2
1087908	0.1	2

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
WERE	'CITY OF WINFIELD 69KV'	40	-0.51467	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.01038	-0.50429	3
WERE	'CITY OF WINFIELD 69KV'	40	-0.51467	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	-0.01006	-0.50461	3
WERE	'CITY OF WINFIELD 69KV'	40	-0.51467	WERE	'BROWN COUNTY 115KV'	4	-0.01089	-0.50378	3
WERE	'CITY OF WINFIELD 69KV'	40	-0.51467	WERE	'CHANUTE 69KV'	56	-0.00608	-0.50859	3
WERE	'CITY OF WINFIELD 69KV'	40	-0.51467	WERE	'CITY OF BURLINGTON 69KV'	10	-0.0169	-0.49777	3
WERE	'CITY OF WINFIELD 69KV'	40	-0.51467	WERE	'CITY OF ERIE 69KV'	24	-0.00608	-0.50859	3
WERE	'CITY OF WINFIELD 69KV'	40	-0.51467	WERE	'CITY OF FREDONIA 69KV'	10	-0.00647	-0.5082	3
WERE	'CITY OF WINFIELD 69KV'	40	-0.51467	WERE	'CITY OF GIRARD 69KV'	5	-0.00378	-0.51089	3
WERE	'CITY OF WINFIELD 69KV'	40	-0.51467	WERE	'CITY OF IOLA 69KV'	24	-0.00576	-0.50891	3
WERE	'CITY OF WINFIELD 69KV'	40	-0.51467	WERE	'CITY OF MULVANE 69KV'	8	-0.0364	-0.47827	3
WERE	'CITY OF WINFIELD 69KV'	40	-0.51467	WERE	'CITY OF OSAGE CITY 115KV'	8	-0.01131	-0.50336	3
WERE	'CITY OF WINFIELD 69KV'	40	-0.51467	WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.01049	-0.50418	3
WERE	'CITY OF WINFIELD 69KV'	40	-0.51467	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	-0.0169	-0.49777	3
WERE	'CITY OF WINFIELD 69KV'	40	-0.51467	WERE	'EVANS ENERGY CENTER 138KV'	437	-0.02585	-0.48882	3
WERE	'CITY OF WINFIELD 69KV'	40	-0.51467	WERE	'GILL ENERGY CENTER 138KV'	155	-0.03777	-0.4769	3
WERE	'CITY OF WINFIELD 69KV'	40	-0.51467	WERE	'HOLTON 115KV'	16	-0.01042	-0.50425	3
WERE	'CITY OF WINFIELD 69KV'	40	-0.51467	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	-0.01008	-0.50459	3
WERE	'CITY OF WINFIELD 69KV'	40	-0.51467	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.01038	-0.50429	3
WERE	'CITY OF WINFIELD 69KV'	40	-0.51467	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.01036	-0.50431	3
WERE	'CITY OF WINFIELD 69KV'	40	-0.51467	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	-0.00992	-0.50475	3
WERE	'CITY OF WINFIELD 69KV'	40	-0.51467	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	-0.01013	-0.50454	3
WERE	'CITY OF WINFIELD 69KV'	40	-0.51467	WERE	'SMOKEY HILLS 34KV'	25	-0.00975	-0.50492	3
WERE	'CITY OF WINFIELD 69KV'	40	-0.51467	WERE	'SOUTH SENECA 115KV'	15	-0.0108	-0.50387	3
WERE	'CITY OF WINFIELD 69KV'	40	-0.51467	WERE	'ST JOHN 115KV'	3	-0.01193	-0.50274	3
WERE	'CITY OF WINFIELD 69KV'	40	-0.51467	WERE	'TECUMSEH ENERGY CENTER 115KV'	128	-0.01038	-0.50429	3
WERE	'CITY OF WINFIELD 69KV'	40	-0.51467	WERE	'WACO 138KV'	18	-0.03656	-0.47811	3
WERE	'CITY OF WINFIELD 69KV'	40	-0.51467	WERE	'CITY OF AUGUSTA 69KV'	25	-0.06313	-0.45154	4
WERE	'CITY OF WINFIELD 69KV'	40	-0.51467	WERE	'GILL ENERGY CENTER 69KV'	27	-0.05086	-0.46381	4
WERE	'CITY OF WELLINGTON 69KV'	2	-0.3685	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.01038	-0.35812	5
WERE	'CITY OF WELLINGTON 69KV'	2	-0.3685	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	-0.01006	-0.35844	5
WERE	'CITY OF WELLINGTON 69KV'	2	-0.3685	WERE	'BROWN COUNTY 115KV'	4	-0.01089	-0.35761	5
WERE	'CITY OF WELLINGTON 69KV'	2	-0.3685	WERE	'CHANUTE 69KV'	56	-0.00608	-0.36242	5
WERE	'CITY OF WELLINGTON 69KV'	2	-0.3685	WERE	'CITY OF AUGUSTA 69KV'	25	-0.06313	-0.30537	5
WERE	'CITY OF WELLINGTON 69KV'	2	-0.3685	WERE	'CITY OF BURLINGTON 69KV'	10	-0.0169	-0.3516	5
WERE	'CITY OF WELLINGTON 69KV'	2	-0.3685	WERE	'CITY OF ERIE 69KV'	24	-0.00608	-0.36242	5
WERE	'CITY OF WELLINGTON 69KV'	2	-0.3685	WERE	'CITY OF FREDONIA 69KV'	10	-0.00647	-0.36203	5
WERE	'CITY OF WELLINGTON 69KV'	2	-0.3685	WERE	'CITY OF GIRARD 69KV'	5	-0.00378	-0.36472	5
WERE	'CITY OF WELLINGTON 69KV'	2	-0.3685	WERE	'CITY OF IOLA 69KV'	24	-0.00576	-0.36274	5
WERE	'CITY OF WELLINGTON 69KV'	2	-0.3685	WERE	'CITY OF MULVANE 69KV'	8	-0.0364	-0.3321	5
WERE	'CITY OF WELLINGTON 69KV'	2	-0.3685	WERE	'CITY OF OSAGE CITY 115KV'	8	-0.01131	-0.35719	5
WERE	'CITY OF WELLINGTON 69KV'	2	-0.3685	WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.01049	-0.35801	5
WERE	'CITY OF WELLINGTON 69KV'	2	-0.3685	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	-0.0169	-0.3516	5
WERE	'CITY OF WELLINGTON 69KV'	2	-0.3685	WERE	'EVANS ENERGY CENTER 138KV'	437	-0.02585	-0.34265	5
WERE	'CITY OF WELLINGTON 69KV'	2	-0.3685	WERE	'GILL ENERGY CENTER 138KV'	155	-0.03777	-0.33073	5
WERE	'CITY OF WELLINGTON 69KV'	2	-0.3685	WERE	'GILL ENERGY CENTER 69KV'	27	-0.05086	-0.31764	5
WERE	'CITY OF WELLINGTON 69KV'	2	-0.3685	WERE	'HOLTON 115KV'	16	-0.01042	-0.35808	5
WERE	'CITY OF WELLINGTON 69KV'	2	-0.3685	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	-0.01008	-0.35842	5
WERE	'CITY OF WELLINGTON 69KV'	2	-0.3685	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.01038	-0.35812	5
WERE	'CITY OF WELLINGTON 69KV'	2	-0.3685	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.01036	-0.35814	5
WERE	'CITY OF WELLINGTON 69KV'	2	-0.3685	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	-0.00992	-0.35858	5
WERE	'CITY OF WELLINGTON 69KV'	2	-0.3685	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	-0.01013	-0.35837	5
WERE	'CITY OF WELLINGTON 69KV'	2	-0.3685	WERE	'SMOKEY HILLS 34KV'	25	-0.00975	-0.35875	5
WERE	'CITY OF WELLINGTON 69KV'	2	-0.3685	WERE	'SOUTH SENECA 115KV'	15	-0.0108	-0.3577	5
WERE	'CITY OF WELLINGTON 69KV'	2	-0.3685	WERE	'ST JOHN 115KV'	3	-0.01193	-0.35657	5
WERE	'CITY OF WELLINGTON 69KV'	2	-0.3685	WERE	'TECUMSEH ENERGY CENTER 115KV'	128	-0.01038	-0.35812	5
WERE	'CITY OF WELLINGTON 69KV'	2	-0.3685	WERE	'WACO 138KV'	18	-0.03656	-0.33194	5
WERE	'CITY OF WINFIELD 69KV'	40	-0.51467	WERE	'CITY OF WELLINGTON 69KV'	41	-0.3685	-0.14617	11
OMPA	'OMPA-KINGFISHER BOWMAN 69KV'	18	0.02005	OMPA	'OMPA-PONCA CITY 69KV'	157	0.07618	-0.05613	29
WERE	'GILL ENERGY CENTER 69KV'	73	-0.05086	WERE	'CHANUTE 69KV'	56	-0.00608	-0.04478	37
WERE	'GILL ENERGY CENTER 69KV'	73	-0.05086	WERE	'CITY OF ERIE 69KV'	24	-0.00608	-0.04478	37
WERE	'GILL ENERGY CENTER 69KV'	73	-0.05086	WERE	'CITY OF IOLA 69KV'	24	-0.00576	-0.0451	37
WERE	'GILL ENERGY CENTER 69KV'	73	-0.05086	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	-0.01006	-0.0408	40
WERE	'GILL ENERGY CENTER 69KV'	73	-0.05086	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	-0.01008	-0.04078	40
WERE	'GILL ENERGY CENTER 69KV'	73	-0.05086	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	-0.00992	-0.04094	40



Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'GILL ENERGY CENTER 69KV'	73	-0.05086	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	-0.01013	-0.04073	40
WERE	'GILL ENERGY CENTER 69KV'	73	-0.05086	WERE	'SMOKEY HILLS 34KV'	25	-0.00975	-0.04111	40
WERE	'GILL ENERGY CENTER 69KV'	73	-0.05086	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.01038	-0.04048	41
WERE	'GILL ENERGY CENTER 69KV'	73	-0.05086	WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.01049	-0.04037	41
WERE	'GILL ENERGY CENTER 69KV'	73	-0.05086	WERE	'HOLTON 115KV'	16	-0.01042	-0.04044	41
WERE	'GILL ENERGY CENTER 69KV'	73	-0.05086	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.01038	-0.04048	41
WERE	'GILL ENERGY CENTER 69KV'	73	-0.05086	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.01036	-0.0405	41
WERE	'GILL ENERGY CENTER 69KV'	73	-0.05086	WERE	'SOUTH SENECA 115KV'	15	-0.0108	-0.04006	41
WERE	'GILL ENERGY CENTER 69KV'	73	-0.05086	WERE	'TECUMSEH ENERGY CENTER 115KV'	128	-0.01038	-0.04048	41
OKGE	'MUSKOGEE 161KV'	31	0.0066	OKGE	'SOONER 138KV'	505	0.04218	-0.03558	46
OKGE	'MUSKOGEE 345KV'	20	0.00704	OKGE	'SOONER 138KV'	505	0.04218	-0.03514	47
WERE	'GILL ENERGY CENTER 69KV'	73	-0.05086	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	-0.0169	-0.03396	49
WERE	'GILL ENERGY CENTER 138KV'	18	-0.03777	WERE	'CITY OF IOLA 69KV'	24	-0.00576	-0.03201	51
WERE	'GILL ENERGY CENTER 138KV'	18	-0.03777	WERE	'CHANUTE 69KV'	56	-0.00608	-0.03169	52
WERE	'GILL ENERGY CENTER 138KV'	18	-0.03777	WERE	'CITY OF ERIE 69KV'	24	-0.00608	-0.03169	52

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: CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2, ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1, Potter - I  
 Limiting Facility: PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 2  
 Direction: From->To  
 Line Outage: PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1  
 Flowgate: 50652506282506525062814308SP  
 Date Redispatch Needed: Starting 2008 6/1 - 10/1 Until EOC  
 Season Flowgate Identified: 2008 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090310	0.4	1
1090315	0.3	1
1090454	0.1	1
1090456	0.2	1
1090487	0.5	1

Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
WEPL	'CIMARRON RIVER 115KV'	72	-0.12534	WEPL	'CLIFTON 115KV'	60	-0.00612	-0.11922	11
WEPL	'CIMARRON RIVER 115KV'	72	-0.12534	WEPL	'GREENLEAF 115KV'	6	-0.0057	-0.11964	11
WEPL	'CIMARRON RIVER 115KV'	72	-0.12534	WEPL	'A. M. MULLERGEN GENERATOR 115KV'	63	-0.01534	-0.11	12
WEPL	'CIMARRON RIVER 115KV'	72	-0.12534	WEPL	'BELOIT 115KV'	9	-0.00791	-0.11743	12
WEPL	'CIMARRON RIVER 115KV'	72	-0.12534	WEPL	'HARPER 138KV'	17	-0.00971	-0.11563	12
WEPL	'CIMARRON RIVER 115KV'	72	-0.12534	WEPL	'NORTH WEST GREAT BEND 115KV'	11	-0.01534	-0.11	12
WEPL	'CIMARRON RIVER 115KV'	72	-0.12534	WEPL	'PLAINVILLE 115KV'	5	-0.01258	-0.11276	12
WEPL	'CIMARRON RIVER 115KV'	72	-0.12534	WEPL	'RUSSELL 115KV'	25	-0.01341	-0.11193	12
WEPL	'CIMARRON RIVER 115KV'	72	-0.12534	WEPL	'GRAY COUNTY WIND FARM 115KV'	100	-0.0468	-0.07854	17
WEPL	'CIMARRON RIVER 115KV'	72	-0.12534	WEPL	'JUDSON LARGE 115KV'	105	-0.04715	-0.07819	17
SUNC	'CITY OF HUGOTON 69KV'	10	-0.09388	SUNC	'CITY OF GOODLAND 115KV'	8	-0.0193	-0.07458	18
SUNC	'CITY OF HUGOTON 69KV'	10	-0.09388	SUNC	'HOLCOMB 115KV'	272	-0.0316	-0.06228	22
SPS	'MADOX 115KV'	10	0.02987	SPS	'BLACKHAWK 115KV'	220	0.08187	-0.052	26
SPS	'MUSTG5 118.0 230KV'	150	0.02982	SPS	'BLACKHAWK 115KV'	220	0.08187	-0.05205	26
SPS	'TUCUMCARI 115KV'	15	0.03078	SPS	'BLACKHAWK 115KV'	220	0.08187	-0.05109	27
SPS	'MUSTG5 118.0 230KV'	150	0.02982	SPS	'HUBRCO2 69KV'	11	0.07196	-0.04214	32
SPS	'MUSTG5 118.0 230KV'	150	0.02982	SPS	'RIVERVIEW 69KV'	23	0.07294	-0.04312	32
SPS	'MUSTG5 118.0 230KV'	150	0.02982	SPS	'SIDRCH 69KV'	20	0.07196	-0.04214	32
SPS	'TUCUMCARI 115KV'	15	0.03078	SPS	'RIVERVIEW 69KV'	23	0.07294	-0.04216	32
SPS	'TUCUMCARI 115KV'	15	0.03078	SPS	'HUBRCO2 69KV'	11	0.07196	-0.04118	33
SPS	'TUCUMCARI 115KV'	15	0.03078	SPS	'SIDRCH 69KV'	20	0.07196	-0.04118	33

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: CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2, ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1, Potter - I  
 Limiting Facility: MOORE COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1  
 Direction: From->To  
 Line Outage: HERRNT3 - RB-SNEE3 115KV CKT 1  
 Flowgate: 50669506681506865069014407G  
 Date Redispatch Needed: Starting 2007 4/1 - 6/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Spring Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090454	0.9	9
1090487	8.5	9

Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'CAPROCK 115KV'	36	0.01595	-0.59065	16
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'CUNNINGHAM 115KV'	110	0.01504	-0.58974	16
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'CUNNINGHAM 230KV'	306	0.01509	-0.58979	16
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'HARRINGTON 230KV'	706	0.0118	-0.5865	16
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'JONES 230KV'	486	0.01295	-0.58765	16
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'LP-BRND2 69KV'	80	0.01284	-0.58754	16
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'MADOX 115KV'	118	0.01503	-0.58973	16
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'MUSTANG 115KV'	300	0.01486	-0.58956	16
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'MUSTG5 118.0 230KV'	160	0.01497	-0.58967	16
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'NICHOLS 230KV'	53	0.01071	-0.58541	16
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'PLANTX 115KV'	205	0.01552	-0.59022	16
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'PLANTX 230KV'	189	0.01652	-0.59122	16
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'SAN JUAN 230KV'	54	0.01578	-0.59048	16
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'TOLK 230KV'	1020	0.01601	-0.59071	16
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'WILWIND 230KV'	72	0.02282	-0.59752	16
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'BLACKHAWK 115KV'	220	-0.02371	-0.55099	17
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'CZ 69KV'	35	-0.01303	-0.56167	17

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'NICHOLS 115KV'	106	-0.02085	-0.55385	17
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'SIDRCH 69KV'	14	-0.02071	-0.55399	17
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'STEER WATER 115KV'	36	-0.01704	-0.55766	17
SPS	'NICHOLS 115KV'	107	-0.02085	SPS	'WILWIND 230KV'	72	0.02282	-0.04367	216
SPS	'NICHOLS 115KV'	107	-0.02085	SPS	'PLANTX 230KV'	189	0.01652	-0.03737	252
SPS	'NICHOLS 115KV'	107	-0.02085	SPS	'TOLK 230KV'	1020	0.01601	-0.03686	256
SPS	'NICHOLS 115KV'	107	-0.02085	SPS	'PLANTX 115KV'	205	0.01552	-0.03637	259
SPS	'NICHOLS 115KV'	107	-0.02085	SPS	'CUNNINGHAM 230KV'	306	0.01509	-0.03594	262
SPS	'NICHOLS 115KV'	107	-0.02085	SPS	'CUNNINGHAM 115KV'	110	0.01504	-0.03589	263
SPS	'NICHOLS 115KV'	107	-0.02085	SPS	'MADDOX 115KV'	118	0.01503	-0.03588	263
SPS	'NICHOLS 115KV'	107	-0.02085	SPS	'MUSTG5 118.0 230KV'	160	0.01497	-0.03582	263
SPS	'NICHOLS 115KV'	107	-0.02085	SPS	'MUSTANG 115KV'	300	0.01486	-0.03571	264
SPS	'NICHOLS 115KV'	107	-0.02085	SPS	'JONES 230KV'	486	0.01295	-0.0338	279
SPS	'NICHOLS 115KV'	107	-0.02085	SPS	'HARRINGTON 230KV'	706	0.0118	-0.03265	289

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: CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2, ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1, Potter - I  
 Limiting Facility: MOORE COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1  
 Direction: From->To  
 Line Outage: HERRNT3 - RIVERVIEW INTERCHANGE 115KV CKT 1  
 Flowgate: 50669506681506865069411407G  
 Date Redispatch Needed: Starting 2007 4/1 - 6/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Spring Peak

Reservation	Relief Amount	Aggregate Relief Amount			Maximum Increment (MW)	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
1090454		0.9							
1090487		8.5							
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'CAPROCK 115KV'	36	0.01595	-0.59065	16
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'CUNNINGHAM 115KV'	110	0.01504	-0.58974	16
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'CUNNINGHAM 230KV'	306	0.01509	-0.58979	16
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'HARRINGTON 230KV'	706	0.0118	-0.5865	16
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'JONES 230KV'	486	0.01295	-0.58765	16
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'LP-BRND2 69KV'	80	0.01284	-0.58754	16
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'MADDOX 115KV'	118	0.01503	-0.58973	16
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'MUSTANG 115KV'	300	0.01486	-0.58956	16
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'MUSTG5 118.0 230KV'	210	0.01497	-0.58967	16
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'PLANTX 115KV'	205	0.01552	-0.59022	16
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'PLANTX 230KV'	189	0.01652	-0.59122	16
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'SAN JUAN 230KV'	54	0.01578	-0.59048	16
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'TOLK 230KV'	1023	0.01601	-0.59071	16
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'WILWIND 230KV'	72	0.02282	-0.59752	16
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'BLACKHAWK 115KV'	220	-0.02371	-0.55099	17
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'CZ 69KV'	35	-0.01303	-0.56167	17
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'NICHOLS 115KV'	84	-0.02085	-0.55385	17
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'SIDRCH 69KV'	14	-0.02071	-0.55399	17
SPS	'MOORE COUNTY 115KV'	48	-0.5747	SPS	'STEER WATER 115KV'	36	-0.01704	-0.55766	17
WEPL	'CIMARRON RIVER 115KV'	72	-0.05569	WEPL	'SPEARVILLE WIND 34KV'	100	-0.00674	-0.04895	193
SPS	'NICHOLS 115KV'	129	-0.02085	SPS	'WILWIND 230KV'	72	0.02282	-0.04367	216
SPS	'NICHOLS 115KV'	129	-0.02085	SPS	'PLANTX 230KV'	189	0.01652	-0.03737	252
SPS	'NICHOLS 115KV'	129	-0.02085	SPS	'TOLK 230KV'	1023	0.01601	-0.03686	256
SPS	'NICHOLS 115KV'	129	-0.02085	SPS	'PLANTX 115KV'	205	0.01552	-0.03637	259
SPS	'NICHOLS 115KV'	129	-0.02085	SPS	'CUNNINGHAM 230KV'	306	0.01509	-0.03594	262
SPS	'NICHOLS 115KV'	129	-0.02085	SPS	'CUNNINGHAM 115KV'	110	0.01504	-0.03589	263
SPS	'NICHOLS 115KV'	129	-0.02085	SPS	'MADDOX 115KV'	118	0.01503	-0.03588	263
SPS	'NICHOLS 115KV'	129	-0.02085	SPS	'MUSTG5 118.0 230KV'	210	0.01497	-0.03582	263
SPS	'NICHOLS 115KV'	129	-0.02085	SPS	'MUSTANG 115KV'	300	0.01486	-0.03571	264
SPS	'NICHOLS 115KV'	129	-0.02085	SPS	'JONES 230KV'	486	0.01295	-0.0338	279
SPS	'NICHOLS 115KV'	129	-0.02085	SPS	'HARRINGTON 230KV'	706	0.0118	-0.03265	289

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: CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2, ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1, Potter - I  
 Limiting Facility: MOORE COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1  
 Direction: From->To  
 Line Outage: HERRNT3 - RIVERVIEW INTERCHANGE 115KV CKT 1  
 Flowgate: 50669506681506865069411408SP  
 Date Redispatch Needed: Starting 2008 6/1 - 10/1 Until EOC  
 Season Flowgate Identified: 2008 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount			Maximum Increment (MW)	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
1090310		0.2							
1090315		0.5							
1090454		0.1							
1090456		0.1							
1090487		0.5							
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
WEPL	'CIMARRON RIVER 115KV'	72	-0.05403	WEPL	'BELOIT 115KV'	9	-0.0021	-0.05193	27
WEPL	'CIMARRON RIVER 115KV'	72	-0.05403	WEPL	'CLIFTON 115KV'	59	-0.00162	-0.05241	27
WEPL	'CIMARRON RIVER 115KV'	72	-0.05403	WEPL	'HARPER 138KV'	17	-0.00347	-0.05056	28
WEPL	'CIMARRON RIVER 115KV'	72	-0.05403	WEPL	'RUSSELL 115KV'	25	-0.00363	-0.0504	28
WEPL	'CIMARRON RIVER 115KV'	72	-0.05403	WEPL	'A. M. MULLERGEN GENERATOR 115KV'	63	-0.00419	-0.04984	29
WEPL	'CIMARRON RIVER 115KV'	72	-0.05403	WEPL	'NORTH WEST GREAT BEND 115KV'	11	-0.00419	-0.04984	29
WEPL	'CIMARRON RIVER 115KV'	72	-0.05403	WEPL	'SPEARVILLE WIND 34KV'	100	-0.00633	-0.0477	30
SPS	'RIVERVIEW 69KV'	23	-0.02167	SPS	'WILWIND 230KV'	16	0.02265	-0.04432	32

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

SPS	'NICHOLS 115KV'	66	-0.02107	SPS	'WILWIND 230KV'	16	0.02265	-0.04372	33
SPS	'RIVERVIEW 69KV'	23	-0.02167	SPS	'PLANTX 230KV'	189	0.01636	-0.03803	37
SPS	'NICHOLS 115KV'	66	-0.02107	SPS	'PLANTX 230KV'	189	0.01636	-0.03743	38
SPS	'NICHOLS 115KV'	66	-0.02107	SPS	'TOLK 230KV'	1042	0.01585	-0.03692	38
SPS	'RIVERVIEW 69KV'	23	-0.02167	SPS	'PLANTX 115KV'	238	0.01535	-0.03702	38
SPS	'RIVERVIEW 69KV'	23	-0.02167	SPS	'TOLK 230KV'	1042	0.01585	-0.03752	38
WEPL	'CIMARRON RIVER 115KV'	72	-0.05403	WEPL	'GRAY COUNTY WIND FARM 115KV'	36	-0.01764	-0.03639	39
WEPL	'CIMARRON RIVER 115KV'	72	-0.05403	WEPL	'JUDSON LARGE 115KV'	111	-0.01781	-0.03622	39
SPS	'NICHOLS 115KV'	66	-0.02107	SPS	'CUNNINGHAM 230KV'	306	0.01492	-0.03559	39
SPS	'NICHOLS 115KV'	66	-0.02107	SPS	'PLANTX 115KV'	238	0.01535	-0.03642	39
SPS	'RIVERVIEW 69KV'	23	-0.02167	SPS	'CUNNINGHAM 115KV'	110	0.01488	-0.03655	39
SPS	'RIVERVIEW 69KV'	23	-0.02167	SPS	'CUNNINGHAM 115KV'	71	0.01488	-0.03655	39
SPS	'RIVERVIEW 69KV'	23	-0.02167	SPS	'CUNNINGHAM 230KV'	306	0.01492	-0.03659	39
SPS	'RIVERVIEW 69KV'	23	-0.02167	SPS	'MADDOX 115KV'	183	0.01487	-0.03654	39
SPS	'RIVERVIEW 69KV'	23	-0.02167	SPS	'MUSTANG 115KV'	300	0.01469	-0.03636	39
SPS	'RIVERVIEW 69KV'	23	-0.02167	SPS	'MUSTG5 118.0 230KV'	360	0.01481	-0.03648	39
SPS	'NICHOLS 115KV'	66	-0.02107	SPS	'CUNNINGHAM 115KV'	110	0.01488	-0.03595	40
SPS	'NICHOLS 115KV'	66	-0.02107	SPS	'CUNNINGHAM 115KV'	71	0.01488	-0.03595	40
SPS	'NICHOLS 115KV'	66	-0.02107	SPS	'MADDOX 115KV'	183	0.01487	-0.03594	40
SPS	'NICHOLS 115KV'	66	-0.02107	SPS	'MUSTANG 115KV'	300	0.01469	-0.03576	40
SPS	'NICHOLS 115KV'	66	-0.02107	SPS	'MUSTG5 118.0 230KV'	360	0.01481	-0.03588	40
SPS	'RIVERVIEW 69KV'	23	-0.02167	SPS	'JONES 230KV'	486	0.01278	-0.03445	41
SPS	'RIVERVIEW 69KV'	23	-0.02167	SPS	'LP-BRND2 69KV'	80	0.01268	-0.03435	41
SPS	'NICHOLS 115KV'	66	-0.02107	SPS	'JONES 230KV'	486	0.01278	-0.03385	42
SPS	'NICHOLS 115KV'	66	-0.02107	SPS	'LP-BRND2 69KV'	80	0.01268	-0.03375	42
SPS	'NICHOLS 115KV'	66	-0.02107	SPS	'HARRINGTON 230KV'	1066	0.01161	-0.03268	43
SPS	'RIVERVIEW 69KV'	23	-0.02167	SPS	'HARRINGTON 230KV'	1066	0.01161	-0.03328	43
SPS	'RIVERVIEW 69KV'	23	-0.02167	SPS	'NICHOLS 230KV'	147	0.01052	-0.03219	44
SPS	'NICHOLS 115KV'	66	-0.02107	SPS	'NICHOLS 230KV'	147	0.01052	-0.03159	45

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: CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2, ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1, Potter - I  
 Limiting Facility: NICHOLS STATION 230/115KV TRANSFORMER CKT 2  
 Direction: From->To  
 Line Outage: NICHOLS STATION 230/115KV TRANSFORMER CKT 1  
 Flowgate: 50914509152509155091411408SP  
 Date Redispatch Needed: Starting 2008 6/1 - 10/1 Until EOC  
 Season Flowgate Identified: 2008 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090270	0.4	3
1090271	0.4	3
1090315	0.6	3
1090454	0.7	3
1090456	0.1	3
1090767	0.4	3
1090789	0.2	3

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
SPS	'NICHOLS 115KV'	66	-0.25063	SPS	'HARRINGTON 230KV'	1066	0.04045	-0.29108	9
SPS	'NICHOLS 115KV'	66	-0.25063	SPS	'NICHOLS 230KV'	147	0.0453	-0.29593	9
SPS	'NICHOLS 115KV'	66	-0.25063	SPS	'CAPROCK 115KV'	8	0.00003	-0.25066	11
SPS	'NICHOLS 115KV'	66	-0.25063	SPS	'CUNNINGHAM 115KV'	110	0.00113	-0.25176	11
SPS	'NICHOLS 115KV'	66	-0.25063	SPS	'CUNNINGHAM 115KV'	71	0.00113	-0.25176	11
SPS	'NICHOLS 115KV'	66	-0.25063	SPS	'CUNNINGHAM 230KV'	306	0.00116	-0.25179	11
SPS	'NICHOLS 115KV'	66	-0.25063	SPS	'JONES 230KV'	486	-0.00006	-0.25057	11
SPS	'NICHOLS 115KV'	66	-0.25063	SPS	'LP-BRND2 69KV'	80	-0.00012	-0.25051	11
SPS	'NICHOLS 115KV'	66	-0.25063	SPS	'MADDOX 115KV'	183	0.00113	-0.25176	11
SPS	'NICHOLS 115KV'	66	-0.25063	SPS	'MUSTANG 115KV'	300	0.00105	-0.25168	11
SPS	'NICHOLS 115KV'	66	-0.25063	SPS	'MUSTG5 118.0 230KV'	360	0.00114	-0.25177	11
SPS	'NICHOLS 115KV'	66	-0.25063	SPS	'PLANTX 115KV'	238	0.00011	-0.25074	11
SPS	'NICHOLS 115KV'	66	-0.25063	SPS	'PLANTX 230KV'	189	0.00233	-0.25296	11
SPS	'NICHOLS 115KV'	66	-0.25063	SPS	'SAN JUAN 230KV'	12	0.00116	-0.25179	11
SPS	'NICHOLS 115KV'	66	-0.25063	SPS	'TOLK 230KV'	1042	0.00183	-0.25246	11
SPS	'NICHOLS 115KV'	66	-0.25063	SPS	'WILWIND 230KV'	16	0.00668	-0.25731	11
SPS	'NICHOLS 115KV'	66	-0.25063	SPS	'BLACKHAWK 115KV'	220	-0.04889	-0.20174	14
SPS	'NICHOLS 115KV'	66	-0.25063	SPS	'HUBRCO2 69KV'	11	-0.05429	-0.19634	14
SPS	'NICHOLS 115KV'	66	-0.25063	SPS	'MOORE COUNTY 115KV'	48	-0.05468	-0.19595	14
SPS	'NICHOLS 115KV'	66	-0.25063	SPS	'SIDRCH 69KV'	20	-0.05429	-0.19634	14
SPS	'NICHOLS 115KV'	66	-0.25063	SPS	'CZ 69KV'	39	-0.11779	-0.13284	21
SPS	'RIVERVIEW 69KV'	23	-0.05474	SPS	'NICHOLS 230KV'	147	0.0453	-0.10004	27
SPS	'RIVERVIEW 69KV'	23	-0.05474	SPS	'HARRINGTON 230KV'	1066	0.04045	-0.09519	29
SPS	'RIVERVIEW 69KV'	23	-0.05474	SPS	'WILWIND 230KV'	16	0.00668	-0.06142	44
SPS	'RIVERVIEW 69KV'	23	-0.05474	SPS	'PLANTX 230KV'	189	0.00233	-0.05707	48
SPS	'RIVERVIEW 69KV'	23	-0.05474	SPS	'TOLK 230KV'	1042	0.00183	-0.05657	48
SPS	'RIVERVIEW 69KV'	23	-0.05474	SPS	'CUNNINGHAM 115KV'	110	0.00113	-0.05587	49
SPS	'RIVERVIEW 69KV'	23	-0.05474	SPS	'CUNNINGHAM 115KV'	71	0.00113	-0.05587	49
SPS	'RIVERVIEW 69KV'	23	-0.05474	SPS	'CUNNINGHAM 230KV'	306	0.00116	-0.0559	49
SPS	'RIVERVIEW 69KV'	23	-0.05474	SPS	'MADDOX 115KV'	183	0.00113	-0.05587	49
SPS	'RIVERVIEW 69KV'	23	-0.05474	SPS	'MUSTANG 115KV'	300	0.00105	-0.05579	49
SPS	'RIVERVIEW 69KV'	23	-0.05474	SPS	'MUSTG5 118.0 230KV'	360	0.00114	-0.05588	49
SPS	'RIVERVIEW 69KV'	23	-0.05474	SPS	'JONES 230KV'	486	-0.00006	-0.05468	50
SPS	'RIVERVIEW 69KV'	23	-0.05474	SPS	'LP-BRND2 69KV'	80	-0.00012	-0.05462	50
SPS	'RIVERVIEW 69KV'	23	-0.05474	SPS	'PLANTX 115KV'	238	0.00011	-0.05485	50
SPS	'Lubbock Power and Light'	152	-0.00012	SPS	'NICHOLS 230KV'	147	0.0453	-0.04542	60
SPS	'Lubbock Power and Light'	152	-0.00012	SPS	'HARRINGTON 230KV'	1066	0.04045	-0.04057	67

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

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

Upgrade: CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2, ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1, Potter - I  
 Limiting Facility: RANDALL COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1  
 Direction: From->To  
 Line Outage: AMARILLO S INTERCHANGE - NICHOLS STATION 230KV CKT 1  
 Flowgate: 51020510211510415091514411SP  
 Date Redispatch Needed: 6/1 - 10/1 Until EOC of Upgrade Starting 2009  
 Season Flowgate Identified: 2011 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount								
1090298	0.1	2								
1090301	0.2	2								
1090322	0.2	2								
1090680	0.7	2								
1090695	0.4	2								
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)	
SPS	'Lubbock Power and Light'	143	-0.05974	SPS	'HARRINGTON 230KV'	1066	0.06914	-0.12888	12	
SPS	'CARLSBAD 69KV'	18	-0.04811	SPS	'HARRINGTON 230KV'	1066	0.06914	-0.11725	13	
SPS	'Lubbock Power and Light'	143	-0.05974	SPS	'NICHOLS 230KV'	147	0.06613	-0.12587	13	
SPS	'MADOX 115KV'	10	-0.04936	SPS	'HARRINGTON 230KV'	1066	0.06914	-0.1185	13	
SPS	'MUSTG5 118.0 230KV'	150	-0.0496	SPS	'HARRINGTON 230KV'	1066	0.06914	-0.11874	13	
SPS	'PLANTX 115KV'	8	-0.05133	SPS	'HARRINGTON 230KV'	1066	0.06914	-0.12047	13	
SPS	'PLANTX 115KV'	8	-0.05133	SPS	'NICHOLS 230KV'	147	0.06613	-0.11746	13	
SPS	'CARLSBAD 69KV'	18	-0.04811	SPS	'NICHOLS 230KV'	147	0.06613	-0.11424	14	
SPS	'MADOX 115KV'	10	-0.04936	SPS	'NICHOLS 230KV'	147	0.06613	-0.11549	14	
SPS	'MUSTG5 118.0 230KV'	150	-0.0496	SPS	'NICHOLS 230KV'	147	0.06613	-0.11573	14	
SPS	'NICHOLS 115KV'	66	-0.04224	SPS	'HARRINGTON 230KV'	1066	0.06914	-0.11138	14	
SPS	'TUCUMCARI 115KV'	15	-0.04714	SPS	'HARRINGTON 230KV'	1066	0.06914	-0.11628	14	
SPS	'TUCUMCARI 115KV'	15	-0.04714	SPS	'NICHOLS 230KV'	147	0.06613	-0.11327	14	
SPS	'NICHOLS 115KV'	66	-0.04224	SPS	'NICHOLS 230KV'	147	0.06613	-0.10837	15	
SPS	'Lubbock Power and Light'	143	-0.05974	SPS	'BLACKHAWK 115KV'	220	0.03036	-0.0901	17	
SPS	'Lubbock Power and Light'	143	-0.05974	SPS	'HUBRCO2 69KV'	11	0.02831	-0.08805	18	
SPS	'Lubbock Power and Light'	143	-0.05974	SPS	'SIDRCH 69KV'	20	0.02831	-0.08805	18	
SPS	'Lubbock Power and Light'	143	-0.05974	SPS	'MOORE COUNTY 115KV'	48	0.02283	-0.08257	19	
SPS	'PLANTX 115KV'	8	-0.05133	SPS	'BLACKHAWK 115KV'	220	0.03036	-0.08169	19	
SPS	'CARLSBAD 69KV'	18	-0.04811	SPS	'BLACKHAWK 115KV'	220	0.03036	-0.07847	20	
SPS	'MADOX 115KV'	10	-0.04936	SPS	'BLACKHAWK 115KV'	220	0.03036	-0.07972	20	
SPS	'MADOX 115KV'	10	-0.04936	SPS	'HUBRCO2 69KV'	11	0.02831	-0.07767	20	
SPS	'MADOX 115KV'	10	-0.04936	SPS	'SIDRCH 69KV'	20	0.02831	-0.07767	20	
SPS	'MUSTG5 118.0 230KV'	150	-0.0496	SPS	'BLACKHAWK 115KV'	220	0.03036	-0.07996	20	
SPS	'MUSTG5 118.0 230KV'	150	-0.0496	SPS	'HUBRCO2 69KV'	11	0.02831	-0.07791	20	
SPS	'MUSTG5 118.0 230KV'	150	-0.0496	SPS	'SIDRCH 69KV'	20	0.02831	-0.07791	20	
SPS	'PLANTX 115KV'	8	-0.05133	SPS	'HUBRCO2 69KV'	11	0.02831	-0.07964	20	
SPS	'PLANTX 115KV'	8	-0.05133	SPS	'SIDRCH 69KV'	20	0.02831	-0.07964	20	
SPS	'TUCUMCARI 115KV'	15	-0.04714	SPS	'BLACKHAWK 115KV'	220	0.03036	-0.0775	20	
SPS	'CARLSBAD 69KV'	18	-0.04811	SPS	'HUBRCO2 69KV'	11	0.02831	-0.07642	21	
SPS	'CARLSBAD 69KV'	18	-0.04811	SPS	'SIDRCH 69KV'	20	0.02831	-0.07642	21	
SPS	'PLANTX 115KV'	8	-0.05133	SPS	'MOORE COUNTY 115KV'	48	0.02283	-0.07416	21	
SPS	'TUCUMCARI 115KV'	15	-0.04714	SPS	'HUBRCO2 69KV'	11	0.02831	-0.07545	21	
SPS	'TUCUMCARI 115KV'	15	-0.04714	SPS	'SIDRCH 69KV'	20	0.02831	-0.07545	21	
SPS	'CARLSBAD 69KV'	18	-0.04811	SPS	'MOORE COUNTY 115KV'	48	0.02283	-0.07094	22	
SPS	'MADOX 115KV'	10	-0.04936	SPS	'MOORE COUNTY 115KV'	48	0.02283	-0.07219	22	
SPS	'MUSTG5 118.0 230KV'	150	-0.0496	SPS	'MOORE COUNTY 115KV'	48	0.02283	-0.07243	22	
SPS	'NICHOLS 115KV'	66	-0.04224	SPS	'BLACKHAWK 115KV'	220	0.03036	-0.0726	22	
SPS	'NICHOLS 115KV'	66	-0.04224	SPS	'HUBRCO2 69KV'	11	0.02831	-0.07055	22	
SPS	'NICHOLS 115KV'	66	-0.04224	SPS	'SIDRCH 69KV'	20	0.02831	-0.07055	22	
SPS	'TUCUMCARI 115KV'	15	-0.04714	SPS	'MOORE COUNTY 115KV'	48	0.02283	-0.06997	23	
SPS	'NICHOLS 115KV'	66	-0.04224	SPS	'MOORE COUNTY 115KV'	48	0.02283	-0.06507	24	
SPS	'Lubbock Power and Light'	143	-0.05974	SPS	'CZ 69KV'	39	0.00194	-0.06168	26	
SPS	'Lubbock Power and Light'	143	-0.05974	SPS	'WILWIND 230KV'	16	-0.00251	-0.05723	28	
SPS	'CARLSBAD 69KV'	18	-0.04811	SPS	'CZ 69KV'	39	0.00194	-0.05005	31	
SPS	'MUSTG5 118.0 230KV'	150	-0.0496	SPS	'CZ 69KV'	39	0.00194	-0.05154	31	
SPS	'TUCUMCARI 115KV'	15	-0.04714	SPS	'CZ 69KV'	39	0.00194	-0.04908	32	
SPS	'MUSTG5 118.0 230KV'	150	-0.0496	SPS	'WILWIND 230KV'	16	-0.00251	-0.04709	33	
SPS	'CARLSBAD 69KV'	18	-0.04811	SPS	'WILWIND 230KV'	16	-0.00251	-0.0456	35	
SPS	'TUCUMCARI 115KV'	15	-0.04714	SPS	'WILWIND 230KV'	16	-0.00251	-0.04463	35	
SPS	'NICHOLS 115KV'	66	-0.04224	SPS	'CZ 69KV'	39	0.00194	-0.04418	36	
SPS	'RIVERVIEW 69KV'	23	0.02812	SPS	'HARRINGTON 230KV'	1066	0.06914	-0.04102	38	
SPS	'NICHOLS 115KV'	66	-0.04224	SPS	'WILWIND 230KV'	16	-0.00251	-0.03973	40	
SPS	'RIVERVIEW 69KV'	23	0.02812	SPS	'NICHOLS 230KV'	147	0.06613	-0.03801	41	

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: CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2, ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1, Potter - I  
 Limiting Facility: CANYON EAST - OSAGE SWITCHING STATION 115KV CKT 1  
 Direction: To->From  
 Line Outage: BUSHLAND INTERCHANGE - DEAF SMITH INTERCHANGE 230KV CKT 1  
 Flowgate: 5108051014150993511112408SP  
 Date Redispatch Needed: Starting 2008 6/1 - 10/1 Until EOC  
 Season Flowgate Identified: 2008 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount								
1090298	0.6	10								
1090301	2.3	10								
1090680	4.6	10								
1090695	2.7	10								
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)	
SPS	'PLANTX 115KV'	48	-0.10426	SPS	'NICHOLS 115KV'	147	0.05107	-0.15533	65	
SPS	'PLANTX 115KV'	48	-0.10426	SPS	'BLACKHAWK 115KV'	220	0.04241	-0.14667	69	

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

SPS	'PLANTX 115KV'	48	-0.10426	SPS	'CZ 69KV'	39	0.0425	-0.14676	69
SPS	'PLANTX 115KV'	48	-0.10426	SPS	'HARRINGTON 230KV'	1066	0.04079	-0.14505	70
SPS	'PLANTX 115KV'	48	-0.10426	SPS	'MOORE COUNTY 115KV'	48	0.03981	-0.14407	70
SPS	'PLANTX 115KV'	48	-0.10426	SPS	'NICHOLS 230KV'	147	0.04081	-0.14507	70
SPS	'MADOX 115KV'	61	-0.08927	SPS	'NICHOLS 115KV'	147	0.05107	-0.14034	72
SPS	'MADOX 115KV'	61	-0.08927	SPS	'BLACKHAWK 115KV'	220	0.04241	-0.13168	77
SPS	'MADOX 115KV'	61	-0.08927	SPS	'CZ 69KV'	39	0.0425	-0.13177	77
SPS	'MADOX 115KV'	61	-0.08927	SPS	'HARRINGTON 230KV'	1066	0.04079	-0.13006	78
SPS	'MADOX 115KV'	61	-0.08927	SPS	'NICHOLS 230KV'	147	0.04081	-0.13008	78
SPS	'MADOX 115KV'	61	-0.08927	SPS	'MOORE COUNTY 115KV'	48	0.03981	-0.12908	79
SPS	'Lubbock Power and Light'	152	-0.06585	SPS	'NICHOLS 115KV'	147	0.05107	-0.11692	87
SPS	'Lubbock Power and Light'	152	-0.06585	SPS	'BLACKHAWK 115KV'	220	0.04241	-0.10826	94
SPS	'Lubbock Power and Light'	152	-0.06585	SPS	'CZ 69KV'	39	0.0425	-0.10835	94
SPS	'Lubbock Power and Light'	152	-0.06585	SPS	'HARRINGTON 230KV'	1066	0.04079	-0.10664	95
SPS	'Lubbock Power and Light'	152	-0.06585	SPS	'NICHOLS 230KV'	147	0.04081	-0.10666	95
SPS	'Lubbock Power and Light'	152	-0.06585	SPS	'MOORE COUNTY 115KV'	48	0.03981	-0.10566	96

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: CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2, ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1, Potter - I  
 Limiting Facility: CANYON EAST - OSAGE SWITCHING STATION 115KV CKT 1  
 Direction: To->From  
 Line Outage: BUSHLAND INTERCHANGE - DEAF SMITH INTERCHANGE 230KV CKT 1  
 Flowgate: 51080510141509935111113407SP  
 Date Redispatch Needed: 6/1/07 - 10/1/07  
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090301		0.3
1090680		0.5
1090695		0.3

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
SPS	'TUCUMCARI 115KV'	15	-0.12644	SPS	'NICHOLS 115KV'	147	0.05132	-0.17776	6
SPS	'PLANTX 115KV'	48	-0.10442	SPS	'NICHOLS 115KV'	147	0.05132	-0.15574	7
SPS	'PLANTX 115KV'	48	-0.10442	SPS	'STEER WATER 115KV'	8	0.04719	-0.15161	7
SPS	'TUCUMCARI 115KV'	15	-0.12644	SPS	'BLACKHAWK 115KV'	220	0.04265	-0.16909	7
SPS	'TUCUMCARI 115KV'	15	-0.12644	SPS	'CZ 69KV'	39	0.04285	-0.16929	7
SPS	'TUCUMCARI 115KV'	15	-0.12644	SPS	'HARRINGTON 230KV'	1066	0.04102	-0.16746	7
SPS	'TUCUMCARI 115KV'	15	-0.12644	SPS	'HUBRCO2 69KV'	11	0.04292	-0.16936	7
SPS	'TUCUMCARI 115KV'	15	-0.12644	SPS	'MOORE COUNTY 115KV'	48	0.04003	-0.16647	7
SPS	'TUCUMCARI 115KV'	15	-0.12644	SPS	'NICHOLS 230KV'	117	0.04104	-0.16748	7
SPS	'TUCUMCARI 115KV'	15	-0.12644	SPS	'SIDRCH 69KV'	20	0.04292	-0.16936	7
SPS	'TUCUMCARI 115KV'	15	-0.12644	SPS	'STEER WATER 115KV'	8	0.04719	-0.17363	7
SPS	'TUCUMCARI 115KV'	15	-0.12644	SPS	'WILWIND 230KV'	16	0.03894	-0.16538	7
SPS	'CARLSBAD 69KV'	18	-0.09303	SPS	'BLACKHAWK 115KV'	220	0.04265	-0.13568	8
SPS	'CARLSBAD 69KV'	18	-0.09303	SPS	'CZ 69KV'	39	0.04285	-0.13588	8
SPS	'CARLSBAD 69KV'	18	-0.09303	SPS	'HARRINGTON 230KV'	1066	0.04102	-0.13405	8
SPS	'CARLSBAD 69KV'	18	-0.09303	SPS	'HUBRCO2 69KV'	11	0.04292	-0.13595	8
SPS	'CARLSBAD 69KV'	18	-0.09303	SPS	'NICHOLS 115KV'	147	0.05132	-0.14435	8
SPS	'CARLSBAD 69KV'	18	-0.09303	SPS	'NICHOLS 230KV'	117	0.04104	-0.13407	8
SPS	'CARLSBAD 69KV'	18	-0.09303	SPS	'SIDRCH 69KV'	20	0.04292	-0.13595	8
SPS	'CARLSBAD 69KV'	18	-0.09303	SPS	'STEER WATER 115KV'	8	0.04719	-0.14022	8
SPS	'CUNNINGHAM 115KV'	71	-0.08947	SPS	'NICHOLS 115KV'	147	0.05132	-0.14079	8
SPS	'CUNNINGHAM 115KV'	71	-0.08947	SPS	'STEER WATER 115KV'	8	0.04719	-0.13666	8
SPS	'MADOX 115KV'	75	-0.08935	SPS	'NICHOLS 115KV'	147	0.05132	-0.14067	8
SPS	'MADOX 115KV'	75	-0.08935	SPS	'STEER WATER 115KV'	8	0.04719	-0.13654	8
SPS	'PLANTX 115KV'	48	-0.10442	SPS	'BLACKHAWK 115KV'	220	0.04265	-0.14707	8
SPS	'PLANTX 115KV'	48	-0.10442	SPS	'CZ 69KV'	39	0.04285	-0.14727	8
SPS	'PLANTX 115KV'	48	-0.10442	SPS	'HARRINGTON 230KV'	1066	0.04102	-0.14544	8
SPS	'PLANTX 115KV'	48	-0.10442	SPS	'HUBRCO2 69KV'	11	0.04292	-0.14734	8
SPS	'PLANTX 115KV'	48	-0.10442	SPS	'MOORE COUNTY 115KV'	48	0.04003	-0.14445	8
SPS	'PLANTX 115KV'	48	-0.10442	SPS	'NICHOLS 230KV'	117	0.04104	-0.14546	8
SPS	'PLANTX 115KV'	48	-0.10442	SPS	'SIDRCH 69KV'	20	0.04292	-0.14734	8
SPS	'PLANTX 115KV'	48	-0.10442	SPS	'WILWIND 230KV'	16	0.03894	-0.14336	8
SPS	'CARLSBAD 69KV'	18	-0.09303	SPS	'MOORE COUNTY 115KV'	48	0.04003	-0.13306	9
SPS	'CARLSBAD 69KV'	18	-0.09303	SPS	'WILWIND 230KV'	16	0.03894	-0.13197	9
SPS	'CUNNINGHAM 115KV'	71	-0.08947	SPS	'BLACKHAWK 115KV'	220	0.04265	-0.13212	9
SPS	'CUNNINGHAM 115KV'	71	-0.08947	SPS	'CZ 69KV'	39	0.04285	-0.13232	9
SPS	'CUNNINGHAM 115KV'	71	-0.08947	SPS	'HARRINGTON 230KV'	1066	0.04102	-0.13049	9
SPS	'CUNNINGHAM 115KV'	71	-0.08947	SPS	'HUBRCO2 69KV'	11	0.04292	-0.13239	9
SPS	'CUNNINGHAM 115KV'	71	-0.08947	SPS	'MOORE COUNTY 115KV'	48	0.04003	-0.12951	9
SPS	'CUNNINGHAM 115KV'	71	-0.08947	SPS	'NICHOLS 230KV'	117	0.04104	-0.13051	9
SPS	'CUNNINGHAM 115KV'	71	-0.08947	SPS	'SIDRCH 69KV'	20	0.04292	-0.13239	9
SPS	'CUNNINGHAM 115KV'	71	-0.08947	SPS	'WILWIND 230KV'	16	0.03894	-0.12841	9
SPS	'MADOX 115KV'	75	-0.08935	SPS	'BLACKHAWK 115KV'	220	0.04265	-0.132	9
SPS	'MADOX 115KV'	75	-0.08935	SPS	'CZ 69KV'	39	0.04285	-0.1322	9
SPS	'MADOX 115KV'	75	-0.08935	SPS	'HARRINGTON 230KV'	1066	0.04102	-0.13037	9
SPS	'MADOX 115KV'	75	-0.08935	SPS	'HUBRCO2 69KV'	11	0.04292	-0.13227	9
SPS	'MADOX 115KV'	75	-0.08935	SPS	'MOORE COUNTY 115KV'	48	0.04003	-0.12938	9
SPS	'MADOX 115KV'	75	-0.08935	SPS	'NICHOLS 230KV'	117	0.04104	-0.13039	9
SPS	'MADOX 115KV'	75	-0.08935	SPS	'SIDRCH 69KV'	20	0.04292	-0.13227	9
SPS	'MADOX 115KV'	75	-0.08935	SPS	'WILWIND 230KV'	16	0.03894	-0.12829	9
SPS	'Lubbock Power and Light'	152	-0.06598	SPS	'BLACKHAWK 115KV'	220	0.04265	-0.10863	10
SPS	'Lubbock Power and Light'	152	-0.06598	SPS	'CZ 69KV'	39	0.04285	-0.10883	10
SPS	'Lubbock Power and Light'	152	-0.06598	SPS	'HUBRCO2 69KV'	11	0.04292	-0.1089	10
SPS	'Lubbock Power and Light'	152	-0.06598	SPS	'NICHOLS 115KV'	147	0.05132	-0.1173	10
SPS	'Lubbock Power and Light'	152	-0.06598	SPS	'SIDRCH 69KV'	20	0.04292	-0.1089	10
SPS	'Lubbock Power and Light'	152	-0.06598	SPS	'STEER WATER 115KV'	8	0.04719	-0.11317	10
SPS	'Lubbock Power and Light'	152	-0.06598	SPS	'HARRINGTON 230KV'	1066	0.04102	-0.107	11
SPS	'Lubbock Power and Light'	152	-0.06598	SPS	'MOORE COUNTY 115KV'	48	0.04003	-0.10601	11
SPS	'Lubbock Power and Light'	152	-0.06598	SPS	'NICHOLS 230KV'	117	0.04104	-0.10702	11

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

SPS	'Lubbock Power and Light'	152	-0.06598	SPS	'WILWIND 230KV'	16	0.03894	-0.10492	11
SPS	'TUCUMCARI 115KV'	15	-0.12644	SPS	'JONES 230KV'	486	-0.06703	-0.05941	19
SPS	'TUCUMCARI 115KV'	15	-0.12644	SPS	'LP-BRND2 69KV'	80	-0.06598	-0.06046	19
SPS	'PLANTX 115KV'	48	-0.10442	SPS	'LP-BRND2 69KV'	80	-0.06598	-0.03844	29
SPS	'TUCUMCARI 115KV'	15	-0.12644	SPS	'MUSTANG 115KV'	300	-0.08696	-0.03948	29
SPS	'TUCUMCARI 115KV'	15	-0.12644	SPS	'MUSTG5 118.0 230KV'	360	-0.08794	-0.0385	29
SPS	'PLANTX 115KV'	48	-0.10442	SPS	'JONES 230KV'	486	-0.06703	-0.03739	30
SPS	'TUCUMCARI 115KV'	15	-0.12644	SPS	'CUNNINGHAM 115KV'	110	-0.08947	-0.03697	31
SPS	'TUCUMCARI 115KV'	15	-0.12644	SPS	'CUNNINGHAM 230KV'	306	-0.09006	-0.03638	31
SPS	'TUCUMCARI 115KV'	15	-0.12644	SPS	'MADDOX 115KV'	118	-0.08935	-0.03709	31

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: CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2, ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1, Potter - I  
 Limiting Facility: CANYON EAST - OSAGE SWITCHING STATION 115KV CKT 1  
 Direction: To->From  
 Line Outage: BUSHLAND INTERCHANGE - DEAF SMITH INTERCHANGE 230KV CKT 1  
 Flowgate: 5108051014150993511114407AP  
 Date Redispatch Needed: Starting 2007 4/1 - 6/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 April Minimum

Reservation	Relief Amount	Aggregate Relief Amount								
1090680	4.3	7								
1090695	2.5	7								
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Redispatch Amount (MW)	
SPS	'TUCUMCARI 115KV'	15	-0.12636	SPS	'STEER WATER 115KV'	36	0.04732	-0.17368	39	
SPS	'TUCUMCARI 115KV'	15	-0.12636	SPS	'BLACKHAWK 115KV'	220	0.04276	-0.16912	40	
SPS	'TUCUMCARI 115KV'	15	-0.12636	SPS	'CZ 69KV'	35	0.04297	-0.16933	40	
SPS	'TUCUMCARI 115KV'	15	-0.12636	SPS	'SIDRCH 69KV'	14	0.04303	-0.16939	40	
SPS	'TUCUMCARI 115KV'	15	-0.12636	SPS	'HARRINGTON 230KV'	706	0.04113	-0.16749	41	
SPS	'TUCUMCARI 115KV'	15	-0.12636	SPS	'WILWIND 230KV'	72	0.03907	-0.16543	41	
SPS	'PLANTX 115KV'	253	-0.10435	SPS	'STEER WATER 115KV'	36	0.04732	-0.15167	45	
SPS	'PLANTX 115KV'	253	-0.10435	SPS	'BLACKHAWK 115KV'	220	0.04276	-0.14711	46	
SPS	'PLANTX 115KV'	253	-0.10435	SPS	'CZ 69KV'	35	0.04297	-0.14732	46	
SPS	'PLANTX 230KV'	189	-0.10013	SPS	'STEER WATER 115KV'	36	0.04732	-0.14745	46	
SPS	'PLANTX 115KV'	253	-0.10435	SPS	'HARRINGTON 230KV'	706	0.04113	-0.14548	47	
SPS	'PLANTX 115KV'	253	-0.10435	SPS	'WILWIND 230KV'	72	0.03907	-0.14342	48	
SPS	'PLANTX 230KV'	189	-0.10013	SPS	'BLACKHAWK 115KV'	220	0.04276	-0.14289	48	
SPS	'PLANTX 230KV'	189	-0.10013	SPS	'CZ 69KV'	35	0.04297	-0.1431	48	
SPS	'PLANTX 230KV'	189	-0.10013	SPS	'HARRINGTON 230KV'	706	0.04113	-0.14126	48	
SPS	'CARLSBAD 69KV'	18	-0.09296	SPS	'STEER WATER 115KV'	36	0.04732	-0.14028	49	
SPS	'PLANTX 230KV'	189	-0.10013	SPS	'WILWIND 230KV'	72	0.03907	-0.1392	49	
SPS	'CARLSBAD 69KV'	18	-0.09296	SPS	'BLACKHAWK 115KV'	220	0.04276	-0.13572	50	
SPS	'CARLSBAD 69KV'	18	-0.09296	SPS	'CZ 69KV'	35	0.04297	-0.13593	50	
SPS	'CUNNINGHAM 115KV'	110	-0.0894	SPS	'STEER WATER 115KV'	36	0.04732	-0.13672	50	
SPS	'CUNNINGHAM 115KV'	71	-0.0894	SPS	'STEER WATER 115KV'	36	0.04732	-0.13672	50	
SPS	'CUNNINGHAM 230KV'	250	-0.08998	SPS	'STEER WATER 115KV'	36	0.04732	-0.1373	50	
SPS	'MADDOX 115KV'	193	-0.08928	SPS	'STEER WATER 115KV'	36	0.04732	-0.1366	50	
SPS	'CARLSBAD 69KV'	18	-0.09296	SPS	'HARRINGTON 230KV'	706	0.04113	-0.13409	51	
SPS	'CUNNINGHAM 230KV'	250	-0.08998	SPS	'BLACKHAWK 115KV'	220	0.04276	-0.13274	51	
SPS	'CUNNINGHAM 230KV'	250	-0.08998	SPS	'CZ 69KV'	35	0.04297	-0.13295	51	
SPS	'MUSTANG 115KV'	82	-0.08689	SPS	'STEER WATER 115KV'	36	0.04732	-0.13421	51	
SPS	'MUSTG5 118.0 230KV'	385	-0.08787	SPS	'STEER WATER 115KV'	36	0.04732	-0.13519	51	
SPS	'CARLSBAD 69KV'	18	-0.09296	SPS	'WILWIND 230KV'	72	0.03907	-0.13203	52	
SPS	'CUNNINGHAM 115KV'	110	-0.0894	SPS	'BLACKHAWK 115KV'	220	0.04276	-0.13216	52	
SPS	'CUNNINGHAM 115KV'	71	-0.0894	SPS	'BLACKHAWK 115KV'	220	0.04276	-0.13216	52	
SPS	'CUNNINGHAM 115KV'	110	-0.0894	SPS	'CZ 69KV'	35	0.04297	-0.13237	52	
SPS	'CUNNINGHAM 115KV'	71	-0.0894	SPS	'CZ 69KV'	35	0.04297	-0.13237	52	
SPS	'CUNNINGHAM 115KV'	110	-0.0894	SPS	'HARRINGTON 230KV'	706	0.04113	-0.13053	52	
SPS	'CUNNINGHAM 115KV'	71	-0.0894	SPS	'HARRINGTON 230KV'	706	0.04113	-0.13053	52	
SPS	'CUNNINGHAM 230KV'	250	-0.08998	SPS	'HARRINGTON 230KV'	706	0.04113	-0.13111	52	
SPS	'MADDOX 115KV'	193	-0.08928	SPS	'BLACKHAWK 115KV'	220	0.04276	-0.13204	52	
SPS	'MADDOX 115KV'	193	-0.08928	SPS	'CZ 69KV'	35	0.04297	-0.13225	52	
SPS	'MADDOX 115KV'	193	-0.08928	SPS	'HARRINGTON 230KV'	706	0.04113	-0.13041	52	
SPS	'MUSTG5 118.0 230KV'	385	-0.08787	SPS	'BLACKHAWK 115KV'	220	0.04276	-0.13063	52	
SPS	'MUSTG5 118.0 230KV'	385	-0.08787	SPS	'CZ 69KV'	35	0.04297	-0.13084	52	
SPS	'CUNNINGHAM 115KV'	110	-0.0894	SPS	'WILWIND 230KV'	72	0.03907	-0.12847	53	
SPS	'CUNNINGHAM 115KV'	71	-0.0894	SPS	'WILWIND 230KV'	72	0.03907	-0.12847	53	
SPS	'CUNNINGHAM 230KV'	250	-0.08998	SPS	'WILWIND 230KV'	72	0.03907	-0.12905	53	
SPS	'MADDOX 115KV'	193	-0.08928	SPS	'WILWIND 230KV'	72	0.03907	-0.12835	53	
SPS	'MUSTANG 115KV'	82	-0.08689	SPS	'BLACKHAWK 115KV'	220	0.04276	-0.12965	53	
SPS	'MUSTANG 115KV'	82	-0.08689	SPS	'CZ 69KV'	35	0.04297	-0.12986	53	
SPS	'MUSTANG 115KV'	82	-0.08689	SPS	'HARRINGTON 230KV'	706	0.04113	-0.12802	53	
SPS	'MUSTG5 118.0 230KV'	385	-0.08787	SPS	'HARRINGTON 230KV'	706	0.04113	-0.129	53	
SPS	'MUSTANG 115KV'	82	-0.08689	SPS	'WILWIND 230KV'	72	0.03907	-0.12596	54	
SPS	'MUSTG5 118.0 230KV'	385	-0.08787	SPS	'WILWIND 230KV'	72	0.03907	-0.12694	54	
SPS	'Lubbock Power and Light'	172	-0.06592	SPS	'STEER WATER 115KV'	36	0.04732	-0.11324	60	
SPS	'Lubbock Power and Light'	172	-0.06592	SPS	'BLACKHAWK 115KV'	220	0.04276	-0.10868	63	
SPS	'Lubbock Power and Light'	172	-0.06592	SPS	'CZ 69KV'	35	0.04297	-0.10889	63	
SPS	'Lubbock Power and Light'	172	-0.06592	SPS	'HARRINGTON 230KV'	706	0.04113	-0.10705	64	
SPS	'Lubbock Power and Light'	172	-0.06592	SPS	'WILWIND 230KV'	72	0.03907	-0.10499	65	
SPS	'PLANTX 115KV'	253	-0.10435	SPS	'LP-BRND2 69KV'	60	-0.06592	-0.03843	178	
SPS	'PLANTX 115KV'	253	-0.10435	SPS	'JONES 230KV'	104	-0.06697	-0.03738	183	
SPS	'PLANTX 230KV'	189	-0.10013	SPS	'JONES 230KV'	104	-0.06697	-0.03316	206	

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: CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2, ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1, Potter - I  
 Limiting Facility: PALODU - RANDALL COUNTY INTERCHANGE 115KV CKT 1

SPP AGGREGATE SYSTEM IMPACT STUDY (SPP-2006-AG2-ASIS)

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Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

Direction: To->From  
 Line Outage: AMARILLO S INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1  
 Flowgate: 51082510201510415132111411SP  
 Date Redispatch Needed: 6/1 - 10/1 Until EOC of Upgrade Starting 2009  
 Season Flowgate Identified: 2011 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount											
1090298		0.1	1										
1090301		0.1	1										
1090322		0.2	1										
1090680		0.5	1										
1090695		0.3	1										
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)				
SPS	'Lubbock Power and Light'	152	-0.07339	SPS	'BLACKHAWK 115KV'	220	0.05868	-0.13207	8				
SPS	'Lubbock Power and Light'	152	-0.07339	SPS	'CZ 69KV'	39	0.05731	-0.1307	8				
SPS	'Lubbock Power and Light'	152	-0.07339	SPS	'HARRINGTON 230KV'	1066	0.05821	-0.1316	8				
SPS	'Lubbock Power and Light'	152	-0.07339	SPS	'HUBRCO2 69KV'	11	0.05895	-0.13234	8				
SPS	'Lubbock Power and Light'	152	-0.07339	SPS	'NICHOLS 115KV'	147	0.06649	-0.13988	8				
SPS	'Lubbock Power and Light'	152	-0.07339	SPS	'NICHOLS 230KV'	147	0.05844	-0.13183	8				
SPS	'Lubbock Power and Light'	152	-0.07339	SPS	'SIDRCH 69KV'	20	0.05895	-0.13234	8				
SPS	'Lubbock Power and Light'	152	-0.07339	SPS	'STEER WATER 115KV'	8	0.06201	-0.1354	8				
SPS	'Lubbock Power and Light'	152	-0.07339	SPS	'MOORE COUNTY 115KV'	48	0.05503	-0.12842	9				
SPS	'MADOX 115KV'	30	-0.05144	SPS	'NICHOLS 115KV'	147	0.06649	-0.11793	9				
SPS	'PLANTX 115KV'	48	-0.05393	SPS	'NICHOLS 115KV'	147	0.06649	-0.12042	9				
SPS	'CARLSBAD 69KV'	18	-0.04835	SPS	'BLACKHAWK 115KV'	220	0.05868	-0.10703	10				
SPS	'CARLSBAD 69KV'	18	-0.04835	SPS	'CZ 69KV'	39	0.05731	-0.10566	10				
SPS	'CARLSBAD 69KV'	18	-0.04835	SPS	'HARRINGTON 230KV'	1066	0.05821	-0.10656	10				
SPS	'CARLSBAD 69KV'	18	-0.04835	SPS	'HUBRCO2 69KV'	11	0.05895	-0.1073	10				
SPS	'CARLSBAD 69KV'	18	-0.04835	SPS	'NICHOLS 115KV'	147	0.06649	-0.11484	10				
SPS	'CARLSBAD 69KV'	18	-0.04835	SPS	'NICHOLS 230KV'	147	0.05844	-0.10679	10				
SPS	'CARLSBAD 69KV'	18	-0.04835	SPS	'SIDRCH 69KV'	20	0.05895	-0.1073	10				
SPS	'CARLSBAD 69KV'	18	-0.04835	SPS	'STEER WATER 115KV'	8	0.06201	-0.11036	10				
SPS	'Lubbock Power and Light'	152	-0.07339	SPS	'WILWIND 230KV'	16	0.03776	-0.1115	10				
SPS	'MADOX 115KV'	30	-0.05144	SPS	'BLACKHAWK 115KV'	220	0.05868	-0.11012	10				
SPS	'MADOX 115KV'	30	-0.05144	SPS	'CZ 69KV'	39	0.05731	-0.10875	10				
SPS	'MADOX 115KV'	30	-0.05144	SPS	'HARRINGTON 230KV'	1066	0.05821	-0.10965	10				
SPS	'MADOX 115KV'	30	-0.05144	SPS	'HUBRCO2 69KV'	11	0.05895	-0.11039	10				
SPS	'MADOX 115KV'	30	-0.05144	SPS	'MOORE COUNTY 115KV'	48	0.05503	-0.10647	10				
SPS	'MADOX 115KV'	30	-0.05144	SPS	'NICHOLS 230KV'	147	0.05844	-0.10988	10				
SPS	'MADOX 115KV'	30	-0.05144	SPS	'SIDRCH 69KV'	20	0.05895	-0.11039	10				
SPS	'MADOX 115KV'	30	-0.05144	SPS	'STEER WATER 115KV'	8	0.06201	-0.11345	10				
SPS	'PLANTX 115KV'	48	-0.05393	SPS	'BLACKHAWK 115KV'	220	0.05868	-0.11261	10				
SPS	'PLANTX 115KV'	48	-0.05393	SPS	'CZ 69KV'	39	0.05731	-0.11124	10				
SPS	'PLANTX 115KV'	48	-0.05393	SPS	'HARRINGTON 230KV'	1066	0.05821	-0.11214	10				
SPS	'PLANTX 115KV'	48	-0.05393	SPS	'HUBRCO2 69KV'	11	0.05895	-0.11288	10				
SPS	'PLANTX 115KV'	48	-0.05393	SPS	'MOORE COUNTY 115KV'	48	0.05503	-0.10896	10				
SPS	'PLANTX 115KV'	48	-0.05393	SPS	'NICHOLS 230KV'	147	0.05844	-0.11237	10				
SPS	'PLANTX 115KV'	48	-0.05393	SPS	'SIDRCH 69KV'	20	0.05895	-0.11288	10				
SPS	'PLANTX 115KV'	48	-0.05393	SPS	'STEER WATER 115KV'	8	0.06201	-0.11594	10				
SPS	'CARLSBAD 69KV'	18	-0.04835	SPS	'MOORE COUNTY 115KV'	48	0.05503	-0.10338	11				
SPS	'TUCUMCARI 115KV'	15	-0.03394	SPS	'NICHOLS 115KV'	147	0.06649	-0.10043	11				
SPS	'MADOX 115KV'	30	-0.05144	SPS	'WILWIND 230KV'	16	0.03776	-0.0892	12				
SPS	'PLANTX 115KV'	48	-0.05393	SPS	'WILWIND 230KV'	16	0.03776	-0.09169	12				
SPS	'TUCUMCARI 115KV'	15	-0.03394	SPS	'BLACKHAWK 115KV'	220	0.05868	-0.09262	12				
SPS	'TUCUMCARI 115KV'	15	-0.03394	SPS	'CZ 69KV'	39	0.05731	-0.09125	12				
SPS	'TUCUMCARI 115KV'	15	-0.03394	SPS	'HARRINGTON 230KV'	1066	0.05821	-0.09215	12				
SPS	'TUCUMCARI 115KV'	15	-0.03394	SPS	'HUBRCO2 69KV'	11	0.05895	-0.09289	12				
SPS	'TUCUMCARI 115KV'	15	-0.03394	SPS	'MOORE COUNTY 115KV'	48	0.05503	-0.08897	12				
SPS	'TUCUMCARI 115KV'	15	-0.03394	SPS	'NICHOLS 230KV'	147	0.05844	-0.09238	12				
SPS	'TUCUMCARI 115KV'	15	-0.03394	SPS	'SIDRCH 69KV'	20	0.05895	-0.09289	12				
SPS	'TUCUMCARI 115KV'	15	-0.03394	SPS	'STEER WATER 115KV'	8	0.06201	-0.09595	12				
SPS	'CARLSBAD 69KV'	18	-0.04835	SPS	'WILWIND 230KV'	16	0.03776	-0.08611	13				
SPS	'TUCUMCARI 115KV'	15	-0.03394	SPS	'WILWIND 230KV'	16	0.03776	-0.0717	15				
SPS	'Lubbock Power and Light'	152	-0.07339	SPS	'PLANTX 230KV'	189	-0.03725	-0.03614	31				
SPS	'Lubbock Power and Light'	152	-0.07339	SPS	'SAN JUAN 230KV'	12	-0.04153	-0.03186	35				
SPS	'Lubbock Power and Light'	152	-0.07339	SPS	'TOLK 230KV'	1016	-0.04158	-0.03181	35				

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: CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2, ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1, Potter - I  
 Limiting Facility: PALODU - RANDALL COUNTY INTERCHANGE 115KV CKT 1  
 Direction: To->From  
 Line Outage: AMARILLO S INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1  
 Flowgate: 510825102015104151321114108SP  
 Date Redispatch Needed: Starting 2008 6/1 - 10/1 Until EOC  
 Season Flowgate Identified: 2008 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount											
1090298		0.4	4										
1090301		0.6	4										
1090680		1.9	4										
1090695		1.1	4										
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)				
SPS	'Lubbock Power and Light'	108	-0.0734	SPS	'NICHOLS 115KV'	213	0.06647	-0.13987	28				
SPS	'Lubbock Power and Light'	108	-0.0734	SPS	'STEER WATER 115KV'	80	0.062	-0.1354	29				
SPS	'Lubbock Power and Light'	108	-0.0734	SPS	'BLACKHAWK 115KV'	220	0.05865	-0.13205	30				
SPS	'Lubbock Power and Light'	108	-0.0734	SPS	'CZ 69KV'	39	0.05729	-0.13069	30				
SPS	'Lubbock Power and Light'	108	-0.0734	SPS	'HARRINGTON 230KV'	1066	0.0582	-0.1316	30				

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

SPS	'Lubbock Power and Light'	108	-0.0734	SPS	'HUBRCO2 69KV'	11	0.05892	-0.13232	30
SPS	'Lubbock Power and Light'	108	-0.0734	SPS	'NICHOLS 230KV'	196	0.05843	-0.13183	30
SPS	'Lubbock Power and Light'	108	-0.0734	SPS	'SIDRCH 69KV'	20	0.05892	-0.13232	30
SPS	'Lubbock Power and Light'	108	-0.0734	SPS	'MOORE COUNTY 115KV'	48	0.05499	-0.12839	31
SPS	'MUSTG5 118.0 230KV'	150	-0.05233	SPS	'NICHOLS 115KV'	213	0.06647	-0.1188	33
SPS	'CARLSBAD 69KV'	18	-0.04836	SPS	'NICHOLS 115KV'	213	0.06647	-0.11483	34
SPS	'Lubbock Power and Light'	108	-0.0734	SPS	'WILWIND 230KV'	160	0.03775	-0.11115	35
SPS	'MUSTG5 118.0 230KV'	150	-0.05233	SPS	'SIDRCH 69KV'	20	0.05892	-0.11125	35
SPS	'MUSTG5 118.0 230KV'	150	-0.05233	SPS	'STEER WATER 115KV'	80	0.062	-0.11433	35
SPS	'CARLSBAD 69KV'	18	-0.04836	SPS	'STEER WATER 115KV'	80	0.062	-0.11036	36
SPS	'MUSTG5 118.0 230KV'	150	-0.05233	SPS	'BLACKHAWK 115KV'	220	0.05865	-0.11098	36
SPS	'MUSTG5 118.0 230KV'	150	-0.05233	SPS	'CZ 69KV'	39	0.05729	-0.10962	36
SPS	'MUSTG5 118.0 230KV'	150	-0.05233	SPS	'HARRINGTON 230KV'	1066	0.0582	-0.11053	36
SPS	'MUSTG5 118.0 230KV'	150	-0.05233	SPS	'NICHOLS 230KV'	196	0.05843	-0.11076	36
SPS	'CARLSBAD 69KV'	18	-0.04836	SPS	'BLACKHAWK 115KV'	220	0.05865	-0.10701	37
SPS	'CARLSBAD 69KV'	18	-0.04836	SPS	'CZ 69KV'	39	0.05729	-0.10565	37
SPS	'CARLSBAD 69KV'	18	-0.04836	SPS	'HARRINGTON 230KV'	1066	0.0582	-0.10656	37
SPS	'CARLSBAD 69KV'	18	-0.04836	SPS	'NICHOLS 230KV'	196	0.05843	-0.10679	37
SPS	'CARLSBAD 69KV'	18	-0.04836	SPS	'SIDRCH 69KV'	20	0.05892	-0.10728	37
SPS	'MUSTG5 118.0 230KV'	150	-0.05233	SPS	'MOORE COUNTY 115KV'	48	0.05499	-0.10732	37
SPS	'CARLSBAD 69KV'	18	-0.04836	SPS	'MOORE COUNTY 115KV'	48	0.05499	-0.10335	38
SPS	'TUCUMCARI 115KV'	15	-0.03395	SPS	'NICHOLS 115KV'	213	0.06647	-0.10042	39
SPS	'TUCUMCARI 115KV'	15	-0.03395	SPS	'STEER WATER 115KV'	80	0.062	-0.09595	41
SPS	'TUCUMCARI 115KV'	15	-0.03395	SPS	'SIDRCH 69KV'	20	0.05892	-0.09287	42
SPS	'TUCUMCARI 115KV'	15	-0.03395	SPS	'BLACKHAWK 115KV'	220	0.05865	-0.0926	43
SPS	'TUCUMCARI 115KV'	15	-0.03395	SPS	'CZ 69KV'	39	0.05729	-0.09124	43
SPS	'TUCUMCARI 115KV'	15	-0.03395	SPS	'HARRINGTON 230KV'	1066	0.0582	-0.09215	43
SPS	'TUCUMCARI 115KV'	15	-0.03395	SPS	'NICHOLS 230KV'	196	0.05843	-0.09238	43
SPS	'MUSTG5 118.0 230KV'	150	-0.05233	SPS	'WILWIND 230KV'	160	0.03775	-0.09008	44
SPS	'TUCUMCARI 115KV'	15	-0.03395	SPS	'MOORE COUNTY 115KV'	48	0.05499	-0.08894	44
SPS	'CARLSBAD 69KV'	18	-0.04836	SPS	'WILWIND 230KV'	160	0.03775	-0.08611	46
SPS	'Lubbock Power and Light'	108	-0.0734	SPS	'CAPROCK 115KV'	80	-0.03395	-0.03945	100
SPS	'Lubbock Power and Light'	108	-0.0734	SPS	'PLANTX 230KV'	189	-0.03726	-0.03614	109
SPS	'Lubbock Power and Light'	108	-0.0734	SPS	'SAN JUAN 230KV'	120	-0.04154	-0.03186	124
SPS	'Lubbock Power and Light'	108	-0.0734	SPS	'TOLK 230KV'	1031	-0.04159	-0.03181	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: CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2, ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1, Potter - I  
 Limiting Facility: PALODU - RANDALL COUNTY INTERCHANGE 115KV CKT 1  
 Direction: To->From  
 Line Outage: KRESS INTERCHANGE - SWISHER COUNTY INTERCHANGE 115KV CKT 1  
 Flowgate: 51082510201513165132011411SP  
 Date Redispatch Needed: 6/1 - 10/1 Until EOC of Upgrade Starting 2009  
 Season Flowgate Identified: 2011 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090298	0.1	1
1090301	0.1	1
1090322	0.1	1
1090487	0.5	1
1090680	0.1	1
1090695	0.1	1

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
SPS	'PLANTX 115KV'	48	-0.05774	SPS	'NICHOLS 115KV'	147	0.03766	-0.0954	9
SPS	'PLANTX 115KV'	48	-0.05774	SPS	'BLACKHAWK 115KV'	220	0.03147	-0.08921	10
SPS	'PLANTX 115KV'	48	-0.05774	SPS	'CZ 69KV'	39	0.03148	-0.08922	10
SPS	'PLANTX 115KV'	48	-0.05774	SPS	'HARRINGTON 230KV'	1066	0.03048	-0.08822	10
SPS	'PLANTX 115KV'	48	-0.05774	SPS	'HUBRCO2 69KV'	11	0.03166	-0.0894	10
SPS	'PLANTX 115KV'	48	-0.05774	SPS	'MOORE COUNTY 115KV'	48	0.0292	-0.08694	10
SPS	'PLANTX 115KV'	48	-0.05774	SPS	'NICHOLS 230KV'	147	0.03048	-0.08822	10
SPS	'PLANTX 115KV'	48	-0.05774	SPS	'SIDRCH 69KV'	20	0.03166	-0.0894	10
SPS	'PLANTX 115KV'	48	-0.05774	SPS	'STEER WATER 115KV'	8	0.03465	-0.09239	10
SPS	'Lubbock Power and Light'	152	-0.04476	SPS	'NICHOLS 115KV'	147	0.03766	-0.08242	11
SPS	'Lubbock Power and Light'	152	-0.04476	SPS	'STEER WATER 115KV'	8	0.03465	-0.07941	11
SPS	'CARLSBAD 69KV'	18	-0.0367	SPS	'NICHOLS 115KV'	147	0.03766	-0.07436	12
SPS	'CARLSBAD 69KV'	18	-0.0367	SPS	'STEER WATER 115KV'	8	0.03465	-0.07135	12
SPS	'Lubbock Power and Light'	152	-0.04476	SPS	'BLACKHAWK 115KV'	220	0.03147	-0.07623	12
SPS	'Lubbock Power and Light'	152	-0.04476	SPS	'CZ 69KV'	39	0.03148	-0.07624	12
SPS	'Lubbock Power and Light'	152	-0.04476	SPS	'HARRINGTON 230KV'	1066	0.03048	-0.07524	12
SPS	'Lubbock Power and Light'	152	-0.04476	SPS	'HUBRCO2 69KV'	11	0.03166	-0.07642	12
SPS	'Lubbock Power and Light'	152	-0.04476	SPS	'MOORE COUNTY 115KV'	48	0.0292	-0.07396	12
SPS	'Lubbock Power and Light'	152	-0.04476	SPS	'NICHOLS 230KV'	147	0.03048	-0.07524	12
SPS	'Lubbock Power and Light'	152	-0.04476	SPS	'SIDRCH 69KV'	20	0.03166	-0.07642	12
SPS	'MADOX 115KV'	30	-0.03801	SPS	'NICHOLS 115KV'	147	0.03766	-0.07567	12
SPS	'MADOX 115KV'	30	-0.03801	SPS	'STEER WATER 115KV'	8	0.03465	-0.07266	12
SPS	'PLANTX 115KV'	48	-0.05774	SPS	'WILWIND 230KV'	16	0.01716	-0.0749	12
SPS	'CARLSBAD 69KV'	18	-0.0367	SPS	'BLACKHAWK 115KV'	220	0.03147	-0.06817	13
SPS	'CARLSBAD 69KV'	18	-0.0367	SPS	'CZ 69KV'	39	0.03148	-0.06818	13
SPS	'CARLSBAD 69KV'	18	-0.0367	SPS	'HARRINGTON 230KV'	1066	0.03048	-0.06718	13
SPS	'CARLSBAD 69KV'	18	-0.0367	SPS	'HUBRCO2 69KV'	11	0.03166	-0.06836	13
SPS	'CARLSBAD 69KV'	18	-0.0367	SPS	'MOORE COUNTY 115KV'	48	0.0292	-0.0659	13
SPS	'CARLSBAD 69KV'	18	-0.0367	SPS	'NICHOLS 230KV'	147	0.03048	-0.06718	13
SPS	'CARLSBAD 69KV'	18	-0.0367	SPS	'SIDRCH 69KV'	20	0.03166	-0.06836	13
SPS	'MADOX 115KV'	30	-0.03801	SPS	'BLACKHAWK 115KV'	220	0.03147	-0.06948	13
SPS	'MADOX 115KV'	30	-0.03801	SPS	'CZ 69KV'	39	0.03148	-0.06949	13
SPS	'MADOX 115KV'	30	-0.03801	SPS	'HARRINGTON 230KV'	1066	0.03048	-0.06849	13
SPS	'MADOX 115KV'	30	-0.03801	SPS	'HUBRCO2 69KV'	11	0.03166	-0.06967	13
SPS	'MADOX 115KV'	30	-0.03801	SPS	'MOORE COUNTY 115KV'	48	0.0292	-0.06721	13
SPS	'MADOX 115KV'	30	-0.03801	SPS	'NICHOLS 230KV'	147	0.03048	-0.06849	13
SPS	'MADOX 115KV'	30	-0.03801	SPS	'SIDRCH 69KV'	20	0.03166	-0.06967	13



Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

SPS	'TUCUMCARI 115KV'	15	-0.02936	SPS	'NICHOLS 115KV'	147	0.03766	-0.06702	13
SPS	'Lubbock Power and Light'	152	-0.04476	SPS	'WILWIND 230KV'	16	0.01716	-0.06192	14
SPS	'TUCUMCARI 115KV'	15	-0.02936	SPS	'HUBRCO2 69KV'	11	0.03166	-0.06102	14
SPS	'TUCUMCARI 115KV'	15	-0.02936	SPS	'SIDRCH 69KV'	20	0.03166	-0.06102	14
SPS	'TUCUMCARI 115KV'	15	-0.02936	SPS	'STEER WATER 115KV'	8	0.03465	-0.06401	14
SPS	'TUCUMCARI 115KV'	15	-0.02936	SPS	'BLACKHAWK 115KV'	220	0.03147	-0.06083	15
SPS	'TUCUMCARI 115KV'	15	-0.02936	SPS	'CZ 69KV'	39	0.03148	-0.06084	15
SPS	'TUCUMCARI 115KV'	15	-0.02936	SPS	'HARRINGTON 230KV'	1066	0.03048	-0.05984	15
SPS	'TUCUMCARI 115KV'	15	-0.02936	SPS	'MOORE COUNTY 115KV'	48	0.0292	-0.05856	15
SPS	'TUCUMCARI 115KV'	15	-0.02936	SPS	'NICHOLS 230KV'	147	0.03048	-0.05984	15
SPS	'CARLSBAD 69KV'	18	-0.0367	SPS	'WILWIND 230KV'	16	0.01716	-0.05386	16
SPS	'MADOX 115KV'	30	-0.03801	SPS	'WILWIND 230KV'	16	0.01716	-0.05517	16
SPS	'TUCUMCARI 115KV'	15	-0.02936	SPS	'WILWIND 230KV'	16	0.01716	-0.04652	19

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: DANVILLE (APL) - MAGAZINE REC 161KV CKT 1  
 Limiting Facility: DANVILLE (APL) - MAGAZINE REC 161KV CKT 1  
 Direction: From->To  
 Line Outage: ARKANSAS NUCLEAR ONE 500 - FT SMITH 500KV CKT 1  
 Flowgate: 99496532011994865530512207SP  
 Date Redispatch Needed: 6/1/07 - 10/1/07  
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount										
1087745	3.0	7										
1090812	3.7	7										
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)			
SWPA	'ROBERT S. KERR 161KV'	19	-0.14015	SWPA	'DARDANELLE 161KV'	105	0.09572	-0.23587	28			
SWPA	'TENKILLER FERRY 161KV'	26	-0.1045	SWPA	'DARDANELLE 161KV'	105	0.09572	-0.20022	33			
SWPA	'WEBBERS FALLS 161KV'	30	-0.1045	SWPA	'DARDANELLE 161KV'	105	0.09572	-0.20022	33			
SWPA	'OZARK 161KV'	37	-0.09282	SWPA	'DARDANELLE 161KV'	105	0.09572	-0.18854	35			
SWPA	'ROBERT S. KERR 161KV'	19	-0.14015	SWPA	'GREERS FERRY 161KV'	93	0.01997	-0.16012	42			
SWPA	'ROBERT S. KERR 161KV'	19	-0.14015	SWPA	'JONESBORO 161KV'	63	0.00393	-0.14408	46			
SWPA	'BEAVER 161KV'	22	-0.04433	SWPA	'DARDANELLE 161KV'	105	0.09572	-0.14005	48			
SWPA	'BROKEN BOW 138KV'	17	-0.03938	SWPA	'DARDANELLE 161KV'	105	0.09572	-0.1351	49			
SWPA	'ROBERT S. KERR 161KV'	19	-0.14015	SWPA	'SIKESTON 161KV'	235	-0.004	-0.13615	49			
SWPA	'ROBERT S. KERR 161KV'	19	-0.14015	SWPA	'NORFORK 161KV'	20	-0.00611	-0.13404	50			
SWPA	'ROBERT S. KERR 161KV'	19	-0.14015	SWPA	'BULL SHOALS 161KV'	293	-0.00895	-0.1312	51			
SWPA	'TABLE ROCK 161KV'	33	-0.02997	SWPA	'DARDANELLE 161KV'	105	0.09572	-0.12569	53			
SWPA	'TRUMAN 161KV'	78	-0.02996	SWPA	'DARDANELLE 161KV'	105	0.09572	-0.12568	53			
SWPA	'TENKILLER FERRY 161KV'	26	-0.1045	SWPA	'GREERS FERRY 161KV'	93	0.01997	-0.12447	54			
SWPA	'WEBBERS FALLS 161KV'	30	-0.1045	SWPA	'GREERS FERRY 161KV'	93	0.01997	-0.12447	54			
SWPA	'ROBERT S. KERR 161KV'	19	-0.14015	SWPA	'CLARENCE CANNON DAM 69KV'	39	-0.02126	-0.11889	56			
SWPA	'OZARK 161KV'	37	-0.09282	SWPA	'GREERS FERRY 161KV'	93	0.01997	-0.11279	59			
SWPA	'TENKILLER FERRY 161KV'	26	-0.1045	SWPA	'JONESBORO 161KV'	63	0.00393	-0.10843	62			
SWPA	'WEBBERS FALLS 161KV'	30	-0.1045	SWPA	'JONESBORO 161KV'	63	0.00393	-0.10843	62			
SWPA	'BULL SHOALS 161KV'	52	-0.00895	SWPA	'DARDANELLE 161KV'	105	0.09572	-0.10467	64			
SWPA	'NORFORK 161KV'	65	-0.00611	SWPA	'DARDANELLE 161KV'	105	0.09572	-0.10183	66			
SWPA	'TENKILLER FERRY 161KV'	26	-0.1045	SWPA	'SIKESTON 161KV'	235	-0.004	-0.1005	66			
SWPA	'WEBBERS FALLS 161KV'	30	-0.1045	SWPA	'SIKESTON 161KV'	235	-0.004	-0.1005	66			
SWPA	'OZARK 161KV'	37	-0.09282	SWPA	'JONESBORO 161KV'	63	0.00393	-0.09675	69			
SWPA	'TENKILLER FERRY 161KV'	26	-0.1045	SWPA	'BULL SHOALS 161KV'	293	-0.00895	-0.09555	70			
SWPA	'WEBBERS FALLS 161KV'	30	-0.1045	SWPA	'BULL SHOALS 161KV'	293	-0.00895	-0.09555	70			
SWPA	'OZARK 161KV'	37	-0.09282	SWPA	'SIKESTON 161KV'	235	-0.004	-0.08882	75			
SWPA	'OZARK 161KV'	37	-0.09282	SWPA	'BULL SHOALS 161KV'	293	-0.00895	-0.08387	80			
SWPA	'WEBBERS FALLS 161KV'	30	-0.1045	SWPA	'CLARENCE CANNON DAM 69KV'	39	-0.02126	-0.08324	80			
SWPA	'OZARK 161KV'	37	-0.09282	SWPA	'CLARENCE CANNON DAM 69KV'	39	-0.02126	-0.07156	93			
SWPA	'OZARK 161KV'	37	-0.09282	SWPA	'TABLE ROCK 161KV'	187	-0.02997	-0.06285	106			
SWPA	'OZARK 161KV'	37	-0.09282	SWPA	'TRUMAN 161KV'	102	-0.02996	-0.06286	106			
AEPW	'WELEETKA 138KV'	72	-0.07356	AEPW	'LIEBERMAN 138KV'	74	-0.01214	-0.06142	109			
AEPW	'COGENTRIX 345KV'	694	-0.0705	AEPW	'LIEBERMAN 138KV'	74	-0.01214	-0.05836	114			
AEPW	'WELEETKA 138KV'	72	-0.07356	AEPW	'EASTMAN 138KV'	355	-0.01501	-0.05855	114			
AEPW	'WELEETKA 138KV'	72	-0.07356	AEPW	'KNOXLEE 138KV'	225	-0.01474	-0.05882	114			
AEPW	'WELEETKA 138KV'	72	-0.07356	AEPW	'LEBROCK 345KV'	515	-0.015	-0.05856	114			
AEPW	'WELEETKA 138KV'	72	-0.07356	AEPW	'PIRKEY GENERATION 138KV'	248	-0.01487	-0.05869	114			
AEPW	'OEC 345KV'	1041	-0.07033	AEPW	'LIEBERMAN 138KV'	74	-0.01214	-0.05819	115			
AEPW	'RIVERSIDE STATION 138KV'	76	-0.07025	AEPW	'LIEBERMAN 138KV'	74	-0.01214	-0.05811	115			
AEPW	'RVRSDIG13.8 138KV'	172	-0.07025	AEPW	'LIEBERMAN 138KV'	74	-0.01214	-0.05811	115			
AEPW	'WELEETKA 138KV'	72	-0.07356	AEPW	'WILKES 345KV'	311	-0.01542	-0.05814	115			
AEPW	'TULSA POWER STATION 138KV'	72	-0.06978	AEPW	'LIEBERMAN 138KV'	74	-0.01214	-0.05764	116			
AEPW	'WELEETKA 138KV'	72	-0.07356	AEPW	'WILKES 138KV'	318	-0.01606	-0.0575	116			
AEPW	'COGENTRIX 345KV'	694	-0.0705	AEPW	'EASTMAN 138KV'	355	-0.01501	-0.05549	120			
AEPW	'COGENTRIX 345KV'	694	-0.0705	AEPW	'KNOXLEE 138KV'	225	-0.01474	-0.05576	120			
AEPW	'COGENTRIX 345KV'	694	-0.0705	AEPW	'LEBROCK 345KV'	515	-0.015	-0.0555	120			
AEPW	'COGENTRIX 345KV'	694	-0.0705	AEPW	'PIRKEY GENERATION 138KV'	248	-0.01487	-0.05563	120			
AEPW	'OEC 345KV'	1041	-0.07033	AEPW	'KNOXLEE 138KV'	225	-0.01474	-0.05559	120			
AEPW	'OEC 345KV'	1041	-0.07033	AEPW	'PIRKEY GENERATION 138KV'	248	-0.01487	-0.05546	120			
AEPW	'RIVERSIDE STATION 138KV'	76	-0.07025	AEPW	'KNOXLEE 138KV'	225	-0.01474	-0.05551	120			
AEPW	'RVRSDIG13.8 138KV'	172	-0.07025	AEPW	'KNOXLEE 138KV'	225	-0.01474	-0.05551	120			
AEPW	'COGENTRIX 345KV'	694	-0.0705	AEPW	'WILKES 345KV'	311	-0.01542	-0.05508	121			
AEPW	'OEC 345KV'	1041	-0.07033	AEPW	'EASTMAN 138KV'	355	-0.01501	-0.05532	121			
AEPW	'OEC 345KV'	1041	-0.07033	AEPW	'LEBROCK 345KV'	515	-0.015	-0.05533	121			
AEPW	'RIVERSIDE STATION 138KV'	76	-0.07025	AEPW	'EASTMAN 138KV'	355	-0.01501	-0.05524	121			
AEPW	'RIVERSIDE STATION 138KV'	76	-0.07025	AEPW	'LEBROCK 345KV'	515	-0.015	-0.05525	121			
AEPW	'RIVERSIDE STATION 138KV'	76	-0.07025	AEPW	'PIRKEY GENERATION 138KV'	248	-0.01487	-0.05538	121			
AEPW	'RVRSDIG13.8 138KV'	172	-0.07025	AEPW	'EASTMAN 138KV'	355	-0.01501	-0.05524	121			
AEPW	'RVRSDIG13.8 138KV'	172	-0.07025	AEPW	'LEBROCK 345KV'	515	-0.015	-0.05525	121			
AEPW	'RVRSDIG13.8 138KV'	172	-0.07025	AEPW	'PIRKEY GENERATION 138KV'	248	-0.01487	-0.05538	121			
AEPW	'TULSA POWER STATION 138KV'	72	-0.06978	AEPW	'KNOXLEE 138KV'	225	-0.01474	-0.05504	121			
AEPW	'OEC 345KV'	1041	-0.07033	AEPW	'WILKES 345KV'	311	-0.01542	-0.05491	122			

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

AEPW	'RIVERSIDE STATION 138KV'	76	-0.07025	AEPW	'WILKES 345KV'	311	-0.01542	-0.05483	122
AEPW	'RVRSIDEG13.8 138KV'	172	-0.07025	AEPW	'WILKES 345KV'	311	-0.01542	-0.05483	122
AEPW	'TULSA POWER STATION 138KV'	72	-0.06978	AEPW	'EASTMAN 138KV'	355	-0.01501	-0.05477	122
AEPW	'TULSA POWER STATION 138KV'	72	-0.06978	AEPW	'LEBROCK 345KV'	515	-0.015	-0.05478	122
AEPW	'TULSA POWER STATION 138KV'	72	-0.06978	AEPW	'PIRKEY GENERATION 138KV'	248	-0.01487	-0.05491	122
AEPW	'WELEETKA 138KV'	72	-0.07356	AEPW	'WELSH 345KV'	990	-0.01894	-0.05462	122
AEPW	'COGENTRIX 345KV'	694	-0.0705	AEPW	'WILKES 138KV'	318	-0.01606	-0.05444	123
AEPW	'OEC 345KV'	1041	-0.07033	AEPW	'WILKES 138KV'	318	-0.01606	-0.05427	123
AEPW	'RIVERSIDE STATION 138KV'	76	-0.07025	AEPW	'WILKES 138KV'	318	-0.01606	-0.05419	123
AEPW	'RVRSIDEG13.8 138KV'	172	-0.07025	AEPW	'WILKES 138KV'	318	-0.01606	-0.05419	123
AEPW	'TULSA POWER STATION 138KV'	72	-0.06978	AEPW	'WILKES 345KV'	311	-0.01542	-0.05436	123
AEPW	'TULSA POWER STATION 138KV'	72	-0.06978	AEPW	'WILKES 138KV'	318	-0.01606	-0.05372	124
AEPW	'MID-CONTINENT 138KV'	142	-0.065	AEPW	'LIEBERMAN 138KV'	74	-0.01214	-0.05286	126
AEPW	'COGENTRIX 345KV'	694	-0.0705	AEPW	'WELSH 345KV'	990	-0.01894	-0.05156	130
AEPW	'OEC 345KV'	1041	-0.07033	AEPW	'WELSH 345KV'	990	-0.01894	-0.05139	130
AEPW	'RIVERSIDE STATION 138KV'	76	-0.07025	AEPW	'WELSH 345KV'	990	-0.01894	-0.05131	130
AEPW	'RVRSIDEG13.8 138KV'	172	-0.07025	AEPW	'WELSH 345KV'	990	-0.01894	-0.05131	130
AEPW	'TULSA POWER STATION 138KV'	72	-0.06978	AEPW	'WELSH 345KV'	990	-0.01894	-0.05084	131
AEPW	'MID-CONTINENT 138KV'	142	-0.065	AEPW	'KNOXLEE 138KV'	225	-0.01474	-0.05026	133
AEPW	'MID-CONTINENT 138KV'	142	-0.065	AEPW	'PIRKEY GENERATION 138KV'	248	-0.01487	-0.05013	133
AEPW	'MID-CONTINENT 138KV'	142	-0.065	AEPW	'EASTMAN 138KV'	355	-0.01501	-0.04999	134
AEPW	'MID-CONTINENT 138KV'	142	-0.065	AEPW	'LEBROCK 345KV'	515	-0.015	-0.05	134
SWPA	'TRUMAN 161KV'	78	-0.02996	SWPA	'GREERS FERRY 161KV'	93	0.01997	-0.04993	134
AEPW	'MID-CONTINENT 138KV'	142	-0.065	AEPW	'WILKES 345KV'	311	-0.01542	-0.04958	135
AEPW	'MID-CONTINENT 138KV'	142	-0.065	AEPW	'WILKES 138KV'	318	-0.01606	-0.04894	136
AEPW	'MID-CONTINENT 138KV'	142	-0.065	AEPW	'WELSH 345KV'	990	-0.01894	-0.04606	145
AEPW	'SOUTHWESTERN STATION 138KV'	151	-0.05834	AEPW	'LIEBERMAN 138KV'	74	-0.01214	-0.0462	145
AEPW	'SOUTHWESTERN STATION 138KV'	336	-0.05834	AEPW	'LIEBERMAN 138KV'	74	-0.01214	-0.0462	145
AEPW	'KIOWA 345KV'	1348	-0.05687	AEPW	'LIEBERMAN 138KV'	74	-0.01214	-0.04473	149
AEPW	'SOUTHWESTERN STATION 138KV'	151	-0.05834	AEPW	'KNOXLEE 138KV'	225	-0.01474	-0.0436	153
AEPW	'SOUTHWESTERN STATION 138KV'	336	-0.05834	AEPW	'KNOXLEE 138KV'	225	-0.01474	-0.0436	153
AEPW	'SOUTHWESTERN STATION 138KV'	151	-0.05834	AEPW	'EASTMAN 138KV'	355	-0.01501	-0.04333	154
AEPW	'SOUTHWESTERN STATION 138KV'	336	-0.05834	AEPW	'EASTMAN 138KV'	355	-0.01501	-0.04333	154
AEPW	'SOUTHWESTERN STATION 138KV'	151	-0.05834	AEPW	'LEBROCK 345KV'	515	-0.015	-0.04334	154
AEPW	'SOUTHWESTERN STATION 138KV'	336	-0.05834	AEPW	'LEBROCK 345KV'	515	-0.015	-0.04334	154
AEPW	'SOUTHWESTERN STATION 138KV'	151	-0.05834	AEPW	'PIRKEY GENERATION 138KV'	248	-0.01487	-0.04347	154
AEPW	'SOUTHWESTERN STATION 138KV'	336	-0.05834	AEPW	'PIRKEY GENERATION 138KV'	248	-0.01487	-0.04347	154

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: ELK CITY - ELK CITY 69KV CKT 1 AEPW  
 Limiting Facility: ELK CITY - ELK CITY 69KV CKT 1  
 Direction: From->To  
 Line Outage: HOBART JUNCTION - TAMARAC TAP 138KV CKT 1  
 Flowgate: 55897541221541265415812407SP  
 Date Redispatch Needed: 6/1/07 - 10/1/07  
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090270	0.2	1
1090271	0.1	1
1090767	0.2	1
1090789	0.2	1

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
AEPW	'SOUTHWESTERN STATION 138KV'	166	-0.00452	AEPW	'WEATHERFORD 34KV'	148	0.02798	-0.0325	20
AEPW	'SOUTHWESTERN STATION 138KV'	336	-0.00452	AEPW	'WEATHERFORD 34KV'	148	0.02798	-0.0325	20

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: ELK CITY - ELK CITY 69KV CKT 1 AEPW  
 Limiting Facility: ELK CITY - ELK CITY 69KV CKT 1  
 Direction: From->To  
 Line Outage: SPP-AEPW-23A  
 Flowgate: 55897541221SPP-AEPW-23A2107SP  
 Date Redispatch Needed: 6/1/07 - 10/1/07  
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090270	0.3	1
1090271	0.1	1
1090767	0.3	1
1090789	0.2	1

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
OMPA	'OMPA-MANGUM 69KV'	6	-0.298	OMPA	'OMPA-KINGFISHER BOWMAN 69KV'	20	0.0012	-0.2992	3
OMPA	'OMPA-MANGUM 69KV'	6	-0.298	OMPA	'OMPA-PONCA CITY 69KV'	108	0.00015	-0.29815	3
AEPW	'SOUTHWESTERN STATION 138KV'	133	-0.00445	AEPW	'WEATHERFORD 34KV'	148	0.02735	-0.0318	31
AEPW	'SOUTHWESTERN STATION 138KV'	336	-0.00445	AEPW	'WEATHERFORD 34KV'	148	0.02735	-0.0318	31

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: ELK CITY - ELK CITY 69KV CKT 1 AEPW  
 Limiting Facility: ELK CITY - ELK CITY 69KV CKT 1  
 Direction: From->To  
 Line Outage: SPP-AEPW-23B

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

Flowgate: 55897541221SPP-AEPW-23B2107SP  
 Date Redispatch Needed: 6/1/07 - 10/1/07  
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount								
1090270	0.3	1								
1090271	0.1	1								
1090767	0.3	1								
1090789	0.2	1								
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)	
OMPA	'OMPA-MANGUM 69KV'	6	-0.298	OMPA	'OMPA-KINGFISHER BOWMAN 69KV'	20	0.0012	-0.2992	3	
OMPA	'OMPA-MANGUM 69KV'	6	-0.298	OMPA	'OMPA-PONCA CITY 69KV'	108	0.00015	-0.29815	3	
AEPW	'SOUTHWESTERN STATION 138KV'	133	-0.00445	AEPW	'WEATHERFORD 34KV'	148	0.02735	-0.0318	31	
AEPW	'SOUTHWESTERN STATION 138KV'	336	-0.00445	AEPW	'WEATHERFORD 34KV'	148	0.02735	-0.0318	31	

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: FARMERS CONSUMER CO-OP - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT 1  
 Limiting Facility: FARMERS CONSUMER CO-OP - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT 1  
 Direction: From->To  
 Line Outage: SOUTHWEST LAWRENCE - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT 1  
 Flowgate: 57236572771572715727711107SP  
 Date Redispatch Needed: 6/1/07 - 10/1/07  
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount								
1090729	0.8	2								
1090808	0.3	2								
1090823	0.1	2								
1090825	0.2	2								
1090840	0.2	2								
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)	
WERE	'CHANUTE 69KV'	31	0.00048	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.10296	-0.10248	15	
WERE	'CITY OF GIRARD 69KV'	6	-0.00003	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.10296	-0.10299	15	
WERE	'CITY OF IOLA 69KV'	13	-0.00017	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.10296	-0.10313	15	
WERE	'LATHAM1234.0 345KV'	150	0.00368	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.10296	-0.09928	15	
WERE	'NEOSHO ENERGY CENTER 138KV'	47	0.00077	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.10296	-0.10219	15	
WERE	'CITY OF MULVANE 69KV'	8	0.00563	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.10296	-0.09733	16	
WERE	'CITY OF WINFIELD 69KV'	40	0.00473	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.10296	-0.09823	16	
WERE	'EVANS ENERGY CENTER 138KV'	8	0.00653	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.10296	-0.09643	16	
WERE	'GETTY 69KV'	35	0.00526	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.10296	-0.0977	16	
WERE	'GILL ENERGY CENTER 69KV'	8	0.00599	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.10296	-0.09697	16	
WERE	'ST JOHN 115KV'	8	0.01407	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.10296	-0.08889	17	
WERE	'BPU - CITY OF MCPHERSON 115KV'	11	0.01879	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.10296	-0.08417	18	
WERE	'HOLTON 115KV'	17	0.01839	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.10296	-0.08457	18	
WERE	'HUTCHINSON ENERGY CENTER 115KV'	133	0.01797	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.10296	-0.08499	18	
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	0.01796	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.10296	-0.085	18	
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.01969	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.10296	-0.08327	18	
WERE	'SMOKYHIL 230 230KV'	72	0.01847	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.10296	-0.08449	18	
WERE	'CLAY CENTER JUNCTION 115KV'	12	0.02333	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.10296	-0.07963	19	
WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.02219	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.10296	-0.08077	19	
WERE	'CHANUTE 69KV'	31	0.00048	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07759	-0.07711	20	
WERE	'CITY OF IOLA 69KV'	13	-0.00017	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07759	-0.07776	20	
WERE	'NEOSHO ENERGY CENTER 138KV'	47	0.00077	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07759	-0.07682	20	
WERE	'CITY OF MULVANE 69KV'	8	0.00563	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07759	-0.07196	21	
WERE	'CITY OF OSAGE CITY 115KV'	11	0.029	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.10296	-0.07396	21	
WERE	'CITY OF WINFIELD 69KV'	40	0.00473	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07759	-0.07286	21	
WERE	'GETTY 69KV'	35	0.00526	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07759	-0.07233	21	
WERE	'GILL ENERGY CENTER 69KV'	8	0.00599	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07759	-0.0716	21	
WERE	'LATHAM1234.0 345KV'	150	0.00368	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07759	-0.07391	21	
WERE	'EVANS ENERGY CENTER 138KV'	8	0.00653	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07759	-0.07106	22	
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	0.03953	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.10296	-0.06343	24	
WERE	'BPU - CITY OF MCPHERSON 115KV'	11	0.01879	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07759	-0.0588	26	
WERE	'HOLTON 115KV'	17	0.01839	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07759	-0.0592	26	
WERE	'HUTCHINSON ENERGY CENTER 115KV'	133	0.01797	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07759	-0.05962	26	
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	0.01796	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07759	-0.05963	26	
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.01969	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07759	-0.0579	26	
WERE	'SMOKYHIL 230 230KV'	72	0.01847	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07759	-0.05912	26	
WERE	'CLAY CENTER JUNCTION 115KV'	12	0.02333	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07759	-0.05426	28	
WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.02219	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07759	-0.0554	28	
WERE	'CITY OF IOLA 69KV'	13	-0.00017	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.04111	-0.04128	37	
WERE	'CHANUTE 69KV'	31	0.00048	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.04111	-0.04063	38	
WERE	'NEOSHO ENERGY CENTER 138KV'	47	0.00077	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.04111	-0.04034	38	
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	0.03953	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07759	-0.03806	40	
WERE	'LATHAM1234.0 345KV'	150	0.00368	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.04111	-0.03743	41	
WERE	'CITY OF WINFIELD 69KV'	40	0.00473	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.04111	-0.03638	42	
WERE	'GETTY 69KV'	35	0.00526	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.04111	-0.03585	43	

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: FT SUPPLY 138/69KV TRANSFORMER CKT 1  
 Limiting Facility: FT SUPPLY 138/69KV TRANSFORMER CKT 1  
 Direction: From->To  
 Line Outage: FT SUPPLY - IODINE 138KV CKT 1  
 Flowgate: 55919559201559205595711207SP  
 Date Redispatch Needed: 6/1/07 - 10/1/07

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount								
1086235	27.4	33								
1086238	5.5	33								
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)	
WFEC	'ANADARKO 138KV'	90	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	33	
WFEC	'ANADARKO 69KV'	76	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	33	
WFEC	'MORLND 138KV'	39	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	33	

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: FT SUPPLY 138/69KV TRANSFORMER CKT 1  
 Limiting Facility: FT SUPPLY 138/69KV TRANSFORMER CKT 1  
 Direction: From->To  
 Line Outage: FT SUPPLY - IODINE 138KV CKT 1  
 Flowgate: 55919559201559205595711307SH  
 Date Redispatch Needed: 6/1 - 10/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Summer Shoulder

Reservation	Relief Amount	Aggregate Relief Amount								
1086235	28.0	34								
1086238	5.6	34								
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)	
WFEC	'ANADARKO 138KV'	90	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	34	
WFEC	'ANADARKO 69KV'	76	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	34	
WFEC	'MORLND 138KV'	160	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	34	

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: FT SUPPLY 138/69KV TRANSFORMER CKT 1  
 Limiting Facility: FT SUPPLY 138/69KV TRANSFORMER CKT 1  
 Direction: From->To  
 Line Outage: FT SUPPLY - IODINE 138KV CKT 1  
 Flowgate: 55919559201559205595711307WP  
 Date Redispatch Needed: 12/1/07 - 4/1/08  
 Season Flowgate Identified: 2007 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount								
1086235	28.1	34								
1086238	5.6	34								
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)	
WFEC	'ANADARKO 138KV'	90	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	34	
WFEC	'ANADARKO 69KV'	76	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	34	
WFEC	'MORLND 138KV'	133	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	34	

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: FT SUPPLY 138/69KV TRANSFORMER CKT 1  
 Limiting Facility: FT SUPPLY 138/69KV TRANSFORMER CKT 1  
 Direction: From->To  
 Line Outage: FT SUPPLY - IODINE 138KV CKT 1  
 Flowgate: 55919559201559205595711407FA  
 Date Redispatch Needed: Starting 2007 10/1 - 12/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Fall Peak

Reservation	Relief Amount	Aggregate Relief Amount								
1086235	28.3	34								
1086238	5.7	34								
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)	
WFEC	'ANADARKO 138KV'	51	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	34	
WFEC	'ANADARKO 138KV'	90	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	34	
WFEC	'ANADARKO 69KV'	76	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	34	
WFEC	'MORLND 138KV'	320	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	34	

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: FT SUPPLY 138/69KV TRANSFORMER CKT 1  
 Limiting Facility: FT SUPPLY 138/69KV TRANSFORMER CKT 1  
 Direction: From->To  
 Line Outage: IODINE - MOORELAND 138KV CKT 1  
 Flowgate: 55919559201559575599911207SP  
 Date Redispatch Needed: 6/1/07 - 10/1/07  
 Season Flowgate Identified: 2007 Summer Peak

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

Reservation	Relief Amount	Aggregate Relief Amount								
1086235	24.5	29								
1086238	4.9	29								
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)	
WFEC	'ANADARKO 138KV'	90	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	29	
WFEC	'ANADARKO 69KV'	76	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	29	
WFEC	'MORLND 138KV'	39	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	29	

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: FT SUPPLY 138/69KV TRANSFORMER CKT 1  
 Limiting Facility: FT SUPPLY 138/69KV TRANSFORMER CKT 1  
 Direction: From->To  
 Line Outage: IODINE - MOORELAND 138KV CKT 1  
 Flowgate: 55919559201559575599911207WP  
 Date Redispatch Needed: 12/1/07 - 4/1/08  
 Season Flowgate Identified: 2007 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount								
1086235	25.4	31								
1086238	5.1	31								
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)	
WFEC	'ANADARKO 138KV'	90	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	31	
WFEC	'ANADARKO 69KV'	76	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	31	
WFEC	'MORLND 138KV'	149	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	31	

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: FT SUPPLY 138/69KV TRANSFORMER CKT 1  
 Limiting Facility: FT SUPPLY 138/69KV TRANSFORMER CKT 1  
 Direction: From->To  
 Line Outage: IODINE - MOORELAND 138KV CKT 1  
 Flowgate: 55919559201559575599911307SH  
 Date Redispatch Needed: 6/1 - 10/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Summer Shoulder

Reservation	Relief Amount	Aggregate Relief Amount								
1086235	25.4	30								
1086238	5.1	30								
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)	
WFEC	'ANADARKO 138KV'	90	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	30	
WFEC	'ANADARKO 69KV'	76	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	30	
WFEC	'MORLND 138KV'	160	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	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: FT SUPPLY 138/69KV TRANSFORMER CKT 1  
 Limiting Facility: FT SUPPLY 138/69KV TRANSFORMER CKT 1  
 Direction: From->To  
 Line Outage: IODINE - MOORELAND 138KV CKT 1  
 Flowgate: 55919559201559575599911407FA  
 Date Redispatch Needed: Starting 2007 10/1 - 12/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Fall Peak

Reservation	Relief Amount	Aggregate Relief Amount								
1086235	26.1	31								
1086238	5.2	31								
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)	
WFEC	'ANADARKO 138KV'	51	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	31	
WFEC	'ANADARKO 138KV'	90	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	31	
WFEC	'ANADARKO 69KV'	76	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	31	
WFEC	'MORLND 138KV'	320	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	31	

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: GILL ENERGY CENTER EAST - GILLJCT269.0 69KV CKT 1  
 Limiting Facility: GILL ENERGY CENTER EAST - GILLJCT269.0 69KV CKT 1  
 Direction: From->To  
 Line Outage: GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1  
 Flowgate: 57795577981577955781311107SP  
 Date Redispatch Needed: 6/1/07 - 10/1/07  
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount

Table 5 - 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	Redispatch Amount (MW)
	1090729	0.5	1						
	1090808	0.2	1						
	1090823	0.1	1						
	1090825	0.3	1						
	1090840	0.3	1						
WERE	'CITY OF MULVANE 69KV'	8	-0.08089	WERE	'GILL ENERGY CENTER 69KV'	75	0.23231	-0.3132	4
WERE	'ABILENE ENERGY CENTER 115KV'	6	0.0011	WERE	'GILL ENERGY CENTER 69KV'	75	0.23231	-0.23121	6
WERE	'BPU - CITY OF MCPHERSON 115KV'	11	0.00277	WERE	'GILL ENERGY CENTER 69KV'	75	0.23231	-0.22954	6
WERE	'BROWN COUNTY 115KV'	6	-0.00044	WERE	'GILL ENERGY CENTER 69KV'	75	0.23231	-0.23275	6
WERE	'CHANUTE 69KV'	31	-0.00116	WERE	'GILL ENERGY CENTER 69KV'	75	0.23231	-0.23347	6
WERE	'CITY OF AUGUSTA 69KV'	4	-0.00183	WERE	'GILL ENERGY CENTER 69KV'	75	0.23231	-0.23414	6
WERE	'CITY OF BURLINGTON 69KV'	3	-0.00279	WERE	'GILL ENERGY CENTER 69KV'	75	0.23231	-0.2351	6
WERE	'CITY OF ERIE 69KV'	3	-0.00116	WERE	'GILL ENERGY CENTER 69KV'	75	0.23231	-0.23347	6
WERE	'CITY OF GIRARD 69KV'	6	-0.00082	WERE	'GILL ENERGY CENTER 69KV'	75	0.23231	-0.23313	6
WERE	'CITY OF IOLA 69KV'	13	-0.00106	WERE	'GILL ENERGY CENTER 69KV'	75	0.23231	-0.23337	6
WERE	'CITY OF NEODESHA 69KV'	5	-0.00111	WERE	'GILL ENERGY CENTER 69KV'	75	0.23231	-0.23342	6
WERE	'CITY OF OSAGE CITY 115KV'	11	-0.00043	WERE	'GILL ENERGY CENTER 69KV'	75	0.23231	-0.23274	6
WERE	'CLAY CENTER JUNCTION 115KV'	12	0.00071	WERE	'GILL ENERGY CENTER 69KV'	75	0.23231	-0.2316	6
WERE	'EVANS ENERGY CENTER 138KV'	8	-0.0021	WERE	'GILL ENERGY CENTER 69KV'	75	0.23231	-0.23441	6
WERE	'GETTY 69KV'	35	-0.00434	WERE	'GILL ENERGY CENTER 69KV'	75	0.23231	-0.23665	6
WERE	'HOLTON 115KV'	17	-0.00033	WERE	'GILL ENERGY CENTER 69KV'	75	0.23231	-0.23264	6
WERE	'HUTCHINSON ENERGY CENTER 115KV'	133	0.00372	WERE	'GILL ENERGY CENTER 69KV'	75	0.23231	-0.22859	6
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	0.00373	WERE	'GILL ENERGY CENTER 69KV'	75	0.23231	-0.22858	6
WERE	'JEFFREY ENERGY CENTER 230KV'	24	-0.00004	WERE	'GILL ENERGY CENTER 69KV'	75	0.23231	-0.23235	6
WERE	'JEFFREY ENERGY CENTER 345KV'	42	-0.00005	WERE	'GILL ENERGY CENTER 69KV'	75	0.23231	-0.23236	6
WERE	'LATHAM1234.0 345KV'	150	-0.00303	WERE	'GILL ENERGY CENTER 69KV'	75	0.23231	-0.23534	6
WERE	'LAWRENCE ENERGY CENTER 115KV'	8	-0.00045	WERE	'GILL ENERGY CENTER 69KV'	75	0.23231	-0.23276	6
WERE	'LAWRENCE ENERGY CENTER 230KV'	34	-0.00045	WERE	'GILL ENERGY CENTER 69KV'	75	0.23231	-0.23276	6
WERE	'NEOSHO ENERGY CENTER 138KV'	47	-0.00104	WERE	'GILL ENERGY CENTER 69KV'	75	0.23231	-0.23335	6
WERE	'OXFORD 138KV'	3	0.01288	WERE	'GILL ENERGY CENTER 69KV'	75	0.23231	-0.21943	6
WERE	'SMOKYHIL 230 230KV'	72	0.00238	WERE	'GILL ENERGY CENTER 69KV'	75	0.23231	-0.22993	6
WERE	'SOUTH SENECA 115KV'	5	-0.00028	WERE	'GILL ENERGY CENTER 69KV'	75	0.23231	-0.23259	6
WERE	'ST JOHN 115KV'	8	0.01272	WERE	'GILL ENERGY CENTER 69KV'	75	0.23231	-0.21959	6
WERE	'TECUMSEH ENERGY CENTER 115KV'	3	-0.00033	WERE	'GILL ENERGY CENTER 69KV'	75	0.23231	-0.23264	6
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.00032	WERE	'GILL ENERGY CENTER 69KV'	75	0.23231	-0.23263	6
WERE	'CITY OF MULVANE 69KV'	8	-0.08089	WERE	'CITY OF WELLINGTON 69KV'	41	0.11569	-0.19658	7
WERE	'CITY OF WINFIELD 69KV'	40	0.0258	WERE	'GILL ENERGY CENTER 69KV'	75	0.23231	-0.20651	7
WERE	'CITY OF MULVANE 69KV'	8	-0.08089	WERE	'GILL ENERGY CENTER 138KV'	171	0.07556	-0.15645	9
WERE	'CITY OF MULVANE 69KV'	8	-0.08089	WERE	'WACO 138KV'	18	0.06766	-0.14855	9
WERE	'GETTY 69KV'	35	-0.00434	WERE	'CITY OF WELLINGTON 69KV'	41	0.11569	-0.12003	11
WERE	'LATHAM1234.0 345KV'	150	-0.00303	WERE	'CITY OF WELLINGTON 69KV'	41	0.11569	-0.11872	11
WERE	'ABILENE ENERGY CENTER 115KV'	6	0.0011	WERE	'CITY OF WELLINGTON 69KV'	41	0.11569	-0.11459	12
WERE	'BPU - CITY OF MCPHERSON 115KV'	11	0.00277	WERE	'CITY OF WELLINGTON 69KV'	41	0.11569	-0.11292	12
WERE	'BROWN COUNTY 115KV'	6	-0.00044	WERE	'CITY OF WELLINGTON 69KV'	41	0.11569	-0.11613	12
WERE	'CHANUTE 69KV'	31	-0.00116	WERE	'CITY OF WELLINGTON 69KV'	41	0.11569	-0.11685	12
WERE	'CITY OF GIRARD 69KV'	6	-0.00082	WERE	'CITY OF WELLINGTON 69KV'	41	0.11569	-0.11651	12
WERE	'CITY OF IOLA 69KV'	13	-0.00106	WERE	'CITY OF WELLINGTON 69KV'	41	0.11569	-0.11675	12
WERE	'CITY OF NEODESHA 69KV'	5	-0.00111	WERE	'CITY OF WELLINGTON 69KV'	41	0.11569	-0.1168	12
WERE	'CITY OF OSAGE CITY 115KV'	11	-0.00043	WERE	'CITY OF WELLINGTON 69KV'	41	0.11569	-0.11612	12
WERE	'CLAY CENTER JUNCTION 115KV'	12	0.00071	WERE	'CITY OF WELLINGTON 69KV'	41	0.11569	-0.11498	12
WERE	'EVANS ENERGY CENTER 138KV'	8	-0.0021	WERE	'CITY OF WELLINGTON 69KV'	41	0.11569	-0.11779	12
WERE	'HOLTON 115KV'	17	-0.00033	WERE	'CITY OF WELLINGTON 69KV'	41	0.11569	-0.11602	12
WERE	'HUTCHINSON ENERGY CENTER 115KV'	133	0.00372	WERE	'CITY OF WELLINGTON 69KV'	41	0.11569	-0.11197	12
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	0.00373	WERE	'CITY OF WELLINGTON 69KV'	41	0.11569	-0.11196	12
WERE	'JEFFREY ENERGY CENTER 230KV'	24	-0.00004	WERE	'CITY OF WELLINGTON 69KV'	41	0.11569	-0.11573	12
WERE	'JEFFREY ENERGY CENTER 345KV'	42	-0.00005	WERE	'CITY OF WELLINGTON 69KV'	41	0.11569	-0.11574	12
WERE	'LAWRENCE ENERGY CENTER 115KV'	8	-0.00045	WERE	'CITY OF WELLINGTON 69KV'	41	0.11569	-0.11614	12
WERE	'LAWRENCE ENERGY CENTER 230KV'	34	-0.00045	WERE	'CITY OF WELLINGTON 69KV'	41	0.11569	-0.11614	12
WERE	'NEOSHO ENERGY CENTER 138KV'	47	-0.00104	WERE	'CITY OF WELLINGTON 69KV'	41	0.11569	-0.11673	12
WERE	'SMOKYHIL 230 230KV'	72	0.00238	WERE	'CITY OF WELLINGTON 69KV'	41	0.11569	-0.11331	12
WERE	'SOUTH SENECA 115KV'	5	-0.00028	WERE	'CITY OF WELLINGTON 69KV'	41	0.11569	-0.11597	12
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.00032	WERE	'CITY OF WELLINGTON 69KV'	41	0.11569	-0.11601	12
WERE	'ST JOHN 115KV'	8	0.01272	WERE	'CITY OF WELLINGTON 69KV'	41	0.11569	-0.10297	13
WERE	'CITY OF WINFIELD 69KV'	40	0.0258	WERE	'CITY OF WELLINGTON 69KV'	41	0.11569	-0.08989	15
WERE	'CITY OF MULVANE 69KV'	8	-0.08089	WERE	'BPU - CITY OF MCPHERSON 115KV'	163	0.00277	-0.08366	16
WERE	'CITY OF MULVANE 69KV'	8	-0.08089	WERE	'HUTCHINSON ENERGY CENTER 115KV'	210	0.00372	-0.08461	16
WERE	'CITY OF MULVANE 69KV'	8	-0.08089	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	0.00373	-0.08462	16
WERE	'CITY OF MULVANE 69KV'	8	-0.08089	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.0011	-0.08199	17
WERE	'CITY OF MULVANE 69KV'	8	-0.08089	WERE	'CHANUTE 69KV'	57	-0.00116	-0.07973	17
WERE	'CITY OF MULVANE 69KV'	8	-0.08089	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00183	-0.07906	17
WERE	'CITY OF MULVANE 69KV'	8	-0.08089	WERE	'CITY OF BURLINGTON 69KV'	9	-0.00279	-0.0781	17
WERE	'CITY OF MULVANE 69KV'	8	-0.08089	WERE	'CITY OF ERIE 69KV'	24	-0.00116	-0.07973	17
WERE	'CITY OF MULVANE 69KV'	8	-0.08089	WERE	'CITY OF FREDONIA 69KV'	10	-0.00129	-0.0796	17
WERE	'CITY OF MULVANE 69KV'	8	-0.08089	WERE	'CITY OF IOLA 69KV'	24	-0.00106	-0.07983	17
WERE	'CITY OF MULVANE 69KV'	8	-0.08089	WERE	'CLAY CENTER JUNCTION 115KV'	26	0.00071	-0.0816	17
WERE	'CITY OF MULVANE 69KV'	8	-0.08089	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	-0.00279	-0.0781	17
WERE	'CITY OF MULVANE 69KV'	8	-0.08089	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.0021	-0.07879	17
WERE	'CITY OF MULVANE 69KV'	8	-0.08089	WERE	'HOLTON 115KV'	16	-0.00033	-0.08056	17
WERE	'CITY OF MULVANE 69KV'	8	-0.08089	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00004	-0.08085	17
WERE	'CITY OF MULVANE 69KV'	8	-0.08089	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00005	-0.08084	17
WERE	'CITY OF MULVANE 69KV'	8	-0.08089	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	-0.00045	-0.08044	17
WERE	'CITY OF MULVANE 69KV'	8	-0.08089	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	-0.00045	-0.08044	17
WERE	'CITY OF MULVANE 69KV'	8	-0.08089	WERE	'SOUTH SENECA 115KV'	15	-0.00028	-0.08061	17
WERE	'CITY OF MULVANE 69KV'	8	-0.08089	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00033	-0.08056	17
WERE	'GETTY 69KV'	35	-0.00434	WERE	'GILL ENERGY CENTER 138KV'	171	0.07556	-0.0799	17
WERE	'LATHAM1234.0 345KV'	150	-0.00303	WERE	'GILL ENERGY CENTER 138KV'	171	0.07556	-0.07859	17
WERE	'CHANUTE 69KV'	31	-0.00116	WERE	'GILL ENERGY CENTER 138KV'	171	0.07556	-0.07672	18
WERE	'CITY OF IOLA 69KV'	13	-0.00106	WERE	'GILL ENERGY CENTER 138KV'	171	0.07556	-0.07662	18
WERE	'CITY OF OSAGE CITY 115KV'	11	-0.00043	WERE	'GILL ENERGY CENTER 138KV'	171	0.07556	-0.07599	18
WERE	'CLAY CENTER JUNCTION 115KV'	12	0.00071	WERE	'GILL ENERGY CENTER 138KV'	171	0.07556	-0.07485	18
WERE	'EVANS ENERGY CENTER 138KV'	8	-0.0021	WERE	'GILL ENERGY CENTER 138KV'	171	0.07556	-0.07766	18
WERE	'HOLTON 115KV'	17	-0.00033	WERE	'GILL ENERGY CENTER 138KV'	171	0.07556	-0.07589	18
WERE	'JEFFREY ENERGY CENTER 230KV'	24	-0.00004	WERE	'GILL ENERGY CENTER 138KV'	171	0.07556	-0.0756	18

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'JEFFREY ENERGY CENTER 345KV'	42	-0.00005	WERE	'GILL ENERGY CENTER 138KV'	171	0.07556	-0.07561	18
WERE	'LAWRENCE ENERGY CENTER 115KV'	8	-0.00045	WERE	'GILL ENERGY CENTER 138KV'	171	0.07556	-0.07601	18
WERE	'LAWRENCE ENERGY CENTER 230KV'	34	-0.00045	WERE	'GILL ENERGY CENTER 138KV'	171	0.07556	-0.07601	18
WERE	'NEOSHO ENERGY CENTER 138KV'	47	-0.00104	WERE	'GILL ENERGY CENTER 138KV'	171	0.07556	-0.0766	18
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.00032	WERE	'GILL ENERGY CENTER 138KV'	171	0.07556	-0.07588	18
WERE	'BPU - CITY OF MCPHERSON 115KV'	11	0.00277	WERE	'GILL ENERGY CENTER 138KV'	171	0.07556	-0.07279	19
WERE	'GETTY 69KV'	35	-0.00434	WERE	'WACO 138KV'	18	0.06766	-0.072	19
WERE	'HUTCHINSON ENERGY CENTER 115KV'	133	0.00372	WERE	'GILL ENERGY CENTER 138KV'	171	0.07556	-0.07184	19
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	0.00373	WERE	'GILL ENERGY CENTER 138KV'	171	0.07556	-0.07183	19
WERE	'LATHAM1234.0 345KV'	150	-0.00303	WERE	'WACO 138KV'	18	0.06766	-0.07069	19
WERE	'SMOKYHIL 230 230KV'	72	0.00238	WERE	'GILL ENERGY CENTER 138KV'	171	0.07556	-0.07318	19
WERE	'CHANUTE 69KV'	31	-0.00116	WERE	'WACO 138KV'	18	0.06766	-0.06882	20

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: GILL ENERGY CENTER EAST - GILLJCT269.0 69KV CKT 1  
 Limiting Facility: GILL ENERGY CENTER EAST - GILLJCT269.0 69KV CKT 1  
 Direction: From->To  
 Line Outage: SPP-WERE-36  
 Flowgate: 57795577981SPP-WERE-361107SP  
 Date Redispatch Needed: 6/1/07 - 10/1/07  
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090808	0.2	1
1090823	0.1	1
1090825	0.2	1
1090840	0.2	1

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
WERE	'CITY OF MULVANE 69KV'	8	-0.05366	WERE	'GILL ENERGY CENTER 69KV'	75	0.17502	-0.22868	3
WERE	'ABILENE ENERGY CENTER 115KV'	6	0.00122	WERE	'GILL ENERGY CENTER 69KV'	75	0.17502	-0.1738	4
WERE	'BPU - CITY OF MCPHERSON 115KV'	11	0.00305	WERE	'GILL ENERGY CENTER 69KV'	75	0.17502	-0.17197	4
WERE	'BROWN COUNTY 115KV'	6	-0.00021	WERE	'GILL ENERGY CENTER 69KV'	75	0.17502	-0.17523	4
WERE	'CHANUTE 69KV'	31	-0.00088	WERE	'GILL ENERGY CENTER 69KV'	75	0.17502	-0.1759	4
WERE	'CITY OF AUGUSTA 69KV'	4	-0.00031	WERE	'GILL ENERGY CENTER 69KV'	75	0.17502	-0.17533	4
WERE	'CITY OF BURLINGTON 69KV'	3	-0.0024	WERE	'GILL ENERGY CENTER 69KV'	75	0.17502	-0.17742	4
WERE	'CITY OF ERIE 69KV'	3	-0.00088	WERE	'GILL ENERGY CENTER 69KV'	75	0.17502	-0.1759	4
WERE	'CITY OF GIRARD 69KV'	6	-0.00066	WERE	'GILL ENERGY CENTER 69KV'	75	0.17502	-0.17568	4
WERE	'CITY OF IOLA 69KV'	13	-0.00081	WERE	'GILL ENERGY CENTER 69KV'	75	0.17502	-0.17583	4
WERE	'CITY OF MULVANE 69KV'	8	-0.05366	WERE	'CITY OF WELLINGTON 69KV'	41	0.08843	-0.14209	4
WERE	'CITY OF NEODESHA 69KV'	5	-0.00083	WERE	'GILL ENERGY CENTER 69KV'	75	0.17502	-0.17585	4
WERE	'CITY OF OSAGE CITY 115KV'	11	-0.00051	WERE	'GILL ENERGY CENTER 69KV'	75	0.17502	-0.17553	4
WERE	'CITY OF WINFIELD 69KV'	40	0.02151	WERE	'GILL ENERGY CENTER 69KV'	75	0.17502	-0.15351	4
WERE	'CLAY CENTER JUNCTION 115KV'	12	0.0008	WERE	'GILL ENERGY CENTER 69KV'	75	0.17502	-0.17422	4
WERE	'EVANS ENERGY CENTER 138KV'	8	-0.00504	WERE	'GILL ENERGY CENTER 69KV'	75	0.17502	-0.18006	4
WERE	'GETTY 69KV'	35	-0.00298	WERE	'GILL ENERGY CENTER 69KV'	75	0.17502	-0.178	4
WERE	'HOLTON 115KV'	17	-0.00021	WERE	'GILL ENERGY CENTER 69KV'	75	0.17502	-0.17523	4
WERE	'HUTCHINSON ENERGY CENTER 115KV'	133	0.00409	WERE	'GILL ENERGY CENTER 69KV'	75	0.17502	-0.17093	4
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	0.0041	WERE	'GILL ENERGY CENTER 69KV'	75	0.17502	-0.17092	4
WERE	'JEFFREY ENERGY CENTER 230KV'	24	-0.00001	WERE	'GILL ENERGY CENTER 69KV'	75	0.17502	-0.17503	4
WERE	'JEFFREY ENERGY CENTER 345KV'	42	-0.00002	WERE	'GILL ENERGY CENTER 69KV'	75	0.17502	-0.17504	4
WERE	'LATHAM1234.0 345KV'	150	-0.00231	WERE	'GILL ENERGY CENTER 69KV'	75	0.17502	-0.17733	4
WERE	'LAWRENCE ENERGY CENTER 115KV'	8	-0.00042	WERE	'GILL ENERGY CENTER 69KV'	75	0.17502	-0.17544	4
WERE	'LAWRENCE ENERGY CENTER 230KV'	34	-0.00043	WERE	'GILL ENERGY CENTER 69KV'	75	0.17502	-0.17545	4
WERE	'NEOSHO ENERGY CENTER 138KV'	47	-0.00082	WERE	'GILL ENERGY CENTER 69KV'	75	0.17502	-0.17584	4
WERE	'OXFORD 138KV'	3	0.01321	WERE	'GILL ENERGY CENTER 69KV'	75	0.17502	-0.16181	4
WERE	'SMOKYHIL 230 230KV'	72	0.00263	WERE	'GILL ENERGY CENTER 69KV'	75	0.17502	-0.17239	4
WERE	'SOUTH SENECA 115KV'	5	-0.00006	WERE	'GILL ENERGY CENTER 69KV'	75	0.17502	-0.17508	4
WERE	'ST JOHN 115KV'	8	0.01403	WERE	'GILL ENERGY CENTER 69KV'	75	0.17502	-0.16099	4
WERE	'TECUMSEH ENERGY CENTER 115KV'	3	-0.00032	WERE	'GILL ENERGY CENTER 69KV'	75	0.17502	-0.17534	4
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.0003	WERE	'GILL ENERGY CENTER 69KV'	75	0.17502	-0.17532	4
WERE	'CITY OF MULVANE 69KV'	8	-0.05366	WERE	'GILL ENERGY CENTER 138KV'	171	0.08353	-0.13719	5
WERE	'CITY OF MULVANE 69KV'	8	-0.05366	WERE	'WACO 138KV'	18	0.07452	-0.12818	5
WERE	'ABILENE ENERGY CENTER 115KV'	6	0.00122	WERE	'CITY OF WELLINGTON 69KV'	41	0.08843	-0.08721	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	11	0.00305	WERE	'CITY OF WELLINGTON 69KV'	41	0.08843	-0.08538	7
WERE	'BROWN COUNTY 115KV'	6	-0.00021	WERE	'CITY OF WELLINGTON 69KV'	41	0.08843	-0.08864	7
WERE	'CHANUTE 69KV'	31	-0.00088	WERE	'CITY OF WELLINGTON 69KV'	41	0.08843	-0.08931	7
WERE	'CHANUTE 69KV'	31	-0.00088	WERE	'GILL ENERGY CENTER 138KV'	171	0.08353	-0.08441	7
WERE	'CITY OF AUGUSTA 69KV'	4	-0.00031	WERE	'CITY OF WELLINGTON 69KV'	41	0.08843	-0.08874	7
WERE	'CITY OF BURLINGTON 69KV'	3	-0.0024	WERE	'CITY OF WELLINGTON 69KV'	41	0.08843	-0.09083	7
WERE	'CITY OF BURLINGTON 69KV'	3	-0.0024	WERE	'GILL ENERGY CENTER 138KV'	171	0.08353	-0.08593	7
WERE	'CITY OF ERIE 69KV'	3	-0.00088	WERE	'CITY OF WELLINGTON 69KV'	41	0.08843	-0.08931	7
WERE	'CITY OF ERIE 69KV'	3	-0.00088	WERE	'GILL ENERGY CENTER 138KV'	171	0.08353	-0.08441	7
WERE	'CITY OF GIRARD 69KV'	6	-0.00066	WERE	'CITY OF WELLINGTON 69KV'	41	0.08843	-0.08909	7
WERE	'CITY OF IOLA 69KV'	13	-0.00081	WERE	'CITY OF WELLINGTON 69KV'	41	0.08843	-0.08924	7
WERE	'CITY OF NEODESHA 69KV'	5	-0.00083	WERE	'CITY OF WELLINGTON 69KV'	41	0.08843	-0.08926	7
WERE	'CITY OF OSAGE CITY 115KV'	11	-0.00051	WERE	'CITY OF WELLINGTON 69KV'	41	0.08843	-0.08894	7
WERE	'CLAY CENTER JUNCTION 115KV'	12	0.0008	WERE	'CITY OF WELLINGTON 69KV'	41	0.08843	-0.08763	7
WERE	'EVANS ENERGY CENTER 138KV'	8	-0.00504	WERE	'CITY OF WELLINGTON 69KV'	41	0.08843	-0.09347	7
WERE	'EVANS ENERGY CENTER 138KV'	8	-0.00504	WERE	'GILL ENERGY CENTER 138KV'	171	0.08353	-0.08857	7
WERE	'GETTY 69KV'	35	-0.00298	WERE	'CITY OF WELLINGTON 69KV'	41	0.08843	-0.09141	7
WERE	'GETTY 69KV'	35	-0.00298	WERE	'GILL ENERGY CENTER 138KV'	171	0.08353	-0.08651	7
WERE	'HOLTON 115KV'	17	-0.00021	WERE	'CITY OF WELLINGTON 69KV'	41	0.08843	-0.08864	7
WERE	'JEFFREY ENERGY CENTER 230KV'	24	-0.00001	WERE	'CITY OF WELLINGTON 69KV'	41	0.08843	-0.08844	7
WERE	'JEFFREY ENERGY CENTER 345KV'	42	-0.00002	WERE	'CITY OF WELLINGTON 69KV'	41	0.08843	-0.08845	7
WERE	'LATHAM1234.0 345KV'	150	-0.00231	WERE	'CITY OF WELLINGTON 69KV'	41	0.08843	-0.09074	7
WERE	'LATHAM1234.0 345KV'	150	-0.00231	WERE	'GILL ENERGY CENTER 138KV'	171	0.08353	-0.08584	7
WERE	'LAWRENCE ENERGY CENTER 115KV'	8	-0.00042	WERE	'CITY OF WELLINGTON 69KV'	41	0.08843	-0.08885	7
WERE	'LAWRENCE ENERGY CENTER 230KV'	34	-0.00043	WERE	'CITY OF WELLINGTON 69KV'	41	0.08843	-0.08886	7
WERE	'NEOSHO ENERGY CENTER 138KV'	47	-0.00082	WERE	'CITY OF WELLINGTON 69KV'	41	0.08843	-0.08925	7
WERE	'SMOKYHIL 230 230KV'	72	0.00263	WERE	'CITY OF WELLINGTON 69KV'	41	0.08843	-0.0858	7

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'SOUTH SENECA 115KV'	5	-0.00006	WERE	'CITY OF WELLINGTON 69KV'	41	0.08843	-0.08849	7
WERE	'TECUMSEH ENERGY CENTER 115KV'	3	-0.00032	WERE	'CITY OF WELLINGTON 69KV'	41	0.08843	-0.08875	7
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.0003	WERE	'CITY OF WELLINGTON 69KV'	41	0.08843	-0.08873	7
WERE	'ABILENE ENERGY CENTER 115KV'	6	0.00122	WERE	'GILL ENERGY CENTER 138KV'	171	0.08353	-0.08231	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	11	0.00305	WERE	'GILL ENERGY CENTER 138KV'	171	0.08353	-0.08048	8
WERE	'BROWN COUNTY 115KV'	6	-0.00021	WERE	'GILL ENERGY CENTER 138KV'	171	0.08353	-0.08374	8
WERE	'BROWN COUNTY 115KV'	6	-0.00021	WERE	'WACO 138KV'	18	0.07452	-0.07473	8
WERE	'CHANUTE 69KV'	31	-0.00088	WERE	'WACO 138KV'	18	0.07452	-0.0754	8
WERE	'CITY OF AUGUSTA 69KV'	4	-0.00031	WERE	'GILL ENERGY CENTER 138KV'	171	0.08353	-0.08384	8
WERE	'CITY OF AUGUSTA 69KV'	4	-0.00031	WERE	'WACO 138KV'	18	0.07452	-0.07483	8
WERE	'CITY OF BURLINGTON 69KV'	3	-0.0024	WERE	'WACO 138KV'	18	0.07452	-0.07692	8
WERE	'CITY OF GIRARD 69KV'	6	-0.00066	WERE	'GILL ENERGY CENTER 138KV'	171	0.08353	-0.08419	8
WERE	'CITY OF GIRARD 69KV'	6	-0.00066	WERE	'WACO 138KV'	18	0.07452	-0.07518	8
WERE	'CITY OF IOLA 69KV'	13	-0.00081	WERE	'GILL ENERGY CENTER 138KV'	171	0.08353	-0.08434	8
WERE	'CITY OF IOLA 69KV'	13	-0.00081	WERE	'WACO 138KV'	18	0.07452	-0.07533	8
WERE	'CITY OF NEODESHA 69KV'	5	-0.00083	WERE	'GILL ENERGY CENTER 138KV'	171	0.08353	-0.08436	8
WERE	'CITY OF NEODESHA 69KV'	5	-0.00083	WERE	'WACO 138KV'	18	0.07452	-0.07535	8
WERE	'CITY OF OSAGE CITY 115KV'	11	-0.00051	WERE	'GILL ENERGY CENTER 138KV'	171	0.08353	-0.08404	8
WERE	'CITY OF OSAGE CITY 115KV'	11	-0.00051	WERE	'WACO 138KV'	18	0.07452	-0.07503	8
WERE	'CLAY CENTER JUNCTION 115KV'	12	0.0008	WERE	'GILL ENERGY CENTER 138KV'	171	0.08353	-0.08273	8
WERE	'EVANS ENERGY CENTER 138KV'	8	-0.00504	WERE	'WACO 138KV'	18	0.07452	-0.07956	8
WERE	'GETTY 69KV'	35	-0.00298	WERE	'WACO 138KV'	18	0.07452	-0.0775	8
WERE	'HOLTON 115KV'	17	-0.00021	WERE	'GILL ENERGY CENTER 138KV'	171	0.08353	-0.08374	8
WERE	'HOLTON 115KV'	17	-0.00021	WERE	'WACO 138KV'	18	0.07452	-0.07473	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	133	0.00409	WERE	'CITY OF WELLINGTON 69KV'	41	0.08843	-0.08434	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	133	0.00409	WERE	'GILL ENERGY CENTER 138KV'	171	0.08353	-0.07944	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	0.0041	WERE	'CITY OF WELLINGTON 69KV'	41	0.08843	-0.08433	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	0.0041	WERE	'GILL ENERGY CENTER 138KV'	171	0.08353	-0.07943	8
WERE	'JEFFREY ENERGY CENTER 230KV'	24	-0.00001	WERE	'GILL ENERGY CENTER 138KV'	171	0.08353	-0.08354	8
WERE	'JEFFREY ENERGY CENTER 230KV'	24	-0.00001	WERE	'WACO 138KV'	18	0.07452	-0.07453	8
WERE	'JEFFREY ENERGY CENTER 345KV'	42	-0.00002	WERE	'GILL ENERGY CENTER 138KV'	171	0.08353	-0.08355	8
WERE	'JEFFREY ENERGY CENTER 345KV'	42	-0.00002	WERE	'WACO 138KV'	18	0.07452	-0.07454	8
WERE	'LATHAM1234.0 345KV'	150	-0.00231	WERE	'WACO 138KV'	18	0.07452	-0.07683	8
WERE	'LAWRENCE ENERGY CENTER 115KV'	8	-0.00042	WERE	'GILL ENERGY CENTER 138KV'	171	0.08353	-0.08395	8
WERE	'LAWRENCE ENERGY CENTER 115KV'	8	-0.00042	WERE	'WACO 138KV'	18	0.07452	-0.07494	8
WERE	'LAWRENCE ENERGY CENTER 230KV'	34	-0.00043	WERE	'GILL ENERGY CENTER 138KV'	171	0.08353	-0.08396	8
WERE	'LAWRENCE ENERGY CENTER 230KV'	34	-0.00043	WERE	'WACO 138KV'	18	0.07452	-0.07495	8
WERE	'NEOSHO ENERGY CENTER 138KV'	47	-0.00082	WERE	'GILL ENERGY CENTER 138KV'	171	0.08353	-0.08435	8

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: GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1  
 Limiting Facility: GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1  
 Direction: From->To  
 Line Outage: GILL ENERGY CENTER EAST - GILLJCT269.0 69KV CKT 1  
 Flowgate: 57795578131577955779811107SP  
 Date Redispatch Needed: 6/1/07 - 10/1/07  
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090729	0.5	1
1090808	0.2	1
1090823	0.1	1
1090825	0.2	1
1090840	0.2	1

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
WERE	'CITY OF MULVANE 69KV'	8	-0.08366	WERE	'GILL ENERGY CENTER 69KV'	75	0.19944	-0.2831	4
WERE	'ABILENE ENERGY CENTER 115KV'	6	0.00103	WERE	'GILL ENERGY CENTER 69KV'	75	0.19944	-0.19841	6
WERE	'BPU - CITY OF MCPHERSON 115KV'	11	0.00248	WERE	'GILL ENERGY CENTER 69KV'	75	0.19944	-0.19696	6
WERE	'BROWN COUNTY 115KV'	6	-0.00038	WERE	'GILL ENERGY CENTER 69KV'	75	0.19944	-0.19982	6
WERE	'CHANUTE 69KV'	31	-0.00108	WERE	'GILL ENERGY CENTER 69KV'	75	0.19944	-0.20052	6
WERE	'CITY OF AUGUSTA 69KV'	4	-0.00208	WERE	'GILL ENERGY CENTER 69KV'	75	0.19944	-0.20152	6
WERE	'CITY OF BURLINGTON 69KV'	3	-0.00246	WERE	'GILL ENERGY CENTER 69KV'	75	0.19944	-0.2019	6
WERE	'CITY OF ERIE 69KV'	3	-0.00108	WERE	'GILL ENERGY CENTER 69KV'	75	0.19944	-0.20052	6
WERE	'CITY OF GIRARD 69KV'	6	-0.00075	WERE	'GILL ENERGY CENTER 69KV'	75	0.19944	-0.20019	6
WERE	'CITY OF IOLA 69KV'	13	-0.00098	WERE	'GILL ENERGY CENTER 69KV'	75	0.19944	-0.20042	6
WERE	'CITY OF MULVANE 69KV'	8	-0.08366	WERE	'CITY OF WELLINGTON 69KV'	41	0.09902	-0.18268	6
WERE	'CITY OF NEODESHA 69KV'	5	-0.00104	WERE	'GILL ENERGY CENTER 69KV'	75	0.19944	-0.20048	6
WERE	'CITY OF OSAGE CITY 115KV'	11	-0.00028	WERE	'GILL ENERGY CENTER 69KV'	75	0.19944	-0.19972	6
WERE	'CLAY CENTER JUNCTION 115KV'	12	0.0007	WERE	'GILL ENERGY CENTER 69KV'	75	0.19944	-0.19874	6
WERE	'EVANS ENERGY CENTER 138KV'	8	-0.00092	WERE	'GILL ENERGY CENTER 69KV'	75	0.19944	-0.20036	6
WERE	'GETTY 69KV'	35	-0.00411	WERE	'GILL ENERGY CENTER 69KV'	75	0.19944	-0.20355	6
WERE	'HOLTON 115KV'	17	-0.00026	WERE	'GILL ENERGY CENTER 69KV'	75	0.19944	-0.1997	6
WERE	'HUTCHINSON ENERGY CENTER 115KV'	133	0.0033	WERE	'GILL ENERGY CENTER 69KV'	75	0.19944	-0.19614	6
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	0.00331	WERE	'GILL ENERGY CENTER 69KV'	75	0.19944	-0.19613	6
WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.00004	WERE	'GILL ENERGY CENTER 69KV'	75	0.19944	-0.1994	6
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.00003	WERE	'GILL ENERGY CENTER 69KV'	75	0.19944	-0.19941	6
WERE	'LATHAM1234.0 345KV'	150	-0.00275	WERE	'GILL ENERGY CENTER 69KV'	75	0.19944	-0.20219	6
WERE	'LAWRENCE ENERGY CENTER 115KV'	8	-0.00034	WERE	'GILL ENERGY CENTER 69KV'	75	0.19944	-0.19978	6
WERE	'LAWRENCE ENERGY CENTER 230KV'	34	-0.00033	WERE	'GILL ENERGY CENTER 69KV'	75	0.19944	-0.19977	6
WERE	'NEOSHO ENERGY CENTER 138KV'	47	-0.00096	WERE	'GILL ENERGY CENTER 69KV'	75	0.19944	-0.2004	6
WERE	'OXFORD 138KV'	3	0.01024	WERE	'GILL ENERGY CENTER 69KV'	75	0.19944	-0.1892	6
WERE	'SMOKYHIL 230 230KV'	72	0.00214	WERE	'GILL ENERGY CENTER 69KV'	75	0.19944	-0.1973	6
WERE	'SOUTH SENECA 115KV'	5	-0.00024	WERE	'GILL ENERGY CENTER 69KV'	75	0.19944	-0.19968	6
WERE	'ST JOHN 115KV'	8	0.01112	WERE	'GILL ENERGY CENTER 69KV'	75	0.19944	-0.18832	6
WERE	'TECUMSEH ENERGY CENTER 115KV'	3	-0.00022	WERE	'GILL ENERGY CENTER 69KV'	75	0.19944	-0.19966	6
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.00021	WERE	'GILL ENERGY CENTER 69KV'	75	0.19944	-0.19965	6
WERE	'CITY OF WINFIELD 69KV'	40	0.02161	WERE	'GILL ENERGY CENTER 69KV'	75	0.19944	-0.17783	7
WERE	'CITY OF MULVANE 69KV'	8	-0.08366	WERE	'GILL ENERGY CENTER 138KV'	171	0.0658	-0.14946	8
WERE	'CITY OF MULVANE 69KV'	8	-0.08366	WERE	'WACO 138KV'	18	0.05901	-0.14267	8
WERE	'GETTY 69KV'	35	-0.00411	WERE	'CITY OF WELLINGTON 69KV'	41	0.09902	-0.10313	11



Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'ABILENE ENERGY CENTER 115KV'	6	0.00103	WERE	'CITY OF WELLINGTON 69KV'	41	0.09902	-0.09799	12
WERE	'BPU - CITY OF MCPHERSON 115KV'	11	0.00248	WERE	'CITY OF WELLINGTON 69KV'	41	0.09902	-0.09654	12
WERE	'BROWN COUNTY 115KV'	6	-0.00038	WERE	'CITY OF WELLINGTON 69KV'	41	0.09902	-0.0994	12
WERE	'CHANUTE 69KV'	31	-0.00108	WERE	'CITY OF WELLINGTON 69KV'	41	0.09902	-0.1001	12
WERE	'CITY OF GIRARD 69KV'	6	-0.00075	WERE	'CITY OF WELLINGTON 69KV'	41	0.09902	-0.09977	12
WERE	'CITY OF IOLA 69KV'	13	-0.00098	WERE	'CITY OF WELLINGTON 69KV'	41	0.09902	-0.1	12
WERE	'CITY OF NEODESHA 69KV'	5	-0.00104	WERE	'CITY OF WELLINGTON 69KV'	41	0.09902	-0.10006	12
WERE	'CITY OF OSAGE CITY 115KV'	11	-0.00028	WERE	'CITY OF WELLINGTON 69KV'	41	0.09902	-0.0993	12
WERE	'CLAY CENTER JUNCTION 115KV'	12	0.0007	WERE	'CITY OF WELLINGTON 69KV'	41	0.09902	-0.09832	12
WERE	'EVANS ENERGY CENTER 138KV'	8	-0.00092	WERE	'CITY OF WELLINGTON 69KV'	41	0.09902	-0.09994	12
WERE	'HOLTON 115KV'	17	-0.00026	WERE	'CITY OF WELLINGTON 69KV'	41	0.09902	-0.09928	12
WERE	'HUTCHINSON ENERGY CENTER 115KV'	133	0.0033	WERE	'CITY OF WELLINGTON 69KV'	41	0.09902	-0.09572	12
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	0.00331	WERE	'CITY OF WELLINGTON 69KV'	41	0.09902	-0.09571	12
WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.00004	WERE	'CITY OF WELLINGTON 69KV'	41	0.09902	-0.09898	12
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.00003	WERE	'CITY OF WELLINGTON 69KV'	41	0.09902	-0.09899	12
WERE	'LATHAM1234.0 345KV'	150	-0.00275	WERE	'CITY OF WELLINGTON 69KV'	41	0.09902	-0.10177	12
WERE	'LAWRENCE ENERGY CENTER 115KV'	8	-0.00034	WERE	'CITY OF WELLINGTON 69KV'	41	0.09902	-0.09936	12
WERE	'LAWRENCE ENERGY CENTER 230KV'	34	-0.00033	WERE	'CITY OF WELLINGTON 69KV'	41	0.09902	-0.09935	12
WERE	'NEOSHO ENERGY CENTER 138KV'	47	-0.00096	WERE	'CITY OF WELLINGTON 69KV'	41	0.09902	-0.09998	12
WERE	'SMOKYHIL 230 230KV'	72	0.00214	WERE	'CITY OF WELLINGTON 69KV'	41	0.09902	-0.09688	12
WERE	'SOUTH SENECA 115KV'	5	-0.00024	WERE	'CITY OF WELLINGTON 69KV'	41	0.09902	-0.09926	12
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.00021	WERE	'CITY OF WELLINGTON 69KV'	41	0.09902	-0.09923	12
WERE	'CITY OF MULVANE 69KV'	8	-0.08366	WERE	'HUTCHINSON ENERGY CENTER 115KV'	210	0.0033	-0.08696	13
WERE	'CITY OF MULVANE 69KV'	8	-0.08366	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	0.00331	-0.08697	13
WERE	'ST JOHN 115KV'	8	0.01112	WERE	'CITY OF WELLINGTON 69KV'	41	0.09902	-0.0879	13
WERE	'CITY OF MULVANE 69KV'	8	-0.08366	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.00103	-0.08469	14
WERE	'CITY OF MULVANE 69KV'	8	-0.08366	WERE	'BPU - CITY OF MCPHERSON 115KV'	163	0.00248	-0.08614	14
WERE	'CITY OF MULVANE 69KV'	8	-0.08366	WERE	'CHANUTE 69KV'	57	-0.00108	-0.08258	14
WERE	'CITY OF MULVANE 69KV'	8	-0.08366	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00208	-0.08158	14
WERE	'CITY OF MULVANE 69KV'	8	-0.08366	WERE	'CITY OF BURLINGTON 69KV'	9	-0.00246	-0.0812	14
WERE	'CITY OF MULVANE 69KV'	8	-0.08366	WERE	'CITY OF ERIE 69KV'	24	-0.00108	-0.08258	14
WERE	'CITY OF MULVANE 69KV'	8	-0.08366	WERE	'CITY OF FREDONIA 69KV'	10	-0.00121	-0.08245	14
WERE	'CITY OF MULVANE 69KV'	8	-0.08366	WERE	'CITY OF GIRARD 69KV'	5	-0.00075	-0.08291	14
WERE	'CITY OF MULVANE 69KV'	8	-0.08366	WERE	'CITY OF IOLA 69KV'	24	-0.00098	-0.08268	14
WERE	'CITY OF MULVANE 69KV'	8	-0.08366	WERE	'CLAY CENTER JUNCTION 115KV'	26	0.0007	-0.08436	14
WERE	'CITY OF MULVANE 69KV'	8	-0.08366	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	-0.00246	-0.0812	14
WERE	'CITY OF MULVANE 69KV'	8	-0.08366	WERE	'EVANS ENERGY CENTER 138KV'	565	-0.00092	-0.08274	14
WERE	'CITY OF MULVANE 69KV'	8	-0.08366	WERE	'HOLTON 115KV'	16	-0.00026	-0.0834	14
WERE	'CITY OF MULVANE 69KV'	8	-0.08366	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00004	-0.0837	14
WERE	'CITY OF MULVANE 69KV'	8	-0.08366	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00003	-0.08369	14
WERE	'CITY OF MULVANE 69KV'	8	-0.08366	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	-0.00034	-0.08332	14
WERE	'CITY OF MULVANE 69KV'	8	-0.08366	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	-0.00033	-0.08333	14
WERE	'CITY OF MULVANE 69KV'	8	-0.08366	WERE	'SOUTH SENECA 115KV'	15	-0.00024	-0.08342	14
WERE	'CITY OF MULVANE 69KV'	8	-0.08366	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00022	-0.08344	14
WERE	'CITY OF WINFIELD 69KV'	40	0.02161	WERE	'CITY OF WELLINGTON 69KV'	41	0.09902	-0.07741	15
WERE	'GETTY 69KV'	35	-0.00411	WERE	'GILL ENERGY CENTER 138KV'	171	0.0658	-0.06991	17
WERE	'LATHAM1234.0 345KV'	150	-0.00275	WERE	'GILL ENERGY CENTER 138KV'	171	0.0658	-0.06855	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	11	0.00248	WERE	'GILL ENERGY CENTER 138KV'	171	0.0658	-0.06332	18
WERE	'CHANUTE 69KV'	31	-0.00108	WERE	'GILL ENERGY CENTER 138KV'	171	0.0658	-0.06688	18
WERE	'CITY OF IOLA 69KV'	13	-0.00098	WERE	'GILL ENERGY CENTER 138KV'	171	0.0658	-0.06678	18
WERE	'CITY OF OSAGE CITY 115KV'	11	-0.00028	WERE	'GILL ENERGY CENTER 138KV'	171	0.0658	-0.06608	18
WERE	'CLAY CENTER JUNCTION 115KV'	12	0.0007	WERE	'GILL ENERGY CENTER 138KV'	171	0.0658	-0.0651	18
WERE	'EVANS ENERGY CENTER 138KV'	8	-0.00092	WERE	'GILL ENERGY CENTER 138KV'	171	0.0658	-0.06672	18
WERE	'HOLTON 115KV'	17	-0.00026	WERE	'GILL ENERGY CENTER 138KV'	171	0.0658	-0.06606	18
WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.00004	WERE	'GILL ENERGY CENTER 138KV'	171	0.0658	-0.06576	18
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.00003	WERE	'GILL ENERGY CENTER 138KV'	171	0.0658	-0.06577	18
WERE	'LAWRENCE ENERGY CENTER 115KV'	8	-0.00034	WERE	'GILL ENERGY CENTER 138KV'	171	0.0658	-0.06614	18
WERE	'LAWRENCE ENERGY CENTER 230KV'	34	-0.00033	WERE	'GILL ENERGY CENTER 138KV'	171	0.0658	-0.06613	18
WERE	'NEOSHO ENERGY CENTER 138KV'	47	-0.00096	WERE	'GILL ENERGY CENTER 138KV'	171	0.0658	-0.06676	18
WERE	'SMOKYHIL 230 230KV'	72	0.00214	WERE	'GILL ENERGY CENTER 138KV'	171	0.0658	-0.06366	18
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.00021	WERE	'GILL ENERGY CENTER 138KV'	171	0.0658	-0.06601	18
WERE	'CHANUTE 69KV'	31	-0.00108	WERE	'WACO 138KV'	18	0.05901	-0.06009	19
WERE	'GETTY 69KV'	35	-0.00411	WERE	'WACO 138KV'	18	0.05901	-0.06312	19
WERE	'HUTCHINSON ENERGY CENTER 115KV'	133	0.0033	WERE	'GILL ENERGY CENTER 138KV'	171	0.0658	-0.0625	19
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	0.00331	WERE	'GILL ENERGY CENTER 138KV'	171	0.0658	-0.06249	19

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: GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1  
 Limiting Facility: GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1  
 Direction: From->To  
 Line Outage: GILLJCT269.0 - OATVILLE 69KV CKT 1  
 Flowgate: 57795578131577985782511107SP  
 Date Redispatch Needed: 6/1/07 - 10/1/07  
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090808	0.1	1
1090823	0.1	1
1090825	0.2	1
1090840	0.2	1

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
WERE	'CITY OF MULVANE 69KV'	8	-0.09775	WERE	'GILL ENERGY CENTER 69KV'	75	0.15411	-0.25186	2
WERE	'CITY OF MULVANE 69KV'	8	-0.09775	WERE	'CITY OF WELLINGTON 69KV'	41	0.07581	-0.17356	3
WERE	'GETTY 69KV'	35	-0.00408	WERE	'GILL ENERGY CENTER 69KV'	75	0.15411	-0.15819	3
WERE	'ABILENE ENERGY CENTER 115KV'	6	0.00101	WERE	'GILL ENERGY CENTER 69KV'	75	0.15411	-0.1531	4
WERE	'BPU - CITY OF MCPHERSON 115KV'	11	0.00216	WERE	'GILL ENERGY CENTER 69KV'	75	0.15411	-0.15195	4
WERE	'BROWN COUNTY 115KV'	6	-0.0003	WERE	'GILL ENERGY CENTER 69KV'	75	0.15411	-0.15441	4
WERE	'CHANUTE 69KV'	31	-0.00103	WERE	'GILL ENERGY CENTER 69KV'	75	0.15411	-0.15514	4
WERE	'CITY OF AUGUSTA 69KV'	4	-0.00278	WERE	'GILL ENERGY CENTER 69KV'	75	0.15411	-0.15689	4
WERE	'CITY OF BURLINGTON 69KV'	3	-0.00206	WERE	'GILL ENERGY CENTER 69KV'	75	0.15411	-0.15617	4

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'CITY OF ERIE 69KV'	3	-0.00103	WERE	'GILL ENERGY CENTER 69KV'	75	0.15411	-0.15514	4
WERE	'CITY OF GIRARD 69KV'	6	-0.00069	WERE	'GILL ENERGY CENTER 69KV'	75	0.15411	-0.1548	4
WERE	'CITY OF IOLA 69KV'	13	-0.00091	WERE	'GILL ENERGY CENTER 69KV'	75	0.15411	-0.15502	4
WERE	'CITY OF MULVANE 69KV'	8	-0.09775	WERE	'GILL ENERGY CENTER 138KV'	171	0.05302	-0.15077	4
WERE	'CITY OF MULVANE 69KV'	8	-0.09775	WERE	'WACO 138KV'	18	0.04776	-0.14551	4
WERE	'CITY OF NEODESHA 69KV'	5	-0.00102	WERE	'GILL ENERGY CENTER 69KV'	75	0.15411	-0.15513	4
WERE	'CITY OF OSAGE CITY 115KV'	11	-0.00001	WERE	'GILL ENERGY CENTER 69KV'	75	0.15411	-0.15412	4
WERE	'CITY OF WINFIELD 69KV'	40	0.01545	WERE	'GILL ENERGY CENTER 69KV'	75	0.15411	-0.13866	4
WERE	'CLAY CENTER JUNCTION 115KV'	12	0.00074	WERE	'GILL ENERGY CENTER 69KV'	75	0.15411	-0.15337	4
WERE	'EVANS ENERGY CENTER 138KV'	8	0.00134	WERE	'GILL ENERGY CENTER 69KV'	75	0.15411	-0.15277	4
WERE	'HOLTON 115KV'	17	-0.00013	WERE	'GILL ENERGY CENTER 69KV'	75	0.15411	-0.15424	4
WERE	'HUTCHINSON ENERGY CENTER 115KV'	133	0.00282	WERE	'GILL ENERGY CENTER 69KV'	75	0.15411	-0.15129	4
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	0.00282	WERE	'GILL ENERGY CENTER 69KV'	75	0.15411	-0.15129	4
WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.00019	WERE	'GILL ENERGY CENTER 69KV'	75	0.15411	-0.15392	4
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.00018	WERE	'GILL ENERGY CENTER 69KV'	75	0.15411	-0.15393	4
WERE	'LATHAM1234.0 345KV'	150	-0.00249	WERE	'GILL ENERGY CENTER 69KV'	75	0.15411	-0.1566	4
WERE	'LAWRENCE ENERGY CENTER 115KV'	8	-0.00014	WERE	'GILL ENERGY CENTER 69KV'	75	0.15411	-0.15425	4
WERE	'LAWRENCE ENERGY CENTER 230KV'	34	-0.00012	WERE	'GILL ENERGY CENTER 69KV'	75	0.15411	-0.15423	4
WERE	'NEOSHO ENERGY CENTER 138KV'	47	-0.00089	WERE	'GILL ENERGY CENTER 69KV'	75	0.15411	-0.155	4
WERE	'OXFORD 138KV'	3	0.00601	WERE	'GILL ENERGY CENTER 69KV'	75	0.15411	-0.1481	4
WERE	'SMOKYHIL 230 230KV'	72	0.00188	WERE	'GILL ENERGY CENTER 69KV'	75	0.15411	-0.15223	4
WERE	'SOUTH SENECA 115KV'	5	-0.00017	WERE	'GILL ENERGY CENTER 69KV'	75	0.15411	-0.15428	4
WERE	'ST JOHN 115KV'	8	0.00908	WERE	'GILL ENERGY CENTER 69KV'	75	0.15411	-0.14503	4
WERE	'TECUMSEH ENERGY CENTER 115KV'	3	-0.00002	WERE	'GILL ENERGY CENTER 69KV'	75	0.15411	-0.15413	4
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.00001	WERE	'GILL ENERGY CENTER 69KV'	75	0.15411	-0.15412	4
WERE	'CITY OF MULVANE 69KV'	8	-0.09775	WERE	'HUTCHINSON ENERGY CENTER 115KV'	210	0.00282	-0.10057	5
WERE	'CITY OF MULVANE 69KV'	8	-0.09775	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	0.00282	-0.10057	5
WERE	'GILL ENERGY CENTER 138KV'	2	0.05302	WERE	'GILL ENERGY CENTER 69KV'	75	0.15411	-0.10109	5
WERE	'CITY OF MULVANE 69KV'	8	-0.09775	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.00101	-0.09876	6
WERE	'CITY OF MULVANE 69KV'	8	-0.09775	WERE	'BPU - CITY OF MCPHERSON 115KV'	163	0.00216	-0.09991	6
WERE	'CITY OF MULVANE 69KV'	8	-0.09775	WERE	'CHANUTE 69KV'	57	-0.00103	-0.09672	6
WERE	'CITY OF MULVANE 69KV'	8	-0.09775	WERE	'CITY OF AUGUSTA 69KV'	24	-0.00278	-0.09497	6
WERE	'CITY OF MULVANE 69KV'	8	-0.09775	WERE	'CITY OF BURLINGTON 69KV'	9	-0.00206	-0.09569	6
WERE	'CITY OF MULVANE 69KV'	8	-0.09775	WERE	'CITY OF ERIE 69KV'	24	-0.00103	-0.09672	6
WERE	'CITY OF MULVANE 69KV'	8	-0.09775	WERE	'CITY OF FREDONIA 69KV'	10	-0.00117	-0.09658	6
WERE	'CITY OF MULVANE 69KV'	8	-0.09775	WERE	'CITY OF GIRARD 69KV'	5	-0.00069	-0.09706	6
WERE	'CITY OF MULVANE 69KV'	8	-0.09775	WERE	'CITY OF IOLA 69KV'	24	-0.00091	-0.09684	6
WERE	'CITY OF MULVANE 69KV'	8	-0.09775	WERE	'CLAY CENTER JUNCTION 115KV'	26	0.00074	-0.09849	6
WERE	'CITY OF MULVANE 69KV'	8	-0.09775	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	-0.00206	-0.09569	6
WERE	'CITY OF MULVANE 69KV'	8	-0.09775	WERE	'EVANS ENERGY CENTER 138KV'	565	0.00134	-0.09909	6
WERE	'CITY OF MULVANE 69KV'	8	-0.09775	WERE	'HOLTON 115KV'	16	-0.00013	-0.09762	6
WERE	'CITY OF MULVANE 69KV'	8	-0.09775	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00019	-0.09794	6
WERE	'CITY OF MULVANE 69KV'	8	-0.09775	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00018	-0.09793	6
WERE	'CITY OF MULVANE 69KV'	8	-0.09775	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	-0.00014	-0.09761	6
WERE	'CITY OF MULVANE 69KV'	8	-0.09775	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	-0.00012	-0.09763	6
WERE	'CITY OF MULVANE 69KV'	8	-0.09775	WERE	'SOUTH SENECA 115KV'	15	-0.00017	-0.09758	6
WERE	'CITY OF MULVANE 69KV'	8	-0.09775	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	-0.00002	-0.09773	6
WERE	'ABILENE ENERGY CENTER 115KV'	6	0.00101	WERE	'CITY OF WELLINGTON 69KV'	41	0.07581	-0.0748	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	11	0.00216	WERE	'CITY OF WELLINGTON 69KV'	41	0.07581	-0.07365	7
WERE	'BROWN COUNTY 115KV'	6	-0.0003	WERE	'CITY OF WELLINGTON 69KV'	41	0.07581	-0.07611	7
WERE	'CHANUTE 69KV'	31	-0.00103	WERE	'CITY OF WELLINGTON 69KV'	41	0.07581	-0.07684	7
WERE	'CITY OF AUGUSTA 69KV'	4	-0.00278	WERE	'CITY OF WELLINGTON 69KV'	41	0.07581	-0.07859	7
WERE	'CITY OF BURLINGTON 69KV'	3	-0.00206	WERE	'CITY OF WELLINGTON 69KV'	41	0.07581	-0.07787	7
WERE	'CITY OF ERIE 69KV'	3	-0.00103	WERE	'CITY OF WELLINGTON 69KV'	41	0.07581	-0.07684	7
WERE	'CITY OF GIRARD 69KV'	6	-0.00069	WERE	'CITY OF WELLINGTON 69KV'	41	0.07581	-0.0765	7
WERE	'CITY OF IOLA 69KV'	13	-0.00091	WERE	'CITY OF WELLINGTON 69KV'	41	0.07581	-0.07672	7
WERE	'CITY OF NEODESHA 69KV'	5	-0.00102	WERE	'CITY OF WELLINGTON 69KV'	41	0.07581	-0.07683	7
WERE	'CITY OF OSAGE CITY 115KV'	11	-0.00001	WERE	'CITY OF WELLINGTON 69KV'	41	0.07581	-0.07582	7
WERE	'CLAY CENTER JUNCTION 115KV'	12	0.00074	WERE	'CITY OF WELLINGTON 69KV'	41	0.07581	-0.07507	7
WERE	'EVANS ENERGY CENTER 138KV'	8	0.00134	WERE	'CITY OF WELLINGTON 69KV'	41	0.07581	-0.07447	7
WERE	'GETTY 69KV'	35	-0.00408	WERE	'CITY OF WELLINGTON 69KV'	41	0.07581	-0.07989	7
WERE	'HOLTON 115KV'	17	-0.00013	WERE	'CITY OF WELLINGTON 69KV'	41	0.07581	-0.07594	7
WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.00019	WERE	'CITY OF WELLINGTON 69KV'	41	0.07581	-0.07562	7
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.00018	WERE	'CITY OF WELLINGTON 69KV'	41	0.07581	-0.07563	7
WERE	'LATHAM1234.0 345KV'	150	-0.00249	WERE	'CITY OF WELLINGTON 69KV'	41	0.07581	-0.0783	7
WERE	'LAWRENCE ENERGY CENTER 115KV'	8	-0.00014	WERE	'CITY OF WELLINGTON 69KV'	41	0.07581	-0.07595	7
WERE	'LAWRENCE ENERGY CENTER 230KV'	34	-0.00012	WERE	'CITY OF WELLINGTON 69KV'	41	0.07581	-0.07593	7
WERE	'NEOSHO ENERGY CENTER 138KV'	47	-0.00089	WERE	'CITY OF WELLINGTON 69KV'	41	0.07581	-0.0767	7
WERE	'SMOKYHIL 230 230KV'	72	0.00188	WERE	'CITY OF WELLINGTON 69KV'	41	0.07581	-0.07393	7
WERE	'SOUTH SENECA 115KV'	5	-0.00017	WERE	'CITY OF WELLINGTON 69KV'	41	0.07581	-0.07598	7
WERE	'TECUMSEH ENERGY CENTER 115KV'	3	-0.00002	WERE	'CITY OF WELLINGTON 69KV'	41	0.07581	-0.07583	7
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.00001	WERE	'CITY OF WELLINGTON 69KV'	41	0.07581	-0.07582	7
WERE	'HUTCHINSON ENERGY CENTER 115KV'	133	0.00282	WERE	'CITY OF WELLINGTON 69KV'	41	0.07581	-0.07299	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	0.00282	WERE	'CITY OF WELLINGTON 69KV'	41	0.07581	-0.07299	8
WERE	'OXFORD 138KV'	3	0.00601	WERE	'CITY OF WELLINGTON 69KV'	41	0.07581	-0.0698	8
WERE	'ST JOHN 115KV'	8	0.00908	WERE	'CITY OF WELLINGTON 69KV'	41	0.07581	-0.06673	8
WERE	'CITY OF WINFIELD 69KV'	40	0.01545	WERE	'CITY OF WELLINGTON 69KV'	41	0.07581	-0.06036	9
WERE	'BROWN COUNTY 115KV'	6	-0.0003	WERE	'GILL ENERGY CENTER 138KV'	171	0.05302	-0.05332	10
WERE	'CHANUTE 69KV'	31	-0.00103	WERE	'GILL ENERGY CENTER 138KV'	171	0.05302	-0.05405	10
WERE	'CITY OF AUGUSTA 69KV'	4	-0.00278	WERE	'GILL ENERGY CENTER 138KV'	171	0.05302	-0.0558	10
WERE	'CITY OF BURLINGTON 69KV'	3	-0.00206	WERE	'GILL ENERGY CENTER 138KV'	171	0.05302	-0.05508	10
WERE	'CITY OF GIRARD 69KV'	6	-0.00069	WERE	'GILL ENERGY CENTER 138KV'	171	0.05302	-0.05371	10
WERE	'CITY OF IOLA 69KV'	13	-0.00091	WERE	'GILL ENERGY CENTER 138KV'	171	0.05302	-0.05393	10
WERE	'CITY OF NEODESHA 69KV'	5	-0.00102	WERE	'GILL ENERGY CENTER 138KV'	171	0.05302	-0.05404	10
WERE	'CITY OF OSAGE CITY 115KV'	11	-0.00001	WERE	'GILL ENERGY CENTER 138KV'	171	0.05302	-0.05303	10
WERE	'GETTY 69KV'	35	-0.00408	WERE	'GILL ENERGY CENTER 138KV'	171	0.05302	-0.0571	10
WERE	'HOLTON 115KV'	17	-0.00013	WERE	'GILL ENERGY CENTER 138KV'	171	0.05302	-0.05315	10
WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.00019	WERE	'GILL ENERGY CENTER 138KV'	171	0.05302	-0.05283	10
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.00018	WERE	'GILL ENERGY CENTER 138KV'	171	0.05302	-0.05284	10
WERE	'LATHAM1234.0 345KV'	150	-0.00249	WERE	'GILL ENERGY CENTER 138KV'	171	0.05302	-0.05551	10
WERE	'LAWRENCE ENERGY CENTER 115KV'	8	-0.00014	WERE	'GILL ENERGY CENTER 138KV'	171	0.05302	-0.05316	10

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

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

Upgrade: GREENSBURG - JUDSON LARGE 115KV CKT 1  
 Limiting Facility: GREENSBURG - JUDSON LARGE 115KV CKT 1  
 Direction: To->From  
 Line Outage: MULLERGREEN - SPEARVILLE 230KV CKT 1  
 Flowgate: 58764587711587795879513106FA  
 Date Redispatch Needed: 10/1/06 - 12/1/06  
 Season Flowgate Identified: 2006 Fall Peak

Reservation	Relief Amount	Aggregate Relief Amount										
1090613	0.5	5										
1090662	0.5	5										
1090699	1.8	5										
1090705	1.8	5										
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)			
WEPL	'HARPER 138KV'	17	-0.1293	WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.22689	-0.35619	13			
WEPL	'HARPER 138KV'	17	-0.1293	WEPL	'JUDSON LARGE 115KV'	60	0.22848	-0.35778	13			
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	38	-0.04309	WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.22689	-0.26998	17			
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	38	-0.04309	WEPL	'JUDSON LARGE 115KV'	60	0.22848	-0.27157	17			
WEPL	'NORTH WEST GREAT BEND 115KV'	14	-0.04309	WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.22689	-0.26998	17			
WEPL	'NORTH WEST GREAT BEND 115KV'	14	-0.04309	WEPL	'JUDSON LARGE 115KV'	60	0.22848	-0.27157	17			
WEPL	'RUSSELL 115KV'	28	-0.03377	WEPL	'JUDSON LARGE 115KV'	60	0.22848	-0.26225	17			
WEPL	'HARPER 138KV'	17	-0.1293	WEPL	'SPEARVILLE WIND 34KV'	100	0.12117	-0.25047	18			
WEPL	'RUSSELL 115KV'	28	-0.03377	WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.22689	-0.26066	18			
WEPL	'BELOIT 115KV'	17	-0.01449	WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.22689	-0.24138	19			
WEPL	'BELOIT 115KV'	17	-0.01449	WEPL	'JUDSON LARGE 115KV'	60	0.22848	-0.24297	19			
WEPL	'CLIFTON 115KV'	70	-0.0106	WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.22689	-0.23749	19			
WEPL	'CLIFTON 115KV'	70	-0.0106	WEPL	'JUDSON LARGE 115KV'	60	0.22848	-0.23908	19			
WEPL	'GREENLEAF 115KV'	14	-0.00927	WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.22689	-0.23616	19			
WEPL	'GREENLEAF 115KV'	14	-0.00927	WEPL	'JUDSON LARGE 115KV'	60	0.22848	-0.23775	19			
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	38	-0.04309	WEPL	'SPEARVILLE WIND 34KV'	100	0.12117	-0.16426	28			
WEPL	'NORTH WEST GREAT BEND 115KV'	14	-0.04309	WEPL	'SPEARVILLE WIND 34KV'	100	0.12117	-0.16426	28			
WEPL	'RUSSELL 115KV'	28	-0.03377	WEPL	'SPEARVILLE WIND 34KV'	100	0.12117	-0.15494	29			
WEPL	'BELOIT 115KV'	17	-0.01449	WEPL	'SPEARVILLE WIND 34KV'	100	0.12117	-0.13566	34			
WEPL	'CLIFTON 115KV'	70	-0.0106	WEPL	'SPEARVILLE WIND 34KV'	100	0.12117	-0.13177	35			
WEPL	'GREENLEAF 115KV'	14	-0.00927	WEPL	'SPEARVILLE WIND 34KV'	100	0.12117	-0.13044	35			
WEPL	'CIMARRON RIVER 115KV'	72	0.12087	WEPL	'JUDSON LARGE 115KV'	60	0.22848	-0.10761	42			
WEPL	'CIMARRON RIVER 115KV'	72	0.12087	WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.22689	-0.10602	43			
MIDW	'PAWNEE 115KV'	999	-0.09747	MIDW	'KNOLL 3 115 115KV'	9999	-0.01058	-0.08689	53			
MIDW	'RICE 115KV'	999	-0.09747	MIDW	'KNOLL 3 115 115KV'	9999	-0.01058	-0.08689	53			

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: GREENSBURG - JUDSON LARGE 115KV CKT 1  
 Limiting Facility: GREENSBURG - JUDSON LARGE 115KV CKT 1  
 Direction: To->From  
 Line Outage: MULLERGREEN - SPEARVILLE 230KV CKT 1  
 Flowgate: 58764587711587795879513106WP  
 Date Redispatch Needed: 12/1/06 - 4/1/07  
 Season Flowgate Identified: 2006 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount										
1090613	0.4	6										
1090662	0.6	6										
1090699	2.4	6										
1090705	2.4	6										
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)			
WEPL	'HARPER 138KV'	17	-0.12937	WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.22676	-0.35613	16			
WEPL	'HARPER 138KV'	17	-0.12937	WEPL	'JUDSON LARGE 115KV'	55	0.22835	-0.35772	16			
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	46	-0.04318	WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.22676	-0.26994	21			
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	46	-0.04318	WEPL	'JUDSON LARGE 115KV'	55	0.22835	-0.27153	21			
WEPL	'NORTH WEST GREAT BEND 115KV'	14	-0.04318	WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.22676	-0.26994	21			
WEPL	'NORTH WEST GREAT BEND 115KV'	14	-0.04318	WEPL	'JUDSON LARGE 115KV'	55	0.22835	-0.27153	21			
WEPL	'RUSSELL 115KV'	28	-0.03385	WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.22676	-0.26061	22			
WEPL	'RUSSELL 115KV'	28	-0.03385	WEPL	'JUDSON LARGE 115KV'	55	0.22835	-0.2622	22			
WEPL	'HARPER 138KV'	17	-0.12937	WEPL	'SPEARVILLE WIND 34KV'	100	0.12105	-0.25042	23			
WEPL	'BELOIT 115KV'	17	-0.01458	WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.22676	-0.24134	24			
WEPL	'BELOIT 115KV'	17	-0.01458	WEPL	'JUDSON LARGE 115KV'	55	0.22835	-0.24293	24			
WEPL	'CLIFTON 115KV'	70	-0.01069	WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.22676	-0.23745	24			
WEPL	'CLIFTON 115KV'	70	-0.01069	WEPL	'JUDSON LARGE 115KV'	55	0.22835	-0.23904	24			
WEPL	'GREENLEAF 115KV'	14	-0.00936	WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.22676	-0.23612	24			
WEPL	'GREENLEAF 115KV'	14	-0.00936	WEPL	'JUDSON LARGE 115KV'	55	0.22835	-0.23771	24			
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	46	-0.04318	WEPL	'SPEARVILLE WIND 34KV'	100	0.12105	-0.16423	35			
WEPL	'NORTH WEST GREAT BEND 115KV'	14	-0.04318	WEPL	'SPEARVILLE WIND 34KV'	100	0.12105	-0.16423	35			
WEPL	'RUSSELL 115KV'	28	-0.03385	WEPL	'SPEARVILLE WIND 34KV'	100	0.12105	-0.1549	37			
MIDW	'PAWNEE 115KV'	999	-0.09756	MIDW	'COLBY 115KV'	14	0.04587	-0.14343	40			
MIDW	'RICE 115KV'	999	-0.09756	MIDW	'COLBY 115KV'	14	0.04587	-0.14343	40			
WEPL	'BELOIT 115KV'	17	-0.01458	WEPL	'SPEARVILLE WIND 34KV'	100	0.12105	-0.13563	42			
WEPL	'CLIFTON 115KV'	70	-0.01069	WEPL	'SPEARVILLE WIND 34KV'	100	0.12105	-0.13174	43			
WEPL	'CIMARRON RIVER 115KV'	72	0.12068	WEPL	'JUDSON LARGE 115KV'	55	0.22835	-0.10767	53			
WEPL	'CIMARRON RIVER 115KV'	72	0.12068	WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.22676	-0.10608	54			
MIDW	'PAWNEE 115KV'	999	-0.09756	MIDW	'KNOLL 3 115 115KV'	9999	-0.01067	-0.08689	66			
MIDW	'RICE 115KV'	999	-0.09756	MIDW	'KNOLL 3 115 115KV'	9999	-0.01067	-0.08689	66			

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: GREENSBURG - JUDSON LARGE 115KV CKT 1

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

Limiting Facility: GREENSBURG - JUDSON LARGE 115KV CKT 1  
 Direction: To->From  
 Line Outage: MULLERGREEN - SPEARVILLE 230KV CKT 1  
 Flowgate: 58764587711587795879513107G  
 Date Redispatch Needed: Starting 2007 4/1 - 6/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Spring Peak

Reservation	Relief Amount	Aggregate Relief Amount								
1090613	0.3	5								
1090662	0.5	5								
1090674	0.1	5								
1090699	2.0	5								
1090705	2.0	5								
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)	
WEPL	'HARPER 138KV'	17	-0.12869	WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.22672	-0.35541	14	
WEPL	'HARPER 138KV'	17	-0.12869	WEPL	'JUDSON LARGE 115KV'	90	0.22832	-0.35701	14	
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	20	-0.0351	WEPL	'JUDSON LARGE 115KV'	90	0.22832	-0.26342	18	
WEPL	'NORTH WEST GREAT BEND 115KV'	14	-0.0351	WEPL	'JUDSON LARGE 115KV'	90	0.22832	-0.26342	18	
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	20	-0.0351	WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.22672	-0.26182	19	
WEPL	'HARPER 138KV'	17	-0.12869	WEPL	'SPEARVILLE WIND 34KV'	100	0.12069	-0.24938	19	
WEPL	'NORTH WEST GREAT BEND 115KV'	14	-0.0351	WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.22672	-0.26182	19	
WEPL	'RUSSELL 115KV'	28	-0.02815	WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.22672	-0.25487	19	
WEPL	'RUSSELL 115KV'	28	-0.02815	WEPL	'JUDSON LARGE 115KV'	90	0.22832	-0.25647	19	
WEPL	'BELOIT 115KV'	17	-0.01346	WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.22672	-0.24018	20	
WEPL	'BELOIT 115KV'	17	-0.01346	WEPL	'JUDSON LARGE 115KV'	90	0.22832	-0.24178	20	
WEPL	'CLIFTON 115KV'	70	-0.01001	WEPL	'JUDSON LARGE 115KV'	90	0.22832	-0.23833	20	
WEPL	'GREENLEAF 115KV'	14	-0.00877	WEPL	'JUDSON LARGE 115KV'	90	0.22832	-0.23709	20	
WEPL	'CLIFTON 115KV'	70	-0.01001	WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.22672	-0.23673	21	
WEPL	'GREENLEAF 115KV'	14	-0.00877	WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.22672	-0.23549	21	
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	20	-0.0351	WEPL	'SPEARVILLE WIND 34KV'	100	0.12069	-0.15579	31	
WEPL	'NORTH WEST GREAT BEND 115KV'	14	-0.0351	WEPL	'SPEARVILLE WIND 34KV'	100	0.12069	-0.15579	31	
WEPL	'RUSSELL 115KV'	28	-0.02815	WEPL	'SPEARVILLE WIND 34KV'	100	0.12069	-0.14884	33	
MIDW	'PAWNEE 115KV'	999	-0.09465	MIDW	'COLBY 115KV'	13	0.04507	-0.13972	35	
MIDW	'RICE 115KV'	999	-0.09465	MIDW	'COLBY 115KV'	13	0.04507	-0.13972	35	
WEPL	'BELOIT 115KV'	17	-0.01346	WEPL	'SPEARVILLE WIND 34KV'	100	0.12069	-0.13415	36	
WEPL	'CLIFTON 115KV'	70	-0.01001	WEPL	'SPEARVILLE WIND 34KV'	100	0.12069	-0.1307	37	
WEPL	'GREENLEAF 115KV'	14	-0.00877	WEPL	'SPEARVILLE WIND 34KV'	100	0.12069	-0.12946	37	
WEPL	'CIMARRON RIVER 115KV'	72	0.12053	WEPL	'JUDSON LARGE 115KV'	90	0.22832	-0.10779	45	
WEPL	'CIMARRON RIVER 115KV'	72	0.12053	WEPL	'GRAY COUNTY WIND FARM 115KV'	63	0.22672	-0.10619	46	
MIDW	'PAWNEE 115KV'	999	-0.09465	MIDW	'KNOLL 3 115 115KV'	9999	-0.01234	-0.08231	59	
MIDW	'RICE 115KV'	999	-0.09465	MIDW	'KNOLL 3 115 115KV'	9999	-0.01234	-0.08231	59	

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: HOLCOMB - PLYMELL - PIONEER TAP 115KV CKT 1  
 Limiting Facility: HOLCOMB - PLYMELL 115KV CKT 1  
 Direction: From->To  
 Line Outage: FLETCHER - HOLCOMB 115KV CKT 1  
 Flowgate: 56448563931564205644812107SH  
 Date Redispatch Needed: 6/1 - 10/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Summer Shoulder

Reservation	Relief Amount	Aggregate Relief Amount								
1090310	2.3	4								
1090456	0.4	4								
1090613	1.1	4								
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)	
SUNC	'CITY OF HUGOTON 69KV'	17	-0.4093	SUNC	'HOLCOMB 115KV'	271	0.10162	-0.51092	7	
SUNC	'CITY OF HUGOTON 69KV'	17	-0.4093	SUNC	'GARDEN CITY 115KV'	24	0.09327	-0.50257	8	
SUNC	'CITY OF LAKIN 115KV'	4	-0.3506	SUNC	'HOLCOMB 115KV'	271	0.10162	-0.45222	8	
SUNC	'JOHNSON 69KV'	5	-0.37178	SUNC	'GARDEN CITY 115KV'	24	0.09327	-0.46505	8	
SUNC	'JOHNSON 69KV'	5	-0.37178	SUNC	'HOLCOMB 115KV'	271	0.10162	-0.4734	8	
SUNC	'CITY OF LAKIN 115KV'	4	-0.3506	SUNC	'GARDEN CITY 115KV'	24	0.09327	-0.44387	9	
WEPL	'CIMARRON RIVER 115KV'	72	-0.36639	WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	0.004	-0.37039	10	
WEPL	'CIMARRON RIVER 115KV'	72	-0.36639	WEPL	'CLIFTON 115KV'	42	0.00187	-0.36826	10	
WEPL	'CIMARRON RIVER 115KV'	72	-0.36639	WEPL	'GRAY COUNTY WIND FARM 115KV'	63	-0.0779	-0.28849	13	
WEPL	'CIMARRON RIVER 115KV'	72	-0.36639	WEPL	'JUDSON LARGE 115KV'	115	-0.07921	-0.28718	13	
SUNC	'CITY OF GOODLAND 115KV'	14	-0.01659	SUNC	'HOLCOMB 115KV'	271	0.10162	-0.11821	32	
SUNC	'CITY OF GOODLAND 115KV'	14	-0.01659	SUNC	'GARDEN CITY 115KV'	24	0.09327	-0.10986	35	

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: KAW WEST 161/69KV TRANSFORMER CKT 1  
 Limiting Facility: KAW WEST 161/69KV TRANSFORMER CKT 1  
 Direction: From->To  
 Line Outage: BARBER 161/69KV TRANSFORMER CKT 1  
 Flowgate: 58655586901586515869114407SP  
 Date Redispatch Needed: 6/1/07 - 10/1/07  
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount
1089952	2.2	13
1090773	1.3	13
1090782	3.1	13
1090787	1.4	13

Table 5 - 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	Redispatch Amount (MW)
		1.5							13
		3.2							13
KACY	'KAW 69KV'	192	-0.37056	KACY	'NEARMAN 161KV'	60	-0.00983	-0.36073	35
KACY	'KAW 69KV'	192	-0.37056	KACY	'NEARMAN 20KV'	235	-0.00983	-0.36073	35
KACY	'KAW 69KV'	192	-0.37056	KACY	'QUINDARO 161KV'	118	-0.02513	-0.34543	37
KACY	'QUINDARO 69KV'	24	-0.2549	KACY	'NEARMAN 161KV'	60	-0.00983	-0.24507	52
KACY	'QUINDARO 69KV'	76	-0.25503	KACY	'NEARMAN 161KV'	60	-0.00983	-0.2452	52
KACY	'QUINDARO 69KV'	24	-0.2549	KACY	'NEARMAN 20KV'	235	-0.00983	-0.24507	52
KACY	'QUINDARO 69KV'	76	-0.25503	KACY	'NEARMAN 20KV'	235	-0.00983	-0.2452	52
KACY	'QUINDARO 69KV'	24	-0.2549	KACY	'QUINDARO 161KV'	118	-0.02513	-0.22977	55
KACY	'QUINDARO 69KV'	76	-0.25503	KACY	'QUINDARO 161KV'	118	-0.02513	-0.2299	55
KACY	'KAW 69KV'	192	-0.37056	KACY	'QUINDARO 69KV'	72	-0.2549	-0.11566	110

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: LACYGNE-PAOLA-WEST GARDNER 345KV  
 Limiting Facility: WEST GARDNER (WGARD 11) 345/161/13.8KV TRANSFORMER CKT 11  
 Direction: From->To  
 Line Outage: CRAIG - WEST GARDNER 345KV CKT 1  
 Flowgate: WGAARD112751157975796513307SH  
 Date Redispatch Needed: 6/1 - 10/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Summer Shoulder

Reservation	Relief Amount	Aggregate Relief Amount
1089952	3.6	6
1090401	0.2	6
1090528	0.2	6
1090674	0.1	6
1090699	0.5	6
1090705	0.5	6
1090729	1.0	6
1090840	0.2	6

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
KACP	'BULL CREEK 161KV'	308	-0.35429	KACP	'LACYGNE UNIT 345KV'	958	0.12676	-0.48105	13
KACP	'GARDNER 161KV'	11	-0.29091	KACP	'LACYGNE UNIT 345KV'	958	0.12676	-0.41767	15
KACP	'BULL CREEK 161KV'	308	-0.35429	KACP	'MONTROSE 161KV'	357	-0.03288	-0.32141	19
KACP	'BULL CREEK 161KV'	308	-0.35429	KACP	'HAWTHORN 161KV'	455	-0.05543	-0.29886	21
KACP	'BULL CREEK 161KV'	308	-0.35429	KACP	'HAWTHORN 161KV'	77	-0.05543	-0.29886	21
KACP	'BULL CREEK 161KV'	308	-0.35429	KACP	'IATAN 345KV'	396	-0.05844	-0.29585	21
KACP	'GARDNER 161KV'	11	-0.29091	KACP	'MONTROSE 161KV'	357	-0.03288	-0.25803	24
KACP	'GARDNER 161KV'	11	-0.29091	KACP	'HAWTHORN 161KV'	455	-0.05543	-0.23548	26
KACP	'GARDNER 161KV'	11	-0.29091	KACP	'HAWTHORN 161KV'	77	-0.05543	-0.23548	26
KACP	'GARDNER 161KV'	11	-0.29091	KACP	'IATAN 345KV'	396	-0.05844	-0.23247	27
KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	-0.10104	KACP	'LACYGNE UNIT 345KV'	958	0.12676	-0.2278	27
KACP	'GRAND AVENUE 161KV'	65	-0.06483	KACP	'LACYGNE UNIT 345KV'	958	0.12676	-0.19159	32
KACP	'NORTHEAST 13KV'	56	-0.06329	KACP	'LACYGNE UNIT 345KV'	958	0.12676	-0.19005	32
KACP	'NORTHEAST 13KV'	56	-0.06329	KACP	'LACYGNE UNIT 345KV'	958	0.12676	-0.19005	32
KACP	'NORTHEAST 13KV'	58	-0.06329	KACP	'LACYGNE UNIT 345KV'	958	0.12676	-0.19005	32
KACP	'NORTHEAST 13KV'	59	-0.06329	KACP	'LACYGNE UNIT 345KV'	958	0.12676	-0.19005	32
KACP	'NORTHEAST 161KV'	55	-0.06329	KACP	'LACYGNE UNIT 345KV'	958	0.12676	-0.19005	32
KACP	'NORTHEAST 161KV'	58	-0.06329	KACP	'LACYGNE UNIT 345KV'	958	0.12676	-0.19005	32
KACP	'NORTHEAST 161KV'	58	-0.06329	KACP	'LACYGNE UNIT 345KV'	958	0.12676	-0.19005	32
KACP	'HAWTHORN 161KV'	306	-0.05543	KACP	'LACYGNE UNIT 345KV'	958	0.12676	-0.18219	34
KACP	'MONTROSE 161KV'	24	-0.03288	KACP	'LACYGNE UNIT 345KV'	958	0.12676	-0.15964	39
KACP	'CITY OF HIGGINSVILLE 69KV'	36	-0.02813	KACP	'LACYGNE UNIT 345KV'	958	0.12676	-0.15489	40
KACP	'MARSHALL 161KV'	54	-0.02188	KACP	'LACYGNE UNIT 345KV'	958	0.12676	-0.14864	41
WERE	'LAWRENCE ENERGY CENTER 115KV'	78	-0.0371	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.08468	-0.12178	51
WERE	'JEFFREY ENERGY CENTER 345KV'	42	-0.03095	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.08468	-0.11563	53
WERE	'LAWRENCE ENERGY CENTER 230KV'	36	-0.03124	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.08468	-0.11592	53
WERE	'JEFFREY ENERGY CENTER 230KV'	24	-0.02892	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.08468	-0.1136	54
WERE	'TECUMSEH ENERGY CENTER 115KV'	53	-0.02735	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.08468	-0.11203	55
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.02766	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.08468	-0.11234	55
WERE	'ABILENE ENERGY CENTER 115KV'	34	-0.02109	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.08468	-0.10577	58
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.02137	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.08468	-0.10605	58
WERE	'SMOKYHIL 230 230KV'	72	-0.01963	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.08468	-0.10431	59
WERE	'LAWRENCE ENERGY CENTER 115KV'	78	-0.0371	WERE	'GILL ENERGY CENTER 138KV'	77	0.04195	-0.07905	78
WERE	'LAWRENCE ENERGY CENTER 115KV'	78	-0.0371	WERE	'EVANS ENERGY CENTER 138KV'	305	0.04102	-0.07812	79
WERE	'LAWRENCE ENERGY CENTER 115KV'	78	-0.0371	WERE	'CITY OF WELLINGTON 69KV'	36	0.04017	-0.07727	80
WERE	'LAWRENCE ENERGY CENTER 230KV'	36	-0.03124	WERE	'GILL ENERGY CENTER 138KV'	77	0.04195	-0.07319	84
WERE	'JEFFREY ENERGY CENTER 345KV'	42	-0.03095	WERE	'GILL ENERGY CENTER 138KV'	77	0.04195	-0.0729	85
WERE	'LAWRENCE ENERGY CENTER 230KV'	36	-0.03124	WERE	'EVANS ENERGY CENTER 138KV'	305	0.04102	-0.07226	85
WERE	'JEFFREY ENERGY CENTER 345KV'	42	-0.03095	WERE	'EVANS ENERGY CENTER 138KV'	305	0.04102	-0.07197	86
WERE	'LAWRENCE ENERGY CENTER 230KV'	36	-0.03124	WERE	'CITY OF WELLINGTON 69KV'	36	0.04017	-0.07141	86
WERE	'JEFFREY ENERGY CENTER 345KV'	42	-0.03095	WERE	'CITY OF WELLINGTON 69KV'	36	0.04017	-0.07112	87
WERE	'TECUMSEH ENERGY CENTER 115KV'	53	-0.02735	WERE	'GILL ENERGY CENTER 138KV'	77	0.04195	-0.0693	89
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.02766	WERE	'GILL ENERGY CENTER 138KV'	77	0.04195	-0.06961	89
KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	-0.10104	KACP	'MONTROSE 161KV'	357	-0.03288	-0.06816	90
WERE	'TECUMSEH ENERGY CENTER 115KV'	53	-0.02735	WERE	'EVANS ENERGY CENTER 138KV'	305	0.04102	-0.06837	90
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.02766	WERE	'EVANS ENERGY CENTER 138KV'	305	0.04102	-0.06868	90
WERE	'TECUMSEH ENERGY CENTER 115KV'	53	-0.02735	WERE	'CITY OF WELLINGTON 69KV'	36	0.04017	-0.06752	91
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.02766	WERE	'CITY OF WELLINGTON 69KV'	36	0.04017	-0.06783	91
WERE	'LAWRENCE ENERGY CENTER 115KV'	78	-0.0371	WERE	'CHANUTE 69KV'	47	0.02719	-0.06429	96
WERE	'ABILENE ENERGY CENTER 115KV'	34	-0.02109	WERE	'GILL ENERGY CENTER 138KV'	77	0.04195	-0.06304	98
WERE	'ABILENE ENERGY CENTER 115KV'	34	-0.02109	WERE	'EVANS ENERGY CENTER 138KV'	305	0.04102	-0.06211	99
WERE	'SMOKYHIL 230 230KV'	72	-0.01963	WERE	'GILL ENERGY CENTER 138KV'	77	0.04195	-0.06158	100
WERE	'ABILENE ENERGY CENTER 115KV'	34	-0.02109	WERE	'CITY OF WELLINGTON 69KV'	36	0.04017	-0.06126	101
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.0188	WERE	'GILL ENERGY CENTER 138KV'	77	0.04195	-0.06075	101

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'SMOKYHIL 230 230KV'	72	-0.01963	WERE	'EVANS ENERGY CENTER 138KV'	305	0.04102	-0.06065	102
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.0188	WERE	'EVANS ENERGY CENTER 138KV'	305	0.04102	-0.05982	103
WERE	'SMOKYHIL 230 230KV'	72	-0.01963	WERE	'CITY OF WELLINGTON 69KV'	36	0.04017	-0.0598	103
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.0188	WERE	'CITY OF WELLINGTON 69KV'	36	0.04017	-0.05897	105
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.01702	WERE	'GILL ENERGY CENTER 138KV'	77	0.04195	-0.05897	105
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.01701	WERE	'GILL ENERGY CENTER 138KV'	77	0.04195	-0.05896	105
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.01702	WERE	'EVANS ENERGY CENTER 138KV'	305	0.04102	-0.05804	106
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.01701	WERE	'EVANS ENERGY CENTER 138KV'	305	0.04102	-0.05803	106
WERE	'JEFFREY ENERGY CENTER 345KV'	42	-0.03095	WERE	'CHANUTE 69KV'	47	0.02719	-0.05814	106
WERE	'LAWRENCE ENERGY CENTER 230KV'	36	-0.03124	WERE	'CHANUTE 69KV'	47	0.02719	-0.05843	106
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	-0.02766	WERE	'CHANUTE 69KV'	47	0.02719	-0.05485	112
WERE	'TECUMSEH ENERGY CENTER 115KV'	53	-0.02735	WERE	'CHANUTE 69KV'	47	0.02719	-0.05454	113
WERE	'SMOKYHIL 230 230KV'	72	-0.01963	WERE	'CHANUTE 69KV'	47	0.02719	-0.04682	132
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.0188	WERE	'CHANUTE 69KV'	47	0.02719	-0.04599	134
KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	-0.10104	KACP	'HAWTHORN 161KV'	455	-0.05543	-0.04561	135
KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	-0.10104	KACP	'HAWTHORN 161KV'	77	-0.05543	-0.04561	135
SWPA	'TRUMAN 161KV'	83	-0.01857	SWPA	'KEYSTONE DAM 161KV'	57	0.02606	-0.04463	138
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.01702	WERE	'CHANUTE 69KV'	47	0.02719	-0.04421	139
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.01701	WERE	'CHANUTE 69KV'	47	0.02719	-0.0442	139
KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	-0.10104	KACP	'IATAN 345KV'	396	-0.05844	-0.0426	145
SWPA	'TRUMAN 161KV'	83	-0.01857	SWPA	'DENISON 138KV'	57	0.012121	-0.03978	155
SWPA	'TRUMAN 161KV'	83	-0.01857	SWPA	'BEAVER 161KV'	93	0.01792	-0.03649	169
SWPA	'TRUMAN 161KV'	83	-0.01857	SWPA	'ROBERT S. KERR 161KV'	102	0.01698	-0.03555	173
SWPA	'TRUMAN 161KV'	83	-0.01857	SWPA	'BROKEN BOW 138KV'	89	0.01653	-0.0351	176
SWPA	'TRUMAN 161KV'	83	-0.01857	SWPA	'OZARK 161KV'	74	0.01427	-0.03284	188
KACP	'GRAND AVENUE 161KV'	65	-0.06483	KACP	'MONTROSE 161KV'	357	-0.03288	-0.03195	193
SWPA	'TRUMAN 161KV'	83	-0.01857	SWPA	'TABLE ROCK 161KV'	178	0.01333	-0.0319	193

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: MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1  
 Limiting Facility: MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1  
 Direction: To->From  
 Line Outage: REDEL - STILWELL 161KV CKT 1  
 Flowgate: 59210592591580535796911307SP  
 Date Redispatch Needed: 6/1/07 - 10/1/07  
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount									
1089952		1.2	1								
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)		
MIPU	'ARIES 161KV'	595	-0.02927	MIPU	'SOUTH HARPER 161KV'	315	0.32799	-0.35726	3		
MIPU	'GREENWOOD 161KV'	217	-0.03697	MIPU	'SOUTH HARPER 161KV'	315	0.32799	-0.36496	3		
MIPU	'LAKE ROAD 161KV'	91	-0.01318	MIPU	'SOUTH HARPER 161KV'	315	0.32799	-0.34117	3		
MIPU	'NEVADA 69KV'	20	-0.00723	MIPU	'SOUTH HARPER 161KV'	315	0.32799	-0.33522	3		
MIPU	'SIBLEY 161KV'	18	-0.02002	MIPU	'SOUTH HARPER 161KV'	315	0.32799	-0.34801	3		
MIPU	'SIBLEY 69KV'	1	-0.02161	MIPU	'SOUTH HARPER 161KV'	315	0.32799	-0.3496	3		
MIPU	'TWA 161KV'	32	-0.02378	MIPU	'SOUTH HARPER 161KV'	315	0.32799	-0.35177	3		
MIPU	'RALPH GREEN 69KV'	74	0.06077	MIPU	'SOUTH HARPER 161KV'	315	0.32799	-0.26722	4		
KACP	'GRAND AVENUE 161KV'	65	-0.02786	KACP	'LACYGNE UNIT 345KV'	958	0.01874	-0.0466	25		
KACP	'NORTHEAST 13KV'	56	-0.02775	KACP	'LACYGNE UNIT 345KV'	958	0.01874	-0.04649	25		
KACP	'NORTHEAST 13KV'	56	-0.02775	KACP	'LACYGNE UNIT 345KV'	958	0.01874	-0.04649	25		
KACP	'NORTHEAST 13KV'	58	-0.02775	KACP	'LACYGNE UNIT 345KV'	958	0.01874	-0.04649	25		
KACP	'NORTHEAST 13KV'	59	-0.02775	KACP	'LACYGNE UNIT 345KV'	958	0.01874	-0.04649	25		
KACP	'NORTHEAST 161KV'	55	-0.02775	KACP	'LACYGNE UNIT 345KV'	958	0.01874	-0.04649	25		
KACP	'NORTHEAST 161KV'	58	-0.02775	KACP	'LACYGNE UNIT 345KV'	958	0.01874	-0.04649	25		
KACP	'NORTHEAST 161KV'	58	-0.02775	KACP	'LACYGNE UNIT 345KV'	958	0.01874	-0.04649	25		
KACP	'NORTHEAST 161KV'	58	-0.02775	KACP	'LACYGNE UNIT 345KV'	958	0.01874	-0.04649	25		
KACP	'MONTROSE 161KV'	25	-0.01882	KACP	'LACYGNE UNIT 345KV'	958	0.01874	-0.03756	31		
KACP	'BULL CREEK 161KV'	112	-0.0141	KACP	'LACYGNE UNIT 345KV'	958	0.01874	-0.03284	36		

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: MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1  
 Limiting Facility: MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1  
 Direction: To->From  
 Line Outage: REDEL - STILWELL 161KV CKT 1  
 Flowgate: 59210592591580535796911308SP  
 Date Redispatch Needed: Starting 2008 6/1 - 10/1 Until EOC  
 Season Flowgate Identified: 2008 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount									
1089950		0.4	1								
1089952		0.6	1								
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)		
MIPU	'ARIES 161KV'	595	-0.02914	MIPU	'SOUTH HARPER 161KV'	315	0.32815	-0.35729	3		
MIPU	'GREENWOOD 161KV'	193	-0.03684	MIPU	'SOUTH HARPER 161KV'	315	0.32815	-0.36499	3		
MIPU	'LAKE ROAD 161KV'	91	-0.0135	MIPU	'SOUTH HARPER 161KV'	315	0.32815	-0.34165	3		
MIPU	'NEVADA 69KV'	20	-0.00711	MIPU	'SOUTH HARPER 161KV'	315	0.32815	-0.33526	3		
MIPU	'SIBLEY 161KV'	18	-0.01998	MIPU	'SOUTH HARPER 161KV'	315	0.32815	-0.34813	3		
MIPU	'SIBLEY 69KV'	1	-0.02157	MIPU	'SOUTH HARPER 161KV'	315	0.32815	-0.34972	3		
MIPU	'TWA 161KV'	32	-0.02362	MIPU	'SOUTH HARPER 161KV'	315	0.32815	-0.35177	3		
MIPU	'RALPH GREEN 69KV'	74	0.0609	MIPU	'SOUTH HARPER 161KV'	315	0.32815	-0.26725	4		
KACP	'GRAND AVENUE 161KV'	65	-0.02786	KACP	'LACYGNE UNIT 345KV'	958	0.01903	-0.04689	22		
KACP	'NORTHEAST 13KV'	56	-0.02775	KACP	'LACYGNE UNIT 345KV'	958	0.01903	-0.04678	22		
KACP	'NORTHEAST 13KV'	56	-0.02775	KACP	'LACYGNE UNIT 345KV'	958	0.01903	-0.04678	22		

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

KACP	'NORTHEAST 13KV'	58	-0.02775	KACP	'LACYGNE UNIT 345KV'	958	0.01903	-0.04678	22
KACP	'NORTHEAST 13KV'	59	-0.02775	KACP	'LACYGNE UNIT 345KV'	958	0.01903	-0.04678	22
KACP	'NORTHEAST 161KV'	55	-0.02775	KACP	'LACYGNE UNIT 345KV'	958	0.01903	-0.04678	22
KACP	'NORTHEAST 161KV'	58	-0.02775	KACP	'LACYGNE UNIT 345KV'	958	0.01903	-0.04678	22
KACP	'NORTHEAST 161KV'	58	-0.02775	KACP	'LACYGNE UNIT 345KV'	958	0.01903	-0.04678	22
KACP	'NORTHEAST 161KV'	58	-0.02775	KACP	'LACYGNE UNIT 345KV'	958	0.01903	-0.04678	22
KACP	'NORTHEAST 161KV'	58	-0.02775	KACP	'LACYGNE UNIT 345KV'	958	0.01903	-0.04678	22
KACP	'MONTRSE 161KV'	24	-0.0187	KACP	'LACYGNE UNIT 345KV'	958	0.01903	-0.03773	27
KACP	'GARDNER 161KV'	11	-0.01614	KACP	'LACYGNE UNIT 345KV'	958	0.01903	-0.03517	29
KACP	'BULL CREEK 161KV'	112	-0.01463	KACP	'LACYGNE UNIT 345KV'	958	0.01903	-0.03366	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: 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: 59210592591591985920011108SP  
 Date Redispatch Needed: Starting 2008 6/1 - 10/1 Until EOC  
 Season Flowgate Identified: 2008 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount							
1089950		1.1							
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
MIPU	'ARIES 161KV'	595	-0.04475	MIPU	'SOUTH HARPER 161KV'	315	0.39836	-0.44311	2
MIPU	'GREENWOOD 161KV'	90	-0.04776	MIPU	'SOUTH HARPER 161KV'	315	0.39836	-0.44612	2
MIPU	'LAKE ROAD 161KV'	91	-0.01622	MIPU	'SOUTH HARPER 161KV'	315	0.39836	-0.41458	3
MIPU	'NEVADA 69KV'	20	-0.01018	MIPU	'SOUTH HARPER 161KV'	315	0.39836	-0.40854	3
MIPU	'RALPH GREEN 69KV'	74	0.0741	MIPU	'SOUTH HARPER 161KV'	315	0.39836	-0.32426	3
MIPU	'SIBLEY 161KV'	17	-0.03341	MIPU	'SOUTH HARPER 161KV'	315	0.39836	-0.43177	3
MIPU	'SIBLEY 69KV'	1	-0.03271	MIPU	'SOUTH HARPER 161KV'	315	0.39836	-0.43107	3
MIPU	'TWA 161KV'	32	-0.0244	MIPU	'SOUTH HARPER 161KV'	315	0.39836	-0.42276	3
KACP	'NORTHEAST 13KV'	58	-0.02908	KACP	'LACYGNE UNIT 345KV'	958	0.041	-0.07008	15
KACP	'NORTHEAST 13KV'	59	-0.02908	KACP	'LACYGNE UNIT 345KV'	958	0.041	-0.07008	15
KACP	'NORTHEAST 161KV'	58	-0.02908	KACP	'LACYGNE UNIT 345KV'	958	0.041	-0.07008	15
KACP	'NORTHEAST 161KV'	58	-0.02908	KACP	'LACYGNE UNIT 345KV'	958	0.041	-0.07008	15
KACP	'GRAND AVENUE 161KV'	65	-0.02874	KACP	'LACYGNE UNIT 345KV'	958	0.041	-0.06974	16
KACP	'MONTRSE 161KV'	24	-0.02034	KACP	'LACYGNE UNIT 345KV'	958	0.041	-0.06134	18
KACP	'MARSHALL 161KV'	54	-0.01561	KACP	'LACYGNE UNIT 345KV'	958	0.041	-0.05661	19
KACP	'GARDNER 161KV'	11	-0.0068	KACP	'LACYGNE UNIT 345KV'	958	0.041	-0.0478	23
KACP	'GRAND AVENUE 161KV'	65	-0.02874	KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	0.01262	-0.04136	26
KACP	'NORTHEAST 13KV'	58	-0.02908	KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	0.01262	-0.0417	26
KACP	'NORTHEAST 13KV'	59	-0.02908	KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	0.01262	-0.0417	26
KACP	'NORTHEAST 161KV'	58	-0.02908	KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	0.01262	-0.0417	26
KACP	'NORTHEAST 161KV'	58	-0.02908	KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	0.01262	-0.0417	26
KACP	'MONTRSE 161KV'	24	-0.02034	KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	0.01262	-0.03296	33
MIPU	'GREENWOOD 161KV'	90	-0.04776	MIPU	'LAKE ROAD 161KV'	35	-0.01622	-0.03154	34
MIPU	'GREENWOOD 161KV'	90	-0.04776	MIPU	'LAKE ROAD 34KV'	92	-0.01622	-0.03154	34

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: 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: 59210592591591985920011406WP  
 Date Redispatch Needed: 12/1/06 - 4/1/07  
 Season Flowgate Identified: 2006 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount							
1090699		18.0							
1090705		18.0							
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
MIPU	'GREENWOOD 161KV'	247	-0.04812	MIPU	'SOUTH HARPER 161KV'	315	0.398	-0.44612	80
MIPU	'ARIES 161KV'	595	-0.04512	MIPU	'SOUTH HARPER 161KV'	315	0.398	-0.44312	81
MIPU	'TWA 161KV'	32	-0.02452	MIPU	'SOUTH HARPER 161KV'	315	0.398	-0.42252	85
MIPU	'LAKE ROAD 161KV'	91	-0.01577	MIPU	'SOUTH HARPER 161KV'	315	0.398	-0.41377	87
MIPU	'RALPH GREEN 69KV'	74	0.07369	MIPU	'SOUTH HARPER 161KV'	315	0.398	-0.32431	111
KACP	'HAWTHORN 161KV'	423	-0.03185	KACP	'LACYGNE UNIT 345KV'	962	0.04174	-0.07359	488
KACP	'BULL CREEK 161KV'	308	-0.00386	KACP	'LACYGNE UNIT 345KV'	962	0.04174	-0.0456	787

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: 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: 59210592591591985920011407SP  
 Date Redispatch Needed: 6/1/07 - 10/1/07  
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090699		0.8
1090705		0.8

Table 5 - 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	Redispatch Amount (MW)
MIPU	'ARIES 161KV'	595	-0.04491	MIPU	'SOUTH HARPER 161KV'	315	0.39809	-0.443	4
MIPU	'GREENWOOD 161KV'	16	-0.04792	MIPU	'SOUTH HARPER 161KV'	315	0.39809	-0.44601	4
MIPU	'LAKE ROAD 161KV'	81	-0.01559	MIPU	'SOUTH HARPER 161KV'	315	0.39809	-0.41368	4
MIPU	'NEVADA 69KV'	20	-0.01053	MIPU	'SOUTH HARPER 161KV'	315	0.39809	-0.40862	4
MIPU	'SIBLEY 161KV'	19	-0.03334	MIPU	'SOUTH HARPER 161KV'	315	0.39809	-0.43143	4
MIPU	'TWA 161KV'	14	-0.02429	MIPU	'SOUTH HARPER 161KV'	315	0.39809	-0.42238	4
MIPU	'ARIES 161KV'	595	-0.04491	MIPU	'RALPH GREEN 69KV'	72	0.07387	-0.11878	14
MIPU	'GREENWOOD 161KV'	16	-0.04792	MIPU	'RALPH GREEN 69KV'	72	0.07387	-0.12179	14
MIPU	'SIBLEY 161KV'	19	-0.03334	MIPU	'RALPH GREEN 69KV'	72	0.07387	-0.10721	16
MIPU	'TWA 161KV'	14	-0.02429	MIPU	'RALPH GREEN 69KV'	72	0.07387	-0.09816	17
MIPU	'LAKE ROAD 161KV'	81	-0.01559	MIPU	'RALPH GREEN 69KV'	72	0.07387	-0.08946	19
MIPU	'NEVADA 69KV'	20	-0.01053	MIPU	'RALPH GREEN 69KV'	72	0.07387	-0.0844	20
KACP	'GRAND AVENUE 161KV'	65	-0.02853	KACP	'LACYGNE UNIT 345KV'	958	0.04177	-0.0703	24
KACP	'NORTHEAST 13KV'	58	-0.02888	KACP	'LACYGNE UNIT 345KV'	958	0.04177	-0.07065	24
KACP	'NORTHEAST 13KV'	59	-0.02888	KACP	'LACYGNE UNIT 345KV'	958	0.04177	-0.07065	24
KACP	'NORTHEAST 161KV'	58	-0.02888	KACP	'LACYGNE UNIT 345KV'	958	0.04177	-0.07065	24
KACP	'NORTHEAST 161KV'	58	-0.02888	KACP	'LACYGNE UNIT 345KV'	958	0.04177	-0.07065	24
KACP	'NORTHEAST 161KV'	8	-0.02888	KACP	'LACYGNE UNIT 345KV'	958	0.04177	-0.07065	24
KACP	'MONTROSE 161KV'	25	-0.02065	KACP	'LACYGNE UNIT 345KV'	958	0.04177	-0.06242	27
KACP	'MARSHALL 161KV'	39	-0.0156	KACP	'LACYGNE UNIT 345KV'	958	0.04177	-0.05737	29
KACP	'GRAND AVENUE 161KV'	65	-0.02853	KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	0.0017	-0.03023	55
KACP	'NORTHEAST 13KV'	58	-0.02888	KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	0.0017	-0.03058	55
KACP	'NORTHEAST 13KV'	59	-0.02888	KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	0.0017	-0.03058	55
KACP	'NORTHEAST 161KV'	58	-0.02888	KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	0.0017	-0.03058	55
KACP	'NORTHEAST 161KV'	58	-0.02888	KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	0.0017	-0.03058	55

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: MUSTANG STATION 230/115KV TRANSFORMER CKT 1  
 Limiting Facility: MUSTANG STATION 230/115KV TRANSFORMER CKT 1  
 Direction: From->To  
 Line Outage: YOAKUM COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1  
 Flowgate: 51966519691518915189011107G  
 Date Redispatch Needed: Starting 2007 4/1 - 6/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Spring Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090487		2.5

  

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
SPS	'CUNNINGHAM 115KV'	71	-0.12228	SPS	'MUSTG5 118.0 230KV'	210	0.24418	-0.36646	7
SPS	'MADOX 115KV'	75	-0.12526	SPS	'MUSTG5 118.0 230KV'	210	0.24418	-0.36944	7
SPS	'CARLSBAD 69KV'	18	-0.0394	SPS	'MUSTG5 118.0 230KV'	210	0.24418	-0.28358	9
SPS	'CZ 69KV'	4	0.00466	SPS	'MUSTG5 118.0 230KV'	210	0.24418	-0.23952	10
SPS	'HARRINGTON 230KV'	360	0.00522	SPS	'MUSTG5 118.0 230KV'	210	0.24418	-0.23896	10
SPS	'HUBRCO2 69KV'	6	0.00508	SPS	'MUSTG5 118.0 230KV'	210	0.24418	-0.2391	10
SPS	'Lubbock Power and Light'	152	-0.01335	SPS	'MUSTG5 118.0 230KV'	210	0.24418	-0.25753	10
SPS	'MOORE COUNTY 115KV'	48	0.00534	SPS	'MUSTG5 118.0 230KV'	210	0.24418	-0.23884	10
SPS	'NICHOLS 115KV'	107	0.00502	SPS	'MUSTG5 118.0 230KV'	210	0.24418	-0.23916	10
SPS	'NICHOLS 230KV'	107	0.00516	SPS	'MUSTG5 118.0 230KV'	210	0.24418	-0.23902	10
SPS	'PLANTX 115KV'	48	0.00747	SPS	'MUSTG5 118.0 230KV'	210	0.24418	-0.23671	10
SPS	'RIVERVIEW 69KV'	23	0.00508	SPS	'MUSTG5 118.0 230KV'	210	0.24418	-0.2391	10
SPS	'SIDRCH 69KV'	6	0.00508	SPS	'MUSTG5 118.0 230KV'	210	0.24418	-0.2391	10
SPS	'TUCUMCARI 115KV'	15	0.01241	SPS	'MUSTG5 118.0 230KV'	210	0.24418	-0.23177	11
SPS	'MADOX 115KV'	75	-0.12526	SPS	'TOLK 230KV'	1023	0.01764	-0.1429	17
SPS	'CUNNINGHAM 115KV'	71	-0.12228	SPS	'CAPROCK 115KV'	80	0.01241	-0.13469	18
SPS	'CUNNINGHAM 115KV'	71	-0.12228	SPS	'PLANTX 230KV'	189	0.01597	-0.13825	18
SPS	'CUNNINGHAM 115KV'	71	-0.12228	SPS	'TOLK 230KV'	1023	0.01764	-0.13992	18
SPS	'MADOX 115KV'	75	-0.12526	SPS	'CAPROCK 115KV'	80	0.01241	-0.13767	18
SPS	'MADOX 115KV'	75	-0.12526	SPS	'PLANTX 230KV'	189	0.01597	-0.14123	18
SPS	'CUNNINGHAM 115KV'	71	-0.12228	SPS	'BLACKHAWK 115KV'	220	0.00507	-0.12735	19
SPS	'CUNNINGHAM 115KV'	71	-0.12228	SPS	'HARRINGTON 230KV'	706	0.00522	-0.1275	19
SPS	'CUNNINGHAM 115KV'	71	-0.12228	SPS	'NICHOLS 115KV'	106	0.00502	-0.1273	19
SPS	'CUNNINGHAM 115KV'	71	-0.12228	SPS	'NICHOLS 230KV'	137	0.00516	-0.12744	19
SPS	'CUNNINGHAM 115KV'	71	-0.12228	SPS	'PLANTX 115KV'	205	0.00747	-0.12975	19
SPS	'CUNNINGHAM 115KV'	71	-0.12228	SPS	'SIDRCH 69KV'	14	0.00508	-0.12736	19
SPS	'CUNNINGHAM 115KV'	71	-0.12228	SPS	'WILWIND 230KV'	160	0.00728	-0.12956	19
SPS	'MADOX 115KV'	75	-0.12526	SPS	'BLACKHAWK 115KV'	220	0.00507	-0.13033	19
SPS	'MADOX 115KV'	75	-0.12526	SPS	'CZ 69KV'	35	0.00466	-0.12992	19
SPS	'MADOX 115KV'	75	-0.12526	SPS	'HARRINGTON 230KV'	706	0.00522	-0.13048	19
SPS	'MADOX 115KV'	75	-0.12526	SPS	'NICHOLS 115KV'	106	0.00502	-0.13028	19
SPS	'MADOX 115KV'	75	-0.12526	SPS	'NICHOLS 230KV'	137	0.00516	-0.13042	19
SPS	'MADOX 115KV'	75	-0.12526	SPS	'PLANTX 115KV'	205	0.00747	-0.13273	19
SPS	'MADOX 115KV'	75	-0.12526	SPS	'SAN JUAN 230KV'	120	0.00289	-0.12815	19
SPS	'MADOX 115KV'	75	-0.12526	SPS	'SIDRCH 69KV'	14	0.00508	-0.13034	19
SPS	'MADOX 115KV'	75	-0.12526	SPS	'STEER WATER 115KV'	80	0.00484	-0.1301	19
SPS	'MADOX 115KV'	75	-0.12526	SPS	'WILWIND 230KV'	160	0.00728	-0.13254	19
SPS	'CUNNINGHAM 115KV'	71	-0.12228	SPS	'CZ 69KV'	35	0.00466	-0.12694	20
SPS	'CUNNINGHAM 115KV'	71	-0.12228	SPS	'SAN JUAN 230KV'	120	0.00289	-0.12517	20
SPS	'CUNNINGHAM 115KV'	71	-0.12228	SPS	'STEER WATER 115KV'	80	0.00484	-0.12712	20
SPS	'MADOX 115KV'	75	-0.12526	SPS	'JONES 230KV'	486	-0.01215	-0.11311	22
SPS	'MADOX 115KV'	75	-0.12526	SPS	'LP-BRND2 69KV'	80	-0.01335	-0.11191	22
SPS	'CUNNINGHAM 115KV'	71	-0.12228	SPS	'JONES 230KV'	486	-0.01215	-0.11013	23
SPS	'CUNNINGHAM 115KV'	71	-0.12228	SPS	'LP-BRND2 69KV'	80	-0.01335	-0.10893	23
SPS	'MADOX 115KV'	75	-0.12526	SPS	'CUNNINGHAM 230KV'	306	-0.02586	-0.0994	25
SPS	'CUNNINGHAM 115KV'	71	-0.12228	SPS	'CUNNINGHAM 230KV'	306	-0.02586	-0.09642	26
SPS	'CARLSBAD 69KV'	18	-0.0394	SPS	'TOLK 230KV'	1023	0.01764	-0.05704	44
SPS	'CARLSBAD 69KV'	18	-0.0394	SPS	'PLANTX 230KV'	189	0.01597	-0.05537	45
SPS	'CARLSBAD 69KV'	18	-0.0394	SPS	'CAPROCK 115KV'	80	0.01241	-0.05181	48



Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

SPS	'CARLSBAD 69KV'	18	-0.0394	SPS	'PLANTX 115KV'	205	0.00747	-0.04687	53
SPS	'CARLSBAD 69KV'	18	-0.0394	SPS	'WILWIND 230KV'	160	0.00728	-0.04668	53
SPS	'Lubbock Power and Light'	152	-0.01335	SPS	'TOLK 230KV'	1023	0.01764	-0.03099	80

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: MUSTANG STATION 230/115KV TRANSFORMER CKT 1  
 Limiting Facility: MUSTANG STATION 230/115KV TRANSFORMER CKT 1  
 Direction: From->To  
 Line Outage: YOAKUM COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1  
 Flowgate: 51966519691518915189011107SH  
 Date Redispatch Needed: 6/1 - 10/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Summer Shoulder

Reservation	Relief Amount	Aggregate Relief Amount								
1090487	11.7	12								
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)	
SPS	'CUNNINGHAM 115KV'	110	-0.1223	SPS	'MUSTG5 118.0 230KV'	210	0.24417	-0.36647	32	
SPS	'CUNNINGHAM 115KV'	71	-0.1223	SPS	'MUSTG5 118.0 230KV'	210	0.24417	-0.36647	32	
SPS	'MADOX 115KV'	75	-0.12528	SPS	'MUSTG5 118.0 230KV'	210	0.24417	-0.36945	32	
SPS	'CARLSBAD 69KV'	18	-0.03942	SPS	'MUSTG5 118.0 230KV'	210	0.24417	-0.28359	41	
SPS	'CUNNINGHAM 230KV'	29	-0.02587	SPS	'MUSTG5 118.0 230KV'	210	0.24417	-0.27004	43	
SPS	'Lubbock Power and Light'	152	-0.01337	SPS	'MUSTG5 118.0 230KV'	210	0.24417	-0.25754	45	
SPS	'MOORE COUNTY 115KV'	48	0.00531	SPS	'MUSTG5 118.0 230KV'	210	0.24417	-0.23886	49	
SPS	'NICHOLS 115KV'	131	0.005	SPS	'MUSTG5 118.0 230KV'	210	0.24417	-0.23917	49	
SPS	'NICHOLS 230KV'	244	0.00514	SPS	'MUSTG5 118.0 230KV'	210	0.24417	-0.23903	49	
SPS	'PLANTX 115KV'	48	0.00745	SPS	'MUSTG5 118.0 230KV'	210	0.24417	-0.23672	49	
SPS	'RIVERVIEW 69KV'	23	0.00506	SPS	'MUSTG5 118.0 230KV'	210	0.24417	-0.23911	49	
SPS	'MADOX 115KV'	75	-0.12528	SPS	'TOLK 230KV'	1031	0.01762	-0.1429	82	
SPS	'MADOX 115KV'	75	-0.12528	SPS	'PLANTX 230KV'	189	0.01595	-0.14123	83	
SPS	'CUNNINGHAM 115KV'	110	-0.1223	SPS	'TOLK 230KV'	1031	0.01762	-0.13992	84	
SPS	'CUNNINGHAM 115KV'	71	-0.1223	SPS	'TOLK 230KV'	1031	0.01762	-0.13992	84	
SPS	'CUNNINGHAM 115KV'	110	-0.1223	SPS	'PLANTX 230KV'	189	0.01595	-0.13825	85	
SPS	'CUNNINGHAM 115KV'	71	-0.1223	SPS	'PLANTX 230KV'	189	0.01595	-0.13825	85	
SPS	'MADOX 115KV'	75	-0.12528	SPS	'CAPROCK 115KV'	80	0.01239	-0.13767	85	
SPS	'CUNNINGHAM 115KV'	110	-0.1223	SPS	'CAPROCK 115KV'	80	0.01239	-0.13469	87	
SPS	'CUNNINGHAM 115KV'	71	-0.1223	SPS	'CAPROCK 115KV'	80	0.01239	-0.13469	87	
SPS	'MADOX 115KV'	75	-0.12528	SPS	'PLANTX 115KV'	205	0.00745	-0.13273	88	
SPS	'MADOX 115KV'	75	-0.12528	SPS	'WILWIND 230KV'	160	0.00725	-0.13253	88	
SPS	'CUNNINGHAM 115KV'	110	-0.1223	SPS	'PLANTX 115KV'	205	0.00745	-0.12975	90	
SPS	'CUNNINGHAM 115KV'	71	-0.1223	SPS	'PLANTX 115KV'	205	0.00745	-0.12975	90	
SPS	'CUNNINGHAM 115KV'	110	-0.1223	SPS	'WILWIND 230KV'	160	0.00725	-0.12955	90	
SPS	'CUNNINGHAM 115KV'	71	-0.1223	SPS	'WILWIND 230KV'	160	0.00725	-0.12955	90	
SPS	'MADOX 115KV'	75	-0.12528	SPS	'BLACKHAWK 115KV'	220	0.00505	-0.13033	90	
SPS	'MADOX 115KV'	75	-0.12528	SPS	'CZ 69KV'	35	0.00464	-0.12992	90	
SPS	'MADOX 115KV'	75	-0.12528	SPS	'HARRINGTON 230KV'	1066	0.0052	-0.13048	90	
SPS	'MADOX 115KV'	75	-0.12528	SPS	'NICHOLS 115KV'	82	0.005	-0.13028	90	
SPS	'MADOX 115KV'	75	-0.12528	SPS	'STEER WATER 115KV'	80	0.00482	-0.1301	90	
SPS	'MADOX 115KV'	75	-0.12528	SPS	'SAN JUAN 230KV'	120	0.00287	-0.12815	91	
SPS	'CUNNINGHAM 115KV'	110	-0.1223	SPS	'BLACKHAWK 115KV'	220	0.00505	-0.12735	92	
SPS	'CUNNINGHAM 115KV'	71	-0.1223	SPS	'BLACKHAWK 115KV'	220	0.00505	-0.12735	92	
SPS	'CUNNINGHAM 115KV'	110	-0.1223	SPS	'CZ 69KV'	35	0.00464	-0.12694	92	
SPS	'CUNNINGHAM 115KV'	71	-0.1223	SPS	'CZ 69KV'	35	0.00464	-0.12694	92	
SPS	'CUNNINGHAM 115KV'	110	-0.1223	SPS	'HARRINGTON 230KV'	1066	0.0052	-0.1275	92	
SPS	'CUNNINGHAM 115KV'	71	-0.1223	SPS	'HARRINGTON 230KV'	1066	0.0052	-0.1275	92	
SPS	'CUNNINGHAM 115KV'	110	-0.1223	SPS	'NICHOLS 115KV'	82	0.005	-0.1273	92	
SPS	'CUNNINGHAM 115KV'	71	-0.1223	SPS	'NICHOLS 115KV'	82	0.005	-0.1273	92	
SPS	'CUNNINGHAM 115KV'	110	-0.1223	SPS	'STEER WATER 115KV'	80	0.00482	-0.12712	92	
SPS	'CUNNINGHAM 115KV'	71	-0.1223	SPS	'STEER WATER 115KV'	80	0.00482	-0.12712	92	
SPS	'CUNNINGHAM 115KV'	110	-0.1223	SPS	'SAN JUAN 230KV'	120	0.00287	-0.12517	93	
SPS	'CUNNINGHAM 115KV'	71	-0.1223	SPS	'SAN JUAN 230KV'	120	0.00287	-0.12517	93	
SPS	'MADOX 115KV'	75	-0.12528	SPS	'JONES 230KV'	486	-0.01217	-0.11311	103	
SPS	'MADOX 115KV'	75	-0.12528	SPS	'LP-BRND2 69KV'	80	-0.01337	-0.11191	105	
SPS	'CUNNINGHAM 115KV'	110	-0.1223	SPS	'JONES 230KV'	486	-0.01217	-0.11013	106	
SPS	'CUNNINGHAM 115KV'	71	-0.1223	SPS	'JONES 230KV'	486	-0.01217	-0.11013	106	
SPS	'CUNNINGHAM 115KV'	110	-0.1223	SPS	'LP-BRND2 69KV'	80	-0.01337	-0.10893	107	
SPS	'CUNNINGHAM 115KV'	71	-0.1223	SPS	'LP-BRND2 69KV'	80	-0.01337	-0.10893	107	
SPS	'MADOX 115KV'	75	-0.12528	SPS	'CUNNINGHAM 230KV'	277	-0.02587	-0.09941	118	
SPS	'CUNNINGHAM 115KV'	110	-0.1223	SPS	'CUNNINGHAM 230KV'	277	-0.02587	-0.09643	121	
SPS	'CUNNINGHAM 115KV'	71	-0.1223	SPS	'CUNNINGHAM 230KV'	277	-0.02587	-0.09643	121	
SPS	'Lubbock Power and Light'	152	-0.01337	SPS	'TOLK 230KV'	1031	0.01762	-0.03099	378	

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: MUSTANG STATION 230/115KV TRANSFORMER CKT 1  
 Limiting Facility: MUSTANG STATION 230/115KV TRANSFORMER CKT 1  
 Direction: From->To  
 Line Outage: YOAKUM COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1  
 Flowgate: 51966519691518915189011107SP  
 Date Redispatch Needed: 6/1/07 - 10/1/07  
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount								
1090487	42.2	42								
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)	
SPS	'MADOX 115KV'	75	-0.12527	SPS	'MUSTG5 118.0 230KV'	360	0.24417	-0.36944	114	

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

SPS	'Lubbock Power and Light'	152	-0.01336	SPS	'MUSTG5 118.0 230KV'	360	0.24417	-0.25753	164
SPS	'NICHOLS 115KV'	66	0.00501	SPS	'MUSTG5 118.0 230KV'	360	0.24417	-0.23916	176
SPS	'NICHOLS 230KV'	97	0.00515	SPS	'MUSTG5 118.0 230KV'	360	0.24417	-0.23902	177

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: MUSTANG STATION 230/115KV TRANSFORMER CKT 1  
 Limiting Facility: MUSTANG STATION 230/115KV TRANSFORMER CKT 1  
 Direction: From->To  
 Line Outage: LEA COUNTY INTERCHANGE - YOAKUM COUNTY INTERCHANGE 230KV CKT 1  
 Flowgate: 51966519691522055189111407FA  
 Date Redispatch Needed: Starting 2007 10/1 - 12/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Fall Peak

Reservation	Relief Amount	Aggregate Relief Amount								
1090487	42.2	47								
1090695	4.3	47								
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)	
SPS	'MADOX 115KV'	88	-0.21303	SPS	'MUSTG5 118.0 230KV'	210	0.25693	-0.46996	99	
SPS	'CUNNINGHAM 115KV'	110	-0.21041	SPS	'MUSTG5 118.0 230KV'	210	0.25693	-0.46734	100	
SPS	'CUNNINGHAM 115KV'	71	-0.21041	SPS	'MUSTG5 118.0 230KV'	210	0.25693	-0.46734	100	
SPS	'CUNNINGHAM 230KV'	306	-0.16708	SPS	'MUSTG5 118.0 230KV'	210	0.25693	-0.42401	110	
SPS	'Lubbock Power and Light'	172	-0.00597	SPS	'MUSTG5 118.0 230KV'	210	0.25693	-0.2629	177	
SPS	'NICHOLS 115KV'	213	0.00259	SPS	'MUSTG5 118.0 230KV'	210	0.25693	-0.25434	183	
SPS	'NICHOLS 230KV'	244	0.00269	SPS	'MUSTG5 118.0 230KV'	210	0.25693	-0.25424	183	
SPS	'PLANTX 115KV'	253	0.0047	SPS	'MUSTG5 118.0 230KV'	210	0.25693	-0.25223	184	
SPS	'PLANTX 230KV'	151	0.0094	SPS	'MUSTG5 118.0 230KV'	210	0.25693	-0.24753	188	
SPS	'MADOX 115KV'	88	-0.21303	SPS	'TOLK 230KV'	1025	0.00799	-0.22102	210	
SPS	'CUNNINGHAM 115KV'	110	-0.21041	SPS	'TOLK 230KV'	1025	0.00799	-0.2184	213	
SPS	'CUNNINGHAM 115KV'	71	-0.21041	SPS	'TOLK 230KV'	1025	0.00799	-0.2184	213	
SPS	'MADOX 115KV'	88	-0.21303	SPS	'BLACKHAWK 115KV'	220	0.00263	-0.21566	216	
SPS	'MADOX 115KV'	88	-0.21303	SPS	'HARRINGTON 230KV'	1066	0.00272	-0.21575	216	
SPS	'CUNNINGHAM 115KV'	110	-0.21041	SPS	'BLACKHAWK 115KV'	220	0.00263	-0.21304	218	
SPS	'CUNNINGHAM 115KV'	110	-0.21041	SPS	'HARRINGTON 230KV'	1066	0.00272	-0.21313	218	
SPS	'MADOX 115KV'	88	-0.21303	SPS	'JONES 230KV'	486	-0.00537	-0.20766	224	
SPS	'CUNNINGHAM 115KV'	110	-0.21041	SPS	'JONES 230KV'	486	-0.00537	-0.20504	227	
SPS	'CUNNINGHAM 230KV'	306	-0.16708	SPS	'TOLK 230KV'	1025	0.00799	-0.17507	266	
SPS	'CUNNINGHAM 230KV'	306	-0.16708	SPS	'BLACKHAWK 115KV'	220	0.00263	-0.16971	274	
SPS	'CUNNINGHAM 230KV'	306	-0.16708	SPS	'HARRINGTON 230KV'	1066	0.00272	-0.1698	274	
SPS	'CUNNINGHAM 230KV'	306	-0.16708	SPS	'JONES 230KV'	486	-0.00537	-0.16171	288	

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: MUSTANG STATION 230/115KV TRANSFORMER CKT 1  
 Limiting Facility: MUSTANG STATION 230/115KV TRANSFORMER CKT 1  
 Direction: From->To  
 Line Outage: LEA COUNTY INTERCHANGE - YOAKUM COUNTY INTERCHANGE 230KV CKT 1  
 Flowgate: 51966519691522055189112407SH  
 Date Redispatch Needed: 6/1 - 10/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Summer Shoulder

Reservation	Relief Amount	Aggregate Relief Amount								
1090487	27.0	30								
1090695	2.9	30								
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)	
SPS	'CUNNINGHAM 115KV'	110	-0.21044	SPS	'MUSTG5 118.0 230KV'	210	0.2569	-0.46734	64	
SPS	'CUNNINGHAM 115KV'	71	-0.21044	SPS	'MUSTG5 118.0 230KV'	210	0.2569	-0.46734	64	
SPS	'MADOX 115KV'	75	-0.21306	SPS	'MUSTG5 118.0 230KV'	210	0.2569	-0.46996	64	
SPS	'CUNNINGHAM 230KV'	110	-0.1671	SPS	'MUSTG5 118.0 230KV'	210	0.2569	-0.424	71	
SPS	'Lubbock Power and Light'	152	-0.00614	SPS	'MUSTG5 118.0 230KV'	210	0.2569	-0.26304	114	
SPS	'MOORE COUNTY 115KV'	48	0.00285	SPS	'MUSTG5 118.0 230KV'	210	0.2569	-0.25405	118	
SPS	'NICHOLS 115KV'	131	0.00266	SPS	'MUSTG5 118.0 230KV'	210	0.2569	-0.25424	118	
SPS	'NICHOLS 230KV'	244	0.00276	SPS	'MUSTG5 118.0 230KV'	210	0.2569	-0.25414	118	
SPS	'PLANTX 115KV'	49	0.00491	SPS	'MUSTG5 118.0 230KV'	210	0.2569	-0.25199	119	
SPS	'MADOX 115KV'	75	-0.21306	SPS	'PLANTX 230KV'	189	0.00946	-0.22252	135	
SPS	'MADOX 115KV'	75	-0.21306	SPS	'TOLK 230KV'	1027	0.00803	-0.22109	135	
SPS	'CUNNINGHAM 115KV'	110	-0.21044	SPS	'PLANTX 230KV'	189	0.00946	-0.2199	136	
SPS	'CUNNINGHAM 115KV'	71	-0.21044	SPS	'PLANTX 230KV'	189	0.00946	-0.2199	136	
SPS	'CUNNINGHAM 115KV'	110	-0.21044	SPS	'TOLK 230KV'	1027	0.00803	-0.21847	137	
SPS	'CUNNINGHAM 115KV'	71	-0.21044	SPS	'TOLK 230KV'	1027	0.00803	-0.21847	137	
SPS	'MADOX 115KV'	75	-0.21306	SPS	'PLANTX 115KV'	204	0.00491	-0.21797	137	
SPS	'CUNNINGHAM 115KV'	110	-0.21044	SPS	'PLANTX 115KV'	204	0.00491	-0.21535	139	
SPS	'CUNNINGHAM 115KV'	71	-0.21044	SPS	'PLANTX 115KV'	204	0.00491	-0.21535	139	
SPS	'MADOX 115KV'	75	-0.21306	SPS	'BLACKHAWK 115KV'	220	0.0027	-0.21576	139	
SPS	'MADOX 115KV'	75	-0.21306	SPS	'HARRINGTON 230KV'	1066	0.00279	-0.21585	139	
SPS	'MADOX 115KV'	75	-0.21306	SPS	'NICHOLS 115KV'	82	0.00266	-0.21572	139	
SPS	'CUNNINGHAM 115KV'	110	-0.21044	SPS	'HARRINGTON 230KV'	1066	0.00279	-0.21323	140	
SPS	'CUNNINGHAM 115KV'	71	-0.21044	SPS	'HARRINGTON 230KV'	1066	0.00279	-0.21323	140	
SPS	'CUNNINGHAM 115KV'	110	-0.21044	SPS	'BLACKHAWK 115KV'	220	0.0027	-0.21314	141	
SPS	'CUNNINGHAM 115KV'	71	-0.21044	SPS	'BLACKHAWK 115KV'	220	0.0027	-0.21314	141	
SPS	'CUNNINGHAM 115KV'	110	-0.21044	SPS	'NICHOLS 115KV'	82	0.00266	-0.2131	141	
SPS	'CUNNINGHAM 115KV'	71	-0.21044	SPS	'NICHOLS 115KV'	82	0.00266	-0.2131	141	
SPS	'MADOX 115KV'	75	-0.21306	SPS	'JONES 230KV'	486	-0.00554	-0.20752	144	
SPS	'MADOX 115KV'	75	-0.21306	SPS	'LP-BRND2 69KV'	80	-0.00614	-0.20692	145	
SPS	'CUNNINGHAM 115KV'	110	-0.21044	SPS	'JONES 230KV'	486	-0.00554	-0.2049	146	
SPS	'CUNNINGHAM 115KV'	71	-0.21044	SPS	'JONES 230KV'	486	-0.00554	-0.2049	146	

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

SPS	'CUNNINGHAM 115KV'	110	-0.21044	SPS	'LP-BRND2 69KV'	80	-0.00614	-0.2043	147
SPS	'CUNNINGHAM 115KV'	71	-0.21044	SPS	'LP-BRND2 69KV'	80	-0.00614	-0.2043	147
SPS	'CUNNINGHAM 230KV'	110	-0.1671	SPS	'PLANTX 230KV'	189	0.00946	-0.17656	170
SPS	'CUNNINGHAM 230KV'	110	-0.1671	SPS	'TOLK 230KV'	1027	0.00803	-0.17513	171
SPS	'CUNNINGHAM 230KV'	110	-0.1671	SPS	'PLANTX 115KV'	204	0.00491	-0.17201	174
SPS	'CUNNINGHAM 230KV'	110	-0.1671	SPS	'BLACKHAWK 115KV'	220	0.0027	-0.1698	176
SPS	'CUNNINGHAM 230KV'	110	-0.1671	SPS	'HARRINGTON 230KV'	1066	0.00279	-0.16989	176
SPS	'CUNNINGHAM 230KV'	110	-0.1671	SPS	'NICHOLS 115KV'	82	0.00266	-0.16976	176
SPS	'CUNNINGHAM 230KV'	110	-0.1671	SPS	'JONES 230KV'	486	-0.00554	-0.16156	185
SPS	'CUNNINGHAM 230KV'	110	-0.1671	SPS	'LP-BRND2 69KV'	80	-0.00614	-0.16096	186

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: MUSTANG STATION 230/115KV TRANSFORMER CKT 1  
 Limiting Facility: MUSTANG STATION 230/115KV TRANSFORMER CKT 1  
 Direction: From->To  
 Line Outage: LEA COUNTY INTERCHANGE - YOAKUM COUNTY INTERCHANGE 230KV CKT 1  
 Flowgate: 51966519691522055189112407SP  
 Date Redispatch Needed: 6/1/07 - 10/1/07  
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount	Source Control Area		Sink		Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
1090487	42.2	46	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
1090695	3.9	46								
SPS	'MADOX 115KV'	75	-0.21306	SPS	'MUSTG5 118.0 230KV'	360	0.2569	-0.46996	98	
SPS	'CUNNINGHAM 115KV'	71	-0.21043	SPS	'MUSTG5 118.0 230KV'	360	0.2569	-0.46733	99	
SPS	'Lubbock Power and Light'	152	-0.00614	SPS	'MUSTG5 118.0 230KV'	360	0.2569	-0.26304	175	
SPS	'NICHOLS 115KV'	66	0.00266	SPS	'MUSTG5 118.0 230KV'	360	0.2569	-0.25424	181	
SPS	'NICHOLS 230KV'	127	0.00276	SPS	'MUSTG5 118.0 230KV'	360	0.2569	-0.25414	181	
SPS	'MADOX 115KV'	75	-0.21306	SPS	'PLANTX 230KV'	189	0.00946	-0.22252	207	
SPS	'MADOX 115KV'	75	-0.21306	SPS	'TOLK 230KV'	1033	0.00803	-0.22109	209	
SPS	'CUNNINGHAM 115KV'	71	-0.21043	SPS	'PLANTX 230KV'	189	0.00946	-0.21989	210	
SPS	'CUNNINGHAM 115KV'	71	-0.21043	SPS	'TOLK 230KV'	1033	0.00803	-0.21846	211	
SPS	'MADOX 115KV'	75	-0.21306	SPS	'PLANTX 115KV'	205	0.00491	-0.21797	212	
SPS	'MADOX 115KV'	75	-0.21306	SPS	'BLACKHAWK 115KV'	220	0.00271	-0.21577	214	
SPS	'MADOX 115KV'	75	-0.21306	SPS	'HARRINGTON 230KV'	1066	0.00279	-0.21585	214	
SPS	'MADOX 115KV'	75	-0.21306	SPS	'NICHOLS 115KV'	147	0.00266	-0.21572	214	
SPS	'MADOX 115KV'	75	-0.21306	SPS	'NICHOLS 230KV'	117	0.00276	-0.21582	214	
SPS	'MADOX 115KV'	75	-0.21306	SPS	'JONES 230KV'	486	-0.00554	-0.20752	222	
SPS	'MADOX 115KV'	75	-0.21306	SPS	'LP-BRND2 69KV'	80	-0.00614	-0.20692	223	

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: MUSTANG STATION 230/115KV TRANSFORMER CKT 1  
 Limiting Facility: MUSTANG STATION 230/115KV TRANSFORMER CKT 1  
 Direction: From->To  
 Line Outage: LEA COUNTY INTERCHANGE - YOAKUM COUNTY INTERCHANGE 230KV CKT 1  
 Flowgate: 51966519691522055189112407WP  
 Date Redispatch Needed: 12/1/07 - 4/1/08  
 Season Flowgate Identified: 2007 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount	Source Control Area		Sink		Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
1090487	20.6	22	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
1090695	1.6	22								
SPS	'MUSTANG 115KV'	29	-0.38907	SPS	'MUSTG5 118.0 230KV'	210	0.25693	-0.646	34	
SPS	'CUNNINGHAM 115KV'	110	-0.21041	SPS	'MUSTG5 118.0 230KV'	210	0.25693	-0.46734	47	
SPS	'CUNNINGHAM 115KV'	71	-0.21041	SPS	'MUSTG5 118.0 230KV'	210	0.25693	-0.46734	47	
SPS	'MADOX 115KV'	103	-0.21303	SPS	'MUSTG5 118.0 230KV'	210	0.25693	-0.46996	47	
SPS	'CUNNINGHAM 230KV'	110	-0.16707	SPS	'MUSTG5 118.0 230KV'	210	0.25693	-0.424	52	
SPS	'MUSTANG 115KV'	29	-0.38907	SPS	'HARRINGTON 230KV'	1066	0.00272	-0.39179	56	
SPS	'MUSTANG 115KV'	29	-0.38907	SPS	'TOLK 230KV'	1023	0.00799	-0.39706	56	
SPS	'MUSTANG 115KV'	29	-0.38907	SPS	'WILWIND 230KV'	48	0.00376	-0.39283	56	
SPS	'MUSTANG 115KV'	29	-0.38907	SPS	'BLACKHAWK 115KV'	220	0.00263	-0.3917	57	
SPS	'MUSTANG 115KV'	29	-0.38907	SPS	'CZ 69KV'	35	0.00241	-0.39148	57	
SPS	'MUSTANG 115KV'	29	-0.38907	SPS	'STEER WATER 115KV'	24	0.0025	-0.39157	57	
SPS	'MUSTANG 115KV'	29	-0.38907	SPS	'CAPROCK 115KV'	24	-0.00496	-0.38411	58	
SPS	'MUSTANG 115KV'	29	-0.38907	SPS	'JONES 230KV'	243	-0.00537	-0.3837	58	
SPS	'MUSTANG 115KV'	29	-0.38907	SPS	'LP-BRND2 69KV'	60	-0.00597	-0.3831	58	
SPS	'MUSTANG 115KV'	29	-0.38907	SPS	'SAN JUAN 230KV'	36	-0.03785	-0.35122	63	
SPS	'Lubbock Power and Light'	172	-0.00597	SPS	'MUSTG5 118.0 230KV'	210	0.25693	-0.2629	84	
SPS	'MOORE COUNTY 115KV'	48	0.00279	SPS	'MUSTG5 118.0 230KV'	210	0.25693	-0.25414	87	
SPS	'NICHOLS 115KV'	213	0.00259	SPS	'MUSTG5 118.0 230KV'	210	0.25693	-0.25434	87	
SPS	'NICHOLS 230KV'	244	0.00269	SPS	'MUSTG5 118.0 230KV'	210	0.25693	-0.25424	87	
SPS	'PLANTX 115KV'	253	0.0047	SPS	'MUSTG5 118.0 230KV'	210	0.25693	-0.25223	88	
SPS	'PLANTX 230KV'	189	0.00941	SPS	'MUSTG5 118.0 230KV'	210	0.25693	-0.24752	89	
SPS	'MADOX 115KV'	103	-0.21303	SPS	'TOLK 230KV'	1023	0.00799	-0.22102	100	
SPS	'CUNNINGHAM 115KV'	110	-0.21041	SPS	'TOLK 230KV'	1023	0.00799	-0.2184	101	
SPS	'CUNNINGHAM 115KV'	71	-0.21041	SPS	'TOLK 230KV'	1023	0.00799	-0.2184	101	
SPS	'MADOX 115KV'	103	-0.21303	SPS	'WILWIND 230KV'	48	0.00376	-0.21679	102	
SPS	'CUNNINGHAM 115KV'	110	-0.21041	SPS	'WILWIND 230KV'	48	0.00376	-0.21417	103	
SPS	'CUNNINGHAM 115KV'	71	-0.21041	SPS	'WILWIND 230KV'	48	0.00376	-0.21417	103	
SPS	'MADOX 115KV'	103	-0.21303	SPS	'BLACKHAWK 115KV'	220	0.00263	-0.21566	103	
SPS	'MADOX 115KV'	103	-0.21303	SPS	'CZ 69KV'	35	0.00241	-0.21544	103	
SPS	'MADOX 115KV'	103	-0.21303	SPS	'HARRINGTON 230KV'	1066	0.00272	-0.21575	103	

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

SPS	'CUNNINGHAM 115KV'	110	-0.21041	SPS	'BLACKHAWK 115KV'	220	0.00263	-0.21304	104
SPS	'CUNNINGHAM 115KV'	71	-0.21041	SPS	'BLACKHAWK 115KV'	220	0.00263	-0.21304	104
SPS	'CUNNINGHAM 115KV'	110	-0.21041	SPS	'CZ 69KV'	35	0.00241	-0.21282	104
SPS	'CUNNINGHAM 115KV'	71	-0.21041	SPS	'CZ 69KV'	35	0.00241	-0.21282	104
SPS	'CUNNINGHAM 115KV'	110	-0.21041	SPS	'HARRINGTON 230KV'	1066	0.00272	-0.21313	104
SPS	'CUNNINGHAM 230KV'	71	-0.21041	SPS	'HARRINGTON 230KV'	1066	0.00272	-0.21313	104
SPS	'MADOX 115KV'	103	-0.21303	SPS	'JONES 230KV'	243	-0.00537	-0.20766	107
SPS	'MADOX 115KV'	103	-0.21303	SPS	'LP-BRND2 69KV'	60	-0.00597	-0.20706	107
SPS	'CUNNINGHAM 115KV'	110	-0.21041	SPS	'JONES 230KV'	243	-0.00537	-0.20504	108
SPS	'CUNNINGHAM 115KV'	71	-0.21041	SPS	'JONES 230KV'	243	-0.00537	-0.20504	108
SPS	'CUNNINGHAM 115KV'	110	-0.21041	SPS	'LP-BRND2 69KV'	60	-0.00597	-0.20444	108
SPS	'CUNNINGHAM 115KV'	71	-0.21041	SPS	'LP-BRND2 69KV'	60	-0.00597	-0.20444	108
SPS	'CUNNINGHAM 230KV'	110	-0.16707	SPS	'TOLK 230KV'	1023	0.00799	-0.17506	126
SPS	'CUNNINGHAM 230KV'	110	-0.16707	SPS	'BLACKHAWK 115KV'	220	0.00263	-0.1697	130
SPS	'CUNNINGHAM 230KV'	110	-0.16707	SPS	'HARRINGTON 230KV'	1066	0.00272	-0.16979	130
SPS	'CUNNINGHAM 230KV'	110	-0.16707	SPS	'WILWIND 230KV'	48	0.00376	-0.17083	130
SPS	'CUNNINGHAM 230KV'	110	-0.16707	SPS	'JONES 230KV'	243	-0.00537	-0.1617	137
SPS	'CUNNINGHAM 230KV'	110	-0.16707	SPS	'LP-BRND2 69KV'	60	-0.00597	-0.1611	137

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: MUSTANG STATION 230/115KV TRANSFORMER CKT 1  
 Limiting Facility: MUSTANG STATION 230/115KV TRANSFORMER CKT 1  
 Direction: From->To  
 Line Outage: LEA COUNTY INTERCHANGE - YOAKUM COUNTY INTERCHANGE 230KV CKT 1  
 Flowgate: 51966519691522055189113407AP  
 Date Redispatch Needed: Starting 2007 4/1 - 6/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 April Minimum

Reservation	Relief Amount	Aggregate Relief Amount
1090487	20.3	26
1090695	5.7	26

Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
SPS	'MUSTANG 115KV'	150	-0.3891	SPS	'MUSTG5 118.0 230KV'	125	0.25691	-0.64601	40
SPS	'MADOX 115KV'	193	-0.21305	SPS	'MUSTG5 118.0 230KV'	125	0.25691	-0.46996	55
SPS	'CUNNINGHAM 115KV'	110	-0.21043	SPS	'MUSTG5 118.0 230KV'	125	0.25691	-0.46734	56
SPS	'CUNNINGHAM 115KV'	71	-0.21043	SPS	'MUSTG5 118.0 230KV'	125	0.25691	-0.46734	56
SPS	'CUNNINGHAM 230KV'	250	-0.16709	SPS	'MUSTG5 118.0 230KV'	125	0.25691	-0.424	61
SPS	'MUSTANG 115KV'	150	-0.3891	SPS	'TOLK 230KV'	1014	0.00804	-0.39714	65
SPS	'MUSTANG 115KV'	150	-0.3891	SPS	'BLACKHAWK 115KV'	220	0.00272	-0.39182	66
SPS	'MUSTANG 115KV'	150	-0.3891	SPS	'CZ 69KV'	35	0.00249	-0.39159	66
SPS	'MUSTANG 115KV'	150	-0.3891	SPS	'HARRINGTON 230KV'	684	0.0028	-0.3919	66
SPS	'MUSTANG 115KV'	150	-0.3891	SPS	'STEER WATER 115KV'	36	0.00258	-0.39168	66
SPS	'MUSTANG 115KV'	150	-0.3891	SPS	'WILWIND 230KV'	72	0.00385	-0.39295	66
SPS	'MUSTANG 115KV'	150	-0.3891	SPS	'CAPROCK 115KV'	36	-0.00491	-0.38419	68
SPS	'MUSTANG 115KV'	150	-0.3891	SPS	'JONES 230KV'	104	-0.00553	-0.38357	68
SPS	'MUSTANG 115KV'	150	-0.3891	SPS	'SAN JUAN 230KV'	54	-0.03782	-0.35128	74
SPS	'Lubbock Power and Light'	232	-0.00613	SPS	'MUSTG5 118.0 230KV'	125	0.25691	-0.26304	99
SPS	'HARRINGTON 230KV'	382	0.0028	SPS	'MUSTG5 118.0 230KV'	125	0.25691	-0.25411	102
SPS	'MOORE COUNTY 115KV'	48	0.00287	SPS	'MUSTG5 118.0 230KV'	125	0.25691	-0.25404	102
SPS	'NICHOLS 115KV'	213	0.00267	SPS	'MUSTG5 118.0 230KV'	125	0.25691	-0.25424	102
SPS	'NICHOLS 230KV'	244	0.00277	SPS	'MUSTG5 118.0 230KV'	125	0.25691	-0.25414	102
SPS	'PLANTX 115KV'	253	0.00492	SPS	'MUSTG5 118.0 230KV'	125	0.25691	-0.25199	103
SPS	'PLANTX 230KV'	189	0.00947	SPS	'MUSTG5 118.0 230KV'	125	0.25691	-0.24744	105
SPS	'MADOX 115KV'	193	-0.21305	SPS	'TOLK 230KV'	1014	0.00804	-0.22109	117
SPS	'MUSTANG 115KV'	150	-0.3891	SPS	'CUNNINGHAM 230KV'	56	-0.16709	-0.22201	117
SPS	'CUNNINGHAM 115KV'	110	-0.21043	SPS	'TOLK 230KV'	1014	0.00804	-0.21847	119
SPS	'CUNNINGHAM 115KV'	71	-0.21043	SPS	'TOLK 230KV'	1014	0.00804	-0.21847	119
SPS	'MADOX 115KV'	193	-0.21305	SPS	'BLACKHAWK 115KV'	220	0.00272	-0.21577	120
SPS	'MADOX 115KV'	193	-0.21305	SPS	'HARRINGTON 230KV'	684	0.0028	-0.21585	120
SPS	'MADOX 115KV'	193	-0.21305	SPS	'WILWIND 230KV'	72	0.00385	-0.2169	120
SPS	'CUNNINGHAM 115KV'	110	-0.21043	SPS	'WILWIND 230KV'	72	0.00385	-0.21428	121
SPS	'CUNNINGHAM 115KV'	71	-0.21043	SPS	'WILWIND 230KV'	72	0.00385	-0.21428	121
SPS	'CUNNINGHAM 115KV'	110	-0.21043	SPS	'BLACKHAWK 115KV'	220	0.00272	-0.21315	122
SPS	'CUNNINGHAM 115KV'	71	-0.21043	SPS	'BLACKHAWK 115KV'	220	0.00272	-0.21315	122
SPS	'CUNNINGHAM 115KV'	110	-0.21043	SPS	'HARRINGTON 230KV'	684	0.0028	-0.21323	122
SPS	'CUNNINGHAM 115KV'	71	-0.21043	SPS	'HARRINGTON 230KV'	684	0.0028	-0.21323	122
SPS	'MADOX 115KV'	193	-0.21305	SPS	'JONES 230KV'	104	-0.00553	-0.20752	125
SPS	'CUNNINGHAM 115KV'	110	-0.21043	SPS	'JONES 230KV'	104	-0.00553	-0.2049	127
SPS	'CUNNINGHAM 115KV'	71	-0.21043	SPS	'JONES 230KV'	104	-0.00553	-0.2049	127
SPS	'CUNNINGHAM 230KV'	250	-0.16709	SPS	'TOLK 230KV'	1014	0.00804	-0.17513	148
SPS	'MADOX 115KV'	193	-0.21305	SPS	'SAN JUAN 230KV'	54	-0.03782	-0.17523	148
SPS	'CUNNINGHAM 115KV'	110	-0.21043	SPS	'SAN JUAN 230KV'	54	-0.03782	-0.17261	150
SPS	'CUNNINGHAM 115KV'	71	-0.21043	SPS	'SAN JUAN 230KV'	54	-0.03782	-0.17261	150
SPS	'CUNNINGHAM 230KV'	250	-0.16709	SPS	'WILWIND 230KV'	72	0.00385	-0.17094	152
SPS	'CUNNINGHAM 230KV'	250	-0.16709	SPS	'BLACKHAWK 115KV'	220	0.00272	-0.16981	153
SPS	'CUNNINGHAM 230KV'	250	-0.16709	SPS	'HARRINGTON 230KV'	684	0.0028	-0.16989	153
SPS	'CUNNINGHAM 230KV'	250	-0.16709	SPS	'JONES 230KV'	104	-0.00553	-0.16156	161

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: Mustang-San Andr-Amerada Hess 115KV  
 Limiting Facility: DENVER CITY INTERCHANGE N - MUSTANG STATION 115KV CKT 1  
 Direction: To->From  
 Line Outage: DENVER CITY INTERCHANGE S - MUSTANG STATION 115KV CKT 1  
 Flowgate: 51960519661519625196811107SP  
 Date Redispatch Needed: 6/1/07 - 10/1/07  
 Season Flowgate Identified: 2007 Summer Peak

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

Reservation	Relief Amount	Aggregate Relief Amount								
1090487	23.8	28								
1090695	4.3	28								
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)	
SPS	'CUNNINGHAM 115KV'	21	-0.1616	SPS	'MUSTANG 115KV'	300	0.42989	-0.59149	47	
SPS	'MADOX 115KV'	75	-0.16457	SPS	'MUSTANG 115KV'	300	0.42989	-0.59446	47	
SPS	'Lubbock Power and Light'	152	-0.00262	SPS	'MUSTANG 115KV'	300	0.42989	-0.43251	65	
SPS	'NICHOLS 115KV'	66	0.0012	SPS	'MUSTANG 115KV'	300	0.42989	-0.42869	65	
SPS	'NICHOLS 230KV'	97	0.00125	SPS	'MUSTANG 115KV'	300	0.42989	-0.42864	65	
SPS	'RIVERVIEW 69KV'	23	0.00122	SPS	'MUSTANG 115KV'	300	0.42989	-0.42867	65	
SPS	'PLANTX 115KV'	48	0.00215	SPS	'MUSTANG 115KV'	300	0.42989	-0.42774	66	
SPS	'MADOX 115KV'	75	-0.16457	SPS	'MUSTG5 118.0 230KV'	360	0.15053	-0.3151	89	
SPS	'MADOX 115KV'	75	-0.16457	SPS	'PLANTX 230KV'	189	0.00434	-0.16891	166	
SPS	'MADOX 115KV'	75	-0.16457	SPS	'TOLK 230KV'	1037	0.00363	-0.1682	167	
SPS	'MADOX 115KV'	75	-0.16457	SPS	'PLANTX 115KV'	205	0.00215	-0.16672	168	
SPS	'MADOX 115KV'	75	-0.16457	SPS	'BLACKHAWK 115KV'	220	0.00122	-0.16579	169	
SPS	'MADOX 115KV'	75	-0.16457	SPS	'HARRINGTON 230KV'	1066	0.00126	-0.16583	169	
SPS	'MADOX 115KV'	75	-0.16457	SPS	'NICHOLS 115KV'	147	0.0012	-0.16577	169	
SPS	'MADOX 115KV'	75	-0.16457	SPS	'NICHOLS 230KV'	147	0.00125	-0.16582	169	
SPS	'MADOX 115KV'	75	-0.16457	SPS	'STEER WATER 115KV'	80	0.00116	-0.16573	169	
SPS	'MADOX 115KV'	75	-0.16457	SPS	'WILWIND 230KV'	160	0.00173	-0.1663	169	
SPS	'MADOX 115KV'	75	-0.16457	SPS	'CAPROCK 115KV'	80	-0.00272	-0.16185	173	
SPS	'MADOX 115KV'	75	-0.16457	SPS	'JONES 230KV'	486	-0.00227	-0.1623	173	
SPS	'MADOX 115KV'	75	-0.16457	SPS	'LP-BRND2 69KV'	80	-0.00262	-0.16195	173	
SPS	'Lubbock Power and Light'	152	-0.00262	SPS	'MUSTG5 118.0 230KV'	360	0.15053	-0.15315	183	
SPS	'NICHOLS 115KV'	66	0.0012	SPS	'MUSTG5 118.0 230KV'	360	0.15053	-0.14933	188	
SPS	'NICHOLS 230KV'	97	0.00125	SPS	'MUSTG5 118.0 230KV'	360	0.15053	-0.14928	188	
SPS	'MADOX 115KV'	75	-0.16457	SPS	'SAN JUAN 230KV'	120	-0.01892	-0.14565	193	

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: Mustang-San Andr-Amerada Hess 115KV  
 Limiting Facility: DENVER CITY INTERCHANGE N - MUSTANG STATION 115KV CKT 1  
 Direction: To->From  
 Line Outage: DENVER CITY INTERCHANGE S - MUSTANG STATION 115KV CKT 1  
 Flowgate: 51960519661519625196811407G  
 Date Redispatch Needed: Starting 2007 4/1 - 6/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Spring Peak

Reservation	Relief Amount	Aggregate Relief Amount								
1090487	1.8	2								
1090695	0.1	2								
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)	
SPS	'CUNNINGHAM 115KV'	71	-0.16159	SPS	'MUSTANG 115KV'	300	0.4299	-0.59149	3	
SPS	'MADOX 115KV'	75	-0.16457	SPS	'MUSTANG 115KV'	300	0.4299	-0.59447	3	
SPS	'CARLSBAD 69KV'	18	-0.07656	SPS	'MUSTANG 115KV'	300	0.4299	-0.50646	4	
SPS	'CZ 69KV'	4	0.00112	SPS	'MUSTANG 115KV'	300	0.4299	-0.42878	4	
SPS	'HARRINGTON 230KV'	360	0.00127	SPS	'MUSTANG 115KV'	300	0.4299	-0.42863	4	
SPS	'HUBRCO2 69KV'	6	0.00123	SPS	'MUSTANG 115KV'	300	0.4299	-0.42867	4	
SPS	'Lubbock Power and Light'	152	-0.00262	SPS	'MUSTANG 115KV'	300	0.4299	-0.43252	4	
SPS	'MOORE COUNTY 115KV'	48	0.00129	SPS	'MUSTANG 115KV'	300	0.4299	-0.42861	4	
SPS	'NICHOLS 115KV'	129	0.0012	SPS	'MUSTANG 115KV'	300	0.4299	-0.4287	4	
SPS	'NICHOLS 230KV'	244	0.00125	SPS	'MUSTANG 115KV'	300	0.4299	-0.42865	4	
SPS	'PLANTX 115KV'	48	0.00215	SPS	'MUSTANG 115KV'	300	0.4299	-0.42775	4	
SPS	'RIVERVIEW 69KV'	23	0.00123	SPS	'MUSTANG 115KV'	300	0.4299	-0.42867	4	
SPS	'SIDRCH 69KV'	6	0.00123	SPS	'MUSTANG 115KV'	300	0.4299	-0.42867	4	
SPS	'TUCUMCARI 115KV'	15	-0.00271	SPS	'MUSTANG 115KV'	300	0.4299	-0.43261	4	
SPS	'CUNNINGHAM 115KV'	71	-0.16159	SPS	'MUSTG5 118.0 230KV'	210	0.15054	-0.31213	6	
SPS	'MADOX 115KV'	75	-0.16457	SPS	'MUSTG5 118.0 230KV'	210	0.15054	-0.31511	6	
SPS	'MUSTG5 118.0 230KV'	150	0.15054	SPS	'MUSTANG 115KV'	300	0.4299	-0.27936	6	
SPS	'CARLSBAD 69KV'	18	-0.07656	SPS	'MUSTG5 118.0 230KV'	210	0.15054	-0.2271	8	
SPS	'CUNNINGHAM 115KV'	71	-0.16159	SPS	'BLACKHAWK 115KV'	220	0.00123	-0.16282	11	
SPS	'CUNNINGHAM 115KV'	71	-0.16159	SPS	'CAPROCK 115KV'	36	-0.00271	-0.15888	11	
SPS	'CUNNINGHAM 115KV'	71	-0.16159	SPS	'CZ 69KV'	35	0.00112	-0.16271	11	
SPS	'CUNNINGHAM 115KV'	71	-0.16159	SPS	'HARRINGTON 230KV'	706	0.00127	-0.16286	11	
SPS	'CUNNINGHAM 115KV'	71	-0.16159	SPS	'HUBRCO2 69KV'	5	0.00123	-0.16282	11	
SPS	'CUNNINGHAM 115KV'	71	-0.16159	SPS	'JONES 230KV'	486	-0.00227	-0.15932	11	
SPS	'CUNNINGHAM 115KV'	71	-0.16159	SPS	'LP-BRND2 69KV'	80	-0.00262	-0.15897	11	
SPS	'CUNNINGHAM 115KV'	71	-0.16159	SPS	'NICHOLS 115KV'	84	0.0012	-0.16279	11	
SPS	'CUNNINGHAM 115KV'	71	-0.16159	SPS	'PLANTX 115KV'	205	0.00215	-0.16374	11	
SPS	'CUNNINGHAM 115KV'	71	-0.16159	SPS	'PLANTX 230KV'	189	0.00434	-0.16593	11	
SPS	'CUNNINGHAM 115KV'	71	-0.16159	SPS	'SIDRCH 69KV'	14	0.00123	-0.16282	11	
SPS	'CUNNINGHAM 115KV'	71	-0.16159	SPS	'STEER WATER 115KV'	36	0.00116	-0.16275	11	
SPS	'CUNNINGHAM 115KV'	71	-0.16159	SPS	'TOLK 230KV'	1023	0.00364	-0.16523	11	
SPS	'CUNNINGHAM 115KV'	71	-0.16159	SPS	'WILWIND 230KV'	72	0.00174	-0.16333	11	
SPS	'MADOX 115KV'	75	-0.16457	SPS	'BLACKHAWK 115KV'	220	0.00123	-0.1658	11	
SPS	'MADOX 115KV'	75	-0.16457	SPS	'CAPROCK 115KV'	36	-0.00271	-0.16186	11	
SPS	'MADOX 115KV'	75	-0.16457	SPS	'CZ 69KV'	35	0.00112	-0.16569	11	
SPS	'MADOX 115KV'	75	-0.16457	SPS	'HARRINGTON 230KV'	706	0.00127	-0.16584	11	
SPS	'MADOX 115KV'	75	-0.16457	SPS	'HUBRCO2 69KV'	5	0.00123	-0.1658	11	
SPS	'MADOX 115KV'	75	-0.16457	SPS	'JONES 230KV'	486	-0.00227	-0.1623	11	
SPS	'MADOX 115KV'	75	-0.16457	SPS	'LP-BRND2 69KV'	80	-0.00262	-0.16195	11	
SPS	'MADOX 115KV'	75	-0.16457	SPS	'NICHOLS 115KV'	84	0.0012	-0.16577	11	
SPS	'MADOX 115KV'	75	-0.16457	SPS	'PLANTX 115KV'	205	0.00215	-0.16672	11	
SPS	'MADOX 115KV'	75	-0.16457	SPS	'PLANTX 230KV'	189	0.00434	-0.16891	11	
SPS	'MADOX 115KV'	75	-0.16457	SPS	'SIDRCH 69KV'	14	0.00123	-0.1658	11	
SPS	'MADOX 115KV'	75	-0.16457	SPS	'STEER WATER 115KV'	36	0.00116	-0.16573	11	

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

SPS	'MADOX 115KV'	75	-0.16457	SPS	'TOLK 230KV'	1023	0.00364	-0.16821	11
SPS	'MADOX 115KV'	75	-0.16457	SPS	'WILWIND 230KV'	72	0.00174	-0.16631	11
SPS	'CZ 69KV'	4	0.00112	SPS	'MUSTG5 118.0 230KV'	210	0.15054	-0.14942	12
SPS	'HARRINGTON 230KV'	360	0.00127	SPS	'MUSTG5 118.0 230KV'	210	0.15054	-0.14927	12
SPS	'HUBRCO2 69KV'	6	0.00123	SPS	'MUSTG5 118.0 230KV'	210	0.15054	-0.14931	12
SPS	'Lubbock Power and Light'	152	-0.00262	SPS	'MUSTG5 118.0 230KV'	210	0.15054	-0.15316	12
SPS	'MADOX 115KV'	75	-0.16457	SPS	'SAN JUAN 230KV'	54	-0.01891	-0.14566	12
SPS	'MOORE COUNTY 115KV'	48	0.00129	SPS	'MUSTG5 118.0 230KV'	210	0.15054	-0.14925	12
SPS	'NICHOLS 115KV'	129	0.0012	SPS	'MUSTG5 118.0 230KV'	210	0.15054	-0.14934	12
SPS	'NICHOLS 230KV'	244	0.00125	SPS	'MUSTG5 118.0 230KV'	210	0.15054	-0.14929	12
SPS	'PLANTX 115KV'	48	0.00215	SPS	'MUSTG5 118.0 230KV'	210	0.15054	-0.14839	12
SPS	'RIVERVIEW 69KV'	23	0.00123	SPS	'MUSTG5 118.0 230KV'	210	0.15054	-0.14931	12
SPS	'SIDRCH 69KV'	6	0.00123	SPS	'MUSTG5 118.0 230KV'	210	0.15054	-0.14931	12
SPS	'TUCUMCARI 115KV'	15	-0.00271	SPS	'MUSTG5 118.0 230KV'	210	0.15054	-0.15325	12
SPS	'CUNNINGHAM 115KV'	71	-0.16159	SPS	'SAN JUAN 230KV'	54	-0.01891	-0.14268	13
SPS	'CUNNINGHAM 115KV'	71	-0.16159	SPS	'CUNNINGHAM 230KV'	306	-0.07305	-0.08854	20
SPS	'MADOX 115KV'	75	-0.16457	SPS	'CUNNINGHAM 230KV'	306	-0.07305	-0.09152	20
SPS	'CARLSBAD 69KV'	18	-0.07656	SPS	'PLANTX 230KV'	189	0.00434	-0.0809	22
SPS	'CARLSBAD 69KV'	18	-0.07656	SPS	'TOLK 230KV'	1023	0.00364	-0.0802	22
SPS	'CARLSBAD 69KV'	18	-0.07656	SPS	'BLACKHAWK 115KV'	220	0.00123	-0.07779	23
SPS	'CARLSBAD 69KV'	18	-0.07656	SPS	'CZ 69KV'	35	0.00112	-0.07768	23
SPS	'CARLSBAD 69KV'	18	-0.07656	SPS	'HARRINGTON 230KV'	706	0.00127	-0.07783	23
SPS	'CARLSBAD 69KV'	18	-0.07656	SPS	'NICHOLS 115KV'	84	0.0012	-0.07776	23
SPS	'CARLSBAD 69KV'	18	-0.07656	SPS	'PLANTX 115KV'	205	0.00215	-0.07871	23
SPS	'CARLSBAD 69KV'	18	-0.07656	SPS	'SIDRCH 69KV'	14	0.00123	-0.07779	23
SPS	'CARLSBAD 69KV'	18	-0.07656	SPS	'STEER WATER 115KV'	36	0.00116	-0.07772	23
SPS	'CARLSBAD 69KV'	18	-0.07656	SPS	'WILWIND 230KV'	72	0.00174	-0.0783	23
SPS	'CARLSBAD 69KV'	18	-0.07656	SPS	'CAPROCK 115KV'	36	-0.00271	-0.07385	24
SPS	'CARLSBAD 69KV'	18	-0.07656	SPS	'JONES 230KV'	486	-0.00227	-0.07429	24
SPS	'CARLSBAD 69KV'	18	-0.07656	SPS	'LP-BRND2 69KV'	80	-0.00262	-0.07394	24
SPS	'CARLSBAD 69KV'	18	-0.07656	SPS	'SAN JUAN 230KV'	54	-0.01891	-0.05765	31

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: Mustang-San Andr-Amerada Hess 115KV  
 Limiting Facility: DENVER CITY INTERCHANGE N - MUSTANG STATION 115KV CKT 1  
 Direction: To->From  
 Line Outage: DENVER CITY INTERCHANGE S - MUSTANG STATION 115KV CKT 1  
 Flowgate: 51960519661519625196812407SH  
 Date Redispatch Needed: 6/1 - 10/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Summer Shoulder

Reservation	Relief Amount	Aggregate Relief Amount
1090487	14.6	16
1090695	1.6	16

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
SPS	'CUNNINGHAM 115KV'	110	-0.1616	SPS	'MUSTANG 115KV'	300	0.42989	-0.59149	27
SPS	'CUNNINGHAM 115KV'	71	-0.1616	SPS	'MUSTANG 115KV'	300	0.42989	-0.59149	27
SPS	'MADOX 115KV'	75	-0.16457	SPS	'MUSTANG 115KV'	300	0.42989	-0.59446	27
SPS	'CARLSBAD 69KV'	18	-0.07657	SPS	'MUSTANG 115KV'	300	0.42989	-0.50646	32
SPS	'CUNNINGHAM 230KV'	110	-0.07306	SPS	'MUSTANG 115KV'	300	0.42989	-0.50295	32
SPS	'Lubbock Power and Light'	152	-0.00262	SPS	'MUSTANG 115KV'	300	0.42989	-0.43251	37
SPS	'TUCUMCARI 115KV'	15	-0.00272	SPS	'MUSTANG 115KV'	300	0.42989	-0.43261	37
SPS	'MOORE COUNTY 115KV'	48	0.00129	SPS	'MUSTANG 115KV'	300	0.42989	-0.4286	38
SPS	'NICHOLS 115KV'	131	0.0012	SPS	'MUSTANG 115KV'	300	0.42989	-0.42869	38
SPS	'NICHOLS 230KV'	244	0.00124	SPS	'MUSTANG 115KV'	300	0.42989	-0.42865	38
SPS	'PLANTX 115KV'	49	0.00215	SPS	'MUSTANG 115KV'	300	0.42989	-0.42774	38
SPS	'RIVERVIEW 69KV'	23	0.00122	SPS	'MUSTANG 115KV'	300	0.42989	-0.42867	38
SPS	'MADOX 115KV'	75	-0.16457	SPS	'MUSTG5 118.0 230KV'	210	0.15053	-0.3151	51
SPS	'CUNNINGHAM 115KV'	110	-0.1616	SPS	'MUSTG5 118.0 230KV'	210	0.15053	-0.31213	52
SPS	'CUNNINGHAM 115KV'	71	-0.1616	SPS	'MUSTG5 118.0 230KV'	210	0.15053	-0.31213	52
SPS	'MUSTG5 118.0 230KV'	150	0.15053	SPS	'MUSTANG 115KV'	300	0.42989	-0.27936	58
SPS	'CUNNINGHAM 230KV'	110	-0.07306	SPS	'MUSTG5 118.0 230KV'	210	0.15053	-0.22359	72
SPS	'MADOX 115KV'	75	-0.16457	SPS	'PLANTX 230KV'	189	0.00433	-0.1689	96
SPS	'MADOX 115KV'	75	-0.16457	SPS	'TOLK 230KV'	1027	0.00363	-0.1682	96
SPS	'MADOX 115KV'	75	-0.16457	SPS	'PLANTX 115KV'	204	0.00215	-0.16672	97
SPS	'CUNNINGHAM 115KV'	110	-0.1616	SPS	'PLANTX 230KV'	189	0.00433	-0.16593	98
SPS	'CUNNINGHAM 115KV'	71	-0.1616	SPS	'PLANTX 230KV'	189	0.00433	-0.16593	98
SPS	'CUNNINGHAM 115KV'	110	-0.1616	SPS	'TOLK 230KV'	1027	0.00363	-0.16523	98
SPS	'CUNNINGHAM 115KV'	71	-0.1616	SPS	'TOLK 230KV'	1027	0.00363	-0.16523	98
SPS	'MADOX 115KV'	75	-0.16457	SPS	'BLACKHAWK 115KV'	220	0.00122	-0.16579	98
SPS	'MADOX 115KV'	75	-0.16457	SPS	'CZ 69KV'	35	0.00112	-0.16569	98
SPS	'MADOX 115KV'	75	-0.16457	SPS	'HARRINGTON 230KV'	1066	0.00126	-0.16583	98
SPS	'MADOX 115KV'	75	-0.16457	SPS	'NICHOLS 115KV'	82	0.0012	-0.16577	98
SPS	'CUNNINGHAM 115KV'	110	-0.1616	SPS	'BLACKHAWK 115KV'	220	0.00122	-0.16282	99
SPS	'CUNNINGHAM 115KV'	71	-0.1616	SPS	'BLACKHAWK 115KV'	220	0.00122	-0.16282	99
SPS	'CUNNINGHAM 115KV'	110	-0.1616	SPS	'CZ 69KV'	35	0.00112	-0.16272	99
SPS	'CUNNINGHAM 115KV'	71	-0.1616	SPS	'CZ 69KV'	35	0.00112	-0.16272	99
SPS	'CUNNINGHAM 115KV'	110	-0.1616	SPS	'HARRINGTON 230KV'	1066	0.00126	-0.16286	99
SPS	'CUNNINGHAM 115KV'	71	-0.1616	SPS	'HARRINGTON 230KV'	1066	0.00126	-0.16286	99
SPS	'CUNNINGHAM 115KV'	110	-0.1616	SPS	'NICHOLS 115KV'	82	0.0012	-0.1628	99
SPS	'CUNNINGHAM 115KV'	71	-0.1616	SPS	'NICHOLS 115KV'	82	0.0012	-0.1628	99
SPS	'CUNNINGHAM 115KV'	110	-0.1616	SPS	'PLANTX 115KV'	204	0.00215	-0.16375	99
SPS	'CUNNINGHAM 115KV'	71	-0.1616	SPS	'PLANTX 115KV'	204	0.00215	-0.16375	99
SPS	'MADOX 115KV'	75	-0.16457	SPS	'JONES 230KV'	486	-0.00227	-0.1623	100
SPS	'MADOX 115KV'	75	-0.16457	SPS	'LP-BRND2 69KV'	80	-0.00262	-0.16195	100
SPS	'CUNNINGHAM 115KV'	110	-0.1616	SPS	'JONES 230KV'	486	-0.00227	-0.15933	102
SPS	'CUNNINGHAM 115KV'	71	-0.1616	SPS	'JONES 230KV'	486	-0.00227	-0.15933	102
SPS	'CUNNINGHAM 115KV'	110	-0.1616	SPS	'LP-BRND2 69KV'	80	-0.00262	-0.15898	102
SPS	'CUNNINGHAM 115KV'	71	-0.1616	SPS	'LP-BRND2 69KV'	80	-0.00262	-0.15898	102
SPS	'Lubbock Power and Light'	152	-0.00262	SPS	'MUSTG5 118.0 230KV'	210	0.15053	-0.15315	106

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

SPS	'MOORE COUNTY 115KV'	48	0.00129	SPS	'MUSTG5 118.0 230KV'	210	0.15053	-0.14924	108
SPS	'NICHOLS 115KV'	131	0.0012	SPS	'MUSTG5 118.0 230KV'	210	0.15053	-0.14933	108
SPS	'NICHOLS 230KV'	244	0.00124	SPS	'MUSTG5 118.0 230KV'	210	0.15053	-0.14929	108
SPS	'PLANTX 115KV'	49	0.00215	SPS	'MUSTG5 118.0 230KV'	210	0.15053	-0.14838	109
SPS	'MADOX 115KV'	75	-0.16457	SPS	'CUNNINGHAM 230KV'	196	-0.07306	-0.09151	177
SPS	'CUNNINGHAM 115KV'	110	-0.1616	SPS	'CUNNINGHAM 230KV'	196	-0.07306	-0.08854	183
SPS	'CUNNINGHAM 115KV'	71	-0.1616	SPS	'CUNNINGHAM 230KV'	196	-0.07306	-0.08854	183
SPS	'CUNNINGHAM 230KV'	110	-0.07306	SPS	'PLANTX 230KV'	189	0.00433	-0.07739	209
SPS	'CUNNINGHAM 230KV'	110	-0.07306	SPS	'TOLK 230KV'	1027	0.00363	-0.07669	211
SPS	'CUNNINGHAM 230KV'	110	-0.07306	SPS	'PLANTX 115KV'	204	0.00215	-0.07521	215
SPS	'CUNNINGHAM 230KV'	110	-0.07306	SPS	'BLACKHAWK 115KV'	220	0.00122	-0.07428	218
SPS	'CUNNINGHAM 230KV'	110	-0.07306	SPS	'HARRINGTON 230KV'	1066	0.00126	-0.07432	218
SPS	'CUNNINGHAM 230KV'	110	-0.07306	SPS	'NICHOLS 115KV'	82	0.0012	-0.07426	218
SPS	'CUNNINGHAM 230KV'	110	-0.07306	SPS	'JONES 230KV'	486	-0.00227	-0.07079	229
SPS	'CUNNINGHAM 230KV'	110	-0.07306	SPS	'LP-BRND2 69KV'	80	-0.00262	-0.07044	230

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: Mustang-San Andr-Amerada Hess 115KV  
 Limiting Facility: DENVER CITY INTERCHANGE S - MUSTANG STATION 115KV CKT 1  
 Direction: To->From  
 Line Outage: DENVER CITY INTERCHANGE N - MUSTANG STATION 115KV CKT 1  
 Flowgate: 51962519681519605196611107SP  
 Date Redispatch Needed: 6/1/07 - 10/1/07  
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount	Maximum Increment(MW)		Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
1090487	23.3	28	75	-0.16388	SPS	'MUSTANG 115KV'	300	0.4299	-0.59378	46
1090695	4.2	28	21	-0.16071	SPS	'MUSTANG 115KV'	300	0.4299	-0.59061	47
			18	-0.07641	SPS	'MUSTANG 115KV'	300	0.4299	-0.50631	54
			152	-0.00246	SPS	'Lubbock Power and Light'	300	0.4299	-0.43236	64
			66	0.00114	SPS	'NICHOLS 115KV'	300	0.4299	-0.42876	64
			97	0.00118	SPS	'MUSTANG 115KV'	300	0.4299	-0.42872	64
			48	0.00205	SPS	'MUSTANG 115KV'	300	0.4299	-0.42785	64
			23	0.00116	SPS	'MUSTANG 115KV'	300	0.4299	-0.42874	64
			75	-0.16388	SPS	'MUSTG5 118.0 230KV'	360	0.14749	-0.31137	88
			75	-0.16388	SPS	'PLANTX 230KV'	189	0.00415	-0.16803	164
			75	-0.16388	SPS	'TOLK 230KV'	1037	0.00342	-0.1673	165
			75	-0.16388	SPS	'PLANTX 115KV'	205	0.00205	-0.16593	166
			75	-0.16388	SPS	'WILWIND 230KV'	160	0.00164	-0.16552	166
			75	-0.16388	SPS	'BLACKHAWK 115KV'	220	0.00116	-0.16504	167
			75	-0.16388	SPS	'HARRINGTON 230KV'	1066	0.0012	-0.16508	167
			75	-0.16388	SPS	'NICHOLS 115KV'	147	0.00114	-0.16502	167
			75	-0.16388	SPS	'NICHOLS 230KV'	147	0.00118	-0.16506	167
			75	-0.16388	SPS	'STEER WATER 115KV'	80	0.0011	-0.16498	167
			75	-0.16388	SPS	'JONES 230KV'	486	-0.00213	-0.16175	170
			75	-0.16388	SPS	'CAPROCK 115KV'	80	-0.00289	-0.16099	171
			75	-0.16388	SPS	'LP-BRND2 69KV'	80	-0.00246	-0.16142	171
			152	-0.00246	SPS	'MUSTG5 118.0 230KV'	360	0.14749	-0.14995	184
			66	0.00114	SPS	'MUSTG5 118.0 230KV'	360	0.14749	-0.14635	188
			97	0.00118	SPS	'MUSTG5 118.0 230KV'	360	0.14749	-0.14631	188
			75	-0.16388	SPS	'SAN JUAN 230KV'	120	-0.01905	-0.14483	190

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: Mustang-San Andr-Amerada Hess 115KV  
 Limiting Facility: DENVER CITY INTERCHANGE S - MUSTANG STATION 115KV CKT 1  
 Direction: To->From  
 Line Outage: DENVER CITY INTERCHANGE N - MUSTANG STATION 115KV CKT 1  
 Flowgate: 51962519681519605196612407SH  
 Date Redispatch Needed: 6/1 - 10/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Summer Shoulder

Reservation	Relief Amount	Aggregate Relief Amount	Maximum Increment(MW)		Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
1090487	11.0	12	110	-0.16071	SPS	'MUSTANG 115KV'	300	0.4299	-0.59061	21
1090695	1.2	12	71	-0.16071	SPS	'MUSTANG 115KV'	300	0.4299	-0.59061	21
			75	-0.16388	SPS	'MUSTANG 115KV'	300	0.4299	-0.59378	21
			18	-0.07641	SPS	'MUSTANG 115KV'	300	0.4299	-0.50631	24
			110	-0.07309	SPS	'MUSTANG 115KV'	300	0.4299	-0.50299	24
			152	-0.00246	SPS	'MUSTANG 115KV'	300	0.4299	-0.43236	28
			48	0.00122	SPS	'MUSTANG 115KV'	300	0.4299	-0.42868	28
			131	0.00114	SPS	'MUSTANG 115KV'	300	0.4299	-0.42876	28
			244	0.00118	SPS	'MUSTANG 115KV'	300	0.4299	-0.42872	28
			23	0.00116	SPS	'MUSTANG 115KV'	300	0.4299	-0.42874	28
			15	-0.00289	SPS	'MUSTANG 115KV'	300	0.4299	-0.43279	28
			49	0.00205	SPS	'MUSTANG 115KV'	300	0.4299	-0.42785	29
			75	-0.16388	SPS	'MUSTG5 118.0 230KV'	210	0.14749	-0.31137	39
			110	-0.16071	SPS	'MUSTG5 118.0 230KV'	210	0.14749	-0.3082	40
			71	-0.16071	SPS	'MUSTG5 118.0 230KV'	210	0.14749	-0.3082	40
			150	0.14749	SPS	'MUSTANG 115KV'	300	0.4299	-0.28241	43

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

SPS	'CUNNINGHAM 230KV'	110	-0.07309	SPS	'MUSTG5 118.0 230KV'	210	0.14749	-0.22058	55
SPS	'MADOX 115KV'	75	-0.16388	SPS	'PLANTX 230KV'	189	0.00415	-0.16803	73
SPS	'MADOX 115KV'	75	-0.16388	SPS	'TOLK 230KV'	1027	0.00342	-0.1673	73
SPS	'CUNNINGHAM 115KV'	110	-0.16071	SPS	'PLANTX 230KV'	189	0.00415	-0.16486	74
SPS	'CUNNINGHAM 115KV'	71	-0.16071	SPS	'PLANTX 230KV'	189	0.00415	-0.16486	74
SPS	'CUNNINGHAM 115KV'	110	-0.16071	SPS	'TOLK 230KV'	1027	0.00342	-0.16413	74
SPS	'CUNNINGHAM 115KV'	71	-0.16071	SPS	'TOLK 230KV'	1027	0.00342	-0.16413	74
SPS	'MADOX 115KV'	75	-0.16388	SPS	'BLACKHAWK 115KV'	220	0.00116	-0.16504	74
SPS	'MADOX 115KV'	75	-0.16388	SPS	'CZ 69KV'	35	0.00106	-0.16494	74
SPS	'MADOX 115KV'	75	-0.16388	SPS	'HARRINGTON 230KV'	1066	0.0012	-0.16508	74
SPS	'MADOX 115KV'	75	-0.16388	SPS	'NICHOLS 115KV'	82	0.00114	-0.16502	74
SPS	'MADOX 115KV'	75	-0.16388	SPS	'PLANTX 115KV'	204	0.00205	-0.16593	74
SPS	'CUNNINGHAM 115KV'	110	-0.16071	SPS	'BLACKHAWK 115KV'	220	0.00116	-0.16187	75
SPS	'CUNNINGHAM 115KV'	71	-0.16071	SPS	'BLACKHAWK 115KV'	220	0.00116	-0.16187	75
SPS	'CUNNINGHAM 115KV'	110	-0.16071	SPS	'CZ 69KV'	35	0.00106	-0.16177	75
SPS	'CUNNINGHAM 115KV'	71	-0.16071	SPS	'CZ 69KV'	35	0.00106	-0.16177	75
SPS	'CUNNINGHAM 115KV'	110	-0.16071	SPS	'HARRINGTON 230KV'	1066	0.0012	-0.16191	75
SPS	'CUNNINGHAM 115KV'	71	-0.16071	SPS	'HARRINGTON 230KV'	1066	0.0012	-0.16191	75
SPS	'CUNNINGHAM 115KV'	110	-0.16071	SPS	'NICHOLS 115KV'	82	0.00114	-0.16185	75
SPS	'CUNNINGHAM 115KV'	71	-0.16071	SPS	'NICHOLS 115KV'	82	0.00114	-0.16185	75
SPS	'CUNNINGHAM 115KV'	110	-0.16071	SPS	'PLANTX 115KV'	204	0.00205	-0.16276	75
SPS	'CUNNINGHAM 115KV'	71	-0.16071	SPS	'PLANTX 115KV'	204	0.00205	-0.16276	75
SPS	'MADOX 115KV'	75	-0.16388	SPS	'JONES 230KV'	486	-0.00213	-0.16175	76
SPS	'MADOX 115KV'	75	-0.16388	SPS	'LP-BRND2 69KV'	80	-0.00246	-0.16142	76
SPS	'CUNNINGHAM 115KV'	110	-0.16071	SPS	'JONES 230KV'	486	-0.00213	-0.15858	77
SPS	'CUNNINGHAM 115KV'	71	-0.16071	SPS	'JONES 230KV'	486	-0.00213	-0.15858	77
SPS	'CUNNINGHAM 115KV'	110	-0.16071	SPS	'LP-BRND2 69KV'	80	-0.00246	-0.15825	77
SPS	'CUNNINGHAM 115KV'	71	-0.16071	SPS	'LP-BRND2 69KV'	80	-0.00246	-0.15825	77
SPS	'Lubbock Power and Light'	152	-0.00246	SPS	'MUSTG5 118.0 230KV'	210	0.14749	-0.14995	81
SPS	'MOORE COUNTY 115KV'	48	0.00122	SPS	'MUSTG5 118.0 230KV'	210	0.14749	-0.14627	83
SPS	'NICHOLS 115KV'	131	0.00114	SPS	'MUSTG5 118.0 230KV'	210	0.14749	-0.14635	83
SPS	'NICHOLS 230KV'	244	0.00118	SPS	'MUSTG5 118.0 230KV'	210	0.14749	-0.14631	83
SPS	'PLANTX 115KV'	49	0.00205	SPS	'MUSTG5 118.0 230KV'	210	0.14749	-0.14544	84
SPS	'MADOX 115KV'	75	-0.16388	SPS	'CUNNINGHAM 230KV'	196	-0.07309	-0.09079	135
SPS	'CUNNINGHAM 115KV'	110	-0.16071	SPS	'CUNNINGHAM 230KV'	196	-0.07309	-0.08762	139
SPS	'CUNNINGHAM 115KV'	71	-0.16071	SPS	'CUNNINGHAM 230KV'	196	-0.07309	-0.08762	139
SPS	'CUNNINGHAM 230KV'	110	-0.07309	SPS	'PLANTX 230KV'	189	0.00415	-0.07724	158
SPS	'CUNNINGHAM 230KV'	110	-0.07309	SPS	'TOLK 230KV'	1027	0.00342	-0.07651	160
SPS	'CUNNINGHAM 230KV'	110	-0.07309	SPS	'PLANTX 115KV'	204	0.00205	-0.07514	163
SPS	'CUNNINGHAM 230KV'	110	-0.07309	SPS	'BLACKHAWK 115KV'	220	0.00116	-0.07425	164
SPS	'CUNNINGHAM 230KV'	110	-0.07309	SPS	'HARRINGTON 230KV'	1066	0.0012	-0.07429	164
SPS	'CUNNINGHAM 230KV'	110	-0.07309	SPS	'NICHOLS 115KV'	82	0.00114	-0.07423	165
SPS	'CUNNINGHAM 230KV'	110	-0.07309	SPS	'JONES 230KV'	486	-0.00213	-0.07096	172
SPS	'CUNNINGHAM 230KV'	110	-0.07309	SPS	'LP-BRND2 69KV'	80	-0.00246	-0.07063	173

Maximum Decrement and Maximum Increment were determine 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: RICHLAND - ROSE HILL JUNCTION 69KV CKT 1  
 Limiting Facility: RICHLAND - ROSE HILL JUNCTION 69KV CKT 1  
 Direction: To->From  
 Line Outage: EL PASO - FARBER 138KV CKT 1  
 Flowgate: 57550578371570395704214406WP  
 Date Redispatch Needed: 12/1/06 - 4/1/07  
 Season Flowgate Identified: 2006 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount	Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
1090609	0.1	0	WERE	'ABILENE ENERGY CENTER 115KV'	66	0.00499	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05982	1
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	0.00462	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06019	1
			WERE	'BROWN COUNTY 115KV'	6	0.0062	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05861	1
			WERE	'CHANUTE 69KV'	52	0.00405	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06076	1
			WERE	'CITY OF BURLINGTON 69KV'	8	0.00898	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05583	1
			WERE	'CITY OF ERIE 69KV'	23	0.00405	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06076	1
			WERE	'CITY OF FREDONIA 69KV'	3	0.00454	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06027	1
			WERE	'CITY OF GIRARD 69KV'	9	0.00228	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06253	1
			WERE	'CITY OF IOLA 69KV'	24	0.00367	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06114	1
			WERE	'CITY OF MULVANE 69KV'	12	0.01379	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05102	1
			WERE	'CITY OF NEODESHA 69KV'	5	0.00353	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06128	1
			WERE	'CITY OF OSAGE CITY 115KV'	11	0.00554	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05927	1
			WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'CHANUTE 69KV'	35	0.00405	-0.10369	1
			WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.16445	1
			WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'CITY OF BURLINGTON 69KV'	5	0.00898	-0.10862	1
			WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'CITY OF ERIE 69KV'	4	0.00405	-0.10369	1
			WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'CITY OF FREDONIA 69KV'	8	0.00454	-0.10418	1
			WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'CITY OF GIRARD 69KV'	1	0.00228	-0.10192	1
			WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'CITY OF IOLA 69KV'	14	0.00367	-0.10331	1
			WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'CITY OF MULVANE 69KV'	4	0.01379	-0.11343	1
			WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00898	-0.10862	1
			WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'EVANS ENERGY CENTER 138KV'	174	0.01021	-0.10985	1
			WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'HUTCHINSON ENERGY CENTER 115KV'	40	0.00405	-0.10414	1
			WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00514	-0.10478	1
			WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00513	-0.10477	1
			WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00499	-0.10463	1
			WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.00507	-0.10471	1
			WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'TECUMSEH ENERGY CENTER 115KV'	68	0.00518	-0.10482	1
			WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'WACO 138KV'	18	0.01042	-0.11006	1
			WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CHANUTE 69KV'	35	0.00405	-0.29508	1
			WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.35584	1
			WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CITY OF BURLINGTON 69KV'	5	0.00898	-0.30001	1
			WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CITY OF ERIE 69KV'	4	0.00405	-0.29508	1



Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CITY OF FREDONIA 69KV'	8	0.00454	-0.29557	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CITY OF GIRARD 69KV'	1	0.00228	-0.29331	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CITY OF IOLA 69KV'	14	0.00367	-0.2947	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CITY OF MULVANE 69KV'	4	0.01379	-0.30482	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CITY OF WELLINGTON 69KV'	20	-0.09964	-0.19139	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00898	-0.30001	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'EVANS ENERGY CENTER 138KV'	174	0.01021	-0.30124	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'HUTCHINSON ENERGY CENTER 115KV'	40	0.0045	-0.29553	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00514	-0.29617	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00513	-0.29616	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00499	-0.29602	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.00507	-0.2961	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'TECUMSEH ENERGY CENTER 115KV'	68	0.00518	-0.29621	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'WACO 138KV'	18	0.01042	-0.30145	1
WERE	'CLAY CENTER JUNCTION 115KV'	29	0.00508	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05973	1
OKGE	'CONTINENTAL EMPIRE 138KV'	63	-0.03752	OKGE	'AES 161KV'	310	-0.00252	-0.035	1
OKGE	'CONTINENTAL EMPIRE 138KV'	63	-0.03752	OKGE	'MUSKOGEE 345KV'	1516	-0.00366	-0.03386	1
OKGE	'CONTINENTAL EMPIRE 138KV'	63	-0.03752	OKGE	'SEMINOLE 138KV'	198	-0.00696	-0.03056	1
OKGE	'CONTINENTAL EMPIRE 138KV'	63	-0.03752	OKGE	'SEMINOLE 345KV'	489	-0.00706	-0.03046	1
WERE	'EVANS ENERGY CENTER 138KV'	619	0.01021	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.0546	1
WERE	'GETTY 69KV'	35	0.02601	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.0388	1
WERE	'GILL ENERGY CENTER 138KV'	218	0.01044	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05437	1
WERE	'GILL ENERGY CENTER 69KV'	118	0.00662	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05819	1
WERE	'HOLTON 115KV'	33	0.00555	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05926	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	0.0045	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06031	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	0.0045	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06031	1
WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.00514	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05967	1
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.00513	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05968	1
WERE	'LATHAM1234.0 345KV'	150	0.00984	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05497	1
WERE	'LAWRENCE ENERGY CENTER 115KV'	78	0.00499	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05982	1
WERE	'LAWRENCE ENERGY CENTER 230KV'	35	0.00507	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05974	1
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.00308	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06173	1
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CHANUTE 69KV'	35	0.00405	-0.14163	1
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.20239	1
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CITY OF BURLINGTON 69KV'	5	0.00898	-0.14656	1
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CITY OF ERIE 69KV'	4	0.00405	-0.14163	1
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CITY OF FREDONIA 69KV'	8	0.00454	-0.14212	1
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CITY OF GIRARD 69KV'	1	0.00228	-0.13986	1
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CITY OF IOLA 69KV'	14	0.00367	-0.14125	1
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CITY OF MULVANE 69KV'	4	0.01379	-0.15137	1
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CITY OF WELLINGTON 69KV'	20	-0.09964	-0.03794	1
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00898	-0.14656	1
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'EVANS ENERGY CENTER 138KV'	174	0.01021	-0.14779	1
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'HUTCHINSON ENERGY CENTER 115KV'	40	0.0045	-0.14208	1
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00514	-0.14272	1
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00513	-0.14271	1
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00499	-0.14257	1
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.00507	-0.14265	1
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'TECUMSEH ENERGY CENTER 115KV'	68	0.00518	-0.14276	1
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'WACO 138KV'	18	0.01042	-0.148	1
WERE	'SMOKYHIL 230 230KV'	72	0.00464	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06017	1
WERE	'SOUTH SENECA 115KV'	20	0.00608	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05873	1
WERE	'ST JOHN 115KV'	8	0.00444	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06037	1
WERE	'TECUMSEH ENERGY CENTER 115KV'	123	0.00518	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05963	1
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	0.00517	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05964	1

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: RICHLAND - ROSE HILL JUNCTION 69KV CKT 1  
 Limiting Facility: RICHLAND - ROSE HILL JUNCTION 69KV CKT 1  
 Direction: To->From  
 Line Outage: EL PASO - FARBER 138KV CKT 1  
 Flowgate: 57550578371570395704214407G  
 Date Redispatch Needed: Starting 2007 4/1 - 6/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Spring Peak

Reservation	Relief Amount	Aggregate Relief Amount								
1090609	0.2	0	Maximum Increment (MW)		Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.16445	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'6TH STREET 115KV'	1	0.00498	-0.29601	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.00499	-0.29602	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	0.00462	-0.29565	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CHANUTE 69KV'	40	0.00405	-0.29508	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.35584	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CITY OF BURLINGTON 69KV'	5	0.00898	-0.30001	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CITY OF ERIE 69KV'	4	0.00405	-0.29508	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CITY OF FREDONIA 69KV'	10	0.00454	-0.29557	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CITY OF GIRARD 69KV'	3	0.00228	-0.29331	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CITY OF IOLA 69KV'	17	0.00367	-0.2947	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CITY OF MULVANE 69KV'	5	0.01379	-0.30482	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CITY OF WELLINGTON 69KV'	20	-0.09964	-0.19139	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00898	-0.30001	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'EVANS ENERGY CENTER 138KV'	340	0.01021	-0.30124	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'GILL ENERGY CENTER 138KV'	155	0.01044	-0.30147	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'HOLTON 115KV'	13	0.00556	-0.29659	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.0045	-0.29553	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00514	-0.29617	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00513	-0.29616	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00498	-0.29601	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.00507	-0.2961	1	

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'TECUMSEH ENERGY CENTER 115KV'	87	0.00518	-0.29621	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'WACO 138KV'	18	0.01042	-0.30145	1
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.20239	1
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'6TH STREET 115KV'	1	0.00498	-0.10462	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.00499	-0.10463	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	0.00462	-0.10426	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'CHANUTE 69KV'	40	0.00405	-0.10369	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'CITY OF BURLINGTON 69KV'	5	0.00898	-0.10862	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'CITY OF ERIE 69KV'	4	0.00405	-0.10369	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'CITY OF FREDONIA 69KV'	10	0.00454	-0.10418	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'CITY OF GIRARD 69KV'	3	0.00228	-0.10192	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'CITY OF IOLA 69KV'	17	0.00367	-0.10331	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'CITY OF MULVANE 69KV'	5	0.01379	-0.11343	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00898	-0.10862	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'EVANS ENERGY CENTER 138KV'	340	0.01021	-0.10985	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'GILL ENERGY CENTER 138KV'	155	0.01044	-0.11008	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'HOLTON 115KV'	13	0.00556	-0.10522	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.0045	-0.10414	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00514	-0.10478	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00513	-0.10477	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00498	-0.10462	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.00507	-0.10471	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'TECUMSEH ENERGY CENTER 115KV'	87	0.00518	-0.10482	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'WACO 138KV'	18	0.01042	-0.11006	2
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'6TH STREET 115KV'	1	0.00498	-0.14256	2
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.00499	-0.14257	2
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	0.00462	-0.14222	2
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CHANUTE 69KV'	40	0.00405	-0.14163	2
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CITY OF BURLINGTON 69KV'	5	0.00898	-0.14656	2
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CITY OF ERIE 69KV'	4	0.00405	-0.14163	2
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CITY OF FREDONIA 69KV'	10	0.00454	-0.14212	2
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CITY OF GIRARD 69KV'	3	0.00228	-0.13986	2
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CITY OF IOLA 69KV'	17	0.00367	-0.14125	2
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CITY OF MULVANE 69KV'	5	0.01379	-0.15137	2
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00898	-0.14656	2
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'EVANS ENERGY CENTER 138KV'	340	0.01021	-0.14779	2
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'GILL ENERGY CENTER 138KV'	155	0.01044	-0.14802	2
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'HOLTON 115KV'	13	0.00556	-0.14314	2
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.0045	-0.14208	2
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00514	-0.14272	2
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00513	-0.14271	2
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00498	-0.14256	2
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.00507	-0.14265	2
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'TECUMSEH ENERGY CENTER 115KV'	87	0.00518	-0.14276	2
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'WACO 138KV'	18	0.01042	-0.148	2
WERE	'ABILENE ENERGY CENTER 115KV'	6	0.00499	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05982	4
WERE	'BPU - CITY OF MCPHERSON 115KV'	39	0.00462	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06019	4
WERE	'BROWN COUNTY 115KV'	6	0.00621	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.0586	4
WERE	'CHANUTE 69KV'	47	0.00405	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06076	4
WERE	'CITY OF BURLINGTON 69KV'	8	0.00898	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05583	4
WERE	'CITY OF ERIE 69KV'	23	0.00405	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06076	4
WERE	'CITY OF GIRARD 69KV'	8	0.00228	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06253	4
WERE	'CITY OF IOLA 69KV'	21	0.00367	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06114	4
WERE	'CITY OF MULVANE 69KV'	11	0.01379	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05102	4
WERE	'CITY OF NEODESHA 69KV'	5	0.00353	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06128	4
WERE	'CITY OF OSAGE CITY 115KV'	11	0.00554	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05927	4
WERE	'CLAY CENTER JUNCTION 115KV'	29	0.00509	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05972	4
WERE	'EVANS ENERGY CENTER 138KV'	313	0.01021	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.0546	4
WERE	'GILL ENERGY CENTER 138KV'	18	0.01044	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05437	4
WERE	'GILL ENERGY CENTER 69KV'	118	0.00662	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05819	4
WERE	'HOLTON 115KV'	19	0.00556	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05925	4
WERE	'HUTCHINSON ENERGY CENTER 115KV'	263	0.0045	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06031	4
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	0.0045	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06031	4
WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.00514	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05967	4
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.00513	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05968	4
WERE	'LATHAM1234.0 345KV'	150	0.00984	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05497	4
WERE	'LAWRENCE ENERGY CENTER 115KV'	78	0.00498	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05983	4
WERE	'LAWRENCE ENERGY CENTER 230KV'	35	0.00507	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05974	4
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.00309	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06172	4
WERE	'SMOKYHIL 230 230KV'	72	0.00465	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06016	4
WERE	'SOUTH SENECA 115KV'	20	0.00609	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05872	4
WERE	'ST JOHN 115KV'	8	0.00441	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06024	4
WERE	'TECUMSEH ENERGY CENTER 115KV'	104	0.00518	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05963	4
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	0.00517	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05964	4
WERE	'GETTY 69KV'	35	0.02601	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.0388	6
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CITY OF WELLINGTON 69KV'	20	-0.09964	-0.03794	6

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: RICHLAND - ROSE HILL JUNCTION 69KV CKT 1  
 Limiting Facility: RICHLAND - ROSE HILL JUNCTION 69KV CKT 1  
 Direction: To->From  
 Line Outage: SPP-WERE-40  
 Flowgate: 57550578371SPP-WERE-404407G  
 Date Redispatch Needed: Starting 2007 4/1 - 6/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Spring Peak

Reservation	Relief Amount	Aggregate Relief Amount							
	1090609	0.1	0						
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'6TH STREET 115KV'	1	0.00465	-0.11718	1

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.00465	-0.11718	1
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	0.00429	-0.11682	1
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'CHANUTE 69KV'	40	0.00385	-0.11638	1
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.17524	1
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'CITY OF BURLINGTON 69KV'	5	0.00842	-0.12095	1
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'CITY OF ERIE 69KV'	4	0.00385	-0.11638	1
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'CITY OF FREDONIA 69KV'	10	0.00433	-0.11686	1
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'CITY OF GIRARD 69KV'	3	0.00215	-0.11468	1
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'CITY OF IOLA 69KV'	17	0.00348	-0.11601	1
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'CITY OF MULVANE 69KV'	5	0.0126	-0.12513	1
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00842	-0.12095	1
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'EVANS ENERGY CENTER 138KV'	340	0.00936	-0.12189	1
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'GILL ENERGY CENTER 138KV'	155	0.0092	-0.12173	1
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'HOLTON 115KV'	13	0.00521	-0.11774	1
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.00416	-0.11689	1
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0048	-0.11733	1
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00478	-0.11731	1
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00465	-0.11718	1
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.00473	-0.11726	1
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'TECUMSEH ENERGY CENTER 115KV'	87	0.00483	-0.11736	1
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'WACO 138KV'	18	0.00922	-0.12175	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'6TH STREET 115KV'	1	0.00465	-0.31322	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.00465	-0.31322	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	0.00429	-0.31286	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'CHANUTE 69KV'	40	0.00385	-0.31242	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.37128	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'CITY OF BURLINGTON 69KV'	5	0.00842	-0.31699	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'CITY OF ERIE 69KV'	4	0.00385	-0.31242	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'CITY OF FREDONIA 69KV'	10	0.00433	-0.3129	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'CITY OF GIRARD 69KV'	3	0.00215	-0.31072	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'CITY OF IOLA 69KV'	17	0.00348	-0.31205	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'CITY OF MULVANE 69KV'	5	0.0126	-0.32117	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'CITY OF WELLINGTON 69KV'	20	-0.11253	-0.19604	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00842	-0.31699	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'EVANS ENERGY CENTER 138KV'	340	0.00936	-0.31793	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'GILL ENERGY CENTER 138KV'	155	0.0092	-0.31777	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'HOLTON 115KV'	13	0.00521	-0.31378	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.00416	-0.31273	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0048	-0.31337	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00478	-0.31335	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00465	-0.31322	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.00473	-0.3133	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'TECUMSEH ENERGY CENTER 115KV'	87	0.00483	-0.3134	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'WACO 138KV'	18	0.00922	-0.31779	1
WERE	'ABILENE ENERGY CENTER 115KV'	6	0.00465	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05806	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	39	0.00429	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05842	2
WERE	'BROWN COUNTY 115KV'	6	0.00585	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05886	2
WERE	'CHANUTE 69KV'	47	0.00385	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05886	2
WERE	'CITY OF BURLINGTON 69KV'	8	0.00842	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05429	2
WERE	'CITY OF ERIE 69KV'	23	0.00385	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05886	2
WERE	'CITY OF GIRARD 69KV'	8	0.00215	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.06056	2
WERE	'CITY OF IOLA 69KV'	21	0.00348	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05923	2
WERE	'CITY OF NEODESHA 69KV'	5	0.00337	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05934	2
WERE	'CITY OF OSAGE CITY 115KV'	11	0.00516	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05755	2
WERE	'CLAY CENTER JUNCTION 115KV'	29	0.00474	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05797	2
WERE	'EVANS ENERGY CENTER 138KV'	313	0.00936	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05335	2
WERE	'GILL ENERGY CENTER 138KV'	18	0.0092	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05351	2
WERE	'GILL ENERGY CENTER 69KV'	118	0.00496	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05775	2
WERE	'HOLTON 115KV'	19	0.00521	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.0575	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	263	0.00416	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05855	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	0.00416	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05855	2
WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.0048	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05791	2
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.00478	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05793	2
WERE	'LATHAM1234.0 345KV'	150	0.00924	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05347	2
WERE	'LAWRENCE ENERGY CENTER 115KV'	78	0.00465	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05806	2
WERE	'LAWRENCE ENERGY CENTER 230KV'	35	0.00473	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05798	2
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.00292	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05979	2
WERE	'SMOKYHIL 230 230KV'	72	0.00432	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05839	2
WERE	'SOUTH SENECA 115KV'	20	0.00573	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05698	2
WERE	'ST JOHN 115KV'	8	0.00402	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05869	2
WERE	'TECUMSEH ENERGY CENTER 115KV'	104	0.00483	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05788	2
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	0.00483	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05788	2
WERE	'CITY OF MULVANE 69KV'	11	0.0126	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05011	3
WERE	'GETTY 69KV'	35	0.02488	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.03783	3
WERE	'OXFORD 138KV'	3	0.01557	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.04714	3

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: ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER  
 Limiting Facility: ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 1  
 Direction: From->To  
 Line Outage: ROSE HILL (ROSEHL3X) 345/138/13.8KV TRANSFORMER CKT 1  
 Flowgate: ROSEHL1X2741ROSESEHL3X7412207SP  
 Date Redispatch Needed: 6/1/07 - 10/1/07  
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount
1086655	3.2	4
1086656	1.1	4
1090674	0.1	4

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
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Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'CITY OF MULVANE 69KV'	8	-0.28414	WERE	'CITY OF BURLINGTON 69KV'	9	0.04512	-0.32926	13
WERE	'CITY OF MULVANE 69KV'	8	-0.28414	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.04512	-0.32926	13
WERE	'CITY OF MULVANE 69KV'	8	-0.28414	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00745	-0.27669	15
WERE	'CITY OF MULVANE 69KV'	8	-0.28414	WERE	'CITY OF IOLA 69KV'	24	-0.00507	-0.27907	15
WERE	'CITY OF MULVANE 69KV'	8	-0.28414	WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.00633	-0.27781	15
WERE	'CITY OF MULVANE 69KV'	8	-0.28414	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00307	-0.28107	15
WERE	'CITY OF MULVANE 69KV'	8	-0.28414	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00293	-0.28121	15
WERE	'CITY OF MULVANE 69KV'	8	-0.28414	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	0.00124	-0.28538	15
WERE	'CITY OF MULVANE 69KV'	8	-0.28414	WERE	'LAWRENCE ENERGY CENTER 230KV'	238	0.00053	-0.28467	15
WERE	'CITY OF MULVANE 69KV'	8	-0.28414	WERE	'TECUMSEH ENERGY CENTER 115KV'	128	-0.00156	-0.28258	15
WERE	'CITY OF MULVANE 69KV'	8	-0.28414	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	-0.01231	-0.27183	16
WERE	'CITY OF MULVANE 69KV'	8	-0.28414	WERE	'CHANUTE 69KV'	57	-0.01126	-0.27288	16
WERE	'CITY OF MULVANE 69KV'	8	-0.28414	WERE	'CITY OF ERIE 69KV'	24	-0.01126	-0.27288	16
WERE	'CITY OF MULVANE 69KV'	8	-0.28414	WERE	'CITY OF FREDONIA 69KV'	10	-0.01905	-0.26509	16
WERE	'CITY OF MULVANE 69KV'	8	-0.28414	WERE	'HOLTON 115KV'	16	-0.0102	-0.27394	16
WERE	'CITY OF MULVANE 69KV'	8	-0.28414	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	-0.01511	-0.26903	16
WERE	'CITY OF MULVANE 69KV'	8	-0.28414	WERE	'SOUTH SENECA 115KV'	15	-0.02065	-0.26349	16
WERE	'CITY OF WINFIELD 69KV'	40	-0.2149	WERE	'CITY OF BURLINGTON 69KV'	9	0.04512	-0.26002	16
WERE	'CITY OF WINFIELD 69KV'	40	-0.2149	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.04512	-0.26002	16
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20906	WERE	'CITY OF BURLINGTON 69KV'	9	0.04512	-0.25418	17
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20906	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.04512	-0.25418	17
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21161	WERE	'CITY OF BURLINGTON 69KV'	9	0.04512	-0.25673	17
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21161	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.04512	-0.25673	17
WERE	'GETTY 69KV'	35	-0.18997	WERE	'CITY OF BURLINGTON 69KV'	9	0.04512	-0.23509	18
WERE	'GETTY 69KV'	35	-0.18997	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.04512	-0.23509	18
WERE	'CITY OF WINFIELD 69KV'	40	-0.2149	WERE	'CITY OF IOLA 69KV'	24	-0.00507	-0.20983	20
WERE	'CITY OF WINFIELD 69KV'	40	-0.2149	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00307	-0.21183	20
WERE	'CITY OF WINFIELD 69KV'	40	-0.2149	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00293	-0.21197	20
WERE	'CITY OF WINFIELD 69KV'	40	-0.2149	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	0.00124	-0.21614	20
WERE	'CITY OF WINFIELD 69KV'	40	-0.2149	WERE	'LAWRENCE ENERGY CENTER 230KV'	238	0.00053	-0.21543	20
WERE	'CITY OF WINFIELD 69KV'	40	-0.2149	WERE	'TECUMSEH ENERGY CENTER 115KV'	128	-0.00156	-0.21334	20
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20906	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	0.00124	-0.2103	20
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20906	WERE	'LAWRENCE ENERGY CENTER 230KV'	238	0.00053	-0.20959	20
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21161	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	0.00124	-0.21285	20
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21161	WERE	'LAWRENCE ENERGY CENTER 230KV'	238	0.00053	-0.21214	20
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21161	WERE	'TECUMSEH ENERGY CENTER 115KV'	128	-0.00156	-0.21005	20
WERE	'CITY OF WINFIELD 69KV'	40	-0.2149	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00745	-0.20745	21
WERE	'CITY OF WINFIELD 69KV'	40	-0.2149	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	-0.01231	-0.20259	21
WERE	'CITY OF WINFIELD 69KV'	40	-0.2149	WERE	'CHANUTE 69KV'	57	-0.01126	-0.20364	21
WERE	'CITY OF WINFIELD 69KV'	40	-0.2149	WERE	'CITY OF ERIE 69KV'	24	-0.01126	-0.20364	21
WERE	'CITY OF WINFIELD 69KV'	40	-0.2149	WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.00633	-0.20857	21
WERE	'CITY OF WINFIELD 69KV'	40	-0.2149	WERE	'HOLTON 115KV'	16	-0.0102	-0.2047	21
WERE	'CITY OF WINFIELD 69KV'	40	-0.2149	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	-0.01511	-0.19979	21
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20906	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00745	-0.20161	21
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20906	WERE	'CITY OF IOLA 69KV'	24	-0.00507	-0.20399	21
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20906	WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.00633	-0.20273	21
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20906	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00307	-0.20599	21
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20906	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00293	-0.20613	21
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20906	WERE	'TECUMSEH ENERGY CENTER 115KV'	128	-0.00156	-0.2075	21
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21161	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00745	-0.20416	21
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21161	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	-0.01231	-0.1993	21
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21161	WERE	'CHANUTE 69KV'	57	-0.01126	-0.20035	21
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21161	WERE	'CITY OF ERIE 69KV'	24	-0.01126	-0.20035	21
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21161	WERE	'CITY OF IOLA 69KV'	24	-0.00507	-0.20654	21
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21161	WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.00633	-0.20528	21
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21161	WERE	'HOLTON 115KV'	16	-0.0102	-0.20141	21
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21161	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00307	-0.20854	21
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21161	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00293	-0.20868	21
WERE	'CITY OF WINFIELD 69KV'	40	-0.2149	WERE	'CITY OF FREDONIA 69KV'	10	-0.01905	-0.19585	22
WERE	'CITY OF WINFIELD 69KV'	40	-0.2149	WERE	'SOUTH SENECA 115KV'	15	-0.02065	-0.19425	22
WERE	'GETTY 69KV'	35	-0.18997	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	0.00124	-0.19121	22
WERE	'GETTY 69KV'	35	-0.18997	WERE	'LAWRENCE ENERGY CENTER 230KV'	238	0.00053	-0.1905	22
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20906	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	-0.01231	-0.19675	22
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20906	WERE	'CHANUTE 69KV'	57	-0.01126	-0.1978	22
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20906	WERE	'CITY OF ERIE 69KV'	24	-0.01126	-0.1978	22
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20906	WERE	'HOLTON 115KV'	16	-0.0102	-0.19886	22
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20906	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	-0.01511	-0.19395	22
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21161	WERE	'CITY OF FREDONIA 69KV'	10	-0.01905	-0.19256	22
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21161	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	-0.01511	-0.1965	22
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21161	WERE	'SOUTH SENECA 115KV'	15	-0.02065	-0.19096	22
WERE	'GETTY 69KV'	35	-0.18997	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00745	-0.18252	23
WERE	'GETTY 69KV'	35	-0.18997	WERE	'CITY OF IOLA 69KV'	24	-0.00507	-0.1849	23
WERE	'GETTY 69KV'	35	-0.18997	WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.00633	-0.18364	23
WERE	'GETTY 69KV'	35	-0.18997	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00307	-0.1869	23
WERE	'GETTY 69KV'	35	-0.18997	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00293	-0.18704	23
WERE	'GETTY 69KV'	35	-0.18997	WERE	'TECUMSEH ENERGY CENTER 115KV'	128	-0.00156	-0.18841	23
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20906	WERE	'CITY OF FREDONIA 69KV'	10	-0.01905	-0.19001	23
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20906	WERE	'SOUTH SENECA 115KV'	15	-0.02065	-0.18841	23
WERE	'GETTY 69KV'	35	-0.18997	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	-0.01231	-0.17766	24
WERE	'GETTY 69KV'	35	-0.18997	WERE	'CHANUTE 69KV'	57	-0.01126	-0.17871	24
WERE	'GETTY 69KV'	35	-0.18997	WERE	'CITY OF ERIE 69KV'	24	-0.01126	-0.17871	24
WERE	'GETTY 69KV'	35	-0.18997	WERE	'HOLTON 115KV'	16	-0.0102	-0.17977	24
WERE	'GETTY 69KV'	35	-0.18997	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	-0.01511	-0.17486	24
WERE	'GETTY 69KV'	35	-0.18997	WERE	'CITY OF FREDONIA 69KV'	10	-0.01905	-0.17092	25
WERE	'GETTY 69KV'	35	-0.18997	WERE	'SOUTH SENECA 115KV'	15	-0.02065	-0.16932	25
WERE	'EVANS ENERGY CENTER 138KV'	244	-0.09867	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.04512	-0.14379	30
WEPL	'HARPER 138KV'	17	-0.15489	WEPL	'CLIFTON 115KV'	44	-0.01309	-0.1418	30
WEPL	'HARPER 138KV'	17	-0.15489	WEPL	'A. M. MULLERGEN GENERATOR 115KV'	63	-0.02152	-0.13337	32
WEPL	'HARPER 138KV'	17	-0.15489	WEPL	'GRAY COUNTY WIND FARM 115KV'	73	-0.03373	-0.12116	35
WEPL	'HARPER 138KV'	17	-0.15489	WEPL	'JUDSON LARGE 115KV'	109	-0.03391	-0.12098	35
WERE	'CITY OF WINFIELD 69KV'	40	-0.2149	WERE	'EVANS ENERGY CENTER 138KV'	379	-0.09867	-0.11623	37
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21161	WERE	'EVANS ENERGY CENTER 138KV'	379	-0.09867	-0.11294	38
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20906	WERE	'EVANS ENERGY CENTER 138KV'	379	-0.09867	-0.11039	39
WERE	'EVANS ENERGY CENTER 138KV'	244	-0.09867	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	0.00124	-0.09991	43
WERE	'EVANS ENERGY CENTER 138KV'	244	-0.09867	WERE	'LAWRENCE ENERGY CENTER 230KV'	238	0.00053	-0.0992	43
WERE	'EVANS ENERGY CENTER 138KV'	244	-0.09867	WERE	'TECUMSEH ENERGY CENTER 115KV'	128	-0.00156	-0.09711	44

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'EVANS ENERGY CENTER 138KV'	244	-0.09867	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00307	-0.0956	45
WERE	'EVANS ENERGY CENTER 138KV'	244	-0.09867	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00293	-0.09574	45
WERE	'EVANS ENERGY CENTER 138KV'	244	-0.09867	WERE	'CITY OF IOLA 69KV'	24	-0.00507	-0.0936	46
WERE	'EVANS ENERGY CENTER 138KV'	244	-0.09867	WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.00633	-0.09234	46

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: ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER  
 Limiting Facility: ROSE HILL (ROSEHL3X) 345/138/13.8KV TRANSFORMER CKT 1  
 Direction: From->To  
 Line Outage: ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 1  
 Flowgate: ROSEHL3X2741ROSESEHL1X7412207SP  
 Date Redispatch Needed: 6/1/07 - 10/1/07  
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Maximum Increment(MW)	Aggregate Relief Amount
1086655	3.3	8	4
1086656	1.1	8	4
1090674	0.1	8	4

Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Redispatch Amount (MW)
WERE	'CITY OF MULVANE 69KV'	8	-0.28427	WERE	'CITY OF BURLINGTON 69KV'	9	0.04514	-0.32941	13
WERE	'CITY OF MULVANE 69KV'	8	-0.28427	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.04514	-0.32941	13
WERE	'CITY OF MULVANE 69KV'	8	-0.28427	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00745	-0.27682	16
WERE	'CITY OF MULVANE 69KV'	8	-0.28427	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	-0.01232	-0.27195	16
WERE	'CITY OF MULVANE 69KV'	8	-0.28427	WERE	'CHANUTE 69KV'	57	-0.01126	-0.27301	16
WERE	'CITY OF MULVANE 69KV'	8	-0.28427	WERE	'CITY OF ERIE 69KV'	24	-0.01126	-0.27301	16
WERE	'CITY OF MULVANE 69KV'	8	-0.28427	WERE	'CITY OF IOLA 69KV'	24	-0.00508	-0.27919	16
WERE	'CITY OF MULVANE 69KV'	8	-0.28427	WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.00634	-0.27793	16
WERE	'CITY OF MULVANE 69KV'	8	-0.28427	WERE	'HOLTON 115KV'	16	-0.0102	-0.27407	16
WERE	'CITY OF MULVANE 69KV'	8	-0.28427	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00308	-0.28119	16
WERE	'CITY OF MULVANE 69KV'	8	-0.28427	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00293	-0.28134	16
WERE	'CITY OF MULVANE 69KV'	8	-0.28427	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	0.00124	-0.28551	16
WERE	'CITY OF MULVANE 69KV'	8	-0.28427	WERE	'LAWRENCE ENERGY CENTER 230KV'	238	0.00053	-0.2848	16
WERE	'CITY OF MULVANE 69KV'	8	-0.28427	WERE	'TECUMSEH ENERGY CENTER 115KV'	128	-0.00156	-0.28271	16
WERE	'CITY OF MULVANE 69KV'	8	-0.28427	WERE	'CITY OF FREDONIA 69KV'	10	-0.01906	-0.26521	17
WERE	'CITY OF MULVANE 69KV'	8	-0.28427	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	-0.01512	-0.26915	17
WERE	'CITY OF MULVANE 69KV'	8	-0.28427	WERE	'SOUTH SENeca 115KV'	15	-0.02065	-0.26362	17
WERE	'CITY OF WINFIELD 69KV'	40	-0.215	WERE	'CITY OF BURLINGTON 69KV'	9	0.04514	-0.26014	17
WERE	'CITY OF WINFIELD 69KV'	40	-0.215	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.04514	-0.26014	17
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20915	WERE	'CITY OF BURLINGTON 69KV'	9	0.04514	-0.25429	17
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20915	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.04514	-0.25429	17
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21171	WERE	'CITY OF BURLINGTON 69KV'	9	0.04514	-0.25685	17
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21171	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.04514	-0.25685	17
WERE	'GETTY 69KV'	35	-0.19006	WERE	'CITY OF BURLINGTON 69KV'	9	0.04514	-0.2352	19
WERE	'GETTY 69KV'	35	-0.19006	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.04514	-0.2352	19
WERE	'CITY OF WINFIELD 69KV'	40	-0.215	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00745	-0.20755	21
WERE	'CITY OF WINFIELD 69KV'	40	-0.215	WERE	'CITY OF IOLA 69KV'	24	-0.00508	-0.20992	21
WERE	'CITY OF WINFIELD 69KV'	40	-0.215	WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.00634	-0.20866	21
WERE	'CITY OF WINFIELD 69KV'	40	-0.215	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00308	-0.21192	21
WERE	'CITY OF WINFIELD 69KV'	40	-0.215	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00293	-0.21207	21
WERE	'CITY OF WINFIELD 69KV'	40	-0.215	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	0.00124	-0.21624	21
WERE	'CITY OF WINFIELD 69KV'	40	-0.215	WERE	'LAWRENCE ENERGY CENTER 230KV'	238	0.00053	-0.21553	21
WERE	'CITY OF WINFIELD 69KV'	40	-0.215	WERE	'TECUMSEH ENERGY CENTER 115KV'	128	-0.00156	-0.21344	21
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20915	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	0.00124	-0.21039	21
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20915	WERE	'LAWRENCE ENERGY CENTER 230KV'	238	0.00053	-0.20968	21
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20915	WERE	'TECUMSEH ENERGY CENTER 115KV'	128	-0.00156	-0.20759	21
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21171	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00308	-0.20863	21
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21171	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00293	-0.20878	21
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21171	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	0.00124	-0.21295	21
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21171	WERE	'LAWRENCE ENERGY CENTER 230KV'	238	0.00053	-0.21224	21
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21171	WERE	'TECUMSEH ENERGY CENTER 115KV'	128	-0.00156	-0.21015	21
WERE	'CITY OF WINFIELD 69KV'	40	-0.215	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	-0.01232	-0.20268	22
WERE	'CITY OF WINFIELD 69KV'	40	-0.215	WERE	'CHANUTE 69KV'	57	-0.01126	-0.20374	22
WERE	'CITY OF WINFIELD 69KV'	40	-0.215	WERE	'CITY OF ERIE 69KV'	24	-0.01126	-0.20374	22
WERE	'CITY OF WINFIELD 69KV'	40	-0.215	WERE	'HOLTON 115KV'	16	-0.0102	-0.2048	22
WERE	'CITY OF WINFIELD 69KV'	40	-0.215	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	-0.01512	-0.19988	22
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20915	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00745	-0.2017	22
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20915	WERE	'CHANUTE 69KV'	57	-0.01126	-0.19789	22
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20915	WERE	'CITY OF ERIE 69KV'	24	-0.01126	-0.19789	22
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20915	WERE	'CITY OF IOLA 69KV'	24	-0.00508	-0.20407	22
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20915	WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.00634	-0.20281	22
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20915	WERE	'HOLTON 115KV'	16	-0.0102	-0.19895	22
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20915	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00308	-0.20607	22
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20915	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00293	-0.20622	22
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21171	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00745	-0.20426	22
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21171	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	-0.01232	-0.19939	22
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21171	WERE	'CHANUTE 69KV'	57	-0.01126	-0.20045	22
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21171	WERE	'CITY OF ERIE 69KV'	24	-0.01126	-0.20045	22
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21171	WERE	'CITY OF IOLA 69KV'	24	-0.00508	-0.20663	22
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21171	WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.00634	-0.20537	22
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21171	WERE	'HOLTON 115KV'	16	-0.0102	-0.20151	22
WERE	'CITY OF WINFIELD 69KV'	40	-0.215	WERE	'CITY OF FREDONIA 69KV'	10	-0.01906	-0.19594	23
WERE	'CITY OF WINFIELD 69KV'	40	-0.215	WERE	'SOUTH SENeca 115KV'	15	-0.02065	-0.19435	23
WERE	'GETTY 69KV'	35	-0.19006	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	0.00124	-0.1913	23
WERE	'GETTY 69KV'	35	-0.19006	WERE	'LAWRENCE ENERGY CENTER 230KV'	238	0.00053	-0.19059	23
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20915	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	-0.01232	-0.19683	23
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20915	WERE	'CITY OF FREDONIA 69KV'	10	-0.01906	-0.19009	23
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20915	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	-0.01512	-0.19403	23
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21171	WERE	'CITY OF FREDONIA 69KV'	10	-0.01906	-0.19265	23
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21171	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	-0.01512	-0.19659	23
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21171	WERE	'SOUTH SENeca 115KV'	15	-0.02065	-0.19106	23

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'GETTY 69KV'	35	-0.19006	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.00745	-0.18261	24
WERE	'GETTY 69KV'	35	-0.19006	WERE	'CITY OF IOLA 69KV'	24	-0.00508	-0.18498	24
WERE	'GETTY 69KV'	35	-0.19006	WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.00634	-0.18372	24
WERE	'GETTY 69KV'	35	-0.19006	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00308	-0.18698	24
WERE	'GETTY 69KV'	35	-0.19006	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00293	-0.18713	24
WERE	'GETTY 69KV'	35	-0.19006	WERE	'TECUMSEH ENERGY CENTER 115KV'	128	-0.00156	-0.1885	24
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20915	WERE	'SOUTH SENeca 115KV'	15	-0.02065	-0.1885	24
WERE	'GETTY 69KV'	35	-0.19006	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	-0.01232	-0.17774	25
WERE	'GETTY 69KV'	35	-0.19006	WERE	'CHANUTE 69KV'	57	-0.01126	-0.1788	25
WERE	'GETTY 69KV'	35	-0.19006	WERE	'CITY OF ERIE 69KV'	24	-0.01126	-0.1788	25
WERE	'GETTY 69KV'	35	-0.19006	WERE	'HOLTON 115KV'	16	-0.0102	-0.17986	25
WERE	'GETTY 69KV'	35	-0.19006	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	-0.01512	-0.17494	25
WERE	'GETTY 69KV'	35	-0.19006	WERE	'CITY OF FREDONIA 69KV'	10	-0.01906	-0.171	26
WERE	'GETTY 69KV'	35	-0.19006	WERE	'SOUTH SENeca 115KV'	15	-0.02065	-0.16941	26
WERE	'EVANS ENERGY CENTER 138KV'	244	-0.09872	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.04514	-0.14386	31
WEPL	'HARPER 138KV'	17	-0.15496	WEPL	'CLIFTON 115KV'	44	-0.0131	-0.14186	31
WEPL	'HARPER 138KV'	17	-0.15496	WEPL	'A. M. MULLERGEN GENERATOR 115KV'	63	-0.02153	-0.13343	33
WEPL	'HARPER 138KV'	17	-0.15496	WEPL	'GRAY COUNTY WIND FARM 115KV'	73	-0.03374	-0.12122	37
WEPL	'HARPER 138KV'	17	-0.15496	WEPL	'JUDSON LARGE 115KV'	109	-0.03392	-0.12104	37
WERE	'CITY OF WINFIELD 69KV'	40	-0.215	WERE	'EVANS ENERGY CENTER 138KV'	379	-0.09872	-0.11628	38
WERE	'GILL ENERGY CENTER 69KV'	118	-0.21171	WERE	'EVANS ENERGY CENTER 138KV'	379	-0.09872	-0.11299	39
WERE	'GILL ENERGY CENTER 138KV'	18	-0.20915	WERE	'EVANS ENERGY CENTER 138KV'	379	-0.09872	-0.11043	40
WERE	'EVANS ENERGY CENTER 138KV'	244	-0.09872	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	0.00124	-0.09996	44
WERE	'EVANS ENERGY CENTER 138KV'	244	-0.09872	WERE	'LAWRENCE ENERGY CENTER 230KV'	238	0.00053	-0.09925	45
WERE	'EVANS ENERGY CENTER 138KV'	244	-0.09872	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00308	-0.09564	46
WERE	'EVANS ENERGY CENTER 138KV'	244	-0.09872	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00293	-0.09579	46
WERE	'EVANS ENERGY CENTER 138KV'	244	-0.09872	WERE	'TECUMSEH ENERGY CENTER 115KV'	128	-0.00156	-0.09716	46
WERE	'EVANS ENERGY CENTER 138KV'	244	-0.09872	WERE	'CITY OF IOLA 69KV'	24	-0.00508	-0.09364	47
WERE	'EVANS ENERGY CENTER 138KV'	244	-0.09872	WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.00634	-0.09238	48

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: ROSE HILL JUNCTION - WEAVER 69KV CKT 1  
 Limiting Facility: ROSE HILL JUNCTION - WEAVER 69KV CKT 1  
 Direction: To->From  
 Line Outage: EL PASO - FARBER 138KV CKT 1  
 Flowgate: 57837576041570395704214406FA  
 Date Redispatch Needed: 10/1/06 - 12/1/06  
 Season Flowgate Identified: 2006 Fall Peak

Reservation	Relief Amount	Aggregate Relief Amount									
1090609	0.1	0									
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)		
WERE	'ABILENE ENERGY CENTER 115KV'	6	0.00506	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.05981	1		
WERE	'BPU - CITY OF MCPHERSON 115KV'	39	0.00469	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.06018	1		
WERE	'BROWN COUNTY 115KV'	6	0.00628	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.05859	1		
WERE	'CHANUTE 69KV'	48	0.00411	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.06076	1		
WERE	'CITY OF BURLINGTON 69KV'	8	0.00904	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.05583	1		
WERE	'CITY OF ERIE 69KV'	3	0.00411	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.06076	1		
WERE	'CITY OF FREDONIA 69KV'	10	0.0046	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.06027	1		
WERE	'CITY OF GIRARD 69KV'	6	0.00233	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.06254	1		
WERE	'CITY OF IOLA 69KV'	21	0.00372	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.06115	1		
WERE	'CITY OF MULVANE 69KV'	11	0.01385	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.05102	1		
WERE	'CITY OF NEODESHA 69KV'	5	0.00359	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.06128	1		
WERE	'CITY OF OSAGE CITY 115KV'	11	0.0056	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.05927	1		
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09958	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.00506	-0.10464	1		
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09958	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	0.00469	-0.10427	1		
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09958	WERE	'CHANUTE 69KV'	40	0.00411	-0.10369	1		
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09958	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.16445	1		
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09958	WERE	'CITY OF BURLINGTON 69KV'	5	0.00904	-0.10862	1		
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09958	WERE	'CITY OF ERIE 69KV'	24	0.00411	-0.10369	1		
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09958	WERE	'CITY OF GIRARD 69KV'	5	0.00233	-0.10191	1		
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09958	WERE	'CITY OF IOLA 69KV'	16	0.00372	-0.1033	1		
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09958	WERE	'CITY OF MULVANE 69KV'	5	0.01385	-0.11343	1		
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09958	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00904	-0.10862	1		
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09958	WERE	'EVANS ENERGY CENTER 138KV'	340	0.01027	-0.10985	1		
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09958	WERE	'GILL ENERGY CENTER 138KV'	155	0.0105	-0.11008	1		
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09958	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.00457	-0.10415	1		
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09958	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00521	-0.10479	1		
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09958	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00519	-0.10477	1		
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09958	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00505	-0.10463	1		
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09958	WERE	'LAWRENCE ENERGY CENTER 230KV'	231	0.00514	-0.10472	1		
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09958	WERE	'TECUMSEH ENERGY CENTER 115KV'	126	0.00524	-0.10482	1		
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09958	WERE	'WACO 138KV'	18	0.01048	-0.11006	1		
WERE	'CITY OF WINFIELD 69KV'	40	-0.29097	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.00506	-0.29603	1		
WERE	'CITY OF WINFIELD 69KV'	40	-0.29097	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	0.00469	-0.29566	1		
WERE	'CITY OF WINFIELD 69KV'	40	-0.29097	WERE	'CHANUTE 69KV'	40	0.00411	-0.29508	1		
WERE	'CITY OF WINFIELD 69KV'	40	-0.29097	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.35584	1		
WERE	'CITY OF WINFIELD 69KV'	40	-0.29097	WERE	'CITY OF BURLINGTON 69KV'	5	0.00904	-0.30001	1		
WERE	'CITY OF WINFIELD 69KV'	40	-0.29097	WERE	'CITY OF ERIE 69KV'	24	0.00411	-0.29508	1		
WERE	'CITY OF WINFIELD 69KV'	40	-0.29097	WERE	'CITY OF GIRARD 69KV'	5	0.00233	-0.2933	1		
WERE	'CITY OF WINFIELD 69KV'	40	-0.29097	WERE	'CITY OF IOLA 69KV'	16	0.00372	-0.29469	1		
WERE	'CITY OF WINFIELD 69KV'	40	-0.29097	WERE	'CITY OF MULVANE 69KV'	5	0.01385	-0.30482	1		
WERE	'CITY OF WINFIELD 69KV'	40	-0.29097	WERE	'CITY OF WELLINGTON 69KV'	20	-0.09958	-0.19139	1		
WERE	'CITY OF WINFIELD 69KV'	40	-0.29097	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00904	-0.30001	1		
WERE	'CITY OF WINFIELD 69KV'	40	-0.29097	WERE	'EVANS ENERGY CENTER 138KV'	340	0.01027	-0.30124	1		
WERE	'CITY OF WINFIELD 69KV'	40	-0.29097	WERE	'GILL ENERGY CENTER 138KV'	155	0.0105	-0.30147	1		
WERE	'CITY OF WINFIELD 69KV'	40	-0.29097	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.00457	-0.29554	1		
WERE	'CITY OF WINFIELD 69KV'	40	-0.29097	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00521	-0.29618	1		
WERE	'CITY OF WINFIELD 69KV'	40	-0.29097	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00519	-0.29616	1		
WERE	'CITY OF WINFIELD 69KV'	40	-0.29097	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00505	-0.29602	1		

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'CITY OF WINFIELD 69KV'	40	-0.29097	WERE	'LAWRENCE ENERGY CENTER 230KV'	231	0.00514	-0.29611	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.29097	WERE	'TECUMSEH ENERGY CENTER 115KV'	126	0.00524	-0.29621	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.29097	WERE	'WACO 138KV'	18	0.01048	-0.30145	1
WERE	'CLAY CENTER JUNCTION 115KV'	29	0.00515	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.05972	1
OKGE	'CONTINENTAL EMPIRE 138KV'	63	-0.03747	OKGE	'AES 161KV'	320	-0.00242	-0.03505	1
OKGE	'CONTINENTAL EMPIRE 138KV'	63	-0.03747	OKGE	'MUSKOGEE 345KV'	1516	-0.00358	-0.03389	1
WERE	'EVANS ENERGY CENTER 138KV'	283	0.01027	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.0546	1
WERE	'GETTY 69KV'	35	0.02607	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.0388	1
WERE	'GILL ENERGY CENTER 138KV'	18	0.0105	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.05437	1
WERE	'GILL ENERGY CENTER 69KV'	118	0.00668	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.05819	1
WERE	'HOLTON 115KV'	33	0.00562	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.05925	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	263	0.00457	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.0603	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	0.00457	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.0603	1
WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.00521	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.05966	1
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.00519	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.05968	1
WERE	'LATHAM1234.0 345KV'	150	0.0099	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.05497	1
WERE	'LAWRENCE ENERGY CENTER 115KV'	78	0.00505	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.05982	1
WERE	'LAWRENCE ENERGY CENTER 230KV'	38	0.00514	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.05973	1
WERE	'NEOSHO ENERGY CENTER 138KV'	47	0.00314	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.06173	1
WERE	'OXFORD 138KV'	3	-0.13752	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.00506	-0.14258	1
WERE	'OXFORD 138KV'	3	-0.13752	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	0.00469	-0.14221	1
WERE	'OXFORD 138KV'	3	-0.13752	WERE	'CHANUTE 69KV'	40	0.00411	-0.14163	1
WERE	'OXFORD 138KV'	3	-0.13752	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.20239	1
WERE	'OXFORD 138KV'	3	-0.13752	WERE	'CITY OF BURLINGTON 69KV'	5	0.00904	-0.14656	1
WERE	'OXFORD 138KV'	3	-0.13752	WERE	'CITY OF ERIE 69KV'	24	0.00411	-0.14163	1
WERE	'OXFORD 138KV'	3	-0.13752	WERE	'CITY OF GIRARD 69KV'	5	0.00233	-0.13985	1
WERE	'OXFORD 138KV'	3	-0.13752	WERE	'CITY OF IOLA 69KV'	16	0.00372	-0.14124	1
WERE	'OXFORD 138KV'	3	-0.13752	WERE	'CITY OF MULVANE 69KV'	5	0.01385	-0.15137	1
WERE	'OXFORD 138KV'	3	-0.13752	WERE	'CITY OF WELLINGTON 69KV'	20	-0.09958	-0.03794	1
WERE	'OXFORD 138KV'	3	-0.13752	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00904	-0.14656	1
WERE	'OXFORD 138KV'	3	-0.13752	WERE	'EVANS ENERGY CENTER 138KV'	340	0.01027	-0.14779	1
WERE	'OXFORD 138KV'	3	-0.13752	WERE	'GILL ENERGY CENTER 138KV'	155	0.0105	-0.14802	1
WERE	'OXFORD 138KV'	3	-0.13752	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.00457	-0.14209	1
WERE	'OXFORD 138KV'	3	-0.13752	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00521	-0.14273	1
WERE	'OXFORD 138KV'	3	-0.13752	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00519	-0.14271	1
WERE	'OXFORD 138KV'	3	-0.13752	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00505	-0.14257	1
WERE	'OXFORD 138KV'	3	-0.13752	WERE	'LAWRENCE ENERGY CENTER 230KV'	231	0.00514	-0.14266	1
WERE	'OXFORD 138KV'	3	-0.13752	WERE	'TECUMSEH ENERGY CENTER 115KV'	126	0.00524	-0.14276	1
WERE	'OXFORD 138KV'	3	-0.13752	WERE	'WACO 138KV'	18	0.01048	-0.148	1
WERE	'SMOKYHILL 230 230KV'	72	0.00471	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.06016	1
WERE	'SOUTH SENECA 115KV'	20	0.00616	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.05871	1
WERE	'ST JOHN 115KV'	8	0.00451	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.06036	1
WERE	'TECUMSEH ENERGY CENTER 115KV'	35	0.00524	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.05963	1
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	0.00524	WERE	'CITY OF AUGUSTA 69KV'	19	0.06487	-0.05963	1
OKGE	'CONTINENTAL EMPIRE 138KV'	63	-0.03747	OKGE	'SEMINOLE 138KV'	385	-0.00688	-0.03059	2
OKGE	'CONTINENTAL EMPIRE 138KV'	63	-0.03747	OKGE	'SEMINOLE 345KV'	489	-0.00698	-0.03049	2

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: ROSE HILL JUNCTION - WEAVER 69KV CKT 1  
 Limiting Facility: ROSE HILL JUNCTION - WEAVER 69KV CKT 1  
 Direction: To->From  
 Line Outage: EL PASO - FARBER 138KV CKT 1  
 Flowgate: 57837576041570395704214406WP  
 Date Redispatch Needed: 12/1/06 - 4/1/07  
 Season Flowgate Identified: 2006 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount	Maximum Increment (MW)		Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
1090609		0.3	0							
Source Control Area	Source		GSF							
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CHANUTE 69KV'	35	0.00405	-0.29508	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.35584	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CITY OF BURLINGTON 69KV'	5	0.00898	-0.30001	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CITY OF ERIE 69KV'	4	0.00405	-0.29508	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CITY OF FREDONIA 69KV'	8	0.00454	-0.29557	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CITY OF GIRARD 69KV'	1	0.00228	-0.29331	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CITY OF IOLA 69KV'	14	0.00367	-0.2947	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CITY OF MULVANE 69KV'	4	0.01379	-0.30482	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CITY OF WELLINGTON 69KV'	20	-0.09964	-0.19139	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00898	-0.30001	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'EVANS ENERGY CENTER 138KV'	174	0.01021	-0.30124	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'HUTCHINSON ENERGY CENTER 115KV'	40	0.0045	-0.29553	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00514	-0.29617	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00513	-0.29616	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00499	-0.29602	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.00507	-0.2961	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'TECUMSEH ENERGY CENTER 115KV'	68	0.00518	-0.29621	1	
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'WACO 138KV'	18	0.01042	-0.30145	1	
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.20239	1	
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.16445	2	
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'CITY OF BURLINGTON 69KV'	5	0.00898	-0.10862	2	
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'CITY OF MULVANE 69KV'	4	0.01379	-0.11343	2	
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00898	-0.10862	2	
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'EVANS ENERGY CENTER 138KV'	174	0.01021	-0.10985	2	
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'WACO 138KV'	18	0.01042	-0.11006	2	
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CHANUTE 69KV'	35	0.00405	-0.14163	2	
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CITY OF BURLINGTON 69KV'	5	0.00898	-0.14656	2	
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CITY OF ERIE 69KV'	4	0.00405	-0.14163	2	
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CITY OF FREDONIA 69KV'	8	0.00454	-0.14212	2	
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CITY OF GIRARD 69KV'	1	0.00228	-0.13986	2	
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CITY OF IOLA 69KV'	14	0.00367	-0.14125	2	

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CITY OF MULVANE 69KV'	4	0.01379	-0.15137	2
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00898	-0.14656	2
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'EVANS ENERGY CENTER 138KV'	174	0.01021	-0.14779	2
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'HUTCHINSON ENERGY CENTER 115KV'	40	0.00405	-0.14208	2
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00514	-0.14272	2
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00513	-0.14271	2
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00499	-0.14257	2
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.00507	-0.14265	2
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'TECUMSEH ENERGY CENTER 115KV'	68	0.00518	-0.14276	2
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'WACO 138KV'	18	0.01042	-0.148	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'CHANUTE 69KV'	35	0.00405	-0.10369	3
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'CITY OF ERIE 69KV'	4	0.00405	-0.10369	3
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'CITY OF FREDONIA 69KV'	8	0.00454	-0.10418	3
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'CITY OF GIRARD 69KV'	1	0.00228	-0.10192	3
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'CITY OF IOLA 69KV'	14	0.00367	-0.10331	3
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'HUTCHINSON ENERGY CENTER 115KV'	40	0.00405	-0.10414	3
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00514	-0.10478	3
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00513	-0.10477	3
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00499	-0.10463	3
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.00507	-0.10471	3
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'TECUMSEH ENERGY CENTER 115KV'	68	0.00518	-0.10482	3
WERE	'ABILENE ENERGY CENTER 115KV'	66	0.00499	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05982	4
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	0.00462	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06019	4
WERE	'BROWN COUNTY 115KV'	6	0.0062	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05861	4
WERE	'CHANUTE 69KV'	52	0.00405	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06076	4
WERE	'CITY OF ERIE 69KV'	23	0.00405	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06076	4
WERE	'CITY OF FREDONIA 69KV'	3	0.00454	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06027	4
WERE	'CITY OF GIRARD 69KV'	9	0.00228	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06253	4
WERE	'CITY OF IOLA 69KV'	24	0.00367	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06114	4
WERE	'CITY OF NEODESHA 69KV'	5	0.00353	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06128	4
WERE	'CITY OF OSAGE CITY 115KV'	11	0.00554	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05927	4
WERE	'CLAY CENTER JUNCTION 115KV'	29	0.00508	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05973	4
WERE	'HOLTON 115KV'	33	0.00555	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05926	4
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	0.0045	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06031	4
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	0.0045	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06031	4
WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.00514	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05967	4
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.00513	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05968	4
WERE	'LAWRENCE ENERGY CENTER 115KV'	78	0.00499	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05982	4
WERE	'LAWRENCE ENERGY CENTER 230KV'	35	0.00507	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05974	4
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.00308	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06173	4
WERE	'SMOKYHILL 230 230KV'	72	0.00464	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06017	4
WERE	'SOUTH SENECA 115KV'	20	0.00608	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05873	4
WERE	'ST JOHN 115KV'	8	0.00444	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06037	4
WERE	'TECUMSEH ENERGY CENTER 115KV'	123	0.00518	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05963	4
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	0.00517	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05964	4
WERE	'CITY OF BURLINGTON 69KV'	8	0.00898	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05583	5
WERE	'CITY OF MULVANE 69KV'	12	0.01379	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05102	5
WERE	'EVANS ENERGY CENTER 138KV'	619	0.01021	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.0546	5
WERE	'GILL ENERGY CENTER 138KV'	218	0.01044	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05437	5
WERE	'GILL ENERGY CENTER 69KV'	118	0.00662	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05819	5
WERE	'LATHAM1234.0 345KV'	150	0.00984	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05497	5
WERE	'GETTY 69KV'	35	0.02601	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.0388	7
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CITY OF WELLINGTON 69KV'	20	-0.09964	-0.03794	7
OKGE	'CONTINENTAL EMPIRE 138KV'	63	-0.03752	OKGE	'AES 161KV'	310	-0.00252	-0.035	8
OKGE	'CONTINENTAL EMPIRE 138KV'	63	-0.03752	OKGE	'MUSKOGEE 345KV'	1516	-0.00366	-0.03386	8
OKGE	'CONTINENTAL EMPIRE 138KV'	63	-0.03752	OKGE	'SEMINOLE 138KV'	198	-0.00696	-0.03056	9
OKGE	'CONTINENTAL EMPIRE 138KV'	63	-0.03752	OKGE	'SEMINOLE 345KV'	489	-0.00706	-0.03046	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: ROSE HILL JUNCTION - WEAVER 69KV CKT 1  
 Limiting Facility: ROSE HILL JUNCTION - WEAVER 69KV CKT 1  
 Direction: To->From  
 Line Outage: EL PASO - FARBER 138KV CKT 1  
 Flowgate: 57837576041570395704214407G  
 Date Redispatch Needed: Starting 2007 4/1 - 6/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Spring Peak

Reservation	Relief Amount	Aggregate Relief Amount							
1090609	0.5	1							
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'6TH STREET 115KV'	1	0.00498	-0.29601	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.00499	-0.29602	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	0.00462	-0.29565	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CHANUTE 69KV'	40	0.00405	-0.29508	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.35584	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CITY OF BURLINGTON 69KV'	5	0.00898	-0.30001	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CITY OF ERIE 69KV'	4	0.00405	-0.29508	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CITY OF FREDONIA 69KV'	10	0.00454	-0.29557	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CITY OF GIRARD 69KV'	3	0.00228	-0.29331	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CITY OF IOLA 69KV'	17	0.00367	-0.2947	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CITY OF MULVANE 69KV'	5	0.01379	-0.30482	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00898	-0.30001	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'EVANS ENERGY CENTER 138KV'	340	0.01021	-0.30124	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'GILL ENERGY CENTER 138KV'	155	0.01044	-0.30147	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'HOLTON 115KV'	13	0.00556	-0.29659	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.0045	-0.29553	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00514	-0.29617	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00513	-0.29616	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00498	-0.29601	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.00507	-0.2961	2



Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'TECUMSEH ENERGY CENTER 115KV'	87	0.00518	-0.29621	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'WACO 138KV'	18	0.01042	-0.30145	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.16445	3
WERE	'CITY OF WINFIELD 69KV'	40	-0.29103	WERE	'CITY OF WELLINGTON 69KV'	20	-0.09964	-0.19139	3
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.20239	3
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.00499	-0.14257	4
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	0.00462	-0.1422	4
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CHANUTE 69KV'	40	0.00405	-0.14163	4
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CITY OF BURLINGTON 69KV'	5	0.00898	-0.14656	4
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CITY OF ERIE 69KV'	4	0.00454	-0.14163	4
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CITY OF FREDONIA 69KV'	10	0.00454	-0.14212	4
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CITY OF GIRARD 69KV'	3	0.00228	-0.13986	4
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CITY OF IOLA 69KV'	17	0.00367	-0.14125	4
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'CITY OF MULVANE 69KV'	5	0.01379	-0.15137	4
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00898	-0.14656	4
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'EVANS ENERGY CENTER 138KV'	340	0.01021	-0.14779	4
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'GILL ENERGY CENTER 138KV'	155	0.01044	-0.14802	4
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'HOLTON 115KV'	13	0.00556	-0.14314	4
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.0045	-0.14208	4
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00514	-0.14272	4
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00513	-0.14271	4
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00498	-0.14256	4
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.00507	-0.14265	4
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'TECUMSEH ENERGY CENTER 115KV'	87	0.00518	-0.14276	4
WERE	'OXFORD 138KV'	3	-0.13758	WERE	'WACO 138KV'	18	0.01042	-0.148	4
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.00499	-0.10463	5
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	0.00462	-0.10426	5
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'CHANUTE 69KV'	40	0.00405	-0.10369	5
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'CITY OF BURLINGTON 69KV'	5	0.00898	-0.10862	5
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'CITY OF ERIE 69KV'	4	0.00405	-0.10369	5
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'CITY OF FREDONIA 69KV'	10	0.00454	-0.10418	5
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'CITY OF GIRARD 69KV'	3	0.00228	-0.10192	5
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'CITY OF IOLA 69KV'	17	0.00367	-0.10331	5
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'CITY OF MULVANE 69KV'	5	0.01379	-0.11343	5
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00898	-0.10862	5
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'EVANS ENERGY CENTER 138KV'	340	0.01021	-0.10985	5
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'GILL ENERGY CENTER 138KV'	155	0.01044	-0.11008	5
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'HOLTON 115KV'	13	0.00556	-0.1025	5
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.0045	-0.10414	5
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00514	-0.10478	5
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00513	-0.10477	5
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00498	-0.10462	5
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.00507	-0.10471	5
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'TECUMSEH ENERGY CENTER 115KV'	87	0.00518	-0.10482	5
WERE	'CITY OF WELLINGTON 69KV'	24	-0.09964	WERE	'WACO 138KV'	18	0.01042	-0.11006	5
WERE	'ABILENE ENERGY CENTER 115KV'	6	0.00499	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05982	9
WERE	'BPU - CITY OF MCPHERSON 115KV'	39	0.00462	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06019	9
WERE	'BROWN COUNTY 115KV'	6	0.00621	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.0586	9
WERE	'CHANUTE 69KV'	47	0.00405	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06076	9
WERE	'CITY OF ERIE 69KV'	23	0.00405	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06076	9
WERE	'CITY OF GIRARD 69KV'	8	0.00228	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06253	9
WERE	'CITY OF IOLA 69KV'	21	0.00367	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06114	9
WERE	'CITY OF NEODESHA 69KV'	5	0.00353	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06128	9
WERE	'CITY OF OSAGE CITY 115KV'	11	0.00554	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05927	9
WERE	'CLAY CENTER JUNCTION 115KV'	29	0.00509	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05972	9
WERE	'GILL ENERGY CENTER 69KV'	118	0.00662	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05819	9
WERE	'HOLTON 115KV'	19	0.00556	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05925	9
WERE	'HUTCHINSON ENERGY CENTER 115KV'	263	0.0045	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06031	9
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	0.0045	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06031	9
WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.00514	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05967	9
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.00513	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05968	9
WERE	'LAWRENCE ENERGY CENTER 115KV'	78	0.00498	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05983	9
WERE	'LAWRENCE ENERGY CENTER 230KV'	35	0.00507	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05974	9
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.00309	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06172	9
WERE	'SMOKYHIL 230 230KV'	72	0.00465	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.06016	9
WERE	'SOUTH SENECA 115KV'	20	0.00609	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05872	9
WERE	'ST JOHN 115KV'	8	0.00441	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.0604	9
WERE	'TECUMSEH ENERGY CENTER 115KV'	104	0.00518	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05963	9
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	0.00517	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05964	9
WERE	'CITY OF BURLINGTON 69KV'	8	0.00898	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05583	10
WERE	'CITY OF MULVANE 69KV'	11	0.01379	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05102	10
WERE	'EVANS ENERGY CENTER 138KV'	313	0.01021	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.0546	10
WERE	'GILL ENERGY CENTER 138KV'	18	0.01044	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05437	10
WERE	'LATHAM1234.0 345KV'	150	0.00984	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.05497	10
WERE	'GETTY 69KV'	35	0.02601	WERE	'CITY OF AUGUSTA 69KV'	20	0.06481	-0.0388	14

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: ROSE HILL JUNCTION - WEAVER 69KV CKT 1  
 Limiting Facility: ROSE HILL JUNCTION - WEAVER 69KV CKT 1  
 Direction: To->From  
 Line Outage: SPP-WERE-40  
 Flowgate: 57837576041SPP-WERE-404406WP  
 Date Redispatch Needed: 12/1/06 - 4/1/07  
 Season Flowgate Identified: 2006 Winter Peak

Reservation	Relief Amount	0.2	Aggregate Relief Amount	0					
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.17524	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'CHANUTE 69KV'	35	0.00385	-0.31242	1

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.37128	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'CITY OF BURLINGTON 69KV'	5	0.00842	-0.31699	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'CITY OF ERIE 69KV'	4	0.00385	-0.31242	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'CITY OF FREDONIA 69KV'	8	0.00433	-0.3129	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'CITY OF GIRARD 69KV'	1	0.00215	-0.31072	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'CITY OF IOLA 69KV'	14	0.00348	-0.31205	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'CITY OF MULVANE 69KV'	4	0.0126	-0.32117	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'CITY OF WELLINGTON 69KV'	20	-0.11253	-0.19604	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00842	-0.31699	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'EVANS ENERGY CENTER 138KV'	174	0.00936	-0.31793	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'HUTCHINSON ENERGY CENTER 115KV'	40	0.00417	-0.31274	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0048	-0.31337	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00478	-0.31335	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00466	-0.31323	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.00473	-0.3133	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'TECUMSEH ENERGY CENTER 115KV'	68	0.00483	-0.3134	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'WACO 138KV'	18	0.00922	-0.31779	1
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'CHANUTE 69KV'	35	0.00385	-0.11638	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'CITY OF BURLINGTON 69KV'	5	0.00842	-0.12095	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'CITY OF ERIE 69KV'	4	0.00385	-0.11638	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'CITY OF FREDONIA 69KV'	8	0.00433	-0.11686	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'CITY OF GIRARD 69KV'	1	0.00215	-0.11468	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'CITY OF IOLA 69KV'	14	0.00348	-0.11601	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'CITY OF MULVANE 69KV'	4	0.0126	-0.12513	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00842	-0.12095	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'EVANS ENERGY CENTER 138KV'	174	0.00936	-0.12189	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'HUTCHINSON ENERGY CENTER 115KV'	40	0.00417	-0.1167	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0048	-0.11733	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00478	-0.11731	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00466	-0.11719	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.00473	-0.11726	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'TECUMSEH ENERGY CENTER 115KV'	68	0.00483	-0.11736	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'WACO 138KV'	18	0.00922	-0.12175	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	0.00464	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05807	4
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	0.00429	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05842	4
WERE	'BROWN COUNTY 115KV'	6	0.00584	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05887	4
WERE	'CHANUTE 69KV'	52	0.00385	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05886	4
WERE	'CITY OF BURLINGTON 69KV'	8	0.00842	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05429	4
WERE	'CITY OF ERIE 69KV'	23	0.00385	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05886	4
WERE	'CITY OF FREDONIA 69KV'	3	0.00433	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05838	4
WERE	'CITY OF GIRARD 69KV'	9	0.00215	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.06056	4
WERE	'CITY OF IOLA 69KV'	24	0.00348	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05923	4
WERE	'CITY OF MULVANE 69KV'	12	0.0126	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05011	4
WERE	'CITY OF NEODESHA 69KV'	5	0.00337	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05934	4
WERE	'CITY OF OSAGE CITY 115KV'	11	0.00516	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05755	4
WERE	'CLAY CENTER JUNCTION 115KV'	29	0.00474	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05797	4
WERE	'EVANS ENERGY CENTER 138KV'	619	0.00936	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05335	4
WERE	'GILL ENERGY CENTER 138KV'	218	0.0092	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05351	4
WERE	'GILL ENERGY CENTER 69KV'	118	0.00495	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05776	4
WERE	'HOLTON 115KV'	33	0.0052	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05751	4
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	0.00417	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05854	4
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	0.00417	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05854	4
WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.0048	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05791	4
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.00478	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05793	4
WERE	'LATHAM1234.0 345KV'	150	0.00924	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05347	4
WERE	'LAWRENCE ENERGY CENTER 115KV'	78	0.00466	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05805	4
WERE	'LAWRENCE ENERGY CENTER 230KV'	35	0.00473	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05798	4
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.00292	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05979	4
WERE	'SMOKYHIL 230 230KV'	72	0.00431	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.0584	4
WERE	'SOUTH SENECA 115KV'	20	0.00572	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05699	4
WERE	'ST JOHN 115KV'	8	0.00405	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05866	4
WERE	'TECUMSEH ENERGY CENTER 115KV'	123	0.00483	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05788	4
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	0.00483	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05788	4
WERE	'OXFORD 138KV'	3	0.01557	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.04714	5
OKGE	'CONTINENTAL EMPIRE 138KV'	63	-0.03513	OKGE	'AES 161KV'	310	-0.00236	-0.03277	6
WERE	'GETTY 69KV'	35	0.02488	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.03783	6
OKGE	'CONTINENTAL EMPIRE 138KV'	63	-0.03513	OKGE	'MUSKOGEE 345KV'	1516	-0.00343	-0.0317	7

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: ROSE HILL JUNCTION - WEAVER 69KV CKT 1  
 Limiting Facility: ROSE HILL JUNCTION - WEAVER 69KV CKT 1  
 Direction: To->From  
 Line Outage: SPP-WERE-40  
 Flowgate: 57837576041SPP-WERE-404407G  
 Date Redispatch Needed: Starting 2007 4/1 - 6/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Spring Peak

Reservation	Relief Amount	Aggregate Relief Amount							
1090609	0.5	0							
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.37128	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'CITY OF BURLINGTON 69KV'	5	0.00842	-0.31699	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'CITY OF MULVANE 69KV'	5	0.0126	-0.32117	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00842	-0.31699	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'EVANS ENERGY CENTER 138KV'	340	0.00936	-0.31793	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'GILL ENERGY CENTER 138KV'	155	0.0092	-0.31777	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'WACO 138KV'	18	0.00922	-0.31779	1
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'6TH STREET 115KV'	1	0.00465	-0.31322	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.00465	-0.31322	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	0.00429	-0.31286	2

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'CHANUTE 69KV'	40	0.00385	-0.31242	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'CITY OF ERIE 69KV'	4	0.00385	-0.31242	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'CITY OF FREDONIA 69KV'	10	0.00433	-0.3129	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'CITY OF GIRARD 69KV'	3	0.00215	-0.31072	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'CITY OF IOLA 69KV'	17	0.00348	-0.31205	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'CITY OF WELLINGTON 69KV'	20	-0.11253	-0.19604	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'HOLTON 115KV'	13	0.00521	-0.31378	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.00416	-0.31273	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0048	-0.31337	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00478	-0.31335	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00465	-0.31322	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.00473	-0.3133	2
WERE	'CITY OF WINFIELD 69KV'	40	-0.30857	WERE	'TECUMSEH ENERGY CENTER 115KV'	87	0.00483	-0.3134	2
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.17524	3
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.00465	-0.11718	4
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	0.00429	-0.11682	4
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'CHANUTE 69KV'	40	0.00385	-0.11638	4
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'CITY OF BURLINGTON 69KV'	5	0.00842	-0.12095	4
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'CITY OF ERIE 69KV'	4	0.00385	-0.11638	4
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'CITY OF FREDONIA 69KV'	10	0.00433	-0.11686	4
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'CITY OF GIRARD 69KV'	3	0.00215	-0.11468	4
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'CITY OF IOLA 69KV'	17	0.00348	-0.11601	4
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'CITY OF MULVANE 69KV'	5	0.0126	-0.12513	4
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00842	-0.12095	4
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'EVANS ENERGY CENTER 138KV'	340	0.00936	-0.12189	4
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'GILL ENERGY CENTER 138KV'	155	0.0092	-0.12173	4
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'HOLTON 115KV'	13	0.00521	-0.11774	4
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.00416	-0.11669	4
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0048	-0.11733	4
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00478	-0.11731	4
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00465	-0.11718	4
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.00473	-0.11726	4
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'TECUMSEH ENERGY CENTER 115KV'	87	0.00483	-0.11736	4
WERE	'CITY OF WELLINGTON 69KV'	24	-0.11253	WERE	'WACO 138KV'	18	0.00922	-0.12175	4
WERE	'ABILENE ENERGY CENTER 115KV'	6	0.00465	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05806	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	39	0.00429	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05842	8
WERE	'BROWN COUNTY 115KV'	6	0.00585	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05886	8
WERE	'CHANUTE 69KV'	47	0.00385	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05886	8
WERE	'CITY OF ERIE 69KV'	23	0.00385	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05886	8
WERE	'CITY OF GIRARD 69KV'	8	0.00215	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.06056	8
WERE	'CITY OF IOLA 69KV'	21	0.00348	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05923	8
WERE	'CITY OF NEODESHA 69KV'	5	0.00337	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05934	8
WERE	'CITY OF OSAGE CITY 115KV'	11	0.00516	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05755	8
WERE	'CLAY CENTER JUNCTION 115KV'	29	0.00474	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05797	8
WERE	'GILL ENERGY CENTER 69KV'	118	0.00496	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05775	8
WERE	'HOLTON 115KV'	19	0.00521	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.0575	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	263	0.00416	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05855	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	0.00416	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05855	8
WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.0048	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05791	8
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.00478	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05793	8
WERE	'LAWRENCE ENERGY CENTER 115KV'	78	0.00465	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05806	8
WERE	'LAWRENCE ENERGY CENTER 230KV'	35	0.00473	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05798	8
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.00292	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05979	8
WERE	'SMOKYHIL 230 230KV'	72	0.00432	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05839	8
WERE	'SOUTH SENECA 115KV'	20	0.00573	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05698	8
WERE	'ST JOHN 115KV'	8	0.00402	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05869	8
WERE	'TECUMSEH ENERGY CENTER 115KV'	104	0.00483	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05788	8
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	0.00483	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05788	8
WERE	'CITY OF BURLINGTON 69KV'	8	0.00842	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05429	9
WERE	'CITY OF MULVANE 69KV'	11	0.0126	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05011	9
WERE	'EVANS ENERGY CENTER 138KV'	313	0.00936	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05335	9
WERE	'GILL ENERGY CENTER 138KV'	18	0.0092	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05351	9
WERE	'LATHAM1234.0 345KV'	150	0.00924	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.05347	9
WERE	'GETTY 69KV'	35	0.02488	WERE	'CITY OF AUGUSTA 69KV'	20	0.06271	-0.03783	13

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: Seven Rivers to Pecos to Potash Junction 230kV  
 Limiting Facility: POTASH JUNCTION INTERCHANGE 230/115KV TRANSFORMER CKT 1  
 Direction: To  
 Line Outage: CUNNINGHAM STATION - EDDY COUNTY INTERCHANGE 230KV CKT 1  
 Flowgate: 52252522531522095218512411SP  
 Date Redispatch Needed: 6/1 - 10/1 Until EOC of Upgrade Starting 2009  
 Season Flowgate Identified: 2011 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	Redispatch Amount (MW)
1090487	3.4	4	SPS	'TUCUMCARI 115KV'	15	-0.02657	SPS	'CUNNINGHAM 230KV'	306	0.142	-0.16857	23
1090695	0.4	4	SPS	'RIVERVIEW 69KV'	23	-0.00348	SPS	'CUNNINGHAM 230KV'	306	0.142	-0.14548	26

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: Seven Rivers to Pecos to Potash Junction 230kV  
 Limiting Facility: CARLSBAD PLANT - POTASH JUNCTION INTERCHANGE 115KV CKT 1  
 Direction: To->From  
 Line Outage: CUNNINGHAM STATION - EDDY COUNTY INTERCHANGE 230KV CKT 1  
 Flowgate: 52310522521522095218511207SP

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

Date Redispatch Needed: 6/1/07 - 10/1/07  
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount								
1090487		3.0								3
1090695		0.3								3
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)	
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'CUNNINGHAM 115KV'	110	0.10078	-0.36596	9	
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'CUNNINGHAM 115KV'	71	0.10078	-0.36596	9	
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'CUNNINGHAM 230KV'	306	0.10412	-0.3693	9	
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'MADDOX 115KV'	183	0.09795	-0.36313	9	
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'MUSTANG 115KV'	300	0.05555	-0.32073	10	
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'MUSTG5 118.0 230KV'	360	0.04864	-0.31382	10	
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'JONES 230KV'	486	0.01408	-0.27926	12	
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'LP-BRND2 69KV'	175	0.01314	-0.27832	12	
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'BLACKHAWK 115KV'	220	-0.00345	-0.26173	13	
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'CZ 69KV'	39	-0.00318	-0.262	13	
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'HARRINGTON 230KV'	1066	-0.00354	-0.26164	13	
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'HUBRCO2 69KV'	11	-0.00345	-0.26173	13	
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'MOORE COUNTY 115KV'	48	-0.0036	-0.26158	13	
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'NICHOLS 115KV'	213	-0.00345	-0.26173	13	
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'NICHOLS 230KV'	244	-0.0035	-0.26168	13	
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'PLANTX 115KV'	253	-0.00574	-0.25944	13	
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'PLANTX 230KV'	189	-0.00895	-0.25623	13	
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'SIDRCH 69KV'	20	-0.00345	-0.26173	13	
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'STEER WATER 115KV'	10	-0.00332	-0.26186	13	
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'TOLK 230KV'	1036	-0.01282	-0.25236	13	
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'WILWIND 230KV'	20	-0.00498	-0.2602	13	
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'CAPROCK 115KV'	10	-0.02589	-0.23929	14	
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'SAN JUAN 230KV'	15	-0.06407	-0.20111	16	
SPS	'TUCUMCARI 115KV'	15	-0.02589	SPS	'CUNNINGHAM 230KV'	306	0.10412	-0.13001	25	
SPS	'TUCUMCARI 115KV'	15	-0.02589	SPS	'CUNNINGHAM 115KV'	110	0.10078	-0.12667	26	
SPS	'TUCUMCARI 115KV'	15	-0.02589	SPS	'CUNNINGHAM 115KV'	71	0.10078	-0.12667	26	
SPS	'TUCUMCARI 115KV'	15	-0.02589	SPS	'MADDOX 115KV'	183	0.09795	-0.12384	27	
SPS	'RIVERVIEW 69KV'	23	-0.00345	SPS	'CUNNINGHAM 230KV'	306	0.10412	-0.10757	31	
SPS	'RIVERVIEW 69KV'	23	-0.00345	SPS	'CUNNINGHAM 115KV'	110	0.10078	-0.10423	32	
SPS	'RIVERVIEW 69KV'	23	-0.00345	SPS	'CUNNINGHAM 115KV'	71	0.10078	-0.10423	32	
SPS	'RIVERVIEW 69KV'	23	-0.00345	SPS	'MADDOX 115KV'	183	0.09795	-0.1014	32	
SPS	'Lubbock Power and Light'	57	0.01314	SPS	'CUNNINGHAM 230KV'	306	0.10412	-0.09098	36	
SPS	'Lubbock Power and Light'	57	0.01314	SPS	'CUNNINGHAM 115KV'	110	0.10078	-0.08764	38	
SPS	'Lubbock Power and Light'	57	0.01314	SPS	'CUNNINGHAM 115KV'	71	0.10078	-0.08764	38	
SPS	'Lubbock Power and Light'	57	0.01314	SPS	'MADDOX 115KV'	183	0.09795	-0.08481	39	
SPS	'TUCUMCARI 115KV'	15	-0.02589	SPS	'MUSTANG 115KV'	300	0.05555	-0.08144	40	
SPS	'TUCUMCARI 115KV'	15	-0.02589	SPS	'MUSTG5 118.0 230KV'	360	0.04864	-0.07453	44	
SPS	'RIVERVIEW 69KV'	23	-0.00345	SPS	'MUSTANG 115KV'	300	0.05555	-0.059	56	
SPS	'RIVERVIEW 69KV'	23	-0.00345	SPS	'MUSTG5 118.0 230KV'	360	0.04864	-0.05209	63	
SPS	'Lubbock Power and Light'	57	0.01314	SPS	'MUSTANG 115KV'	300	0.05555	-0.04241	78	
SPS	'Lubbock Power and Light'	57	0.01314	SPS	'MUSTG5 118.0 230KV'	360	0.04864	-0.0355	93	

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: Seven Rivers to Pecos to Potash Junction 230kV  
 Limiting Facility: CARLSBAD PLANT - POTASH JUNCTION INTERCHANGE 115KV CKT 1  
 Direction: To->From  
 Line Outage: CUNNINGHAM STATION - EDDY COUNTY INTERCHANGE 230KV CKT 1  
 Flowgate: 52310522521522095218511408SP  
 Date Redispatch Needed: Starting 2008 6/1 - 10/1 Until EOC  
 Season Flowgate Identified: 2008 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount								
1090298		0.1								2
1090301		0.3								2
1090310		0.3								2
1090315		0.3								2
1090454		0.1								2
1090456		0.1								2
1090487		1.3								2
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)	
SPS	'CARLSBAD 69KV'	18	-0.26527	SPS	'CUNNINGHAM 230KV'	306	0.10397	-0.36924	6	
SPS	'CARLSBAD 69KV'	18	-0.26527	SPS	'CUNNINGHAM 115KV'	110	0.10063	-0.3659	7	
SPS	'CARLSBAD 69KV'	18	-0.26527	SPS	'CUNNINGHAM 115KV'	71	0.10063	-0.3659	7	
SPS	'CARLSBAD 69KV'	18	-0.26527	SPS	'MADDOX 115KV'	183	0.09779	-0.36306	7	
SPS	'CARLSBAD 69KV'	18	-0.26527	SPS	'MUSTANG 115KV'	300	0.05538	-0.32065	7	
SPS	'CARLSBAD 69KV'	18	-0.26527	SPS	'MUSTG5 118.0 230KV'	360	0.04848	-0.31375	8	
SPS	'CARLSBAD 69KV'	18	-0.26527	SPS	'BLACKHAWK 115KV'	220	-0.00338	-0.26189	9	
SPS	'CARLSBAD 69KV'	18	-0.26527	SPS	'CZ 69KV'	39	-0.0031	-0.26217	9	
SPS	'CARLSBAD 69KV'	18	-0.26527	SPS	'HARRINGTON 230KV'	1066	-0.00347	-0.2618	9	
SPS	'CARLSBAD 69KV'	18	-0.26527	SPS	'HUBRCO2 69KV'	11	-0.00338	-0.26189	9	
SPS	'CARLSBAD 69KV'	18	-0.26527	SPS	'JONES 230KV'	486	0.01371	-0.27898	9	
SPS	'CARLSBAD 69KV'	18	-0.26527	SPS	'LP-BRND2 69KV'	80	0.01279	-0.27806	9	
SPS	'CARLSBAD 69KV'	18	-0.26527	SPS	'MOORE COUNTY 115KV'	48	-0.00338	-0.26173	9	
SPS	'CARLSBAD 69KV'	18	-0.26527	SPS	'NICHOLS 115KV'	147	-0.00338	-0.26189	9	
SPS	'CARLSBAD 69KV'	18	-0.26527	SPS	'NICHOLS 230KV'	147	-0.00343	-0.26184	9	
SPS	'CARLSBAD 69KV'	18	-0.26527	SPS	'PLANTX 115KV'	238	-0.00558	-0.25969	9	
SPS	'CARLSBAD 69KV'	18	-0.26527	SPS	'PLANTX 230KV'	189	-0.00895	-0.25632	9	
SPS	'CARLSBAD 69KV'	18	-0.26527	SPS	'SIDRCH 69KV'	20	-0.00338	-0.26189	9	
SPS	'CARLSBAD 69KV'	18	-0.26527	SPS	'STEER WATER 115KV'	8	-0.00324	-0.26203	9	
SPS	'CARLSBAD 69KV'	18	-0.26527	SPS	'TOLK 230KV'	1042	-0.01283	-0.25244	9	

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

SPS	'CARLSBAD 69KV'	18	-0.26527	SPS	'WILWIND 230KV'	16	-0.00493	-0.26034	9
SPS	'CARLSBAD 69KV'	18	-0.26527	SPS	'CAPROCK 115KV'	8	-0.02589	-0.23938	10
SPS	'CARLSBAD 69KV'	18	-0.26527	SPS	'SAN JUAN 230KV'	12	-0.0641	-0.20117	12
SPS	'TUCUMCARI 115KV'	15	-0.02589	SPS	'CUNNINGHAM 230KV'	306	0.10397	-0.12986	18
SPS	'TUCUMCARI 115KV'	15	-0.02589	SPS	'CUNNINGHAM 115KV'	110	0.10063	-0.12652	19
SPS	'TUCUMCARI 115KV'	15	-0.02589	SPS	'CUNNINGHAM 115KV'	71	0.10063	-0.12652	19
SPS	'TUCUMCARI 115KV'	15	-0.02589	SPS	'MADOX 115KV'	183	0.09779	-0.12368	19
SPS	'NICHOLS 115KV'	66	-0.00338	SPS	'CUNNINGHAM 230KV'	306	0.10397	-0.10735	22
SPS	'NICHOLS 230KV'	97	-0.00343	SPS	'CUNNINGHAM 230KV'	306	0.10397	-0.1074	22
SPS	'PLANTX 115KV'	15	-0.00558	SPS	'CUNNINGHAM 115KV'	110	0.10063	-0.10621	22
SPS	'PLANTX 115KV'	15	-0.00558	SPS	'CUNNINGHAM 115KV'	71	0.10063	-0.10621	22
SPS	'PLANTX 115KV'	15	-0.00558	SPS	'CUNNINGHAM 230KV'	306	0.10397	-0.10955	22
SPS	'RIVERVIEW 69KV'	23	-0.00338	SPS	'CUNNINGHAM 230KV'	306	0.10397	-0.10735	22
SPS	'NICHOLS 115KV'	66	-0.00338	SPS	'CUNNINGHAM 115KV'	110	0.10063	-0.10401	23
SPS	'NICHOLS 115KV'	66	-0.00338	SPS	'CUNNINGHAM 115KV'	71	0.10063	-0.10401	23
SPS	'NICHOLS 230KV'	97	-0.00343	SPS	'CUNNINGHAM 115KV'	110	0.10063	-0.10406	23
SPS	'NICHOLS 230KV'	97	-0.00343	SPS	'CUNNINGHAM 115KV'	71	0.10063	-0.10406	23
SPS	'PLANTX 115KV'	15	-0.00558	SPS	'MADOX 115KV'	183	0.09779	-0.10337	23
SPS	'RIVERVIEW 69KV'	23	-0.00338	SPS	'CUNNINGHAM 115KV'	110	0.10063	-0.10401	23
SPS	'RIVERVIEW 69KV'	23	-0.00338	SPS	'CUNNINGHAM 115KV'	71	0.10063	-0.10401	23
SPS	'NICHOLS 115KV'	66	-0.00338	SPS	'MADOX 115KV'	183	0.09779	-0.10117	24
SPS	'NICHOLS 230KV'	97	-0.00343	SPS	'MADOX 115KV'	183	0.09779	-0.10122	24
SPS	'RIVERVIEW 69KV'	23	-0.00338	SPS	'MADOX 115KV'	183	0.09779	-0.10117	24
SPS	'Lubbock Power and Light'	152	0.01279	SPS	'CUNNINGHAM 230KV'	306	0.10397	-0.09118	26
SPS	'Lubbock Power and Light'	152	0.01279	SPS	'CUNNINGHAM 115KV'	110	0.10063	-0.08784	27
SPS	'Lubbock Power and Light'	152	0.01279	SPS	'CUNNINGHAM 115KV'	71	0.10063	-0.08784	27
SPS	'Lubbock Power and Light'	152	0.01279	SPS	'MADOX 115KV'	183	0.09779	-0.085	28
SPS	'TUCUMCARI 115KV'	15	-0.02589	SPS	'MUSTANG 115KV'	300	0.05538	-0.08127	29
SPS	'TUCUMCARI 115KV'	15	-0.02589	SPS	'MUSTGS 118.0 230KV'	360	0.04848	-0.07437	32
SPS	'PLANTX 115KV'	15	-0.00558	SPS	'MUSTANG 115KV'	300	0.05538	-0.06096	39
SPS	'NICHOLS 115KV'	66	-0.00338	SPS	'MUSTANG 115KV'	300	0.05538	-0.05876	41
SPS	'NICHOLS 230KV'	97	-0.00343	SPS	'MUSTANG 115KV'	300	0.05538	-0.05881	41
SPS	'RIVERVIEW 69KV'	23	-0.00338	SPS	'MUSTANG 115KV'	300	0.05538	-0.05876	41
SPS	'PLANTX 115KV'	15	-0.00558	SPS	'MUSTGS 118.0 230KV'	360	0.04848	-0.05406	44
SPS	'NICHOLS 115KV'	66	-0.00338	SPS	'MUSTGS 118.0 230KV'	360	0.04848	-0.05186	46
SPS	'NICHOLS 230KV'	97	-0.00343	SPS	'MUSTGS 118.0 230KV'	360	0.04848	-0.05191	46
SPS	'RIVERVIEW 69KV'	23	-0.00338	SPS	'MUSTGS 118.0 230KV'	360	0.04848	-0.05186	46
SPS	'Lubbock Power and Light'	152	0.01279	SPS	'MUSTANG 115KV'	300	0.05538	-0.04259	56
SPS	'Lubbock Power and Light'	152	0.01279	SPS	'MUSTGS 118.0 230KV'	360	0.04848	-0.03569	67

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 LAWRENCE - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT 1  
 Limiting Facility: SOUTHWEST LAWRENCE - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT 1  
 Direction: From->To  
 Line Outage: FARMERS CONSUMER CO-OP - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT 1  
 Flowgate: 57271572771572365727711107SP  
 Date Redispatch Needed: 6/1/07 - 10/1/07  
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090729	0.7	1
1090808	0.2	1
1090823	0.1	1
1090825	0.2	1
1090840	0.2	1

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
WERE	'CHANUTE 69KV'	31	0.00049	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.09688	-0.09639	14
WERE	'CITY OF GIRARD 69KV'	6	-0.0001	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.09688	-0.09689	14
WERE	'CITY OF IOLA 69KV'	13	-0.00014	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.09688	-0.09702	14
WERE	'NEOSHO ENERGY CENTER 138KV'	47	0.00077	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.09688	-0.09611	14
WERE	'CITY OF MULVANE 69KV'	8	0.00553	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.09688	-0.09135	15
WERE	'CITY OF WINFIELD 69KV'	40	0.00466	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.09688	-0.09222	15
WERE	'EVANS ENERGY CENTER 138KV'	8	0.00641	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.09688	-0.09047	15
WERE	'GETTY 69KV'	35	0.00518	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.09688	-0.0917	15
WERE	'GILL ENERGY CENTER 69KV'	8	0.00589	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.09688	-0.09099	15
WERE	'LATHAM1234.0 345KV'	150	0.00362	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.09688	-0.09326	15
WERE	'BROWN COUNTY 115KV'	6	0.01138	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.09688	-0.0855	16
WERE	'HUTCHINSON ENERGY CENTER 115KV'	133	0.01777	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.09688	-0.07911	17
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	0.01776	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.09688	-0.07912	17
WERE	'ST JOHN 115KV'	8	0.0139	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.09688	-0.08298	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	11	0.01859	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.09688	-0.07829	18
WERE	'HOLTON 115KV'	17	0.01876	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.09688	-0.07812	18
WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.02199	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.09688	-0.07489	18
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.01951	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.09688	-0.07737	18
WERE	'SMOKYHIL 230 230KV'	72	0.01826	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.09688	-0.07862	18
WERE	'CITY OF IOLA 69KV'	13	-0.00014	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07079	-0.07093	19
WERE	'CLAY CENTER JUNCTION 115KV'	12	0.0232	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.09688	-0.07368	19
WERE	'CHANUTE 69KV'	31	0.00049	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07079	-0.0703	20
WERE	'NEOSHO ENERGY CENTER 138KV'	47	0.00077	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07079	-0.07002	20
WERE	'CITY OF MULVANE 69KV'	8	0.00553	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07079	-0.06526	21
WERE	'CITY OF OSAGE CITY 115KV'	11	0.02976	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.09688	-0.06712	21
WERE	'CITY OF WINFIELD 69KV'	40	0.00466	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07079	-0.06613	21
WERE	'EVANS ENERGY CENTER 138KV'	8	0.00641	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07079	-0.06438	21
WERE	'GETTY 69KV'	35	0.00518	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07079	-0.06561	21
WERE	'GILL ENERGY CENTER 69KV'	8	0.00589	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07079	-0.0649	21
WERE	'LATHAM1234.0 345KV'	150	0.00362	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07079	-0.06717	21
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	0.04149	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.09688	-0.05539	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	11	0.01859	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07079	-0.0522	26
WERE	'HUTCHINSON ENERGY CENTER 115KV'	133	0.01777	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07079	-0.05302	26
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	0.01776	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07079	-0.05303	26

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'SMOKYHIL 230 230KV'	72	0.01826	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07079	-0.05253	26
WERE	'HOLTON 115KV'	17	0.01876	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07079	-0.05203	27
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.01951	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07079	-0.05128	27
WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.02199	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07079	-0.0488	28
WERE	'CLAY CENTER JUNCTION 115KV'	12	0.0232	WERE	'LAWRENCE ENERGY CENTER 230KV'	235	0.07079	-0.04759	29
WERE	'CHANUTE 69KV'	31	0.00049	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.04331	-0.04282	32
WERE	'CITY OF IOLA 69KV'	13	-0.00014	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.04331	-0.04345	32
WERE	'NEOSHO ENERGY CENTER 138KV'	47	0.00077	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.04331	-0.04254	32
WERE	'LATHAM1234.0 345KV'	150	0.00362	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.04331	-0.03969	35
WERE	'CITY OF WINFIELD 69KV'	40	0.00466	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.04331	-0.03865	36
WERE	'GETTY 69KV'	35	0.00518	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.04331	-0.03813	36

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: STULL SWITCHING STATION - TECUMSEH HILL 115KV CKT 1  
 Limiting Facility: STULL SWITCHING STATION - TECUMSEH HILL 115KV CKT 1  
 Direction: To->From  
 Line Outage: HOYT - STRANGER CREEK 345KV CKT 1  
 Flowgate: 57270571821567655677211107FA  
 Date Redispatch Needed: Starting 2007 10/1 - 12/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Fall Peak

Reservation	Relief Amount	Aggregate Relief Amount
1089950	1.7	3
1090699	0.6	3
1090705	0.6	3

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.15496	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.16412	-0.31908	9
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.08761	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.16412	-0.25173	12
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.15496	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.06312	-0.21808	13
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.15496	WERE	'HOLTON 115KV'	8	0.07498	-0.22994	13
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.15496	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.06795	-0.22291	13
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.15496	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.06831	-0.22327	13
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.15496	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06019	-0.21515	14
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.15496	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.04874	-0.2037	14
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.15496	WERE	'SOUTH SENECA 115KV'	9	0.04144	-0.1964	15
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.15496	WERE	'EVANS ENERGY CENTER 138KV'	329	0.01445	-0.16941	17
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.15496	WERE	'GILL ENERGY CENTER 138KV'	155	0.01383	-0.16879	17
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.15496	WERE	'WACO 138KV'	18	0.01389	-0.16885	17
WERE	'CHANUTE 69KV'	32	0.00296	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.16412	-0.16116	18
WERE	'CITY OF BURLINGTON 69KV'	8	0.00537	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.16412	-0.15875	18
WERE	'CITY OF ERIE 69KV'	23	0.00296	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.16412	-0.16116	18
WERE	'CITY OF GIRARD 69KV'	9	0.00179	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.16412	-0.16233	18
WERE	'CITY OF IOLA 69KV'	13	0.00202	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.16412	-0.1621	18
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.15496	WERE	'CITY OF AUGUSTA 69KV'	20	0.01224	-0.1672	18
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.15496	WERE	'CITY OF WELLINGTON 69KV'	20	0.01191	-0.16687	18
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.15496	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00537	-0.16033	18
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.08761	WERE	'HOLTON 115KV'	8	0.07498	-0.16259	18
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.00294	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.16412	-0.16118	18
WERE	'CITY OF AUGUSTA 69KV'	7	0.01224	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.16412	-0.15188	19
WERE	'CITY OF MULVANE 69KV'	11	0.01275	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.16412	-0.15137	19
WERE	'CITY OF WELLINGTON 69KV'	24	0.01191	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.16412	-0.15221	19
WERE	'CITY OF WINFIELD 69KV'	40	0.01093	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.16412	-0.15319	19
WERE	'GETTY 69KV'	35	0.01244	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.16412	-0.15168	19
WERE	'LATHAM1234.0 345KV'	150	0.00863	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.16412	-0.15549	19
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.15496	WERE	'CHANUTE 69KV'	56	0.00296	-0.15792	19
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.15496	WERE	'CITY OF IOLA 69KV'	24	0.00202	-0.15698	19
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.08761	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.06312	-0.15073	19
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.08761	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.06795	-0.15556	19
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.08761	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.06831	-0.15592	19
WERE	'EVANS ENERGY CENTER 138KV'	414	0.01445	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.16412	-0.14967	20
WERE	'GILL ENERGY CENTER 138KV'	18	0.01383	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.16412	-0.15029	20
WERE	'GILL ENERGY CENTER 69KV'	118	0.01356	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.16412	-0.15056	20
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.08761	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06019	-0.1478	20
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.08761	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.04874	-0.13635	22
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.08761	WERE	'SOUTH SENECA 115KV'	9	0.04144	-0.12905	23
WERE	'SOUTH SENECA 115KV'	11	0.04144	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.16412	-0.12268	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	263	0.04874	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.16412	-0.11538	25
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	0.04873	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.16412	-0.11539	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	0.05151	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.16412	-0.11261	26
WERE	'SMOKYHIL 230 230KV'	72	0.05104	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.16412	-0.11308	26
WERE	'CLAY CENTER JUNCTION 115KV'	31	0.06312	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.16412	-0.101	29
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.08761	WERE	'CITY OF AUGUSTA 69KV'	20	0.01224	-0.09985	29
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.08761	WERE	'EVANS ENERGY CENTER 138KV'	329	0.01445	-0.10206	29
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.08761	WERE	'GILL ENERGY CENTER 138KV'	155	0.01383	-0.10144	29
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.08761	WERE	'WACO 138KV'	18	0.01389	-0.1015	29
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.08761	WERE	'CITY OF WELLINGTON 69KV'	20	0.01191	-0.09952	30
WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.06795	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.16412	-0.09617	31
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.06831	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.16412	-0.09581	31
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.08761	WERE	'CHANUTE 69KV'	56	0.00296	-0.09057	32
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.08761	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00537	-0.09298	32
WERE	'HOLTON 115KV'	24	0.07498	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.16412	-0.08914	33
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.08761	WERE	'CITY OF IOLA 69KV'	24	0.00202	-0.08963	33
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.15496	WERE	'LAWRENCE ENERGY CENTER 230KV'	228	-0.08761	-0.06735	44
WERE	'CHANUTE 69KV'	32	0.00296	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.06795	-0.06499	45
WERE	'CHANUTE 69KV'	32	0.00296	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.06831	-0.06535	45
WERE	'CITY OF ERIE 69KV'	23	0.00296	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.06795	-0.06499	45
WERE	'CITY OF ERIE 69KV'	23	0.00296	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.06831	-0.06535	45
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.00294	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.06795	-0.06501	45
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.00294	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.06831	-0.06537	45
WERE	'LATHAM1234.0 345KV'	150	0.00863	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.06795	-0.05932	49

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'LATHAM1234.0 345KV'	150	0.00863	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.06831	-0.05968	49
WERE	'CHANUTE 69KV'	32	0.00296	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06019	-0.05723	51
WERE	'CITY OF ERIE 69KV'	23	0.00296	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06019	-0.05723	51
WERE	'CITY OF WINFIELD 69KV'	40	0.01093	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.06795	-0.05702	51
WERE	'CITY OF WINFIELD 69KV'	40	0.01093	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.06831	-0.05738	51
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.00294	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06019	-0.05725	51
WERE	'CITY OF WELLINGTON 69KV'	24	0.01191	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.06795	-0.05604	52
WERE	'CITY OF WELLINGTON 69KV'	24	0.01191	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.06831	-0.0564	52
WERE	'GETTY 69KV'	35	0.01244	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.06795	-0.05551	53
WERE	'GETTY 69KV'	35	0.01244	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.06831	-0.05587	53
WERE	'GILL ENERGY CENTER 69KV'	118	0.01356	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.06795	-0.05439	54
WERE	'GILL ENERGY CENTER 69KV'	118	0.01356	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.06831	-0.05475	54
WERE	'EVANS ENERGY CENTER 138KV'	414	0.01445	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.06795	-0.05535	55
WERE	'EVANS ENERGY CENTER 138KV'	414	0.01445	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.06831	-0.05386	55
WERE	'LATHAM1234.0 345KV'	150	0.00863	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06019	-0.05156	57
WERE	'CITY OF WINFIELD 69KV'	40	0.01093	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06019	-0.04926	60
WERE	'CITY OF WELLINGTON 69KV'	24	0.01191	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06019	-0.04828	61
WERE	'GETTY 69KV'	35	0.01244	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06019	-0.04775	61
WERE	'GILL ENERGY CENTER 69KV'	118	0.01356	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06019	-0.04663	63
WERE	'CHANUTE 69KV'	32	0.00296	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.04874	-0.04578	64
WERE	'CITY OF ERIE 69KV'	23	0.00296	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.04874	-0.04578	64
WERE	'EVANS ENERGY CENTER 138KV'	414	0.01445	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06019	-0.04574	64
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.00294	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.04874	-0.0458	64
MIDW	'LYONS 115KV'	999	0.00039	MIDW	'KNOLL 3 115 115KV'	9999	0.04192	-0.04153	71
WERE	'LATHAM1234.0 345KV'	150	0.00863	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.04874	-0.04011	73
WERE	'CITY OF WINFIELD 69KV'	40	0.01093	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.04874	-0.03781	78
WERE	'GETTY 69KV'	35	0.01244	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.04874	-0.0363	81
WERE	'GILL ENERGY CENTER 69KV'	118	0.01356	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.04874	-0.03518	83
WERE	'EVANS ENERGY CENTER 138KV'	414	0.01445	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.04874	-0.03429	86

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: STULL SWITCHING STATION - TECUMSEH HILL 115KV CKT 1  
 Limiting Facility: STULL SWITCHING STATION - TECUMSEH HILL 115KV CKT 1  
 Direction: To->From  
 Line Outage: GEN:56663 1  
 Flowgate: 57270571821GEN5666311107FA  
 Date Redispatch Needed: Starting 2007 10/1 - 12/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Fall Peak

Reservation	Relief Amount	Aggregate Relief Amount			Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)	
1089950	0.9	1							
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.16509	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.13706	-0.30215	3
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.16509	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.03309	-0.19818	4
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.16509	WERE	'HOLTON 115KV'	8	0.04206	-0.20715	4
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.10091	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.13706	-0.23797	4
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.16509	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.03019	-0.19528	5
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.16509	WERE	'CHANUTE 69KV'	56	0.00084	-0.16593	5
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.16509	WERE	'CITY OF AUGUSTA 69KV'	20	0.00557	-0.17066	5
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.16509	WERE	'CITY OF BURLINGTON 69KV'	5	0.00209	-0.16718	5
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.16509	WERE	'CITY OF ERIE 69KV'	4	0.00084	-0.16593	5
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.16509	WERE	'CITY OF FREDONIA 69KV'	5	0.00152	-0.16661	5
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.16509	WERE	'CITY OF GIRARD 69KV'	2	0.00028	-0.16537	5
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.16509	WERE	'CITY OF IOLA 69KV'	24	0.0003	-0.16539	5
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.16509	WERE	'CITY OF MULVANE 69KV'	5	0.00573	-0.17082	5
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.16509	WERE	'CITY OF WELLINGTON 69KV'	20	0.00534	-0.17043	5
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.16509	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00209	-0.16718	5
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.16509	WERE	'EVANS ENERGY CENTER 138KV'	329	0.00653	-0.17162	5
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.16509	WERE	'GILL ENERGY CENTER 138KV'	155	0.00624	-0.17133	5
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.16509	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.02245	-0.18754	5
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.16509	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02951	-0.1946	5
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.16509	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02635	-0.19144	5
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.16509	WERE	'SOUTH SENECA 115KV'	9	0.02291	-0.188	5
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.16509	WERE	'WACO 138KV'	18	0.00627	-0.17136	5
WERE	'CITY OF GIRARD 69KV'	9	0.00028	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.13706	-0.13678	6
WERE	'CITY OF IOLA 69KV'	13	0.0003	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.13706	-0.13676	6
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.10091	WERE	'HOLTON 115KV'	8	0.04206	-0.14297	6
WERE	'CHANUTE 69KV'	32	0.00084	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.13706	-0.13622	7
WERE	'CITY OF AUGUSTA 69KV'	7	0.00557	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.13706	-0.13149	7
WERE	'CITY OF BURLINGTON 69KV'	8	0.00209	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.13706	-0.13497	7
WERE	'CITY OF ERIE 69KV'	23	0.00084	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.13706	-0.13622	7
WERE	'CITY OF FREDONIA 69KV'	5	0.00152	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.13706	-0.13554	7
WERE	'CITY OF MULVANE 69KV'	11	0.00573	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.13706	-0.13133	7
WERE	'CITY OF NEODESHA 69KV'	5	0.00146	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.13706	-0.1356	7
WERE	'CITY OF WELLINGTON 69KV'	24	0.00534	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.13706	-0.13172	7
WERE	'CITY OF WINFIELD 69KV'	40	0.00488	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.13706	-0.13218	7
WERE	'EVANS ENERGY CENTER 138KV'	414	0.00653	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.13706	-0.13053	7
WERE	'GETTY 69KV'	35	0.00572	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.13706	-0.13134	7
WERE	'GILL ENERGY CENTER 138KV'	18	0.00624	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.13706	-0.13082	7
WERE	'GILL ENERGY CENTER 69KV'	118	0.00611	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.13706	-0.13095	7
WERE	'LATHAM1234.0 345KV'	150	0.0037	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.13706	-0.13336	7
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.10091	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.03019	-0.1311	7
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.10091	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.03309	-0.134	7
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.10091	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.02245	-0.12336	7
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.10091	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02951	-0.13042	7
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.10091	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02635	-0.12726	7
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.10091	WERE	'SOUTH SENECA 115KV'	9	0.02291	-0.12382	7
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.00092	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.13706	-0.13614	7
WERE	'OXFORD 138KV'	3	0.005	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.13706	-0.13206	7
WERE	'ST JOHN 115KV'	8	0.01739	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.13706	-0.11967	7

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'ABILENE ENERGY CENTER 115KV'	6	0.03019	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.13706	-0.10687	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	0.02349	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.13706	-0.11357	8
WERE	'BROWN COUNTY 115KV'	6	0.02245	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.13706	-0.11461	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	263	0.02245	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.13706	-0.11461	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	0.02244	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.13706	-0.11462	8
WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.02951	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.13706	-0.10755	8
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.02635	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.13706	-0.11071	8
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.10091	WERE	'CITY OF AUGUSTA 69KV'	20	0.00557	-0.10648	8
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.10091	WERE	'CITY OF MULVANE 69KV'	5	0.00573	-0.10664	8
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.10091	WERE	'CITY OF WELLINGTON 69KV'	20	0.00534	-0.10625	8
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.10091	WERE	'EVANS ENERGY CENTER 138KV'	329	0.00653	-0.10744	8
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.10091	WERE	'GILL ENERGY CENTER 138KV'	155	0.00624	-0.10715	8
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.10091	WERE	'WACO 138KV'	18	0.00627	-0.10718	8
WERE	'SMOKYHIL 230 230KV'	72	0.02286	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.13706	-0.1142	8
WERE	'SOUTH SENECA 115KV'	11	0.02291	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.13706	-0.11415	8
WERE	'CLAY CENTER JUNCTION 115KV'	31	0.03309	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.13706	-0.10397	9
WERE	'HOLTON 115KV'	24	0.04206	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.13706	-0.095	9
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.10091	WERE	'CHANUTE 69KV'	56	0.00084	-0.10175	9
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.10091	WERE	'CITY OF BURLINGTON 69KV'	5	0.00209	-0.103	9
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.10091	WERE	'CITY OF ERIE 69KV'	4	0.00084	-0.10175	9
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.10091	WERE	'CITY OF FREDONIA 69KV'	5	0.00152	-0.10243	9
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.10091	WERE	'CITY OF IOLA 69KV'	24	0.0003	-0.10121	9
WERE	'LAWRENCE ENERGY CENTER 230KV'	41	-0.10091	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00209	-0.103	9
WERE	'CITY OF OSAGE CITY 115KV'	11	0.071	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.13706	-0.06606	13
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.16509	WERE	'LAWRENCE ENERGY CENTER 230KV'	228	-0.10091	-0.06418	14
WERE	'CITY OF GIRARD 69KV'	9	0.00028	WERE	'HOLTON 115KV'	8	0.04206	-0.04178	21
WERE	'CITY OF IOLA 69KV'	13	0.0003	WERE	'HOLTON 115KV'	8	0.04206	-0.04176	21
WERE	'CHANUTE 69KV'	32	0.00084	WERE	'HOLTON 115KV'	8	0.04206	-0.04122	22
WERE	'CITY OF BURLINGTON 69KV'	8	0.00209	WERE	'HOLTON 115KV'	8	0.04206	-0.03997	22
WERE	'CITY OF ERIE 69KV'	23	0.00084	WERE	'HOLTON 115KV'	8	0.04206	-0.04122	22
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.00092	WERE	'HOLTON 115KV'	8	0.04206	-0.04114	22
WERE	'LATHAM1234.0 345KV'	150	0.0037	WERE	'HOLTON 115KV'	8	0.04206	-0.03836	23
WERE	'CITY OF MULVANE 69KV'	11	0.00573	WERE	'HOLTON 115KV'	8	0.04206	-0.03633	24
WERE	'CITY OF WELLINGTON 69KV'	24	0.00534	WERE	'HOLTON 115KV'	8	0.04206	-0.03672	24
WERE	'CITY OF WINFIELD 69KV'	40	0.00488	WERE	'HOLTON 115KV'	8	0.04206	-0.03718	24
WERE	'GETTY 69KV'	35	0.00572	WERE	'HOLTON 115KV'	8	0.04206	-0.03634	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: SW SHREVEPORT EXPANSION  
 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: SWSHV12741SWSSHV27422111SP  
 Date Redispatch Needed: 6/1 - 10/1 Until EOC of Upgrade Starting 2009  
 Season Flowgate Identified: 2011 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount
1085305	8.5	29
1086235	2.1	29
1086238	0.4	29
1087745	6.4	29
1087757	4.6	29
1090812	6.9	29

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
AEPW	'ARSENAL HILL 69KV'	99	-0.39169	AEPW	'COGENTRIX 345KV'	665	-0.00267	-0.38902	74
AEPW	'ARSENAL HILL 69KV'	99	-0.39169	AEPW	'FITZHUGH 161KV'	126	-0.00085	-0.39084	74
AEPW	'ARSENAL HILL 69KV'	99	-0.39169	AEPW	'FLINT CREEK 161KV'	428	-0.00211	-0.38958	74
AEPW	'ARSENAL HILL 69KV'	99	-0.39169	AEPW	'NORTHEASTERN STATION 138KV'	405	-0.00243	-0.38926	74
AEPW	'ARSENAL HILL 69KV'	99	-0.39169	AEPW	'NORTHEASTERN STATION 138KV'	95	-0.00243	-0.38926	74
AEPW	'ARSENAL HILL 69KV'	99	-0.39169	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00243	-0.38926	74
AEPW	'ARSENAL HILL 69KV'	99	-0.39169	AEPW	'OEC 345KV'	156	-0.00256	-0.38913	74
AEPW	'ARSENAL HILL 69KV'	99	-0.39169	AEPW	'RIVERSIDE STATION 138KV'	519	-0.00268	-0.38901	74
AEPW	'ARSENAL HILL 69KV'	99	-0.39169	AEPW	'TULSA POWER STATION 138KV'	75	-0.00265	-0.38904	74
AEPW	'ARSENAL HILL 69KV'	99	-0.39169	AEPW	'TULSA POWER STATION 138KV'	77	-0.00265	-0.38904	74
AEPW	'ARSENAL HILL 69KV'	99	-0.39169	AEPW	'WILKES 345KV'	311	-0.00146	-0.39023	74
AEPW	'ARSENAL HILL 69KV'	99	-0.39169	AEPW	'COMANCHE 138KV'	160	-0.00392	-0.38777	75
AEPW	'ARSENAL HILL 69KV'	99	-0.39169	AEPW	'COMANCHE 69KV'	63	-0.00394	-0.38775	75
AEPW	'ARSENAL HILL 69KV'	99	-0.39169	AEPW	'FULTON 115KV'	33	-0.00697	-0.38472	75
AEPW	'ARSENAL HILL 69KV'	99	-0.39169	AEPW	'SOUTHWESTERN STATION 138KV'	168	-0.00389	-0.3878	75
AEPW	'ARSENAL HILL 69KV'	99	-0.39169	AEPW	'SOUTHWESTERN STATION 138KV'	257	-0.00389	-0.3878	75
AEPW	'ARSENAL HILL 69KV'	99	-0.39169	AEPW	'WEATHERFORD 34KV'	148	-0.00365	-0.38804	75
AEPW	'ARSENAL HILL 69KV'	99	-0.39169	AEPW	'WELEETKA 138KV'	128	-0.00347	-0.38822	75
AEPW	'ARSENAL HILL 69KV'	99	-0.39169	AEPW	'WELSH 345KV'	1044	-0.00872	-0.38297	76
AEPW	'ARSENAL HILL 69KV'	99	-0.39169	AEPW	'WILKES 138KV'	290	-0.00358	-0.36111	80
AEPW	'ARSENAL HILL 69KV'	99	-0.39169	AEPW	'LEBROCK 345KV'	215	-0.04681	-0.34488	84
AEPW	'ARSENAL HILL 69KV'	99	-0.39169	AEPW	'PIRKEY GENERATION 138KV'	253	-0.07079	-0.3209	90
AEPW	'ARSENAL HILL 69KV'	99	-0.39169	AEPW	'EASTMAN 138KV'	155	-0.089	-0.30269	96
AEPW	'ARSENAL HILL 69KV'	99	-0.39169	AEPW	'KNOXLEE 138KV'	216	-0.10914	-0.28255	102
AEPW	'LIEBERMAN 138KV'	154	-0.2244	AEPW	'FITZHUGH 161KV'	126	-0.00085	-0.22355	129
AEPW	'LIEBERMAN 138KV'	154	-0.2244	AEPW	'COGENTRIX 345KV'	665	-0.00267	-0.22173	130
AEPW	'LIEBERMAN 138KV'	154	-0.2244	AEPW	'FLINT CREEK 161KV'	428	-0.00211	-0.22229	130
AEPW	'LIEBERMAN 138KV'	154	-0.2244	AEPW	'NORTHEASTERN STATION 138KV'	405	-0.00243	-0.22197	130
AEPW	'LIEBERMAN 138KV'	154	-0.2244	AEPW	'NORTHEASTERN STATION 138KV'	95	-0.00243	-0.22197	130
AEPW	'LIEBERMAN 138KV'	154	-0.2244	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00243	-0.22197	130
AEPW	'LIEBERMAN 138KV'	154	-0.2244	AEPW	'OEC 345KV'	156	-0.00256	-0.22184	130
AEPW	'LIEBERMAN 138KV'	154	-0.2244	AEPW	'RIVERSIDE STATION 138KV'	519	-0.00268	-0.22172	130
AEPW	'LIEBERMAN 138KV'	154	-0.2244	AEPW	'TULSA POWER STATION 138KV'	75	-0.00265	-0.22175	130
AEPW	'LIEBERMAN 138KV'	154	-0.2244	AEPW	'TULSA POWER STATION 138KV'	77	-0.00265	-0.22175	130
AEPW	'LIEBERMAN 138KV'	154	-0.2244	AEPW	'WILKES 345KV'	311	-0.00146	-0.22294	130
AEPW	'LIEBERMAN 138KV'	154	-0.2244	AEPW	'COMANCHE 138KV'	160	-0.00392	-0.22048	131



Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

AEPW	'LIEBERMAN 138KV'	154	-0.2244	AEPW	'COMANCHE 69KV'	63	-0.00394	-0.22046	131
AEPW	'LIEBERMAN 138KV'	154	-0.2244	AEPW	'SOUTHWESTERN STATION 138KV'	168	-0.00389	-0.22051	131
AEPW	'LIEBERMAN 138KV'	154	-0.2244	AEPW	'SOUTHWESTERN STATION 138KV'	257	-0.00389	-0.22051	131
AEPW	'LIEBERMAN 138KV'	154	-0.2244	AEPW	'WEATHERFORD 34KV'	148	-0.00365	-0.22075	131
AEPW	'LIEBERMAN 138KV'	154	-0.2244	AEPW	'WELSH 138KV'	128	-0.00347	-0.22093	131
AEPW	'LIEBERMAN 138KV'	154	-0.2244	AEPW	'WELSH 345KV'	1044	-0.00872	-0.21568	134
AEPW	'LIEBERMAN 138KV'	154	-0.2244	AEPW	'WILKES 138KV'	290	-0.03058	-0.19382	149
AEPW	'LIEBERMAN 138KV'	154	-0.2244	AEPW	'LEBROCK 345KV'	215	-0.04681	-0.17759	163
AEPW	'ARSENAL HILL 69KV'	99	-0.39169	AEPW	'LIEBERMAN 138KV'	74	-0.2244	-0.16729	173
AEPW	'LIEBERMAN 138KV'	154	-0.2244	AEPW	'PIRKEY GENERATION 138KV'	253	-0.07079	-0.15361	188
AEPW	'LIEBERMAN 138KV'	154	-0.2244	AEPW	'EASTMAN 138KV'	155	-0.089	-0.1354	214
AEPW	'LIEBERMAN 138KV'	154	-0.2244	AEPW	'KNOXLEE 138KV'	216	-0.10914	-0.11526	251
AEPW	'KNOXLEE 138KV'	147	-0.10914	AEPW	'FITZHUGH 161KV'	126	-0.00085	-0.10829	267
AEPW	'KNOXLEE 138KV'	147	-0.10914	AEPW	'WILKES 345KV'	311	-0.00146	-0.10768	269
AEPW	'KNOXLEE 138KV'	147	-0.10914	AEPW	'FLINT CREEK 161KV'	428	-0.00211	-0.10703	270
AEPW	'KNOXLEE 138KV'	147	-0.10914	AEPW	'NORTHEASTERN STATION 138KV'	405	-0.00243	-0.10671	271
AEPW	'KNOXLEE 138KV'	147	-0.10914	AEPW	'NORTHEASTERN STATION 138KV'	95	-0.00243	-0.10671	271
AEPW	'KNOXLEE 138KV'	147	-0.10914	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00243	-0.10671	271
AEPW	'KNOXLEE 138KV'	147	-0.10914	AEPW	'OEC 345KV'	156	-0.00256	-0.10658	271
AEPW	'KNOXLEE 138KV'	147	-0.10914	AEPW	'COGENTRIX 345KV'	665	-0.00267	-0.10647	272
AEPW	'KNOXLEE 138KV'	147	-0.10914	AEPW	'RIVERSIDE STATION 138KV'	519	-0.00268	-0.10646	272
AEPW	'KNOXLEE 138KV'	147	-0.10914	AEPW	'WEATHERFORD 34KV'	148	-0.00365	-0.10549	274
AEPW	'KNOXLEE 138KV'	147	-0.10914	AEPW	'WELSH 138KV'	128	-0.00347	-0.10567	274
AEPW	'KNOXLEE 138KV'	147	-0.10914	AEPW	'COMANCHE 138KV'	160	-0.00392	-0.10522	275
AEPW	'KNOXLEE 138KV'	147	-0.10914	AEPW	'SOUTHWESTERN STATION 138KV'	168	-0.00389	-0.10525	275
AEPW	'KNOXLEE 138KV'	147	-0.10914	AEPW	'SOUTHWESTERN STATION 138KV'	257	-0.00389	-0.10525	275
AEPW	'KNOXLEE 138KV'	147	-0.10914	AEPW	'WELSH 345KV'	1044	-0.00872	-0.10042	288
CELE	'ACADIA 138KV'	1122	-0.00235	CELE	'DOLET HILLS 345KV'	370	0.08609	-0.08844	327
AEPW	'EASTMAN 138KV'	330	-0.089	AEPW	'FITZHUGH 161KV'	126	-0.00085	-0.08815	328
CELE	'EVANGELINE 138KV'	287	-0.00179	CELE	'DOLET HILLS 345KV'	370	0.08609	-0.08788	329
AEPW	'EASTMAN 138KV'	330	-0.089	AEPW	'WILKES 345KV'	311	-0.00146	-0.08754	330
CELE	'EVANGELINE 230KV'	401	-0.00162	CELE	'DOLET HILLS 345KV'	370	0.08609	-0.08771	330
CELE	'D.G. HUNTER POWER STATION 138KV'	156	-0.00121	CELE	'DOLET HILLS 345KV'	370	0.08609	-0.08733	331
CELE	'RODEMACHER 230KV'	120	-0.00107	CELE	'DOLET HILLS 345KV'	370	0.08609	-0.08716	332
AEPW	'EASTMAN 138KV'	330	-0.089	AEPW	'FLINT CREEK 161KV'	428	-0.00211	-0.08689	333
AEPW	'EASTMAN 138KV'	330	-0.089	AEPW	'NORTHEASTERN STATION 138KV'	405	-0.00243	-0.08657	334
AEPW	'EASTMAN 138KV'	330	-0.089	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00243	-0.08657	334
AEPW	'EASTMAN 138KV'	330	-0.089	AEPW	'COGENTRIX 345KV'	665	-0.00267	-0.08633	335
AEPW	'EASTMAN 138KV'	330	-0.089	AEPW	'OEC 345KV'	156	-0.00256	-0.08644	335
AEPW	'EASTMAN 138KV'	330	-0.089	AEPW	'RIVERSIDE STATION 138KV'	519	-0.00268	-0.08632	335
AEPW	'EASTMAN 138KV'	330	-0.089	AEPW	'WELSH 138KV'	128	-0.00347	-0.08553	338
AEPW	'EASTMAN 138KV'	330	-0.089	AEPW	'WEATHERFORD 34KV'	148	-0.00365	-0.08535	339
AEPW	'EASTMAN 138KV'	330	-0.089	AEPW	'COMANCHE 138KV'	160	-0.00392	-0.08508	340
AEPW	'EASTMAN 138KV'	330	-0.089	AEPW	'SOUTHWESTERN STATION 138KV'	168	-0.00389	-0.08511	340
AEPW	'EASTMAN 138KV'	330	-0.089	AEPW	'SOUTHWESTERN STATION 138KV'	257	-0.00389	-0.08511	340
AEPW	'EASTMAN 138KV'	330	-0.089	AEPW	'WELSH 345KV'	1044	-0.00872	-0.08028	360
AEPW	'KNOXLEE 138KV'	147	-0.10914	AEPW	'WILKES 138KV'	290	-0.03058	-0.07856	368
AEPW	'EASTMAN 138KV'	330	-0.089	AEPW	'WILKES 138KV'	290	-0.03058	-0.05842	495
AEPW	'LEBROCK 345KV'	482	-0.04681	AEPW	'WILKES 345KV'	311	-0.00146	-0.04535	638
AEPW	'LEBROCK 345KV'	482	-0.04681	AEPW	'FLINT CREEK 161KV'	428	-0.00211	-0.0447	647
AEPW	'LEBROCK 345KV'	482	-0.04681	AEPW	'NORTHEASTERN STATION 138KV'	405	-0.00243	-0.04438	652
AEPW	'LEBROCK 345KV'	482	-0.04681	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00243	-0.04438	652
AEPW	'LEBROCK 345KV'	482	-0.04681	AEPW	'COGENTRIX 345KV'	665	-0.00267	-0.04414	655
AEPW	'LEBROCK 345KV'	482	-0.04681	AEPW	'RIVERSIDE STATION 138KV'	519	-0.00268	-0.04413	655
AEPW	'TENASKA GATEWAY 345KV'	937	-0.04474	AEPW	'WILKES 345KV'	311	-0.00146	-0.04328	668
AEPW	'LEBROCK 345KV'	482	-0.04681	AEPW	'SOUTHWESTERN STATION 138KV'	257	-0.00389	-0.04292	674
AEPW	'TENASKA GATEWAY 345KV'	937	-0.04474	AEPW	'FLINT CREEK 161KV'	428	-0.00211	-0.04263	678
AEPW	'TENASKA GATEWAY 345KV'	937	-0.04474	AEPW	'NORTHEASTERN STATION 138KV'	405	-0.00243	-0.04231	684
AEPW	'TENASKA GATEWAY 345KV'	937	-0.04474	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00243	-0.04231	684
AEPW	'TENASKA GATEWAY 345KV'	937	-0.04474	AEPW	'COGENTRIX 345KV'	665	-0.00267	-0.04207	688
AEPW	'TENASKA GATEWAY 345KV'	937	-0.04474	AEPW	'RIVERSIDE STATION 138KV'	519	-0.00268	-0.04206	688
AEPW	'TENASKA GATEWAY 345KV'	937	-0.04474	AEPW	'SOUTHWESTERN STATION 138KV'	257	-0.00389	-0.04085	708
AEPW	'LEBROCK 345KV'	482	-0.04681	AEPW	'WELSH 345KV'	1044	-0.00872	-0.03809	759
AEPW	'TENASKA GATEWAY 345KV'	937	-0.04474	AEPW	'WELSH 345KV'	1044	-0.00872	-0.03602	803

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: SW SHREVEPORT EXPANSION  
 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: SWSHV22742SWSSHV1741211SP  
 Date Redispatch Needed: 6/1 - 10/1 Until EOC of Upgrade Starting 2009  
 Season Flowgate Identified: 2011 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount
1085305	4.9	17
1086235	1.2	17
1086238	0.2	17
1087745	3.7	17
1087757	2.6	17
1090812	4.0	17

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
AEPW	'ARSENAL HILL 69KV'	99	-0.38463	AEPW	'COGENTRIX 345KV'	665	-0.00262	-0.38201	44
AEPW	'ARSENAL HILL 69KV'	99	-0.38463	AEPW	'COMANCHE 138KV'	160	-0.00385	-0.38078	44
AEPW	'ARSENAL HILL 69KV'	99	-0.38463	AEPW	'COMANCHE 69KV'	63	-0.00387	-0.38076	44
AEPW	'ARSENAL HILL 69KV'	99	-0.38463	AEPW	'FITZHUGH 161KV'	126	-0.00084	-0.38379	44
AEPW	'ARSENAL HILL 69KV'	99	-0.38463	AEPW	'FLINT CREEK 161KV'	428	-0.00208	-0.38255	44
AEPW	'ARSENAL HILL 69KV'	99	-0.38463	AEPW	'FULTON 115KV'	33	-0.00685	-0.37778	44
AEPW	'ARSENAL HILL 69KV'	99	-0.38463	AEPW	'NORTHEASTERN STATION 138KV'	405	-0.00239	-0.38224	44
AEPW	'ARSENAL HILL 69KV'	99	-0.38463	AEPW	'NORTHEASTERN STATION 138KV'	95	-0.00239	-0.38224	44

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

AEPW	'ARSENAL HILL 69KV'	99	-0.38463	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00239	-0.38224	44
AEPW	'ARSENAL HILL 69KV'	99	-0.38463	AEPW	'OEC 345KV'	156	-0.00252	-0.38211	44
AEPW	'ARSENAL HILL 69KV'	99	-0.38463	AEPW	'RIVERSIDE STATION 138KV'	519	-0.00264	-0.38199	44
AEPW	'ARSENAL HILL 69KV'	99	-0.38463	AEPW	'SOUTHWESTERN STATION 138KV'	168	-0.00382	-0.38081	44
AEPW	'ARSENAL HILL 69KV'	99	-0.38463	AEPW	'SOUTHWESTERN STATION 138KV'	257	-0.00382	-0.38081	44
AEPW	'ARSENAL HILL 69KV'	99	-0.38463	AEPW	'TULSA POWER STATION 138KV'	75	-0.0026	-0.38203	44
AEPW	'ARSENAL HILL 69KV'	99	-0.38463	AEPW	'TULSA POWER STATION 138KV'	77	-0.0026	-0.38203	44
AEPW	'ARSENAL HILL 69KV'	99	-0.38463	AEPW	'WEATHERFORD 34KV'	148	-0.00358	-0.38105	44
AEPW	'ARSENAL HILL 69KV'	99	-0.38463	AEPW	'WELEETKA 138KV'	128	-0.00341	-0.38122	44
AEPW	'ARSENAL HILL 69KV'	99	-0.38463	AEPW	'WILKES 345KV'	311	-0.00143	-0.3832	44
AEPW	'ARSENAL HILL 69KV'	99	-0.38463	AEPW	'NARROWS 69KV'	22	-0.01177	-0.37286	45
AEPW	'ARSENAL HILL 69KV'	99	-0.38463	AEPW	'WELSH 345KV'	1044	-0.00856	-0.37607	45
AEPW	'ARSENAL HILL 69KV'	99	-0.38463	AEPW	'WILKES 138KV'	290	-0.03003	-0.3546	47
AEPW	'ARSENAL HILL 69KV'	99	-0.38463	AEPW	'LEBROCK 345KV'	215	-0.04596	-0.33867	50
AEPW	'ARSENAL HILL 69KV'	99	-0.38463	AEPW	'PIRKEY GENERATION 138KV'	253	-0.06951	-0.31512	53
AEPW	'ARSENAL HILL 69KV'	99	-0.38463	AEPW	'EASTMAN 138KV'	155	-0.08739	-0.29724	56
AEPW	'ARSENAL HILL 69KV'	99	-0.38463	AEPW	'KNOXLEE 138KV'	216	-0.10717	-0.27746	60
AEPW	'LIEBERMAN 138KV'	154	-0.22036	AEPW	'FITZHUGH 161KV'	126	-0.00084	-0.21952	76
AEPW	'LIEBERMAN 138KV'	154	-0.22036	AEPW	'COGENTRIX 345KV'	665	-0.00262	-0.21774	77
AEPW	'LIEBERMAN 138KV'	154	-0.22036	AEPW	'FLINT CREEK 161KV'	428	-0.00208	-0.21828	77
AEPW	'LIEBERMAN 138KV'	154	-0.22036	AEPW	'NORTHEASTERN STATION 138KV'	405	-0.00239	-0.21797	77
AEPW	'LIEBERMAN 138KV'	154	-0.22036	AEPW	'NORTHEASTERN STATION 138KV'	95	-0.00239	-0.21797	77
AEPW	'LIEBERMAN 138KV'	154	-0.22036	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00239	-0.21797	77
AEPW	'LIEBERMAN 138KV'	154	-0.22036	AEPW	'OEC 345KV'	156	-0.00252	-0.21784	77
AEPW	'LIEBERMAN 138KV'	154	-0.22036	AEPW	'RIVERSIDE STATION 138KV'	519	-0.00264	-0.21772	77
AEPW	'LIEBERMAN 138KV'	154	-0.22036	AEPW	'TULSA POWER STATION 138KV'	75	-0.0026	-0.21776	77
AEPW	'LIEBERMAN 138KV'	154	-0.22036	AEPW	'TULSA POWER STATION 138KV'	77	-0.0026	-0.21776	77
AEPW	'LIEBERMAN 138KV'	154	-0.22036	AEPW	'WEATHERFORD 34KV'	148	-0.00358	-0.21678	77
AEPW	'LIEBERMAN 138KV'	154	-0.22036	AEPW	'WELEETKA 138KV'	128	-0.00341	-0.21695	77
AEPW	'LIEBERMAN 138KV'	154	-0.22036	AEPW	'WILKES 345KV'	311	-0.00143	-0.21893	77
AEPW	'LIEBERMAN 138KV'	154	-0.22036	AEPW	'COMANCHE 138KV'	160	-0.00385	-0.21651	78
AEPW	'LIEBERMAN 138KV'	154	-0.22036	AEPW	'COMANCHE 69KV'	63	-0.00387	-0.21649	78
AEPW	'LIEBERMAN 138KV'	154	-0.22036	AEPW	'SOUTHWESTERN STATION 138KV'	168	-0.00382	-0.21654	78
AEPW	'LIEBERMAN 138KV'	154	-0.22036	AEPW	'SOUTHWESTERN STATION 138KV'	257	-0.00382	-0.21654	78
AEPW	'LIEBERMAN 138KV'	154	-0.22036	AEPW	'FULTON 115KV'	33	-0.00885	-0.21351	79
AEPW	'LIEBERMAN 138KV'	154	-0.22036	AEPW	'WELSH 345KV'	1044	-0.00856	-0.2118	79
AEPW	'LIEBERMAN 138KV'	154	-0.22036	AEPW	'WILKES 138KV'	290	-0.03003	-0.19033	88
AEPW	'LIEBERMAN 138KV'	154	-0.22036	AEPW	'LEBROCK 345KV'	215	-0.04596	-0.1744	96
AEPW	'ARSENAL HILL 69KV'	99	-0.38463	AEPW	'LIEBERMAN 138KV'	74	-0.22036	-0.16427	102
AEPW	'LIEBERMAN 138KV'	154	-0.22036	AEPW	'PIRKEY GENERATION 138KV'	253	-0.06951	-0.15085	111
AEPW	'LIEBERMAN 138KV'	154	-0.22036	AEPW	'EASTMAN 138KV'	155	-0.08739	-0.13297	126
AEPW	'LIEBERMAN 138KV'	154	-0.22036	AEPW	'KNOXLEE 138KV'	216	-0.10717	-0.11319	148
AEPW	'KNOXLEE 138KV'	147	-0.10717	AEPW	'FITZHUGH 161KV'	126	-0.00084	-0.10633	158
AEPW	'KNOXLEE 138KV'	60	-0.10717	AEPW	'FITZHUGH 161KV'	126	-0.00084	-0.10633	158
AEPW	'KNOXLEE 138KV'	147	-0.10717	AEPW	'WILKES 345KV'	311	-0.00143	-0.10574	159
AEPW	'KNOXLEE 138KV'	60	-0.10717	AEPW	'WILKES 345KV'	311	-0.00143	-0.10574	159
AEPW	'KNOXLEE 138KV'	147	-0.10717	AEPW	'FLINT CREEK 161KV'	428	-0.00208	-0.10509	160
AEPW	'KNOXLEE 138KV'	60	-0.10717	AEPW	'FLINT CREEK 161KV'	428	-0.00208	-0.10509	160
AEPW	'KNOXLEE 138KV'	147	-0.10717	AEPW	'NORTHEASTERN STATION 138KV'	405	-0.00239	-0.10478	160
AEPW	'KNOXLEE 138KV'	147	-0.10717	AEPW	'NORTHEASTERN STATION 138KV'	95	-0.00239	-0.10478	160
AEPW	'KNOXLEE 138KV'	60	-0.10717	AEPW	'NORTHEASTERN STATION 138KV'	405	-0.00239	-0.10478	160
AEPW	'KNOXLEE 138KV'	60	-0.10717	AEPW	'NORTHEASTERN STATION 138KV'	95	-0.00239	-0.10478	160
AEPW	'KNOXLEE 138KV'	147	-0.10717	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00239	-0.10478	160
AEPW	'KNOXLEE 138KV'	60	-0.10717	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00239	-0.10478	160
AEPW	'KNOXLEE 138KV'	147	-0.10717	AEPW	'OEC 345KV'	156	-0.00252	-0.10465	160
AEPW	'KNOXLEE 138KV'	60	-0.10717	AEPW	'OEC 345KV'	156	-0.00252	-0.10465	160
AEPW	'KNOXLEE 138KV'	147	-0.10717	AEPW	'COGENTRIX 345KV'	665	-0.00262	-0.10455	161
AEPW	'KNOXLEE 138KV'	60	-0.10717	AEPW	'COGENTRIX 345KV'	665	-0.00262	-0.10455	161
AEPW	'KNOXLEE 138KV'	147	-0.10717	AEPW	'RIVERSIDE STATION 138KV'	519	-0.00264	-0.10453	161
AEPW	'KNOXLEE 138KV'	60	-0.10717	AEPW	'RIVERSIDE STATION 138KV'	519	-0.00264	-0.10453	161
AEPW	'KNOXLEE 138KV'	147	-0.10717	AEPW	'TULSA POWER STATION 138KV'	75	-0.0026	-0.10457	161
AEPW	'KNOXLEE 138KV'	147	-0.10717	AEPW	'TULSA POWER STATION 138KV'	77	-0.0026	-0.10457	161
AEPW	'KNOXLEE 138KV'	60	-0.10717	AEPW	'TULSA POWER STATION 138KV'	75	-0.0026	-0.10457	161
AEPW	'KNOXLEE 138KV'	60	-0.10717	AEPW	'TULSA POWER STATION 138KV'	77	-0.0026	-0.10457	161
AEPW	'KNOXLEE 138KV'	147	-0.10717	AEPW	'COMANCHE 138KV'	160	-0.00385	-0.10332	162
AEPW	'KNOXLEE 138KV'	60	-0.10717	AEPW	'COMANCHE 138KV'	160	-0.00385	-0.10332	162
AEPW	'KNOXLEE 138KV'	147	-0.10717	AEPW	'COMANCHE 69KV'	63	-0.00387	-0.1033	162
AEPW	'KNOXLEE 138KV'	60	-0.10717	AEPW	'COMANCHE 69KV'	63	-0.00387	-0.1033	162
AEPW	'KNOXLEE 138KV'	147	-0.10717	AEPW	'SOUTHWESTERN STATION 138KV'	168	-0.00382	-0.10335	162
AEPW	'KNOXLEE 138KV'	147	-0.10717	AEPW	'SOUTHWESTERN STATION 138KV'	257	-0.00382	-0.10335	162
AEPW	'KNOXLEE 138KV'	60	-0.10717	AEPW	'SOUTHWESTERN STATION 138KV'	168	-0.00382	-0.10335	162
AEPW	'KNOXLEE 138KV'	60	-0.10717	AEPW	'SOUTHWESTERN STATION 138KV'	257	-0.00382	-0.10335	162
AEPW	'KNOXLEE 138KV'	147	-0.10717	AEPW	'WEATHERFORD 34KV'	148	-0.00358	-0.10359	162
AEPW	'KNOXLEE 138KV'	60	-0.10717	AEPW	'WEATHERFORD 34KV'	148	-0.00358	-0.10359	162
AEPW	'KNOXLEE 138KV'	147	-0.10717	AEPW	'WELEETKA 138KV'	128	-0.00341	-0.10376	162
AEPW	'KNOXLEE 138KV'	60	-0.10717	AEPW	'WELEETKA 138KV'	128	-0.00341	-0.10376	162
AEPW	'KNOXLEE 138KV'	147	-0.10717	AEPW	'WELSH 345KV'	1044	-0.00856	-0.09861	170
AEPW	'KNOXLEE 138KV'	60	-0.10717	AEPW	'WELSH 345KV'	1044	-0.00856	-0.09861	170
CELE	'ACADIA 138KV'	1122	-0.0023	CELE	'DOLET HILLS 345KV'	370	0.08454	-0.08684	193
AEPW	'EASTMAN 138KV'	330	-0.08739	AEPW	'FITZHUGH 161KV'	126	-0.00084	-0.08655	194
CELE	'EVANGELINE 138KV'	287	-0.00176	CELE	'DOLET HILLS 345KV'	370	0.08454	-0.0863	194
CELE	'TECHE 138KV'	81	-0.00183	CELE	'DOLET HILLS 345KV'	370	0.08454	-0.08637	194
AEPW	'EASTMAN 138KV'	330	-0.08739	AEPW	'WILKES 345KV'	311	-0.00143	-0.08596	195
CELE	'EVANGELINE 230KV'	401	-0.00159	CELE	'DOLET HILLS 345KV'	370	0.08454	-0.08613	195
CELE	'D.G. HUNTER POWER STATION 138KV'	156	-0.00119	CELE	'DOLET HILLS 345KV'	370	0.08454	-0.08573	196
CELE	'RODEMACHER 230KV'	120	-0.00105	CELE	'DOLET HILLS 345KV'	370	0.08454	-0.08559	196
CELE	'RODEMACHER 230KV'	66	-0.00105	CELE	'DOLET HILLS 345KV'	370	0.08454	-0.08559	196
AEPW	'EASTMAN 138KV'	330	-0.08739	AEPW	'FLINT CREEK 161KV'	428	-0.00208	-0.08531	197
AEPW	'EASTMAN 138KV'	330	-0.08739	AEPW	'NORTHEASTERN STATION 138KV'	405	-0.00239	-0.085	197
AEPW	'EASTMAN 138KV'	330	-0.08739	AEPW	'NORTHEASTERN STATION 138KV'	95	-0.00239	-0.085	197
AEPW	'EASTMAN 138KV'	330	-0.08739	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00239	-0.085	197
AEPW	'EASTMAN 138KV'	330	-0.08739	AEPW	'COGENTRIX 345KV'	665	-0.00262	-0.08477	198

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

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

Upgrade: WEATHERFORD SOUTHEAST (WTH\_SE) 138/69/13.8KV TRANSFORMER CKT 1  
 Limiting Facility: WEATHERFORD SOUTHEAST (WTH\_SE) 138/69/13.8KV TRANSFORMER CKT 1  
 Direction: From->To  
 Line Outage: CLINTON NATURAL GAS TAP - WTH WF 4 138KV CKT 1  
 Flowgate: WTHWTH\_SE1421541975416912407SP  
 Date Redispatch Needed: 6/1/07 - 10/1/07  
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount								
1090270	0.2	1								
1090271	0.1	1								
1090767	0.2	1								
1090789	0.1	1								
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)	
AEPW	'ARSENAL HILL 69KV'	99	0.00036	AEPW	'WEATHERFORD 34KV'	148	0.23062	-0.23026	3	
AEPW	'COGENTRIX 345KV'	694	0.00161	AEPW	'WEATHERFORD 34KV'	148	0.23062	-0.22901	3	
AEPW	'EASTMAN 138KV'	130	0.00038	AEPW	'WEATHERFORD 34KV'	148	0.23062	-0.23024	3	
AEPW	'FLINT CREEK 161KV'	8	0.00098	AEPW	'WEATHERFORD 34KV'	148	0.23062	-0.22964	3	
AEPW	'FULTON 115KV'	153	0.00031	AEPW	'WEATHERFORD 34KV'	148	0.23062	-0.23031	3	
AEPW	'KIOWA 345KV'	1348	0.00098	AEPW	'WEATHERFORD 34KV'	148	0.23062	-0.22964	3	
AEPW	'KNOXLEE 138KV'	199	0.00037	AEPW	'WEATHERFORD 34KV'	148	0.23062	-0.23025	3	
AEPW	'KNOXLEE 138KV'	60	0.00037	AEPW	'WEATHERFORD 34KV'	148	0.23062	-0.23025	3	
AEPW	'LD13 69KV'	13	0.00083	AEPW	'WEATHERFORD 34KV'	148	0.23062	-0.22979	3	
AEPW	'LEBROCK 345KV'	182	0.00037	AEPW	'WEATHERFORD 34KV'	148	0.23062	-0.23025	3	
AEPW	'LIEBERMAN 138KV'	154	0.00036	AEPW	'WEATHERFORD 34KV'	148	0.23062	-0.23026	3	
AEPW	'LONESTAR POWER PLANT 69KV'	50	0.00038	AEPW	'WEATHERFORD 34KV'	148	0.23062	-0.23024	3	
AEPW	'MID-CONTINENT 138KV'	142	0.00118	AEPW	'WEATHERFORD 34KV'	148	0.23062	-0.22944	3	
AEPW	'NARROWS 69KV'	3	0.00033	AEPW	'WEATHERFORD 34KV'	148	0.23062	-0.23029	3	
AEPW	'NORTH MARSHALL 69KV'	5	0.00037	AEPW	'WEATHERFORD 34KV'	148	0.23062	-0.23025	3	
AEPW	'OEC 345KV'	1041	0.00142	AEPW	'WEATHERFORD 34KV'	148	0.23062	-0.2292	3	
AEPW	'PIRKEY GENERATION 138KV'	40	0.00037	AEPW	'WEATHERFORD 34KV'	148	0.23062	-0.23025	3	
AEPW	'RIVERSIDE STATION 138KV'	112	0.00156	AEPW	'WEATHERFORD 34KV'	148	0.23062	-0.22906	3	
AEPW	'RVRSIDEG13.8 138KV'	172	0.00156	AEPW	'WEATHERFORD 34KV'	148	0.23062	-0.22906	3	
AEPW	'SOUTHWESTERN STATION 138KV'	166	-0.02002	AEPW	'WEATHERFORD 34KV'	148	0.23062	-0.25064	3	
AEPW	'SOUTHWESTERN STATION 138KV'	336	-0.02002	AEPW	'WEATHERFORD 34KV'	148	0.23062	-0.25064	3	
AEPW	'TENASKA GATEWAY 345KV'	937	0.00036	AEPW	'WEATHERFORD 34KV'	148	0.23062	-0.23026	3	
AEPW	'TULSA POWER STATION 138KV'	36	0.00155	AEPW	'WEATHERFORD 34KV'	148	0.23062	-0.22907	3	
AEPW	'TULSA POWER STATION 138KV'	72	0.00155	AEPW	'WEATHERFORD 34KV'	148	0.23062	-0.22907	3	
AEPW	'TULSA POWER STATION 69KV'	23	0.00155	AEPW	'WEATHERFORD 34KV'	148	0.23062	-0.22907	3	
AEPW	'TULSA POWER STATION 69KV'	24	0.00155	AEPW	'WEATHERFORD 34KV'	148	0.23062	-0.22907	3	
AEPW	'TULSA POWER STATION 69KV'	33	0.00155	AEPW	'WEATHERFORD 34KV'	148	0.23062	-0.22907	3	
AEPW	'WELEETKA 138KV'	72	0.00116	AEPW	'WEATHERFORD 34KV'	148	0.23062	-0.22946	3	
AEPW	'WELSH 345KV'	54	0.0004	AEPW	'WEATHERFORD 34KV'	148	0.23062	-0.23022	3	
AEPW	'WILKES 138KV'	159	0.00038	AEPW	'WEATHERFORD 34KV'	148	0.23062	-0.23024	3	

Maximum Decrement and Maximum Increment were determine 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: WICHITA - RENO 345KV  
 Limiting Facility: EXIDE JUNCTION - SUMMIT 115KV CKT 1  
 Direction: To->From  
 Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1  
 Flowgate: 57368573811568725687312207FA  
 Date Redispatch Needed: Starting 2007 10/1 - 12/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Fall Peak

Reservation	Relief Amount	Aggregate Relief Amount								
1086655	0.2	0								
1086656	0.1	0								
1089950	0.1	0								
1090662	0.1	0								
1090674	0.1	0								
1090823	0.1	0								
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)	
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16102	WERE	'SMOKEY HILLS 34KV'	25	0.06263	-0.22365	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28394	WERE	'CHANUTE 69KV'	56	0.00114	-0.28508	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28394	WERE	'CITY OF AUGUSTA 69KV'	20	0.00006	-0.284	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28394	WERE	'CITY OF BURLINGTON 69KV'	5	0.00225	-0.28619	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28394	WERE	'CITY OF ERIE 69KV'	4	0.00114	-0.28508	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28394	WERE	'CITY OF FREDONIA 69KV'	5	0.00086	-0.2848	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28394	WERE	'CITY OF GIRARD 69KV'	2	0.00122	-0.28516	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28394	WERE	'CITY OF IOLA 69KV'	24	0.00137	-0.28531	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28394	WERE	'CITY OF MULVANE 69KV'	5	-0.00092	-0.28302	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28394	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00158	-0.28236	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28394	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00225	-0.28619	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28394	WERE	'EVANS ENERGY CENTER 138KV'	131	-0.00008	-0.28386	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28394	WERE	'HOLTON 115KV'	8	0.00708	-0.29102	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28394	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01436	-0.2983	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28394	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02004	-0.30398	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28394	WERE	'LAWRENCE ENERGY CENTER 230KV'	233	0.00764	-0.29158	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28394	WERE	'SMOKEY HILLS 34KV'	25	0.06263	-0.34657	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28394	WERE	'SOUTH SENECA 115KV'	9	-0.00015	-0.28379	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28394	WERE	'TECUMSEH ENERGY CENTER 115KV'	88	0.00694	-0.29088	1	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28394	WERE	'WACO 138KV'	18	-0.00254	-0.2814	1	
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.22229	WERE	'CHANUTE 69KV'	56	0.00114	-0.22343	1	
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.22229	WERE	'CITY OF AUGUSTA 69KV'	20	0.00006	-0.22235	1	
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.22229	WERE	'CITY OF BURLINGTON 69KV'	5	0.00225	-0.22454	1	
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.22229	WERE	'CITY OF ERIE 69KV'	4	0.00114	-0.22343	1	

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.22229	WERE	'CITY OF FREDONIA 69KV'	5	0.00086	-0.22315	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.22229	WERE	'CITY OF GIRARD 69KV'	2	0.00122	-0.22351	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.22229	WERE	'CITY OF IOLA 69KV'	24	0.00137	-0.22366	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.22229	WERE	'CITY OF MULVANE 69KV'	5	-0.00092	-0.22137	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.22229	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00158	-0.22071	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.22229	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00225	-0.22454	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.22229	WERE	'EVANS ENERGY CENTER 138KV'	131	-0.00008	-0.22221	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.22229	WERE	'HOLTON 115KV'	8	0.00708	-0.22937	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.22229	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01436	-0.23665	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.22229	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02004	-0.24233	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.22229	WERE	'LAWRENCE ENERGY CENTER 230KV'	233	0.00764	-0.22993	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.22229	WERE	'SMOKEY HILLS 34KV'	25	0.06263	-0.28492	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.22229	WERE	'SOUTH SENECA 115KV'	9	-0.00015	-0.22214	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.22229	WERE	'TECUMSEH ENERGY CENTER 115KV'	88	0.00694	-0.22923	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.22229	WERE	'WACO 138KV'	18	-0.00254	-0.21975	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22218	WERE	'CHANUTE 69KV'	56	0.00114	-0.22332	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22218	WERE	'CITY OF AUGUSTA 69KV'	20	0.00006	-0.22224	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22218	WERE	'CITY OF BURLINGTON 69KV'	5	0.00225	-0.22443	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22218	WERE	'CITY OF ERIE 69KV'	4	0.00114	-0.22332	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22218	WERE	'CITY OF FREDONIA 69KV'	5	0.00086	-0.22304	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22218	WERE	'CITY OF GIRARD 69KV'	2	0.00122	-0.2234	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22218	WERE	'CITY OF IOLA 69KV'	24	0.00137	-0.22355	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22218	WERE	'CITY OF MULVANE 69KV'	5	-0.00092	-0.22126	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22218	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00158	-0.2206	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22218	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00225	-0.22443	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22218	WERE	'EVANS ENERGY CENTER 138KV'	131	-0.00008	-0.2221	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22218	WERE	'HOLTON 115KV'	8	0.00708	-0.22926	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22218	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01436	-0.23654	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22218	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02004	-0.24222	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22218	WERE	'LAWRENCE ENERGY CENTER 230KV'	233	0.00764	-0.22982	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22218	WERE	'SMOKEY HILLS 34KV'	25	0.06263	-0.28481	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22218	WERE	'SOUTH SENECA 115KV'	9	-0.00015	-0.22203	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22218	WERE	'TECUMSEH ENERGY CENTER 115KV'	88	0.00694	-0.22912	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22218	WERE	'WACO 138KV'	18	-0.00254	-0.21964	1
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16102	WERE	'CHANUTE 69KV'	56	0.00114	-0.16216	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16102	WERE	'CITY OF AUGUSTA 69KV'	20	0.00006	-0.16108	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16102	WERE	'CITY OF BURLINGTON 69KV'	5	0.00225	-0.16327	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16102	WERE	'CITY OF ERIE 69KV'	4	0.00114	-0.16216	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16102	WERE	'CITY OF FREDONIA 69KV'	5	0.00086	-0.16188	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16102	WERE	'CITY OF GIRARD 69KV'	2	0.00122	-0.16224	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16102	WERE	'CITY OF IOLA 69KV'	24	0.00137	-0.16239	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16102	WERE	'CITY OF MULVANE 69KV'	5	-0.00092	-0.1601	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16102	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00158	-0.15944	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16102	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00225	-0.16327	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16102	WERE	'EVANS ENERGY CENTER 138KV'	131	-0.00008	-0.16094	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16102	WERE	'HOLTON 115KV'	8	0.00708	-0.1681	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16102	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01436	-0.17538	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16102	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02004	-0.18106	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16102	WERE	'LAWRENCE ENERGY CENTER 230KV'	233	0.00764	-0.16866	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16102	WERE	'SOUTH SENECA 115KV'	9	-0.00015	-0.16087	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16102	WERE	'TECUMSEH ENERGY CENTER 115KV'	88	0.00694	-0.16796	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16102	WERE	'WACO 138KV'	18	-0.00254	-0.15848	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28394	WERE	'CLAY CENTER JUNCTION 115KV'	7	-0.10177	-0.18217	2
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10177	WERE	'SMOKEY HILLS 34KV'	25	0.06263	-0.1644	2
WERE	'ST JOHN 115KV'	8	-0.11372	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01436	-0.12808	2
WERE	'ST JOHN 115KV'	8	-0.11372	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02004	-0.13376	2
WERE	'ST JOHN 115KV'	8	-0.11372	WERE	'SMOKEY HILLS 34KV'	25	0.06263	-0.17635	2
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10177	WERE	'CHANUTE 69KV'	56	0.00114	-0.10291	3
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10177	WERE	'CITY OF AUGUSTA 69KV'	20	0.00006	-0.10183	3
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10177	WERE	'CITY OF BURLINGTON 69KV'	5	0.00225	-0.10402	3
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10177	WERE	'CITY OF ERIE 69KV'	4	0.00114	-0.10291	3
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10177	WERE	'CITY OF FREDONIA 69KV'	5	0.00086	-0.10263	3
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10177	WERE	'CITY OF GIRARD 69KV'	2	0.00122	-0.10299	3
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10177	WERE	'CITY OF IOLA 69KV'	24	0.00137	-0.10314	3
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10177	WERE	'CITY OF MULVANE 69KV'	5	-0.00092	-0.10085	3
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10177	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00158	-0.10019	3
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10177	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00225	-0.10402	3
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10177	WERE	'EVANS ENERGY CENTER 138KV'	131	-0.00008	-0.10169	3
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10177	WERE	'HOLTON 115KV'	8	0.00708	-0.10885	3
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10177	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01436	-0.11613	3
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10177	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02004	-0.12181	3
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10177	WERE	'LAWRENCE ENERGY CENTER 230KV'	233	0.00764	-0.10941	3
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10177	WERE	'SOUTH SENECA 115KV'	9	-0.00015	-0.10162	3
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10177	WERE	'TECUMSEH ENERGY CENTER 115KV'	88	0.00694	-0.10871	3
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10177	WERE	'WACO 138KV'	18	-0.00254	-0.09923	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.22229	WERE	'CLAY CENTER JUNCTION 115KV'	7	-0.10177	-0.12052	3

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: WICHITA - RENO 345KV  
 Limiting Facility: EXIDE JUNCTION - SUMMIT 115KV CKT 1  
 Direction: To->From  
 Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1  
 57368573811568725687312207SH  
 Date Redispatch Needed: 6/1 - 10/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Summer Shoulder

Reservation	Relief Amount	Aggregate Relief Amount
1086655	7.3	11
1086656	2.4	11
1090662	1.0	11
1090674	0.1	11
1090823	0.1	11

Table 5 - 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	Redispatch Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28393	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01438	-0.29831	36
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28393	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02006	-0.30399	36
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28393	WERE	'HOLTON 115KV'	16	0.00709	-0.29102	37
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28393	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00737	-0.2913	37
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28393	WERE	'LAWRENCE ENERGY CENTER 230KV'	237	0.00765	-0.29158	37
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28393	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.00696	-0.29089	37
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28393	WERE	'CHANUTE 69KV'	47	0.00115	-0.28508	38
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28393	WERE	'CITY OF AUGUSTA 69KV'	20	0.00007	-0.284	38
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28393	WERE	'CITY OF ERIE 69KV'	24	0.00115	-0.28508	38
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28393	WERE	'CITY OF IOLA 69KV'	20	0.00138	-0.28531	38
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28393	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00226	-0.28619	38
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28393	WERE	'EVANS ENERGY CENTER 138KV'	268	-0.00007	-0.28386	38
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28393	WERE	'SOUTH SENECA 115KV'	13	-0.00012	-0.28381	38
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28393	WERE	'CITY OF WELLINGTON 69KV'	36	-0.00157	-0.28236	39
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28393	WERE	'GILL ENERGY CENTER 138KV'	77	-0.0028	-0.28113	39
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28393	WERE	'WACO 138KV'	18	-0.00253	-0.2814	39
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.22228	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02006	-0.24234	45
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22217	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02006	-0.24223	45
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.22228	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01438	-0.23666	46
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22217	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01438	-0.23655	46
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.22228	WERE	'HOLTON 115KV'	16	0.00709	-0.22937	47
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.22228	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00737	-0.22965	47
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.22228	WERE	'LAWRENCE ENERGY CENTER 230KV'	237	0.00765	-0.22993	47
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.22228	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.00696	-0.22924	47
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22217	WERE	'HOLTON 115KV'	16	0.00709	-0.22926	47
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22217	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00737	-0.22954	47
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22217	WERE	'LAWRENCE ENERGY CENTER 230KV'	237	0.00765	-0.22982	47
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22217	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.00696	-0.22913	47
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.22228	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00226	-0.22454	48
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22217	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00226	-0.22443	48
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.22228	WERE	'CHANUTE 69KV'	47	0.00115	-0.22343	49
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.22228	WERE	'CITY OF AUGUSTA 69KV'	20	0.00007	-0.22235	49
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.22228	WERE	'CITY OF ERIE 69KV'	24	0.00115	-0.22343	49
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.22228	WERE	'CITY OF IOLA 69KV'	20	0.00138	-0.22366	49
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.22228	WERE	'CITY OF WELLINGTON 69KV'	36	-0.00157	-0.22071	49
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.22228	WERE	'EVANS ENERGY CENTER 138KV'	268	-0.00007	-0.22221	49
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22217	WERE	'CHANUTE 69KV'	47	0.00115	-0.22332	49
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22217	WERE	'CITY OF AUGUSTA 69KV'	20	0.00007	-0.22224	49
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22217	WERE	'CITY OF ERIE 69KV'	24	0.00115	-0.22332	49
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22217	WERE	'CITY OF IOLA 69KV'	20	0.00138	-0.22355	49
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22217	WERE	'CITY OF WELLINGTON 69KV'	36	-0.00157	-0.2206	49
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22217	WERE	'EVANS ENERGY CENTER 138KV'	268	-0.00007	-0.2221	49
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.22228	WERE	'GILL ENERGY CENTER 138KV'	77	-0.0028	-0.21948	50
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.22228	WERE	'WACO 138KV'	18	-0.00253	-0.21975	50
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22217	WERE	'GILL ENERGY CENTER 138KV'	77	-0.0028	-0.21937	50
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22217	WERE	'WACO 138KV'	18	-0.00253	-0.21964	50
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16101	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02006	-0.18107	60
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16101	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01438	-0.17539	62
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16101	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00737	-0.16838	65
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16101	WERE	'LAWRENCE ENERGY CENTER 230KV'	237	0.00765	-0.16866	65
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16101	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.00696	-0.16797	65
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16101	WERE	'CHANUTE 69KV'	47	0.00115	-0.16216	67
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16101	WERE	'CITY OF ERIE 69KV'	24	0.00115	-0.16216	67
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16101	WERE	'CITY OF WELLINGTON 69KV'	36	-0.00157	-0.15944	68
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16101	WERE	'EVANS ENERGY CENTER 138KV'	268	-0.00007	-0.16094	68
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16101	WERE	'GILL ENERGY CENTER 138KV'	77	-0.0028	-0.15821	69
MIDW	'PAWNEE 115KV'	999	-0.1137	MIDW	'KNOLL 3 115 115KV'	9999	-0.03104	-0.08266	132
MIDW	'RICE 115KV'	999	-0.1137	MIDW	'KNOLL 3 115 115KV'	9999	-0.03104	-0.08266	132
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28393	WERE	'HUTCHINSON ENERGY CENTER 115KV'	80	-0.22228	-0.06165	177

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: WICHITA - RENO 345KV  
 Limiting Facility: EXIDE JUNCTION - SUMMIT 115KV CKT 1  
 Direction: To->From  
 Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1  
 Flowgate: 57368573811568725687312207WP  
 Date Redispatch Needed: 12/1/07 - 4/1/08  
 Season Flowgate Identified: 2007 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount
1086655	0.2	0
1086656	0.1	0
1089950	0.1	0
1090662	0.1	0
1090674	0.1	0
1090823	0.1	0

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28391	WERE	'CHANUTE 69KV'	35	0.00116	-0.28507	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28391	WERE	'CITY OF AUGUSTA 69KV'	20	0.00008	-0.28399	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28391	WERE	'CITY OF BURLINGTON 69KV'	5	0.00227	-0.28618	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28391	WERE	'CITY OF ERIE 69KV'	4	0.00116	-0.28507	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28391	WERE	'CITY OF FREDONIA 69KV'	5	0.00088	-0.28479	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28391	WERE	'CITY OF GIRARD 69KV'	1	0.00124	-0.28515	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28391	WERE	'CITY OF IOLA 69KV'	15	0.00139	-0.2853	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28391	WERE	'CITY OF MULVANE 69KV'	4	-0.0009	-0.28301	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28391	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00156	-0.28235	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28391	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00227	-0.28618	1

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28391	WERE	'EVANS ENERGY CENTER 138KV'	54	-0.00006	-0.28385	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28391	WERE	'HOLTON 115KV'	8	0.0071	-0.29101	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28391	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01439	-0.2983	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28391	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02007	-0.30398	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28391	WERE	'LAWRENCE ENERGY CENTER 230KV'	133	0.00766	-0.29157	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28391	WERE	'SMOKEY HILLS 34KV'	25	0.06266	-0.34657	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28391	WERE	'SOUTH SENECA 115KV'	9	-0.00011	-0.2838	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28391	WERE	'WACO 138KV'	18	-0.00251	-0.2814	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22226	WERE	'SMOKEY HILLS 34KV'	25	0.06266	-0.28492	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22215	WERE	'SMOKEY HILLS 34KV'	25	0.06266	-0.28481	1
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.161	WERE	'CHANUTE 69KV'	35	0.00116	-0.16216	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.161	WERE	'CITY OF AUGUSTA 69KV'	20	0.00008	-0.16108	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.161	WERE	'CITY OF BURLINGTON 69KV'	5	0.00227	-0.16327	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.161	WERE	'CITY OF ERIE 69KV'	4	0.00116	-0.16216	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.161	WERE	'CITY OF FREDONIA 69KV'	5	0.00088	-0.16188	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.161	WERE	'CITY OF GIRARD 69KV'	1	0.00124	-0.16224	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.161	WERE	'CITY OF IOLA 69KV'	15	0.00139	-0.16239	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.161	WERE	'CITY OF MULVANE 69KV'	4	-0.0009	-0.1601	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.161	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00156	-0.15944	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.161	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00227	-0.16327	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.161	WERE	'EVANS ENERGY CENTER 138KV'	54	-0.00006	-0.16094	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.161	WERE	'HOLTON 115KV'	8	0.0071	-0.1681	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.161	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01439	-0.17539	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.161	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02007	-0.18107	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.161	WERE	'LAWRENCE ENERGY CENTER 230KV'	133	0.00766	-0.16866	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.161	WERE	'SMOKEY HILLS 34KV'	25	0.06266	-0.22366	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.161	WERE	'SOUTH SENECA 115KV'	9	-0.00011	-0.16089	2
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.161	WERE	'WACO 138KV'	18	-0.00251	-0.15849	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28391	WERE	'CLAY CENTER JUNCTION 115KV'	7	-0.10175	-0.18216	2
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10175	WERE	'SMOKEY HILLS 34KV'	25	0.06266	-0.16441	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22226	WERE	'CHANUTE 69KV'	35	0.00116	-0.22342	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22226	WERE	'CITY OF AUGUSTA 69KV'	20	0.00008	-0.22234	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22226	WERE	'CITY OF BURLINGTON 69KV'	5	0.00227	-0.22453	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22226	WERE	'CITY OF ERIE 69KV'	4	0.00116	-0.22342	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22226	WERE	'CITY OF FREDONIA 69KV'	5	0.00088	-0.22314	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22226	WERE	'CITY OF GIRARD 69KV'	1	0.00124	-0.2235	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22226	WERE	'CITY OF IOLA 69KV'	15	0.00139	-0.22365	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22226	WERE	'CITY OF MULVANE 69KV'	4	-0.0009	-0.22136	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22226	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00156	-0.2207	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22226	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00227	-0.22453	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22226	WERE	'EVANS ENERGY CENTER 138KV'	54	-0.00006	-0.2222	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22226	WERE	'HOLTON 115KV'	8	0.0071	-0.22936	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22226	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01439	-0.23665	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22226	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02007	-0.24233	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22226	WERE	'LAWRENCE ENERGY CENTER 230KV'	133	0.00766	-0.22992	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22226	WERE	'SOUTH SENECA 115KV'	9	-0.00011	-0.22215	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22226	WERE	'WACO 138KV'	18	-0.00251	-0.21975	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22215	WERE	'CHANUTE 69KV'	35	0.00116	-0.22331	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22215	WERE	'CITY OF AUGUSTA 69KV'	20	0.00008	-0.22223	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22215	WERE	'CITY OF BURLINGTON 69KV'	5	0.00227	-0.22442	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22215	WERE	'CITY OF ERIE 69KV'	4	0.00116	-0.22331	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22215	WERE	'CITY OF FREDONIA 69KV'	5	0.00088	-0.22303	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22215	WERE	'CITY OF GIRARD 69KV'	1	0.00124	-0.22339	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22215	WERE	'CITY OF IOLA 69KV'	15	0.00139	-0.22354	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22215	WERE	'CITY OF MULVANE 69KV'	4	-0.0009	-0.22125	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22215	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00156	-0.22059	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22215	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00227	-0.22442	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22215	WERE	'EVANS ENERGY CENTER 138KV'	54	-0.00006	-0.22209	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22215	WERE	'HOLTON 115KV'	8	0.0071	-0.22925	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22215	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01439	-0.23654	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22215	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02007	-0.24222	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22215	WERE	'LAWRENCE ENERGY CENTER 230KV'	133	0.00766	-0.22981	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22215	WERE	'SOUTH SENECA 115KV'	9	-0.00011	-0.22204	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22215	WERE	'WACO 138KV'	18	-0.00251	-0.21964	2
WERE	'ST JOHN 115KV'	8	-0.11369	WERE	'SMOKEY HILLS 34KV'	25	0.06266	-0.17635	2
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10175	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01439	-0.11614	3
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10175	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02007	-0.12182	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22226	WERE	'CLAY CENTER JUNCTION 115KV'	7	-0.10175	-0.12051	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22215	WERE	'CLAY CENTER JUNCTION 115KV'	7	-0.10175	-0.1204	3
WERE	'ST JOHN 115KV'	8	-0.11369	WERE	'CHANUTE 69KV'	35	0.00116	-0.11485	3
WERE	'ST JOHN 115KV'	8	-0.11369	WERE	'CITY OF AUGUSTA 69KV'	20	0.00008	-0.11377	3
WERE	'ST JOHN 115KV'	8	-0.11369	WERE	'CITY OF BURLINGTON 69KV'	5	0.00227	-0.11596	3
WERE	'ST JOHN 115KV'	8	-0.11369	WERE	'CITY OF ERIE 69KV'	4	0.00116	-0.11485	3
WERE	'ST JOHN 115KV'	8	-0.11369	WERE	'CITY OF FREDONIA 69KV'	5	0.00088	-0.11457	3
WERE	'ST JOHN 115KV'	8	-0.11369	WERE	'CITY OF GIRARD 69KV'	1	0.00124	-0.11493	3
WERE	'ST JOHN 115KV'	8	-0.11369	WERE	'CITY OF IOLA 69KV'	15	0.00139	-0.11508	3
WERE	'ST JOHN 115KV'	8	-0.11369	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00227	-0.11596	3
WERE	'ST JOHN 115KV'	8	-0.11369	WERE	'EVANS ENERGY CENTER 138KV'	54	-0.00006	-0.11363	3
WERE	'ST JOHN 115KV'	8	-0.11369	WERE	'HOLTON 115KV'	8	0.0071	-0.12079	3
WERE	'ST JOHN 115KV'	8	-0.11369	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01439	-0.12808	3
WERE	'ST JOHN 115KV'	8	-0.11369	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02007	-0.13376	3
WERE	'ST JOHN 115KV'	8	-0.11369	WERE	'LAWRENCE ENERGY CENTER 230KV'	133	0.00766	-0.12135	3
WERE	'ST JOHN 115KV'	8	-0.11369	WERE	'SOUTH SENECA 115KV'	9	-0.00011	-0.11358	3
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10175	WERE	'CHANUTE 69KV'	35	0.00116	-0.10291	4
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10175	WERE	'CITY OF AUGUSTA 69KV'	20	0.00008	-0.10183	4
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10175	WERE	'CITY OF BURLINGTON 69KV'	5	0.00227	-0.10402	4
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10175	WERE	'CITY OF ERIE 69KV'	4	0.00116	-0.10291	4
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10175	WERE	'CITY OF FREDONIA 69KV'	5	0.00088	-0.10263	4
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10175	WERE	'CITY OF GIRARD 69KV'	1	0.00124	-0.10299	4
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10175	WERE	'CITY OF IOLA 69KV'	15	0.00139	-0.10314	4

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: WICHITA - RENO 345KV

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Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

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
1086655	0.9	5
1086656	0.3	5
1089950	0.2	5
1090325	0.2	5
1090327	0.1	5
1090662	0.1	5
1090674	0.1	5
1090747	0.1	5
1090748	0.1	5
1090756	0.1	5
1090757	0.1	5
1090816	0.1	5
1090817	0.1	5
1090823	0.1	5
1090826	0.1	5
1090827	0.1	5
1090828	0.1	5
1090829	0.1	5
1090839	0.1	5
1090841	0.1	5
1090844	0.1	5
1090845	0.1	5
1090852	0.1	5
1090853	0.1	5
1090920	0.1	5
1090922	0.9	5
1090923	0.2	5
1090929	0.1	5
1090930	0.1	5
1090931	0.1	5
1090932	0.1	5
1090934	0.1	5
1090935	0.1	5
1090964	0.1	5
1090965	0.1	5
1091028	0.2	5
1091036	0.1	5
1091045	0.1	5
1091052	0.1	5
1091053	0.1	5
1091055	0.1	5
1091057	0.1	5

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28384	WERE	'SMOKEY HILLS 34KV'	25	0.06272	-0.34656	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28384	WERE	'SMOKEYHIL 230 230KV'	72	0.06272	-0.34656	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28384	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02009	-0.30393	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28384	WERE	'CHANUTE 69KV'	35	0.00117	-0.28501	16
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28384	WERE	'CITY OF AUGUSTA 69KV'	20	0.00006	-0.2839	16
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28384	WERE	'CITY OF FREDONIA 69KV'	7	0.00087	-0.28471	16
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28384	WERE	'CITY OF IOLA 69KV'	20	0.00142	-0.28526	16
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28384	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00158	-0.28226	16
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28384	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00224	-0.28608	16
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28384	WERE	'EVANS ENERGY CENTER 138KV'	55	-0.00008	-0.28376	16
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28384	WERE	'HOLTON 115KV'	8	0.00712	-0.29096	16
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28384	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0144	-0.29824	16
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28384	WERE	'LAWRENCE ENERGY CENTER 230KV'	174	0.00768	-0.29152	16
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28384	WERE	'SOUTH SENECA 115KV'	9	-0.00012	-0.28372	16
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22219	WERE	'SMOKEY HILLS 34KV'	25	0.06272	-0.28491	16
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22219	WERE	'SMOKEYHIL 230 230KV'	72	0.06272	-0.28491	16
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22196	WERE	'SMOKEY HILLS 34KV'	25	0.06272	-0.28468	16
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22196	WERE	'SMOKEYHIL 230 230KV'	72	0.06272	-0.28468	16
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28384	WERE	'WACO 138KV'	17	-0.00254	-0.2813	17
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22219	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02009	-0.24228	19
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22196	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02009	-0.24205	19
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22219	WERE	'HOLTON 115KV'	8	0.00712	-0.22931	20
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22219	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0144	-0.23659	20
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22219	WERE	'LAWRENCE ENERGY CENTER 230KV'	174	0.00768	-0.22987	20
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22196	WERE	'HOLTON 115KV'	8	0.00712	-0.22908	20
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22196	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0144	-0.23636	20
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22196	WERE	'LAWRENCE ENERGY CENTER 230KV'	174	0.00768	-0.22964	20
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16097	WERE	'SMOKEY HILLS 34KV'	25	0.06272	-0.23269	21
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16097	WERE	'SMOKEYHIL 230 230KV'	72	0.06272	-0.22369	21
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22219	WERE	'CHANUTE 69KV'	35	0.00117	-0.22336	21
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22219	WERE	'CITY OF AUGUSTA 69KV'	20	0.00006	-0.22225	21
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22219	WERE	'CITY OF FREDONIA 69KV'	7	0.00087	-0.22306	21
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22219	WERE	'CITY OF IOLA 69KV'	20	0.00142	-0.22361	21
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22219	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00158	-0.22061	21
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22219	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00224	-0.22443	21
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22219	WERE	'EVANS ENERGY CENTER 138KV'	55	-0.00008	-0.22211	21
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22219	WERE	'SOUTH SENECA 115KV'	9	-0.00012	-0.22207	21
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.22219	WERE	'WACO 138KV'	17	-0.00254	-0.21965	21
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22196	WERE	'CHANUTE 69KV'	35	0.00117	-0.22313	21
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22196	WERE	'CITY OF AUGUSTA 69KV'	20	0.00006	-0.22202	21
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22196	WERE	'CITY OF FREDONIA 69KV'	7	0.00087	-0.22283	21
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22196	WERE	'CITY OF IOLA 69KV'	20	0.00142	-0.22338	21

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22196	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00158	-0.22038	21
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22196	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00224	-0.2242	21
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22196	WERE	'EVANS ENERGY CENTER 138KV'	55	-0.00008	-0.22188	21
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22196	WERE	'SOUTH SENECA 115KV'	9	-0.00012	-0.22184	21
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22196	WERE	'WACO 138KV'	17	-0.00254	-0.21942	21
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16097	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0144	-0.17537	26
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16097	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02009	-0.18106	26
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16097	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00224	-0.16321	28
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16097	WERE	'LAWRENCE ENERGY CENTER 230KV'	174	0.00768	-0.16865	28
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10172	WERE	'SMOKEY HILLS 34KV'	25	0.06272	-0.16444	28
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10172	WERE	'SMOKEYHIL 230 230KV'	72	0.06272	-0.16444	28
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16097	WERE	'CHANUTE 69KV'	35	0.00117	-0.16214	29
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16097	WERE	'CITY OF AUGUSTA 69KV'	20	0.00006	-0.16103	29
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16097	WERE	'CITY OF IOLA 69KV'	20	0.00142	-0.16239	29
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16097	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00158	-0.15939	29
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16097	WERE	'EVANS ENERGY CENTER 138KV'	55	-0.00008	-0.16089	29
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16097	WERE	'WACO 138KV'	17	-0.00254	-0.15843	29
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10172	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02009	-0.12181	38
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10172	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0144	-0.11612	40
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10172	WERE	'LAWRENCE ENERGY CENTER 230KV'	174	0.00768	-0.1094	42
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10172	WERE	'CHANUTE 69KV'	35	0.00117	-0.10289	45
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10172	WERE	'CITY OF IOLA 69KV'	20	0.00142	-0.10314	45
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10172	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00224	-0.10396	45
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10172	WERE	'CITY OF AUGUSTA 69KV'	20	0.00006	-0.10178	46
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10172	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00158	-0.10014	46
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10172	WERE	'EVANS ENERGY CENTER 138KV'	55	-0.00008	-0.10164	46
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10172	WERE	'WACO 138KV'	17	-0.00254	-0.09918	47
MIDW	'PAWNEE 115KV'	999	-0.11363	MIDW	'KNOLL 3 115 115KV'	9999	-0.03092	-0.08271	56
MIDW	'RICE 115KV'	999	-0.11363	MIDW	'KNOLL 3 115 115KV'	9999	-0.03092	-0.08271	56
WERE	'GILL ENERGY CENTER 138KV'	218	-0.00282	WERE	'SMOKEY HILLS 34KV'	25	0.06272	-0.06554	71
WERE	'GILL ENERGY CENTER 138KV'	218	-0.00282	WERE	'SMOKEYHIL 230 230KV'	72	0.06272	-0.06554	71
WERE	'GILL ENERGY CENTER 69KV'	118	-0.00211	WERE	'SMOKEY HILLS 34KV'	25	0.06272	-0.06483	72
WERE	'GILL ENERGY CENTER 69KV'	118	-0.00211	WERE	'SMOKEYHIL 230 230KV'	72	0.06272	-0.06483	72
WERE	'CITY OF WINFIELD 69KV'	40	-0.001	WERE	'SMOKEY HILLS 34KV'	25	0.06272	-0.06372	73
WERE	'CITY OF WINFIELD 69KV'	40	-0.001	WERE	'SMOKEYHIL 230 230KV'	72	0.06272	-0.06372	73
WERE	'EVANS ENERGY CENTER 138KV'	892	-0.00008	WERE	'SMOKEY HILLS 34KV'	25	0.06272	-0.0628	74
WERE	'EVANS ENERGY CENTER 138KV'	892	-0.00008	WERE	'SMOKEYHIL 230 230KV'	72	0.06272	-0.0628	74
WERE	'GETTY 69KV'	35	0.00025	WERE	'SMOKEY HILLS 34KV'	25	0.06272	-0.06247	74
WERE	'GETTY 69KV'	35	0.00025	WERE	'SMOKEYHIL 230 230KV'	72	0.06272	-0.06247	74
WERE	'CHANUTE 69KV'	53	0.00117	WERE	'SMOKEY HILLS 34KV'	25	0.06272	-0.06155	75
WERE	'CHANUTE 69KV'	53	0.00117	WERE	'SMOKEYHIL 230 230KV'	72	0.06272	-0.06155	75
WERE	'LATHAM1234.0 345KV'	150	0.00092	WERE	'SMOKEY HILLS 34KV'	25	0.06272	-0.0618	75
WERE	'LATHAM1234.0 345KV'	150	0.00092	WERE	'SMOKEYHIL 230 230KV'	72	0.06272	-0.0618	75
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.00113	WERE	'SMOKEY HILLS 34KV'	25	0.06272	-0.06159	75
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.00113	WERE	'SMOKEYHIL 230 230KV'	72	0.06272	-0.06159	75
WERE	'TECUMSEH ENERGY CENTER 115KV'	243	0.00698	WERE	'SMOKEYHIL 230 230KV'	72	0.06272	-0.05574	83
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	0.00691	WERE	'SMOKEYHIL 230 230KV'	72	0.06272	-0.05581	83
WERE	'LAWRENCE ENERGY CENTER 115KV'	178	0.0074	WERE	'SMOKEYHIL 230 230KV'	72	0.06272	-0.05532	84
WERE	'LAWRENCE ENERGY CENTER 230KV'	95	0.00768	WERE	'SMOKEYHIL 230 230KV'	72	0.06272	-0.05504	84
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.02009	WERE	'SMOKEYHIL 230 230KV'	72	0.06272	-0.04263	109
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.08837	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	-0.05602	-0.03235	144

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: WICHITA - RENO 345KV  
 Limiting Facility: EXIDE JUNCTION - SUMMIT 115KV CKT 1  
 Direction: To->From  
 Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1  
 Flowgate: 57368573811568725687312211WP  
 Date Redispatch Needed: 12/1 - 4/1 Until EOC of Upgrade Starting 2009  
 Season Flowgate Identified: 2011 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount
1086655	0.8	9
1086656	0.3	9
1089950	0.2	9
1090325	0.3	9
1090327	0.1	9
1090329	0.4	9
1090331	0.1	9
1090332	0.6	9
1090334	0.1	9
1090377	0.1	9
1090380	0.1	9
1090382	0.1	9
1090383	0.1	9
1090408	0.1	9
1090415	0.1	9
1090416	0.1	9
1090417	0.1	9
1090622	0.1	9
1090652	0.1	9
1090661	0.1	9
1090662	0.1	9
1090674	0.1	9
1090676	0.1	9
1090747	0.1	9
1090748	0.1	9
1090756	0.1	9
1090757	0.1	9
1090816	0.1	9
1090817	0.1	9
1090823	0.1	9



Table 5 - 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	Redispatch Amount (MW)
	1090826	0.2	9						
	1090827	0.2	9						
	1090828	0.1	9						
	1090829	0.1	9						
	1090839	0.2	9						
	1090841	0.2	9						
	1090844	0.1	9						
	1090845	0.1	9						
	1090847	0.1	9						
	1090852	0.1	9						
	1090853	0.1	9						
	1090854	0.1	9						
	1090917	0.1	9						
	1090919	0.1	9						
	1090920	0.2	9						
	1090921	0.1	9						
	1090922	0.4	9						
	1090923	0.1	9						
	1090929	0.6	9						
	1090930	0.1	9						
	1090931	0.7	9						
	1090932	0.2	9						
	1090934	0.3	9						
	1090935	0.1	9						
	1090964	0.2	9						
	1090965	0.1	9						
	1091028	0.1	9						
	1091045	0.1	9						
	1091052	0.1	9						
	1091053	0.1	9						
	1091055	0.2	9						
	1091057	0.1	9						
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28379	WERE	'SMOKEY HILLS 34KV'	25	0.06275	-0.34654	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28379	WERE	'SMOKEYHIL 230 230KV'	36	0.06275	-0.34654	25
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28379	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01439	-0.29818	29
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28379	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02008	-0.30387	29
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28379	WERE	'CHANUTE 69KV'	55	0.00117	-0.28496	30
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28379	WERE	'CITY OF IOLA 69KV'	16	0.00141	-0.2852	30
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28379	WERE	'LAWRENCE ENERGY CENTER 230KV'	171	0.00768	-0.29147	30
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28379	WERE	'TECUMSEH ENERGY CENTER 115KV'	27	0.00698	-0.29077	30
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28379	WERE	'CITY OF AUGUSTA 69KV'	20	0.00007	-0.28386	31
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28379	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00157	-0.28222	31
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28379	WERE	'EVANS ENERGY CENTER 138KV'	55	-0.00007	-0.28372	31
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28379	WERE	'WACO 138KV'	18	-0.00253	-0.28126	31
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.22213	WERE	'SMOKEY HILLS 34KV'	25	0.06275	-0.28488	31
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.22213	WERE	'SMOKEYHIL 230 230KV'	36	0.06275	-0.28488	31
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2219	WERE	'SMOKEY HILLS 34KV'	25	0.06275	-0.28465	31
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2219	WERE	'SMOKEYHIL 230 230KV'	36	0.06275	-0.28465	31
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.22213	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02008	-0.24221	36
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2219	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02008	-0.24198	36
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.22213	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01439	-0.23652	37
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2219	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01439	-0.23629	37
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.22213	WERE	'LAWRENCE ENERGY CENTER 230KV'	171	0.00768	-0.22981	38
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.22213	WERE	'TECUMSEH ENERGY CENTER 115KV'	27	0.00698	-0.22911	38
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2219	WERE	'LAWRENCE ENERGY CENTER 230KV'	171	0.00768	-0.22958	38
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2219	WERE	'TECUMSEH ENERGY CENTER 115KV'	27	0.00698	-0.22888	38
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16095	WERE	'SMOKEY HILLS 34KV'	25	0.06275	-0.2237	39
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16095	WERE	'SMOKEYHIL 230 230KV'	36	0.06275	-0.2237	39
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.22213	WERE	'CHANUTE 69KV'	55	0.00117	-0.2233	39
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.22213	WERE	'CITY OF AUGUSTA 69KV'	20	0.00007	-0.2222	39
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.22213	WERE	'CITY OF IOLA 69KV'	16	0.00141	-0.22354	39
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.22213	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00157	-0.22056	39
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.22213	WERE	'EVANS ENERGY CENTER 138KV'	55	-0.00007	-0.22206	39
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2219	WERE	'CHANUTE 69KV'	55	0.00117	-0.22307	39
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2219	WERE	'CITY OF AUGUSTA 69KV'	20	0.00007	-0.22197	39
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2219	WERE	'CITY OF IOLA 69KV'	16	0.00141	-0.22331	39
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2219	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00157	-0.22033	39
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2219	WERE	'EVANS ENERGY CENTER 138KV'	55	-0.00007	-0.22183	39
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.22213	WERE	'WACO 138KV'	18	-0.00253	-0.2196	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2219	WERE	'WACO 138KV'	18	-0.00253	-0.21937	40
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16095	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02008	-0.18103	48
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16095	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01439	-0.17534	50
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16095	WERE	'LAWRENCE ENERGY CENTER 230KV'	171	0.00768	-0.16863	52
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16095	WERE	'TECUMSEH ENERGY CENTER 115KV'	27	0.00698	-0.16793	52
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10172	WERE	'SMOKEY HILLS 34KV'	25	0.06275	-0.16447	53
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10172	WERE	'SMOKEYHIL 230 230KV'	36	0.06275	-0.16447	53
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16095	WERE	'CHANUTE 69KV'	55	0.00117	-0.16212	54
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16095	WERE	'CITY OF AUGUSTA 69KV'	20	0.00007	-0.16102	54
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16095	WERE	'EVANS ENERGY CENTER 138KV'	55	-0.00007	-0.16088	54
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16095	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00157	-0.15938	55
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10172	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02008	-0.1218	71
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10172	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01439	-0.11611	75
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10172	WERE	'LAWRENCE ENERGY CENTER 230KV'	171	0.00768	-0.1094	79
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10172	WERE	'TECUMSEH ENERGY CENTER 115KV'	27	0.00698	-0.1087	80
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10172	WERE	'CHANUTE 69KV'	55	0.00117	-0.10289	84
WERE	'CLAY CENTER JUNCTION 115KV'	31	-0.10172	WERE	'EVANS ENERGY CENTER 138KV'	55	-0.00007	-0.10165	86
MIDW	'PAWNEE 115KV'	999	-0.11355	MIDW	'KNOLL 3 115 115KV'	9999	-0.03084	-0.08271	105
MIDW	'RICE 115KV'	999	-0.11355	MIDW	'KNOLL 3 115 115KV'	9999	-0.03084	-0.08271	105

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

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

Upgrade: WICHITA - RENO 345KV  
 Limiting Facility: EXIDE JUNCTION - SUMMIT 115KV CKT 1  
 Direction: To->From  
 Line Outage: NORTHVIEW - SUMMIT 115KV CKT 1  
 Flowgate: 57368573811573715738112207SH  
 Date Redispatch Needed: 6/1 - 10/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Summer Shoulder

Reservation	Relief Amount	Aggregate Relief Amount
1086655	6.3	9
1086656	2.1	9
1090662	0.3	9
1090674	0.1	9
1090823	0.2	9
1090825	0.2	9

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.35559	WERE	'HOLTON 115KV'	16	0.00051	-0.3561	25
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.35559	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00219	-0.35778	25
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.35559	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01085	-0.36644	25
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.35559	WERE	'CHANUTE 69KV'	47	-0.00008	-0.35551	26
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.35559	WERE	'CITY OF AUGUSTA 69KV'	20	-0.00065	-0.35494	26
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.35559	WERE	'CITY OF ERIE 69KV'	24	-0.00008	-0.35551	26
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.35559	WERE	'CITY OF FREDONIA 69KV'	10	-0.00015	-0.35544	26
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.35559	WERE	'CITY OF IOLA 69KV'	20	-0.00002	-0.35557	26
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.35559	WERE	'CITY OF WELLINGTON 69KV'	36	-0.00099	-0.3546	26
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.35559	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	-0.00002	-0.35557	26
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.35559	WERE	'EVANS ENERGY CENTER 138KV'	268	-0.00074	-0.35485	26
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.35559	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00147	-0.35412	26
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.35559	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	-0.00132	-0.35427	26
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.35559	WERE	'LAWRENCE ENERGY CENTER 230KV'	237	-0.00157	-0.35402	26
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.35559	WERE	'SOUTH SENECA 115KV'	13	-0.00279	-0.3528	26
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.35559	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	-0.00495	-0.35064	26
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.35559	WERE	'WACO 138KV'	18	-0.0014	-0.35419	26
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.35559	WERE	'HUTCHINSON ENERGY CENTER 115KV'	80	-0.09475	-0.26084	35
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.23412	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01085	-0.24497	37
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.23412	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00219	-0.23631	38
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.23412	WERE	'CHANUTE 69KV'	47	-0.00008	-0.23404	39
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.23412	WERE	'CITY OF AUGUSTA 69KV'	20	-0.00065	-0.23347	39
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.23412	WERE	'CITY OF ERIE 69KV'	24	-0.00008	-0.23404	39
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.23412	WERE	'CITY OF IOLA 69KV'	20	-0.00002	-0.2341	39
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.23412	WERE	'CITY OF WELLINGTON 69KV'	36	-0.00099	-0.23313	39
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.23412	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	-0.00002	-0.2341	39
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.23412	WERE	'EVANS ENERGY CENTER 138KV'	268	-0.00074	-0.23338	39
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.23412	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00147	-0.23265	39
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.23412	WERE	'HOLTON 115KV'	16	0.00051	-0.23463	39
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.23412	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	-0.00132	-0.2328	39
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.23412	WERE	'LAWRENCE ENERGY CENTER 230KV'	237	-0.00157	-0.23255	39
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.23412	WERE	'WACO 138KV'	18	-0.0014	-0.23272	39
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.23412	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	-0.00495	-0.22917	40
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16271	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01085	-0.17356	52
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16271	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00219	-0.1649	55
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16271	WERE	'CHANUTE 69KV'	47	-0.00008	-0.16263	56
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16271	WERE	'CITY OF AUGUSTA 69KV'	20	-0.00065	-0.16206	56
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16271	WERE	'CITY OF ERIE 69KV'	24	-0.00008	-0.16263	56
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16271	WERE	'CITY OF IOLA 69KV'	20	-0.00002	-0.16269	56
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16271	WERE	'CITY OF WELLINGTON 69KV'	36	-0.00099	-0.16172	56
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16271	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	-0.00002	-0.16269	56
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16271	WERE	'EVANS ENERGY CENTER 138KV'	268	-0.00074	-0.16197	56
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16271	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00147	-0.16124	56
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16271	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	-0.00132	-0.16139	56
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16271	WERE	'LAWRENCE ENERGY CENTER 230KV'	237	-0.00157	-0.16114	56
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16271	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	-0.00495	-0.15776	58
WERE	'CLAY CENTER JUNCTION 115KV'	26	-0.23412	WERE	'HUTCHINSON ENERGY CENTER 115KV'	80	-0.09475	-0.13937	65
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.09475	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01085	-0.1056	86
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09469	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01085	-0.10554	86
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.09475	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00219	-0.09694	94
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09469	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00219	-0.09688	94
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.09475	WERE	'CHANUTE 69KV'	47	-0.00008	-0.09467	96
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.09475	WERE	'EVANS ENERGY CENTER 138KV'	268	-0.00074	-0.09401	96
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09469	WERE	'CHANUTE 69KV'	47	-0.00008	-0.09461	96
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.09475	WERE	'CITY OF WELLINGTON 69KV'	36	-0.00099	-0.09376	97
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.09475	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00147	-0.09328	97
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.09475	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	-0.00132	-0.09343	97
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.09475	WERE	'LAWRENCE ENERGY CENTER 230KV'	237	-0.00157	-0.09318	97
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09469	WERE	'CITY OF WELLINGTON 69KV'	36	-0.00099	-0.0937	97
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09469	WERE	'EVANS ENERGY CENTER 138KV'	268	-0.00074	-0.09395	97
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09469	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00147	-0.09322	97
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09469	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	-0.00132	-0.09337	97
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09469	WERE	'LAWRENCE ENERGY CENTER 230KV'	237	-0.00157	-0.09312	97
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.09475	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	-0.00495	-0.0898	101
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09469	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	-0.00495	-0.08974	101
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.16271	WERE	'HUTCHINSON ENERGY CENTER 115KV'	80	-0.09475	-0.06796	133
MIDW	'PAWNEE 115KV'	999	-0.03609	MIDW	'KNOLL 3 115 115KV'	9999	0.01714	-0.05323	170
MIDW	'RICE 115KV'	999	-0.03609	MIDW	'KNOLL 3 115 115KV'	9999	0.01714	-0.05323	170

Maximum Decrement and Maximum Increment were determine 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: WICHITA - RENO 345KV  
 Limiting Facility: EXIDE JUNCTION - SUMMIT 115KV CKT 1  
 Direction: To->From  
 Line Outage: NORTHVIEW - SUMMIT 115KV CKT 1

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

Flowgate: 57368573811573715738112211SP  
 Date Redispatch Needed: 6/1 - 10/1 Until EOC of Upgrade Starting 2009  
 Season Flowgate Identified: 2011 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	Redispatch Amount (MW)
1086655	0.5	3	WERE	'ABILENE ENERGY CENTER 115KV'	6	-0.3555	WERE	'SMOKEY HILLS 34KV'	25	0.0828	-0.4383	8
1086656	0.2	3	WERE	'ABILENE ENERGY CENTER 115KV'	6	-0.3555	WERE	'SMOKYHIL 230 230KV'	59	0.0828	-0.4383	8
1089950	0.1	3	WERE	'ABILENE ENERGY CENTER 115KV'	6	-0.3555	WERE	'BROWN COUNTY 115KV'	4	-0.0013	-0.3542	9
1090325	0.1	3	WERE	'ABILENE ENERGY CENTER 115KV'	6	-0.3555	WERE	'CHANUTE 69KV'	76	-0.00006	-0.35544	9
1090327	0.1	3	WERE	'ABILENE ENERGY CENTER 115KV'	6	-0.3555	WERE	'CITY OF AUGUSTA 69KV'	20	-0.00063	-0.35487	9
1090329	0.1	3	WERE	'ABILENE ENERGY CENTER 115KV'	6	-0.3555	WERE	'CITY OF BURLINGTON 69KV'	9	-0.00002	-0.35548	9
1090331	0.1	3	WERE	'ABILENE ENERGY CENTER 115KV'	6	-0.3555	WERE	'CITY OF ERIE 69KV'	24	-0.00006	-0.35544	9
1090332	0.1	3	WERE	'ABILENE ENERGY CENTER 115KV'	6	-0.3555	WERE	'CITY OF FREDONIA 69KV'	10	-0.00014	-0.35536	9
1090334	0.1	3	WERE	'ABILENE ENERGY CENTER 115KV'	6	-0.3555	WERE	'CITY OF GIRARD 69KV'	5	0.00001	-0.35551	9
1090416	0.1	3	WERE	'ABILENE ENERGY CENTER 115KV'	6	-0.3555	WERE	'CITY OF IOLA 69KV'	27	0.00001	-0.35551	9
1090662	0.1	3	WERE	'ABILENE ENERGY CENTER 115KV'	6	-0.3555	WERE	'CITY OF MULVANE 69KV'	9	-0.00091	-0.35459	9
1090674	0.1	3	WERE	'ABILENE ENERGY CENTER 115KV'	6	-0.3555	WERE	'CITY OF OSAGE CITY 115KV'	7	-0.00386	-0.35164	9
1090676	0.1	3	WERE	'ABILENE ENERGY CENTER 115KV'	6	-0.3555	WERE	'CITY OF WELLINGTON 69KV'	41	-0.00097	-0.35453	9
1090754	0.1	3	WERE	'ABILENE ENERGY CENTER 115KV'	6	-0.3555	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	-0.00002	-0.35548	9
1090820	0.1	3	WERE	'ABILENE ENERGY CENTER 115KV'	6	-0.3555	WERE	'EVANS ENERGY CENTER 138KV'	473	-0.00072	-0.35478	9
1090820	0.1	3	WERE	'ABILENE ENERGY CENTER 115KV'	6	-0.3555	WERE	'GILL ENERGY CENTER 138KV'	155	-0.00145	-0.35405	9
1090823	0.1	3	WERE	'ABILENE ENERGY CENTER 115KV'	6	-0.3555	WERE	'GILL ENERGY CENTER 69KV'	27	-0.00125	-0.35425	9
1090825	0.1	3	WERE	'ABILENE ENERGY CENTER 115KV'	6	-0.3555	WERE	'HOLTON 115KV'	16	0.00059	-0.35609	9
1090917	0.1	3	WERE	'ABILENE ENERGY CENTER 115KV'	6	-0.3555	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00228	-0.35778	9
1090919	0.1	3	WERE	'ABILENE ENERGY CENTER 115KV'	6	-0.3555	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01092	-0.36642	9
1090920	0.1	3	WERE	'ABILENE ENERGY CENTER 115KV'	6	-0.3555	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	-0.00115	-0.35435	9
1090921	0.1	3	WERE	'ABILENE ENERGY CENTER 115KV'	6	-0.3555	WERE	'LAWRENCE ENERGY CENTER 230KV'	218	-0.00142	-0.35408	9
1090922	0.3	3	WERE	'ABILENE ENERGY CENTER 115KV'	6	-0.3555	WERE	'SOUTH SENECA 115KV'	15	-0.00265	-0.35285	9
1090923	0.1	3	WERE	'ABILENE ENERGY CENTER 115KV'	6	-0.3555	WERE	'TECUMSEH ENERGY CENTER 115KV'	128	-0.00484	-0.35066	9
1090929	0.3	3	WERE	'ABILENE ENERGY CENTER 115KV'	6	-0.3555	WERE	'WACO 138KV'	18	-0.00138	-0.35412	9
1090930	0.1	3	WERE	'CLAY CENTER JUNCTION 115KV'	12	-0.23402	WERE	'SMOKEY HILLS 34KV'	25	0.0828	-0.31682	10
1090931	0.4	3	WERE	'CLAY CENTER JUNCTION 115KV'	12	-0.23402	WERE	'SMOKYHIL 230 230KV'	59	0.0828	-0.31682	10
1090932	0.1	3	WERE	'CLAY CENTER JUNCTION 115KV'	12	-0.23402	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	-0.0947	-0.2608	13
1090934	0.2	3	WERE	'CLAY CENTER JUNCTION 115KV'	12	-0.23402	WERE	'SMOKEY HILLS 34KV'	25	0.0828	-0.24545	14
1090935	0.1	3	WERE	'CLAY CENTER JUNCTION 115KV'	12	-0.23402	WERE	'SMOKYHIL 230 230KV'	59	0.0828	-0.24545	14
1091028	0.1	3	WERE	'CLAY CENTER JUNCTION 115KV'	12	-0.23402	WERE	'CHANUTE 69KV'	76	-0.00006	-0.23396	14
1091036	0.1	3	WERE	'CLAY CENTER JUNCTION 115KV'	12	-0.23402	WERE	'CITY OF AUGUSTA 69KV'	20	-0.00063	-0.23339	14
1091045	0.1	3	WERE	'CLAY CENTER JUNCTION 115KV'	12	-0.23402	WERE	'CITY OF BURLINGTON 69KV'	9	-0.00002	-0.234	14
			WERE	'CLAY CENTER JUNCTION 115KV'	12	-0.23402	WERE	'CITY OF ERIE 69KV'	24	-0.00006	-0.23396	14
			WERE	'CLAY CENTER JUNCTION 115KV'	12	-0.23402	WERE	'CITY OF FREDONIA 69KV'	10	-0.00014	-0.23388	14
			WERE	'CLAY CENTER JUNCTION 115KV'	12	-0.23402	WERE	'CITY OF GIRARD 69KV'	5	0.00001	-0.23403	14
			WERE	'CLAY CENTER JUNCTION 115KV'	12	-0.23402	WERE	'CITY OF IOLA 69KV'	27	0.00001	-0.23403	14
			WERE	'CLAY CENTER JUNCTION 115KV'	12	-0.23402	WERE	'CITY OF MULVANE 69KV'	9	-0.00091	-0.23311	14
			WERE	'CLAY CENTER JUNCTION 115KV'	12	-0.23402	WERE	'CITY OF OSAGE CITY 115KV'	7	-0.00386	-0.23016	14
			WERE	'CLAY CENTER JUNCTION 115KV'	12	-0.23402	WERE	'CITY OF WELLINGTON 69KV'	41	-0.00097	-0.23305	14
			WERE	'CLAY CENTER JUNCTION 115KV'	12	-0.23402	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	-0.00002	-0.234	14
			WERE	'CLAY CENTER JUNCTION 115KV'	12	-0.23402	WERE	'EVANS ENERGY CENTER 138KV'	473	-0.00072	-0.23333	14
			WERE	'CLAY CENTER JUNCTION 115KV'	12	-0.23402	WERE	'GILL ENERGY CENTER 138KV'	155	-0.00145	-0.23257	14
			WERE	'CLAY CENTER JUNCTION 115KV'	12	-0.23402	WERE	'GILL ENERGY CENTER 69KV'	27	-0.00125	-0.23277	14
			WERE	'CLAY CENTER JUNCTION 115KV'	12	-0.23402	WERE	'HOLTON 115KV'	16	0.00059	-0.23461	14
			WERE	'CLAY CENTER JUNCTION 115KV'	12	-0.23402	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00228	-0.2363	14
			WERE	'CLAY CENTER JUNCTION 115KV'	12	-0.23402	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01092	-0.24494	14
			WERE	'CLAY CENTER JUNCTION 115KV'	12	-0.23402	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	-0.00115	-0.23287	14
			WERE	'CLAY CENTER JUNCTION 115KV'	12	-0.23402	WERE	'LAWRENCE ENERGY CENTER 230KV'	218	-0.00142	-0.2326	14
			WERE	'CLAY CENTER JUNCTION 115KV'	12	-0.23402	WERE	'SOUTH SENECA 115KV'	15	-0.00265	-0.23137	14
			WERE	'CLAY CENTER JUNCTION 115KV'	12	-0.23402	WERE	'TECUMSEH ENERGY CENTER 115KV'	128	-0.00484	-0.22918	14
			WERE	'CLAY CENTER JUNCTION 115KV'	12	-0.23402	WERE	'WACO 138KV'	18	-0.00138	-0.23264	14
			WERE	'ABILENE ENERGY CENTER 115KV'	6	-0.3555	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	-0.16265	-0.19285	17
			WERE	'BPU - CITY OF MCPHERSON 115KV'	39	-0.16265	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01092	-0.17357	19

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'HUTCHINSON ENERGY CENTER 115KV'	263	-0.0947	WERE	'SMOKEY HILLS 34KV'	25	0.0828	-0.1775	19
WERE	'HUTCHINSON ENERGY CENTER 115KV'	263	-0.0947	WERE	'SMOKEYHIL 230 230KV'	59	0.0828	-0.1775	19
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09457	WERE	'SMOKEY HILLS 34KV'	25	0.0828	-0.17737	19
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09457	WERE	'SMOKEYHIL 230 230KV'	59	0.0828	-0.17737	19
WERE	'BPU - CITY OF MCPHERSON 115KV'	39	-0.16265	WERE	'CHANUTE 69KV'	76	-0.00066	-0.16259	20
WERE	'BPU - CITY OF MCPHERSON 115KV'	39	-0.16265	WERE	'CITY OF AUGUSTA 69KV'	20	-0.00063	-0.16202	20
WERE	'BPU - CITY OF MCPHERSON 115KV'	39	-0.16265	WERE	'CITY OF BURLINGTON 69KV'	9	-0.00002	-0.16263	20
WERE	'BPU - CITY OF MCPHERSON 115KV'	39	-0.16265	WERE	'CITY OF ERIE 69KV'	24	-0.00006	-0.16259	20
WERE	'BPU - CITY OF MCPHERSON 115KV'	39	-0.16265	WERE	'CITY OF FREDONIA 69KV'	10	-0.00014	-0.16251	20
WERE	'BPU - CITY OF MCPHERSON 115KV'	39	-0.16265	WERE	'CITY OF IOLA 69KV'	27	0.00001	-0.16266	20
WERE	'BPU - CITY OF MCPHERSON 115KV'	39	-0.16265	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	-0.00002	-0.16263	20
WERE	'BPU - CITY OF MCPHERSON 115KV'	39	-0.16265	WERE	'EVANS ENERGY CENTER 138KV'	473	-0.00072	-0.16193	20
WERE	'BPU - CITY OF MCPHERSON 115KV'	39	-0.16265	WERE	'HOLTON 115KV'	16	0.00059	-0.16324	20
WERE	'BPU - CITY OF MCPHERSON 115KV'	39	-0.16265	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00228	-0.16493	20
WERE	'BPU - CITY OF MCPHERSON 115KV'	39	-0.16265	WERE	'CITY OF MULVANE 69KV'	9	-0.00091	-0.16174	21
WERE	'BPU - CITY OF MCPHERSON 115KV'	39	-0.16265	WERE	'CITY OF OSAGE CITY 115KV'	7	-0.00386	-0.15879	21
WERE	'BPU - CITY OF MCPHERSON 115KV'	39	-0.16265	WERE	'CITY OF WELLINGTON 69KV'	41	-0.00097	-0.16168	21
WERE	'BPU - CITY OF MCPHERSON 115KV'	39	-0.16265	WERE	'GILL ENERGY CENTER 138KV'	155	-0.00145	-0.1612	21
WERE	'BPU - CITY OF MCPHERSON 115KV'	39	-0.16265	WERE	'GILL ENERGY CENTER 69KV'	27	-0.00125	-0.1614	21
WERE	'BPU - CITY OF MCPHERSON 115KV'	39	-0.16265	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	-0.00115	-0.1615	21
WERE	'BPU - CITY OF MCPHERSON 115KV'	39	-0.16265	WERE	'LAWRENCE ENERGY CENTER 230KV'	218	-0.00142	-0.16123	21
WERE	'BPU - CITY OF MCPHERSON 115KV'	39	-0.16265	WERE	'SOUTH SENECA 115KV'	15	-0.00265	-0.16	21
WERE	'BPU - CITY OF MCPHERSON 115KV'	39	-0.16265	WERE	'TECUMSEH ENERGY CENTER 115KV'	128	-0.00484	-0.15781	21
WERE	'BPU - CITY OF MCPHERSON 115KV'	39	-0.16265	WERE	'WACO 138KV'	18	-0.00138	-0.16127	21
WERE	'CLAY CENTER JUNCTION 115KV'	12	-0.23402	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	-0.0947	-0.13932	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	263	-0.0947	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01092	-0.10562	31
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09457	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01092	-0.10549	31
WERE	'HUTCHINSON ENERGY CENTER 115KV'	263	-0.0947	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00228	-0.09698	34
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09457	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00228	-0.09685	34
WERE	'HUTCHINSON ENERGY CENTER 115KV'	263	-0.0947	WERE	'CHANUTE 69KV'	76	-0.00006	-0.09464	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	263	-0.0947	WERE	'CITY OF AUGUSTA 69KV'	20	-0.00063	-0.09407	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	263	-0.0947	WERE	'CITY OF ERIE 69KV'	24	-0.00006	-0.09464	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	263	-0.0947	WERE	'CITY OF IOLA 69KV'	27	0.00001	-0.09471	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	263	-0.0947	WERE	'CITY OF WELLINGTON 69KV'	41	-0.00097	-0.09373	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	263	-0.0947	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	-0.00002	-0.09468	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	263	-0.0947	WERE	'EVANS ENERGY CENTER 138KV'	473	-0.00072	-0.09398	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	263	-0.0947	WERE	'GILL ENERGY CENTER 69KV'	27	-0.00125	-0.09345	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	263	-0.0947	WERE	'HOLTON 115KV'	16	0.00059	-0.09529	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	263	-0.0947	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	-0.00115	-0.09355	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09457	WERE	'CHANUTE 69KV'	76	-0.00006	-0.09451	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09457	WERE	'CITY OF AUGUSTA 69KV'	20	-0.00063	-0.09394	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09457	WERE	'CITY OF ERIE 69KV'	24	-0.00006	-0.09451	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09457	WERE	'CITY OF IOLA 69KV'	27	0.00001	-0.09458	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09457	WERE	'CITY OF WELLINGTON 69KV'	41	-0.00097	-0.0936	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09457	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	-0.00002	-0.09455	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.09457	WERE	'EVANS ENERGY CENTER 138KV'	473	-0.00072	-0.09385	35

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: WICHITA - RENO 345KV  
 Limiting Facility: NORTH AMERICAN PHILIPS - NORTH AMERICAN PHILIPS JUNCTION (SOUTH) 115KV CKT 1  
 Direction: From->To  
 Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1  
 Flowgate: 57372573741568725687312206FA  
 Date Redispatch Needed: 10/1/06 - 12/1/06  
 Season Flowgate Identified: 2006 Fall Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090662	1.2	3
1090680	2.1	3

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52198	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.12384	-0.64582	5
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52198	WERE	'CHANUTE 69KV'	40	0.00315	-0.52513	6
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52198	WERE	'CITY OF AUGUSTA 69KV'	19	0.00112	-0.5231	6
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52198	WERE	'CITY OF BURLINGTON 69KV'	5	0.00597	-0.52795	6
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52198	WERE	'CITY OF ERIE 69KV'	24	0.00315	-0.52513	6
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52198	WERE	'CITY OF GIRARD 69KV'	5	0.00325	-0.52523	6
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52198	WERE	'CITY OF IOLA 69KV'	16	0.00366	-0.52564	6
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52198	WERE	'CITY OF MULVANE 69KV'	5	-0.00109	-0.52089	6
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52198	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00273	-0.51925	6
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52198	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00597	-0.52795	6
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52198	WERE	'EVANS ENERGY CENTER 138KV'	305	0.00085	-0.52283	6
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52198	WERE	'GILL ENERGY CENTER 138KV'	105	-0.00531	-0.51667	6
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52198	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03466	-0.55664	6
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52198	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03598	-0.55796	6
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52198	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.02165	-0.54363	6
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52198	WERE	'LAWRENCE ENERGY CENTER 230KV'	232	0.02272	-0.54447	6
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52198	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.02612	-0.5481	6
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52198	WERE	'WACO 138KV'	18	-0.00468	-0.5173	6
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42294	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.12384	-0.54678	6
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42275	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.12384	-0.54659	6
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42294	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03466	-0.4576	7
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42294	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03598	-0.45892	7
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42294	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.02165	-0.44459	7
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42294	WERE	'LAWRENCE ENERGY CENTER 230KV'	232	0.02272	-0.44566	7
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42294	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.02612	-0.44906	7
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42275	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03466	-0.45741	7
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42275	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03598	-0.45873	7
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42275	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.02165	-0.4444	7
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42275	WERE	'LAWRENCE ENERGY CENTER 230KV'	232	0.02272	-0.44547	7
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42275	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.02612	-0.44887	7

SPP AGGREGATE SYSTEM IMPACT STUDY (SPP-2006-AG2-ASIS)

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Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42294	WERE	'CHANUTE 69KV'	40	0.00315	-0.42609	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42294	WERE	'CITY OF AUGUSTA 69KV'	19	0.00112	-0.42406	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42294	WERE	'CITY OF BURLINGTON 69KV'	5	0.00597	-0.42891	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42294	WERE	'CITY OF ERIE 69KV'	24	0.00315	-0.42609	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42294	WERE	'CITY OF GIRARD 69KV'	5	0.00325	-0.42619	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42294	WERE	'CITY OF IOLA 69KV'	16	0.00366	-0.4266	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42294	WERE	'CITY OF MULVANE 69KV'	5	-0.00109	-0.42185	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42294	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00273	-0.42021	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42294	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00597	-0.42891	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42294	WERE	'EVANS ENERGY CENTER 138KV'	305	0.00085	-0.42379	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42294	WERE	'GILL ENERGY CENTER 138KV'	105	-0.00531	-0.41763	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42294	WERE	'WACO 138KV'	18	-0.00468	-0.41826	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42275	WERE	'CHANUTE 69KV'	40	0.00315	-0.4259	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42275	WERE	'CITY OF AUGUSTA 69KV'	19	0.00112	-0.42387	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42275	WERE	'CITY OF BURLINGTON 69KV'	5	0.00597	-0.42872	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42275	WERE	'CITY OF ERIE 69KV'	24	0.00315	-0.4259	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42275	WERE	'CITY OF GIRARD 69KV'	5	0.00325	-0.426	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42275	WERE	'CITY OF IOLA 69KV'	16	0.00366	-0.42641	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42275	WERE	'CITY OF MULVANE 69KV'	5	-0.00109	-0.42166	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42275	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00273	-0.42002	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42275	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00597	-0.42872	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42275	WERE	'EVANS ENERGY CENTER 138KV'	305	0.00085	-0.4236	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42275	WERE	'GILL ENERGY CENTER 138KV'	105	-0.00531	-0.41744	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42275	WERE	'WACO 138KV'	18	-0.00468	-0.41807	8
WERE	'ST JOHN 115KV'	8	-0.24523	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.12384	-0.36907	9
WERE	'ST JOHN 115KV'	8	-0.24523	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03466	-0.27989	12
WERE	'ST JOHN 115KV'	8	-0.24523	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03598	-0.28121	12
WERE	'ST JOHN 115KV'	8	-0.24523	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.02165	-0.26688	12
WERE	'ST JOHN 115KV'	8	-0.24523	WERE	'LAWRENCE ENERGY CENTER 230KV'	232	0.02272	-0.26795	12
WERE	'ST JOHN 115KV'	8	-0.24523	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.02612	-0.27135	12
WERE	'ST JOHN 115KV'	8	-0.24523	WERE	'CHANUTE 69KV'	40	0.00315	-0.24838	13
WERE	'ST JOHN 115KV'	8	-0.24523	WERE	'CITY OF AUGUSTA 69KV'	19	0.00112	-0.24635	13
WERE	'ST JOHN 115KV'	8	-0.24523	WERE	'CITY OF BURLINGTON 69KV'	5	0.00597	-0.2512	13
WERE	'ST JOHN 115KV'	8	-0.24523	WERE	'CITY OF ERIE 69KV'	24	0.00315	-0.24838	13
WERE	'ST JOHN 115KV'	8	-0.24523	WERE	'CITY OF GIRARD 69KV'	5	0.00325	-0.24848	13
WERE	'ST JOHN 115KV'	8	-0.24523	WERE	'CITY OF IOLA 69KV'	16	0.00366	-0.24889	13
WERE	'ST JOHN 115KV'	8	-0.24523	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00597	-0.2512	13
WERE	'ST JOHN 115KV'	8	-0.24523	WERE	'EVANS ENERGY CENTER 138KV'	305	0.00085	-0.24608	13
WERE	'ST JOHN 115KV'	8	-0.24523	WERE	'CITY OF MULVANE 69KV'	5	-0.00109	-0.24414	14
WERE	'ST JOHN 115KV'	8	-0.24523	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00273	-0.2425	14
WERE	'ST JOHN 115KV'	8	-0.24523	WERE	'GILL ENERGY CENTER 138KV'	105	-0.00531	-0.23992	14
WERE	'ST JOHN 115KV'	8	-0.24523	WERE	'WACO 138KV'	18	-0.00468	-0.24055	14
MIDW	'PAWNEE 115KV'	999	-0.24523	MIDW	'KNOLL 3 115 115KV'	9999	-0.03284	-0.21239	16
MIDW	'RICE 115KV'	999	-0.24523	MIDW	'KNOLL 3 115 115KV'	9999	-0.03284	-0.21239	16
MIDW	'GREAT BEND PLANT 69KV'	10	-0.20778	MIDW	'KNOLL 3 115 115KV'	9999	-0.03284	-0.17494	19
MIDW	'PAWNEE 115KV'	999	-0.24523	MIDW	'COLBY 115KV'	11	-0.07452	-0.17071	19
MIDW	'RICE 115KV'	999	-0.24523	MIDW	'COLBY 115KV'	11	-0.07452	-0.17071	19
MIDW	'GREAT BEND PLANT 69KV'	10	-0.20778	MIDW	'COLBY 115KV'	11	-0.07452	-0.13326	25
WERE	'CITY OF MULVANE 69KV'	11	-0.00109	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.12384	-0.12493	26
WERE	'CITY OF WELLINGTON 69KV'	24	-0.00273	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.12384	-0.12657	26
WERE	'CITY OF WINFIELD 69KV'	40	-0.00158	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.12384	-0.12542	26
WERE	'GILL ENERGY CENTER 138KV'	68	-0.00531	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.12384	-0.12915	26
WERE	'GILL ENERGY CENTER 69KV'	118	-0.00375	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.12384	-0.12759	26
WERE	'CHANUTE 69KV'	48	0.00315	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.12384	-0.12069	27
WERE	'CITY OF FREDONIA 69KV'	10	0.0025	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.12384	-0.12134	27
WERE	'CITY OF IOLA 69KV'	21	0.00366	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.12384	-0.12018	27
WERE	'EVANS ENERGY CENTER 138KV'	488	0.00085	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.12384	-0.12299	27
WERE	'GETTY 69KV'	35	0.0016	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.12384	-0.12224	27
WERE	'LATHAM1234.0 345KV'	150	0.00291	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.12384	-0.12093	27
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.00305	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.12384	-0.12079	27
WERE	'SOUTH SENECA 115KV'	20	0.00587	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.12384	-0.11797	28
WERE	'CITY OF OSAGE CITY 115KV'	11	0.01406	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.12384	-0.10978	30
WERE	'HOLTON 115KV'	33	0.01846	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.12384	-0.10538	31
WERE	'LAWRENCE ENERGY CENTER 115KV'	78	0.02165	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.12384	-0.10219	32
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52198	WERE	'HUTCHINSON ENERGY CENTER 115KV'	80	-0.42294	-0.09904	33
WERE	'LAWRENCE ENERGY CENTER 230KV'	37	0.02272	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.12384	-0.10112	33
WERE	'TECUMSEH ENERGY CENTER 115KV'	53	0.02612	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.12384	-0.09772	34
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	0.02657	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.12384	-0.09727	34
WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.03466	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.12384	-0.08918	37
WEPL	'A. M. MULLERGEN GENERATOR 115KV'	63	-0.22221	WEPL	'GRAY COUNTY WIND FARM 115KV'	73	-0.13628	-0.08593	38

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: WICHITA - RENO 345KV  
 Limiting Facility: NORTH AMERICAN PHILIPS - NORTH AMERICAN PHILIPS JUNCTION (SOUTH) 115KV CKT 1  
 Direction: From->To  
 Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1  
 Flowgate: 57372573741568725687312206WP  
 Date Redispatch Needed: 12/1/06 - 4/1/07  
 Season Flowgate Identified: 2006 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090270	0.2	0
1090271	0.1	0

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52193	WERE	'CHANUTE 69KV'	35	0.00317	-0.5251	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52193	WERE	'CITY OF AUGUSTA 69KV'	20	0.00114	-0.52307	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52193	WERE	'CITY OF BURLINGTON 69KV'	5	0.006	-0.52793	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52193	WERE	'CITY OF ERIE 69KV'	4	0.00317	-0.5251	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52193	WERE	'CITY OF FREDONIA 69KV'	8	0.00252	-0.52445	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52193	WERE	'CITY OF GIRARD 69KV'	1	0.00327	-0.5252	1

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52193	WERE	'CITY OF IOLA 69KV'	14	0.00368	-0.52561	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52193	WERE	'CITY OF MULVANE 69KV'	4	-0.00106	-0.52087	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52193	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00271	-0.51922	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52193	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.006	-0.52793	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52193	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0347	-0.55663	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52193	WERE	'JEFFREY ENERGY CENTER 345KV'	935	0.03601	-0.55794	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52193	WERE	'LAWRENCE ENERGY CENTER 230KV'	135	0.02275	-0.54468	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52193	WERE	'WACO 138KV'	18	-0.00465	-0.51728	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.42289	WERE	'CHANUTE 69KV'	35	0.00317	-0.42606	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.42289	WERE	'CITY OF AUGUSTA 69KV'	20	0.00114	-0.42403	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.42289	WERE	'CITY OF BURLINGTON 69KV'	5	0.006	-0.42889	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.42289	WERE	'CITY OF ERIE 69KV'	4	0.00317	-0.42606	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.42289	WERE	'CITY OF FREDONIA 69KV'	8	0.00252	-0.42541	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.42289	WERE	'CITY OF GIRARD 69KV'	1	0.00327	-0.42616	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.42289	WERE	'CITY OF IOLA 69KV'	14	0.00368	-0.42657	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.42289	WERE	'CITY OF MULVANE 69KV'	4	-0.00106	-0.42183	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.42289	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00271	-0.42018	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.42289	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.006	-0.42889	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.42289	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0347	-0.45759	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.42289	WERE	'JEFFREY ENERGY CENTER 345KV'	935	0.03601	-0.4589	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.42289	WERE	'LAWRENCE ENERGY CENTER 230KV'	135	0.02275	-0.44564	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.42289	WERE	'WACO 138KV'	18	-0.00465	-0.41824	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.4227	WERE	'CHANUTE 69KV'	35	0.00317	-0.42587	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.4227	WERE	'CITY OF AUGUSTA 69KV'	20	0.00114	-0.42384	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.4227	WERE	'CITY OF BURLINGTON 69KV'	5	0.006	-0.4287	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.4227	WERE	'CITY OF ERIE 69KV'	4	0.00317	-0.42587	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.4227	WERE	'CITY OF FREDONIA 69KV'	8	0.00252	-0.42522	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.4227	WERE	'CITY OF GIRARD 69KV'	1	0.00327	-0.42597	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.4227	WERE	'CITY OF IOLA 69KV'	14	0.00368	-0.42638	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.4227	WERE	'CITY OF MULVANE 69KV'	4	-0.00106	-0.42164	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.4227	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00271	-0.41999	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.4227	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.006	-0.4287	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.4227	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0347	-0.4574	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.4227	WERE	'JEFFREY ENERGY CENTER 345KV'	935	0.03601	-0.45871	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.4227	WERE	'LAWRENCE ENERGY CENTER 230KV'	135	0.02275	-0.44545	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.4227	WERE	'WACO 138KV'	18	-0.00465	-0.41805	1
WERE	'ST JOHN 115KV'	8	-0.24517	WERE	'CHANUTE 69KV'	35	0.00317	-0.24834	1
WERE	'ST JOHN 115KV'	8	-0.24517	WERE	'CITY OF AUGUSTA 69KV'	20	0.00114	-0.24631	1
WERE	'ST JOHN 115KV'	8	-0.24517	WERE	'CITY OF BURLINGTON 69KV'	5	0.006	-0.25117	1
WERE	'ST JOHN 115KV'	8	-0.24517	WERE	'CITY OF ERIE 69KV'	4	0.00317	-0.24834	1
WERE	'ST JOHN 115KV'	8	-0.24517	WERE	'CITY OF FREDONIA 69KV'	8	0.00252	-0.24769	1
WERE	'ST JOHN 115KV'	8	-0.24517	WERE	'CITY OF GIRARD 69KV'	1	0.00327	-0.24844	1
WERE	'ST JOHN 115KV'	8	-0.24517	WERE	'CITY OF IOLA 69KV'	14	0.00368	-0.24885	1
WERE	'ST JOHN 115KV'	8	-0.24517	WERE	'CITY OF MULVANE 69KV'	4	-0.00106	-0.24411	1
WERE	'ST JOHN 115KV'	8	-0.24517	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00271	-0.24246	1
WERE	'ST JOHN 115KV'	8	-0.24517	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.006	-0.25117	1
WERE	'ST JOHN 115KV'	8	-0.24517	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0347	-0.27987	1
WERE	'ST JOHN 115KV'	8	-0.24517	WERE	'JEFFREY ENERGY CENTER 345KV'	935	0.03601	-0.28118	1
WERE	'ST JOHN 115KV'	8	-0.24517	WERE	'LAWRENCE ENERGY CENTER 230KV'	135	0.02275	-0.26792	1
WERE	'ST JOHN 115KV'	8	-0.24517	WERE	'WACO 138KV'	18	-0.00465	-0.24052	1
MIDW	'GREAT BEND PLANT 69KV'	10	-0.20772	MIDW	'KNOLL 3 115 115KV'	9999	-0.03279	-0.17493	2
MIDW	'PAWNEE 115KV'	999	-0.24517	MIDW	'COLBY 115KV'	12	-0.07445	-0.17072	2
MIDW	'PAWNEE 115KV'	999	-0.24517	MIDW	'KNOLL 3 115 115KV'	9999	-0.03279	-0.21238	2
MIDW	'RICE 115KV'	999	-0.24517	MIDW	'COLBY 115KV'	12	-0.07445	-0.17072	2
MIDW	'RICE 115KV'	999	-0.24517	MIDW	'KNOLL 3 115 115KV'	9999	-0.03279	-0.21238	2
MIDW	'GREAT BEND PLANT 69KV'	10	-0.20772	MIDW	'COLBY 115KV'	12	-0.07445	-0.13327	3
WEPL	'A. M. MULLERGEN GENERATOR 115KV'	63	-0.22216	WEPL	'GRAY COUNTY WIND FARM 115KV'	73	-0.1362	-0.08596	4
WEPL	'A. M. MULLERGEN GENERATOR 115KV'	63	-0.22216	WEPL	'JUDSON LARGE 115KV'	8	-0.13605	-0.08611	4
WEPL	'NORTH WEST GREAT BEND 115KV'	14	-0.22216	WEPL	'GRAY COUNTY WIND FARM 115KV'	73	-0.1362	-0.08596	4
WEPL	'NORTH WEST GREAT BEND 115KV'	14	-0.22216	WEPL	'JUDSON LARGE 115KV'	8	-0.13605	-0.08611	4
MIDW	'ATWOOD 115KV'	4	-0.07424	MIDW	'KNOLL 3 115 115KV'	9999	-0.03279	-0.04145	8
WERE	'GILL ENERGY CENTER 138KV'	218	-0.00528	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0347	-0.03998	8
WERE	'GILL ENERGY CENTER 138KV'	218	-0.00528	WERE	'JEFFREY ENERGY CENTER 345KV'	935	0.03601	-0.04129	8
WERE	'GILL ENERGY CENTER 69KV'	118	-0.00373	WERE	'JEFFREY ENERGY CENTER 345KV'	935	0.03601	-0.03974	8
WERE	'CITY OF MULVANE 69KV'	12	-0.00106	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0347	-0.03576	9
WERE	'CITY OF MULVANE 69KV'	12	-0.00106	WERE	'JEFFREY ENERGY CENTER 345KV'	935	0.03601	-0.03707	9
WERE	'CITY OF WELLINGTON 69KV'	24	-0.00271	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0347	-0.03741	9
WERE	'CITY OF WELLINGTON 69KV'	24	-0.00271	WERE	'JEFFREY ENERGY CENTER 345KV'	935	0.03601	-0.03872	9
WERE	'CITY OF WINFIELD 69KV'	40	-0.00156	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0347	-0.03626	9
WERE	'CITY OF WINFIELD 69KV'	40	-0.00156	WERE	'JEFFREY ENERGY CENTER 345KV'	935	0.03601	-0.03757	9
WERE	'GILL ENERGY CENTER 69KV'	118	-0.00373	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0347	-0.03843	9
WERE	'OXFORD 138KV'	3	-0.00137	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0347	-0.03607	9
WERE	'OXFORD 138KV'	3	-0.00137	WERE	'JEFFREY ENERGY CENTER 345KV'	935	0.03601	-0.03738	9
WERE	'CHANUTE 69KV'	52	0.00317	WERE	'JEFFREY ENERGY CENTER 345KV'	935	0.03601	-0.03284	10
WERE	'CITY OF AUGUSTA 69KV'	7	0.00114	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0347	-0.03356	10
WERE	'CITY OF AUGUSTA 69KV'	7	0.00114	WERE	'JEFFREY ENERGY CENTER 345KV'	935	0.03601	-0.03487	10
WERE	'CITY OF ERIE 69KV'	23	0.00317	WERE	'JEFFREY ENERGY CENTER 345KV'	935	0.03601	-0.03284	10
WERE	'CITY OF GIRARD 69KV'	9	0.00327	WERE	'JEFFREY ENERGY CENTER 345KV'	935	0.03601	-0.03274	10
WERE	'CITY OF IOLA 69KV'	24	0.00368	WERE	'JEFFREY ENERGY CENTER 345KV'	935	0.03601	-0.03233	10
WERE	'CITY OF NEODESHA 69KV'	5	0.00231	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0347	-0.03239	10
WERE	'CITY OF NEODESHA 69KV'	5	0.00231	WERE	'JEFFREY ENERGY CENTER 345KV'	935	0.03601	-0.0337	10
WERE	'EVANS ENERGY CENTER 138KV'	793	0.00088	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0347	-0.03382	10
WERE	'EVANS ENERGY CENTER 138KV'	793	0.00088	WERE	'JEFFREY ENERGY CENTER 345KV'	935	0.03601	-0.03513	10
WERE	'GETTY 69KV'	35	0.00162	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0347	-0.03308	10
WERE	'GETTY 69KV'	35	0.00162	WERE	'JEFFREY ENERGY CENTER 345KV'	935	0.03601	-0.03439	10
WERE	'LATHAM1234.0 345KV'	150	0.00293	WERE	'JEFFREY ENERGY CENTER 345KV'	935	0.03601	-0.03308	10
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.00307	WERE	'JEFFREY ENERGY CENTER 345KV'	935	0.03601	-0.03294	10
WERE	'CHANUTE 69KV'	52	0.00317	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0347	-0.03153	11
WERE	'CITY OF BURLINGTON 69KV'	8	0.006	WERE	'JEFFREY ENERGY CENTER 345KV'	935	0.03601	-0.03001	11
WERE	'CITY OF ERIE 69KV'	23	0.00317	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0347	-0.03153	11
WERE	'CITY OF GIRARD 69KV'	9	0.00327	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0347	-0.03143	11
WERE	'CITY OF IOLA 69KV'	24	0.00368	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0347	-0.03102	11
WERE	'LATHAM1234.0 345KV'	150	0.00293	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0347	-0.03177	11
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.00307	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0347	-0.03163	11

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

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

Redispatch Amount = Relief Amount / Factor

Upgrade: WICHITA - RENO 345KV  
 Limiting Facility: NORTH AMERICAN PHILIPS - NORTH AMERICAN PHILIPS JUNCTION (SOUTH) 115KV CKT 1  
 Direction: From->To  
 Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1  
 Flowgate: 5732573741568725687312207FA  
 Date Redispatch Needed: Starting 2007 10/1 - 12/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Fall Peak

Reservation	Relief Amount	Aggregate Relief Amount										
1090270		0.1	4									
1090271		0.1	4									
1090310		0.2	4									
1090612		0.5	4									
1090662		0.7	4									
1090674		0.1	4									
1090680		1.3	4									
1090695		0.7	4									
1090767		0.1	4									
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)			
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50469	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.08669	-0.59138	7			
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50469	WERE	'HOLTON 115KV'	8	0.01531	-0.52	7			
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50469	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02953	-0.53422	7			
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50469	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03066	-0.53535	7			
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50469	WERE	'LAWRENCE ENERGY CENTER 230KV'	233	0.01924	-0.52393	7			
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50469	WERE	'SMOKEY HILLS 34KV'	25	0.03108	-0.53577	7			
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50469	WERE	'TECUMSEH ENERGY CENTER 115KV'	88	0.02222	-0.52691	7			
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50469	WERE	'CHANUTE 69KV'	56	0.00259	-0.50728	8			
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50469	WERE	'CITY OF AUGUSTA 69KV'	20	0.00079	-0.50548	8			
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50469	WERE	'CITY OF BURLINGTON 69KV'	5	0.00495	-0.50964	8			
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50469	WERE	'CITY OF ERIE 69KV'	4	0.00259	-0.50728	8			
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50469	WERE	'CITY OF FREDONIA 69KV'	5	0.00204	-0.50673	8			
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50469	WERE	'CITY OF IOLA 69KV'	24	0.00303	-0.50772	8			
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50469	WERE	'CITY OF MULVANE 69KV'	5	-0.00108	-0.50361	8			
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50469	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00246	-0.50223	8			
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50469	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00495	-0.50964	8			
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50469	WERE	'EVANS ENERGY CENTER 138KV'	131	0.00057	-0.50526	8			
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50469	WERE	'SOUTH SENECA 115KV'	9	0.00358	-0.50827	8			
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50469	WERE	'WACO 138KV'	18	-0.00416	-0.50053	8			
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.3993	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.08669	-0.48599	8			
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39911	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.08669	-0.4858	8			
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.3993	WERE	'HOLTON 115KV'	8	0.01531	-0.41461	9			
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.3993	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02953	-0.42883	9			
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.3993	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03066	-0.42996	9			
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.3993	WERE	'LAWRENCE ENERGY CENTER 230KV'	233	0.01924	-0.41854	9			
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.3993	WERE	'SMOKEY HILLS 34KV'	25	0.03108	-0.43038	9			
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.3993	WERE	'TECUMSEH ENERGY CENTER 115KV'	88	0.02222	-0.42152	9			
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39911	WERE	'HOLTON 115KV'	8	0.01531	-0.41442	9			
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39911	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02953	-0.42864	9			
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39911	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03066	-0.42977	9			
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39911	WERE	'LAWRENCE ENERGY CENTER 230KV'	233	0.01924	-0.41835	9			
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39911	WERE	'SMOKEY HILLS 34KV'	25	0.03108	-0.43019	9			
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39911	WERE	'TECUMSEH ENERGY CENTER 115KV'	88	0.02222	-0.42133	9			
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.3993	WERE	'CHANUTE 69KV'	56	0.00259	-0.40189	10			
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.3993	WERE	'CITY OF AUGUSTA 69KV'	20	0.00079	-0.40009	10			
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.3993	WERE	'CITY OF BURLINGTON 69KV'	5	0.00495	-0.40425	10			
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.3993	WERE	'CITY OF ERIE 69KV'	4	0.00259	-0.40189	10			
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.3993	WERE	'CITY OF FREDONIA 69KV'	5	0.00204	-0.40134	10			
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.3993	WERE	'CITY OF IOLA 69KV'	24	0.00303	-0.40233	10			
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.3993	WERE	'CITY OF MULVANE 69KV'	5	-0.00108	-0.39822	10			
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.3993	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00246	-0.39684	10			
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.3993	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00495	-0.40425	10			
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.3993	WERE	'EVANS ENERGY CENTER 138KV'	131	0.00057	-0.39987	10			
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.3993	WERE	'SOUTH SENECA 115KV'	9	0.00358	-0.40288	10			
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39911	WERE	'WACO 138KV'	18	-0.00416	-0.39514	10			
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39911	WERE	'CHANUTE 69KV'	56	0.00259	-0.4017	10			
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39911	WERE	'CITY OF AUGUSTA 69KV'	20	0.00079	-0.3999	10			
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39911	WERE	'CITY OF BURLINGTON 69KV'	5	0.00495	-0.40406	10			
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39911	WERE	'CITY OF ERIE 69KV'	4	0.00259	-0.4017	10			
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39911	WERE	'CITY OF FREDONIA 69KV'	5	0.00204	-0.40115	10			
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39911	WERE	'CITY OF IOLA 69KV'	24	0.00303	-0.40214	10			
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39911	WERE	'CITY OF MULVANE 69KV'	5	-0.00108	-0.39803	10			
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39911	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00246	-0.39665	10			
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39911	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00495	-0.40406	10			
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39911	WERE	'EVANS ENERGY CENTER 138KV'	131	0.00057	-0.39968	10			
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39911	WERE	'SOUTH SENECA 115KV'	9	0.00358	-0.40269	10			
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39911	WERE	'WACO 138KV'	18	-0.00416	-0.39495	10			
WERE	'ST JOHN 115KV'	8	-0.21395	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.08669	-0.30064	13			
WERE	'ST JOHN 115KV'	8	-0.21395	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02953	-0.24348	16			
WERE	'ST JOHN 115KV'	8	-0.21395	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03066	-0.24461	16			
WERE	'ST JOHN 115KV'	8	-0.21395	WERE	'SMOKEY HILLS 34KV'	25	0.03108	-0.24503	16			
WERE	'ST JOHN 115KV'	8	-0.21395	WERE	'TECUMSEH ENERGY CENTER 115KV'	88	0.02222	-0.23617	16			
WERE	'ST JOHN 115KV'	8	-0.21395	WERE	'HOLTON 115KV'	8	0.01531	-0.22926	17			
WERE	'ST JOHN 115KV'	8	-0.21395	WERE	'LAWRENCE ENERGY CENTER 230KV'	233	0.01924	-0.23319	17			
WERE	'ST JOHN 115KV'	8	-0.21395	WERE	'CHANUTE 69KV'	56	0.00259	-0.21654	18			
WERE	'ST JOHN 115KV'	8	-0.21395	WERE	'CITY OF AUGUSTA 69KV'	20	0.00079	-0.21474	18			
WERE	'ST JOHN 115KV'	8	-0.21395	WERE	'CITY OF IOLA 69KV'	24	0.00303	-0.21698	18			
WERE	'ST JOHN 115KV'	8	-0.21395	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00246	-0.21149	18			
WERE	'ST JOHN 115KV'	8	-0.21395	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00495	-0.2189	18			
WERE	'ST JOHN 115KV'	8	-0.21395	WERE	'EVANS ENERGY CENTER 138KV'	131	0.00057	-0.21452	18			
WERE	'ST JOHN 115KV'	8	-0.21395	WERE	'SOUTH SENECA 115KV'	9	0.00358	-0.21753	18			

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'ST JOHN 115KV'	8	-0.21395	WERE	'WACO 138KV'	18	-0.00416	-0.20979	18
MIDW	'PAWNEE 115KV'	999	-0.21395	MIDW	'COLBY 115KV'	10	-0.07414	-0.13981	28
MIDW	'RICE 115KV'	999	-0.21395	MIDW	'COLBY 115KV'	10	-0.07414	-0.13981	28
MIDW	'PAWNEE 115KV'	999	-0.21395	MIDW	'KNOLL 3 115 115KV'	9999	-0.09105	-0.1229	31
MIDW	'RICE 115KV'	999	-0.21395	MIDW	'KNOLL 3 115 115KV'	9999	-0.09105	-0.1229	31
WEPL	'A. M. MULLERGEN GENERATOR 115KV'	63	-0.17551	WEPL	'HARPER 138KV'	15	-0.05831	-0.1172	33
WEPL	'NORTH WEST GREAT BEND 115KV'	14	-0.17551	WEPL	'HARPER 138KV'	15	-0.05831	-0.1172	33
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50469	WERE	'HUTCHINSON ENERGY CENTER 115KV'	40	-0.3993	-0.10539	37
WEPL	'A. M. MULLERGEN GENERATOR 115KV'	63	-0.17551	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	-0.11056	-0.06495	59
WEPL	'A. M. MULLERGEN GENERATOR 115KV'	63	-0.17551	WEPL	'JUDSON LARGE 115KV'	23	-0.11046	-0.06505	59
WERE	'GILL ENERGY CENTER 138KV'	218	-0.0047	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03066	-0.03536	109
WERE	'GILL ENERGY CENTER 138KV'	218	-0.0047	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02953	-0.03423	113
WERE	'GILL ENERGY CENTER 69KV'	118	-0.00336	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03066	-0.03402	114
WERE	'GILL ENERGY CENTER 69KV'	118	-0.00336	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02953	-0.03289	117
WERE	'CITY OF WINFIELD 69KV'	40	-0.00141	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03066	-0.03207	120
WERE	'EVANS ENERGY CENTER 138KV'	662	0.00057	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03066	-0.03009	128

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: WICHITA - RENO 345KV  
 Limiting Facility: NORTH AMERICAN PHILIPS - NORTH AMERICAN PHILIPS JUNCTION (SOUTH) 115KV CKT 1  
 Direction: From->To  
 Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1  
 Flowgate: 57372573741568725687312207G  
 Date Redispatch Needed: Starting 2007 4/1 - 6/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Spring Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090270	0.1	1
1090271	0.1	1
1090662	0.2	1
1090674	0.1	1
1090680	0.5	1
1090695	0.3	1
1090767	0.1	1
1090789	0.1	1
1090808	0.1	1
1090825	0.1	1
1090840	0.1	1

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52136	WERE	'6TH STREET 115KV'	1	0.02152	-0.54288	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52136	WERE	'ABILENE ENERGY CENTER 115KV'	27	0.12387	-0.64523	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52136	WERE	'CHANUTE 69KV'	40	0.0032	-0.52456	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52136	WERE	'CITY OF AUGUSTA 69KV'	20	0.00123	-0.52259	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52136	WERE	'CITY OF BURLINGTON 69KV'	5	0.00605	-0.52741	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52136	WERE	'CITY OF ERIE 69KV'	4	0.0032	-0.52456	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52136	WERE	'CITY OF FREDONIA 69KV'	10	0.00256	-0.52392	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52136	WERE	'CITY OF GIRARD 69KV'	3	0.0033	-0.52466	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52136	WERE	'CITY OF IOLA 69KV'	17	0.0037	-0.52506	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52136	WERE	'CITY OF MULVANE 69KV'	5	-0.00095	-0.52041	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52136	WERE	'CITY OF WELLINGTON 69KV'	20	-0.0026	-0.51876	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52136	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00605	-0.52741	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52136	WERE	'EVANS ENERGY CENTER 138KV'	305	0.00098	-0.52234	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52136	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00511	-0.51625	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52136	WERE	'HOLTON 115KV'	13	0.01854	-0.5399	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52136	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03473	-0.55609	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52136	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03601	-0.55737	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52136	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.02159	-0.54295	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52136	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.02269	-0.54405	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52136	WERE	'TECUMSEH ENERGY CENTER 115KV'	68	0.02612	-0.54748	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.52136	WERE	'WACO 138KV'	18	-0.00449	-0.51687	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42203	WERE	'ABILENE ENERGY CENTER 115KV'	27	0.12387	-0.5459	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42184	WERE	'ABILENE ENERGY CENTER 115KV'	27	0.12387	-0.54571	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42203	WERE	'6TH STREET 115KV'	1	0.02152	-0.44355	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42203	WERE	'CHANUTE 69KV'	40	0.0032	-0.42523	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42203	WERE	'CITY OF AUGUSTA 69KV'	20	0.00123	-0.42326	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42203	WERE	'CITY OF BURLINGTON 69KV'	5	0.00605	-0.42808	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42203	WERE	'CITY OF ERIE 69KV'	4	0.0032	-0.42523	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42203	WERE	'CITY OF FREDONIA 69KV'	10	0.00256	-0.42459	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42203	WERE	'CITY OF GIRARD 69KV'	3	0.0033	-0.42533	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42203	WERE	'CITY OF IOLA 69KV'	17	0.0037	-0.42573	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42203	WERE	'CITY OF MULVANE 69KV'	5	-0.00095	-0.42108	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42203	WERE	'CITY OF WELLINGTON 69KV'	20	-0.0026	-0.41943	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42203	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00605	-0.42808	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42203	WERE	'EVANS ENERGY CENTER 138KV'	305	0.00098	-0.42301	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42203	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00511	-0.41692	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42203	WERE	'HOLTON 115KV'	13	0.01854	-0.40507	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42203	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03473	-0.45676	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42203	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03601	-0.45804	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42203	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.02159	-0.44362	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42203	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.02269	-0.44472	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42203	WERE	'TECUMSEH ENERGY CENTER 115KV'	68	0.02612	-0.44815	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.42203	WERE	'WACO 138KV'	18	-0.00449	-0.41754	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42184	WERE	'6TH STREET 115KV'	1	0.02152	-0.44336	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42184	WERE	'CHANUTE 69KV'	40	0.0032	-0.42504	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42184	WERE	'CITY OF AUGUSTA 69KV'	20	0.00123	-0.42307	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42184	WERE	'CITY OF BURLINGTON 69KV'	5	0.00605	-0.42789	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42184	WERE	'CITY OF ERIE 69KV'	4	0.0032	-0.42504	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42184	WERE	'CITY OF FREDONIA 69KV'	10	0.00256	-0.42424	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42184	WERE	'CITY OF GIRARD 69KV'	3	0.0033	-0.42514	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42184	WERE	'CITY OF IOLA 69KV'	17	0.0037	-0.42554	3



Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42184	WERE	'CITY OF MULVANE 69KV'	5	-0.00095	-0.42089	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42184	WERE	'CITY OF WELLINGTON 69KV'	20	-0.0026	-0.41924	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42184	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00605	-0.42789	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42184	WERE	'EVANS ENERGY CENTER 138KV'	305	0.00098	-0.42282	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42184	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00511	-0.41673	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42184	WERE	'HOLTON 115KV'	13	0.01854	-0.44038	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42184	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03473	-0.45657	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42184	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03601	-0.45785	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42184	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.02159	-0.44343	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42184	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.02269	-0.44453	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42184	WERE	'TECUMSEH ENERGY CENTER 115KV'	68	0.02612	-0.44796	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42184	WERE	'WACO 138KV'	18	-0.00449	-0.41735	3
WERE	'ST JOHN 115KV'	8	-0.24102	WERE	'ABILENE ENERGY CENTER 115KV'	27	0.12387	-0.36489	3
WERE	'ST JOHN 115KV'	8	-0.24102	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03473	-0.27575	4
WERE	'ST JOHN 115KV'	8	-0.24102	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03601	-0.27703	4
WERE	'ST JOHN 115KV'	8	-0.24102	WERE	'CHANUTE 69KV'	40	0.0032	-0.24422	5
WERE	'ST JOHN 115KV'	8	-0.24102	WERE	'CITY OF AUGUSTA 69KV'	20	0.00123	-0.24225	5
WERE	'ST JOHN 115KV'	8	-0.24102	WERE	'CITY OF BURLINGTON 69KV'	5	0.00605	-0.24707	5
WERE	'ST JOHN 115KV'	8	-0.24102	WERE	'CITY OF ERIE 69KV'	4	0.0032	-0.24422	5
WERE	'ST JOHN 115KV'	8	-0.24102	WERE	'CITY OF FREDONIA 69KV'	10	0.00256	-0.24358	5
WERE	'ST JOHN 115KV'	8	-0.24102	WERE	'CITY OF GIRARD 69KV'	3	0.0033	-0.24432	5
WERE	'ST JOHN 115KV'	8	-0.24102	WERE	'CITY OF IOLA 69KV'	17	0.0037	-0.24472	5
WERE	'ST JOHN 115KV'	8	-0.24102	WERE	'CITY OF MULVANE 69KV'	5	-0.00095	-0.24007	5
WERE	'ST JOHN 115KV'	8	-0.24102	WERE	'CITY OF WELLINGTON 69KV'	20	-0.0026	-0.23842	5
WERE	'ST JOHN 115KV'	8	-0.24102	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00605	-0.24707	5
WERE	'ST JOHN 115KV'	8	-0.24102	WERE	'EVANS ENERGY CENTER 138KV'	305	0.00098	-0.242	5
WERE	'ST JOHN 115KV'	8	-0.24102	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00511	-0.23591	5
WERE	'ST JOHN 115KV'	8	-0.24102	WERE	'HOLTON 115KV'	13	0.01854	-0.25956	5
WERE	'ST JOHN 115KV'	8	-0.24102	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.02159	-0.26261	5
WERE	'ST JOHN 115KV'	8	-0.24102	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.02269	-0.26371	5
WERE	'ST JOHN 115KV'	8	-0.24102	WERE	'TECUMSEH ENERGY CENTER 115KV'	68	0.02612	-0.26714	5
WERE	'ST JOHN 115KV'	8	-0.24102	WERE	'WACO 138KV'	18	-0.00449	-0.23653	5
MIDW	'PAWNEE 115KV'	999	-0.24102	MIDW	'KNOLL 3 115 115KV'	9999	-0.03561	-0.20541	6
MIDW	'RICE 115KV'	999	-0.24102	MIDW	'KNOLL 3 115 115KV'	9999	-0.03561	-0.20541	6
MIDW	'GREAT BEND PLANT 69KV'	10	-0.21324	MIDW	'KNOLL 3 115 115KV'	9999	-0.03561	-0.17763	7
MIDW	'PAWNEE 115KV'	999	-0.24102	MIDW	'COLBY 115KV'	12	-0.07562	-0.1654	7
MIDW	'RICE 115KV'	999	-0.24102	MIDW	'COLBY 115KV'	12	-0.07562	-0.1654	7
WERE	'GILL ENERGY CENTER 138KV'	118	-0.00511	WERE	'ABILENE ENERGY CENTER 115KV'	27	0.12387	-0.12898	9
MIDW	'GREAT BEND PLANT 69KV'	10	-0.21324	MIDW	'COLBY 115KV'	12	-0.07562	-0.13762	9
WERE	'BROWN COUNTY 115KV'	6	0.00713	WERE	'ABILENE ENERGY CENTER 115KV'	27	0.12387	-0.11674	10
WERE	'CHANUTE 69KV'	47	0.0032	WERE	'ABILENE ENERGY CENTER 115KV'	27	0.12387	-0.12067	10
WERE	'CITY OF AUGUSTA 69KV'	7	0.00123	WERE	'ABILENE ENERGY CENTER 115KV'	27	0.12387	-0.12264	10
WERE	'CITY OF BURLINGTON 69KV'	8	0.00605	WERE	'ABILENE ENERGY CENTER 115KV'	27	0.12387	-0.11782	10
WERE	'CITY OF ERIE 69KV'	23	0.0032	WERE	'ABILENE ENERGY CENTER 115KV'	27	0.12387	-0.12067	10
WERE	'CITY OF GIRARD 69KV'	8	0.0033	WERE	'ABILENE ENERGY CENTER 115KV'	27	0.12387	-0.12057	10
WERE	'CITY OF IOLA 69KV'	21	0.0037	WERE	'ABILENE ENERGY CENTER 115KV'	27	0.12387	-0.12017	10
WERE	'CITY OF MULVANE 69KV'	11	-0.00095	WERE	'ABILENE ENERGY CENTER 115KV'	27	0.12387	-0.12482	10
WERE	'CITY OF NEODESHA 69KV'	5	0.00234	WERE	'ABILENE ENERGY CENTER 115KV'	27	0.12387	-0.12153	10
WERE	'CITY OF WELLINGTON 69KV'	24	-0.0026	WERE	'ABILENE ENERGY CENTER 115KV'	27	0.12387	-0.12647	10

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

Reservation	Relief Amount	Aggregate Relief Amount
1090270	0.2	6
1090271	0.1	6
1090310	0.3	6
1090612	0.8	6
1090662	1.0	6
1090674	0.2	6
1090680	2.0	6
1090695	1.1	6
1090767	0.1	6

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50463	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.08674	-0.59137	10
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50463	WERE	'CHANUTE 69KV'	35	0.00262	-0.50725	11
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50463	WERE	'CITY OF AUGUSTA 69KV'	20	0.00083	-0.50546	11
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50463	WERE	'CITY OF BURLINGTON 69KV'	5	0.00499	-0.50962	11
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50463	WERE	'CITY OF ERIE 69KV'	4	0.00262	-0.50725	11
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50463	WERE	'CITY OF FREDONIA 69KV'	5	0.00208	-0.50671	11
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50463	WERE	'CITY OF IOLA 69KV'	15	0.00306	-0.50769	11
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50463	WERE	'CITY OF MULVANE 69KV'	4	-0.00104	-0.50359	11
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50463	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00242	-0.50221	11
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50463	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00499	-0.50962	11
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50463	WERE	'EVANS ENERGY CENTER 138KV'	54	0.00061	-0.50524	11
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50463	WERE	'HOLTON 115KV'	8	0.01536	-0.51999	11
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50463	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02957	-0.5342	11
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50463	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03071	-0.53534	11
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50463	WERE	'LAWRENCE ENERGY CENTER 230KV'	133	0.01929	-0.52392	11
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50463	WERE	'SMOKEY HILLS 34KV'	25	0.03114	-0.53577	11
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50463	WERE	'SOUTH SENECA 115KV'	9	0.00365	-0.50828	11
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50463	WERE	'WACO 138KV'	18	-0.00412	-0.50051	11
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.39925	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.08674	-0.48599	12
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39905	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.08674	-0.48579	12

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.39925	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02957	-0.42882	13
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.39925	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03071	-0.42996	13
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.39925	WERE	'SMOKEY HILLS 34KV'	25	0.03114	-0.43039	13
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39905	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02957	-0.42862	13
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39905	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03071	-0.42976	13
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39905	WERE	'SMOKEY HILLS 34KV'	25	0.03114	-0.43019	13
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.39925	WERE	'CHANUTE 69KV'	35	0.00262	-0.40187	14
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.39925	WERE	'CITY OF AUGUSTA 69KV'	20	0.00083	-0.40008	14
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.39925	WERE	'CITY OF BURLINGTON 69KV'	5	0.00499	-0.40424	14
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.39925	WERE	'CITY OF FREDONIA 69KV'	5	0.00208	-0.40133	14
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.39925	WERE	'CITY OF IOLA 69KV'	15	0.00306	-0.40231	14
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.39925	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00242	-0.39683	14
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.39925	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00499	-0.40424	14
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.39925	WERE	'EVANS ENERGY CENTER 138KV'	54	0.00061	-0.39986	14
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.39925	WERE	'HOLTON 115KV'	8	0.01536	-0.41461	14
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.39925	WERE	'LAWRENCE ENERGY CENTER 230KV'	133	0.01929	-0.41854	14
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.39925	WERE	'SOUTH SENECA 115KV'	9	0.00365	-0.4029	14
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.39925	WERE	'WACO 138KV'	18	-0.00412	-0.39513	14
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39905	WERE	'CHANUTE 69KV'	35	0.00262	-0.40167	14
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39905	WERE	'CITY OF AUGUSTA 69KV'	20	0.00083	-0.39988	14
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39905	WERE	'CITY OF BURLINGTON 69KV'	5	0.00499	-0.40404	14
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39905	WERE	'CITY OF FREDONIA 69KV'	5	0.00208	-0.40113	14
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39905	WERE	'CITY OF IOLA 69KV'	15	0.00306	-0.40211	14
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39905	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00242	-0.39663	14
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39905	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00499	-0.40404	14
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39905	WERE	'EVANS ENERGY CENTER 138KV'	54	0.00061	-0.39966	14
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39905	WERE	'HOLTON 115KV'	8	0.01536	-0.41441	14
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39905	WERE	'LAWRENCE ENERGY CENTER 230KV'	133	0.01929	-0.41834	14
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39905	WERE	'SOUTH SENECA 115KV'	9	0.00365	-0.4027	14
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39905	WERE	'WACO 138KV'	18	-0.00412	-0.39493	14
WERE	'ST JOHN 115KV'	8	-0.21389	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.08674	-0.30063	19
MIDW	'PAWNEE 115KV'	999	-0.21389	MIDW	'KNOLL 3 115 115KV'	9999	-0.09099	-0.1229	47
MIDW	'RICE 115KV'	999	-0.21389	MIDW	'KNOLL 3 115 115KV'	9999	-0.09099	-0.1229	47
WEPL	'A. M. MULLERGEN GENERATOR 115KV'	63	-0.17545	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	-0.11048	-0.06497	88
WERE	'GILL ENERGY CENTER 138KV'	218	-0.00466	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03071	-0.03537	162
WERE	'GILL ENERGY CENTER 138KV'	218	-0.00466	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02957	-0.03423	167
WERE	'GILL ENERGY CENTER 69KV'	118	-0.00332	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03071	-0.03403	168
WERE	'GILL ENERGY CENTER 69KV'	118	-0.00332	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02957	-0.03289	174
WERE	'EVANS ENERGY CENTER 138KV'	739	0.00061	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03071	-0.0301	190

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: WICHITA - RENO 345KV  
 Limiting Facility: NORTH AMERICAN PHILIPS - NORTH AMERICAN PHILIPS JUNCTION (SOUTH) 115KV CKT 1  
 Direction: From->To  
 Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1  
 Flowgate: 57372573741568725687312208WP  
 Date Redispatch Needed: Starting 2008 12/1 - 4/1 Until EOC  
 Season Flowgate Identified: 2008 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090270	0.2	26
1090271	0.2	26
1090310	0.3	26
1090325	1.7	26
1090327	0.4	26
1090612	0.8	26
1090662	1.0	26
1090674	0.2	26
1090680	2.0	26
1090695	1.1	26
1090747	0.3	26
1090748	0.2	26
1090756	0.3	26
1090757	0.2	26
1090816	0.4	26
1090817	0.4	26
1090826	0.6	26
1090827	0.6	26
1090828	0.4	26
1090829	0.3	26
1090839	0.6	26
1090841	0.6	26
1090853	0.4	26
1090922	9.7	26
1090923	2.2	26
1090964	0.5	26
1091053	0.1	26
1091055	0.5	26

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50453	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03066	-0.53519	48
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50453	WERE	'SMOKEY HILLS 34KV'	25	0.03122	-0.53575	48
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50453	WERE	'SMOKEYHIL 230 230KV'	72	0.03122	-0.53575	48
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50453	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0295	-0.53403	49
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50453	WERE	'LAWRENCE ENERGY CENTER 230KV'	174	0.01926	-0.52379	49
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50453	WERE	'CHANUTE 69KV'	35	0.00262	-0.50715	51
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50453	WERE	'CITY OF AUGUSTA 69KV'	20	0.00077	-0.5053	51
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50453	WERE	'CITY OF IOLA 69KV'	20	0.00308	-0.50761	51
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50453	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.0049	-0.50943	51
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50453	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00054	-0.50507	51
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50453	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00248	-0.50205	52

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50453	WERE	'WACO 138KV'	17	-0.00419	-0.50034	52
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.39912	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0295	-0.42862	60
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.39912	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03066	-0.42978	60
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.39912	WERE	'SMOKEY HILLS 34KV'	25	0.03122	-0.43034	60
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.39912	WERE	'SMOKEYHIL 230 230KV'	72	0.03122	-0.43034	60
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39873	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0295	-0.42823	60
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39873	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03066	-0.42939	60
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39873	WERE	'SMOKEY HILLS 34KV'	25	0.03122	-0.42995	60
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39873	WERE	'SMOKEYHIL 230 230KV'	72	0.03122	-0.42995	60
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.39912	WERE	'LAWRENCE ENERGY CENTER 230KV'	174	0.01926	-0.41838	62
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39873	WERE	'LAWRENCE ENERGY CENTER 230KV'	174	0.01926	-0.41799	62
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.39912	WERE	'CHANUTE 69KV'	35	0.00262	-0.40174	64
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.39912	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00054	-0.39966	65
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39873	WERE	'CHANUTE 69KV'	35	0.00262	-0.40135	65
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39873	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00054	-0.39927	65
MIDW	'PAWNEE 115KV'	999	-0.21381	MIDW	'KNOLL 3 115 115KV'	9999	-0.09075	-0.12306	211
MIDW	'RICE 115KV'	999	-0.21381	MIDW	'KNOLL 3 115 115KV'	9999	-0.09075	-0.12306	211
WERE	'EVANS ENERGY CENTER 138KV'	892	0.00054	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03066	-0.03012	860

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: WICHITA - RENO 345KV  
 Limiting Facility: NORTH AMERICAN PHILIPS - NORTH AMERICAN PHILIPS JUNCTION (SOUTH) 115KV CKT 1  
 Direction: From->To  
 Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1  
 Flowgate: 57372573741568725687312211WP  
 Date Redispatch Needed: 12/1 - 4/1 Until EOC of Upgrade Starting 2009  
 Season Flowgate Identified: 2011 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090270	0.1	17
1090271	0.1	17
1090310	0.1	17
1090325	0.6	17
1090327	0.1	17
1090329	0.9	17
1090331	0.2	17
1090332	1.3	17
1090334	0.3	17
1090377	0.1	17
1090378	0.1	17
1090380	0.1	17
1090381	0.1	17
1090382	0.1	17
1090383	0.1	17
1090385	0.1	17
1090408	0.1	17
1090411	0.1	17
1090415	0.1	17
1090417	0.1	17
1090418	0.1	17
1090612	0.2	17
1090622	0.1	17
1090623	0.1	17
1090652	0.1	17
1090655	0.1	17
1090661	0.1	17
1090662	0.2	17
1090674	0.1	17
1090676	0.1	17
1090680	0.3	17
1090695	0.2	17
1090747	0.3	17
1090748	0.1	17
1090756	0.3	17
1090757	0.1	17
1090816	0.4	17
1090817	0.4	17
1090826	0.7	17
1090827	0.7	17
1090828	0.4	17
1090829	0.3	17
1090839	0.7	17
1090841	0.7	17
1090844	0.2	17
1090845	0.2	17
1090847	0.1	17
1090852	0.2	17
1090853	0.4	17
1090854	0.1	17
1090917	0.1	17
1090919	0.1	17
1090920	0.2	17
1090921	0.1	17
1090922	0.4	17
1090923	0.1	17
1090929	0.6	17
1090930	0.1	17
1090931	0.7	17
1090932	0.2	17
1090934	0.3	17
1090935	0.1	17
1090964	0.6	17

Table 5 - 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	Redispatch Amount (MW)
	1090965	0.2	17						
	1091052	0.2	17						
	1091053	0.3	17						
	1091055	0.6	17						
	1091057	0.2	17						
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50444	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02947	-0.53391	31
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50444	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03064	-0.53508	31
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50444	WERE	'SMOKEY HILLS 34KV'	25	0.03127	-0.53571	31
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50444	WERE	'SMOKEYHIL 230 230KV'	36	0.03127	-0.53571	31
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50444	WERE	'LAWRENCE ENERGY CENTER 230KV'	171	0.01914	-0.52358	32
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50444	WERE	'TECUMSEH ENERGY CENTER 115KV'	27	0.02217	-0.52661	32
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50444	WERE	'CHANUTE 69KV'	55	0.00262	-0.50706	33
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50444	WERE	'CITY OF AUGUSTA 69KV'	20	0.0008	-0.50524	33
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50444	WERE	'CITY OF IOLA 69KV'	16	0.00308	-0.50752	33
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50444	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00246	-0.50198	33
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50444	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00055	-0.50499	33
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50444	WERE	'WACO 138KV'	18	-0.00418	-0.50026	33
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.39903	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02947	-0.4285	39
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.39903	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03064	-0.42967	39
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.39903	WERE	'SMOKEY HILLS 34KV'	25	0.03127	-0.4303	39
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.39903	WERE	'SMOKEYHIL 230 230KV'	36	0.03127	-0.4303	39
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39864	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02947	-0.42811	39
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39864	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03064	-0.42928	39
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39864	WERE	'SMOKEY HILLS 34KV'	25	0.03127	-0.42991	39
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39864	WERE	'SMOKEYHIL 230 230KV'	36	0.03127	-0.42991	39
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.39903	WERE	'LAWRENCE ENERGY CENTER 230KV'	171	0.01914	-0.41817	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.39903	WERE	'TECUMSEH ENERGY CENTER 115KV'	27	0.02217	-0.4212	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39864	WERE	'LAWRENCE ENERGY CENTER 230KV'	171	0.01914	-0.41778	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39864	WERE	'TECUMSEH ENERGY CENTER 115KV'	27	0.02217	-0.42081	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.39903	WERE	'CHANUTE 69KV'	55	0.00262	-0.40165	42
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.39903	WERE	'CITY OF AUGUSTA 69KV'	20	0.0008	-0.39983	42
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.39903	WERE	'CITY OF IOLA 69KV'	16	0.00308	-0.40211	42
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.39903	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00246	-0.39657	42
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.39903	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00055	-0.39958	42
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.39903	WERE	'WACO 138KV'	18	-0.00418	-0.39485	42
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39864	WERE	'CHANUTE 69KV'	55	0.00262	-0.40126	42
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39864	WERE	'CITY OF AUGUSTA 69KV'	20	0.0008	-0.39944	42
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39864	WERE	'CITY OF IOLA 69KV'	16	0.00308	-0.40172	42
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39864	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00246	-0.39618	42
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39864	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00055	-0.39919	42
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39864	WERE	'WACO 138KV'	18	-0.00418	-0.39446	42
MIDW	'PAWNEE 115KV'	999	-0.21367	MIDW	'KNOLL 3 115 115KV'	9999	-0.09061	-0.12306	136
MIDW	'RICE 115KV'	999	-0.21367	MIDW	'KNOLL 3 115 115KV'	9999	-0.09061	-0.12306	136
WERE	'GILL ENERGY CENTER 138KV'	218	-0.00472	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03064	-0.03536	473
WERE	'GILL ENERGY CENTER 138KV'	218	-0.00472	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02947	-0.03419	489
WERE	'EVANS ENERGY CENTER 138KV'	892	0.00055	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03064	-0.03009	556

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: WICHITA - RENO 345KV  
 Limiting Facility: NORTH AMERICAN PHILIPS - NORTH AMERICAN PHILIPS JUNCTION (SOUTH) 115KV CKT 1  
 Direction: From->To  
 Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1  
 Flowgate: 57372573741568725687314207SH  
 Date Redispatch Needed: 6/1 - 10/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Summer Shoulder

Reservation	Relief Amount	Aggregate Relief Amount
1090270	0.1	4
1090271	0.1	4
1090310	0.3	4
1090662	1.2	4
1090674	0.2	4
1090680	1.6	4
1090695	0.9	4
1090767	0.1	4

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50466	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.11717	-0.62183	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50466	WERE	'CLAY CENTER JUNCTION 115KV'	12	0.08672	-0.59138	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50466	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02955	-0.53421	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50466	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03069	-0.53535	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50466	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.02225	-0.52691	8
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50466	WERE	'CHANUTE 69KV'	47	0.00261	-0.50727	9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50466	WERE	'CITY OF AUGUSTA 69KV'	20	0.00081	-0.50547	9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50466	WERE	'CITY OF BURLINGTON 69KV'	5	0.00497	-0.50963	9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50466	WERE	'CITY OF ERIE 69KV'	24	0.00261	-0.50727	9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50466	WERE	'CITY OF FREDONIA 69KV'	10	0.00206	-0.50672	9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50466	WERE	'CITY OF IOLA 69KV'	20	0.00304	-0.5077	9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50466	WERE	'CITY OF MULVANE 69KV'	6	-0.00106	-0.5036	9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50466	WERE	'CITY OF WELLINGTON 69KV'	36	-0.00244	-0.50222	9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50466	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00497	-0.50963	9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50466	WERE	'EVANS ENERGY CENTER 138KV'	305	0.00059	-0.50525	9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50466	WERE	'GILL ENERGY CENTER 138KV'	155	-0.00468	-0.49998	9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50466	WERE	'HOLTON 115KV'	16	0.01534	-0.52	9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50466	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.01833	-0.52299	9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50466	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.01927	-0.52393	9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50466	WERE	'SOUTH SENECA 115KV'	13	0.00362	-0.50828	9
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50466	WERE	'WACO 138KV'	18	-0.00414	-0.50052	9

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.39927	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.11717	-0.51644	9
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.39927	WERE	'CLAY CENTER JUNCTION 115KV'	12	0.08672	-0.48599	9
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39908	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.11717	-0.51625	9
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39908	WERE	'CLAY CENTER JUNCTION 115KV'	12	0.08672	-0.4858	9
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.39927	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02955	-0.42882	10
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.39927	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03069	-0.42996	10
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39908	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02955	-0.42863	10
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39908	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03069	-0.42977	10
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.39927	WERE	'CHANUTE 69KV'	47	0.00261	-0.40188	11
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.39927	WERE	'CITY OF AUGUSTA 69KV'	20	0.00081	-0.40008	11
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.39927	WERE	'CITY OF BURLINGTON 69KV'	5	0.00497	-0.40424	11
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.39927	WERE	'CITY OF ERIE 69KV'	24	0.00261	-0.40188	11
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.39927	WERE	'CITY OF FREDONIA 69KV'	10	0.00206	-0.40133	11
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.39927	WERE	'CITY OF IOLA 69KV'	20	0.00304	-0.40231	11
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.39927	WERE	'CITY OF MULVANE 69KV'	6	-0.00106	-0.39821	11
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.39927	WERE	'CITY OF WELLINGTON 69KV'	36	-0.00244	-0.39683	11
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.39927	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00497	-0.40424	11
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.39927	WERE	'EVANS ENERGY CENTER 138KV'	305	0.00059	-0.39986	11
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.39927	WERE	'GILL ENERGY CENTER 138KV'	155	-0.00468	-0.39459	11
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.39927	WERE	'HOLTON 115KV'	16	0.01534	-0.41461	11
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.39927	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.01833	-0.4176	11
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.39927	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.01927	-0.41854	11
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.39927	WERE	'SOUTH SENECA 115KV'	13	0.00362	-0.40289	11
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.39927	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.02225	-0.42152	11
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.39927	WERE	'WACO 138KV'	18	-0.00414	-0.39513	11
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39908	WERE	'CHANUTE 69KV'	47	0.00261	-0.40169	11
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39908	WERE	'CITY OF AUGUSTA 69KV'	20	0.00081	-0.39989	11
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39908	WERE	'CITY OF BURLINGTON 69KV'	5	0.00497	-0.40405	11
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39908	WERE	'CITY OF ERIE 69KV'	24	0.00261	-0.40169	11
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39908	WERE	'CITY OF FREDONIA 69KV'	10	0.00206	-0.40114	11
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39908	WERE	'CITY OF IOLA 69KV'	20	0.00304	-0.40212	11
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39908	WERE	'CITY OF MULVANE 69KV'	6	-0.00106	-0.39802	11
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39908	WERE	'CITY OF WELLINGTON 69KV'	36	-0.00244	-0.39683	11
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39908	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00497	-0.40405	11
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39908	WERE	'EVANS ENERGY CENTER 138KV'	305	0.00059	-0.39967	11
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39908	WERE	'GILL ENERGY CENTER 138KV'	155	-0.00468	-0.3944	11
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39908	WERE	'HOLTON 115KV'	16	0.01534	-0.41442	11
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39908	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.01833	-0.41741	11
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39908	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.01927	-0.41835	11
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39908	WERE	'SOUTH SENECA 115KV'	13	0.00362	-0.4027	11
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39908	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.02225	-0.42133	11
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39908	WERE	'WACO 138KV'	18	-0.00414	-0.39494	11
WERE	'ST JOHN 115KV'	8	-0.21392	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.11717	-0.33109	13
WERE	'ST JOHN 115KV'	8	-0.21392	WERE	'CLAY CENTER JUNCTION 115KV'	12	0.08672	-0.30064	15
WERE	'ST JOHN 115KV'	8	-0.21392	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02955	-0.24347	18
WERE	'ST JOHN 115KV'	8	-0.21392	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03069	-0.24461	18
WERE	'ST JOHN 115KV'	8	-0.21392	WERE	'HOLTON 115KV'	16	0.01534	-0.22926	19
WERE	'ST JOHN 115KV'	8	-0.21392	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.01833	-0.23225	19
WERE	'ST JOHN 115KV'	8	-0.21392	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.01927	-0.23319	19
WERE	'ST JOHN 115KV'	8	-0.21392	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.02225	-0.23617	19
WERE	'ST JOHN 115KV'	8	-0.21392	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00497	-0.21889	20
WERE	'ST JOHN 115KV'	8	-0.21392	WERE	'CHANUTE 69KV'	47	0.00261	-0.21653	21
WERE	'ST JOHN 115KV'	8	-0.21392	WERE	'CITY OF AUGUSTA 69KV'	20	0.00081	-0.21473	21
WERE	'ST JOHN 115KV'	8	-0.21392	WERE	'CITY OF ERIE 69KV'	24	0.00261	-0.21653	21
WERE	'ST JOHN 115KV'	8	-0.21392	WERE	'CITY OF FREDONIA 69KV'	10	0.00206	-0.21598	21
WERE	'ST JOHN 115KV'	8	-0.21392	WERE	'CITY OF IOLA 69KV'	20	0.00304	-0.21696	21
WERE	'ST JOHN 115KV'	8	-0.21392	WERE	'CITY OF WELLINGTON 69KV'	36	-0.00244	-0.21148	21
WERE	'ST JOHN 115KV'	8	-0.21392	WERE	'EVANS ENERGY CENTER 138KV'	305	0.00059	-0.21451	21
WERE	'ST JOHN 115KV'	8	-0.21392	WERE	'GILL ENERGY CENTER 138KV'	155	-0.00468	-0.20924	21
WERE	'ST JOHN 115KV'	8	-0.21392	WERE	'SOUTH SENECA 115KV'	13	0.00362	-0.21754	21
WERE	'ST JOHN 115KV'	8	-0.21392	WERE	'WACO 138KV'	18	-0.00414	-0.20978	21
MIDW	'PAWNEE 115KV'	999	-0.21392	MIDW	'KNOLL 3 115 115KV'	9999	-0.09103	-0.12289	36
MIDW	'RICE 115KV'	999	-0.21392	MIDW	'KNOLL 3 115 115KV'	9999	-0.09103	-0.12289	36
WERE	'GILL ENERGY CENTER 138KV'	18	-0.00468	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.11717	-0.12185	37
WERE	'GILL ENERGY CENTER 69KV'	118	-0.00334	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.11717	-0.12051	37
WERE	'CITY OF WINFIELD 69KV'	40	-0.00139	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.11717	-0.11856	38
WERE	'EVANS ENERGY CENTER 138KV'	348	0.00059	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.11717	-0.11658	38
WERE	'GETTY 69KV'	35	0.00121	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.11717	-0.11596	38
WERE	'CHANUTE 69KV'	41	0.00261	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.11717	-0.11456	39
WERE	'CITY OF IOLA 69KV'	18	0.00304	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.11717	-0.11413	39
WERE	'LATHAM1234.0 345KV'	150	0.00237	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.11717	-0.1148	39
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.00254	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.11717	-0.11463	39
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50466	WERE	'HUTCHINSON ENERGY CENTER 115KV'	92	-0.39927	-0.10539	42
WERE	'HOLTON 115KV'	17	0.01534	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.11717	-0.10183	44
WERE	'LAWRENCE ENERGY CENTER 115KV'	78	0.01833	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.11717	-0.09884	45
WERE	'LAWRENCE ENERGY CENTER 230KV'	35	0.01927	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.11717	-0.0979	46
WERE	'TECUMSEH ENERGY CENTER 115KV'	53	0.02225	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.11717	-0.09492	47
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	0.02266	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.11717	-0.09451	47
WERE	'JEFFREY ENERGY CENTER 230KV'	24	0.02955	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.11717	-0.08762	51

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: WICHITA - RENO 345KV  
 Limiting Facility: NORTH AMERICAN PHILIPS JUNCTION (SOUTH) - WEST MCPHERSON 115KV CKT 1  
 Direction: From->To  
 Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1  
 Flowgate: 57374574381568725687312206FA  
 Date Redispatch Needed: 10/1/06 - 12/1/06  
 Season Flowgate Identified: 2006 Fall Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090662	0.6	1

Table 5 - 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	Redispatch Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24274	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.05759	-0.30033	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24274	WERE	'CHANUTE 69KV'	40	0.00146	-0.2442	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24274	WERE	'CITY OF AUGUSTA 69KV'	19	0.00052	-0.24326	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24274	WERE	'CITY OF BURLINGTON 69KV'	5	0.00278	-0.24552	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24274	WERE	'CITY OF ERIE 69KV'	24	0.00146	-0.2442	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24274	WERE	'CITY OF GIRARD 69KV'	5	0.00151	-0.24425	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24274	WERE	'CITY OF IOLA 69KV'	16	0.0017	-0.24444	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24274	WERE	'CITY OF MULVANE 69KV'	5	-0.00051	-0.24223	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24274	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00127	-0.24147	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24274	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00278	-0.24552	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24274	WERE	'EVANS ENERGY CENTER 138KV'	305	0.0004	-0.24314	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24274	WERE	'GILL ENERGY CENTER 138KV'	105	-0.00247	-0.24027	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24274	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01612	-0.25886	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24274	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01673	-0.25947	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24274	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.01007	-0.25281	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24274	WERE	'LAWRENCE ENERGY CENTER 230KV'	232	0.01056	-0.2533	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24274	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.01215	-0.25489	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24274	WERE	'WACO 138KV'	18	-0.00218	-0.24056	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19668	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.05759	-0.25427	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	67	-0.19659	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.05759	-0.25418	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19668	WERE	'CHANUTE 69KV'	40	0.00146	-0.19814	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19668	WERE	'CITY OF AUGUSTA 69KV'	19	0.00052	-0.1972	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19668	WERE	'CITY OF BURLINGTON 69KV'	5	0.00278	-0.19946	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19668	WERE	'CITY OF ERIE 69KV'	24	0.00146	-0.19814	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19668	WERE	'CITY OF GIRARD 69KV'	5	0.00151	-0.19819	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19668	WERE	'CITY OF IOLA 69KV'	16	0.0017	-0.19838	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19668	WERE	'CITY OF MULVANE 69KV'	5	-0.00051	-0.19617	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19668	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00127	-0.19541	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19668	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00278	-0.19946	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19668	WERE	'EVANS ENERGY CENTER 138KV'	305	0.0004	-0.19708	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19668	WERE	'GILL ENERGY CENTER 138KV'	105	-0.00247	-0.19421	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19668	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01612	-0.2128	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19668	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01673	-0.21341	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19668	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.01007	-0.20675	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19668	WERE	'LAWRENCE ENERGY CENTER 230KV'	232	0.01056	-0.20724	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19668	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.01215	-0.20883	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19668	WERE	'WACO 138KV'	18	-0.00218	-0.1945	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19659	WERE	'CHANUTE 69KV'	40	0.00146	-0.19805	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19659	WERE	'CITY OF AUGUSTA 69KV'	19	0.00052	-0.19711	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19659	WERE	'CITY OF BURLINGTON 69KV'	5	0.00278	-0.19937	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19659	WERE	'CITY OF ERIE 69KV'	24	0.00146	-0.19805	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19659	WERE	'CITY OF GIRARD 69KV'	5	0.00151	-0.1981	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19659	WERE	'CITY OF IOLA 69KV'	16	0.0017	-0.19829	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19659	WERE	'CITY OF MULVANE 69KV'	5	-0.00051	-0.19608	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19659	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00127	-0.19532	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19659	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00278	-0.19937	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19659	WERE	'EVANS ENERGY CENTER 138KV'	305	0.0004	-0.19699	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19659	WERE	'GILL ENERGY CENTER 138KV'	105	-0.00247	-0.19412	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19659	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01612	-0.21271	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19659	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01673	-0.21332	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19659	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.01007	-0.20666	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19659	WERE	'LAWRENCE ENERGY CENTER 230KV'	232	0.01056	-0.20715	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19659	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.01215	-0.20874	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19659	WERE	'WACO 138KV'	18	-0.00218	-0.19441	3
WERE	'ST JOHN 115KV'	8	-0.11404	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.05759	-0.17163	3
WERE	'ST JOHN 115KV'	8	-0.11404	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01612	-0.13016	4
WERE	'ST JOHN 115KV'	8	-0.11404	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01673	-0.13077	4
WERE	'ST JOHN 115KV'	8	-0.11404	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.01007	-0.12411	4
WERE	'ST JOHN 115KV'	8	-0.11404	WERE	'LAWRENCE ENERGY CENTER 230KV'	232	0.01056	-0.1246	4
WERE	'ST JOHN 115KV'	8	-0.11404	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.01215	-0.12619	4
WERE	'ST JOHN 115KV'	8	-0.11404	WERE	'CHANUTE 69KV'	40	0.00146	-0.1155	5
WERE	'ST JOHN 115KV'	8	-0.11404	WERE	'CITY OF AUGUSTA 69KV'	19	0.00052	-0.11456	5
WERE	'ST JOHN 115KV'	8	-0.11404	WERE	'CITY OF BURLINGTON 69KV'	5	0.00278	-0.11682	5
WERE	'ST JOHN 115KV'	8	-0.11404	WERE	'CITY OF ERIE 69KV'	24	0.00146	-0.1155	5
WERE	'ST JOHN 115KV'	8	-0.11404	WERE	'CITY OF GIRARD 69KV'	5	0.00151	-0.11555	5
WERE	'ST JOHN 115KV'	8	-0.11404	WERE	'CITY OF IOLA 69KV'	16	0.0017	-0.11574	5
WERE	'ST JOHN 115KV'	8	-0.11404	WERE	'CITY OF MULVANE 69KV'	5	-0.00051	-0.11353	5
WERE	'ST JOHN 115KV'	8	-0.11404	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00127	-0.11277	5
WERE	'ST JOHN 115KV'	8	-0.11404	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00278	-0.11682	5
WERE	'ST JOHN 115KV'	8	-0.11404	WERE	'EVANS ENERGY CENTER 138KV'	305	0.0004	-0.11444	5
WERE	'ST JOHN 115KV'	8	-0.11404	WERE	'GILL ENERGY CENTER 138KV'	105	-0.00247	-0.11157	5
WERE	'ST JOHN 115KV'	8	-0.11404	WERE	'WACO 138KV'	18	-0.00218	-0.11186	5
MIDW	'PAWNEE 115KV'	999	-0.11404	MIDW	'KNOLL 3 115 115KV'	9999	-0.01527	-0.09877	6
MIDW	'RICE 115KV'	999	-0.11404	MIDW	'KNOLL 3 115 115KV'	9999	-0.01527	-0.09877	6
MIDW	'GREAT BEND PLANT 69KV'	10	-0.09662	MIDW	'KNOLL 3 115 115KV'	9999	-0.01527	-0.08135	7
MIDW	'PAWNEE 115KV'	999	-0.11404	MIDW	'COLBY 115KV'	11	-0.03465	-0.07939	7
MIDW	'RICE 115KV'	999	-0.11404	MIDW	'COLBY 115KV'	11	-0.03465	-0.07939	7
WERE	'CITY OF WELLINGTON 69KV'	24	-0.00127	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.05759	-0.05886	9
WERE	'GILL ENERGY CENTER 138KV'	68	-0.00247	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.05759	-0.06006	9
WERE	'GILL ENERGY CENTER 69KV'	118	-0.00174	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.05759	-0.05933	9
MIDW	'GREAT BEND PLANT 69KV'	10	-0.09662	MIDW	'COLBY 115KV'	11	-0.03465	-0.06197	9
WERE	'BROWN COUNTY 115KV'	6	0.00325	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.05759	-0.05434	10
WERE	'CHANUTE 69KV'	48	0.00146	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.05759	-0.05613	10
WERE	'CITY OF AUGUSTA 69KV'	8	0.00052	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.05759	-0.05707	10
WERE	'CITY OF BURLINGTON 69KV'	8	0.00278	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.05759	-0.05481	10
WERE	'CITY OF FREDONIA 69KV'	10	0.00116	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.05759	-0.05643	10
WERE	'CITY OF GIRARD 69KV'	6	0.00151	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.05759	-0.05608	10
WERE	'CITY OF IOLA 69KV'	21	0.0017	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.05759	-0.05589	10
WERE	'CITY OF MULVANE 69KV'	11	-0.00051	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.05759	-0.0581	10
WERE	'CITY OF NEODESHA 69KV'	5	0.00106	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.05759	-0.05653	10
WERE	'CITY OF WINFIELD 69KV'	40	-0.00074	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.05759	-0.05833	10
WERE	'EVANS ENERGY CENTER 138KV'	488	0.0004	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.05759	-0.05719	10
WERE	'GETTY 69KV'	35	0.00074	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.05759	-0.05685	10

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'LATHAM1234.0 345KV'	150	0.00135	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.05759	-0.05624	10
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.00142	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.05759	-0.05617	10
WERE	'SOUTH SENECA 115KV'	20	0.00273	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.05759	-0.05486	10
WERE	'CITY OF OSAGE CITY 115KV'	11	0.00654	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.05759	-0.05105	11
WERE	'HOLTON 115KV'	33	0.00858	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.05759	-0.04901	11
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24274	WERE	'HUTCHINSON ENERGY CENTER 115KV'	80	-0.19668	-0.04606	12
WERE	'LAWRENCE ENERGY CENTER 115KV'	78	0.01007	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.05759	-0.04752	12

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: WICHITA - RENO 345KV  
 Limiting Facility: NORTH AMERICAN PHILIPS JUNCTION (SOUTH) - WEST MCPHERSON 115KV CKT 1  
 Direction: From->To  
 Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1  
 Flowgate: 57374574381568725687312207FA  
 Date Redispatch Needed: Starting 2007 10/1 - 12/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Fall Peak

Reservation	Relief Amount	Aggregate Relief Amount	Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
1090662		0.5	WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23469	WERE	'CHANUTE 69KV'	56	0.0012	-0.23589	2
1090674		0.1	WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23469	WERE	'CITY OF AUGUSTA 69KV'	20	0.00037	-0.23506	2
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23469	WERE	'CITY OF BURLINGTON 69KV'	5	0.0023	-0.23699	2
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23469	WERE	'CITY OF ERIE 69KV'	4	0.0012	-0.23589	2
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23469	WERE	'CITY OF FREDONIA 69KV'	5	0.00095	-0.23564	2
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23469	WERE	'CITY OF GIRARD 69KV'	2	0.00125	-0.23594	2
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23469	WERE	'CITY OF IOLA 69KV'	24	0.00141	-0.23611	2
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23469	WERE	'CITY OF MULVANE 69KV'	5	-0.0005	-0.23419	2
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23469	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00114	-0.23355	2
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23469	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04031	-0.275	2
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23469	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.0023	-0.23699	2
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23469	WERE	'EVANS ENERGY CENTER 138KV'	131	0.00026	-0.23495	2
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23469	WERE	'HOLTON 115KV'	8	0.00712	-0.24181	2
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23469	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01373	-0.24842	2
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23469	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01426	-0.24895	2
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23469	WERE	'LAWRENCE ENERGY CENTER 230KV'	233	0.00895	-0.24364	2
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23469	WERE	'SMOKEY HILLS 34KV'	25	0.01445	-0.24914	2
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23469	WERE	'SOUTH SENECA 115KV'	9	0.00166	-0.23635	2
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23469	WERE	'TECUMSEH ENERGY CENTER 115KV'	88	0.01033	-0.24502	2
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23469	WERE	'WACO 138KV'	18	-0.00194	-0.23275	2
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.18569	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04031	-0.226	2
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.1856	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04031	-0.22591	2
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.18569	WERE	'CHANUTE 69KV'	56	0.0012	-0.18689	3
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.18569	WERE	'CITY OF AUGUSTA 69KV'	20	0.00037	-0.18606	3
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.18569	WERE	'CITY OF BURLINGTON 69KV'	5	0.0023	-0.18799	3
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.18569	WERE	'CITY OF ERIE 69KV'	4	0.0012	-0.18689	3
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.18569	WERE	'CITY OF FREDONIA 69KV'	5	0.00095	-0.18664	3
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.18569	WERE	'CITY OF GIRARD 69KV'	2	0.00125	-0.18694	3
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.18569	WERE	'CITY OF IOLA 69KV'	24	0.00141	-0.1871	3
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.18569	WERE	'CITY OF MULVANE 69KV'	5	-0.0005	-0.18519	3
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.18569	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00114	-0.18455	3
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.18569	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.0023	-0.18799	3
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.18569	WERE	'EVANS ENERGY CENTER 138KV'	131	0.00026	-0.18595	3
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.18569	WERE	'HOLTON 115KV'	8	0.00712	-0.19281	3
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.18569	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01373	-0.19942	3
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.18569	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01426	-0.19995	3
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.18569	WERE	'LAWRENCE ENERGY CENTER 230KV'	233	0.00895	-0.19464	3
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.18569	WERE	'SMOKEY HILLS 34KV'	25	0.01445	-0.20014	3
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.18569	WERE	'SOUTH SENECA 115KV'	9	0.00166	-0.18735	3
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.18569	WERE	'TECUMSEH ENERGY CENTER 115KV'	88	0.01033	-0.19602	3
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.18569	WERE	'WACO 138KV'	18	-0.00194	-0.18375	3
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.1856	WERE	'CHANUTE 69KV'	56	0.0012	-0.1868	3
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.1856	WERE	'CITY OF AUGUSTA 69KV'	20	0.00037	-0.18597	3
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.1856	WERE	'CITY OF BURLINGTON 69KV'	5	0.0023	-0.1879	3
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.1856	WERE	'CITY OF ERIE 69KV'	4	0.0012	-0.1868	3
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.1856	WERE	'CITY OF FREDONIA 69KV'	5	0.00095	-0.18655	3
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.1856	WERE	'CITY OF GIRARD 69KV'	2	0.00125	-0.18685	3
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.1856	WERE	'CITY OF IOLA 69KV'	24	0.00141	-0.18701	3
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.1856	WERE	'CITY OF MULVANE 69KV'	5	-0.0005	-0.1851	3
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.1856	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00114	-0.18446	3
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.1856	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.0023	-0.1879	3
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.1856	WERE	'EVANS ENERGY CENTER 138KV'	131	0.00026	-0.18586	3
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.1856	WERE	'HOLTON 115KV'	8	0.00712	-0.19272	3
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.1856	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01373	-0.19933	3
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.1856	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01426	-0.19986	3
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.1856	WERE	'LAWRENCE ENERGY CENTER 230KV'	233	0.00895	-0.19455	3
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.1856	WERE	'SMOKEY HILLS 34KV'	25	0.01445	-0.20005	3
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.1856	WERE	'SOUTH SENECA 115KV'	9	0.00166	-0.18726	3
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.1856	WERE	'TECUMSEH ENERGY CENTER 115KV'	88	0.01033	-0.19593	3
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.1856	WERE	'WACO 138KV'	18	-0.00194	-0.18366	3
			WERE	'ST JOHN 115KV'	8	-0.09949	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04031	-0.1398	4
			WERE	'ST JOHN 115KV'	8	-0.09949	WERE	'CITY OF BURLINGTON 69KV'	5	0.0023	-0.10179	5
			WERE	'ST JOHN 115KV'	8	-0.09949	WERE	'CITY OF IOLA 69KV'	24	0.00141	-0.1009	5
			WERE	'ST JOHN 115KV'	8	-0.09949	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.0023	-0.10179	5
			WERE	'ST JOHN 115KV'	8	-0.09949	WERE	'HOLTON 115KV'	8	0.00712	-0.10661	5
			WERE	'ST JOHN 115KV'	8	-0.09949	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01373	-0.11322	5
			WERE	'ST JOHN 115KV'	8	-0.09949	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01426	-0.11375	5
			WERE	'ST JOHN 115KV'	8	-0.09949	WERE	'LAWRENCE ENERGY CENTER 230KV'	233	0.00895	-0.10844	5
			WERE	'ST JOHN 115KV'	8	-0.09949	WERE	'SMOKEY HILLS 34KV'	25	0.01445	-0.11394	5

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'ST JOHN 115KV'	8	-0.09949	WERE	'SOUTH SENECA 115KV'	9	0.00166	-0.10115	5
WERE	'ST JOHN 115KV'	8	-0.09949	WERE	'TECUMSEH ENERGY CENTER 115KV'	88	0.01033	-0.10982	5
WERE	'ST JOHN 115KV'	8	-0.09949	WERE	'CHANUTE 69KV'	56	0.0012	-0.10069	6
WERE	'ST JOHN 115KV'	8	-0.09949	WERE	'CITY OF AUGUSTA 69KV'	20	0.00037	-0.09986	6
WERE	'ST JOHN 115KV'	8	-0.09949	WERE	'CITY OF ERIE 69KV'	4	0.0012	-0.10069	6
WERE	'ST JOHN 115KV'	8	-0.09949	WERE	'CITY OF FREDONIA 69KV'	5	0.00095	-0.10044	6
WERE	'ST JOHN 115KV'	8	-0.09949	WERE	'CITY OF MULVANE 69KV'	5	-0.0005	-0.09899	6
WERE	'ST JOHN 115KV'	8	-0.09949	WERE	'CITY OF WELLINGTON 69KV'	20	-0.0114	-0.09835	6
WERE	'ST JOHN 115KV'	8	-0.09949	WERE	'EVANS ENERGY CENTER 138KV'	131	0.00026	-0.09975	6
WERE	'ST JOHN 115KV'	8	-0.09949	WERE	'WACO 138KV'	18	-0.00194	-0.09755	6
MIDW	'PAWNEE 115KV'	999	-0.09949	MIDW	'COLBY 115KV'	10	-0.03448	-0.06501	9
MIDW	'RICE 115KV'	999	-0.09949	MIDW	'COLBY 115KV'	10	-0.03448	-0.06501	9
WEPL	'A. M. MULLERGEN GENERATOR 115KV'	63	-0.08162	WEPL	'HARPER 138KV'	15	-0.02712	-0.0545	10
WEPL	'NORTH WEST GREAT BEND 115KV'	14	-0.08162	WEPL	'HARPER 138KV'	15	-0.02712	-0.0545	10
MIDW	'PAWNEE 115KV'	999	-0.09949	MIDW	'KNOLL 3 115 115KV'	9999	-0.04234	-0.05715	10
MIDW	'RICE 115KV'	999	-0.09949	MIDW	'KNOLL 3 115 115KV'	9999	-0.04234	-0.05715	10
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23469	WERE	'HUTCHINSON ENERGY CENTER 115KV'	40	-0.18569	-0.049	11
MIDW	'GREAT BEND PLANT 69KV'	10	-0.08369	MIDW	'COLBY 115KV'	10	-0.03448	-0.04921	11
WERE	'CITY OF WELLINGTON 69KV'	24	-0.00114	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04031	-0.04145	13
WERE	'GILL ENERGY CENTER 138KV'	218	-0.00219	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04031	-0.0425	13
WERE	'GILL ENERGY CENTER 69KV'	118	-0.00156	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04031	-0.04187	13
MIDW	'GREAT BEND PLANT 69KV'	10	-0.08369	MIDW	'KNOLL 3 115 115KV'	9999	-0.04234	-0.04135	13
WERE	'CHANUTE 69KV'	32	0.0012	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04031	-0.03911	14
WERE	'CITY OF AUGUSTA 69KV'	7	0.00037	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04031	-0.03994	14
WERE	'CITY OF ERIE 69KV'	23	0.0012	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04031	-0.03911	14
WERE	'CITY OF FREDONIA 69KV'	5	0.00095	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04031	-0.03936	14
WERE	'CITY OF GIRARD 69KV'	9	0.00125	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04031	-0.03906	14
WERE	'CITY OF IOLA 69KV'	13	0.00141	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04031	-0.0389	14
WERE	'CITY OF MULVANE 69KV'	11	-0.0005	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04031	-0.04081	14
WERE	'CITY OF WINFIELD 69KV'	40	-0.00066	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04031	-0.04097	14
WERE	'EVANS ENERGY CENTER 138KV'	662	0.00026	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04031	-0.04005	14

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: WICHITA - RENO 345KV  
 Limiting Facility: NORTH AMERICAN PHILIPS JUNCTION (SOUTH) - WEST MCPHERSON 115KV CKT 1  
 Direction: From->To  
 Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1  
 Flowgate: 57374574381568725687312207G  
 Date Redispatch Needed: Starting 2007 4/1 - 6/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Spring Peak

Reservation	Relief Amount	Aggregate Relief Amount			Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Redispatch Amount(MW)
1090662	0.5	1	WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	'6TH STREET 115KV'	1	0.01001	-0.25246	3
1090674	0.1	1	WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	'ABILENE ENERGY CENTER 115KV'	27	0.0576	-0.30005	3
1090808	0.2	1	WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	'CHANUTE 69KV'	40	0.00149	-0.24394	3
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	'CITY OF AUGUSTA 69KV'	20	0.00057	-0.24302	3
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	'CITY OF BURLINGTON 69KV'	5	0.00281	-0.24526	3
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	'CITY OF ERIE 69KV'	4	0.00149	-0.24394	3
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	'CITY OF FREDONIA 69KV'	10	0.00119	-0.24364	3
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	'CITY OF GIRARD 69KV'	3	0.00153	-0.24398	3
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	'CITY OF IOLA 69KV'	17	0.00172	-0.24417	3
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	'CITY OF MULVANE 69KV'	5	-0.00044	-0.24201	3
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00121	-0.24124	3
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00281	-0.24526	3
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	'EVANS ENERGY CENTER 138KV'	305	0.00045	-0.2429	3
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00238	-0.24007	3
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	'HOLTON 115KV'	13	0.00862	-0.25107	3
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01615	-0.2586	3
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01674	-0.25919	3
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.01004	-0.25249	3
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.01055	-0.253	3
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	'TECUMSEH ENERGY CENTER 115KV'	68	0.01215	-0.2546	3
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	'WACO 138KV'	18	-0.00209	-0.24036	3
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19626	WERE	'ABILENE ENERGY CENTER 115KV'	27	0.0576	-0.25386	3
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	'ABILENE ENERGY CENTER 115KV'	27	0.0576	-0.25377	3
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19626	WERE	'CHANUTE 69KV'	40	0.00149	-0.19775	4
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19626	WERE	'CITY OF AUGUSTA 69KV'	20	0.00057	-0.19683	4
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19626	WERE	'CITY OF BURLINGTON 69KV'	5	0.00281	-0.19907	4
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19626	WERE	'CITY OF ERIE 69KV'	4	0.00149	-0.19775	4
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19626	WERE	'CITY OF FREDONIA 69KV'	10	0.00119	-0.19745	4
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19626	WERE	'CITY OF GIRARD 69KV'	3	0.00153	-0.19779	4
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19626	WERE	'CITY OF IOLA 69KV'	17	0.00172	-0.19798	4
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19626	WERE	'CITY OF MULVANE 69KV'	5	-0.00044	-0.19582	4
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19626	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00121	-0.19505	4
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19626	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00281	-0.19907	4
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19626	WERE	'EVANS ENERGY CENTER 138KV'	305	0.00045	-0.19671	4
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19626	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00238	-0.19388	4
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19626	WERE	'HOLTON 115KV'	13	0.00862	-0.20488	4
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19626	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01615	-0.21241	4
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19626	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01674	-0.213	4
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19626	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.01004	-0.2063	4
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19626	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.01055	-0.20681	4
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19626	WERE	'TECUMSEH ENERGY CENTER 115KV'	68	0.01215	-0.20841	4
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.19626	WERE	'WACO 138KV'	18	-0.00209	-0.19417	4
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	'CHANUTE 69KV'	40	0.00149	-0.19766	4
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	'CITY OF AUGUSTA 69KV'	20	0.00057	-0.19674	4



Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	'CITY OF BURLINGTON 69KV'	5	0.00281	-0.19898	4
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	'CITY OF ERIE 69KV'	4	0.00149	-0.19766	4
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	'CITY OF FREDONIA 69KV'	10	0.00119	-0.19736	4
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	'CITY OF GIRARD 69KV'	3	0.00153	-0.1977	4
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	'CITY OF IOLA 69KV'	17	0.00172	-0.19789	4
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	'CITY OF MULVANE 69KV'	5	-0.00044	-0.19573	4
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00121	-0.19496	4
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00281	-0.19898	4
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	'EVANS ENERGY CENTER 138KV'	305	0.00045	-0.19662	4
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00238	-0.19379	4
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	'HOLTON 115KV'	13	0.00862	-0.20479	4
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01615	-0.21232	4
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01674	-0.21291	4
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.01004	-0.20621	4
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.01055	-0.20672	4
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	'TECUMSEH ENERGY CENTER 115KV'	68	0.01215	-0.20832	4
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	'WACO 138KV'	18	-0.00209	-0.19408	4
WERE	'ST JOHN 115KV'	8	-0.11208	WERE	'ABILENE ENERGY CENTER 115KV'	27	0.0576	-0.16968	5
WERE	'ST JOHN 115KV'	8	-0.11208	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01615	-0.12823	6
WERE	'ST JOHN 115KV'	8	-0.11208	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01674	-0.12882	6
WERE	'ST JOHN 115KV'	8	-0.11208	WERE	'TECUMSEH ENERGY CENTER 115KV'	68	0.01215	-0.12423	6
WERE	'ST JOHN 115KV'	8	-0.11208	WERE	'CHANUTE 69KV'	40	0.00149	-0.11357	7
WERE	'ST JOHN 115KV'	8	-0.11208	WERE	'CITY OF AUGUSTA 69KV'	20	0.00057	-0.11265	7
WERE	'ST JOHN 115KV'	8	-0.11208	WERE	'CITY OF BURLINGTON 69KV'	5	0.00281	-0.11489	7
WERE	'ST JOHN 115KV'	8	-0.11208	WERE	'CITY OF ERIE 69KV'	4	0.00149	-0.11357	7
WERE	'ST JOHN 115KV'	8	-0.11208	WERE	'CITY OF FREDONIA 69KV'	10	0.00119	-0.11327	7
WERE	'ST JOHN 115KV'	8	-0.11208	WERE	'CITY OF GIRARD 69KV'	3	0.00153	-0.11361	7
WERE	'ST JOHN 115KV'	8	-0.11208	WERE	'CITY OF IOLA 69KV'	17	0.00172	-0.1138	7
WERE	'ST JOHN 115KV'	8	-0.11208	WERE	'CITY OF MULVANE 69KV'	5	-0.00044	-0.11164	7
WERE	'ST JOHN 115KV'	8	-0.11208	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00121	-0.11087	7
WERE	'ST JOHN 115KV'	8	-0.11208	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00281	-0.11489	7
WERE	'ST JOHN 115KV'	8	-0.11208	WERE	'EVANS ENERGY CENTER 138KV'	305	0.00045	-0.11253	7
WERE	'ST JOHN 115KV'	8	-0.11208	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00238	-0.1097	7
WERE	'ST JOHN 115KV'	8	-0.11208	WERE	'HOLTON 115KV'	13	0.00862	-0.1207	7
WERE	'ST JOHN 115KV'	8	-0.11208	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.01004	-0.12212	7
WERE	'ST JOHN 115KV'	8	-0.11208	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.01055	-0.12263	7
WERE	'ST JOHN 115KV'	8	-0.11208	WERE	'WACO 138KV'	18	-0.00209	-0.10999	7
MIDW	'PAWNEE 115KV'	999	-0.11208	MIDW	'KNOLL 3 115 115KV'	9999	-0.01656	-0.09552	8
MIDW	'RICE 115KV'	999	-0.11208	MIDW	'KNOLL 3 115 115KV'	9999	-0.01656	-0.09552	8
MIDW	'GREAT BEND PLANT 69KV'	10	-0.09916	MIDW	'KNOLL 3 115 115KV'	9999	-0.01656	-0.0826	10
MIDW	'PAWNEE 115KV'	999	-0.11208	MIDW	'COLBY 115KV'	12	-0.03516	-0.07692	10
MIDW	'RICE 115KV'	999	-0.11208	MIDW	'COLBY 115KV'	12	-0.03516	-0.07692	10
WERE	'GILL ENERGY CENTER 138KV'	118	-0.00238	WERE	'ABILENE ENERGY CENTER 115KV'	27	0.0576	-0.05998	13
MIDW	'GREAT BEND PLANT 69KV'	10	-0.09916	MIDW	'COLBY 115KV'	12	-0.03516	-0.064	13
WERE	'CHANUTE 69KV'	47	0.00149	WERE	'ABILENE ENERGY CENTER 115KV'	27	0.0576	-0.05611	14
WERE	'CITY OF AUGUSTA 69KV'	7	0.00057	WERE	'ABILENE ENERGY CENTER 115KV'	27	0.0576	-0.05703	14
WERE	'CITY OF ERIE 69KV'	23	0.00149	WERE	'ABILENE ENERGY CENTER 115KV'	27	0.0576	-0.05611	14
WERE	'CITY OF GIRARD 69KV'	8	0.00153	WERE	'ABILENE ENERGY CENTER 115KV'	27	0.0576	-0.05607	14
WERE	'CITY OF IOLA 69KV'	21	0.00172	WERE	'ABILENE ENERGY CENTER 115KV'	27	0.0576	-0.05588	14
WERE	'CITY OF MULVANE 69KV'	11	-0.00044	WERE	'ABILENE ENERGY CENTER 115KV'	27	0.0576	-0.05804	14
WERE	'CITY OF WELLINGTON 69KV'	24	-0.00121	WERE	'ABILENE ENERGY CENTER 115KV'	27	0.0576	-0.05881	14
WERE	'CITY OF WINFIELD 69KV'	40	-0.00069	WERE	'ABILENE ENERGY CENTER 115KV'	27	0.0576	-0.05829	14
WERE	'EVANS ENERGY CENTER 138KV'	488	0.00045	WERE	'ABILENE ENERGY CENTER 115KV'	27	0.0576	-0.05715	14
WERE	'GETTY 69KV'	35	0.00079	WERE	'ABILENE ENERGY CENTER 115KV'	27	0.0576	-0.05681	14
WERE	'GILL ENERGY CENTER 69KV'	118	-0.00166	WERE	'ABILENE ENERGY CENTER 115KV'	27	0.0576	-0.05926	14
WERE	'LATHAM1234.0 345KV'	150	0.00139	WERE	'ABILENE ENERGY CENTER 115KV'	27	0.0576	-0.05621	14

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: WICHITA - RENO 345KV  
 Limiting Facility: NORTH AMERICAN PHILIPS JUNCTION (SOUTH) - WEST MCPHERSON 115KV CKT 1  
 From->To  
 Direction: EAST MCPHERSON - SUMMIT 230KV CKT 1  
 Line Outage: 57374574381568725687312207SH  
 Flowgate:  
 Date Redispatch Needed: 6/1 - 10/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Summer Shoulder

Reservation	Relief Amount	Aggregate Relief Amount	Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
1090662		0.8	WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23468	WERE	'CLAY CENTER JUNCTION 115KV'	12	0.04033	-0.27501	3
1090674		0.1	WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23468	WERE	'CHANUTE 69KV'	47	0.00121	-0.23589	4
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23468	WERE	'CITY OF AUGUSTA 69KV'	20	0.00038	-0.23506	4
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23468	WERE	'CITY OF BURLINGTON 69KV'	5	0.00231	-0.23699	4
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23468	WERE	'CITY OF ERIE 69KV'	24	0.00121	-0.23589	4
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23468	WERE	'CITY OF FREDONIA 69KV'	10	0.00096	-0.23564	4
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23468	WERE	'CITY OF GIRARD 69KV'	3	0.00126	-0.23594	4
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23468	WERE	'CITY OF IOLA 69KV'	20	0.00142	-0.2361	4
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23468	WERE	'CITY OF MULVANE 69KV'	6	-0.00049	-0.23419	4
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23468	WERE	'CITY OF WELLINGTON 69KV'	36	-0.00113	-0.23355	4
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23468	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00231	-0.23699	4
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23468	WERE	'EVANS ENERGY CENTER 138KV'	268	0.00027	-0.23495	4
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23468	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00217	-0.23251	4
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23468	WERE	'HOLTON 115KV'	16	0.00714	-0.24182	4
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23468	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01374	-0.24842	4
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23468	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01427	-0.24895	4
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23468	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00852	-0.2432	4
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23468	WERE	'LAWRENCE ENERGY CENTER 230KV'	237	0.00896	-0.24364	4
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23468	WERE	'SOUTH SENECA 115KV'	13	0.00169	-0.23637	4
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23468	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.01035	-0.24503	4

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23468	WERE	'WACO 138KV'	18	-0.00193	-0.23275	4
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.18567	WERE	'CLAY CENTER JUNCTION 115KV'	12	0.04033	-0.226	4
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.18567	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01374	-0.19941	4
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.18567	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01427	-0.19994	4
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.18567	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.01035	-0.19602	4
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18559	WERE	'CLAY CENTER JUNCTION 115KV'	12	0.04033	-0.22592	4
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18559	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01374	-0.19933	4
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18559	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01427	-0.19986	4
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18559	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.01035	-0.19594	4
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.18567	WERE	'CHANUTE 69KV'	47	0.00121	-0.18688	5
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.18567	WERE	'CITY OF AUGUSTA 69KV'	20	0.00038	-0.18605	5
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.18567	WERE	'CITY OF BURLINGTON 69KV'	5	0.00231	-0.18798	5
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.18567	WERE	'CITY OF ERIE 69KV'	24	0.00121	-0.18688	5
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.18567	WERE	'CITY OF FREDONIA 69KV'	10	0.00096	-0.18663	5
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.18567	WERE	'CITY OF GIRARD 69KV'	3	0.00126	-0.18693	5
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.18567	WERE	'CITY OF IOLA 69KV'	20	0.00142	-0.18709	5
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.18567	WERE	'CITY OF MULVANE 69KV'	6	-0.00049	-0.18518	5
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.18567	WERE	'CITY OF WELLINGTON 69KV'	36	-0.00113	-0.18454	5
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.18567	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00231	-0.18798	5
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.18567	WERE	'EVANS ENERGY CENTER 138KV'	268	0.00027	-0.18594	5
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.18567	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00217	-0.1835	5
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.18567	WERE	'HOLTON 115KV'	16	0.00714	-0.19281	5
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.18567	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00852	-0.19419	5
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.18567	WERE	'LAWRENCE ENERGY CENTER 230KV'	237	0.00896	-0.19463	5
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.18567	WERE	'SOUTH SENECA 115KV'	13	0.00169	-0.18736	5
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.18567	WERE	'WACO 138KV'	18	-0.00193	-0.18374	5
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18559	WERE	'CHANUTE 69KV'	47	0.00121	-0.1868	5
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18559	WERE	'CITY OF AUGUSTA 69KV'	20	0.00038	-0.18597	5
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18559	WERE	'CITY OF BURLINGTON 69KV'	5	0.00231	-0.1879	5
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18559	WERE	'CITY OF ERIE 69KV'	24	0.00121	-0.1868	5
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18559	WERE	'CITY OF FREDONIA 69KV'	10	0.00096	-0.18655	5
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18559	WERE	'CITY OF GIRARD 69KV'	3	0.00126	-0.18685	5
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18559	WERE	'CITY OF IOLA 69KV'	20	0.00142	-0.18701	5
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18559	WERE	'CITY OF MULVANE 69KV'	6	-0.00049	-0.1851	5
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18559	WERE	'CITY OF WELLINGTON 69KV'	36	-0.00113	-0.18446	5
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18559	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00231	-0.1879	5
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18559	WERE	'EVANS ENERGY CENTER 138KV'	268	0.00027	-0.18586	5
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18559	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00217	-0.18342	5
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18559	WERE	'HOLTON 115KV'	16	0.00714	-0.19273	5
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18559	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00852	-0.19411	5
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18559	WERE	'LAWRENCE ENERGY CENTER 230KV'	237	0.00896	-0.19455	5
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18559	WERE	'SOUTH SENECA 115KV'	13	0.00169	-0.18728	5
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18559	WERE	'WACO 138KV'	18	-0.00193	-0.18366	5
WERE	'ST JOHN 115KV'	8	-0.09948	WERE	'CLAY CENTER JUNCTION 115KV'	12	0.04033	-0.13981	6
WERE	'ST JOHN 115KV'	8	-0.09948	WERE	'HOLTON 115KV'	16	0.00714	-0.10662	8
WERE	'ST JOHN 115KV'	8	-0.09948	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01374	-0.11322	8
WERE	'ST JOHN 115KV'	8	-0.09948	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01427	-0.11375	8
WERE	'ST JOHN 115KV'	8	-0.09948	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00852	-0.108	8
WERE	'ST JOHN 115KV'	8	-0.09948	WERE	'LAWRENCE ENERGY CENTER 230KV'	237	0.00896	-0.10844	8
WERE	'ST JOHN 115KV'	8	-0.09948	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.01035	-0.10983	8
WERE	'ST JOHN 115KV'	8	-0.09948	WERE	'CHANUTE 69KV'	47	0.00121	-0.10069	9
WERE	'ST JOHN 115KV'	8	-0.09948	WERE	'CITY OF AUGUSTA 69KV'	20	0.00038	-0.09986	9
WERE	'ST JOHN 115KV'	8	-0.09948	WERE	'CITY OF BURLINGTON 69KV'	5	0.00231	-0.10179	9
WERE	'ST JOHN 115KV'	8	-0.09948	WERE	'CITY OF ERIE 69KV'	24	0.00121	-0.10069	9
WERE	'ST JOHN 115KV'	8	-0.09948	WERE	'CITY OF FREDONIA 69KV'	10	0.00096	-0.10044	9
WERE	'ST JOHN 115KV'	8	-0.09948	WERE	'CITY OF IOLA 69KV'	20	0.00142	-0.1009	9
WERE	'ST JOHN 115KV'	8	-0.09948	WERE	'CITY OF MULVANE 69KV'	6	-0.00049	-0.09899	9
WERE	'ST JOHN 115KV'	8	-0.09948	WERE	'CITY OF WELLINGTON 69KV'	36	-0.00113	-0.09835	9
WERE	'ST JOHN 115KV'	8	-0.09948	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00231	-0.10179	9
WERE	'ST JOHN 115KV'	8	-0.09948	WERE	'EVANS ENERGY CENTER 138KV'	268	0.00027	-0.09975	9
WERE	'ST JOHN 115KV'	8	-0.09948	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00217	-0.09731	9
WERE	'ST JOHN 115KV'	8	-0.09948	WERE	'SOUTH SENECA 115KV'	13	0.00169	-0.10117	9
WERE	'ST JOHN 115KV'	8	-0.09948	WERE	'WACO 138KV'	18	-0.00193	-0.09755	9
MIDW	'PAWNEE 115KV'	999	-0.09948	MIDW	'COLBY 115KV'	14	-0.03446	-0.06502	14
MIDW	'RICE 115KV'	999	-0.09948	MIDW	'COLBY 115KV'	14	-0.03446	-0.06502	14
MIDW	'PAWNEE 115KV'	999	-0.09948	MIDW	'KNOLL 3 115 115KV'	9999	-0.04233	-0.05715	15
MIDW	'RICE 115KV'	999	-0.09948	MIDW	'KNOLL 3 115 115KV'	9999	-0.04233	-0.05715	15
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23468	WERE	'HUTCHINSON ENERGY CENTER 115KV'	80	-0.18567	-0.04901	18
MIDW	'GREAT BEND PLANT 69KV'	10	-0.08368	MIDW	'COLBY 115KV'	14	-0.03446	-0.04922	18
WERE	'CITY OF WELLINGTON 69KV'	8	-0.00113	WERE	'CLAY CENTER JUNCTION 115KV'	12	0.04033	-0.04146	21
WERE	'CITY OF WINFIELD 69KV'	40	-0.00065	WERE	'CLAY CENTER JUNCTION 115KV'	12	0.04033	-0.04098	21
WERE	'GILL ENERGY CENTER 138KV'	118	-0.00217	WERE	'CLAY CENTER JUNCTION 115KV'	12	0.04033	-0.0425	21
WERE	'GILL ENERGY CENTER 69KV'	118	-0.00155	WERE	'CLAY CENTER JUNCTION 115KV'	12	0.04033	-0.04188	21
MIDW	'GREAT BEND PLANT 69KV'	10	-0.08368	MIDW	'KNOLL 3 115 115KV'	9999	-0.04233	-0.04135	21
WERE	'CHANUTE 69KV'	41	0.00121	WERE	'CLAY CENTER JUNCTION 115KV'	12	0.04033	-0.03912	22
WERE	'CITY OF MULVANE 69KV'	10	-0.00049	WERE	'CLAY CENTER JUNCTION 115KV'	12	0.04033	-0.04082	22
WERE	'EVANS ENERGY CENTER 138KV'	525	0.00027	WERE	'CLAY CENTER JUNCTION 115KV'	12	0.04033	-0.04006	22
WERE	'GETTY 69KV'	35	0.00056	WERE	'CLAY CENTER JUNCTION 115KV'	12	0.04033	-0.03977	22
WERE	'LATHAM1234_0 345KV'	150	0.00111	WERE	'CLAY CENTER JUNCTION 115KV'	12	0.04033	-0.03923	22
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.00118	WERE	'CLAY CENTER JUNCTION 115KV'	12	0.04033	-0.03915	22

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: WICHITA - RENO 345KV  
 Limiting Facility: NORTH AMERICAN PHILIPS JUNCTION (SOUTH) - WEST MCPHERSON 115KV CKT 1  
 Direction: From->To  
 Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1  
 Flowgate: 57374574381568725687312207/WP  
 Date Redispatch Needed: 12/1/07 - 4/1/08  
 Season Flowgate Identified: 2007 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090662	0.5	1

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

1090674		0.1		1					
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23467	WERE	'CHANUTE 69KV'	35	0.00122	-0.23589	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23467	WERE	'CITY OF AUGUSTA 69KV'	20	0.00039	-0.23506	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23467	WERE	'CITY OF BURLINGTON 69KV'	5	0.00232	-0.23699	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23467	WERE	'CITY OF ERIE 69KV'	4	0.00122	-0.23589	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23467	WERE	'CITY OF FREDONIA 69KV'	5	0.00097	-0.23564	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23467	WERE	'CITY OF GIRARD 69KV'	1	0.00127	-0.23594	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23467	WERE	'CITY OF IOLA 69KV'	15	0.00142	-0.23609	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23467	WERE	'CITY OF MULVANE 69KV'	4	-0.00049	-0.23418	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23467	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00113	-0.23354	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23467	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04034	-0.27501	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23467	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00232	-0.23699	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23467	WERE	'EVANS ENERGY CENTER 138KV'	54	0.00028	-0.23495	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23467	WERE	'HOLTON 115KV'	8	0.00714	-0.24181	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23467	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01375	-0.24842	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23467	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01428	-0.24895	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23467	WERE	'LAWRENCE ENERGY CENTER 230KV'	133	0.00897	-0.24364	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23467	WERE	'SMOKEY HILLS 34KV'	25	0.01448	-0.24915	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23467	WERE	'SOUTH SENECA 115KV'	9	0.0017	-0.23637	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23467	WERE	'WACO 138KV'	18	-0.00192	-0.23275	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18566	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04034	-0.226	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18557	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04034	-0.22591	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18566	WERE	'CHANUTE 69KV'	35	0.00122	-0.18688	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18566	WERE	'CITY OF AUGUSTA 69KV'	20	0.00039	-0.18605	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18566	WERE	'CITY OF BURLINGTON 69KV'	5	0.00232	-0.18798	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18566	WERE	'CITY OF ERIE 69KV'	4	0.00122	-0.18688	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18566	WERE	'CITY OF FREDONIA 69KV'	5	0.00097	-0.18663	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18566	WERE	'CITY OF GIRARD 69KV'	1	0.00127	-0.18693	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18566	WERE	'CITY OF IOLA 69KV'	15	0.00142	-0.18708	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18566	WERE	'CITY OF MULVANE 69KV'	4	-0.00049	-0.18571	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18566	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00113	-0.18453	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18566	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00232	-0.18798	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18566	WERE	'EVANS ENERGY CENTER 138KV'	54	0.00028	-0.18594	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18566	WERE	'HOLTON 115KV'	8	0.00714	-0.1928	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18566	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01375	-0.19941	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18566	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01428	-0.19994	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18566	WERE	'LAWRENCE ENERGY CENTER 230KV'	133	0.00897	-0.19463	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18566	WERE	'SMOKEY HILLS 34KV'	25	0.01448	-0.20014	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18566	WERE	'SOUTH SENECA 115KV'	9	0.0017	-0.18736	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18566	WERE	'WACO 138KV'	18	-0.00192	-0.18374	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18557	WERE	'CHANUTE 69KV'	35	0.00122	-0.18679	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18557	WERE	'CITY OF AUGUSTA 69KV'	20	0.00039	-0.18596	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18557	WERE	'CITY OF BURLINGTON 69KV'	5	0.00232	-0.18789	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18557	WERE	'CITY OF ERIE 69KV'	4	0.00122	-0.18679	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18557	WERE	'CITY OF FREDONIA 69KV'	5	0.00097	-0.18654	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18557	WERE	'CITY OF GIRARD 69KV'	1	0.00127	-0.18684	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18557	WERE	'CITY OF IOLA 69KV'	15	0.00142	-0.18699	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18557	WERE	'CITY OF MULVANE 69KV'	4	-0.00049	-0.18508	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18557	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00113	-0.18444	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18557	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00232	-0.18789	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18557	WERE	'EVANS ENERGY CENTER 138KV'	54	0.00028	-0.18585	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18557	WERE	'HOLTON 115KV'	8	0.00714	-0.19271	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18557	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01375	-0.19932	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18557	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01428	-0.19985	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18557	WERE	'LAWRENCE ENERGY CENTER 230KV'	133	0.00897	-0.19454	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18557	WERE	'SMOKEY HILLS 34KV'	25	0.01448	-0.20005	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18557	WERE	'SOUTH SENECA 115KV'	9	0.0017	-0.18727	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18557	WERE	'WACO 138KV'	18	-0.00192	-0.18365	3
WERE	'ST JOHN 115KV'	8	-0.09947	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04034	-0.13981	4
WERE	'ST JOHN 115KV'	8	-0.09947	WERE	'CITY OF BURLINGTON 69KV'	5	0.00232	-0.10179	5
WERE	'ST JOHN 115KV'	8	-0.09947	WERE	'CITY OF IOLA 69KV'	15	0.00142	-0.10089	5
WERE	'ST JOHN 115KV'	8	-0.09947	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00232	-0.10179	5
WERE	'ST JOHN 115KV'	8	-0.09947	WERE	'HOLTON 115KV'	8	0.00714	-0.10661	5
WERE	'ST JOHN 115KV'	8	-0.09947	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01375	-0.11322	5
WERE	'ST JOHN 115KV'	8	-0.09947	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01428	-0.11375	5
WERE	'ST JOHN 115KV'	8	-0.09947	WERE	'LAWRENCE ENERGY CENTER 230KV'	133	0.00897	-0.10844	5
WERE	'ST JOHN 115KV'	8	-0.09947	WERE	'SMOKEY HILLS 34KV'	25	0.01448	-0.11395	5
WERE	'ST JOHN 115KV'	8	-0.09947	WERE	'SOUTH SENECA 115KV'	9	0.0017	-0.10117	5
WERE	'ST JOHN 115KV'	8	-0.09947	WERE	'CHANUTE 69KV'	35	0.00122	-0.10069	6
WERE	'ST JOHN 115KV'	8	-0.09947	WERE	'CITY OF AUGUSTA 69KV'	20	0.00039	-0.09986	6
WERE	'ST JOHN 115KV'	8	-0.09947	WERE	'CITY OF ERIE 69KV'	4	0.00122	-0.10069	6
WERE	'ST JOHN 115KV'	8	-0.09947	WERE	'CITY OF FREDONIA 69KV'	5	0.00097	-0.10044	6
WERE	'ST JOHN 115KV'	8	-0.09947	WERE	'CITY OF MULVANE 69KV'	4	-0.00049	-0.09898	6
WERE	'ST JOHN 115KV'	8	-0.09947	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00113	-0.09834	6
WERE	'ST JOHN 115KV'	8	-0.09947	WERE	'EVANS ENERGY CENTER 138KV'	54	0.00028	-0.09975	6
WERE	'ST JOHN 115KV'	8	-0.09947	WERE	'WACO 138KV'	18	-0.00192	-0.09755	6
MIDW	'PAWNEE 115KV'	999	-0.09947	MIDW	'COLBY 115KV'	12	-0.03444	-0.06503	9
MIDW	'RICE 115KV'	999	-0.09947	MIDW	'COLBY 115KV'	12	-0.03444	-0.06503	9
WEPL	'A. M. MULLERGEN GENERATOR 115KV'	63	-0.08159	WEPL	'HARPER 138KV'	15	-0.0271	-0.05449	10
WEPL	'NORTH WEST GREAT BEND 115KV'	14	-0.08159	WEPL	'HARPER 138KV'	15	-0.0271	-0.05449	10
MIDW	'PAWNEE 115KV'	999	-0.09947	MIDW	'KNOLL 3 115 115KV'	9999	-0.04232	-0.05715	10
MIDW	'RICE 115KV'	999	-0.09947	MIDW	'KNOLL 3 115 115KV'	9999	-0.04232	-0.05715	10
MIDW	'GREAT BEND PLANT 69KV'	10	-0.08366	MIDW	'COLBY 115KV'	12	-0.03444	-0.04922	11
WERE	'CITY OF WELLINGTON 69KV'	24	-0.00113	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04034	-0.04147	13
WERE	'GILL ENERGY CENTER 138KV'	218	-0.00217	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04034	-0.04251	13
WERE	'GILL ENERGY CENTER 69KV'	118	-0.00155	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04034	-0.04189	13
MIDW	'GREAT BEND PLANT 69KV'	10	-0.08366	MIDW	'KNOLL 3 115 115KV'	9999	-0.04232	-0.04134	13
WERE	'CHANUTE 69KV'	53	0.00122	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04034	-0.03912	14
WERE	'CITY OF AUGUSTA 69KV'	7	0.00039	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04034	-0.03995	14
WERE	'CITY OF ERIE 69KV'	23	0.00122	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04034	-0.03912	14
WERE	'CITY OF FREDONIA 69KV'	5	0.00097	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04034	-0.03937	14
WERE	'CITY OF GIRARD 69KV'	9	0.00127	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04034	-0.03907	14
WERE	'CITY OF IOLA 69KV'	23	0.00142	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04034	-0.03892	14

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'CITY OF MULVANE 69KV'	12	-0.00049	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04034	-0.04083	14
WERE	'CITY OF WINFIELD 69KV'	40	-0.00064	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04034	-0.04098	14
WERE	'EVANS ENERGY CENTER 138KV'	739	0.00028	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04034	-0.04006	14
WERE	'GETTY 69KV'	35	0.00057	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04034	-0.03977	14
WERE	'LATHAM1234.0 345KV'	150	0.00111	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04034	-0.03923	14
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.00119	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04034	-0.03915	14
WERE	'SOUTH SENECA 115KV'	11	0.0017	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04034	-0.03864	14
WERE	'BROWN COUNTY 115KV'	6	0.00237	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04034	-0.03797	15

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: WICHITA - RENO 345KV  
 Limiting Facility: NORTH AMERICAN PHILIPS JUNCTION (SOUTH) - WEST MCPHERSON 115KV CKT 1  
 Direction: From->To  
 Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1  
 Flowgate: 57374574381568725687312208WP  
 Date Redispatch Needed: Starting 2008 12/1 - 4/1 Until EOC  
 Season Flowgate Identified: 2008 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090325	0.8	10
1090327	0.2	10
1090662	0.5	10
1090674	0.1	10
1090747	0.1	10
1090756	0.1	10
1090816	0.2	10
1090817	0.2	10
1090826	0.3	10
1090827	0.3	10
1090828	0.2	10
1090829	0.1	10
1090839	0.3	10
1090841	0.3	10
1090853	0.2	10
1090922	4.5	10
1090923	1.0	10
1090964	0.2	10
1091055	0.2	10

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23462	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01372	-0.24834	39
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23462	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01426	-0.24888	39
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23462	WERE	'SMOKEY HILLS 34KV'	25	0.01452	-0.24914	39
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23462	WERE	'SMOKEY HILLS 230 230KV'	72	0.01452	-0.24914	39
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23462	WERE	'LAWRENCE ENERGY CENTER 230KV'	174	0.00896	-0.24358	40
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23462	WERE	'CHANUTE 69KV'	35	0.00122	-0.23584	41
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23462	WERE	'CITY OF AUGUSTA 69KV'	20	0.00036	-0.23498	41
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23462	WERE	'CITY OF IOLA 69KV'	20	0.00143	-0.23605	41
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23462	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00228	-0.23699	41
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23462	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00025	-0.23487	41
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23462	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00115	-0.23347	42
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23462	WERE	'WACO 138KV'	17	-0.00195	-0.23267	42
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18561	WERE	'SMOKEY HILLS 34KV'	25	0.01452	-0.20013	48
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18561	WERE	'SMOKEY HILLS 230 230KV'	72	0.01452	-0.20013	48
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18561	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01372	-0.19933	49
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18561	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01426	-0.19987	49
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18542	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01372	-0.19914	49
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18542	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01426	-0.19968	49
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18542	WERE	'SMOKEY HILLS 34KV'	25	0.01452	-0.19994	49
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18542	WERE	'SMOKEY HILLS 230 230KV'	72	0.01452	-0.19994	49
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18561	WERE	'LAWRENCE ENERGY CENTER 230KV'	174	0.00896	-0.19457	50
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18542	WERE	'LAWRENCE ENERGY CENTER 230KV'	174	0.00896	-0.19438	50
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18561	WERE	'CHANUTE 69KV'	35	0.00122	-0.18683	52
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18561	WERE	'CITY OF AUGUSTA 69KV'	20	0.00036	-0.18597	52
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18561	WERE	'CITY OF IOLA 69KV'	20	0.00143	-0.18704	52
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18561	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00228	-0.18789	52
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18561	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00025	-0.18586	52
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18542	WERE	'CHANUTE 69KV'	35	0.00122	-0.18664	52
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18542	WERE	'CITY OF AUGUSTA 69KV'	20	0.00036	-0.18578	52
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18542	WERE	'CITY OF IOLA 69KV'	20	0.00143	-0.18685	52
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18542	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00228	-0.18777	52
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18542	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00025	-0.18567	52
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18561	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00115	-0.18446	53
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18542	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00115	-0.18427	53
MIDW	'PAWNEE 115KV'	999	-0.09943	MIDW	'KNOLL 3 115 115KV'	9999	-0.0422	-0.05723	169
MIDW	'RICE 115KV'	999	-0.09943	MIDW	'KNOLL 3 115 115KV'	9999	-0.0422	-0.05723	169

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: WICHITA - RENO 345KV  
 Limiting Facility: NORTH AMERICAN PHILIPS JUNCTION (SOUTH) - WEST MCPHERSON 115KV CKT 1  
 Direction: From->To  
 Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1  
 Flowgate: 57374574381568725687312211WP  
 Date Redispatch Needed: 12/1 - 4/1 Until EOC of Upgrade Starting 2009  
 Season Flowgate Identified: 2011 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount
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Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

1090325	1.7	42							
1090327	0.4	42							
1090329	2.6	42							
1090331	0.6	42							
1090332	3.4	42							
1090334	0.8	42							
1090377	0.3	42							
1090380	0.3	42							
1090382	0.1	42							
1090408	0.4	42							
1090415	0.1	42							
1090652	0.4	42							
1090661	0.1	42							
1090662	0.5	42							
1090674	0.1	42							
1090676	0.1	42							
1090747	0.7	42							
1090748	0.3	42							
1090756	0.7	42							
1090757	0.3	42							
1090816	1.2	42							
1090817	1.2	42							
1090826	1.9	42							
1090827	1.9	42							
1090828	1.0	42							
1090829	0.7	42							
1090839	1.9	42							
1090841	1.9	42							
1090844	0.5	42							
1090845	0.5	42							
1090847	0.3	42							
1090852	0.5	42							
1090853	1.0	42							
1090854	0.3	42							
1090917	0.3	42							
1090919	0.1	42							
1090920	0.6	42							
1090921	0.1	42							
1090922	1.1	42							
1090923	0.3	42							
1090929	1.6	42							
1090930	0.4	42							
1090931	1.8	42							
1090932	0.4	42							
1090934	0.8	42							
1090935	0.2	42							
1090964	1.7	42							
1090965	0.5	42							
1091052	0.5	42							
1091053	0.9	42							
1091055	1.5	42							
1091057	0.5	42							
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23458	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0137	-0.24828	169
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23458	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01425	-0.24883	169
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23458	WERE	'LAWRENCE ENERGY CENTER 230KV'	171	0.0089	-0.24348	172
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.18556	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01425	-0.19981	210
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.18556	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0137	-0.19926	211
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.18556	WERE	'LAWRENCE ENERGY CENTER 230KV'	171	0.0089	-0.19446	216
MIDW	'PAWNEE 115KV'	999	-0.09936	MIDW	'KNOLL 3 115 115KV'	9999	-0.04213	-0.05723	733
MIDW	'RICE 115KV'	999	-0.09936	MIDW	'KNOLL 3 115 115KV'	9999	-0.04213	-0.05723	733

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: WICHITA - RENO 345KV  
 Limiting Facility: NORTH AMERICAN PHILIPS JUNCTION (SOUTH) - WEST MCPHERSON 115KV CKT 1  
 Direction: From->To  
 Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1  
 Flowgate: 57374574381568725687312306WP  
 Date Redispatch Needed: 12/1/06 - 4/1/07  
 Season Flowgate Identified: 2006 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount							
1090662	0.6	1							
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24272	WERE	'CHANUTE 69KV'	35	0.00147	-0.24419	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24272	WERE	'CITY OF AUGUSTA 69KV'	20	0.00053	-0.24325	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24272	WERE	'CITY OF BURLINGTON 69KV'	5	0.00279	-0.24551	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24272	WERE	'CITY OF ERIE 69KV'	4	0.00147	-0.24419	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24272	WERE	'CITY OF FREDONIA 69KV'	8	0.00117	-0.24389	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24272	WERE	'CITY OF GIRARD 69KV'	1	0.00152	-0.24424	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24272	WERE	'CITY OF IOLA 69KV'	14	0.00171	-0.24443	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24272	WERE	'CITY OF MULVANE 69KV'	4	-0.00049	-0.24223	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24272	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00126	-0.24146	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24272	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00279	-0.24551	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24272	WERE	'EVANS ENERGY CENTER 138KV'	52	0.00041	-0.24313	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24272	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01614	-0.25886	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24272	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01675	-0.25947	2
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24272	WERE	'LAWRENCE ENERGY CENTER 230KV'	133	0.01058	-0.2533	2

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.24272	WERE	'WACO 138KV'	18	-0.00216	-0.24056	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.19666	WERE	'CHANUTE 69KV'	35	0.00147	-0.19813	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.19666	WERE	'CITY OF AUGUSTA 69KV'	20	0.00053	-0.19719	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.19666	WERE	'CITY OF BURLINGTON 69KV'	5	0.00279	-0.19945	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.19666	WERE	'CITY OF ERIE 69KV'	4	0.00147	-0.19813	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.19666	WERE	'CITY OF FREDONIA 69KV'	8	0.00117	-0.19783	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.19666	WERE	'CITY OF GIRARD 69KV'	1	0.00152	-0.19818	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.19666	WERE	'CITY OF IOLA 69KV'	14	0.00171	-0.19837	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.19666	WERE	'CITY OF MULVANE 69KV'	4	-0.00049	-0.19617	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.19666	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00126	-0.1954	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.19666	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00279	-0.19945	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.19666	WERE	'EVANS ENERGY CENTER 138KV'	52	0.00041	-0.19707	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.19666	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01614	-0.2128	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.19666	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01675	-0.21341	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.19666	WERE	'LAWRENCE ENERGY CENTER 230KV'	133	0.01058	-0.20724	3
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.19666	WERE	'WACO 138KV'	18	-0.00216	-0.1945	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19657	WERE	'CHANUTE 69KV'	35	0.00147	-0.19804	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19657	WERE	'CITY OF AUGUSTA 69KV'	20	0.00053	-0.1971	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19657	WERE	'CITY OF BURLINGTON 69KV'	5	0.00279	-0.19936	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19657	WERE	'CITY OF ERIE 69KV'	4	0.00147	-0.19804	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19657	WERE	'CITY OF FREDONIA 69KV'	8	0.00117	-0.19774	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19657	WERE	'CITY OF GIRARD 69KV'	1	0.00152	-0.19809	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19657	WERE	'CITY OF IOLA 69KV'	14	0.00171	-0.19828	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19657	WERE	'CITY OF MULVANE 69KV'	4	-0.00049	-0.19608	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19657	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00126	-0.19531	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19657	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00279	-0.19936	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19657	WERE	'EVANS ENERGY CENTER 138KV'	52	0.00041	-0.19698	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19657	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01614	-0.21271	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19657	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01675	-0.21332	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19657	WERE	'LAWRENCE ENERGY CENTER 230KV'	133	0.01058	-0.20715	3
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19657	WERE	'WACO 138KV'	18	-0.00216	-0.19441	3
WERE	'ST JOHN 115KV'	8	-0.11401	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01614	-0.13015	4
WERE	'ST JOHN 115KV'	8	-0.11401	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01675	-0.13076	4
WERE	'ST JOHN 115KV'	8	-0.11401	WERE	'LAWRENCE ENERGY CENTER 230KV'	133	0.01058	-0.12459	4
WERE	'ST JOHN 115KV'	8	-0.11401	WERE	'CHANUTE 69KV'	35	0.00147	-0.11548	5
WERE	'ST JOHN 115KV'	8	-0.11401	WERE	'CITY OF AUGUSTA 69KV'	20	0.00053	-0.11454	5
WERE	'ST JOHN 115KV'	8	-0.11401	WERE	'CITY OF BURLINGTON 69KV'	5	0.00279	-0.1168	5
WERE	'ST JOHN 115KV'	8	-0.11401	WERE	'CITY OF ERIE 69KV'	4	0.00147	-0.11548	5
WERE	'ST JOHN 115KV'	8	-0.11401	WERE	'CITY OF FREDONIA 69KV'	8	0.00117	-0.11518	5
WERE	'ST JOHN 115KV'	8	-0.11401	WERE	'CITY OF IOLA 69KV'	14	0.00171	-0.11572	5
WERE	'ST JOHN 115KV'	8	-0.11401	WERE	'CITY OF MULVANE 69KV'	4	-0.00049	-0.11352	5
WERE	'ST JOHN 115KV'	8	-0.11401	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00126	-0.11275	5
WERE	'ST JOHN 115KV'	8	-0.11401	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00279	-0.1168	5
WERE	'ST JOHN 115KV'	8	-0.11401	WERE	'EVANS ENERGY CENTER 138KV'	52	0.00041	-0.11442	5
WERE	'ST JOHN 115KV'	8	-0.11401	WERE	'WACO 138KV'	18	-0.00216	-0.11185	5
MIDW	'PAWNEE 115KV'	999	-0.11401	MIDW	'KNOLL 3 115 115KV'	9999	-0.01525	-0.09876	6
MIDW	'RICE 115KV'	999	-0.11401	MIDW	'KNOLL 3 115 115KV'	9999	-0.01525	-0.09876	6
MIDW	'GREAT BEND PLANT 69KV'	10	-0.0966	MIDW	'KNOLL 3 115 115KV'	9999	-0.01525	-0.08135	7
MIDW	'PAWNEE 115KV'	999	-0.11401	MIDW	'COLBY 115KV'	12	-0.03462	-0.07939	7
MIDW	'RICE 115KV'	999	-0.11401	MIDW	'COLBY 115KV'	12	-0.03462	-0.07939	7
MIDW	'GREAT BEND PLANT 69KV'	10	-0.0966	MIDW	'COLBY 115KV'	12	-0.03462	-0.06198	9
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.10331	WEPL	'GRAY COUNTY WIND FARM 115KV'	100	-0.06334	-0.03997	14
WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.10331	WEPL	'JUDSON LARGE 115KV'	31	-0.06327	-0.04004	14
WEPL	'NORTH WEST GREAT BEND 115KV'	14	-0.10331	WEPL	'GRAY COUNTY WIND FARM 115KV'	100	-0.06334	-0.03997	14
WEPL	'NORTH WEST GREAT BEND 115KV'	14	-0.10331	WEPL	'JUDSON LARGE 115KV'	31	-0.06327	-0.04004	14

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: WICHITA - RENO 345KV  
 Limiting Facility: NORTH AMERICAN PHILIPS JUNCTION (SOUTH) - WEST MCPHERSON 115KV CKT 2  
 Direction: From->To  
 Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1  
 Flowgate: 57374574382568725687312207WP  
 Date Redispatch Needed: 12/1/07 - 4/1/08  
 Season Flowgate Identified: 2007 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090662	0.3	0
1090674	0.1	0

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26996	WERE	'CHANUTE 69KV'	35	0.0014	-0.27136	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26996	WERE	'CITY OF AUGUSTA 69KV'	20	0.00044	-0.2704	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26996	WERE	'CITY OF BURLINGTON 69KV'	5	0.00267	-0.27263	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26996	WERE	'CITY OF ERIE 69KV'	4	0.0014	-0.27136	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26996	WERE	'CITY OF FREDONIA 69KV'	5	0.00111	-0.27107	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26996	WERE	'CITY OF GIRARD 69KV'	1	0.00146	-0.27142	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26996	WERE	'CITY OF IOLA 69KV'	15	0.00164	-0.2716	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26996	WERE	'CITY OF MULVANE 69KV'	4	-0.00056	-0.2694	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26996	WERE	'CITY OF WELLINGTON 69KV'	20	-0.0013	-0.26866	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26996	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.0464	-0.31636	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26996	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00267	-0.27263	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26996	WERE	'EVANS ENERGY CENTER 138KV'	54	0.00032	-0.27028	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26996	WERE	'HOLTON 115KV'	8	0.00822	-0.27818	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26996	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01582	-0.28578	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26996	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01643	-0.28639	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26996	WERE	'LAWRENCE ENERGY CENTER 230KV'	133	0.01032	-0.28028	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26996	WERE	'SMOKEY HILLS 34KV'	25	0.01666	-0.28662	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26996	WERE	'SOUTH SENECA 115KV'	9	0.00195	-0.27191	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26996	WERE	'WACO 138KV'	18	-0.00221	-0.26775	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21358	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.0464	-0.25998	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21348	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.0464	-0.25988	1

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21358	WERE	'CHANUTE 69KV'	35	0.0014	-0.21498	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21358	WERE	'CITY OF AUGUSTA 69KV'	20	0.00044	-0.21402	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21358	WERE	'CITY OF BURLINGTON 69KV'	5	0.00267	-0.21625	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21358	WERE	'CITY OF ERIE 69KV'	4	0.0014	-0.21498	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21358	WERE	'CITY OF FREDONIA 69KV'	5	0.00111	-0.21469	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21358	WERE	'CITY OF GIRARD 69KV'	1	0.00146	-0.21504	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21358	WERE	'CITY OF IOLA 69KV'	15	0.00164	-0.21522	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21358	WERE	'CITY OF MULVANE 69KV'	4	-0.00056	-0.21302	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21358	WERE	'CITY OF WELLINGTON 69KV'	20	-0.0013	-0.21228	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21358	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00267	-0.21625	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21358	WERE	'EVANS ENERGY CENTER 138KV'	54	0.00032	-0.2139	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21358	WERE	'HOLTON 115KV'	8	0.00822	-0.2218	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21358	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01582	-0.2294	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21358	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01643	-0.23001	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21358	WERE	'LAWRENCE ENERGY CENTER 230KV'	133	0.01032	-0.2239	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21358	WERE	'SMOKEY HILLS 34KV'	25	0.01666	-0.23024	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21358	WERE	'SOUTH SENECA 115KV'	9	0.00195	-0.21553	2
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21358	WERE	'WACO 138KV'	18	-0.00221	-0.21137	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21348	WERE	'CHANUTE 69KV'	35	0.0014	-0.21488	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21348	WERE	'CITY OF AUGUSTA 69KV'	20	0.00044	-0.21392	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21348	WERE	'CITY OF BURLINGTON 69KV'	5	0.00267	-0.21615	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21348	WERE	'CITY OF ERIE 69KV'	4	0.0014	-0.21488	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21348	WERE	'CITY OF FREDONIA 69KV'	5	0.00111	-0.21459	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21348	WERE	'CITY OF GIRARD 69KV'	1	0.00146	-0.21494	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21348	WERE	'CITY OF IOLA 69KV'	15	0.00164	-0.21512	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21348	WERE	'CITY OF MULVANE 69KV'	4	-0.00056	-0.21292	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21348	WERE	'CITY OF WELLINGTON 69KV'	20	-0.0013	-0.21218	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21348	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00267	-0.21615	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21348	WERE	'EVANS ENERGY CENTER 138KV'	54	0.00032	-0.2138	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21348	WERE	'HOLTON 115KV'	8	0.00822	-0.2217	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21348	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01582	-0.2293	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21348	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01643	-0.22991	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21348	WERE	'LAWRENCE ENERGY CENTER 230KV'	133	0.01032	-0.2238	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21348	WERE	'SMOKEY HILLS 34KV'	25	0.01666	-0.23014	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21348	WERE	'SOUTH SENECA 115KV'	9	0.00195	-0.21543	2
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21348	WERE	'WACO 138KV'	18	-0.00221	-0.21127	2
WERE	'ST JOHN 115KV'	8	-0.11443	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.0464	-0.16083	2
WERE	'ST JOHN 115KV'	8	-0.11443	WERE	'CHANUTE 69KV'	35	0.0014	-0.11583	3
WERE	'ST JOHN 115KV'	8	-0.11443	WERE	'CITY OF AUGUSTA 69KV'	20	0.00044	-0.11487	3
WERE	'ST JOHN 115KV'	8	-0.11443	WERE	'CITY OF BURLINGTON 69KV'	5	0.00267	-0.1171	3
WERE	'ST JOHN 115KV'	8	-0.11443	WERE	'CITY OF ERIE 69KV'	4	0.0014	-0.11583	3
WERE	'ST JOHN 115KV'	8	-0.11443	WERE	'CITY OF FREDONIA 69KV'	5	0.00111	-0.11554	3
WERE	'ST JOHN 115KV'	8	-0.11443	WERE	'CITY OF GIRARD 69KV'	1	0.00146	-0.11589	3
WERE	'ST JOHN 115KV'	8	-0.11443	WERE	'CITY OF IOLA 69KV'	15	0.00164	-0.11607	3
WERE	'ST JOHN 115KV'	8	-0.11443	WERE	'CITY OF MULVANE 69KV'	4	-0.00056	-0.11387	3
WERE	'ST JOHN 115KV'	8	-0.11443	WERE	'CITY OF WELLINGTON 69KV'	20	-0.0013	-0.11313	3
WERE	'ST JOHN 115KV'	8	-0.11443	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00267	-0.1171	3
WERE	'ST JOHN 115KV'	8	-0.11443	WERE	'EVANS ENERGY CENTER 138KV'	54	0.00032	-0.11475	3
WERE	'ST JOHN 115KV'	8	-0.11443	WERE	'HOLTON 115KV'	8	0.00822	-0.12265	3
WERE	'ST JOHN 115KV'	8	-0.11443	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01582	-0.13025	3
WERE	'ST JOHN 115KV'	8	-0.11443	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01643	-0.13086	3
WERE	'ST JOHN 115KV'	8	-0.11443	WERE	'LAWRENCE ENERGY CENTER 230KV'	133	0.01032	-0.12475	3
WERE	'ST JOHN 115KV'	8	-0.11443	WERE	'SMOKEY HILLS 34KV'	25	0.01666	-0.13109	3
WERE	'ST JOHN 115KV'	8	-0.11443	WERE	'SOUTH SENECA 115KV'	9	0.00195	-0.11638	3
WERE	'ST JOHN 115KV'	8	-0.11443	WERE	'WACO 138KV'	18	-0.00221	-0.11222	3
MIDW	'PAWNEE 115KV'	999	-0.11443	MIDW	'COLBY 115KV'	12	-0.03962	-0.07481	5
MIDW	'PAWNEE 115KV'	999	-0.11443	MIDW	'KNOLL 3 115 115KV'	9999	-0.04868	-0.06575	5
MIDW	'RICE 115KV'	999	-0.11443	MIDW	'COLBY 115KV'	12	-0.03962	-0.07481	5
MIDW	'RICE 115KV'	999	-0.11443	MIDW	'KNOLL 3 115 115KV'	9999	-0.04868	-0.06575	5
WEPL	'A. M. MULLERGEN GENERATOR 115KV'	63	-0.09386	WEPL	'HARPER 138KV'	15	-0.03117	-0.06269	6
MIDW	'GREAT BEND PLANT 69KV'	10	-0.09625	MIDW	'COLBY 115KV'	12	-0.03962	-0.05663	6
WEPL	'NORTH WEST GREAT BEND 115KV'	14	-0.09386	WEPL	'HARPER 138KV'	15	-0.03117	-0.06269	6
WERE	'CITY OF WELLINGTON 69KV'	24	-0.0013	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.0464	-0.0477	7
WERE	'GILL ENERGY CENTER 138KV'	218	-0.00249	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.0464	-0.04889	7
WERE	'GILL ENERGY CENTER 69KV'	118	-0.00178	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.0464	-0.04818	7
MIDW	'GREAT BEND PLANT 69KV'	10	-0.09625	MIDW	'KNOLL 3 115 115KV'	9999	-0.04868	-0.04757	7
WERE	'BROWN COUNTY 115KV'	6	0.00273	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.0464	-0.04367	8
WERE	'CHANUTE 69KV'	53	0.0014	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.0464	-0.045	8
WERE	'CITY OF AUGUSTA 69KV'	7	0.00044	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.0464	-0.04596	8
WERE	'CITY OF BURLINGTON 69KV'	8	0.00267	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.0464	-0.04373	8
WERE	'CITY OF ERIE 69KV'	23	0.0014	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.0464	-0.045	8
WERE	'CITY OF FREDONIA 69KV'	5	0.00111	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.0464	-0.04529	8
WERE	'CITY OF GIRARD 69KV'	9	0.00146	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.0464	-0.04494	8
WERE	'CITY OF IOLA 69KV'	23	0.00164	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.0464	-0.04476	8
WERE	'CITY OF MULVANE 69KV'	12	-0.00056	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.0464	-0.04696	8
WERE	'CITY OF NEODESHA 69KV'	5	0.00102	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.0464	-0.04538	8
WERE	'CITY OF WINFIELD 69KV'	40	-0.00073	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.0464	-0.04713	8
WERE	'EVANS ENERGY CENTER 138KV'	739	0.00032	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.0464	-0.04608	8
WERE	'GETTY 69KV'	35	0.00066	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.0464	-0.04574	8

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: WICHITA - RENO 345KV  
 Limiting Facility: NORTH AMERICAN PHILIPS JUNCTION (SOUTH) - WEST MCPHERSON 115KV CKT 2  
 Direction: From->To  
 Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1  
 Flowgate: 57374574382568725687312208WP  
 Date Redispatch Needed: Starting 2008 12/1 - 4/1 Until EOC  
 Season Flowgate Identified: 2008 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090325	0.1	2
1090327	0.1	2

Table 5 - 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	Redispatch Amount (MW)
	1090662	0.1	2						
	1090674	0.1	2						
	1090747	0.1	2						
	1090756	0.1	2						
	1090816	0.1	2						
	1090817	0.1	2						
	1090826	0.1	2						
	1090827	0.1	2						
	1090828	0.1	2						
	1090829	0.1	2						
	1090839	0.1	2						
	1090841	0.1	2						
	1090853	0.1	2						
	1090922	0.9	2						
	1090923	0.2	2						
	1090964	0.1	2						
	1091055	0.1	2						
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26991	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04638	-0.31629	6
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26991	WERE	'BROWN COUNTY 115KV'	4	0.00266	-0.27257	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26991	WERE	'CHANUTE 69KV'	35	0.0014	-0.27131	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26991	WERE	'CITY OF AUGUSTA 69KV'	20	0.00041	-0.27032	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26991	WERE	'CITY OF BURLINGTON 69KV'	5	0.00262	-0.27253	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26991	WERE	'CITY OF ERIE 69KV'	4	0.0014	-0.27131	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26991	WERE	'CITY OF FREDONIA 69KV'	7	0.00109	-0.271	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26991	WERE	'CITY OF IOLA 69KV'	20	0.00165	-0.27156	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26991	WERE	'CITY OF MULVANE 69KV'	4	-0.00059	-0.26932	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26991	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00133	-0.26858	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26991	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00262	-0.27253	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26991	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00029	-0.2702	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26991	WERE	'HOLTON 115KV'	8	0.00818	-0.27809	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26991	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01578	-0.28569	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26991	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.0164	-0.28631	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26991	WERE	'LAWRENCE ENERGY CENTER 230KV'	174	0.0103	-0.28021	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26991	WERE	'SMOKEY HILLS 34KV'	25	0.0167	-0.28661	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26991	WERE	'SMOKYHIL 230 230KV'	72	0.0167	-0.28661	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26991	WERE	'SOUTH SENECA 115KV'	9	0.00184	-0.27175	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26991	WERE	'WACO 138KV'	17	-0.00224	-0.26767	7
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21352	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04638	-0.2599	7
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21331	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04638	-0.25969	7
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21352	WERE	'HOLTON 115KV'	8	0.00818	-0.2217	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21352	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01578	-0.2293	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21352	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.0164	-0.22992	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21352	WERE	'LAWRENCE ENERGY CENTER 230KV'	174	0.0103	-0.22382	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21352	WERE	'SMOKEY HILLS 34KV'	25	0.0167	-0.23022	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21352	WERE	'SMOKYHIL 230 230KV'	72	0.0167	-0.23022	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21331	WERE	'HOLTON 115KV'	8	0.00818	-0.22149	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21331	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01578	-0.22909	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21331	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.0164	-0.22971	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21331	WERE	'LAWRENCE ENERGY CENTER 230KV'	174	0.0103	-0.22361	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21331	WERE	'SMOKEY HILLS 34KV'	25	0.0167	-0.23001	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21331	WERE	'SMOKYHIL 230 230KV'	72	0.0167	-0.23001	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21352	WERE	'BROWN COUNTY 115KV'	4	0.00266	-0.21618	9
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21352	WERE	'CHANUTE 69KV'	35	0.0014	-0.21492	9
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21352	WERE	'CITY OF AUGUSTA 69KV'	20	0.00041	-0.21393	9
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21352	WERE	'CITY OF BURLINGTON 69KV'	5	0.00262	-0.21614	9
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21352	WERE	'CITY OF ERIE 69KV'	4	0.0014	-0.21492	9
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21352	WERE	'CITY OF FREDONIA 69KV'	7	0.00109	-0.21461	9
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21352	WERE	'CITY OF IOLA 69KV'	20	0.00165	-0.21517	9
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21352	WERE	'CITY OF MULVANE 69KV'	4	-0.00059	-0.21293	9
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21352	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00133	-0.21219	9
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21352	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00262	-0.21614	9
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21352	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00029	-0.21381	9
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21352	WERE	'SOUTH SENECA 115KV'	9	0.00184	-0.21536	9
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21352	WERE	'WACO 138KV'	17	-0.00224	-0.21128	9
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21331	WERE	'BROWN COUNTY 115KV'	4	0.00266	-0.21597	9
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21331	WERE	'CHANUTE 69KV'	35	0.0014	-0.21471	9
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21331	WERE	'CITY OF AUGUSTA 69KV'	20	0.00041	-0.21372	9
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21331	WERE	'CITY OF BURLINGTON 69KV'	5	0.00262	-0.21593	9
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21331	WERE	'CITY OF ERIE 69KV'	4	0.0014	-0.21471	9
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21331	WERE	'CITY OF FREDONIA 69KV'	7	0.00109	-0.2144	9
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21331	WERE	'CITY OF IOLA 69KV'	20	0.00165	-0.21496	9
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21331	WERE	'CITY OF MULVANE 69KV'	4	-0.00059	-0.21272	9
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21331	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00133	-0.21198	9
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21331	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00262	-0.21593	9
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21331	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00029	-0.2136	9
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21331	WERE	'SOUTH SENECA 115KV'	9	0.00184	-0.21515	9
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21331	WERE	'WACO 138KV'	17	-0.00224	-0.21107	9
WERE	'ST JOHN 115KV'	8	-0.11438	WERE	'CLAY CENTER JUNCTION 115KV'	7	0.04638	-0.16076	12
WERE	'ST JOHN 115KV'	8	-0.11438	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01578	-0.13016	14
WERE	'ST JOHN 115KV'	8	-0.11438	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.0164	-0.13078	14
WERE	'ST JOHN 115KV'	8	-0.11438	WERE	'SMOKEY HILLS 34KV'	25	0.0167	-0.13108	14
WERE	'ST JOHN 115KV'	8	-0.11438	WERE	'SMOKYHIL 230 230KV'	72	0.0167	-0.13108	14
WERE	'ST JOHN 115KV'	8	-0.11438	WERE	'HOLTON 115KV'	8	0.00818	-0.12256	15
WERE	'ST JOHN 115KV'	8	-0.11438	WERE	'LAWRENCE ENERGY CENTER 230KV'	174	0.0103	-0.12468	15
WERE	'ST JOHN 115KV'	8	-0.11438	WERE	'CHANUTE 69KV'	35	0.0014	-0.11578	16
WERE	'ST JOHN 115KV'	8	-0.11438	WERE	'CITY OF AUGUSTA 69KV'	20	0.00041	-0.11479	16
WERE	'ST JOHN 115KV'	8	-0.11438	WERE	'CITY OF FREDONIA 69KV'	7	0.00109	-0.11547	16
WERE	'ST JOHN 115KV'	8	-0.11438	WERE	'CITY OF IOLA 69KV'	20	0.00165	-0.11603	16
WERE	'ST JOHN 115KV'	8	-0.11438	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00262	-0.117	16
WERE	'ST JOHN 115KV'	8	-0.11438	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00029	-0.11467	16
WERE	'ST JOHN 115KV'	8	-0.11438	WERE	'SOUTH SENECA 115KV'	9	0.00184	-0.11622	16
WERE	'ST JOHN 115KV'	8	-0.11438	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00133	-0.11305	17
WERE	'ST JOHN 115KV'	8	-0.11438	WERE	'WACO 138KV'	17	-0.00224	-0.11214	17



Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

MIDW	'PAWNEE 115KV'	999	-0.11438	MIDW	'COLBY 115KV'	13	-0.03881	-0.07557	25
MIDW	'RICE 115KV'	999	-0.11438	MIDW	'COLBY 115KV'	13	-0.03881	-0.07557	25
MIDW	'PAWNEE 115KV'	999	-0.11438	MIDW	'KNOLL 3 115 115KV'	9999	-0.04855	-0.06583	28
MIDW	'RICE 115KV'	999	-0.11438	MIDW	'KNOLL 3 115 115KV'	9999	-0.04855	-0.06583	28
WEPL	'A. M. MULLERGREN GENERATOR 115KV'	63	-0.09374	WEPL	'HARPER 138KV'	15	-0.03126	-0.06248	30
WEPL	'NORTH WEST GREAT BEND 115KV'	14	-0.09374	WEPL	'HARPER 138KV'	15	-0.03126	-0.06248	30
WEPL	'A. M. MULLERGREN GENERATOR 115KV'	63	-0.09374	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	-0.05965	-0.03409	55

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: WICHITA - RENO 345KV  
 Limiting Facility: NORTH AMERICAN PHILIPS JUNCTION (SOUTH) - WEST MCPHERSON 115KV CKT 2  
 Direction: From->To  
 Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1  
 Flowgate: 57374574382568725687312211WP  
 Date Redispatch Needed: 12/1 - 4/1 Until EOC of Upgrade Starting 2009  
 Season Flowgate Identified: 2011 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090325	0.3	7
1090327	0.1	7
1090329	0.4	7
1090331	0.1	7
1090332	0.5	7
1090334	0.1	7
1090377	0.1	7
1090380	0.1	7
1090382	0.1	7
1090408	0.1	7
1090415	0.1	7
1090417	0.1	7
1090652	0.1	7
1090661	0.1	7
1090662	0.1	7
1090674	0.1	7
1090676	0.1	7
1090747	0.1	7
1090748	0.1	7
1090756	0.1	7
1090757	0.1	7
1090816	0.2	7
1090817	0.2	7
1090826	0.3	7
1090827	0.3	7
1090828	0.1	7
1090829	0.1	7
1090839	0.3	7
1090841	0.3	7
1090844	0.1	7
1090845	0.1	7
1090847	0.1	7
1090852	0.1	7
1090853	0.1	7
1090854	0.1	7
1090917	0.1	7
1090919	0.1	7
1090920	0.1	7
1090921	0.1	7
1090922	0.2	7
1090923	0.1	7
1090929	0.3	7
1090930	0.1	7
1090931	0.3	7
1090932	0.1	7
1090934	0.1	7
1090935	0.1	7
1090964	0.3	7
1090965	0.1	7
1091052	0.1	7
1091053	0.1	7
1091055	0.2	7
1091057	0.1	7

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26986	WERE	'HOLTON 115KV'	8	0.00818	-0.27804	23
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26986	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01577	-0.28563	23
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26986	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01639	-0.28625	23
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26986	WERE	'LAWRENCE ENERGY CENTER 230KV'	171	0.01024	-0.2801	23
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26986	WERE	'SMOKEY HILLS 34KV'	25	0.01673	-0.28659	23
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26986	WERE	'SMOKEYHIL 230 230KV'	36	0.01673	-0.28659	23
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26986	WERE	'TECUMSEH ENERGY CENTER 115KV'	27	0.01186	-0.28172	23
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26986	WERE	'CHANUTE 69KV'	55	0.0014	-0.27126	24
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26986	WERE	'CITY OF AUGUSTA 69KV'	20	0.00043	-0.27029	24
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26986	WERE	'CITY OF ERIE 69KV'	8	0.0014	-0.27126	24
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26986	WERE	'CITY OF IOLA 69KV'	16	0.00165	-0.27151	24
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26986	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00132	-0.26854	24
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26986	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00029	-0.27015	24
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26986	WERE	'WACO 138KV'	18	-0.00224	-0.26762	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.21347	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01577	-0.22924	28
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.21347	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01639	-0.22986	28
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.21347	WERE	'SMOKEY HILLS 34KV'	25	0.01673	-0.2302	28
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.21347	WERE	'SMOKEYHIL 230 230KV'	36	0.01673	-0.2302	28

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21326	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01577	-0.22903	28
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21326	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01639	-0.22965	28
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21326	WERE	'SMOKEY HILLS 34KV'	25	0.01673	-0.22999	28
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21326	WERE	'SMOKEYHIL 230 230KV'	36	0.01673	-0.22999	28
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.21347	WERE	'LAWRENCE ENERGY CENTER 230KV'	171	0.01024	-0.22371	29
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.21347	WERE	'TECUMSEH ENERGY CENTER 115KV'	27	0.01186	-0.22533	29
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21326	WERE	'LAWRENCE ENERGY CENTER 230KV'	171	0.01024	-0.2235	29
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21326	WERE	'TECUMSEH ENERGY CENTER 115KV'	27	0.01186	-0.22512	29
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.21347	WERE	'CHANUTE 69KV'	55	0.0014	-0.21487	30
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.21347	WERE	'CITY OF AUGUSTA 69KV'	20	0.00043	-0.2139	30
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.21347	WERE	'CITY OF IOLA 69KV'	16	0.00165	-0.21512	30
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.21347	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00029	-0.21376	30
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21326	WERE	'CHANUTE 69KV'	55	0.0014	-0.21466	30
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21326	WERE	'CITY OF AUGUSTA 69KV'	20	0.00043	-0.21369	30
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21326	WERE	'CITY OF IOLA 69KV'	16	0.00165	-0.21491	30
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21326	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00029	-0.21355	30
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.21347	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00132	-0.21215	31
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.21347	WERE	'WACO 138KV'	18	-0.00224	-0.21123	31
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21326	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00132	-0.21194	31
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21326	WERE	'WACO 138KV'	18	-0.00224	-0.21102	31
MIDW	'PAWNEE 115KV'	999	-0.11431	MIDW	'KNOLL 3 115 115KV'	9999	-0.04847	-0.06584	99
MIDW	'RICE 115KV'	999	-0.11431	MIDW	'KNOLL 3 115 115KV'	9999	-0.04847	-0.06584	99

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: WICHITA - RENO 345KV  
 Limiting Facility: NORTH AMERICAN PHILIPS JUNCTION (SOUTH) - WEST MCPHERSON 115KV CKT 2  
 Direction: From->To  
 Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1  
 Flowgate: 57374574382568725687314207SH  
 Date Redispatch Needed: 6/1 - 10/1 Until EOC of Upgrade  
 Season Flowgate Identified: 2007 Summer Shoulder

Reservation	Relief Amount	Aggregate Relief Amount
1090662		0.2
1090674		0.1

Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Redispatch Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26998	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06268	-0.33266	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26998	WERE	'CHANUTE 69KV'	47	0.0014	-0.27138	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26998	WERE	'CITY OF AUGUSTA 69KV'	20	0.00043	-0.27041	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26998	WERE	'CITY OF BURLINGTON 69KV'	5	0.00266	-0.27264	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26998	WERE	'CITY OF ERIE 69KV'	24	0.0014	-0.27138	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26998	WERE	'CITY OF FREDONIA 69KV'	10	0.0011	-0.27108	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26998	WERE	'CITY OF GIRARD 69KV'	3	0.00145	-0.27143	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26998	WERE	'CITY OF IOLA 69KV'	20	0.00163	-0.27161	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26998	WERE	'CITY OF MULVANE 69KV'	6	-0.00057	-0.26941	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26998	WERE	'CITY OF WELLINGTON 69KV'	36	-0.0013	-0.26868	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26998	WERE	'CLAY CENTER JUNCTION 115KV'	12	0.04639	-0.31637	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26998	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00266	-0.27264	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26998	WERE	'EVANS ENERGY CENTER 138KV'	305	0.00031	-0.27029	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26998	WERE	'GILL ENERGY CENTER 138KV'	155	-0.0025	-0.26748	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26998	WERE	'HOLTON 115KV'	16	0.00821	-0.27819	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26998	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01581	-0.28579	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26998	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01642	-0.2864	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26998	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00981	-0.27979	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26998	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.01031	-0.28029	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26998	WERE	'SOUTH SENECA 115KV'	13	0.00194	-0.27192	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26998	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.0119	-0.28188	1
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26998	WERE	'WACO 138KV'	18	-0.00222	-0.26776	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.2136	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06268	-0.27628	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.2136	WERE	'CHANUTE 69KV'	47	0.0014	-0.215	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.2136	WERE	'CITY OF AUGUSTA 69KV'	20	0.00043	-0.21403	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.2136	WERE	'CITY OF BURLINGTON 69KV'	5	0.00266	-0.21626	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.2136	WERE	'CITY OF ERIE 69KV'	24	0.0014	-0.215	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.2136	WERE	'CITY OF FREDONIA 69KV'	10	0.0011	-0.2147	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.2136	WERE	'CITY OF GIRARD 69KV'	3	0.00145	-0.21505	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.2136	WERE	'CITY OF IOLA 69KV'	20	0.00163	-0.21523	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.2136	WERE	'CITY OF MULVANE 69KV'	6	-0.00057	-0.21303	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.2136	WERE	'CITY OF WELLINGTON 69KV'	36	-0.0013	-0.2123	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.2136	WERE	'CLAY CENTER JUNCTION 115KV'	12	0.04639	-0.25999	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.2136	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00266	-0.21626	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.2136	WERE	'EVANS ENERGY CENTER 138KV'	305	0.00031	-0.21391	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.2136	WERE	'GILL ENERGY CENTER 138KV'	155	-0.0025	-0.2111	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.2136	WERE	'HOLTON 115KV'	16	0.00821	-0.22181	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.2136	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01581	-0.22941	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.2136	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01642	-0.23002	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.2136	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00981	-0.22341	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.2136	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.01031	-0.22391	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.2136	WERE	'SOUTH SENECA 115KV'	13	0.00194	-0.21554	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.2136	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.0119	-0.2255	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	291	-0.2136	WERE	'WACO 138KV'	18	-0.00222	-0.21138	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2135	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06268	-0.27618	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2135	WERE	'CHANUTE 69KV'	47	0.0014	-0.2149	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2135	WERE	'CITY OF AUGUSTA 69KV'	20	0.00043	-0.21393	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2135	WERE	'CITY OF BURLINGTON 69KV'	5	0.00266	-0.21616	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2135	WERE	'CITY OF ERIE 69KV'	24	0.0014	-0.2149	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2135	WERE	'CITY OF FREDONIA 69KV'	10	0.0011	-0.2146	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2135	WERE	'CITY OF GIRARD 69KV'	3	0.00145	-0.21495	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2135	WERE	'CITY OF IOLA 69KV'	20	0.00163	-0.21513	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2135	WERE	'CITY OF MULVANE 69KV'	6	-0.00057	-0.21293	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2135	WERE	'CITY OF WELLINGTON 69KV'	36	-0.0013	-0.2122	1

Table 5 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2135	WERE	'CLAY CENTER JUNCTION 115KV'	12	0.04639	-0.25989	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2135	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00266	-0.21616	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2135	WERE	'EVANS ENERGY CENTER 138KV'	305	0.00031	-0.21381	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2135	WERE	'GILL ENERGY CENTER 138KV'	155	-0.0025	-0.211	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2135	WERE	'HOLTON 115KV'	16	0.00821	-0.22171	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2135	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01581	-0.22931	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2135	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01642	-0.22992	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2135	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00981	-0.22331	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2135	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.01031	-0.22381	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2135	WERE	'SOUTH SENECA 115KV'	13	0.00194	-0.21544	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2135	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.0119	-0.2254	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2135	WERE	'WACO 138KV'	18	-0.00222	-0.21128	1
WERE	'ST JOHN 115KV'	8	-0.11444	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06268	-0.17712	1
WERE	'ST JOHN 115KV'	8	-0.11444	WERE	'CLAY CENTER JUNCTION 115KV'	12	0.04639	-0.16083	1
WERE	'ST JOHN 115KV'	8	-0.11444	WERE	'CHANUTE 69KV'	47	0.0014	-0.11584	2
WERE	'ST JOHN 115KV'	8	-0.11444	WERE	'CITY OF AUGUSTA 69KV'	20	0.00043	-0.11487	2
WERE	'ST JOHN 115KV'	8	-0.11444	WERE	'CITY OF BURLINGTON 69KV'	5	0.00266	-0.1171	2
WERE	'ST JOHN 115KV'	8	-0.11444	WERE	'CITY OF ERIE 69KV'	24	0.0014	-0.11584	2
WERE	'ST JOHN 115KV'	8	-0.11444	WERE	'CITY OF FREDONIA 69KV'	10	0.0011	-0.11554	2
WERE	'ST JOHN 115KV'	8	-0.11444	WERE	'CITY OF GIRARD 69KV'	3	0.00145	-0.11589	2
WERE	'ST JOHN 115KV'	8	-0.11444	WERE	'CITY OF IOLA 69KV'	20	0.00163	-0.11607	2
WERE	'ST JOHN 115KV'	8	-0.11444	WERE	'CITY OF MULVANE 69KV'	6	-0.00057	-0.11387	2
WERE	'ST JOHN 115KV'	8	-0.11444	WERE	'CITY OF WELLINGTON 69KV'	36	-0.0013	-0.11314	2
WERE	'ST JOHN 115KV'	8	-0.11444	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20	0.00266	-0.1171	2
WERE	'ST JOHN 115KV'	8	-0.11444	WERE	'EVANS ENERGY CENTER 138KV'	305	0.00031	-0.11475	2
WERE	'ST JOHN 115KV'	8	-0.11444	WERE	'GILL ENERGY CENTER 138KV'	155	-0.0025	-0.11194	2
WERE	'ST JOHN 115KV'	8	-0.11444	WERE	'HOLTON 115KV'	16	0.00821	-0.12265	2
WERE	'ST JOHN 115KV'	8	-0.11444	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01581	-0.13025	2
WERE	'ST JOHN 115KV'	8	-0.11444	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01642	-0.13086	2
WERE	'ST JOHN 115KV'	8	-0.11444	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00981	-0.12425	2
WERE	'ST JOHN 115KV'	8	-0.11444	WERE	'LAWRENCE ENERGY CENTER 230KV'	234	0.01031	-0.12475	2
WERE	'ST JOHN 115KV'	8	-0.11444	WERE	'SOUTH SENECA 115KV'	13	0.00194	-0.11638	2
WERE	'ST JOHN 115KV'	8	-0.11444	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.0119	-0.12634	2
WERE	'ST JOHN 115KV'	8	-0.11444	WERE	'WACO 138KV'	18	-0.00222	-0.11222	2
WERE	'BROWN COUNTY 115KV'	6	0.00271	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06268	-0.05997	3
WERE	'CHANUTE 69KV'	41	0.0014	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06268	-0.06128	3
WERE	'CITY OF AUGUSTA 69KV'	7	0.00043	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06268	-0.06225	3
WERE	'CITY OF BURLINGTON 69KV'	8	0.00266	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06268	-0.06002	3
WERE	'CITY OF ERIE 69KV'	3	0.0014	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06268	-0.06128	3
WERE	'CITY OF GIRARD 69KV'	8	0.00145	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06268	-0.06123	3
WERE	'CITY OF IOLA 69KV'	18	0.00163	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06268	-0.06105	3
WERE	'CITY OF MULVANE 69KV'	10	-0.00057	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06268	-0.06325	3
WERE	'CITY OF NEODESHA 69KV'	5	0.00101	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06268	-0.06167	3
WERE	'CITY OF WELLINGTON 69KV'	8	-0.0013	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06268	-0.06398	3
WERE	'CITY OF WINFIELD 69KV'	40	-0.00074	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06268	-0.06342	3
WERE	'EVANS ENERGY CENTER 138KV'	348	0.00031	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06268	-0.06237	3

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