



*Aggregate Facility Study
SPP-2006-AG2-AFS-4
For Transmission Service
Requested by
Aggregate Transmission Customers*

SPP Engineering, SPP Tariff Studies

SPP AGGREGATE FACILITY STUDY (SPP-2006-AG2-AFS-4)

January 29, 2007 (Revised April 4, 2007)

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1. Executive Summary

Pursuant to Attachment Z of the Southwest Power Pool Open Access Transmission Tariff (OATT), 1747 MW of long-term transmission service requests have been restudied in this Aggregate Facility Study (AFS). The first phase of the AFS consisted of a revision of the impact study to reflect the withdrawal of requests for which an Aggregate Facility Study Agreement was not executed. The principal objective of the AFS is to identify system problems and potential modifications necessary to facilitate these transfers while maintaining or improving system reliability as well as summarizing the operating limits and determination of the financial characteristics associated with facility upgrades.

Facility upgrade costs are allocated on a prorated basis to all requests positively impacting any individual overloaded facility. Further, Attachment Z provides for facility upgrade cost recovery by stating that “[a]ny charges paid by a customer in excess of the transmission access charges in compensation for the revenue requirements for allocated facility upgrade(s) shall be recovered by such customer from future transmission service revenues until the customer has been fully compensated.”

The total assigned facility upgrade Engineering and Construction (E &C) cost determined by the AFS is \$68,269,168. Additionally \$200,000 of assigned E & C cost for 3rd party facility upgrades are assignable to the customer. The total upgrade levelized revenue requirement for all transmission requests is \$160,269,654. This is based on full allocation of levelized revenue requirements for upgrades to customers without consideration of base plan funding. The AFS data tables reflect the allocation of upgrade costs to customers both with and without potential base plan funding based on either the requested reservation period or the deferred reservation period without redispatch if

applicable. Total upgrade levelized revenue requirements for all transmission requests after consideration of potential base plan funding is \$7,851,152.

Third-party facilities must be upgraded when it is determined they are constrained in order to accommodate the requested Transmission Service. These include both first-tier neighboring facilities outside SPP and Transmission Owner facilities within SPP that are not under the SPP OATT. In this AFS, third-party facilities were identified. Total engineering and construction cost estimates for required third-party facility upgrades are \$200,000.

The Transmission Provider will tender a Letter of Intent on Monday, January 29th, 2007. This will open a 15-day window for Customer response. To remain in the Aggregate Transmission Service Study (ATSS), the Transmission Provider must receive from the Transmission Customer (Customer) by February 13th, 2007, an executed Letter of Intent. The Letter of Intent will list options the Customer must choose to clarify their commitment to remain in the ATSS. The only action required on OASIS is to WITHDRAW the request or leave the request in STUDY mode.

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

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

2. Introduction

On January 21, 2005, the Federal Energy Regulatory Commission accepted Southwest Power Pool's proposed aggregate transmission study procedures in Docket ER05-109 to become effective February 1, 2005. The proposed cost allocation and cost recovery provisions were accepted for filing and suspended to become effective the earlier of five months from the requested effective date (July 1, 2005) or a further order of the Commission in the proceeding subject to refund. Since that time, the cost allocation and cost recovery provisions have been accepted with modification. The following link can be used to access the SPP Regulatory/FERC webpage: (http://www.spp.org/Objects/FERC_filings.cfm). The hyperlinks under the heading ER05-109 (Attach Z Filing) open Southwest Power Pool's October 29, 2004 filing containing Attachment Z to the SPP OATT and the Commission's January 21, 2005 Order. In compliance with this Order, the fourth open season commenced on February 1, 2006. All requests for long-term transmission service received prior to June 1, 2006 with a signed study agreement were then included in this fourth Aggregate Transmission Service Study (ATSS).

Approximately 2759MW of long-term transmission service has been restudied in this Aggregate Facility Study (AFS) with over \$335 Million in transmission upgrades being proposed. The results of the AFS are detailed in Tables 1 through 6. A highly tangible benefit of studying transmission requests aggregately under the SPP OATT Attachment Z is the sharing of costs among customers using the same facility. The detailed results show individual upgrade costs by study as well as potential base plan allowances as determined by Attachments J and Z. The following link can be used to access the SPP OATT: (http://www.spp.org/Publications/SPP_Tariff.pdf). In order to understand the extent to which base plan upgrades may be applied to both point-to-point and network transmission services, it is necessary to highlight the definition of Designated Resource.

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

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

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

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

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

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

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

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

Some constraints identified in the AFS were not assigned to the Customer as the Transmission Provider determined that upgrades are not required due to various reasons or the Transmission Owner has construction plans pending for these upgrades. These facilities are listed by reservation in Table 3. This table also includes constrained

facilities in the current planning horizon that limit the rollover rights of the Transmission Customer. Table 6 lists possible redispatch pairs to allow start of service prior to completion of assigned network upgrades.

A. Financial Analysis

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

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

In the event that the engineering and construction of a previously assigned Network Upgrade may be expedited, with no additional upgrades, to accommodate a new request for Transmission Service, then the levelized present worth of only the incremental expenses through the reservation period of the new request, excluding depreciation, shall be assigned to the new request. These incremental expenses, excluding depreciation,

include 1) the levelized difference in present worth of the engineering and construction expenses given the change in date to complete construction to account for additional interest expense and reduced engineering and construction expense due to inflation, 2) the levelized present worth of all expediting fees, and 3) the levelized present worth of the incremental annual carrying charges, excluding depreciation and interest, during the new reservation period taking into account both a) the reservation in which the project was originally assigned, and b) a reservation, if any, in which the project was previously expedited.

Achievable Base Plan Avoided Revenue Requirements in the case of a Base Plan upgrade being displaced by an earlier in service date for a Requested Upgrade shall be determined per Attachment J, Section VII.C methodology. Assumption of a 40 year service life is utilized for Base Plan funded projects unless noted otherwise by the Transmission Owner. A present worth analysis of revenue requirements on a common year basis between the Base Plan and Requested Upgrades was performed. The difference in present worth between the Base Plan and Requested Upgrades is assigned to the transmission requests impacting this upgrade.

B. Third-Party Facilities

For third-party facilities listed in Table 3 and Table 5, the Transmission Customer is responsible for funding the necessary upgrades of these facilities per Section 21.1 of the Transmission Provider's OATT. In this AFS, third-party facilities were identified. Total engineering and construction cost estimates for required third-party facility upgrades are \$200,000. The Transmission Provider will undertake reasonable efforts to assist the Transmission Customer in making arrangements for necessary engineering, permitting, and construction of the third-party facilities. Third-party facility upgrade engineering

and construction cost estimates are not utilized to determine the present worth value of levelized revenue requirements for SPP system network upgrades.

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

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

3. Study Methodology

A. Description

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

110% and 90%. The SPS Tuco 230 kV bus voltage is monitored at 92.5% due to pre-determined system stability limitations.

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

A 3 % transfer distribution factor (TDF) cutoff was applied to all SPP control area facilities. For first tier Non – SPP control area facilities, a 3 % TDF cutoff was applied to AECI, 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 fifteen seasonal models to study the aggregate transfers of 2759 MW over a variety of requested service periods. The SPP MDWG 2006 Series Cases Update 1 2006 Summer Peak (06SP), 2006 Summer Shoulder (06SH), 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 2759 MW in order to minimize counterflows among requested service. Each request was included in two to four groups depending on the requested path. From the thirteen seasonal models, three system scenarios were developed. Scenario 1 includes SWPP OASIS transmission requests not already included in the SPP 2006 Series Cases flowing in a West to East direction with ERCOT exporting and SPS exporting to outside zones and exporting to the Lamar HVDC Tie. Scenario 2 includes transmission requests not already included in the SPP 2006 Series Cases flowing in an East to West direction with ERCOT net importing and SPS importing from an outside zone and exporting to the Lamar HVDC Tie. Scenario 3 includes transmission requests not already included in the SPP 2006 Series Cases flowing in a West to East direction with ERCOT net importing and SPS importing from an outside zone 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. Curtailment and Redispatch Evaluation

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

SPP determined potential relief pairs to relieve the incremental MW impact on limiting facilities as identified in Table 6. Using the selected cases where the limiting facilities were identified, potential incremental and decremental units were identified by determining the generation amount available for increasing and decreasing from the units generation amount, maximum generation amount, and minimum generation amount. If

the incremental or decremental amount was greater than 1 MW, the unit was considered as a potential incremental or decremental unit. Generation shift factors were calculated for the potential incremental and decremental units using Managing and Utilizing System Transmission (MUST). From the generation shift factors for the incremental and decremental units, top 100 relief pairs 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. The redispatch requirements would be called upon prior to implementing NERC TLR Level 5a.

4. Study Results

A. Study Analysis Results

Tables 1 through 6 contain the steady-state analysis results of the ASIS. Table 1 identifies the participating long-term transmission service requests included in the AFS. This table lists deferred start and stop dates both with and without redispatch (based on customer selection of redispatch if available), the minimum annual allocated ATC without upgrades and season of first impact. Table 2 identifies total E & C cost allocated to each Transmission Customer, letter of credit requirements, third party E & C cost assignments, potential base plan E & C funding (lower of allocated E & C or Attachment J Section III B criteria) , total revenue requirements for assigned upgrades without consideration of potential base plan funding, point-to-point base rate charge, total revenue requirements for assigned upgrades with consideration of potential base plan funding, and final total cost allocation to the Transmission Customer. Table 3 provides additional details for each request including all assigned facility upgrades required, allocated E & C costs, allocated revenue requirements for upgrades, upgrades not

assigned to customer but required for service to be confirmed, facilities limiting rollover rights, credits to be paid for previously assigned AFS facility upgrades, and any third party upgrades required. This includes the season in the planning horizon where rollover rights are limited. Table 4 lists all upgrade requirements with associated solutions needed to provide transmission service for the AFS, Minimum ATC per upgrade with season of impact, Earliest Date Upgrade is required (COD), Estimated Date of Upgrade Completion (EOC), and Estimated E & C cost. Table 5 lists identified Third-Party constrained facilities. Table 6 identifies potential redispatch pairs available to relieve the aggregate impacts on identified constraints to prevent deferral of start of service.

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. 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 E & C cost for that portion of the 50MW request not exceeding 125% resource to load, or 25MW, would be compared to the E & C cost for the full 50MW to determine a prorata share of the cost that can be covered by base plan funding. Any allocated customer costs in excess of base plan funding will be assigned to the customer.

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

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

Example A:

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

Example B:

E & C allocated for upgrades is 74 million with revenue requirements of 140 million and PTP base rate of 101 million. Potential base plan funding is 10 million with the difference of 64 million E & C assignable to the customer. If the revenue requirements for this assignable portion is 128 million and the PTP base rate is 101 million the customer will pay the higher “OR” pricing of 128 million revenue requirements to be

paid back to the Transmission Owners and the remaining revenue requirements of (140-128) or 12 million will be paid by base plan funding.

Example C:

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

The 125% resource to load determination is performed on a per request basis and is not based on a total of designated resource requests per Customer. A footnote will provide the maximum resource designation allowable for base plan funding consideration per Customer basis per year.

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

B. Study Definitions

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

determined by the least amount of allocated seasonal ATC within each year of a reservation period.

5. Conclusion

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

The Transmission Provider will tender a Letter of Intent on Friday, October 4th, 2006. This will open a 15-day window for Customer response. To remain in the Aggregate Transmission Service Study (ATSS), the Transmission Provider must receive from the Transmission Customer (Customer) by October 19th, 2006, an executed Letter of Intent. The Letter of Intent will list options the Customer must choose to clarify their commitment to remain in the ATSS. The only action required on OASIS is to WITHDRAW the request or leave the request in STUDY mode.

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

Appendix A

PSS/E CHOICES IN RUNNING LOAD FLOW PROGRAM AND ACCC

BASE CASES:

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

1. Tap adjustment – Stepping
2. Area interchange control – Tie lines and loads
3. Var limits – Apply immediately
4. Solution options - Phase shift adjustment
 - Flat start
 - Lock DC taps
 - Lock switched shunts

ACCC CASES:

Solutions – AC contingency checking (ACCC)

1. MW mismatch tolerance – 0.5
2. Contingency case rating – Rate B
3. Percent of rating – 100
4. Output code – Summary
5. Min flow change in overload report – 3mw
6. 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 loads
3. Var limits - Apply automatically
4. Solution options - Phase shift adjustment
 - Flat start
 - Lock DC taps
 - Lock switched shunts

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

Customer	Study Number	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date without interim redispatch	Deferred Stop Date without interim redispatch	Start Date with interim redispatch	Stop Date with interim redispatch	Note	Minimum Allocated ATC (MW) within reservation period	Season of Minimum Allocated ATC within reservation period
AEPM	AG2-2006-033	1235046	EES	CSWS	225	1/1/2007	1/1/2010	6/1/2008	6/1/2011	4/1/2007	4/1/2010	1,2	0	08SP
AEPM	AG2-2006-034	1087757	CSWS	CSWS	172	6/1/2008	6/1/2028						0	08SP
EDE	AG2-2005-064	973355	KCPL	EDE	100	1/1/2010	1/1/2030					3	0	11SP
GSEC	AG2-2006-054	1090270	CSWS	CSWS	10	10/1/2006	10/1/2036	7/1/2009	7/1/2039				0	16SP
INDP	AG1-2006-051	1033791	KCPL	INDN	50	6/1/2010	6/1/2040					3	0	11SP
KCPS	GEN-2004-008	1115127	KCPL	KCPL	332	6/1/2009	6/1/2029					3	0	11SP
KCPS	AG1-2006-009	1179751	KCPL	KCPL	168	6/1/2009	6/1/2029					3	0	11SP
KEPC	AG2-2006-067	1090416	KCPL	WR	30	6/1/2010	6/1/2030						0	11SP
MIDW	AG2-2006-107	1090817	WR	WR	25	6/1/2007	6/1/2017	7/1/2009	7/1/2019	10/1/2007	10/1/2017	1,2	0	11SP
MIDW	AG2-2006-097	1090917	WR	WR	20	6/1/2008	6/1/2038	7/1/2009	7/1/2039	6/1/2008	6/1/2038	1,2	0	11WP
MIDW	AG2-2006-097	1090919	WR	WR	5	6/1/2008	6/1/2038	7/1/2009	7/1/2039	6/1/2008	6/1/2038	1,2	0	11WP
MIDW	AG2-2006-097	1090920	WR	WR	40	6/1/2008	6/1/2038	7/1/2009	7/1/2039	6/1/2008	6/1/2038	1,2	0	11WP
MIDW	AG2-2006-097	1090921	WR	WR	10	6/1/2008	6/1/2038	7/1/2009	7/1/2039	6/1/2008	6/1/2038	1,2	0	11WP
MIDW	AG2-2006-106	1090964	WR	WR	35	1/1/2007	1/1/2012	6/1/2010	6/1/2015	10/1/2007	10/1/2012	1,2	0	08SP
MIDW	AG2-2006-106	1090965	WR	WR	10	1/1/2007	1/1/2012	6/1/2010	6/1/2015	10/1/2007	10/1/2012	1,2	0	08SP
OGE	AG2-2006-035	1087908	OKGE	EES	10	12/1/2006	12/1/2011	11/1/2007	11/1/2012			1,2	0	0
SPSM	AG2-2006-074	1090699	WPEK	KCPL	50	10/1/06	1/1/12	10/1/2007	10/1/2013				0	07SP
SPSM	AG2-2006-124	1090705	WPEK	KCPL	50	10/1/06	1/1/12	10/1/2007	10/1/2013				0	07SP
UCU	AG2-2006-006	1104638	KCPL	MPS	160	6/1/2010	6/1/2030						0	11SP
WRGS	AG2-2006-016	1076158	KCPL	AMRN	20	6/1/2010	6/1/2015						0	11SP
WRGS	AG2-2006-030	1086655	OKGE	WR	225	10/1/2006	10/1/2026	7/1/2009	7/1/2029	4/1/2007	4/1/2027	1,2	0	16SP
					1747									

Note 1: Disregard Redispatch shown in Table 6 for limitations identified earlier than the start date with redispatch with the exception of limitations identified in the 2006 Fall Peak, 2007 Spring Peak, 2007 April Minimum, 2007 Summer Shoulder, and 2007 Fall Peak

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

Note 3: All previous transmission requests with a source of Iatan II were re-evaluated in this AFS due to determining an overall solution for the requested service.

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

Customer	Study Number	Reservation	⁷ Engineering and Construction Cost of Upgrades Allocated to Customer for Revenue Requirements	¹ Letter of Credit Amount Required	² Potential Base Plan Engineering and Construction Funding Allowable	NOTE	Additional Engineering and Construction Cost for 3rd Party Upgrades	³ Total Revenue Requirements for Assigned Upgrades over term of reservation without potential base plan funding allocation	³⁹ Total Revenue Requirements for Assigned Upgrades over term of reservation WITH potential base plan funding allocation	Point-to-Point Base Rate over reservation period	⁴ Total Cost of Reservation Assignable to Customer contingent upon base plan funding
AEPM	AG2-2006-033	1235046	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	Sch 9 Charges
AEPM	AG2-2006-034	1087757	\$ 3,000,000	\$ -	\$ 3,000,000			\$ 8,631,816	\$ -	\$ -	Sch 9 Charges
EDE	AG2-2005-064	973355	\$ 4,733,572	\$ -	\$ 3,502,843	8, 6		\$ 15,077,273	\$ 3,920,092	\$ -	\$ 3,920,092
GSEC	AG2-2006-054	1090270	\$ 70,000	\$ 70,000	\$ -	10	\$ 200,000	\$ 264,077	\$ 264,077	\$ -	\$ 464,077
INDP	AG1-2006-051	1033791	\$ 938,195	\$ 938,195	\$ -	6		\$ 3,340,156	\$ 3,340,156	\$ 15,840,000	\$ 15,840,000
KCPS	GEN-2004-008	1115127	\$ -	\$ -	\$ -	6		\$ -	\$ -	\$ -	Sch 9 Charges
KCPS	AG1-2006-009	1179751	\$ 4,161,805	\$ 3,461,805	\$ 4,161,805	6		\$ 10,566,295	\$ -	\$ -	Sch 9 Charges
KEPC	AG2-2006-067	1090416	\$ 17,090	\$ 17,090	\$ 17,090			\$ 59,915	\$ -	\$ -	Sch 9 Charges
MIDW	AG2-2006-107	1090817	\$ -	\$ -	\$ -					\$ -	Sch 9 Charges
MIDW	AG2-2006-097	1090917	\$ -	\$ -	\$ -					\$ -	Sch 9 Charges
MIDW	AG2-2006-097	1090919	\$ -	\$ -	\$ -					\$ -	Sch 9 Charges
MIDW	AG2-2006-097	1090920	\$ -	\$ -	\$ -					\$ -	Sch 9 Charges
MIDW	AG2-2006-097	1090921	\$ -	\$ -	\$ -					\$ -	Sch 9 Charges
MIDW	AG2-2006-106	1090964	\$ -	\$ -	\$ -					\$ -	Sch 9 Charges
MIDW	AG2-2006-106	1090965	\$ -	\$ -	\$ -					\$ -	Sch 9 Charges
OGE	AG2-2006-035	1087908	\$ -	\$ -	\$ -			\$ -	\$ -	\$ 540,000	\$ 540,000
SPSM	AG2-2006-074	1090699	\$ 75,000	\$ 75,000	\$ -			\$ 382,661	\$ 382,661	\$ 2,772,000	\$ 2,772,000
SPSM	AG2-2006-124	1090705	\$ 75,000	\$ 75,000	\$ -			\$ 382,661	\$ 382,661	\$ 2,772,000	\$ 2,772,000
UCU	AG2-2006-006	1104638	\$ -	\$ -	\$ -	5		\$ -	\$ -	\$ -	Sch 9 Charges
WRGS	AG2-2006-016	1076158	\$ -	\$ -	\$ -			\$ -	\$ -	\$ 1,080,000	\$ 1,080,000
WRGS	AG2-2006-030	1086655	\$ 54,896,021	\$ 27,380,487	\$ 54,896,021			\$ 121,313,926	\$ -	\$ -	Sch 9 Charges
Totals			\$ 67,966,683		\$ 65,577,759		\$ 200,000	\$ 160,018,780	\$ 8,289,647		

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

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

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

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

Note 5: UCU has a maximum of 161MW of resources in 2010 allowable for base funding for year 2010. This is a Network resource on UCU OASIS.

Note 6: All previous transmission requests with a source of Iatan II were re-evaluated in this AFS due to attempting to determine an overall solution for the requested service.

Note 7: E & C allocation for determination of allocated revenue requirements **does not** include those upgrades estimated at \$100,000 or less as these are base plan funded. Thus this number sets the cap for base plan funding allowable for remaining assigned upgrades. Allocated E & C in Table 3 **does** include those upgrades less than \$100,000 in order to establish the allocation per request per upgrade detail which is required for Letter of Credit determination.

Note 8: A ratio of total assignable \$4,733,572 for 100MW to the assignable portion above 125% resource to load cap or 26MW results in \$1,230,749 assignable to the customer.

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

Note 9: RR with base plan funding may increase or decrease even if no base plan funding is applicable to a particular request if another request that shares the upgrade is now full base plan funded resulting in a different amortization period for the upgrade and thus different RR.										
Note 10: \$200,000 to install Capacitor at GSEC bus and \$70,000 SPS cost for line tap which require revenue requirements is not a new DR to serve new delivery point.										

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

Customer Study Number
 AEPM AG2-2006-033

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
AEPM	1235046	EES	CSWS	225	1/1/2007	1/1/2010	6/1/2008	6/1/2011	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1087745	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
1087745	ALUMAX TAP - NORTHWEST TEXARKANA 138KV CKT 1	6/1/2008	6/1/2008		
	CHAMBER SPRINGS - TONTITOWN 161KV CKT 1	12/1/2008	6/1/2007		
	Chamber Springs - Tontitown 345 kV	6/1/2008	6/1/2008		
	Flint Creek - East Centerton 345 kV	6/1/2011	6/1/2011		
	LINWOOD - MCWILLIE STREET 138KV CKT 1	6/1/2007	6/1/2008		Yes

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

Customer Study Number
 AEPM AG2-2006-034

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
AEPM	1087757	CSWS	CSWS	172	6/1/2008	6/1/2028			\$ 3,000,000	\$ -	\$ 3,000,000	\$ 8,631,816
									\$ 3,000,000	\$ -	\$ 3,000,000	\$ 8,631,816

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1087757	SOUTHWEST SHREVEPORT (SW SHV 1) 345/138/13.8KV TRANSFORMER CKT 1	6/1/2010	6/1/2010			\$ 1,500,000	\$ 1,500,000	\$ 4,315,908
	SOUTHWEST SHREVEPORT (SW SHV 2) 345/138/13.8KV TRANSFORMER CKT 2	6/1/2010	6/1/2010			\$ 1,500,000	\$ 1,500,000	\$ 4,315,908
	Total					\$ 3,000,000	\$ 3,000,000	\$ 8,631,816

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	5 TRIBES - HANCOCK 161KV CKT 1	6/1/2014	6/1/2014		
	5 TRIBES - PECAN CREEK 161KV CKT 1	6/1/2014	6/1/2014		
	AGENCY - PECAN CREEK 161KV CKT 1	6/1/2014	6/1/2014		
	ALUMAX TAP - NORTHWEST TEXARKANA 138KV CKT 1	6/1/2008	6/1/2008		
	CHAMBER SPRINGS - TONTITOWN 161KV CKT 1	12/1/2008	6/1/2007		
	Chamber Springs - Tontitown 345 kV	6/1/2008	6/1/2008		
	Flint Creek - East Centerton 345 kV	6/1/2011	6/1/2011		
	LINWOOD - MCWILLIE STREET 138KV CKT 1	6/1/2007	6/1/2008		
	PECAN CREEK (PECANCK1) 345/161/13.8KV TRANSFORMER CKT 2	6/1/2014	6/1/2014		
	Siloam Springs - South Fayetteville 161 kV	6/1/2015	6/1/2015		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1087757	ARCADIA - REDBUD 345 KV CKT 1	6/1/2006	6/1/2006		
	ARCADIA - REDBUD 345 KV CKT 2	6/1/2006	6/1/2006		
	BEELINE - EXPLORER GLENPOOL 138KV CKT 1	6/1/2009	6/1/2009		
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	6/1/2009	6/1/2009		
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 OKGE	6/1/2009	6/1/2009		

Table 3 - 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 Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
GSEC	1090270	CSWS	CSWS	10	10/1/2006	10/1/2036	7/1/2009	7/1/2039	\$ -	\$ -	\$ 270,000	\$ 264,077
									\$ -	\$ -	\$ 270,000	\$ 264,077

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1090270	GSEC Midway Interconnection #1	6/1/2011	6/1/2011			\$ 70,000	\$ 70,000	\$ 264,077
	GSEC Midway Interconnection #2	6/1/2011	6/1/2011			\$ 200,000	\$ 200,000	\$ -
Total						\$ 270,000	\$ 270,000	\$ 264,077

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	ALTUS JCT TAP - RUSSELL 138KV CKT 1	6/1/2014	6/1/2014		
	CANADIAN - CEDAR LANE 138KV CKT 1	6/1/2015	6/1/2015		
	Hart Interchange 230/115 kV	6/1/2011	6/1/2011		
	Hitchland 345 and 115 kV Interchange	6/1/2010	6/1/2010		
	Mooreland - Potter 345 kV SPS	6/1/2015	6/1/2015		
	Mooreland - Potter 345 kV WFEC	6/1/2015	6/1/2015		
	Mooreland 345/138 kV Transformer	6/1/2015	6/1/2015		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 2	6/1/2015	6/1/2015		
	SNYDER AEPW- SNYDER WFEC INTERCONNECTION	6/1/2016	6/1/2016		
	Spearville - Mooreland 345 kV SUNC	6/1/2015	6/1/2015		
	Spearville - Mooreland 345 kV WFEC	6/1/2015	6/1/2015		
	Steline Project	6/1/2014	6/1/2014		
	Tex-Hitchland-Sherman Tap 115 kV ckt	6/1/2010	6/1/2010		
	THOMAS TAP - WEATHERFORD 69KV CKT 1	6/1/2014	6/1/2014		
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	WEATHERFORD SOUTHEAST (WTH_SE) 138/69/13.8KV TRANSFORMER CKT 1	6/1/2013	6/1/2013		

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	ARCADIA - REDBUD 345 KV CKT 1	6/1/2006	6/1/2006		
	ARCADIA - REDBUD 345 KV CKT 2	6/1/2006	6/1/2006		
	BEEELINE - EXPLORER GLENPOOL 138KV CKT 1	6/1/2009	6/1/2009		
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	6/1/2009	6/1/2009		
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 OKGE	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
1090270	HAMON BUTLER - MOREWOOD 69KV CKT 1	12/1/2006	4/1/2008		No
	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		No
	WICHITA - RENO 345KV	12/1/2006	7/1/2009		No

Table 3 - 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 Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KEPC	1090416	KCPL	WR	30	6/1/2010	6/1/2030			\$ 17,090	\$ -	\$ 17,090	\$ 59,915
									\$ 17,090	\$ -	\$ 17,090	\$ 59,915

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1090416	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW Displacement	6/1/2011	6/1/2011			\$ 5,167	\$ 500,000	\$ 17,801
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE Displacement	6/1/2011	6/1/2011			\$ 11,923	\$ 3,000,000	\$ 42,114
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	6/1/2011	6/1/2011			\$ -	\$ 5,000,000	\$ -
	Total					\$ 17,090	\$ 8,500,000	\$ 59,915

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	12/1/2006	6/1/2010		
	COFFEYVILLE SUB - CRA 69KV CKT 1	6/1/2011	6/1/2011		
	COFFEYVILLE SUB - DEARING 69KV CKT 1	6/1/2011	6/1/2011		
	COUNTY LINE - HOOK JCT 115KV CKT 1	6/1/2011	6/1/2011		
	COUNTY LINE - TECUMSEH HILL 115KV CKT 1	6/1/2011	6/1/2011		
	CRESWELL (CRESWL1X) 138/69/13.2KV TRANSFORMER	6/1/2012	6/1/2012		
	Evans - Grant - Chisolm Rebuild and Conversion Project	6/1/2008	6/1/2009		
	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1 #1	6/1/2011	6/1/2011		
	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1 #2	6/1/2011	6/1/2011		
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2013	6/1/2013		
	Stranger - Thorton 115 KV	6/1/2010	6/1/2010		
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2011	6/1/2011		
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 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
1090416	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2011		
	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
	WICHITA - RENO 345KV	12/1/2006	7/1/2009		

Table 3 - 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 Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
MIDW	1090917	WR	WR	20	6/1/2008	6/1/2038	7/1/2009	7/1/2039	\$ -	\$ -	\$ -	
MIDW	1090919	WR	WR	5	6/1/2008	6/1/2038	7/1/2009	7/1/2039	\$ -	\$ -	\$ -	
MIDW	1090920	WR	WR	40	6/1/2008	6/1/2038	7/1/2009	7/1/2039	\$ -	\$ -	\$ -	
MIDW	1090921	WR	WR	10	6/1/2008	6/1/2038	7/1/2009	7/1/2039	\$ -	\$ -	\$ -	
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1090917								
1090919					Total			
1090920					Total			
1090921					Total			
					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	
1090917	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014			
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			
	Mooreland - Potter 345 kV SPS	6/1/2015	6/1/2015			
	Mooreland - Potter 345 kV WFEC	6/1/2015	6/1/2015			
	Mooreland 345/138 kV Transformer	6/1/2015	6/1/2015			
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 2	6/1/2015	6/1/2015			
	Spearville - Mooreland 345 kV SUNC	6/1/2015	6/1/2015			
	Spearville - Mooreland 345 kV WFEC	6/1/2015	6/1/2015			
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	6/1/2015	6/1/2015			
	1090919	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014		
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014			
	Mooreland - Potter 345 kV SPS	6/1/2015	6/1/2015			
	Mooreland - Potter 345 kV WFEC	6/1/2015	6/1/2015			
	Mooreland 345/138 kV Transformer	6/1/2015	6/1/2015			
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 2	6/1/2015	6/1/2015			
	Spearville - Mooreland 345 kV SUNC	6/1/2015	6/1/2015			
	Spearville - Mooreland 345 kV WFEC	6/1/2015	6/1/2015			
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	6/1/2015	6/1/2015			
	1090920	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014		
		HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014		
Mooreland - Potter 345 kV SPS		6/1/2015	6/1/2015			
Mooreland - Potter 345 kV WFEC		6/1/2015	6/1/2015			
Mooreland 345/138 kV Transformer		6/1/2015	6/1/2015			
POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 2		6/1/2015	6/1/2015			
Spearville - Mooreland 345 kV SUNC		6/1/2015	6/1/2015			
Spearville - Mooreland 345 kV WFEC		6/1/2015	6/1/2015			
TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1		6/1/2015	6/1/2015			
1090921		HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014		
		HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014		
	Mooreland - Potter 345 kV SPS	6/1/2015	6/1/2015			
	Mooreland - Potter 345 kV WFEC	6/1/2015	6/1/2015			
	Mooreland 345/138 kV Transformer	6/1/2015	6/1/2015			
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 2	6/1/2015	6/1/2015			
	Spearville - Mooreland 345 kV SUNC	6/1/2015	6/1/2015			
	Spearville - Mooreland 345 kV WFEC	6/1/2015	6/1/2015			
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	6/1/2015	6/1/2015			

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1090917	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
	WICHITA - RENO 345KV	12/1/2006	7/1/2009		Yes
1090919	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
	WICHITA - RENO 345KV	12/1/2006	7/1/2009		Yes
1090920	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
	WICHITA - RENO 345KV	12/1/2006	7/1/2009		Yes
1090921	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
	WICHITA - RENO 345KV	12/1/2006	7/1/2009		Yes

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

Customer Study Number
 MIDW AG2-2006-106

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
MIDW	1090964	WR	WR	35	1/1/2007	1/1/2012	6/1/2010	6/1/2015				
MIDW	1090965	WR	WR	10	1/1/2007	1/1/2012	6/1/2010	6/1/2015				

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1090964								
1090965								
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
1090964	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	6/1/2007	6/1/2009		Yes
	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	12/1/2006	6/1/2010		Yes
	CLAY CENTER - GREENLEAF 115KV CKT 1	6/1/2007	6/1/2009		Yes
	COUNTY LINE - HOOK JCT 115KV CKT 1	6/1/2011	6/1/2011		
	COUNTY LINE - TECUMSEH HILL 115KV CKT 1	6/1/2011	6/1/2011		
	GILL ENERGY CENTER EAST - GILLJCT269.0 69KV CKT 1	6/1/2007	6/1/2008	10/1/2007	Yes
	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1 #1	6/1/2007	7/1/2007		Yes
	HAYS PLANT - SOUTH HAYS 115KV CKT 1	6/1/2008	6/1/2009	10/1/2008	Yes
	HAYS PLANT - VINE STREET 115KV CKT 1	6/1/2008	6/1/2009	10/1/2008	Yes
	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1 #1	6/1/2011	6/1/2011		
	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1 #2	6/1/2011	6/1/2011		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014		
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014		
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2010	6/1/2010		
1090965	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	6/1/2007	6/1/2009		Yes
	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	12/1/2006	6/1/2010		Yes
	CLAY CENTER - GREENLEAF 115KV CKT 1	6/1/2007	6/1/2009		Yes
	COUNTY LINE - HOOK JCT 115KV CKT 1	6/1/2011	6/1/2011		
	COUNTY LINE - TECUMSEH HILL 115KV CKT 1	6/1/2011	6/1/2011		
	GILL ENERGY CENTER EAST - GILLJCT269.0 69KV CKT 1	6/1/2007	6/1/2008	10/1/2007	Yes
	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1 #1	6/1/2007	7/1/2007		Yes
	HAYS PLANT - SOUTH HAYS 115KV CKT 1	6/1/2008	6/1/2009	10/1/2008	Yes
	HAYS PLANT - VINE STREET 115KV CKT 1	6/1/2008	6/1/2009	10/1/2008	Yes
	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1 #1	6/1/2011	6/1/2011		
	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1 #2	6/1/2011	6/1/2011		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014		
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014		
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2010	6/1/2010		

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
1090964	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		
1090965	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1090964	HEIZER TO KNOLL 230KV	6/1/2007	10/1/2007		No
	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2011		
	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
1090965	WICHITA - RENO 345KV	12/1/2006	7/1/2009		Yes
	HEIZER TO KNOLL 230KV	6/1/2007	10/1/2007		No
	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2011		
	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
	WICHITA - RENO 345KV	12/1/2006	7/1/2009		Yes

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

Customer Study Number
MIDW AG2-2006-107

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
MIDW	1090817	WR	WR	25	6/1/2007	6/1/2017	7/1/2009	7/2/2019				

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1090817								

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
1090817	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	6/1/2007	6/1/2009		Yes
	CLAY CENTER - GREENLEAF 115KV CKT 1	6/1/2007	6/1/2009		Yes
	COUNTY LINE - HOOK JCT 115KV CKT 1	6/1/2011	6/1/2011		
	COUNTY LINE - TECUMSEH HILL 115KV CKT 1	6/1/2011	6/1/2011		
	GILL ENERGY CENTER EAST - GILLJCT269.0 69KV CKT 1	6/1/2007	6/1/2008	10/1/2007	Yes
	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1 #1	6/1/2007	7/1/2007		Yes
	HAYS PLANT - SOUTH HAYS 115KV CKT 1	6/1/2008	6/1/2009	10/1/2008	Yes
	HAYS PLANT - VINE STREET 115KV CKT 1	6/1/2008	6/1/2009	10/1/2008	Yes
	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1 #1	6/1/2011	6/1/2011		
	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1 #2	6/1/2011	6/1/2011		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2014	6/1/2014		
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2014	6/1/2014		
	Mooreland - Potter 345 kV SPS	6/1/2015	6/1/2015		
	Mooreland - Potter 345 kV WFEC	6/1/2015	6/1/2015		
	Mooreland 345/138 kV Transformer	6/1/2015	6/1/2015		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 2	6/1/2015	6/1/2015		
	Spearville - Mooreland 345 kV SUNC	6/1/2015	6/1/2015		
	Spearville - Mooreland 345 kV WFEC	6/1/2015	6/1/2015		
	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	6/1/2010	6/1/2010		
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1090817	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1090817	HEIZER TO KNOLL 230KV	6/1/2007	10/1/2007		No
	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2011		
	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
	WICHITA - RENO 345KV	12/1/2006	7/1/2009		Yes

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

Customer Study Number
 OGE AG2-2006-035

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements	
OGE	1087908	OKGE	EES	10	12/1/2006	12/1/2011	11/1/2007	11/1/2012	\$ -	\$ 540,000	\$ -	\$ -	
										\$ -	\$ 540,000	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1087908	None					\$ -	\$ -	\$ -
Total						\$ -	\$ -	\$ -

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
1087908	ARCADIA - REDBUD 345 KV CKT 1	6/1/2006	6/1/2006		
	ARCADIA - REDBUD 345 KV CKT 2	6/1/2006	6/1/2006		
	FPL SWITCH - MOORELAND 138KV CKT 1 OKGE	6/1/2006	4/1/2008		
	FPL SWITCH - MOORELAND 138KV CKT 1 WFEC	6/1/2006	4/1/2008		
	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1087908	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2011		

Customer Study Number
 SPSM AG2-2006-074

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements	
SPSM	1090699	WPEK	KCPL	50	10/1/06	1/1/12	10/1/2007	1/1/2013	\$ -	\$ 2,772,000	\$ 75,000	\$ 382,662	
										\$ -	\$ 2,772,000	\$ 75,000	\$ 382,662

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1090699	MEDICINE LODGE - SUN CITY 115KV CKT 1	6/1/2007	1/1/2008	10/1/2007		\$ 75,000	\$ 150,000	\$ 124,058
	COLLEGE - CRAIG 161KV CKT 1 EXPEDITE	6/1/2011	6/1/2011			\$ -	\$ 700,000	\$ 258,604
Total						\$ 75,000	\$ 850,000	\$ 382,662

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	MARTIN CITY- TURNER ROAD SUBSTATION 161KV CKT 1	12/1/2006	10/1/2008	4/1/2007	
	GREENSBURG - JUDSON LARGE 115KV CKT 1	4/1/2007	10/1/2007		

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
1090699	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		

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

Customer Study Number
SPSM AG2-2006-124

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
SPSM	1090705	WPEK	KCPL	50	10/1/06	1/1/12	10/1/2007	1/1/2013	\$ -	\$ 2,772,000	\$ 75,000	\$ 382,662
									\$ -	\$ 2,772,000	\$ 75,000	\$ 382,662

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1090705	MEDICINE LODGE - SUN CITY 115KV CKT 1	6/1/2007	1/1/2008	10/1/2007		\$ 75,000	\$ 150,000	\$ 124,058
	COLLEGE - CRAIG 161KV CKT 1 EXPEDITE	6/1/2011	6/1/2011			\$ -	\$ 700,000	\$ 258,604
Total						\$ 75,000	\$ 850,000	\$ 382,662

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	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	12/1/2006	10/1/2008	4/1/2007	
	GREENSBURG - JUDSON LARGE 115KV CKT 1	4/1/2007	10/1/2007		

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
1090705	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		

Customer Study Number
UCU AG2-2006-006

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
UCU	1104638	KCPL	MPS	160	6/1/2010	6/1/2030			\$ -		\$ -	\$ -
									\$ -		\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1052923	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
1052923	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	12/1/2006	10/1/2008	4/1/2007	No
	Stranger - Thorton 115 kv	6/1/2010	6/1/2010		
	STRANGER CREEK TRANSFORMER CKT 2	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
1052923	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2011		

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

Customer Study Number
WRGS AG2-2006-016

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
WRGS	1076158	KCPL	AMRN	20	6/1/2010	6/1/2015			\$ -	\$ 1,080,000	\$ -	\$ -
									\$ -	\$ 1,080,000	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1076158	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
1076158	Stranger - Thornton 115 kV	6/1/2010	6/1/2010		
	STRANGER CREEK TRANSFORMER CKT 2	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
1076158	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2011		

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

Customer Study Number
 WRGS AG2-2006-030

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
WRGS	1086655	OKGE	WR	225	10/1/2006	10/1/2026	7/1/2009	7/1/2029	\$ 54,896,021	\$ -	\$ 54,896,021	\$ 121,313,926
									\$ 54,896,021	\$ -	\$ 54,896,021	\$ 121,313,926

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1086655	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW Displacement	6/1/2010*	6/1/2010*			\$ 40,828	\$ 500,000	\$ 136,797
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE Displacement	6/1/2010*	6/1/2010*			\$ 94,219	\$ 3,000,000	\$ 324,491
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	6/1/2011	6/1/2011			\$ -	\$ 5,000,000	\$ -
	Sooner to Rose Hill 345 kV OKGE	6/1/2016	6/1/2016			\$ 27,380,487	\$ 27,500,000	\$ 62,306,245
	Sooner to Rose Hill 345 kV WERE	6/1/2016	6/1/2016			\$ 27,380,487	\$ 27,500,000	\$ 58,546,393
	Total					\$ 54,896,021	\$ 63,500,000	\$ 121,313,926

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	COFFEYVILLE SUB - CRA 69KV CKT 1	6/1/2010*	6/1/2010*		
	COFFEYVILLE SUB - DEARING 69KV CKT 1	6/1/2010*	6/1/2010*		
	CRESWELL (CRESWL1X) 138/69/13.2KV TRANSFORMER	6/1/2012	6/1/2012		
	DEARING (DEARIN1X) 138/69/13.2KV TRANSFORMER CKT 1	12/1/2011	12/1/2011		
	Evans - Grant - Chisolm Rebuild and Conversion Project	6/1/2008	6/1/2009		Yes
	GILL ENERGY CENTER EAST - INTERSTATE 138KV CKT 1	6/1/2012	6/1/2012		
	Mooreland - Potter 345 kV SPS	6/1/2015	6/1/2015		
	Mooreland - Potter 345 kV WFEC	6/1/2015	6/1/2015		
	Mooreland 345/138 kV Transformer	6/1/2015	6/1/2015		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 2	6/1/2015	6/1/2015		
	Spearville - Mooreland 345 kV SUNC	6/1/2015	6/1/2015		
	Spearville - Mooreland 345 kV WFEC	6/1/2015	6/1/2015		
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2011	6/1/2011		
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1086655	LACYGNE - WEST GARDNER 345KV CKT 1	6/1/2006	6/1/2006		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1086655	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
	WICHITA - RENO 345KV	12/1/2006	7/1/2009		Yes

* See Note 12 in Table 2

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

Customer Study Number
EDE AG2-2005-064

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
EDE	973355	KCPL	EDE	100	1/1/2010	1/1/2030			\$ 3,502,843	\$ -	\$ 4,733,572	\$ 15,077,273
									\$ 3,502,843	\$ -	\$ 4,733,572	\$ 15,077,273

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
973355	SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1	6/1/2011	6/1/2011			\$ 3,387,204	\$ 5,400,000	\$ 10,788,850
	SUB 110 - ORONOGO JCT. (ORONOGO) 161/69/12.5KV TRANSFORMER CKT 1	6/1/2011	6/1/2011			\$ 1,346,368	\$ 2,000,000	\$ 4,288,423
					Total	\$ 4,733,572	\$ 7,400,000	\$ 15,077,273

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
973355	BULL SHOALS - BULL SHOALS 161KV CKT 1 SWPA	6/1/2011	6/1/2011		
	RIVERSIDE CAPACITOR	6/1/2015	6/1/2015		
	Line - JOPLIN 59 161 kV - SUB 439 - STATELINE	6/1/2016	6/1/2016		
	Line - SUB 59 - JOPLIN 26TH ST. - SUB 258 - GATEWAY SOUTH	6/1/2016	6/1/2016		
	XFR - JOPLIN 59 161 kV - SUB 59 - JOPLIN 26TH ST. 69kV	6/1/2016	6/1/2016		

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

Customer Study Number
 INDP AG1-2006-051

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
INDP	1033791	KCPL	INDN	50	6/1/2010	6/1/2040			\$ -	\$ 15,840,000	\$ 938,195	\$ 3,340,156
									\$ -	\$ 15,840,000	\$ 938,195	\$ 3,340,156

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1033791	166TH STREET - JAGGARD JUNCTION 115KV CKT 1	6/1/2009	6/1/2009			\$ 213,226	\$ 1,000,000	\$ 1,105,109
	166TH STREET - JARBALO JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2009	6/1/2009			\$ 405,130	\$ 1,900,000	\$ 577,384
	JAGGARD JUNCTION - PENTAGON 115KV CKT 1	6/1/2009	6/1/2009			\$ 319,839	\$ 1,500,000	\$ 1,657,663
					Total	\$ 938,195	\$ 4,400,000	\$ 3,340,156

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
1033791	Stranger - Thorton 115 kV	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
1033791	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2011		
	IATAN5 161 - PLATTE CITY 161KV CKT 1	6/1/2011	6/1/2011		

Note: Expansion Plan Project Stranger - Thorton 115 kV replaces 2006-AG1-AFS-4 assignment of STRANGER CREEK - NW LEAVENWORTH 115KV

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

Customer Study Number
 KCPS AG1-2006-009

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KCPS	1179751	KCPL	KCPL	168	6/1/2009	6/1/2029			\$ 4,161,805	\$ -	\$ 4,161,805	\$ 10,566,295
									\$ 4,161,805	\$ -	\$ 4,161,805	\$ 10,566,295

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1179751	166TH STREET - JAGGARD JUNCTION 115KV CKT 1	6/1/2009	6/1/2009			\$ 786,774	\$ 1,000,000	\$ 2,527,001
	166TH STREET - JARBALO JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2009	6/1/2009			\$ 1,494,870	\$ 1,900,000	\$ 1,529,261
	COLLEGE - CRAIG 161KV CKT 1	6/1/2016	6/1/2016			\$ 700,000	\$ 700,000	\$ 1,719,531
	JAGGARD JUNCTION - PENTAGON 115KV CKT 1	6/1/2009	6/1/2009			\$ 1,180,161	\$ 1,500,000	\$ 4,390,502
	Total					\$ 4,161,805	\$ 5,100,000	\$ 10,566,295

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
1179751	Stranger - Thorton 115 kv	6/1/2009	6/1/2009		
	AVONDALE - GLADSTONE 161KV 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
1179751	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2011		
	IATAN5 161 - PLATTE CITY 161KV CKT 1	6/1/2011	6/1/2011		

Note: Expansion Plan Project Stranger - Thorton 115 kv replaces 2006-AG1-AFS-4 assignment of STRANGER CREEK - NW LEAVENWORTH 115KV

Customer Study Number
 KCPS GEN-2004-008

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
KCPS	1115127	KCPL	KCPL	332	6/1/2009	6/1/2029			\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1115127	None					\$ -	\$ -	\$ -
	Total					\$ -	\$ -	\$ -

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

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (COD)	Estimated Date of Upgrade Completion (EOC)	Estimated Engineering & Construction Cost
AEPW	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW Displacement	Rebuild 1.09 miles of line using 1590 ACSR	6/1/2011	6/1/2011	\$500,000.00
AEPW	SOUTHWEST SHREVEPORT (SW SHV 1) 345/138/13.8KV TRANSFORMER CKT 1	Using IEEE Guide for Loading of Mineral-Oil Immersed Power Transformers (C57.91-2000) Re-rate the autos. Replace two 138 kV breakers and five 138 kV switches. Reset relays and CTs	6/1/2010	6/1/2010	\$1,500,000.00
AEPW	SOUTHWEST SHREVEPORT (SW SHV 2) 345/138/13.8KV TRANSFORMER CKT 2	Using IEEE Guide for Loading of Mineral-Oil Immersed Power Transformers (C57.91-2000) Re-rate the autos. Replace two 138 kV breakers and five 138 kV switches. Reset relays and CTs	6/1/2010	6/1/2010	\$1,500,000.00
EMDE	SUB 110 - ORONOGO JCT. - SUB 167 - RIVERTON 161KV CKT 1	Reconductor Oronogo 59467 to Riverton 59469 with Bundled 556 ACSR	6/1/2011	6/1/2011	\$ 5,400,000
EMDE	SUB 110 - ORONOGO JCT. (ORONOGO) 161/69/12.5KV TRANSFORMER CKT 1	Install new 161/12 kV 22.4 transformer and take load off 69 kV system	6/1/2011	6/1/2011	\$ 2,000,000
GSEC	GSEC Midway Interconnection #2	Install 7.2 MVAR Capacitor at GSEC Midway 69 kV	6/1/2011	6/1/2011	\$200,000.00
KACP	COLLEGE - CRAIG 161KV CKT 1	Reconductor 4 miles with 1192.5 ACSR, 558 normal/emergency rating and upgrade breaker.	6/1/2016	6/1/2016	\$700,000.00
OKGE	Sooner to Rose Hill 345 kV OKGE	New 345 kV line from Sooner to Oklahoma/Kansas	6/1/2016	6/1/2016	\$ 27,500,000
SPS	GSEC Midway Interconnection #1	New Delivery Point tapping 69 kV Tie Line from AEPW Shamrock to SPS Magic City	6/1/2011	6/1/2011	\$70,000.00
WEPL	MEDICINE LODGE - SUN CITY 115KV CKT 1	Replace relaying from Sun City to Medicine Lodge	6/1/2007	1/1/2008	\$150,000.00
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	\$1,000,000.00
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	\$1,900,000.00
WERE	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE Displacement	Tie Line, Rebuild 3.93 miles of 795 ACSR with 1590 ACSR.	6/1/2011	6/1/2011	\$3,000,000.00
WERE	JAGGARD JUNCTION - PENTAGON 115KV CKT 1	Tear down and rebuild Jaggard - Pentagon 115 kV line.	6/1/2009	6/1/2009	\$1,500,000.00
WERE	ROSE HILL (ROSEHLX) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	Add third 345-138 kV transformer at Rose Hill	4/6/95	4/6/95	\$ 5,000,000
WERE	Sooner to Rose Hill 345 kV WERE	New 345 kV line from Oklahoma/Kansas State line to Rose Hill	6/1/2016	6/1/2016	\$ 27,500,000
Construction Pending Projects - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.					\$79,420,000.00
Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (COD)	Estimated Date of Upgrade Completion (EOC)	
MIDW	HEIZER TO KNOLL 230KV	Convert Knoll to Heizer 115 kV line to 230kV (already constructed for 230kV).	6/1/2007	10/1/2007	
MIPU	IATANS 161 - PLATTE CITY 161KV CKT 1	Terminal Equipment	6/1/2011	6/1/2011	
MIPU	IATAN - ST JOE 345KV CKT 1	Circuit Breaker	6/1/2011	6/1/2011	
SPS	TERRY COUNTY INTERCHANGE 115/69KV TRANSFORMERS	Upgrade both existing transformer by 10/1/2007	6/1/2007	6/1/2007	
WERE	RENO - SUMMIT 345KV	Install new 50.55-mile 345 kV line from Reno county to Summit; 31 miles of 115 kV line between Circle and S Philips would be rebuilt as double circuit with the 345 kV line to minimize ROW impacts. Substation work required at Summit for new 345 kV terminal	1/1/2011	1/1/2011	
WERE	WICHITA - RENO 345KV	Build 345kV from Wichita to Reno Co	12/1/2006	7/1/2009	
WFEC	HAMON BUTLER - MOREWOOD 69KV CKT 1	Reconductor 1/0 to 336 ACSR - 15.0 miles	12/1/2006	4/1/2008	

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

Expansion Plan Projects - The requested service is contingent upon completion of the following upgrades. Cost is not assignable to the transmission customer.					
Transmission Owner	Upgrade	Solution	Earliest Date of Upgrade Required (COD)	Estimated Date of Upgrade Completion (EOC)	
AEPW	ALUMAX TAP - NORTHWEST TEXARKANA 138KV CKT 1	Rebuild 1.68 miles of 1024 ACAR with 2156 ACSR, Replace wavetraps & jumpers with 2156 ACSR. Replace Switch 2285 @ Alumax Tap.	6/1/2008	6/1/2008	
AEPW	CHAMBER SPRINGS - TONTITOWN 161KV CKT 1	Reconductor 666 ACSR (11.6 miles) and 1272 ACSR (.1 mile) to Drake ACCC (2156 ACSR section 0.6 miles is not replaced) and remove the series reactors at Chamber Springs on the Chamber Springs to Tontitown 161 kv line	12/1/2008	6/1/2007	
AEPW	Chamber Springs - Tontitown 345 KV	New 345 kv Line and Tontitown 345/161 kv Transformer	6/1/2008	6/1/2008	
AEPW	Flint Creek - East Center 345 KV	New 345 kv Line and East Center 345/161 kv Transformer	6/1/2011	6/1/2011	
AEPW	LINWOOD - MCWILLIE STREET 138KV CKT 1	Rebuild 2.09 miles of 666 ACSR with 1272 ACSR	6/1/2007	6/1/2008	
AEPW	Siloam Springs - South Fayetteville 161 kv	Convert Existing 69 kv Line to 161 kv Operation	6/1/2015	6/1/2015	
AEPW	THOMAS TAP - WEATHERFORD 69KV CKT 1	Rebuild 0.9 miles of 4/0 ACSR with 795 ACSR. Replace Weatherford wavetraps.	6/1/2014	6/1/2014	
AEPW	WEATHERFORD SOUTHEAST (WTH_SE) 138/69/13.8KV TRANSFORMER CKT 1	Install new 90 MVA Auto	6/1/2013	6/1/2013	
AEPW/WFEC	SNYDER AEPW- SNYDER WFEC INTERCONNECTION	New Tie line between AEPW's Snyder and WFEC's Snyder	6/1/2016	6/1/2016	
EMDE	Line - JOPLIN 59 161 kv - SUB 439 - STATELINE	Install new line from Sub #439 to new Sub Joplin 59.	6/1/2016	6/1/2016	
EMDE	Line - SUB 59 - JOPLIN 26TH ST. - SUB 258 - GATEWAY SOUTH	Reconductor 1.6 miles of 69kv Joplin sub 59 to GAT sub 258 with same conductor as 69kv Joplin sub 64 to Joplin sub 145	6/1/2016	6/1/2016	
EMDE	XFR - JOPLIN 59 161 kv - SUB 59 - JOPLIN 26TH ST. 69KV	Install 3-wind transformer from 161 kv Joplin 59 bus to Sub #59 Joplin 26th St.	6/1/2016	6/1/2016	
KACP	AVONDALE - GLADSTONE 161KV CKT 1	Replace 800 amp wavetraps at Gladstone with 1200 amp wavetraps	6/1/2014	6/1/2014	
MIDW	HAYS PLANT - SOUTH HAYS 115KV CKT 1	Reconductor line	6/1/2008	6/1/2009	
MIDW	HAYS PLANT - VINE STREET 115KV CKT 1	Reconductor line	6/1/2008	6/1/2009	
MIDW	HUNTSVILLE - ST JOHN 115KV CKT 1	Rebuild Huntsville - St. John 115 kv line and replace CT, wavetraps, breakers, and relays.	6/1/2014	6/1/2014	
MIDW/WERE	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	Rebuild HEC - Huntsville 115 kv line and replace CT, wavetraps and relays.	6/1/2014	6/1/2014	
MIPU	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	Replace Wavetraps at Martin City	12/1/2006	10/1/2008	
OKGE	5 TRIBES - HANCOCK 161KV CKT 1	Replace 800A Wave Trap, increase Relay CTR to 1200-5A.	6/1/2014	6/1/2014	
OKGE	5 TRIBES - PECAN CREEK 161KV CKT 1	replace 636AS33 conductor with 795AS33	6/1/2014	6/1/2014	
OKGE	AGENCY - PECAN CREEK 161KV CKT 1	replace Terminal Equipment	6/1/2014	6/1/2014	
OKGE	CANADIAN - CEDAR LANE 138KV CKT 1	Replace 800A trap at Cedar Lane	6/1/2015	6/1/2015	
OKGE	CONTINENTAL BLACKS - OSAGE 69KV CKT 1	Rebuild & Reconductor 0.57 Miles of 477AS33 to 477 ACCC/TW	6/1/2016	6/1/2016	
OKGE	PECAN CREEK (PECANCK1) 345/161/13.8KV TRANSFORMER CKT 2	Add a 345/161 kv 369MVA transformer	6/1/2014	6/1/2014	
SPS	BC-EARTH INTERCHANGE 115KV	Install 1 - 14.4 MVAR capacitor bank	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	6/1/2013	6/1/2013	
SPS	Hart Interchange 230/115 kv	New 115 kv Hart ring with 115 kv 397 ACSR ckt to Kress Int, 3-brkr 230 kv ring, 150 MVA auto, 115 kv terminal	6/1/2011	6/1/2011	
SPS	Hitchland 345 and 115 kv Interchange	Three breaker 345 kv bus, 345/115 kv transformer, five 115 kv breakers.	6/1/2010	6/1/2010	
SPS	KRESS INTERCHANGE 115/69KV TRANSFORMERS	Upgrade both existing transformer	4/1/2007	4/1/2007	
SPS	LC-SOL3 115KV	Install 14.4 MVAR cap at LC SOL	6/1/2016	6/1/2016	
SPS	Mooreland - Potter 345 kv SPS	New 345 kv line from Potter to Mooreland on wooden h-frame structures.	6/1/2015	6/1/2015	
SPS	MUSTANG STATION 230/115KV TRANSFORMER CKT 1	Install 252 MVA Transformer	4/1/2007	6/1/2008	
SPS	Potter - Roosevelt 345kv	New 345 kv circuit from Potter - Roosevelt 2-795 ACSR & 345/230 kv 560 MVA transformer	6/1/2013	6/1/2013	
SPS	POTTER COUNTY INTERCHANGE (POTTR_C0) 345/230/13.2KV TRANSFORMER CKT 2	New 345/230 kv 560 MVA transformer	6/1/2015	6/1/2015	
SPS	Pringle - Etter 115 kv	Build New 115 kv line from Pringle to Etter	6/1/2010	6/1/2010	
SPS	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	Adi 2nd transformer 230/115 kv 252 MVA	6/1/2013	6/1/2013	
SPS	Seven Rivers to Pecos to Potash Junction 230kv	Seven Rivers to Pecos to Potash Junction 230kv	6/1/2007	6/1/2009	
SPS	Stalene Project	Tap Elk City - Grapevine. New line from Stalene Tap to Graves Co. New 115/69kv at Graves Co.	6/1/2014	6/1/2014	
SPS	Tex-Hitchland-Sherman Tap 115 kv ckt	Route Sherman Tap to Texas Co in/out of New Hitchland Interchange	6/1/2010	6/1/2010	
SPS	TUCO INTERCHANGE 115/69KV TRANSFORMER	Move Load to 115 kv at TUCO	6/1/2008	6/1/2008	
SPS	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	Install 345/115 kv Transformer at Tuco	6/1/2015	6/1/2015	
SUNC	Spanville - Mooreland 345 kv SUNC	New 345 kv line from Spanville to Kansas/Oklahoma Stalene	6/1/2015	6/1/2015	
WEPL	CLAY CENTER - GREENLEAF 115KV CKT 1	Building a new 115 kv tie with Westar from Greenleaf to Clay Center	6/1/2007	6/1/2009	
WEPL	GREENSBURG - JUDSON LARGE 115KV CKT 1	Replace relaying	4/1/2007	10/1/2007	
WERE	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	Reset terminal equipment	6/1/2007	6/1/2009	
WERE	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	Rebuild 16.66 mile Circleville-Hoyt HTI Junction 115 kv line.	12/1/2006	6/1/2010	
WERE	COFFEYVILLE SUB - CRA 69KV CKT 1	Rebuild Coffeyville - CRA 69 kv line.	6/1/2011	6/1/2011	
WERE	COFFEYVILLE SUB - DEARING 69KV CKT 1	Rebuild Dearing - Coffeyville 69 kv line.	6/1/2011	6/1/2011	
WERE	COUNTY LINE - HOOK JCT 115KV CKT 1	Rebuild 2.52 mile line with 1192.5 kmil ACSR	6/1/2011	6/1/2011	
WERE	COUNTY LINE - TECUMSEH HILL 115KV CKT 1	Tear down and rebuild 5.32 mile TEC-Tecumseh Hill-County Line 115 kv line.	6/1/2011	6/1/2011	
WERE	CRESWELL (CRESWILX) 138/69/13.2KV TRANSFORMER	Replace transformers	6/1/2012	6/1/2012	
WERE	DEARING (DEARINX) 138/69/13.2KV TRANSFORMER CKT 1	2nd Dearing 138-69 kv Transformer	12/1/2011	12/1/2011	
WERE	Evans - Grant - Chisolm Rebuild and Conversion Project	Build Evans - Grant 138 kv line, Convert Grant - Chisolm 69 kv line to 138 kv, Install New Grant 138/69 kv XFMR. And Rebuild Grant - Grant Jct. 69 kv line.	6/1/2008	6/1/2009	
WERE	GILL ENERGY CENTER EAST - GILLJCT269.0 69KV CKT 1	Rebuild Gill-Gill Jct	6/1/2007	6/1/2008	
WERE	GILL ENERGY CENTER EAST - INTERSTATE 138KV CKT 1	Replace wave trap	6/1/2012	6/1/2012	
WERE	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1 #1	Replace bus, jumpers and disconnect switches at MacArthur 69 kv substation to increase line capacity to conductor rating	6/1/2007	7/1/2007	
WERE	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1 #1	Replace wave traps on TEC-County Line 115 kv line.	6/1/2011	6/1/2011	
WERE	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1 #2	Rebuild 1.52 mile line with 1192.5 kmil ACSR	6/1/2011	6/1/2011	
WERE	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	Replace bus and jumpers at NE Parsons 138 kv substation	6/1/2013	6/1/2013	
WERE	Stranger - Thorton 115 kv	Build Stranger - Thorton 115kv	6/1/2009	6/1/2009	
WERE	STRANGER CREEK TRANSFORMER CKT 2	Install second Stranger Creek 345-115 transformer	6/1/2011	6/1/2011	
WERE	TECUMSEH ENERGY CENTER - TECUMSEH HILL 115KV CKT 1	Upgrade 0.24 mile TEC-Tecumseh Hill 115 kv line to 100 degree operation.	6/1/2010	6/1/2010	
WFEC	ALTUS JCT TAP - RUSSELL 138KV CKT 1	Change CT Ratio	6/1/2014	6/1/2014	
WFEC	Mooreland - Potter 345 kv WFEC	345 kv line Terminal	6/1/2015	6/1/2015	
WFEC	Mooreland 345/138 kv Transformer	New Mooreland 345/138 kv Transformer	6/1/2015	6/1/2015	
WFEC	Spanville - Mooreland 345 kv WFEC	New 345 kv line from Kansas/Oklahoma Stalene to Mooreland	6/1/2015	6/1/2015	
Previously Assigned Aggregate Study Upgrades requiring credits to Previous Aggregate Study Customers					
Transmission Owner	Upgrade	Solution	Earliest Date of Upgrade Required (COD)	Estimated Date of Upgrade Completion (EOC)	
AEPW	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	Reconductor 1.9 miles with ACCC. Replace wave trap jumpers at Riverside.	6/1/2009	6/1/2009	
KACP	LACYGNE - WEST GARDNER 345KV CKT 1	KCPL Sponsored Project to Reconductor Line to be In-Service by 6/1/2006	6/1/2006	6/1/2006	
OKGE	ARCADIA - REDBUD 345 kv CKT 1	Sponsored Project to Upgrade Terminal Equipment	6/1/2006	6/1/2006	
OKGE	ARCADIA - REDBUD 345 kv CKT 2	Sponsored Project to Upgrade Terminal Equipment	6/1/2006	6/1/2006	
OKGE	BEE LINE - EXPLORER GLENPOOL 138KV CKT 1	Reconductor .92miles of line with Drake ACCC/TW.	6/1/2009	6/1/2009	
OKGE	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 OKGE	Reconductor 1.82 miles line with Drake ACCC/TW.	6/1/2009	6/1/2009	
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.	6/1/2006	4/1/2008	
WFEC	FPL SWITCH - MOORELAND 138KV CKT 1 WFEC	Upgrade terminal equipment FPL Sw & Mooreland	6/1/2006	4/1/2008	

Table 5 - Third Party Facility Constraints

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)	Estimated Engineering & Construction Cost
GSEC	GSEC Midway Interconnection #2	Install 7.2 MVAR Capacitor at GSEC Midway 69 kV			6/1/2011	6/1/2011	\$200,000.00

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

Upgrade: CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1 & CLAY CENTER - GREENLEAF 115KV CKT 1
 Limiting Facility: KELLY - SOUTH SENECA 115KV CKT 1
 Direction: From->To
 Line Outage: CONCORDIA - EAST MANHATTAN 230KV CKT 1
 Flowgate: 5721757337158758586112207SH
 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	Aggregate Redispatch Amount (MW)
1090817	1.1	3.1	WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.00423	-0.88358	3
1090964	1.5	3.1	WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'CHANUTE 69KV'	46.617	-0.00059	-0.87876	4
1090965	0.4	3.1	WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'CITY OF BURLINGTON 69KV'	4.8	-0.00067	-0.87868	4
			WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'CITY OF ERIE 69KV'	23.258	-0.00059	-0.87876	4
			WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'CITY OF FREDONIA 69KV'	2.496	-0.00067	-0.87868	4
			WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'CITY OF GIRARD 69KV'	2.989	-0.00057	-0.87878	4
			WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'CITY OF IOLA 69KV'	19.865	-0.00052	-0.87883	4
			WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'CITY OF MULVANE 69KV'	6.189	-0.00183	-0.87752	4
			WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'CITY OF WELLINGTON 69KV'	31.07001	-0.00205	-0.87773	4
			WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	-0.00087	-0.87868	4
			WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'EVANS ENERGY CENTER 138KV'	305	-0.00181	-0.87754	4
			WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00282	-0.87673	4
			WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00169	-0.87766	4
			WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00193	-0.87742	4
			WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00179	-0.88114	4
			WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'LAWRENCE ENERGY CENTER 230KV'	230.2191	0.00132	-0.88067	4
			WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'WACO 138KV'	17.947	-0.00253	-0.87682	4
WEPL	'RUSSELL 115KV'	27.9	-0.14239	WEPL	'GRAY COUNTY WIND FARM 115KV'	73	-0.02842	-0.11397	27			
WEPL	'RUSSELL 115KV'	27.9	-0.14239	WEPL	'JUDSON LARGE 115KV'	99.9321	-0.02839	-0.114	27			
WERE	'KNOLL 3 115 115KV'	75	-0.06968	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.00423	-0.07391	42			
WERE	'KNOLL 3 115 115KV'	75	-0.06968	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00179	-0.07147	43			
WERE	'KNOLL 3 115 115KV'	75	-0.06968	WERE	'LAWRENCE ENERGY CENTER 230KV'	230.2191	0.00132	-0.071	43			
WERE	'KNOLL 3 115 115KV'	75	-0.06968	WERE	'CITY OF ERIE 69KV'	23.258	-0.00059	-0.06909	45			
WERE	'KNOLL 3 115 115KV'	75	-0.06968	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	-0.00067	-0.06901	45			
WERE	'KNOLL 3 115 115KV'	75	-0.06968	WERE	'EVANS ENERGY CENTER 138KV'	305	-0.00181	-0.06787	45			
WERE	'KNOLL 3 115 115KV'	75	-0.06968	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00169	-0.06799	45			
WERE	'KNOLL 3 115 115KV'	75	-0.06968	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00282	-0.06706	46			
WERE	'KNOLL 3 115 115KV'	75	-0.06968	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00193	-0.06775	46			
WERE	'KNOLL 3 115 115KV'	75	-0.06968	WERE	'WACO 138KV'	17.947	-0.00253	-0.06715	46			
WERE	'PAWNEE 115KV'	999	-0.03835	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.00423	-0.04258	72			
WERE	'RICE 115KV'	999	-0.03835	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.00423	-0.04258	72			
WERE	'PAWNEE 115KV'	999	-0.03835	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00179	-0.04014	77			
WERE	'RICE 115KV'	999	-0.03835	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00179	-0.04014	77			
WERE	'PAWNEE 115KV'	999	-0.03835	WERE	'LAWRENCE ENERGY CENTER 230KV'	230.2191	0.00132	-0.03967	78			
WERE	'RICE 115KV'	999	-0.03835	WERE	'LAWRENCE ENERGY CENTER 230KV'	230.2191	0.00132	-0.03967	78			
WERE	'PAWNEE 115KV'	999	-0.03835	WERE	'EVANS ENERGY CENTER 138KV'	305	-0.00181	-0.03654	84			
WERE	'RICE 115KV'	999	-0.03835	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00169	-0.03666	84			
WERE	'RICE 115KV'	999	-0.03835	WERE	'EVANS ENERGY CENTER 138KV'	305	-0.00181	-0.03654	84			
WERE	'RICE 115KV'	999	-0.03835	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00169	-0.03666	84			
WERE	'PAWNEE 115KV'	999	-0.03835	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00193	-0.03642	85			
WERE	'RICE 115KV'	999	-0.03835	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00193	-0.03642	85			
WERE	'PAWNEE 115KV'	999	-0.03835	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00282	-0.03573	86			
WERE	'RICE 115KV'	999	-0.03835	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00282	-0.03573	86			
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.0255	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.00423	-0.03003	103			
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.02581	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.00423	-0.03004	103			

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

Upgrade: CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1 & CLAY CENTER - GREENLEAF 115KV CKT 1
 Limiting Facility: KELLY - SOUTH SENECA 115KV CKT 1
 Direction: From->To
 Line Outage: CONCORDIA (CONCORD6) 230/115/113.8KV TRANSFORMER CKT 1
 Flowgate: 57217573371CONCORD66312207SH
 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	Aggregate Redispatch Amount (MW)
1090817	1.1	3.1	WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.00423	-0.88358	3
1090964	1.5	3.1	WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'CHANUTE 69KV'	46.617	-0.00059	-0.87876	4
1090965	0.4	3.1	WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'CITY OF BURLINGTON 69KV'	4.8	-0.00067	-0.87868	4
			WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'CITY OF ERIE 69KV'	23.258	-0.00059	-0.87876	4
			WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'CITY OF FREDONIA 69KV'	2.496	-0.00067	-0.87868	4
			WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'CITY OF GIRARD 69KV'	2.989	-0.00057	-0.87878	4
			WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'CITY OF IOLA 69KV'	19.865	-0.00052	-0.87883	4
			WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'CITY OF MULVANE 69KV'	6.189	-0.00183	-0.87752	4
			WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'CITY OF WELLINGTON 69KV'	31.07001	-0.00205	-0.87773	4
			WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	-0.00087	-0.87868	4
			WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'EVANS ENERGY CENTER 138KV'	305	-0.00181	-0.87754	4
			WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00282	-0.87673	4
			WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00169	-0.87766	4
			WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00193	-0.87742	4
			WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00179	-0.88114	4
			WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'LAWRENCE ENERGY CENTER 230KV'	230.2191	0.00132	-0.88067	4
			WERE	'SOUTH SENECA 115KV'	16.7	-0.87935	WERE	'WACO 138KV'	17.947	-0.00253	-0.87682	4
WEPL	'RUSSELL 115KV'	27.9	-0.14239	WEPL	'GRAY COUNTY WIND FARM 115KV'	73	-0.02842	-0.11397	27			
WEPL	'RUSSELL 115KV'	27.9	-0.14239	WEPL	'JUDSON LARGE 115KV'	99.9321	-0.02839	-0.114	27			
WERE	'KNOLL 3 115 115KV'	75	-0.06968	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.00423	-0.07391	42			
WERE	'KNOLL 3 115 115KV'	75	-0.06968	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00179	-0.07147	43			
WERE	'KNOLL 3 115 115KV'	75	-0.06968	WERE	'LAWRENCE ENERGY CENTER 230KV'	230.2191	0.00132	-0.071	43			
WERE	'KNOLL 3 115 115KV'	75	-0.06968	WERE	'CITY OF ERIE 69KV'	23.258	-0.00059	-0.06909	45			
WERE	'KNOLL 3 115 115KV'	75	-0.06968	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	-0.00067	-0.06901	45			
WERE	'KNOLL 3 115 115KV'	75	-0.06968	WERE	'EVANS ENERGY CENTER 138KV'	305	-0.00181	-0.06787	45			
WERE	'KNOLL 3 115 115KV'	75	-0.06968	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00169	-0.06799	45			
WERE	'KNOLL 3 115 115KV'	75	-0.06968	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00282	-0.06706	46			
WERE	'KNOLL 3 115 115KV'	75	-0.06968	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00193	-0.06775	46			
WERE	'KNOLL 3 115 115KV'	75	-0.06968	WERE	'WACO 138KV'	17.947	-0.00253	-0.06715	46			
WERE	'PAWNEE 115KV'	999	-0.03835	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.00423	-0.04258	72			
WERE	'RICE 115KV'	999	-0.03835	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.00423	-0.04258	72			
WERE	'PAWNEE 115KV'	999	-0.03835	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00179	-0.04014	77			
WERE	'RICE 115KV'	999	-0.03835	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00179	-0.04014	77			
WERE	'PAWNEE 115KV'	999	-0.03835	WERE	'LAWRENCE ENERGY CENTER 230KV'	230.2191	0.00132	-0.03967	78			

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

WERE	'RICE 115KV'	999	-0.03835	WERE	'LAWRENCE ENERGY CENTER 230KV'	230.2191	0.00132	-0.03967	78
WERE	'PAWNEE 115KV'	999	-0.03835	WERE	'EVANS ENERGY CENTER 138KV'	305	-0.00181	-0.03654	84
WERE	'PAWNEE 115KV'	999	-0.03835	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00169	-0.03666	84
WERE	'RICE 115KV'	999	-0.03835	WERE	'EVANS ENERGY CENTER 138KV'	305	-0.00181	-0.03654	84
WERE	'RICE 115KV'	999	-0.03835	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00169	-0.03666	84
WERE	'PAWNEE 115KV'	999	-0.03835	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00193	-0.03642	85
WERE	'RICE 115KV'	999	-0.03835	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00193	-0.03642	85
WERE	'PAWNEE 115KV'	999	-0.03835	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00282	-0.03573	86
WERE	'RICE 115KV'	999	-0.03835	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00282	-0.03573	86
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.02581	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.00423	-0.03003	103
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.02581	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.00423	-0.03004	103

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

Upgrade: CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1
 Limiting Facility: CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1
 Direction: To->From
 Line Outage: CONCORDIA - EAST MANHATTAN 230KV CKT 1
 Flowgate: 57152571651587585686114406WP
 Date Redispatch Needed: 12/1/06 - 4/1/07
 Season Flowgate Identified: 2006 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090964	0.2	0.3
1090965	0.1	0.3

Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
WERE	'HOLTON 115KV'	19.8	-0.67909	WERE	'CHANUTE 69KV'	35.344	0.00472	-0.68381	0
WERE	'HOLTON 115KV'	19.8	-0.67909	WERE	'CITY OF AUGUSTA 69KV'	17.25201	-0.00279	-0.6763	0
WERE	'HOLTON 115KV'	19.8	-0.67909	WERE	'CITY OF BURLINGTON 69KV'	4.8	0.00844	-0.68753	0
WERE	'HOLTON 115KV'	19.8	-0.67909	WERE	'CITY OF ERIE 69KV'	1.998	0.00472	-0.68381	0
WERE	'HOLTON 115KV'	19.8	-0.67909	WERE	'CITY OF FREDONIA 69KV'	1.298	0.00377	-0.68286	0
WERE	'HOLTON 115KV'	19.8	-0.67909	WERE	'CITY OF GIRARD 69KV'	1.493	0.00585	-0.68494	0
WERE	'HOLTON 115KV'	19.8	-0.67909	WERE	'CITY OF IOLA 69KV'	13.978	0.00547	-0.68456	0
WERE	'HOLTON 115KV'	19.8	-0.67909	WERE	'CITY OF MULVANE 69KV'	3.694	0.00398	-0.68307	0
WERE	'HOLTON 115KV'	19.8	-0.67909	WERE	'CITY OF WELLINGTON 69KV'	24	0.00392	-0.68301	0
WERE	'HOLTON 115KV'	19.8	-0.67909	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.00844	-0.68753	0
WERE	'HOLTON 115KV'	19.8	-0.67909	WERE	'COLBY 115KV'	6.639483	-0.01029	-0.6668	0
WERE	'HOLTON 115KV'	19.8	-0.67909	WERE	'EVANS ENERGY CENTER 138KV'	118.696	0.00599	-0.68508	0
WERE	'HOLTON 115KV'	19.8	-0.67909	WERE	'HUTCHINSON ENERGY CENTER 115KV'	40	0.01275	-0.69194	0
WERE	'HOLTON 115KV'	19.8	-0.67909	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03451	-0.7136	0
WERE	'HOLTON 115KV'	19.8	-0.67909	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03481	-0.7139	0
WERE	'HOLTON 115KV'	19.8	-0.67909	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.0283	-0.70739	0
WERE	'HOLTON 115KV'	19.8	-0.67909	WERE	'LAWRENCE ENERGY CENTER 230KV'	225.5185	0.02863	-0.70772	0
WERE	'HOLTON 115KV'	19.8	-0.67909	WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.04357	-0.72266	0
WERE	'HOLTON 115KV'	19.8	-0.67909	WERE	'WACO 138KV'	17.953	0.00468	-0.68377	0
WERE	'BROWN COUNTY 115KV'	5.5	-0.32638	WERE	'CHANUTE 69KV'	35.344	0.00472	-0.3311	1
WERE	'BROWN COUNTY 115KV'	5.5	-0.32638	WERE	'CITY OF AUGUSTA 69KV'	17.25201	-0.00279	-0.32559	1
WERE	'BROWN COUNTY 115KV'	5.5	-0.32638	WERE	'CITY OF BURLINGTON 69KV'	4.8	0.00844	-0.33482	1
WERE	'BROWN COUNTY 115KV'	5.5	-0.32638	WERE	'CITY OF ERIE 69KV'	1.998	0.00472	-0.3311	1
WERE	'BROWN COUNTY 115KV'	5.5	-0.32638	WERE	'CITY OF FREDONIA 69KV'	1.298	0.00377	-0.33015	1
WERE	'BROWN COUNTY 115KV'	5.5	-0.32638	WERE	'CITY OF GIRARD 69KV'	1.493	0.00585	-0.33223	1
WERE	'BROWN COUNTY 115KV'	5.5	-0.32638	WERE	'CITY OF IOLA 69KV'	13.978	0.00547	-0.33185	1
WERE	'BROWN COUNTY 115KV'	5.5	-0.32638	WERE	'CITY OF MULVANE 69KV'	3.694	0.00398	-0.33036	1
WERE	'BROWN COUNTY 115KV'	5.5	-0.32638	WERE	'CITY OF WELLINGTON 69KV'	24	0.00392	-0.3303	1
WERE	'BROWN COUNTY 115KV'	5.5	-0.32638	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.00844	-0.33482	1
WERE	'BROWN COUNTY 115KV'	5.5	-0.32638	WERE	'COLBY 115KV'	6.639483	-0.01029	-0.31609	1
WERE	'BROWN COUNTY 115KV'	5.5	-0.32638	WERE	'EVANS ENERGY CENTER 138KV'	118.696	0.00599	-0.33237	1
WERE	'BROWN COUNTY 115KV'	5.5	-0.32638	WERE	'HUTCHINSON ENERGY CENTER 115KV'	40	0.01275	-0.33913	1
WERE	'BROWN COUNTY 115KV'	5.5	-0.32638	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03451	-0.36089	1
WERE	'BROWN COUNTY 115KV'	5.5	-0.32638	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03481	-0.36119	1
WERE	'BROWN COUNTY 115KV'	5.5	-0.32638	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.0283	-0.35468	1
WERE	'BROWN COUNTY 115KV'	5.5	-0.32638	WERE	'LAWRENCE ENERGY CENTER 230KV'	225.5185	0.02863	-0.35501	1
WERE	'BROWN COUNTY 115KV'	5.5	-0.32638	WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.04357	-0.36995	1
WERE	'BROWN COUNTY 115KV'	5.5	-0.32638	WERE	'WACO 138KV'	17.953	0.00468	-0.33106	1
WEPL	'CLIFTON 115KV'	70	-0.1882	WEPL	'GRAY COUNTY WIND FARM 115KV'	36	-0.0502	-0.18318	1
WEPL	'CLIFTON 115KV'	70	-0.1882	WEPL	'JUDSON LARGE 115KV'	42.10201	-0.0501	-0.18319	1
WEPL	'GREENLEAF 115KV'	14.2	-0.21434	WEPL	'GRAY COUNTY WIND FARM 115KV'	36	-0.0502	-0.20932	1
WEPL	'GREENLEAF 115KV'	14.2	-0.21434	WEPL	'JUDSON LARGE 115KV'	42.10201	-0.0501	-0.20933	1
WERE	'SOUTH SENECA 115KV'	16.7	-0.30778	WERE	'CHANUTE 69KV'	35.344	0.00472	-0.3125	1
WERE	'SOUTH SENECA 115KV'	16.7	-0.30778	WERE	'CITY OF AUGUSTA 69KV'	17.25201	-0.00279	-0.30499	1
WERE	'SOUTH SENECA 115KV'	16.7	-0.30778	WERE	'CITY OF BURLINGTON 69KV'	4.8	0.00844	-0.31623	1
WERE	'SOUTH SENECA 115KV'	16.7	-0.30778	WERE	'CITY OF ERIE 69KV'	1.998	0.00472	-0.3125	1
WERE	'SOUTH SENECA 115KV'	16.7	-0.30778	WERE	'CITY OF FREDONIA 69KV'	1.298	0.00377	-0.31155	1
WERE	'SOUTH SENECA 115KV'	16.7	-0.30778	WERE	'CITY OF GIRARD 69KV'	1.493	0.00585	-0.31363	1
WERE	'SOUTH SENECA 115KV'	16.7	-0.30778	WERE	'CITY OF IOLA 69KV'	13.978	0.00547	-0.31325	1
WERE	'SOUTH SENECA 115KV'	16.7	-0.30778	WERE	'CITY OF MULVANE 69KV'	3.694	0.00398	-0.31176	1
WERE	'SOUTH SENECA 115KV'	16.7	-0.30778	WERE	'CITY OF WELLINGTON 69KV'	24	0.00392	-0.3117	1
WERE	'SOUTH SENECA 115KV'	16.7	-0.30778	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.00844	-0.31622	1
WERE	'SOUTH SENECA 115KV'	16.7	-0.30778	WERE	'COLBY 115KV'	6.639483	-0.01029	-0.29749	1
WERE	'SOUTH SENECA 115KV'	16.7	-0.30778	WERE	'EVANS ENERGY CENTER 138KV'	118.696	0.00599	-0.31377	1
WERE	'SOUTH SENECA 115KV'	16.7	-0.30778	WERE	'HUTCHINSON ENERGY CENTER 115KV'	40	0.01275	-0.32053	1
WERE	'SOUTH SENECA 115KV'	16.7	-0.30778	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03451	-0.34229	1
WERE	'SOUTH SENECA 115KV'	16.7	-0.30778	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03481	-0.34259	1
WERE	'SOUTH SENECA 115KV'	16.7	-0.30778	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.0283	-0.33608	1
WERE	'SOUTH SENECA 115KV'	16.7	-0.30778	WERE	'LAWRENCE ENERGY CENTER 230KV'	225.5185	0.02863	-0.33641	1
WERE	'SOUTH SENECA 115KV'	16.7	-0.30778	WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.04357	-0.35135	1
WERE	'SOUTH SENECA 115KV'	16.7	-0.30778	WERE	'WACO 138KV'	17.953	0.00468	-0.31246	1
WEPL	'BELOIT 115KV'	16.6	-0.12815	WEPL	'GRAY COUNTY WIND FARM 115KV'	36	-0.0502	-0.12313	2
WEPL	'BELOIT 115KV'	16.6	-0.12815	WEPL	'JUDSON LARGE 115KV'	42.10201	-0.0501	-0.12314	2
WEPL	'SMITH CENTER 115KV'	6.15	-0.09275	WEPL	'GRAY COUNTY WIND FARM 115KV'	36	-0.0502	-0.08773	3
WEPL	'SMITH CENTER 115KV'	6.15	-0.09275	WEPL	'JUDSON LARGE 115KV'	42.10201	-0.0501	-0.08774	3
WERE	'ATWOOD 115KV'	4	-0.01002	WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.04357	-0.05359	5
WERE	'CITY OF AUGUSTA 69KV'	10.08799	-0.00279	WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.04357	-0.04636	5
WERE	'COLBY 115KV'	6.360517	-0.01029	WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.04357	-0.05386	5
WERE	'GETTY 69KV'	35	-0.00763	WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.04357	-0.0512	5
WERE	'GREAT BEND PLANT 69KV'	10	-0.0043	WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.04357	-0.04787	5
WERE	'KNOLL 3 115 115KV'	75	-0.00767	WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.04357	-0.05124	5
WERE	'ATWOOD 115KV'	4	-0.01002	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03451	-0.04453	6
WERE	'ATWOOD 115KV'	4	-0.01002	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03481	-0.04483	6
WERE	'CITY OF FREDONIA 69KV'	8.996	0.00377	WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.04357	-0.0398	6
WERE	'CITY OF MULVANE 69KV'	12.096	0.00398	WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.04357	-0.03959	6
WERE	'CITY OF NEODESHA 69KV'	4.5	0.00402	WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.04357	-0.03955	6
WERE	'CITY OF WELLINGTON 69KV'	19.5	0.00392	WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.04357	-0.03965	6
WERE	'CITY OF WINFIELD 69KV'	40	0.00302	WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.04357	-0.04055	6
WERE	'COLBY 115KV'	6.360517	-0.01029	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03451	-0.04448	6
WERE	'COLBY 115KV'	6.360517	-0.01029	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03481	-0.0451	6
WERE	'GETTY 69KV'	35	-0.00763	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03451	-0.04214	6
WERE	'GETTY 69KV'	35	-0.00763	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03481	-0.04244	6
WERE	'KNOLL 3 115 115KV'	75	-0.00767	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03451	-0.04218	6
WERE	'KNOLL 3 115 115KV'	75	-0.00767	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03481	-0.04248	6

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

WERE	LYONS 115KV	999	0.00428	WERE	TECUMSEH ENERGY CENTER 115KV	48	0.04357	-0.03929	6
WERE	OXFORD 138KV	3	0.00366	WERE	TECUMSEH ENERGY CENTER 115KV	48	0.04357	-0.03991	6
WERE	PAWNEE 115KV	999	-0.00053	WERE	TECUMSEH ENERGY CENTER 115KV	48	0.04357	-0.0441	6
WERE	RICE 115KV	999	-0.00053	WERE	TECUMSEH ENERGY CENTER 115KV	48	0.04357	-0.0441	6
WERE	ST JOHN 115KV	7.5	-0.00053	WERE	TECUMSEH ENERGY CENTER 115KV	48	0.04357	-0.0441	6
WERE	ATWOOD 115KV	4	-0.01002	WERE	LAWRENCE ENERGY CENTER 115KV	60	0.0283	-0.03832	7
WERE	ATWOOD 115KV	4	-0.01002	WERE	LAWRENCE ENERGY CENTER 230KV	225.5185	0.02863	-0.03865	7
WERE	CHANUTE 69KV	52.456	0.00472	WERE	TECUMSEH ENERGY CENTER 115KV	48	0.04357	-0.03885	7
WERE	CITY OF AUGUSTA 69KV	10.08799	-0.00279	WERE	JEFFREY ENERGY CENTER 230KV	470	0.03451	-0.0373	7
WERE	CITY OF AUGUSTA 69KV	10.08799	-0.00279	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03481	-0.0376	7
WERE	CITY OF BURLINGTON 69KV	7.7	0.00844	WERE	TECUMSEH ENERGY CENTER 115KV	48	0.04357	-0.03513	7
WERE	CITY OF ERIE 69KV	24.532	0.00472	WERE	TECUMSEH ENERGY CENTER 115KV	48	0.04357	-0.03885	7
WERE	CITY OF GIRARD 69KV	9.207	0.00585	WERE	TECUMSEH ENERGY CENTER 115KV	48	0.04357	-0.03772	7
WERE	CITY OF IOLA 69KV	23.65	0.00547	WERE	TECUMSEH ENERGY CENTER 115KV	48	0.04357	-0.0381	7
WERE	COLBY 115KV	6.360517	-0.01029	WERE	LAWRENCE ENERGY CENTER 115KV	60	0.0283	-0.03859	7
WERE	COLBY 115KV	6.360517	-0.01029	WERE	LAWRENCE ENERGY CENTER 230KV	225.5185	0.02863	-0.03892	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: CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1
 Limiting Facility: CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1
 Direction: To->From
 Line Outage: CONCORDIA (CONCORD6) 230/115/13.8KV TRANSFORMER CKT 1
 Flowgate: 57152571851CONCORD66314406WP
 Date Redispatch Needed: 2011/06 - 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	Aggregate Redispatch Amount (MW)
1090964	0.2	0.2	WERE	HOLTON 115KV	19.8	-0.67909	WERE	CHANUTE 69KV	35.344	0.00472	-0.68381	0
1090965	0.1	0.2	WERE	HOLTON 115KV	19.8	-0.67909	WERE	CITY OF AUGUSTA 69KV	17.25201	-0.00279	-0.6763	0
			WERE	HOLTON 115KV	19.8	-0.67909	WERE	CITY OF BURLINGTON 69KV	4.8	0.00844	-0.68753	0
			WERE	HOLTON 115KV	19.8	-0.67909	WERE	CITY OF ERIE 69KV	1.998	0.00472	-0.68381	0
			WERE	HOLTON 115KV	19.8	-0.67909	WERE	CITY OF FREDONIA 69KV	1.298	0.00377	-0.68286	0
			WERE	HOLTON 115KV	19.8	-0.67909	WERE	CITY OF GIRARD 69KV	1.493	0.00585	-0.68494	0
			WERE	HOLTON 115KV	19.8	-0.67909	WERE	CITY OF IOLA 69KV	13.978	0.00547	-0.68456	0
			WERE	HOLTON 115KV	19.8	-0.67909	WERE	CITY OF MULVANE 69KV	3.694	0.00398	-0.68307	0
			WERE	HOLTON 115KV	19.8	-0.67909	WERE	CITY OF WELLINGTON 69KV	24	0.00392	-0.68301	0
			WERE	HOLTON 115KV	19.8	-0.67909	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.97	0.00844	-0.68753	0
			WERE	HOLTON 115KV	19.8	-0.67909	WERE	COLBY 115KV	6.639483	-0.01029	-0.6688	0
			WERE	HOLTON 115KV	19.8	-0.67909	WERE	EVANS ENERGY CENTER 138KV	118.696	0.00599	-0.68508	0
			WERE	HOLTON 115KV	19.8	-0.67909	WERE	HUTCHINSON ENERGY CENTER 115KV	40	0.01275	-0.69184	0
			WERE	HOLTON 115KV	19.8	-0.67909	WERE	JEFFREY ENERGY CENTER 230KV	470	0.03451	-0.7136	0
			WERE	HOLTON 115KV	19.8	-0.67909	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03481	-0.7139	0
			WERE	HOLTON 115KV	19.8	-0.67909	WERE	LAWRENCE ENERGY CENTER 115KV	60	0.0283	-0.70739	0
			WERE	HOLTON 115KV	19.8	-0.67909	WERE	LAWRENCE ENERGY CENTER 230KV	225.5185	0.02863	-0.70772	0
			WERE	HOLTON 115KV	19.8	-0.67909	WERE	TECUMSEH ENERGY CENTER 115KV	48	0.04357	-0.72266	0
			WERE	HOLTON 115KV	19.8	-0.67909	WERE	WACO 138KV	17.953	0.00468	-0.68377	0
			WERE	BROWN COUNTY 115KV	5.5	-0.32638	WERE	CHANUTE 69KV	35.344	0.00472	-0.3311	1
			WERE	BROWN COUNTY 115KV	5.5	-0.32638	WERE	CITY OF AUGUSTA 69KV	17.25201	-0.00279	-0.32359	1
			WERE	BROWN COUNTY 115KV	5.5	-0.32638	WERE	CITY OF BURLINGTON 69KV	4.8	0.00844	-0.33462	1
			WERE	BROWN COUNTY 115KV	5.5	-0.32638	WERE	CITY OF ERIE 69KV	1.998	0.00472	-0.3311	1
			WERE	BROWN COUNTY 115KV	5.5	-0.32638	WERE	CITY OF FREDONIA 69KV	1.298	0.00377	-0.33016	1
			WERE	BROWN COUNTY 115KV	5.5	-0.32638	WERE	CITY OF GIRARD 69KV	1.493	0.00585	-0.33223	1
			WERE	BROWN COUNTY 115KV	5.5	-0.32638	WERE	CITY OF IOLA 69KV	13.978	0.00547	-0.33185	1
			WERE	BROWN COUNTY 115KV	5.5	-0.32638	WERE	CITY OF MULVANE 69KV	3.694	0.00398	-0.33036	1
			WERE	BROWN COUNTY 115KV	5.5	-0.32638	WERE	CITY OF WELLINGTON 69KV	24	0.00392	-0.3303	1
			WERE	BROWN COUNTY 115KV	5.5	-0.32638	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.97	0.00844	-0.33482	1
			WERE	BROWN COUNTY 115KV	5.5	-0.32638	WERE	COLBY 115KV	6.639483	-0.01029	-0.31609	1
			WERE	BROWN COUNTY 115KV	5.5	-0.32638	WERE	EVANS ENERGY CENTER 138KV	118.696	0.00599	-0.33237	1
			WERE	BROWN COUNTY 115KV	5.5	-0.32638	WERE	HUTCHINSON ENERGY CENTER 115KV	40	0.01275	-0.33913	1
			WERE	BROWN COUNTY 115KV	5.5	-0.32638	WERE	JEFFREY ENERGY CENTER 230KV	470	0.03451	-0.36089	1
			WERE	BROWN COUNTY 115KV	5.5	-0.32638	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03481	-0.36119	1
			WERE	BROWN COUNTY 115KV	5.5	-0.32638	WERE	LAWRENCE ENERGY CENTER 115KV	60	0.0283	-0.35468	1
			WERE	BROWN COUNTY 115KV	5.5	-0.32638	WERE	LAWRENCE ENERGY CENTER 230KV	225.5185	0.02863	-0.35501	1
			WERE	BROWN COUNTY 115KV	5.5	-0.32638	WERE	TECUMSEH ENERGY CENTER 115KV	48	0.04357	-0.36995	1
			WERE	BROWN COUNTY 115KV	5.5	-0.32638	WERE	WACO 138KV	17.953	0.00468	-0.33106	1
			WEPL	CLIFTON 115KV	70	-0.1882	WEPL	GRAY COUNTY WIND FARM 115KV	36	-0.0502	-0.18318	1
			WEPL	CLIFTON 115KV	70	-0.1882	WEPL	JUDSON LARGE 115KV	42.10201	-0.0501	-0.18319	1
			WEPL	GREENLEAF 115KV	14.2	-0.21434	WEPL	GRAY COUNTY WIND FARM 115KV	36	-0.0502	-0.20932	1
			WEPL	GREENLEAF 115KV	14.2	-0.21434	WEPL	JUDSON LARGE 115KV	42.10201	-0.0501	-0.20933	1
			WERE	SOUTH SENECA 115KV	16.7	-0.30778	WERE	CHANUTE 69KV	35.344	0.00472	-0.3125	1
			WERE	SOUTH SENECA 115KV	16.7	-0.30778	WERE	CITY OF AUGUSTA 69KV	17.25201	-0.00279	-0.30499	1
			WERE	SOUTH SENECA 115KV	16.7	-0.30778	WERE	CITY OF BURLINGTON 69KV	4.8	0.00844	-0.31622	1
			WERE	SOUTH SENECA 115KV	16.7	-0.30778	WERE	CITY OF ERIE 69KV	1.998	0.00472	-0.3125	1
			WERE	SOUTH SENECA 115KV	16.7	-0.30778	WERE	CITY OF FREDONIA 69KV	1.298	0.00377	-0.31155	1
			WERE	SOUTH SENECA 115KV	16.7	-0.30778	WERE	CITY OF GIRARD 69KV	1.493	0.00585	-0.31363	1
			WERE	SOUTH SENECA 115KV	16.7	-0.30778	WERE	CITY OF IOLA 69KV	13.978	0.00547	-0.31325	1
			WERE	SOUTH SENECA 115KV	16.7	-0.30778	WERE	CITY OF MULVANE 69KV	3.694	0.00398	-0.31176	1
			WERE	SOUTH SENECA 115KV	16.7	-0.30778	WERE	CITY OF WELLINGTON 69KV	24	0.00392	-0.3117	1
			WERE	SOUTH SENECA 115KV	16.7	-0.30778	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.97	0.00844	-0.31622	1
			WERE	SOUTH SENECA 115KV	16.7	-0.30778	WERE	COLBY 115KV	6.639483	-0.01029	-0.29749	1
			WERE	SOUTH SENECA 115KV	16.7	-0.30778	WERE	EVANS ENERGY CENTER 138KV	118.696	0.00599	-0.31377	1
			WERE	SOUTH SENECA 115KV	16.7	-0.30778	WERE	HUTCHINSON ENERGY CENTER 115KV	40	0.01275	-0.32053	1
			WERE	SOUTH SENECA 115KV	16.7	-0.30778	WERE	JEFFREY ENERGY CENTER 230KV	470	0.03451	-0.34229	1
			WERE	SOUTH SENECA 115KV	16.7	-0.30778	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03481	-0.34259	1
			WERE	SOUTH SENECA 115KV	16.7	-0.30778	WERE	LAWRENCE ENERGY CENTER 115KV	60	0.0283	-0.33608	1
			WERE	SOUTH SENECA 115KV	16.7	-0.30778	WERE	LAWRENCE ENERGY CENTER 230KV	225.5185	0.02863	-0.33641	1
			WERE	SOUTH SENECA 115KV	16.7	-0.30778	WERE	TECUMSEH ENERGY CENTER 115KV	48	0.04357	-0.35135	1
			WERE	SOUTH SENECA 115KV	16.7	-0.30778	WERE	WACO 138KV	17.953	0.00468	-0.31246	1
			WEPL	BELOIT 115KV	16.6	-0.12815	WEPL	GRAY COUNTY WIND FARM 115KV	36	-0.0502	-0.12313	2
			WEPL	BELOIT 115KV	16.6	-0.12815	WEPL	JUDSON LARGE 115KV	42.10201	-0.0501	-0.12314	2
			WEPL	SMITH CENTER 115KV	6.15	-0.09275	WEPL	GRAY COUNTY WIND FARM 115KV	36	-0.0502	-0.08773	3
			WEPL	SMITH CENTER 115KV	6.15	-0.09275	WEPL	JUDSON LARGE 115KV	42.10201	-0.0501	-0.08774	3
			WERE	ATWOOD 115KV	4	-0.01002	WERE	TECUMSEH ENERGY CENTER 115KV	48	0.04357	-0.05359	4
			WERE	COLBY 115KV	6.360517	-0.01029	WERE	TECUMSEH ENERGY CENTER 115KV	48	0.04357	-0.05386	4
			WERE	GETTY 69KV	35	-0.00763	WERE	TECUMSEH ENERGY CENTER 115KV	48	0.04357	-0.0512	4
			WERE	KNOLL 3 115 115KV	75	-0.00767	WERE	TECUMSEH ENERGY CENTER 115KV	48	0.04357	-0.05124	4
			WERE	ATWOOD 115KV	4	-0.01002	WERE	JEFFREY ENERGY CENTER 230KV	470	0.03451	-0.04453	5
			WERE	ATWOOD 115KV	4	-0.01002	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03481	-0.04483	5
			WERE	CITY OF AUGUSTA 69KV	10.08799	-0.00279	WERE	TECUMSEH ENERGY CENTER 115KV	48	0.04357	-0.04636	5
			WERE	CITY OF WINFIELD 69KV	40	0.00302	WERE	TECUMSEH ENERGY CENTER 115KV	48	0.04357	-0.04055	5
			WERE	COLBY 115KV	6.360517	-0.01029	WERE	JEFFREY ENERGY CENTER 230KV	470	0.03451	-0.0448	5
			WERE	COLBY 115KV	6.360517	-0.01029	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03481	-0.0451	5
			WERE	GETTY 69KV	35	-0.00763	WERE	JEFFREY ENERGY CENTER 230KV	470	0.03451	-0.04214	5
			WERE	GETTY 69KV	35	-0.00763	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03481	-0.04244	5
			WERE	GREAT BEND PLANT 69KV	10	-0.0043	WERE	TECUMSEH ENERGY CENTER 115KV	48	0.04357	-0.04787	5
			WERE	KNOLL 3 115 115KV	75	-0.00767	WERE	JEFFREY ENERGY CENTER 230KV	470	0.03451	-0.04218	5

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

WERE	KNOLL 3 115 115KV'	75	-0.00767	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.03481	-0.04248	5
WERE	PAWNEE 115KV'	999	-0.00053	WERE	TECUMSEH ENERGY CENTER 115KV'	48	0.04357	-0.0441	5
WERE	RICE 115KV'	999	-0.00053	WERE	TECUMSEH ENERGY CENTER 115KV'	48	0.04357	-0.0441	5
WERE	ST JOHN 115KV'	7.5	-0.00053	WERE	TECUMSEH ENERGY CENTER 115KV'	48	0.04357	-0.0441	5
WERE	ATWOOD 115KV'	4	-0.01002	WERE	LAWRENCE ENERGY CENTER 115KV'	60	0.0283	-0.03832	6
WERE	ATWOOD 115KV'	4	-0.01002	WERE	LAWRENCE ENERGY CENTER 230KV'	225.5185	0.02863	-0.03865	6
WERE	CHANUTE 69KV'	52.456	0.00472	WERE	TECUMSEH ENERGY CENTER 115KV'	48	0.04357	-0.03895	6
WERE	CITY OF AUGUSTA 69KV'	10.08799	-0.00279	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.03451	-0.0373	6
WERE	CITY OF AUGUSTA 69KV'	10.08799	-0.00279	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.03481	-0.0376	6
WERE	CITY OF BURLINGTON 69KV'	7.7	0.00844	WERE	TECUMSEH ENERGY CENTER 115KV'	48	0.04357	-0.03513	6
WERE	CITY OF ERIE 69KV'	24.532	0.00472	WERE	TECUMSEH ENERGY CENTER 115KV'	48	0.04357	-0.03895	6
WERE	CITY OF FREDONIA 69KV'	8.996	0.00377	WERE	TECUMSEH ENERGY CENTER 115KV'	48	0.04357	-0.0398	6
WERE	CITY OF GIRARD 69KV'	9.207	0.00585	WERE	TECUMSEH ENERGY CENTER 115KV'	48	0.04357	-0.03772	6
WERE	CITY OF IOLA 69KV'	23.65	0.00547	WERE	TECUMSEH ENERGY CENTER 115KV'	48	0.04357	-0.0381	6
WERE	CITY OF MULVANE 69KV'	12.096	0.00398	WERE	TECUMSEH ENERGY CENTER 115KV'	48	0.04357	-0.03959	6
WERE	CITY OF NEODESHA 69KV'	4.5	0.00402	WERE	TECUMSEH ENERGY CENTER 115KV'	48	0.04357	-0.03955	6
WERE	CITY OF WELLINGTON 69KV'	19.5	0.00392	WERE	TECUMSEH ENERGY CENTER 115KV'	48	0.04357	-0.03965	6
WERE	COLBY 115KV'	6.360517	-0.01029	WERE	LAWRENCE ENERGY CENTER 115KV'	60	0.0283	-0.03859	6
WERE	COLBY 115KV'	6.360517	-0.01029	WERE	LAWRENCE ENERGY CENTER 230KV'	225.5185	0.02863	-0.03892	6
WERE	EVANS ENERGY CENTER 138KV'	674.304	0.00599	WERE	TECUMSEH ENERGY CENTER 115KV'	48	0.04357	-0.03758	6
WERE	GETTY 69KV'	35	-0.00763	WERE	LAWRENCE ENERGY CENTER 115KV'	60	0.0283	-0.03593	6

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

Reservation	Relief Amount	Aggregate Relief Amount	Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
1086655	2.2	2.2	WERE	GILL ENERGY CENTER 69KV'	73	-0.05046	WERE	CITY OF ERIE 69KV'	23.374	0.00084	-0.0513	42
			WERE	GILL ENERGY CENTER 69KV'	73	-0.05046	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	0.00167	-0.05213	42
			WERE	GILL ENERGY CENTER 69KV'	73	-0.05046	WERE	GILL ENERGY CENTER 230KV'	470	0.00006	-0.05052	43
			WERE	GILL ENERGY CENTER 69KV'	73	-0.05046	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.00006	-0.05052	43
			WERE	GILL ENERGY CENTER 69KV'	73	-0.05046	WERE	LAWRENCE ENERGY CENTER 115KV'	85	0.00031	-0.05077	43
			WERE	GILL ENERGY CENTER 69KV'	73	-0.05046	WERE	LAWRENCE ENERGY CENTER 230KV'	229.0237	0.0003	-0.05076	43
			WERE	GILL ENERGY CENTER 69KV'	73	-0.05046	WERE	TECUMSEH ENERGY CENTER 115KV'	128	0.00035	-0.05081	43
			WERE	GILL ENERGY CENTER 69KV'	73	-0.05046	WERE	BPU - CITY OF MCPHERSON 115KV'	135	-0.00136	-0.0491	44
			WERE	GILL ENERGY CENTER 69KV'	73	-0.05046	WERE	HUTCHINSON ENERGY CENTER 115KV'	120	-0.00183	-0.04863	45
			WERE	GILL ENERGY CENTER 69KV'	73	-0.05046	WERE	KNOLL 3 115 115KV'	75	-0.00192	-0.04854	45
			WERE	GILL ENERGY CENTER 69KV'	73	-0.05046	WERE	EVANS ENERGY CENTER 138KV'	431.0884	-0.00301	-0.04745	46

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	Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
1090817	2.3	6.6	WERE	CITY OF MULVANE 69KV'	7.502	-0.08073	WERE	GILL ENERGY CENTER 69KV'	75	0.23279	-0.31352	21
1090964	3.3	6.6	WERE	CITY OF IOLA 69KV'	13.361	-0.00105	WERE	GILL ENERGY CENTER 69KV'	75	0.23279	-0.23384	28
1090965	0.9	6.6	WERE	CLAY CENTER JUNCTION 115KV'	15.161	0.00069	WERE	GILL ENERGY CENTER 69KV'	75	0.23279	-0.2321	28
			WERE	GETTY 69KV'	35	-0.00422	WERE	GILL ENERGY CENTER 69KV'	75	0.23279	-0.23701	28
			WERE	HOLTON 115KV'	19.8	-0.00022	WERE	GILL ENERGY CENTER 69KV'	75	0.23279	-0.23301	28
			WERE	JEFFREY ENERGY CENTER 230KV'	24	-0.00007	WERE	GILL ENERGY CENTER 69KV'	75	0.23279	-0.23286	28
			WERE	JEFFREY ENERGY CENTER 345KV'	42	-0.00007	WERE	GILL ENERGY CENTER 69KV'	75	0.23279	-0.23286	28
			WERE	LATHAM1234.0 345KV'	150	-0.00298	WERE	GILL ENERGY CENTER 69KV'	75	0.23279	-0.23577	28
			WERE	LYONS 115KV'	999	-0.00036	WERE	GILL ENERGY CENTER 69KV'	75	0.23279	-0.23315	28
			WERE	NEOSHO ENERGY CENTER 138KV'	47	-0.00104	WERE	GILL ENERGY CENTER 69KV'	75	0.23279	-0.23383	28
			WERE	SMOKYHIL 230 230KV'	72	0.00205	WERE	GILL ENERGY CENTER 69KV'	75	0.23279	-0.23074	28
			WERE	SOUTH SENECA 115KV'	16.7	0	WERE	GILL ENERGY CENTER 69KV'	75	0.23279	-0.23279	28
			WERE	BPU - CITY OF MCPHERSON 115KV'	21.13672	0.00286	WERE	GILL ENERGY CENTER 69KV'	75	0.23279	-0.22993	29
			WERE	GREAT BEND PLANT 69KV'	10	0.00699	WERE	GILL ENERGY CENTER 69KV'	75	0.23279	-0.2258	29
			WERE	HUTCHINSON ENERGY CENTER 115KV'	133	0.00389	WERE	GILL ENERGY CENTER 69KV'	75	0.23279	-0.2289	29
			WERE	HUTCHINSON ENERGY CENTER 69KV'	12	0.0039	WERE	GILL ENERGY CENTER 69KV'	75	0.23279	-0.22889	29
			WERE	KNOLL 3 115 115KV'	75	0.00351	WERE	GILL ENERGY CENTER 69KV'	75	0.23279	-0.22928	29
			WERE	PAWNEE 115KV'	999	0.01303	WERE	GILL ENERGY CENTER 69KV'	75	0.23279	-0.21976	30
			WERE	RICE 115KV'	999	0.01303	WERE	GILL ENERGY CENTER 69KV'	75	0.23279	-0.21976	30
			WERE	CITY OF WINFIELD 69KV'	40	0.02493	WERE	GILL ENERGY CENTER 69KV'	75	0.23279	-0.20786	32
			WERE	GETTY 69KV'	35	-0.00422	WERE	GILL ENERGY CENTER 138KV'	171	0.07582	-0.08004	82
			WERE	LATHAM1234.0 345KV'	150	-0.00298	WERE	GILL ENERGY CENTER 138KV'	171	0.07582	-0.0788	83
			WERE	NEOSHO ENERGY CENTER 138KV'	47	-0.00104	WERE	GILL ENERGY CENTER 138KV'	171	0.07582	-0.07686	85
			WERE	LYONS 115KV'	999	-0.00036	WERE	GILL ENERGY CENTER 138KV'	171	0.07582	-0.07618	86
			WERE	JEFFREY ENERGY CENTER 345KV'	42	-0.00007	WERE	GILL ENERGY CENTER 138KV'	171	0.07582	-0.07589	87
			WERE	SMOKYHIL 230 230KV'	72	0.00205	WERE	GILL ENERGY CENTER 138KV'	171	0.07582	-0.07377	89
			WERE	HUTCHINSON ENERGY CENTER 115KV'	133	0.00389	WERE	GILL ENERGY CENTER 138KV'	171	0.07582	-0.07193	91
			WERE	KNOLL 3 115 115KV'	75	0.00351	WERE	GILL ENERGY CENTER 138KV'	171	0.07582	-0.07231	91

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: HOOVER NORTH (HOOVER1X) 138/69/13.2KV TRANSFORMER 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
1090817	1.6	4.5
1090964	2.3	4.5

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

1090965	0.6	4.5										
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)			
WERE	CITY OF MULVANE 69KV	7.502	-0.0605	WERE	GILL ENERGY CENTER 69KV	75	0.15879	-0.21929	21			
WERE	CITY OF IOLA 69KV	13.361	-0.00102	WERE	GILL ENERGY CENTER 69KV	75	0.15879	-0.15981	28			
WERE	GETTY 69KV	35	-0.00446	WERE	GILL ENERGY CENTER 69KV	75	0.15879	-0.16325	28			
WERE	HOLTON 115KV	19.8	-0.00003	WERE	GILL ENERGY CENTER 69KV	75	0.15879	-0.15882	28			
WERE	JEFFREY ENERGY CENTER 230KV	24	0.00019	WERE	GILL ENERGY CENTER 69KV	75	0.15879	-0.15861	28			
WERE	JEFFREY ENERGY CENTER 345KV	42	0.00017	WERE	GILL ENERGY CENTER 69KV	75	0.15879	-0.15862	28			
WERE	LATHAM1234.0 345KV	150	-0.00277	WERE	GILL ENERGY CENTER 69KV	75	0.15879	-0.16156	28			
WERE	LYONS 115KV	999	-0.00033	WERE	GILL ENERGY CENTER 69KV	75	0.15879	-0.15912	28			
WERE	NEOSHO ENERGY CENTER 138KV	47	-0.001	WERE	GILL ENERGY CENTER 69KV	75	0.15879	-0.15979	28			
WERE	SOUTH SENECA 115KV	16.7	0.0001	WERE	GILL ENERGY CENTER 69KV	75	0.15879	-0.15869	28			
WERE	BPU - CITY OF MCPHERSON 115KV	21.13672	0.0024	WERE	GILL ENERGY CENTER 69KV	75	0.15879	-0.15639	29			
WERE	CLAY CENTER JUNCTION 115KV	15.161	0.00077	WERE	GILL ENERGY CENTER 69KV	75	0.15879	-0.15802	29			
WERE	GREAT BEND PLANT 69KV	10	0.00548	WERE	GILL ENERGY CENTER 69KV	75	0.15879	-0.15331	29			
WERE	HUTCHINSON ENERGY CENTER 115KV	133	0.00318	WERE	GILL ENERGY CENTER 69KV	75	0.15879	-0.15561	29			
WERE	HUTCHINSON ENERGY CENTER 69KV	12	0.00319	WERE	GILL ENERGY CENTER 69KV	75	0.15879	-0.1556	29			
WERE	KNOLL 3 115 115KV	75	0.00286	WERE	GILL ENERGY CENTER 69KV	75	0.15879	-0.15593	29			
WERE	SMOKYHIL 230 230KV	72	0.00179	WERE	GILL ENERGY CENTER 69KV	75	0.15879	-0.157	29			
WERE	PAWNEE 115KV	999	0.01005	WERE	GILL ENERGY CENTER 69KV	75	0.15879	-0.14874	30			
WERE	RICE 115KV	999	0.01005	WERE	GILL ENERGY CENTER 69KV	75	0.15879	-0.14874	30			
WERE	CITY OF WINFIELD 69KV	40	0.01599	WERE	GILL ENERGY CENTER 69KV	75	0.15879	-0.1428	32			
WERE	GETTY 69KV	35	-0.00446	WERE	GILL ENERGY CENTER 138KV	171	0.05754	-0.062	73			
WERE	LATHAM1234.0 345KV	150	-0.00277	WERE	GILL ENERGY CENTER 138KV	171	0.05754	-0.06031	75			
WERE	NEOSHO ENERGY CENTER 138KV	47	-0.001	WERE	GILL ENERGY CENTER 138KV	171	0.05754	-0.05854	77			
WERE	LYONS 115KV	999	-0.00033	WERE	GILL ENERGY CENTER 138KV	171	0.05754	-0.05787	78			
WERE	JEFFREY ENERGY CENTER 345KV	42	0.00017	WERE	GILL ENERGY CENTER 138KV	171	0.05754	-0.05737	79			
WERE	SMOKYHIL 230 230KV	72	0.00179	WERE	GILL ENERGY CENTER 138KV	171	0.05754	-0.05575	81			
WERE	HUTCHINSON ENERGY CENTER 115KV	133	0.00318	WERE	GILL ENERGY CENTER 138KV	171	0.05754	-0.05436	83			
WERE	KNOLL 3 115 115KV	75	0.00286	WERE	GILL ENERGY CENTER 138KV	171	0.05754	-0.05468	83			
WERE	CITY OF WINFIELD 69KV	40	0.01599	WERE	GILL ENERGY CENTER 138KV	171	0.05754	-0.04155	109			

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: 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: 5779557813157795579811107SP
 Date Redispatch Needed: 7/1/07 - 10/1/07
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090817	2.0	5.6
1090964	2.8	5.6
1090965	0.8	5.6

Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
WERE	CITY OF MULVANE 69KV	7.502	-0.08353	WERE	GILL ENERGY CENTER 69KV	75	0.19986	-0.28339	20
WERE	CITY OF IOLA 69KV	13.361	-0.00097	WERE	GILL ENERGY CENTER 69KV	75	0.19986	-0.20083	28
WERE	CLAY CENTER JUNCTION 115KV	15.161	0.00067	WERE	GILL ENERGY CENTER 69KV	75	0.19986	-0.19919	28
WERE	GETTY 69KV	35	-0.004	WERE	GILL ENERGY CENTER 69KV	75	0.19986	-0.20386	28
WERE	HOLTON 115KV	19.8	-0.00015	WERE	GILL ENERGY CENTER 69KV	75	0.19986	-0.20001	28
WERE	JEFFREY ENERGY CENTER 230KV	24	0.00001	WERE	GILL ENERGY CENTER 69KV	75	0.19986	-0.19985	28
WERE	JEFFREY ENERGY CENTER 345KV	42	0	WERE	GILL ENERGY CENTER 69KV	75	0.19986	-0.19986	28
WERE	LATHAM1234.0 345KV	150	-0.00271	WERE	GILL ENERGY CENTER 69KV	75	0.19986	-0.20257	28
WERE	LYONS 115KV	999	-0.00033	WERE	GILL ENERGY CENTER 69KV	75	0.19986	-0.20019	28
WERE	NEOSHO ENERGY CENTER 138KV	47	-0.00096	WERE	GILL ENERGY CENTER 69KV	75	0.19986	-0.20082	28
WERE	SOUTH SENECA 115KV	16.7	0.00003	WERE	GILL ENERGY CENTER 69KV	75	0.19986	-0.19983	28
WERE	BPU - CITY OF MCPHERSON 115KV	21.13672	0.00255	WERE	GILL ENERGY CENTER 69KV	75	0.19986	-0.19731	29
WERE	GREAT BEND PLANT 69KV	10	0.00614	WERE	GILL ENERGY CENTER 69KV	75	0.19986	-0.19372	29
WERE	HUTCHINSON ENERGY CENTER 115KV	133	0.00345	WERE	GILL ENERGY CENTER 69KV	75	0.19986	-0.19641	29
WERE	HUTCHINSON ENERGY CENTER 69KV	12	0.00346	WERE	GILL ENERGY CENTER 69KV	75	0.19986	-0.1964	29
WERE	KNOLL 3 115 115KV	75	0.00311	WERE	GILL ENERGY CENTER 69KV	75	0.19986	-0.19675	29
WERE	SMOKYHIL 230 230KV	72	0.00185	WERE	GILL ENERGY CENTER 69KV	75	0.19986	-0.19801	29
WERE	PAWNEE 115KV	999	0.01139	WERE	GILL ENERGY CENTER 69KV	75	0.19986	-0.18847	30
WERE	RICE 115KV	999	0.01139	WERE	GILL ENERGY CENTER 69KV	75	0.19986	-0.18847	30
WERE	CITY OF WINFIELD 69KV	40	0.02087	WERE	GILL ENERGY CENTER 69KV	75	0.19986	-0.17899	32
WERE	GETTY 69KV	35	-0.004	WERE	GILL ENERGY CENTER 138KV	171	0.06603	-0.07003	81
WERE	LATHAM1234.0 345KV	150	-0.00271	WERE	GILL ENERGY CENTER 138KV	171	0.06603	-0.06874	83
WERE	NEOSHO ENERGY CENTER 138KV	47	-0.00096	WERE	GILL ENERGY CENTER 138KV	171	0.06603	-0.06699	84
WERE	LYONS 115KV	999	-0.00033	WERE	GILL ENERGY CENTER 138KV	171	0.06603	-0.06636	85
WERE	JEFFREY ENERGY CENTER 345KV	42	0	WERE	GILL ENERGY CENTER 138KV	171	0.06603	-0.06603	86
WERE	SMOKYHIL 230 230KV	72	0.00185	WERE	GILL ENERGY CENTER 138KV	171	0.06603	-0.06418	88
WERE	HUTCHINSON ENERGY CENTER 115KV	133	0.00345	WERE	GILL ENERGY CENTER 138KV	171	0.06603	-0.06258	90
WERE	KNOLL 3 115 115KV	75	0.00311	WERE	GILL ENERGY CENTER 138KV	171	0.06603	-0.06292	90

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: GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1 #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: 7/1/07 - 10/1/07
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090817	1.6	4.4
1090964	2.2	4.4
1090965	0.6	4.4

Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
WERE	CITY OF MULVANE 69KV	7.502	-0.09763	WERE	GILL ENERGY CENTER 69KV	75	0.15442	-0.25205	17
WERE	CITY OF IOLA 69KV	13.361	-0.00091	WERE	GILL ENERGY CENTER 69KV	75	0.15442	-0.15533	28
WERE	GETTY 69KV	35	-0.00398	WERE	GILL ENERGY CENTER 69KV	75	0.15442	-0.15884	28
WERE	HOLTON 115KV	19.8	-0.00002	WERE	GILL ENERGY CENTER 69KV	75	0.15442	-0.15444	28
WERE	JEFFREY ENERGY CENTER 230KV	24	0.00016	WERE	GILL ENERGY CENTER 69KV	75	0.15442	-0.15426	28
WERE	JEFFREY ENERGY CENTER 345KV	42	0.00015	WERE	GILL ENERGY CENTER 69KV	75	0.15442	-0.15427	28
WERE	LATHAM1234.0 345KV	150	-0.00245	WERE	GILL ENERGY CENTER 69KV	75	0.15442	-0.15697	28
WERE	LYONS 115KV	999	-0.0003	WERE	GILL ENERGY CENTER 69KV	75	0.15442	-0.15472	28
WERE	NEOSHO ENERGY CENTER 138KV	47	-0.00089	WERE	GILL ENERGY CENTER 69KV	75	0.15442	-0.15531	28
WERE	SOUTH SENECA 115KV	16.7	0.0001	WERE	GILL ENERGY CENTER 69KV	75	0.15442	-0.15432	28
WERE	BPU - CITY OF MCPHERSON 115KV	21.13672	0.00221	WERE	GILL ENERGY CENTER 69KV	75	0.15442	-0.15221	29
WERE	CLAY CENTER JUNCTION 115KV	15.161	0.00077	WERE	GILL ENERGY CENTER 69KV	75	0.15442	-0.15372	29
WERE	GREAT BEND PLANT 69KV	10	0.00505	WERE	GILL ENERGY CENTER 69KV	75	0.15442	-0.14937	29

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

WERE	'HUTCHINSON ENERGY CENTER 115KV'	133	0.00293	WERE	'GILL ENERGY CENTER 69KV'	75	0.15442	-0.15149	29
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12	0.00293	WERE	'GILL ENERGY CENTER 69KV'	75	0.15442	-0.15149	29
WERE	'KNOLL 3 115 115KV'	75	0.00263	WERE	'GILL ENERGY CENTER 69KV'	75	0.15442	-0.15179	29
WERE	'SMOKYHILL 230 230KV'	72	0.00164	WERE	'GILL ENERGY CENTER 69KV'	75	0.15442	-0.15278	29
WERE	'PAWNEE 115KV'	999	0.00929	WERE	'GILL ENERGY CENTER 69KV'	75	0.15442	-0.14513	30
WERE	'RICE 115KV'	999	0.00929	WERE	'GILL ENERGY CENTER 69KV'	75	0.15442	-0.14513	30
WERE	'CITY OF WINFIELD 69KV'	40	0.01487	WERE	'GILL ENERGY CENTER 69KV'	75	0.15442	-0.13955	31
WERE	'CITY 69KV'	35	-0.0338	WERE	'GILL ENERGY CENTER 138KV'	171	0.0532	-0.05718	77
WERE	'LATHAM1234.0 345KV'	150	-0.00245	WERE	'GILL ENERGY CENTER 138KV'	171	0.0532	-0.05565	79
WERE	'NEOSHO ENERGY CENTER 138KV'	47	-0.00089	WERE	'GILL ENERGY CENTER 138KV'	171	0.0532	-0.05409	81
WERE	'LYONS 115KV'	999	-0.0003	WERE	'GILL ENERGY CENTER 138KV'	171	0.0532	-0.0535	82
WERE	'JEFFREY ENERGY CENTER 345KV'	42	0.00015	WERE	'GILL ENERGY CENTER 138KV'	171	0.0532	-0.05305	83
WERE	'SMOKYHILL 230 230KV'	72	0.00164	WERE	'GILL ENERGY CENTER 138KV'	171	0.0532	-0.05156	85
WERE	'HUTCHINSON ENERGY CENTER 115KV'	133	0.00293	WERE	'GILL ENERGY CENTER 138KV'	171	0.0532	-0.05027	87
WERE	'KNOLL 3 115 115KV'	75	0.00263	WERE	'GILL ENERGY CENTER 138KV'	171	0.0532	-0.05057	87
WERE	'CITY OF WINFIELD 69KV'	40	0.01487	WERE	'GILL ENERGY CENTER 138KV'	171	0.0532	-0.03833	114

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: HAYS PLANT - SOUTH HAYS 115KV CKT 1
 Limiting Facility: HAYS PLANT - SOUTH HAYS 115KV CKT 1
 Direction: To->From
 Line Outage: KNOLL 230/115KV TRANSFORMER CKT 1
 Flowgate: 5656256531565585656111208SP
 Date Redispatch Needed: Starting 2008 6/1 - 10/1 Until EOC
 Season Flowgate Identified: 2008 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090817	6.2	23.7
1090829	3.8	23.7
1090964	8.7	23.7
1090965	2.5	23.7
1091057	2.5	23.7

Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
WERE	'KNOLL 3 115 115KV'	75	-0.64896	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	0.03494	-0.6839	35
WERE	'KNOLL 3 115 115KV'	75	-0.64896	WERE	'HUTCHINSON ENERGY CENTER 115KV'	180	0.03708	-0.68604	35
WERE	'KNOLL 3 115 115KV'	75	-0.64896	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	0.03708	-0.68604	35
WERE	'KNOLL 3 115 115KV'	75	-0.64896	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.02013	-0.68909	35
WERE	'KNOLL 3 115 115KV'	75	-0.64896	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00657	-0.65553	36
WERE	'KNOLL 3 115 115KV'	75	-0.64896	WERE	'CITY OF ERIE 69KV'	23.374	0.02028	-0.65104	36
WERE	'KNOLL 3 115 115KV'	75	-0.64896	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	0.03038	-0.65204	36
WERE	'KNOLL 3 115 115KV'	75	-0.64896	WERE	'EVANS ENERGY CENTER 138KV'	510	0.00389	-0.65285	36
WERE	'KNOLL 3 115 115KV'	75	-0.64896	WERE	'GILL ENERGY CENTER 138KV'	155	0.00438	-0.65334	36
WERE	'KNOLL 3 115 115KV'	75	-0.64896	WERE	'GILL ENERGY CENTER 69KV'	45	0.00418	-0.65314	36
WERE	'KNOLL 3 115 115KV'	75	-0.64896	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00397	-0.65293	36
WERE	'KNOLL 3 115 115KV'	75	-0.64896	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.00392	-0.65288	36
WERE	'KNOLL 3 115 115KV'	75	-0.64896	WERE	'LAWRENCE ENERGY CENTER 230KV'	221.8893	0.00429	-0.65325	36
WERE	'KNOLL 3 115 115KV'	75	-0.64896	WERE	'TECUMSEH ENERGY CENTER 115KV'	145.8125	0.00402	-0.65298	36
WERE	'KNOLL 3 115 115KV'	75	-0.64896	WERE	'WACO 138KV'	17.967	0.00433	-0.65329	36

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: LINWOOD - MCWILLIE STREET 138KV CKT 1
 Limiting Facility: LINWOOD - MCWILLIE STREET 138KV CKT 1
 Direction: From->To
 Line Outage: HARTS ISLAND - SOUTH SHREVEPORT 138KV CKT 1
 Flowgate: 53422534281534145344612407SP
 Date Redispatch Needed: 6/1/07 - 10/1/07
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount
1235046	4.7	4.7

Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
AEPW	'ARSENAL HILL 69KV'	75	-0.36077	AEPW	'COGENTRIX 345KV'	200	-0.00426	-0.35651	13
AEPW	'ARSENAL HILL 69KV'	75	-0.36077	AEPW	'COMANCHE 138KV'	160	-0.00567	-0.3551	13
AEPW	'ARSENAL HILL 69KV'	75	-0.36077	AEPW	'COMANCHE 69KV'	63	-0.00568	-0.35509	13
AEPW	'ARSENAL HILL 69KV'	75	-0.36077	AEPW	'FITZHUGH 161KV'	30.99999	-0.00243	-0.35834	13
AEPW	'ARSENAL HILL 69KV'	75	-0.36077	AEPW	'FLINT CREEK 161KV'	420	-0.00354	-0.35723	13
AEPW	'ARSENAL HILL 69KV'	75	-0.36077	AEPW	'KNOXLEE 138KV'	280.2402	-0.00927	-0.3515	13
AEPW	'ARSENAL HILL 69KV'	75	-0.36077	AEPW	'NORTHEASTERN STATION 138KV'	405	-0.00394	-0.35683	13
AEPW	'ARSENAL HILL 69KV'	75	-0.36077	AEPW	'NORTHEASTERN STATION 138KV'	95	-0.00394	-0.35683	13
AEPW	'ARSENAL HILL 69KV'	75	-0.36077	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00393	-0.35684	13
AEPW	'ARSENAL HILL 69KV'	75	-0.36077	AEPW	'OEC 345KV'	269	-0.00413	-0.35664	13
AEPW	'ARSENAL HILL 69KV'	75	-0.36077	AEPW	'RIVERSIDE STATION 138KV'	646	-0.00427	-0.3565	13
AEPW	'ARSENAL HILL 69KV'	75	-0.36077	AEPW	'SOUTHWESTERN STATION 138KV'	335	-0.00561	-0.35516	13
AEPW	'ARSENAL HILL 69KV'	75	-0.36077	AEPW	'TULSA POWER STATION 138KV'	112	-0.00423	-0.35654	13
AEPW	'ARSENAL HILL 69KV'	75	-0.36077	AEPW	'TULSA POWER STATION 138KV'	147	-0.00423	-0.35654	13
AEPW	'ARSENAL HILL 69KV'	75	-0.36077	AEPW	'WEELETKA 138KV'	70	-0.00514	-0.35563	13
AEPW	'ARSENAL HILL 69KV'	75	-0.36077	AEPW	'EASTMAN 138KV'	155	-0.01316	-0.34761	14
AEPW	'ARSENAL HILL 69KV'	75	-0.36077	AEPW	'LEBROCK 345KV'	515	-0.01836	-0.34241	14
AEPW	'ARSENAL HILL 69KV'	75	-0.36077	AEPW	'PIRKEY GENERATION 138KV'	475	-0.02464	-0.33613	14
AEPW	'ARSENAL HILL 69KV'	75	-0.36077	AEPW	'WELSH 345KV'	990	-0.01279	-0.34798	14
AEPW	'ARSENAL HILL 69KV'	75	-0.36077	AEPW	'WILKES 138KV'	346.8935	-0.0287	-0.33207	14
AEPW	'ARSENAL HILL 69KV'	75	-0.36077	AEPW	'WILKES 345KV'	311	-0.01682	-0.34415	14
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'COGENTRIX 345KV'	200	-0.00426	-0.2077	23
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'COMANCHE 138KV'	160	-0.00567	-0.20629	23
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'COMANCHE 69KV'	63	-0.00568	-0.20628	23
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'FITZHUGH 161KV'	30.99999	-0.00243	-0.20953	23
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'FLINT CREEK 161KV'	420	-0.00354	-0.20842	23
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'KNOXLEE 138KV'	280.2402	-0.00927	-0.20269	23
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'NORTHEASTERN STATION 138KV'	405	-0.00394	-0.20802	23
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'NORTHEASTERN STATION 138KV'	95	-0.00394	-0.20802	23
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00393	-0.20803	23
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'OEC 345KV'	269	-0.00413	-0.20783	23
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'RIVERSIDE STATION 138KV'	646	-0.00427	-0.20769	23
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'SOUTHWESTERN STATION 138KV'	335	-0.00561	-0.20635	23
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'TULSA POWER STATION 138KV'	112	-0.00423	-0.20773	23
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'TULSA POWER STATION 138KV'	147	-0.00423	-0.20773	23
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'WEELETKA 138KV'	70	-0.00514	-0.20682	23
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'EASTMAN 138KV'	155	-0.01316	-0.1938	24
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'LEBROCK 345KV'	515	-0.01836	-0.1936	24
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'WELSH 345KV'	990	-0.01279	-0.19917	24
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'WILKES 345KV'	311	-0.01682	-0.19534	24
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'PIRKEY GENERATION 138KV'	475	-0.02464	-0.18732	25
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'WILKES 138KV'	346.8935	-0.0287	-0.18326	26
AEPW	'ARSENAL HILL 69KV'	75	-0.36077	AEPW	'LIEBERMAN 138KV'	91	-0.21196	-0.14881	32

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

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: 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	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
1090487	42.2	42.2								
SPS	MADOX 115KV		75	-0.12508	SPS	MUSTG5 118.0 230KV	360	0.24436	-0.36944	114
SPS	CUNNINGHAM 115KV		50.00977	-0.1221	SPS	MUSTG5 118.0 230KV	360	0.24436	-0.36646	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: 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: 51966519691518915189011407AP
 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	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
1090487	24.7	24.7								
SPS	MUSTANG 115KV		150	-0.44259	SPS	MUSTG5 118.0 230KV	125	0.24436	-0.68695	36
SPS	MUSTANG 115KV		150	-0.44259	SPS	TOLK 230KV	1014.384	0.01795	-0.46054	54
SPS	MUSTANG 115KV		150	-0.44259	SPS	BLACKHAWK 115KV	220	0.00538	-0.44797	55
SPS	MUSTANG 115KV		150	-0.44259	SPS	CZ 69KV	35	0.00489	-0.44748	55
SPS	MUSTANG 115KV		150	-0.44259	SPS	HARRINGTON 230KV	706	0.00545	-0.44804	55
SPS	MUSTANG 115KV		150	-0.44259	SPS	SAN JUAN 230KV	54	0.00307	-0.44566	55
SPS	MUSTANG 115KV		150	-0.44259	SPS	STEER WATER 115KV	36	0.00508	-0.44767	55
SPS	MUSTANG 115KV		150	-0.44259	SPS	WILWIND 230KV	72	0.00748	-0.45007	55
SPS	MUSTANG 115KV		150	-0.44259	SPS	JONES 230KV	104	-0.01198	-0.43061	57
SPS	MUSTANG 115KV		150	-0.44259	SPS	LP-BRND2 69KV	49.53857	-0.01318	-0.42941	58
SPS	MUSTANG 115KV		150	-0.44259	SPS	CUNNINGHAM 230KV	56	-0.02568	-0.41691	59
SPS	CUNNINGHAM 115KV		71	-0.1221	SPS	MUSTG5 118.0 230KV	125	0.24436	-0.36646	67
SPS	CUNNINGHAM 115KV		110	-0.1221	SPS	MUSTG5 118.0 230KV	125	0.24436	-0.36646	67
SPS	MADOX 115KV		193	-0.12508	SPS	MUSTG5 118.0 230KV	125	0.24436	-0.36944	67
SPS	CUNNINGHAM 230KV		250	-0.02568	SPS	MUSTG5 118.0 230KV	125	0.24436	-0.27004	92
SPS	JONES 230KV		382	-0.01198	SPS	MUSTG5 118.0 230KV	125	0.24436	-0.25634	96
SPS	LP-BRND2 69KV		182.4614	-0.01318	SPS	MUSTG5 118.0 230KV	125	0.24436	-0.25754	96
SPS	PLANTX 115KV		253	0.00765	SPS	MUSTG5 118.0 230KV	125	0.24436	-0.23671	104
SPS	PLANTX 230KV		189	0.01616	SPS	MUSTG5 118.0 230KV	125	0.24436	-0.2262	108
SPS	TOLK 230KV		65.61575	0.01795	SPS	MUSTG5 118.0 230KV	125	0.24436	-0.22641	109
SPS	MADOX 115KV		193	-0.12508	SPS	TOLK 230KV	1014.384	0.01795	-0.14303	173
SPS	CUNNINGHAM 115KV		71	-0.1221	SPS	TOLK 230KV	1014.384	0.01795	-0.14005	177
SPS	CUNNINGHAM 115KV		110	-0.1221	SPS	TOLK 230KV	1014.384	0.01795	-0.14005	177
SPS	MADOX 115KV		193	-0.12508	SPS	WILWIND 230KV	72	0.00748	-0.13256	187
SPS	MADOX 115KV		193	-0.12508	SPS	HARRINGTON 230KV	706	0.00545	-0.13053	189
SPS	MADOX 115KV		193	-0.12508	SPS	BLACKHAWK 115KV	220	0.00538	-0.13046	190
SPS	CUNNINGHAM 115KV		71	-0.1221	SPS	WILWIND 230KV	72	0.00748	-0.12958	191
SPS	CUNNINGHAM 115KV		110	-0.1221	SPS	WILWIND 230KV	72	0.00748	-0.12958	191
SPS	CUNNINGHAM 115KV		71	-0.1221	SPS	BLACKHAWK 115KV	220	0.00538	-0.12748	194
SPS	CUNNINGHAM 115KV		110	-0.1221	SPS	BLACKHAWK 115KV	220	0.00538	-0.12748	194
SPS	CUNNINGHAM 115KV		71	-0.1221	SPS	HARRINGTON 230KV	706	0.00545	-0.12755	194
SPS	CUNNINGHAM 115KV		110	-0.1221	SPS	HARRINGTON 230KV	706	0.00545	-0.12755	194
SPS	MADOX 115KV		193	-0.12508	SPS	JONES 230KV	104	-0.01198	-0.1131	219
SPS	CUNNINGHAM 115KV		110	-0.1221	SPS	JONES 230KV	104	-0.01198	-0.11012	225
SPS	CUNNINGHAM 230KV		250	-0.02568	SPS	TOLK 230KV	1014.384	0.01795	-0.04363	567

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: YOAKUM COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1
 Flowgate: 51966519691518915189014107G
 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	Aggregate Redispatch Amount (MW)
1090487	2.2	2.2								
SPS	CUNNINGHAM 115KV		71	-0.1221	SPS	MUSTG5 118.0 230KV	210	0.24436	-0.36646	6
SPS	MADOX 115KV		75	-0.12508	SPS	MUSTG5 118.0 230KV	210	0.24436	-0.36944	6
SPS	CARLSBAD 69KV		18	-0.03923	SPS	MUSTG5 118.0 230KV	210	0.24436	-0.28359	8
SPS	CZ 69KV		4	0.00489	SPS	MUSTG5 118.0 230KV	210	0.24436	-0.23947	9
SPS	HARRINGTON 230KV		360	0.00544	SPS	MUSTG5 118.0 230KV	210	0.24436	-0.23892	9
SPS	HUBRCO2 69KV		6	0.00538	SPS	MUSTG5 118.0 230KV	210	0.24436	-0.23898	9
SPS	LP-BRND2 69KV		152	-0.01318	SPS	MUSTG5 118.0 230KV	210	0.24436	-0.25754	9
SPS	MOORE COUNTY 115KV		48	0.00667	SPS	MUSTG5 118.0 230KV	210	0.24436	-0.23869	9
SPS	NICHOLS 115KV		107	0.00525	SPS	MUSTG5 118.0 230KV	210	0.24436	-0.23911	9
SPS	NICHOLS 230KV		113.3726	0.00538	SPS	MUSTG5 118.0 230KV	210	0.24436	-0.23898	9
SPS	PLANTX 115KV		48	0.00765	SPS	MUSTG5 118.0 230KV	210	0.24436	-0.23671	9
SPS	RIVERVIEW 69KV		23	0.00538	SPS	MUSTG5 118.0 230KV	210	0.24436	-0.23898	9
SPS	SIDRCH 69KV		6	0.00538	SPS	MUSTG5 118.0 230KV	210	0.24436	-0.23898	9
SPS	TOLK 230KV		65.29117	0.01795	SPS	MUSTG5 118.0 230KV	210	0.24436	-0.22641	10
SPS	TUCUMCARI 115KV		15	0.01266	SPS	MUSTG5 118.0 230KV	210	0.24436	-0.23176	10
SPS	MADOX 115KV		75	-0.12508	SPS	TOLK 230KV	1014.709	0.01795	-0.14303	15
SPS	CUNNINGHAM 115KV		71	-0.1221	SPS	CAPROCK 115KV	79.99996	0.0126	-0.1347	16
SPS	CUNNINGHAM 115KV		71	-0.1221	SPS	PLANTX 230KV	189	0.01615	-0.13825	16
SPS	CUNNINGHAM 115KV		71	-0.1221	SPS	TOLK 230KV	1014.709	0.01795	-0.14005	16
SPS	MADOX 115KV		75	-0.12508	SPS	CAPROCK 115KV	79.99996	0.0126	-0.13768	16
SPS	MADOX 115KV		75	-0.12508	SPS	PLANTX 230KV	189	0.01615	-0.14123	16
SPS	CUNNINGHAM 115KV		71	-0.1221	SPS	HARRINGTON 230KV	706	0.00544	-0.12754	17
SPS	CUNNINGHAM 115KV		71	-0.1221	SPS	NICHOLS 230KV	130.6274	0.00538	-0.12748	17

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

SPS	'CUNNINGHAM 115KV'	71	-0.1221	SPS	'PLANTX 115KV'	205	0.00765	-0.12975	17
SPS	'CUNNINGHAM 115KV'	71	-0.1221	SPS	'WILWIND 230KV'	159.9999	0.00748	-0.12958	17
SPS	'MADOX 115KV'	75	-0.12508	SPS	'HARRINGTON 230KV'	706	0.00544	-0.13052	17
SPS	'MADOX 115KV'	75	-0.12508	SPS	'NICHOLS 230KV'	130.6274	0.00538	-0.13046	17
SPS	'MADOX 115KV'	75	-0.12508	SPS	'PLANTX 115KV'	205	0.00765	-0.13273	17
SPS	'MADOX 115KV'	75	-0.12508	SPS	'SAN JUAN 230KV'	119.9999	0.00307	-0.12815	17
SPS	'MADOX 115KV'	75	-0.12508	SPS	'WILWIND 230KV'	159.9999	0.00748	-0.13256	17
SPS	'CUNNINGHAM 115KV'	71	-0.1221	SPS	'SAN JUAN 230KV'	119.9999	0.00307	-0.12517	18
SPS	'CUNNINGHAM 115KV'	71	-0.1221	SPS	'JONES 230KV'	486	-0.01198	-0.11012	20
SPS	'CUNNINGHAM 115KV'	71	-0.1221	SPS	'LP-BRND2 69KV'	80	-0.01318	-0.10892	20
SPS	'MADOX 115KV'	75	-0.12508	SPS	'JONES 230KV'	486	-0.01198	-0.1131	20
SPS	'MADOX 115KV'	75	-0.12508	SPS	'LP-BRND2 69KV'	80	-0.01318	-0.1119	20
SPS	'MADOX 115KV'	75	-0.12508	SPS	'CUNNINGHAM 230KV'	306	-0.02568	-0.0994	22
SPS	'CUNNINGHAM 115KV'	71	-0.1221	SPS	'CUNNINGHAM 230KV'	306	-0.02568	-0.09642	23
SPS	'CARLSBAD 69KV'	18	-0.03923	SPS	'TOLK 230KV'	1014.709	0.01795	-0.05718	39
SPS	'CARLSBAD 69KV'	18	-0.03923	SPS	'PLANTX 230KV'	189	0.01615	-0.05538	40
SPS	'CARLSBAD 69KV'	18	-0.03923	SPS	'CAPROCK 115KV'	79.99996	0.0126	-0.05183	43
SPS	'CARLSBAD 69KV'	18	-0.03923	SPS	'PLANTX 115KV'	205	0.00765	-0.04688	47
SPS	'CARLSBAD 69KV'	18	-0.03923	SPS	'WILWIND 230KV'	159.9999	0.00748	-0.04671	47
SPS	'CARLSBAD 69KV'	18	-0.03923	SPS	'HARRINGTON 230KV'	706	0.00544	-0.04467	49
SPS	'CARLSBAD 69KV'	18	-0.03923	SPS	'NICHOLS 230KV'	130.6274	0.00538	-0.04461	50
SPS	'CARLSBAD 69KV'	18	-0.03923	SPS	'SAN JUAN 230KV'	119.9999	0.00307	-0.0423	52
SPS	'LP-BRND2 69KV'	152	-0.01318	SPS	'TOLK 230KV'	1014.709	0.01795	-0.03113	71

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: 5196651969152205518911107FA
 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	Aggregate Redispatch Amount (MW)
1090487	42.2	42.2	SPS	'CUNNINGHAM 115KV'	110	-0.21032	SPS	'MUSTG5 118.0 230KV'	210	0.25702	-0.46734	90
			SPS	'CUNNINGHAM 115KV'	110	-0.21032	SPS	'MUSTG5 118.0 230KV'	210	0.25702	-0.46734	90
			SPS	'MADOX 115KV'	102.3579	-0.21294	SPS	'MUSTG5 118.0 230KV'	210	0.25702	-0.46996	90
			SPS	'CUNNINGHAM 230KV'	306	-0.16698	SPS	'MUSTG5 118.0 230KV'	210	0.25702	-0.424	99
			SPS	'NICHOLS 115KV'	213	0.00271	SPS	'MUSTG5 118.0 230KV'	210	0.25702	-0.25431	166
			SPS	'NICHOLS 230KV'	244	0.0028	SPS	'MUSTG5 118.0 230KV'	210	0.25702	-0.25422	166
			SPS	'PLANTX 115KV'	253	0.0048	SPS	'MUSTG5 118.0 230KV'	210	0.25702	-0.25222	167
			SPS	'TOLK 230KV'	60.2673	0.00822	SPS	'MUSTG5 118.0 230KV'	210	0.25702	-0.2488	169
			SPS	'PLANTX 230KV'	189	0.0095	SPS	'MUSTG5 118.0 230KV'	210	0.25702	-0.24752	170
			SPS	'MADOX 115KV'	102.3579	-0.21294	SPS	'TOLK 230KV'	1019.733	0.00822	-0.22116	191
			SPS	'CUNNINGHAM 115KV'	71	-0.21032	SPS	'TOLK 230KV'	1019.733	0.00822	-0.21854	193
			SPS	'CUNNINGHAM 115KV'	110	-0.21032	SPS	'TOLK 230KV'	1019.733	0.00822	-0.21854	193
			SPS	'MADOX 115KV'	102.3579	-0.21294	SPS	'BLACKHAWK 115KV'	220	0.0028	-0.21574	195
			SPS	'MADOX 115KV'	102.3579	-0.21294	SPS	'HARRINGTON 230KV'	1066	0.00284	-0.21578	195
			SPS	'MADOX 115KV'	102.3579	-0.21294	SPS	'WILWIND 230KV'	160	0.00387	-0.21681	195
			SPS	'MADOX 115KV'	102.3579	-0.21294	SPS	'STEER WATER 115KV'	79.94999	0.00262	-0.21556	196
			SPS	'CUNNINGHAM 115KV'	71	-0.21032	SPS	'WILWIND 230KV'	160	0.00387	-0.21419	197
			SPS	'CUNNINGHAM 115KV'	110	-0.21032	SPS	'WILWIND 230KV'	160	0.00387	-0.21419	197
			SPS	'CUNNINGHAM 115KV'	71	-0.21032	SPS	'BLACKHAWK 115KV'	220	0.0028	-0.21312	198
			SPS	'CUNNINGHAM 115KV'	110	-0.21032	SPS	'BLACKHAWK 115KV'	220	0.0028	-0.21312	198
			SPS	'CUNNINGHAM 115KV'	71	-0.21032	SPS	'HARRINGTON 230KV'	1066	0.00284	-0.21316	198
			SPS	'CUNNINGHAM 115KV'	110	-0.21032	SPS	'HARRINGTON 230KV'	1066	0.00284	-0.21316	198
			SPS	'CUNNINGHAM 115KV'	71	-0.21032	SPS	'STEER WATER 115KV'	79.94999	0.00262	-0.21294	198
			SPS	'CUNNINGHAM 115KV'	110	-0.21032	SPS	'STEER WATER 115KV'	79.94999	0.00262	-0.21294	198
			SPS	'MADOX 115KV'	102.3579	-0.21294	SPS	'CAPROCK 115KV'	79.94999	-0.00487	-0.20807	203
			SPS	'MADOX 115KV'	102.3579	-0.21294	SPS	'JONES 230KV'	486	-0.00528	-0.20766	203
			SPS	'CUNNINGHAM 115KV'	71	-0.21032	SPS	'CAPROCK 115KV'	79.94999	-0.00487	-0.20545	205
			SPS	'CUNNINGHAM 115KV'	110	-0.21032	SPS	'CAPROCK 115KV'	79.94999	-0.00487	-0.20545	205
			SPS	'CUNNINGHAM 115KV'	71	-0.21032	SPS	'JONES 230KV'	486	-0.00528	-0.20504	206
			SPS	'CUNNINGHAM 115KV'	110	-0.21032	SPS	'JONES 230KV'	486	-0.00528	-0.20504	206
			SPS	'CUNNINGHAM 230KV'	306	-0.16698	SPS	'TOLK 230KV'	1019.733	0.00822	-0.1752	241
			SPS	'MADOX 115KV'	102.3579	-0.21294	SPS	'SAN JUAN 230KV'	120	-0.03776	-0.17518	241
			SPS	'CUNNINGHAM 115KV'	110	-0.21032	SPS	'SAN JUAN 230KV'	120	-0.03776	-0.17256	244
			SPS	'CUNNINGHAM 230KV'	306	-0.16698	SPS	'WILWIND 230KV'	160	0.00387	-0.17085	247
			SPS	'CUNNINGHAM 230KV'	306	-0.16698	SPS	'HARRINGTON 230KV'	1066	0.00284	-0.16982	248
			SPS	'CUNNINGHAM 230KV'	306	-0.16698	SPS	'JONES 230KV'	486	-0.00528	-0.1617	261
			SPS	'CUNNINGHAM 230KV'	306	-0.16698	SPS	'SAN JUAN 230KV'	120	-0.03776	-0.12922	326

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: 5196651969152205518911107SH
 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	Aggregate Redispatch Amount (MW)
1090487	25.3	25.3	SPS	'CUNNINGHAM 115KV'	71	-0.21033	SPS	'MUSTG5 118.0 230KV'	210	0.257	-0.46733	54
			SPS	'CUNNINGHAM 115KV'	110	-0.21033	SPS	'MUSTG5 118.0 230KV'	210	0.257	-0.46733	54
			SPS	'MADOX 115KV'	75	-0.21295	SPS	'MUSTG5 118.0 230KV'	210	0.257	-0.46995	54
			SPS	'CUNNINGHAM 230KV'	110	-0.16699	SPS	'MUSTG5 118.0 230KV'	210	0.257	-0.42399	60
			SPS	'LP-BRND2 69KV'	152	-0.00604	SPS	'MUSTG5 118.0 230KV'	210	0.257	-0.26304	96
			SPS	'MOORE COUNTY 115KV'	48	0.00305	SPS	'MUSTG5 118.0 230KV'	210	0.257	-0.25395	100
			SPS	'NICHOLS 115KV'	131	0.0028	SPS	'MUSTG5 118.0 230KV'	210	0.257	-0.2542	100
			SPS	'NICHOLS 230KV'	244	0.00289	SPS	'MUSTG5 118.0 230KV'	210	0.257	-0.25411	100
			SPS	'PLANTX 115KV'	89.47412	0.00502	SPS	'MUSTG5 118.0 230KV'	210	0.257	-0.25198	100
			SPS	'TOLK 230KV'	52.01129	0.00826	SPS	'MUSTG5 118.0 230KV'	210	0.257	-0.24874	102
			SPS	'MADOX 115KV'	75	-0.21295	SPS	'PLANTX 230KV'	189	0.00956	-0.22251	114
			SPS	'MADOX 115KV'	75	-0.21295	SPS	'TOLK 230KV'	1027.989	0.00826	-0.22121	114
			SPS	'CUNNINGHAM 115KV'	71	-0.21033	SPS	'PLANTX 230KV'	189	0.00956	-0.21989	115
			SPS	'CUNNINGHAM 115KV'	110	-0.21033	SPS	'PLANTX 230KV'	189	0.00956	-0.21989	115
			SPS	'CUNNINGHAM 115KV'	71	-0.21033	SPS	'TOLK 230KV'	1027.989	0.00826	-0.21859	116
			SPS	'CUNNINGHAM 115KV'	110	-0.21033	SPS	'TOLK 230KV'	1027.989	0.00826	-0.21859	116
			SPS	'MADOX 115KV'	75	-0.21295	SPS	'PLANTX 115KV'	163.5259	0.00502	-0.21797	116
			SPS	'MADOX 115KV'	75	-0.21295	SPS	'BLACKHAWK 115KV'	220	0.00288	-0.21583	117

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

SPS	'MADOX 115KV'	75	-0.21295	SPS	'HARRINGTON 230KV'	1066	0.00292	-0.21587	117
SPS	'MADOX 115KV'	75	-0.21295	SPS	'NICHOLS 115KV'	82	0.0028	-0.21575	117
SPS	'MADOX 115KV'	75	-0.21295	SPS	'STEER WATER 115KV'	79.98182	0.00271	-0.21566	117
SPS	'MADOX 115KV'	75	-0.21295	SPS	'WILWIND 230KV'	159.9636	0.00395	-0.2169	117
SPS	'CUNNINGHAM 115KV'	71	-0.21033	SPS	'PLANTX 115KV'	163.5259	0.00502	-0.21535	118
SPS	'CUNNINGHAM 115KV'	110	-0.21033	SPS	'PLANTX 115KV'	163.5259	0.00502	-0.21535	118
SPS	'CUNNINGHAM 115KV'	71	-0.21033	SPS	'WILWIND 230KV'	159.9636	0.00395	-0.21428	118
SPS	'CUNNINGHAM 115KV'	110	-0.21033	SPS	'WILWIND 230KV'	159.9636	0.00395	-0.21428	118
SPS	'CUNNINGHAM 115KV'	71	-0.21033	SPS	'BLACKHAWK 115KV'	220	0.00288	-0.21321	119
SPS	'CUNNINGHAM 115KV'	110	-0.21033	SPS	'BLACKHAWK 115KV'	220	0.00288	-0.21321	119
SPS	'CUNNINGHAM 115KV'	71	-0.21033	SPS	'HARRINGTON 230KV'	1066	0.00292	-0.21325	119
SPS	'CUNNINGHAM 115KV'	110	-0.21033	SPS	'HARRINGTON 230KV'	1066	0.00292	-0.21325	119
SPS	'CUNNINGHAM 115KV'	71	-0.21033	SPS	'NICHOLS 115KV'	82	0.0028	-0.21313	119
SPS	'CUNNINGHAM 115KV'	110	-0.21033	SPS	'NICHOLS 115KV'	82	0.0028	-0.21313	119
SPS	'CUNNINGHAM 115KV'	71	-0.21033	SPS	'STEER WATER 115KV'	79.98182	0.00271	-0.21304	119
SPS	'CUNNINGHAM 115KV'	110	-0.21033	SPS	'STEER WATER 115KV'	79.98182	0.00271	-0.21304	119
SPS	'MADOX 115KV'	75	-0.21295	SPS	'CAPROCK 115KV'	79.98182	-0.00481	-0.20814	122
SPS	'MADOX 115KV'	75	-0.21295	SPS	'JONES 230KV'	486	-0.00544	-0.20751	122
SPS	'MADOX 115KV'	75	-0.21295	SPS	'LP-BRND 69KV'	80	-0.00604	-0.20691	122
SPS	'CUNNINGHAM 115KV'	71	-0.21033	SPS	'CAPROCK 115KV'	79.98182	-0.00481	-0.20552	123
SPS	'CUNNINGHAM 115KV'	110	-0.21033	SPS	'CAPROCK 115KV'	79.98182	-0.00481	-0.20552	123
SPS	'CUNNINGHAM 115KV'	71	-0.21033	SPS	'JONES 230KV'	486	-0.00544	-0.20489	124
SPS	'CUNNINGHAM 115KV'	110	-0.21033	SPS	'JONES 230KV'	486	-0.00544	-0.20489	124
SPS	'CUNNINGHAM 230KV'	110	-0.16699	SPS	'PLANTX 230KV'	189	0.00956	-0.17655	143
SPS	'CUNNINGHAM 230KV'	110	-0.16699	SPS	'TOLK 230KV'	1027.989	0.00826	-0.17523	144
SPS	'MADOX 115KV'	75	-0.21295	SPS	'SAN JUAN 230KV'	119.9727	-0.03772	-0.17523	144
SPS	'CUNNINGHAM 115KV'	71	-0.21033	SPS	'SAN JUAN 230KV'	119.9727	-0.03772	-0.17261	147
SPS	'CUNNINGHAM 115KV'	110	-0.21033	SPS	'SAN JUAN 230KV'	119.9727	-0.03772	-0.17261	147
SPS	'CUNNINGHAM 230KV'	110	-0.16699	SPS	'PLANTX 115KV'	163.5259	0.00502	-0.17201	147
SPS	'CUNNINGHAM 230KV'	110	-0.16699	SPS	'WILWIND 230KV'	159.9636	0.00395	-0.17094	148
SPS	'CUNNINGHAM 230KV'	110	-0.16699	SPS	'BLACKHAWK 115KV'	220	0.00288	-0.16987	149
SPS	'CUNNINGHAM 230KV'	110	-0.16699	SPS	'HARRINGTON 230KV'	1066	0.00292	-0.16991	149
SPS	'CUNNINGHAM 230KV'	110	-0.16699	SPS	'NICHOLS 115KV'	82	0.0028	-0.16979	149
SPS	'CUNNINGHAM 230KV'	110	-0.16699	SPS	'STEER WATER 115KV'	79.98182	0.00271	-0.1697	149
SPS	'CUNNINGHAM 230KV'	110	-0.16699	SPS	'CAPROCK 115KV'	79.98182	-0.00481	-0.16218	156
SPS	'CUNNINGHAM 230KV'	110	-0.16699	SPS	'JONES 230KV'	486	-0.00544	-0.16155	157
SPS	'CUNNINGHAM 230KV'	110	-0.16699	SPS	'SAN JUAN 230KV'	119.9727	-0.03772	-0.12927	196

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: 51966519691522055189111407AP
 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								Aggregate Redispatch Amount (MW)
1090487	41.8	41.8								
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)	
SPS	'MUSTANG 115KV'	150	-0.38901	SPS	'MUSTG5 118.0 230KV'	125	0.257	-0.64601	65	
SPS	'CUNNINGHAM 115KV'	71	-0.21033	SPS	'MUSTG5 118.0 230KV'	125	0.257	-0.46733	89	
SPS	'CUNNINGHAM 115KV'	110	-0.21033	SPS	'MUSTG5 118.0 230KV'	125	0.257	-0.46733	89	
SPS	'MADOX 115KV'	193	-0.21295	SPS	'MUSTG5 118.0 230KV'	125	0.257	-0.46995	89	
SPS	'CUNNINGHAM 230KV'	250	-0.16699	SPS	'MUSTG5 118.0 230KV'	125	0.257	-0.42399	99	
SPS	'MUSTANG 115KV'	150	-0.38901	SPS	'TOLK 230KV'	1014.384	0.00827	-0.39728	105	
SPS	'MUSTANG 115KV'	150	-0.38901	SPS	'WILWIND 230KV'	72	0.00396	-0.39297	106	
SPS	'MUSTANG 115KV'	150	-0.38901	SPS	'BLACKHAWK 115KV'	220	0.00288	-0.39189	107	
SPS	'MUSTANG 115KV'	150	-0.38901	SPS	'HARRINGTON 230KV'	706	0.00292	-0.39193	107	
SPS	'MUSTANG 115KV'	150	-0.38901	SPS	'STEER WATER 115KV'	36	0.00271	-0.39172	107	
SPS	'MUSTANG 115KV'	150	-0.38901	SPS	'JONES 230KV'	104	-0.00544	-0.38357	109	
SPS	'MUSTANG 115KV'	150	-0.38901	SPS	'LP-BRND 69KV'	49.53857	-0.00604	-0.38297	109	
SPS	'MUSTANG 115KV'	150	-0.38901	SPS	'SAN JUAN 230KV'	54	-0.03772	-0.35129	119	
SPS	'JONES 230KV'	382	-0.00544	SPS	'MUSTG5 118.0 230KV'	125	0.257	-0.26244	159	
SPS	'LP-BRND 2 69KV'	182.4614	-0.00604	SPS	'MUSTG5 118.0 230KV'	125	0.257	-0.26304	159	
SPS	'PLANTX 115KV'	253	0.00502	SPS	'MUSTG5 118.0 230KV'	125	0.257	-0.25198	166	
SPS	'TOLK 230KV'	65.61575	0.00827	SPS	'MUSTG5 118.0 230KV'	125	0.257	-0.24873	168	
SPS	'PLANTX 230KV'	189	0.00957	SPS	'MUSTG5 118.0 230KV'	125	0.257	-0.24743	169	
SPS	'MADOX 115KV'	193	-0.21295	SPS	'TOLK 230KV'	1014.384	0.00827	-0.22122	189	
SPS	'CUNNINGHAM 115KV'	71	-0.21033	SPS	'TOLK 230KV'	1014.384	0.00827	-0.2186	191	
SPS	'CUNNINGHAM 115KV'	110	-0.21033	SPS	'TOLK 230KV'	1014.384	0.00827	-0.2186	191	
SPS	'MADOX 115KV'	193	-0.21295	SPS	'WILWIND 230KV'	72	0.00396	-0.21691	193	
SPS	'MADOX 115KV'	193	-0.21295	SPS	'HARRINGTON 230KV'	706	0.00292	-0.21587	194	
SPS	'CUNNINGHAM 115KV'	71	-0.21033	SPS	'WILWIND 230KV'	72	0.00396	-0.21429	195	
SPS	'CUNNINGHAM 115KV'	110	-0.21033	SPS	'WILWIND 230KV'	72	0.00396	-0.21429	195	
SPS	'CUNNINGHAM 115KV'	71	-0.21033	SPS	'BLACKHAWK 115KV'	220	0.00288	-0.21321	196	
SPS	'CUNNINGHAM 115KV'	110	-0.21033	SPS	'BLACKHAWK 115KV'	220	0.00288	-0.21321	196	
SPS	'CUNNINGHAM 115KV'	71	-0.21033	SPS	'HARRINGTON 230KV'	706	0.00292	-0.21325	196	
SPS	'CUNNINGHAM 115KV'	110	-0.21033	SPS	'HARRINGTON 230KV'	706	0.00292	-0.21325	196	
SPS	'MADOX 115KV'	193	-0.21295	SPS	'JONES 230KV'	104	-0.00544	-0.20751	201	
SPS	'CUNNINGHAM 115KV'	71	-0.21033	SPS	'JONES 230KV'	104	-0.00544	-0.20489	204	
SPS	'CUNNINGHAM 115KV'	110	-0.21033	SPS	'JONES 230KV'	104	-0.00544	-0.20489	204	
SPS	'CUNNINGHAM 230KV'	250	-0.16699	SPS	'TOLK 230KV'	1014.384	0.00827	-0.17526	238	
SPS	'CUNNINGHAM 230KV'	250	-0.16699	SPS	'HARRINGTON 230KV'	706	0.00292	-0.16991	246	
SPS	'CUNNINGHAM 230KV'	250	-0.16699	SPS	'JONES 230KV'	104	-0.00544	-0.16155	259	

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: 51966519691522055189111407WP
 Date Redispatch Needed: 12/1/07 - 4/1/08
 Season Flowgate Identified: 2007 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount								Aggregate Redispatch Amount (MW)
1090487	15.2	15.2								
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)	
SPS	'MUSTANG 115KV'	29	-0.38898	SPS	'MUSTG5 118.0 230KV'	210	0.25703	-0.64601	24	
SPS	'MADOX 115KV'	88.39449	-0.21294	SPS	'MUSTG5 118.0 230KV'	210	0.25703	-0.46997	32	
SPS	'CUNNINGHAM 115KV'	71	-0.21032	SPS	'MUSTG5 118.0 230KV'	210	0.25703	-0.46735	33	
SPS	'CUNNINGHAM 115KV'	110	-0.21032	SPS	'MUSTG5 118.0 230KV'	210	0.25703	-0.46735	33	
SPS	'CUNNINGHAM 230KV'	110	-0.16698	SPS	'MUSTG5 118.0 230KV'	210	0.25703	-0.42401	36	
SPS	'MUSTANG 115KV'	29	-0.38898	SPS	'TOLK 230KV'	1019.563	0.00822	-0.3972	38	

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

SPS	'CARLSBAD 69KV'	18	-0.1354	SPS	'MUSTG5 118.0 230KV'	210	0.25703	-0.39243	39
SPS	'MUSTANG 115KV'	29	-0.38898	SPS	'BLACKHAWK 115KV'	220	0.0028	-0.39178	39
SPS	'MUSTANG 115KV'	29	-0.38898	SPS	'CZ 69KV'	35	0.00253	-0.39151	39
SPS	'MUSTANG 115KV'	29	-0.38898	SPS	'HARRINGTON 230KV'	1066	0.00284	-0.39182	39
SPS	'MUSTANG 115KV'	29	-0.38898	SPS	'SIDRCH 69KV'	14	0.0028	-0.39178	39
SPS	'MUSTANG 115KV'	29	-0.38898	SPS	'STEER WATER 115KV'	24	0.00262	-0.3916	39
SPS	'MUSTANG 115KV'	29	-0.38898	SPS	'WILWIND 230KV'	48	0.00387	-0.39285	39
SPS	'MUSTANG 115KV'	29	-0.38898	SPS	'CAPROCK 115KV'	24	-0.00486	-0.38412	40
SPS	'MUSTANG 115KV'	29	-0.38898	SPS	'JONES 230KV'	243	-0.00528	-0.3837	40
SPS	'MUSTANG 115KV'	29	-0.38898	SPS	'LP-BRND2 69KV'	60	-0.00588	-0.3831	40
SPS	'MUSTANG 115KV'	29	-0.38898	SPS	'SAN JUAN 230KV'	36	-0.03776	-0.35122	43
SPS	'JONES 230KV'	243	-0.00528	SPS	'MUSTG5 118.0 230KV'	210	0.25703	-0.26231	58
SPS	'LP-BRND2 69KV'	172	-0.00588	SPS	'MUSTG5 118.0 230KV'	210	0.25703	-0.26291	58
SPS	'MOORE COUNTY 115KV'	48	0.00296	SPS	'MUSTG5 118.0 230KV'	210	0.25703	-0.25407	60
SPS	'NICHOLS 115KV'	213	0.00271	SPS	'MUSTG5 118.0 230KV'	210	0.25703	-0.25432	60
SPS	'NICHOLS 230KV'	244	0.0028	SPS	'MUSTG5 118.0 230KV'	210	0.25703	-0.25423	60
SPS	'PLANTX 115KV'	253	0.0048	SPS	'MUSTG5 118.0 230KV'	210	0.25703	-0.25223	60
SPS	'RIVERVIEW 69KV'	23	0.0028	SPS	'MUSTG5 118.0 230KV'	210	0.25703	-0.25423	60
SPS	'PLANTX 230KV'	189	0.0095	SPS	'MUSTG5 118.0 230KV'	210	0.25703	-0.24753	61
SPS	'TOLK 230KV'	60.43671	0.00822	SPS	'MUSTG5 118.0 230KV'	210	0.25703	-0.24881	61
SPS	'MADOX 115KV'	88.39449	-0.21294	SPS	'TOLK 230KV'	1019.563	0.00822	-0.22116	69
SPS	'MUSTANG 115KV'	29	-0.38898	SPS	'CUNNINGHAM 230KV'	196	-0.16698	-0.222	69
SPS	'CUNNINGHAM 115KV'	71	-0.21032	SPS	'TOLK 230KV'	1019.563	0.00822	-0.21854	70
SPS	'CUNNINGHAM 115KV'	110	-0.21032	SPS	'TOLK 230KV'	1019.563	0.00822	-0.21854	70
SPS	'MADOX 115KV'	88.39449	-0.21294	SPS	'BLACKHAWK 115KV'	220	0.0028	-0.21574	70
SPS	'MADOX 115KV'	88.39449	-0.21294	SPS	'HARRINGTON 230KV'	1066	0.00284	-0.21578	70
SPS	'MADOX 115KV'	88.39449	-0.21294	SPS	'WILWIND 230KV'	48	0.00387	-0.21681	70
SPS	'CUNNINGHAM 115KV'	71	-0.21032	SPS	'BLACKHAWK 115KV'	220	0.0028	-0.21312	71
SPS	'CUNNINGHAM 115KV'	110	-0.21032	SPS	'BLACKHAWK 115KV'	220	0.0028	-0.21312	71
SPS	'CUNNINGHAM 115KV'	71	-0.21032	SPS	'CZ 69KV'	35	0.00253	-0.21285	71
SPS	'CUNNINGHAM 115KV'	110	-0.21032	SPS	'CZ 69KV'	35	0.00253	-0.21285	71
SPS	'CUNNINGHAM 115KV'	71	-0.21032	SPS	'HARRINGTON 230KV'	1066	0.00284	-0.21316	71
SPS	'CUNNINGHAM 115KV'	110	-0.21032	SPS	'HARRINGTON 230KV'	1066	0.00284	-0.21316	71
SPS	'CUNNINGHAM 115KV'	71	-0.21032	SPS	'STEER WATER 115KV'	24	0.00262	-0.21294	71
SPS	'CUNNINGHAM 115KV'	110	-0.21032	SPS	'STEER WATER 115KV'	24	0.00262	-0.21294	71
SPS	'CUNNINGHAM 115KV'	71	-0.21032	SPS	'WILWIND 230KV'	48	0.00387	-0.21419	71
SPS	'CUNNINGHAM 115KV'	110	-0.21032	SPS	'WILWIND 230KV'	48	0.00387	-0.21419	71
SPS	'MADOX 115KV'	88.39449	-0.21294	SPS	'CZ 69KV'	35	0.00253	-0.21547	71
SPS	'MADOX 115KV'	88.39449	-0.21294	SPS	'STEER WATER 115KV'	24	0.00262	-0.21566	71
SPS	'MADOX 115KV'	88.39449	-0.21294	SPS	'JONES 230KV'	243	-0.00528	-0.20766	73
SPS	'MADOX 115KV'	88.39449	-0.21294	SPS	'LP-BRND2 69KV'	60	-0.00588	-0.20706	73
SPS	'CUNNINGHAM 115KV'	71	-0.21032	SPS	'JONES 230KV'	243	-0.00528	-0.20504	74
SPS	'CUNNINGHAM 115KV'	110	-0.21032	SPS	'JONES 230KV'	243	-0.00528	-0.20504	74
SPS	'CUNNINGHAM 115KV'	71	-0.21032	SPS	'LP-BRND2 69KV'	60	-0.00588	-0.20444	74
SPS	'CUNNINGHAM 115KV'	110	-0.21032	SPS	'LP-BRND2 69KV'	60	-0.00588	-0.20444	74
SPS	'MUSTANG 115KV'	29	-0.38898	SPS	'MADOX 115KV'	104.6055	-0.21294	-0.17604	86
SPS	'CUNNINGHAM 230KV'	110	-0.16698	SPS	'TOLK 230KV'	1019.563	0.00822	-0.1752	87
SPS	'MADOX 115KV'	88.39449	-0.21294	SPS	'SAN JUAN 230KV'	36	-0.03776	-0.17518	87
SPS	'CUNNINGHAM 115KV'	71	-0.21032	SPS	'SAN JUAN 230KV'	36	-0.03776	-0.17256	88
SPS	'CUNNINGHAM 115KV'	110	-0.21032	SPS	'SAN JUAN 230KV'	36	-0.03776	-0.17256	88
SPS	'CUNNINGHAM 230KV'	110	-0.16698	SPS	'WILWIND 230KV'	48	0.00387	-0.17085	89
SPS	'CUNNINGHAM 230KV'	110	-0.16698	SPS	'BLACKHAWK 115KV'	220	0.0028	-0.16978	90
SPS	'CUNNINGHAM 230KV'	110	-0.16698	SPS	'CZ 69KV'	35	0.00253	-0.16951	90
SPS	'CUNNINGHAM 230KV'	110	-0.16698	SPS	'HARRINGTON 230KV'	1066	0.00284	-0.16982	90
SPS	'CUNNINGHAM 230KV'	110	-0.16698	SPS	'JONES 230KV'	243	-0.00528	-0.1617	94
SPS	'CUNNINGHAM 230KV'	110	-0.16698	SPS	'LP-BRND2 69KV'	60	-0.00588	-0.1611	94

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: GEN-519711
 Flowgate: 51966519691GEN5197111107AP
 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	Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
1090487	15.2	15.2										
			SPS	'MUSTANG 115KV'	114.3489	-0.39792	SPS	'MUSTG5 118.0 230KV'	135	0.21119	-0.60911	25
			SPS	'MUSTANG 115KV'	114.3489	-0.39792	SPS	'TOLK 230KV'	1020.232	0.01159	-0.40851	37
			SPS	'MUSTANG 115KV'	114.3489	-0.39792	SPS	'BLACKHAWK 115KV'	220	0.00359	-0.40151	38
			SPS	'MUSTANG 115KV'	114.3489	-0.39792	SPS	'CAPROCK 115KV'	79.98182	0.00665	-0.40457	38
			SPS	'MUSTANG 115KV'	114.3489	-0.39792	SPS	'CZ 69KV'	35	0.00326	-0.40118	38
			SPS	'MUSTANG 115KV'	114.3489	-0.39792	SPS	'HARRINGTON 230KV'	706	0.00363	-0.40155	38
			SPS	'MUSTANG 115KV'	114.3489	-0.39792	SPS	'SIDRCH 69KV'	14	0.00358	-0.4015	38
			SPS	'MUSTANG 115KV'	114.3489	-0.39792	SPS	'STEER WATER 115KV'	79.98182	0.00338	-0.4013	38
			SPS	'MUSTANG 115KV'	114.3489	-0.39792	SPS	'WILWIND 230KV'	159.9636	0.00497	-0.40289	38
			SPS	'MUSTANG 115KV'	114.3489	-0.39792	SPS	'JONES 230KV'	104	-0.0077	-0.39022	39
			SPS	'MUSTANG 115KV'	114.3489	-0.39792	SPS	'LP-BRND2 69KV'	60	-0.00853	-0.38939	39
			SPS	'MUSTANG 115KV'	114.3489	-0.39792	SPS	'SAN JUAN 230KV'	119.9727	-0.00356	-0.39436	39
			SPS	'MUSTANG 115KV'	114.3489	-0.39792	SPS	'CUNNINGHAM 230KV'	56	-0.03607	-0.36185	42
			SPS	'MADOX 115KV'	193	-0.11872	SPS	'MUSTG5 118.0 230KV'	125	0.21119	-0.32991	46
			SPS	'CUNNINGHAM 115KV'	71	-0.11614	SPS	'MUSTG5 118.0 230KV'	125	0.21119	-0.32733	47
			SPS	'CUNNINGHAM 115KV'	110	-0.11614	SPS	'MUSTG5 118.0 230KV'	125	0.21119	-0.32733	47
			SPS	'CUNNINGHAM 230KV'	250	-0.03607	SPS	'MUSTG5 118.0 230KV'	125	0.21119	-0.24726	62
			SPS	'LP-BRND2 69KV'	172	-0.00853	SPS	'MUSTG5 118.0 230KV'	125	0.21119	-0.21972	69
			SPS	'JONES 230KV'	382	-0.0077	SPS	'MUSTG5 118.0 230KV'	125	0.21119	-0.21869	70
			SPS	'MOORE COUNTY 115KV'	48	0.00378	SPS	'MUSTG5 118.0 230KV'	125	0.21119	-0.20741	73
			SPS	'PLANTX 115KV'	253	0.00555	SPS	'MUSTG5 118.0 230KV'	125	0.21119	-0.20564	74
			SPS	'PLANTX 230KV'	189	0.01083	SPS	'MUSTG5 118.0 230KV'	125	0.21119	-0.20036	76
			SPS	'TOLK 230KV'	59.76834	0.01159	SPS	'MUSTG5 118.0 230KV'	125	0.21119	-0.1996	76
			SPS	'MADOX 115KV'	193	-0.11872	SPS	'TOLK 230KV'	1020.232	0.01159	-0.19031	117
			SPS	'CUNNINGHAM 115KV'	71	-0.11614	SPS	'TOLK 230KV'	1020.232	0.01159	-0.12773	119
			SPS	'CUNNINGHAM 115KV'	110	-0.11614	SPS	'TOLK 230KV'	1020.232	0.01159	-0.12773	119
			SPS	'MADOX 115KV'	193	-0.11872	SPS	'CAPROCK 115KV'	79.98182	0.00665	-0.12537	122
			SPS	'MADOX 115KV'	193	-0.11872	SPS	'WILWIND 230KV'	159.9636	0.00497	-0.12369	123
			SPS	'CUNNINGHAM 115KV'	71	-0.11614	SPS	'CAPROCK 115KV'	79.98182	0.00665	-0.12279	124
			SPS	'CUNNINGHAM 115KV'	110	-0.11614	SPS	'CAPROCK 115KV'	79.98182	0.00665	-0.12279	124
			SPS	'MADOX 115KV'	193	-0.11872	SPS	'BLACKHAWK 115KV'	220	0.00359	-0.12231	125
			SPS	'MADOX 115KV'	193	-0.11872	SPS	'HARRINGTON 230KV'	706	0.00363	-0.12235	125
			SPS	'MADOX 115KV'	193	-0.11872	SPS	'STEER WATER 115KV'	79.98182	0.00338	-0.1221	125
			SPS	'CUNNINGHAM 115KV'	71	-0.11614	SPS	'WILWIND 230KV'	159.9636	0.00497	-0.12111	126
			SPS	'CUNNINGHAM 115KV'	110	-0.11614	SPS	'WILWIND 230KV'	159.9636	0.00497	-0.12111	126
			SPS	'CUNNINGHAM 115KV'	71	-0.11614	SPS	'BLACKHAWK 115KV'	220	0.00359	-0.11973	127
			SPS	'CUNNINGHAM 115KV'	110	-0.11614	SPS	'BLACKHAWK 115KV'	220	0.00359	-0.11973	127

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

SPS	'CUNNINGHAM 115KV'	110	-0.11614	SPS	'STEER WATER 115KV'	79.98182	0.00338	-0.11952	128
SPS	'MADOX 115KV'	193	-0.11872	SPS	'SAN JUAN 230KV'	119.9727	-0.00356	-0.11516	132
SPS	'CUNNINGHAM 115KV'	71	-0.11614	SPS	'SAN JUAN 230KV'	119.9727	-0.00356	-0.11258	135
SPS	'CUNNINGHAM 115KV'	110	-0.11614	SPS	'SAN JUAN 230KV'	119.9727	-0.00356	-0.11258	135
SPS	'MADOX 115KV'	193	-0.11872	SPS	'JONES 230KV'	104	-0.0077	-0.11102	137
SPS	'CUNNINGHAM 115KV'	71	-0.11614	SPS	'JONES 230KV'	104	-0.0077	-0.10844	141
SPS	'CUNNINGHAM 115KV'	110	-0.11614	SPS	'JONES 230KV'	104	-0.0077	-0.10844	141
SPS	'CUNNINGHAM 230KV'	250	-0.03607	SPS	'TOLK 230KV'	1020.232	0.01153	-0.04766	320
SPS	'CUNNINGHAM 230KV'	250	-0.03607	SPS	'WILWIND 230KV'	159.9636	0.00487	-0.04104	371
SPS	'CUNNINGHAM 230KV'	250	-0.03607	SPS	'HARRINGTON 230KV'	706	0.00363	-0.0397	384

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: GEN-51971 1
 Flowgate: 51966519691GEN5197111107FA
 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 Increment(MW)	GSF	Source Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
1090487	32.5	32.5								
SPS	'CUNNINGHAM 115KV'		71	-0.11612	SPS	'MUSTG5 118.0 230KV'	210	0.21121	-0.32733	99
SPS	'CUNNINGHAM 115KV'		110	-0.11612	SPS	'MUSTG5 118.0 230KV'	210	0.21121	-0.32733	99
SPS	'MADOX 115KV'		102.3579	-0.1187	SPS	'MUSTG5 118.0 230KV'	210	0.21121	-0.32991	99
SPS	'CUNNINGHAM 230KV'		306	-0.03606	SPS	'MUSTG5 118.0 230KV'	210	0.21121	-0.24727	131
SPS	'NICHOLS 115KV'		213	0.00339	SPS	'MUSTG5 118.0 230KV'	210	0.21121	-0.20782	156
SPS	'NICHOLS 230KV'		244	0.00348	SPS	'MUSTG5 118.0 230KV'	210	0.21121	-0.20773	156
SPS	'PLANTX 115KV'		253	0.00527	SPS	'MUSTG5 118.0 230KV'	210	0.21121	-0.20594	158
SPS	'PLANTX 230KV'		189	0.01075	SPS	'MUSTG5 118.0 230KV'	210	0.21121	-0.20046	162
SPS	'TOLK 230KV'		60.2673	0.01153	SPS	'MUSTG5 118.0 230KV'	210	0.21121	-0.19968	163
SPS	'MADOX 115KV'		102.3579	-0.1187	SPS	'TOLK 230KV'	1019.733	0.01153	-0.13023	250
SPS	'CUNNINGHAM 115KV'		110	-0.11612	SPS	'TOLK 230KV'	1019.733	0.01153	-0.12765	255
SPS	'MADOX 115KV'		102.3579	-0.1187	SPS	'WILWIND 230KV'	160	0.00487	-0.12357	263
SPS	'MADOX 115KV'		102.3579	-0.1187	SPS	'BLACKHAWK 115KV'	220	0.00348	-0.12218	266
SPS	'MADOX 115KV'		102.3579	-0.1187	SPS	'HARRINGTON 230KV'	1066	0.00352	-0.12222	266
SPS	'CUNNINGHAM 115KV'		110	-0.11612	SPS	'WILWIND 230KV'	160	0.00487	-0.12099	269
SPS	'CUNNINGHAM 115KV'		110	-0.11612	SPS	'BLACKHAWK 115KV'	220	0.00348	-0.1196	272
SPS	'CUNNINGHAM 115KV'		110	-0.11612	SPS	'HARRINGTON 230KV'	1066	0.00352	-0.11964	272
SPS	'MADOX 115KV'		102.3579	-0.1187	SPS	'SAN JUAN 230KV'	120	-0.0036	-0.1151	282
SPS	'CUNNINGHAM 115KV'		110	-0.11612	SPS	'SAN JUAN 230KV'	120	-0.0036	-0.11252	289
SPS	'MADOX 115KV'		102.3579	-0.1187	SPS	'JONES 230KV'	486	-0.00751	-0.11119	292
SPS	'CUNNINGHAM 115KV'		110	-0.11612	SPS	'JONES 230KV'	486	-0.00751	-0.10861	299
SPS	'CUNNINGHAM 230KV'		306	-0.03606	SPS	'TOLK 230KV'	1019.733	0.01153	-0.04759	683

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: GEN-51971 1
 Flowgate: 51966519691GEN5197111107SH
 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)	GSF	Source Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
1090487	29.2	29.2								
SPS	'MADOX 115KV'		75	-0.11872	SPS	'MUSTG5 118.0 230KV'	210	0.21119	-0.32991	88
SPS	'CUNNINGHAM 115KV'		71	-0.11614	SPS	'MUSTG5 118.0 230KV'	210	0.21119	-0.32733	89
SPS	'CUNNINGHAM 115KV'		110	-0.11614	SPS	'MUSTG5 118.0 230KV'	210	0.21119	-0.32733	89
SPS	'CUNNINGHAM 230KV'		110	-0.03607	SPS	'MUSTG5 118.0 230KV'	210	0.21119	-0.24726	118
SPS	'NICHOLS 115KV'		131	0.0035	SPS	'MUSTG5 118.0 230KV'	210	0.21119	-0.20769	140
SPS	'MOORE COUNTY 115KV'		48	0.00378	SPS	'MUSTG5 118.0 230KV'	210	0.21119	-0.20741	141
SPS	'NICHOLS 230KV'		244	0.00359	SPS	'MUSTG5 118.0 230KV'	210	0.21119	-0.2076	141
SPS	'PLANTX 115KV'		89.47412	0.00555	SPS	'MUSTG5 118.0 230KV'	210	0.21119	-0.20564	142
SPS	'TOLK 230KV'		52.01129	0.01159	SPS	'MUSTG5 118.0 230KV'	210	0.21119	-0.1996	146
SPS	'MADOX 115KV'		75	-0.11872	SPS	'TOLK 230KV'	1027.989	0.01159	-0.13031	224
SPS	'MADOX 115KV'		75	-0.11872	SPS	'PLANTX 230KV'	189	0.01083	-0.12955	225
SPS	'CUNNINGHAM 115KV'		110	-0.11614	SPS	'TOLK 230KV'	1027.989	0.01159	-0.12773	228
SPS	'CUNNINGHAM 115KV'		110	-0.11614	SPS	'PLANTX 230KV'	189	0.01083	-0.12697	230
SPS	'CUNNINGHAM 115KV'		110	-0.11614	SPS	'WILWIND 230KV'	159.9636	0.00497	-0.12111	241
SPS	'CUNNINGHAM 115KV'		110	-0.11614	SPS	'BLACKHAWK 115KV'	220	0.00358	-0.11972	244
SPS	'CUNNINGHAM 115KV'		110	-0.11614	SPS	'HARRINGTON 230KV'	1066	0.00363	-0.11977	244
SPS	'CUNNINGHAM 115KV'		110	-0.11614	SPS	'NICHOLS 115KV'	82	0.0035	-0.11964	244
SPS	'CUNNINGHAM 115KV'		110	-0.11614	SPS	'SAN JUAN 230KV'	119.9727	-0.00356	-0.11258	259
SPS	'CUNNINGHAM 115KV'		110	-0.11614	SPS	'JONES 230KV'	486	-0.0077	-0.10844	269

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: GEN-51971 1
 Flowgate: 51966519691GEN5197111107SP
 Date Redispatch Needed: 6/1/07 - 10/1/07
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount	Maximum Increment(MW)	GSF	Source Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
1090487	35.6	35.6								
SPS	'MADOX 115KV'		75	-0.11872	SPS	'MUSTG5 118.0 230KV'	360	0.21119	-0.32991	108
SPS	'CUNNINGHAM 115KV'		50.00977	-0.11614	SPS	'MUSTG5 118.0 230KV'	360	0.21119	-0.32733	109

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

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

Direction: From->To
 Line Outage: GEN:51971 1
 Flowgate: 51966519691GEN519711107WP
 Date Redispatch Needed: 12/1/07 - 4/1/08
 Season Flowgate Identified: 2007 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
1090487	22.4	22.4								
SPS	MUSTANG 115KV'		29	-0.39789	SPS	MUSTG5 118.0 230KV'	210	0.21121	-0.6091	37
SPS	MUSTANG 115KV'		29	-0.39789	SPS	CAPROCK 115KV'	79.98182	0.00659	-0.40448	55
SPS	MUSTANG 115KV'		29	-0.39789	SPS	TOLK 230KV'	1019.542	0.01154	-0.40943	55
SPS	MUSTANG 115KV'		29	-0.39789	SPS	BLACKHAWK 115KV'	220	0.00348	-0.40137	56
SPS	MUSTANG 115KV'		29	-0.39789	SPS	CZ 69KV'	35	0.00316	-0.40105	56
SPS	MUSTANG 115KV'		29	-0.39789	SPS	HARRINGTON 230KV'	1066	0.00353	-0.40142	56
SPS	MUSTANG 115KV'		29	-0.39789	SPS	STEER WATER 115KV'	79.98182	0.00328	-0.40117	56
SPS	MUSTANG 115KV'		29	-0.39789	SPS	WILWIND 230KV'	159.9636	0.00487	-0.40276	56
SPS	MUSTANG 115KV'		29	-0.39789	SPS	JONES 230KV'	243	-0.00751	-0.39038	57
SPS	MUSTANG 115KV'		29	-0.39789	SPS	LP-BRND2 69KV'	60	-0.00834	-0.38955	57
SPS	MUSTANG 115KV'		29	-0.39789	SPS	SAN JUAN 230KV'	119.9727	-0.0036	-0.39429	57
SPS	MUSTANG 115KV'		29	-0.39789	SPS	CUNNINGHAM 230KV'	196	-0.03606	-0.36183	62
SPS	CUNNINGHAM 115KV'		71	-0.11611	SPS	MUSTG5 118.0 230KV'	210	0.21121	-0.32732	68
SPS	CUNNINGHAM 115KV'		110	-0.11611	SPS	MUSTG5 118.0 230KV'	210	0.21121	-0.32732	68
SPS	MADDOX 115KV'		100.0889	-0.1187	SPS	MUSTG5 118.0 230KV'	210	0.21121	-0.32991	68
SPS	MUSTANG 115KV'		29	-0.39789	SPS	MADDOX 115KV'	92.91113	-0.1187	-0.27919	80
SPS	CUNNINGHAM 230KV'		110	-0.03606	SPS	MUSTG5 118.0 230KV'	210	0.21121	-0.24727	90
SPS	JONES 230KV'		243	-0.00751	SPS	MUSTG5 118.0 230KV'	210	0.21121	-0.21872	102
SPS	LP-BRND2 69KV'		172	-0.00834	SPS	MUSTG5 118.0 230KV'	210	0.21121	-0.21955	102
SPS	MOORE COUNTY 115KV'		48	0.00368	SPS	MUSTG5 118.0 230KV'	210	0.21121	-0.20753	108
SPS	NICHOLS 115KV'		213	0.00339	SPS	MUSTG5 118.0 230KV'	210	0.21121	-0.20782	108
SPS	NICHOLS 230KV'		244	0.00349	SPS	MUSTG5 118.0 230KV'	210	0.21121	-0.20772	108
SPS	PLANTX 115KV'		253	0.00528	SPS	MUSTG5 118.0 230KV'	210	0.21121	-0.20593	109
SPS	PLANTX 230KV'		189	0.01076	SPS	MUSTG5 118.0 230KV'	210	0.21121	-0.20045	112
SPS	TOLK 230KV'		60.45752	0.01154	SPS	MUSTG5 118.0 230KV'	210	0.21121	-0.19967	112
SPS	MADDOX 115KV'		100.0889	-0.1187	SPS	TOLK 230KV'	1019.542	0.01154	-0.13024	172
SPS	CUNNINGHAM 115KV'		71	-0.11611	SPS	TOLK 230KV'	1019.542	0.01154	-0.12765	175
SPS	CUNNINGHAM 115KV'		110	-0.11611	SPS	TOLK 230KV'	1019.542	0.01154	-0.12765	175
SPS	MADDOX 115KV'		100.0889	-0.1187	SPS	CAPROCK 115KV'	79.98182	0.00659	-0.12529	178
SPS	MADDOX 115KV'		100.0889	-0.1187	SPS	WILWIND 230KV'	159.9636	0.00487	-0.12357	181
SPS	CUNNINGHAM 115KV'		71	-0.11611	SPS	CAPROCK 115KV'	79.98182	0.00659	-0.1227	182
SPS	CUNNINGHAM 115KV'		110	-0.11611	SPS	CAPROCK 115KV'	79.98182	0.00659	-0.1227	182
SPS	MADDOX 115KV'		100.0889	-0.1187	SPS	BLACKHAWK 115KV'	220	0.00348	-0.12218	183
SPS	MADDOX 115KV'		100.0889	-0.1187	SPS	HARRINGTON 230KV'	1066	0.00353	-0.12223	183
SPS	MADDOX 115KV'		100.0889	-0.1187	SPS	STEER WATER 115KV'	79.98182	0.00328	-0.12198	183
SPS	CUNNINGHAM 115KV'		71	-0.11611	SPS	WILWIND 230KV'	159.9636	0.00487	-0.12098	185
SPS	CUNNINGHAM 115KV'		110	-0.11611	SPS	WILWIND 230KV'	159.9636	0.00487	-0.12098	185
SPS	CUNNINGHAM 115KV'		71	-0.11611	SPS	BLACKHAWK 115KV'	220	0.00348	-0.11959	187
SPS	CUNNINGHAM 115KV'		110	-0.11611	SPS	BLACKHAWK 115KV'	220	0.00348	-0.11959	187
SPS	CUNNINGHAM 115KV'		71	-0.11611	SPS	HARRINGTON 230KV'	1066	0.00353	-0.11964	187
SPS	CUNNINGHAM 115KV'		110	-0.11611	SPS	HARRINGTON 230KV'	1066	0.00353	-0.11964	187
SPS	CUNNINGHAM 115KV'		71	-0.11611	SPS	STEER WATER 115KV'	79.98182	0.00328	-0.11939	187
SPS	CUNNINGHAM 115KV'		110	-0.11611	SPS	STEER WATER 115KV'	79.98182	0.00328	-0.11939	187
SPS	MADDOX 115KV'		100.0889	-0.1187	SPS	SAN JUAN 230KV'	119.9727	-0.0036	-0.1151	194
SPS	CUNNINGHAM 115KV'		71	-0.11611	SPS	SAN JUAN 230KV'	119.9727	-0.0036	-0.11251	199
SPS	CUNNINGHAM 115KV'		110	-0.11611	SPS	SAN JUAN 230KV'	119.9727	-0.0036	-0.11251	199
SPS	MADDOX 115KV'		100.0889	-0.1187	SPS	JONES 230KV'	243	-0.00751	-0.11119	201
SPS	CUNNINGHAM 115KV'		71	-0.11611	SPS	JONES 230KV'	243	-0.00751	-0.1086	206
SPS	CUNNINGHAM 115KV'		110	-0.11611	SPS	JONES 230KV'	243	-0.00751	-0.1086	206
SPS	MADDOX 115KV'		100.0889	-0.1187	SPS	CUNNINGHAM 230KV'	196	-0.03606	-0.08264	271
SPS	CUNNINGHAM 115KV'		110	-0.11611	SPS	CUNNINGHAM 230KV'	196	-0.03606	-0.08005	279

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: GEN:51971 1
 Flowgate: 51966519691GEN5197114107G
 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	Aggregate Redispatch Amount (MW)
1090487	17.0	17.0								
SPS	CUNNINGHAM 115KV'		71	-0.11614	SPS	MUSTG5 118.0 230KV'	210	0.21119	-0.32733	52
SPS	MADDOX 115KV'		75	-0.11872	SPS	MUSTG5 118.0 230KV'	210	0.21119	-0.32991	52
SPS	LP-BRND2 69KV'		152	-0.00854	SPS	MUSTG5 118.0 230KV'	210	0.21119	-0.21973	78
SPS	HARRINGTON 230KV'		360	0.00363	SPS	MUSTG5 118.0 230KV'	210	0.21119	-0.20756	82
SPS	MOORE COUNTY 115KV'		48	0.00378	SPS	MUSTG5 118.0 230KV'	210	0.21119	-0.20741	82
SPS	NICHOLS 115KV'		107	0.0035	SPS	MUSTG5 118.0 230KV'	210	0.21119	-0.20769	82
SPS	NICHOLS 230KV'		113.3726	0.00359	SPS	MUSTG5 118.0 230KV'	210	0.21119	-0.2076	82
SPS	PLANTX 115KV'		48	0.00555	SPS	MUSTG5 118.0 230KV'	210	0.21119	-0.20564	83
SPS	TOLK 230KV'		65.29117	0.01159	SPS	MUSTG5 118.0 230KV'	210	0.21119	-0.1996	85
SPS	MADDOX 115KV'		75	-0.11872	SPS	TOLK 230KV'	1014.709	0.01159	-0.13031	131
SPS	MADDOX 115KV'		75	-0.11872	SPS	PLANTX 230KV'	189	0.01083	-0.12955	132
SPS	CUNNINGHAM 115KV'		71	-0.11614	SPS	TOLK 230KV'	1014.709	0.01159	-0.12773	133
SPS	CUNNINGHAM 115KV'		71	-0.11614	SPS	PLANTX 230KV'	189	0.01083	-0.12697	134
SPS	MADDOX 115KV'		75	-0.11872	SPS	CAPROCK 115KV'	79.99996	0.00665	-0.12537	136
SPS	MADDOX 115KV'		75	-0.11872	SPS	PLANTX 115KV'	205	0.00555	-0.12427	137
SPS	MADDOX 115KV'		75	-0.11872	SPS	WILWIND 230KV'	159.9999	0.00497	-0.12369	138
SPS	CUNNINGHAM 115KV'		71	-0.11614	SPS	CAPROCK 115KV'	79.99996	0.00665	-0.12279	139
SPS	MADDOX 115KV'		75	-0.11872	SPS	HARRINGTON 230KV'	706	0.00363	-0.12235	139
SPS	MADDOX 115KV'		75	-0.11872	SPS	NICHOLS 230KV'	130.6274	0.00359	-0.12231	139
SPS	CUNNINGHAM 115KV'		71	-0.11614	SPS	PLANTX 115KV'	205	0.00555	-0.12169	140
SPS	CUNNINGHAM 115KV'		71	-0.11614	SPS	WILWIND 230KV'	159.9999	0.00497	-0.12111	141
SPS	CUNNINGHAM 115KV'		71	-0.11614	SPS	HARRINGTON 230KV'	706	0.00363	-0.11977	142
SPS	CUNNINGHAM 115KV'		71	-0.11614	SPS	NICHOLS 230KV'	130.6274	0.00359	-0.11973	142
SPS	MADDOX 115KV'		75	-0.11872	SPS	SAN JUAN 230KV'	119.9999	-0.00356	-0.11516	148
SPS	CUNNINGHAM 115KV'		71	-0.11614	SPS	SAN JUAN 230KV'	119.9999	-0.00356	-0.11258	151
SPS	MADDOX 115KV'		75	-0.11872	SPS	JONES 230KV'	486	-0.0077	-0.11102	153
SPS	CUNNINGHAM 115KV'		71	-0.11614	SPS	JONES 230KV'	486	-0.0077	-0.10844	157
SPS	MADDOX 115KV'		75	-0.11872	SPS	CUNNINGHAM 230KV'	306	-0.03607	-0.08265	206
SPS	CUNNINGHAM 115KV'		71	-0.11614	SPS	CUNNINGHAM 230KV'	306	-0.03607	-0.08007	213

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 6 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

Upgrade: MUSTANG STATION 230/115KV TRANSFORMER CKT 1
 Limiting Facility: MUSTANG STATION 230/115KV TRANSFORMER CKT 1
 Direction: From->To
 Line Outage: GEN:51972 1
 Flowgate: 51966519691GEN5197211107FA
 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	31.8	31.8							
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
SPS	MADOX 115KV	102.3579	-0.1187	SPS	MUSTG5 118.0 230KV	210	0.21121	-0.32991	96
SPS	CUNNINGHAM 115KV	71	-0.11612	SPS	MUSTG5 118.0 230KV	210	0.21121	-0.32733	97
SPS	CUNNINGHAM 115KV	110	-0.11612	SPS	MUSTG5 118.0 230KV	210	0.21121	-0.32733	97
SPS	CUNNINGHAM 230KV	306	-0.03606	SPS	MUSTG5 118.0 230KV	210	0.21121	-0.24727	129
SPS	NICHOLS 115KV	213	0.00339	SPS	MUSTG5 118.0 230KV	210	0.21121	-0.20782	153
SPS	NICHOLS 230KV	244	0.00348	SPS	MUSTG5 118.0 230KV	210	0.21121	-0.20773	153
SPS	PLANTX 115KV	253	0.00527	SPS	MUSTG5 118.0 230KV	210	0.21121	-0.20594	154
SPS	PLANTX 230KV	189	0.01075	SPS	MUSTG5 118.0 230KV	210	0.21121	-0.20046	159
SPS	TOLK 230KV	60.2673	0.01153	SPS	MUSTG5 118.0 230KV	210	0.21121	-0.19968	159
SPS	MADOX 115KV	102.3579	-0.1187	SPS	TOLK 230KV	1019.733	0.01153	-0.13023	244
SPS	CUNNINGHAM 115KV	110	-0.11612	SPS	TOLK 230KV	1019.733	0.01153	-0.12765	249
SPS	MADOX 115KV	102.3579	-0.1187	SPS	WILWIND 230KV	160	0.00487	-0.12357	257
SPS	MADOX 115KV	102.3579	-0.1187	SPS	BLACKHAWK 115KV	220	0.00348	-0.12218	260
SPS	MADOX 115KV	102.3579	-0.1187	SPS	HARRINGTON 230KV	1066	0.00352	-0.12222	260
SPS	CUNNINGHAM 115KV	110	-0.11612	SPS	WILWIND 230KV	160	0.00487	-0.12099	263
SPS	CUNNINGHAM 115KV	110	-0.11612	SPS	BLACKHAWK 115KV	220	0.00348	-0.1196	266
SPS	CUNNINGHAM 115KV	110	-0.11612	SPS	HARRINGTON 230KV	1066	0.00352	-0.11964	266
SPS	MADOX 115KV	102.3579	-0.1187	SPS	SAN JUAN 230KV	120	-0.0036	-0.1151	276
SPS	CUNNINGHAM 115KV	110	-0.11612	SPS	SAN JUAN 230KV	120	-0.0036	-0.11252	283
SPS	MADOX 115KV	102.3579	-0.1187	SPS	JONES 230KV	486	-0.00751	-0.11119	286
SPS	CUNNINGHAM 115KV	110	-0.11612	SPS	JONES 230KV	486	-0.00751	-0.10861	293
SPS	CUNNINGHAM 230KV	306	-0.03606	SPS	TOLK 230KV	1019.733	0.01153	-0.04759	668

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: GEN:51972 1
 Flowgate: 51966519691GEN5197211107SH
 Date Redispatch Needed: 6/1 - 10/1 Until EOC of Upgrade
 Season Flowgate Identified: 2007 Summer Shoulder

Reservation	Relief Amount	Aggregate Relief Amount							
1090487	28.5	28.5							
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
SPS	MADOX 115KV	75	-0.11872	SPS	MUSTG5 118.0 230KV	210	0.21119	-0.32991	86
SPS	CUNNINGHAM 115KV	71	-0.11614	SPS	MUSTG5 118.0 230KV	210	0.21119	-0.32733	87
SPS	CUNNINGHAM 115KV	110	-0.11614	SPS	MUSTG5 118.0 230KV	210	0.21119	-0.32733	87
SPS	CUNNINGHAM 230KV	110	-0.03607	SPS	MUSTG5 118.0 230KV	210	0.21119	-0.24726	115
SPS	MOORE COUNTY 115KV	48	0.00378	SPS	MUSTG5 118.0 230KV	210	0.21119	-0.20741	137
SPS	NICHOLS 115KV	131	0.0035	SPS	MUSTG5 118.0 230KV	210	0.21119	-0.20769	137
SPS	NICHOLS 230KV	244	0.00359	SPS	MUSTG5 118.0 230KV	210	0.21119	-0.2076	137
SPS	PLANTX 115KV	89.47412	0.00555	SPS	MUSTG5 118.0 230KV	210	0.21119	-0.20564	138
SPS	TOLK 230KV	52.01129	0.01159	SPS	MUSTG5 118.0 230KV	210	0.21119	-0.1996	143
SPS	MADOX 115KV	75	-0.11872	SPS	TOLK 230KV	1027.989	0.01159	-0.13031	218
SPS	MADOX 115KV	75	-0.11872	SPS	PLANTX 230KV	189	0.01083	-0.12955	220
SPS	CUNNINGHAM 115KV	110	-0.11614	SPS	TOLK 230KV	1027.989	0.01159	-0.12773	223
SPS	CUNNINGHAM 115KV	110	-0.11614	SPS	PLANTX 230KV	189	0.01083	-0.12697	224
SPS	CUNNINGHAM 115KV	110	-0.11614	SPS	PLANTX 115KV	163.5259	0.00555	-0.12169	234
SPS	CUNNINGHAM 115KV	110	-0.11614	SPS	WILWIND 230KV	159.9636	0.00497	-0.12111	235
SPS	CUNNINGHAM 115KV	110	-0.11614	SPS	BLACKHAWK 115KV	220	0.00358	-0.11972	238
SPS	CUNNINGHAM 115KV	110	-0.11614	SPS	HARRINGTON 230KV	1066	0.00363	-0.11977	238
SPS	CUNNINGHAM 115KV	110	-0.11614	SPS	NICHOLS 115KV	82	0.0035	-0.11964	238
SPS	CUNNINGHAM 115KV	110	-0.11614	SPS	STEER WATER 115KV	79.98182	0.00338	-0.11952	238
SPS	CUNNINGHAM 115KV	110	-0.11614	SPS	SAN JUAN 230KV	119.9727	-0.00356	-0.11258	253
SPS	CUNNINGHAM 115KV	110	-0.11614	SPS	JONES 230KV	486	-0.0077	-0.10844	263

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: GEN:51972 1
 Flowgate: 51966519691GEN5197211107SP
 Date Redispatch Needed: 6/1/07 - 10/1/07
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount							
1090487	35.6	35.6							
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
SPS	MADOX 115KV	75	-0.11872	SPS	MUSTG5 118.0 230KV	360	0.21119	-0.32991	108
SPS	CUNNINGHAM 115KV	50.00977	-0.11614	SPS	MUSTG5 118.0 230KV	360	0.21119	-0.32733	109

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: GEN:51972 1
 Flowgate: 51966519691GEN5197211107WP
 Date Redispatch Needed: 12/1/07 - 4/1/08
 Season Flowgate Identified: 2007 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount							
1090487	21.9	21.9							
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
SPS	MUSTANG 115KV	29	-0.39789	SPS	MUSTG5 118.0 230KV	210	0.21121	-0.6091	36
SPS	MUSTANG 115KV	29	-0.39789	SPS	TOLK 230KV	1019.542	0.01154	-0.40943	53

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

SPS	MUSTANG 115KV'	29	-0.39789	SPS	CAPROCK 115KV'	79.98182	0.00659	-0.40448	54
SPS	MUSTANG 115KV'	29	-0.39789	SPS	WILWIND 230KV'	159.9636	0.00487	-0.40276	54
SPS	MUSTANG 115KV'	29	-0.39789	SPS	BLACKHAWK 115KV'	220	0.00348	-0.40137	55
SPS	MUSTANG 115KV'	29	-0.39789	SPS	CZ 69KV'	35	0.00316	-0.40105	55
SPS	MUSTANG 115KV'	29	-0.39789	SPS	HARRINGTON 230KV'	1066	0.00353	-0.40142	55
SPS	MUSTANG 115KV'	29	-0.39789	SPS	STEER WATER 115KV'	79.98182	0.00328	-0.40117	55
SPS	MUSTANG 115KV'	29	-0.39789	SPS	JONES 230KV'	243	-0.00751	-0.39038	56
SPS	MUSTANG 115KV'	29	-0.39789	SPS	LP-BRND2 69KV'	60	-0.00834	-0.38955	56
SPS	MUSTANG 115KV'	29	-0.39789	SPS	SAN JUAN 230KV'	119.8727	-0.0036	-0.39429	56
SPS	MUSTANG 115KV'	29	-0.39789	SPS	CUNNINGHAM 230KV'	196	-0.03606	-0.36183	60
SPS	MADOX 115KV'	100.0889	-0.1187	SPS	MUSTG5 118.0 230KV'	210	0.21121	-0.32991	66
SPS	CUNNINGHAM 115KV'	71	-0.11611	SPS	MUSTG5 118.0 230KV'	210	0.21121	-0.32732	67
SPS	CUNNINGHAM 115KV'	110	-0.11611	SPS	MUSTG5 118.0 230KV'	210	0.21121	-0.32732	67
SPS	MUSTANG 115KV'	29	-0.39789	SPS	MADOX 115KV'	92.91113	-0.1187	-0.27919	78
SPS	CUNNINGHAM 230KV'	110	-0.03606	SPS	MUSTG5 118.0 230KV'	210	0.21121	-0.24727	89
SPS	JONES 230KV'	243	-0.00751	SPS	MUSTG5 118.0 230KV'	210	0.21121	-0.21872	100
SPS	LP-BRND2 69KV'	172	-0.00834	SPS	MUSTG5 118.0 230KV'	210	0.21121	-0.21955	100
SPS	MOORE COUNTY 115KV'	48	0.00368	SPS	MUSTG5 118.0 230KV'	210	0.21121	-0.20753	105
SPS	NICHOLS 115KV'	213	0.00339	SPS	MUSTG5 118.0 230KV'	210	0.21121	-0.20782	105
SPS	NICHOLS 230KV'	244	0.00349	SPS	MUSTG5 118.0 230KV'	210	0.21121	-0.20772	105
SPS	PLANTX 115KV'	253	0.00528	SPS	MUSTG5 118.0 230KV'	210	0.21121	-0.20593	106
SPS	PLANTX 230KV'	189	0.01076	SPS	MUSTG5 118.0 230KV'	210	0.21121	-0.20045	109
SPS	TOLK 230KV'	60.45752	0.01154	SPS	MUSTG5 118.0 230KV'	210	0.21121	-0.19967	110
SPS	MADOX 115KV'	100.0889	-0.1187	SPS	TOLK 230KV'	1019.542	0.01154	-0.13024	168
SPS	CUNNINGHAM 115KV'	71	-0.11611	SPS	TOLK 230KV'	1019.542	0.01154	-0.12765	171
SPS	CUNNINGHAM 115KV'	110	-0.11611	SPS	TOLK 230KV'	1019.542	0.01154	-0.12765	171
SPS	MADOX 115KV'	100.0889	-0.1187	SPS	CAPROCK 115KV'	79.98182	0.00659	-0.12529	175
SPS	MADOX 115KV'	100.0889	-0.1187	SPS	WILWIND 230KV'	159.9636	0.00487	-0.12357	177
SPS	CUNNINGHAM 115KV'	71	-0.11611	SPS	CAPROCK 115KV'	79.98182	0.00659	-0.1227	178
SPS	CUNNINGHAM 115KV'	110	-0.11611	SPS	CAPROCK 115KV'	79.98182	0.00659	-0.1227	178
SPS	MADOX 115KV'	100.0889	-0.1187	SPS	BLACKHAWK 115KV'	220	0.00348	-0.12218	179
SPS	MADOX 115KV'	100.0889	-0.1187	SPS	HARRINGTON 230KV'	1066	0.00353	-0.12223	179
SPS	MADOX 115KV'	100.0889	-0.1187	SPS	STEER WATER 115KV'	79.98182	0.00328	-0.12198	179
SPS	CUNNINGHAM 115KV'	71	-0.11611	SPS	WILWIND 230KV'	159.9636	0.00487	-0.12098	181
SPS	CUNNINGHAM 115KV'	110	-0.11611	SPS	WILWIND 230KV'	159.9636	0.00487	-0.12098	181
SPS	CUNNINGHAM 115KV'	71	-0.11611	SPS	BLACKHAWK 115KV'	220	0.00348	-0.11959	183
SPS	CUNNINGHAM 115KV'	110	-0.11611	SPS	BLACKHAWK 115KV'	220	0.00348	-0.11959	183
SPS	CUNNINGHAM 115KV'	71	-0.11611	SPS	HARRINGTON 230KV'	1066	0.00353	-0.11964	183
SPS	CUNNINGHAM 115KV'	110	-0.11611	SPS	HARRINGTON 230KV'	1066	0.00353	-0.11964	183
SPS	CUNNINGHAM 115KV'	71	-0.11611	SPS	STEER WATER 115KV'	79.98182	0.00328	-0.11939	183
SPS	CUNNINGHAM 115KV'	110	-0.11611	SPS	STEER WATER 115KV'	79.98182	0.00328	-0.11939	183
SPS	MADOX 115KV'	100.0889	-0.1187	SPS	SAN JUAN 230KV'	119.8727	-0.0036	-0.1151	195
SPS	CUNNINGHAM 115KV'	71	-0.11611	SPS	SAN JUAN 230KV'	119.8727	-0.0036	-0.11251	195
SPS	CUNNINGHAM 115KV'	110	-0.11611	SPS	SAN JUAN 230KV'	119.8727	-0.0036	-0.11251	195
SPS	MADOX 115KV'	100.0889	-0.1187	SPS	JONES 230KV'	243	-0.00751	-0.11119	197
SPS	CUNNINGHAM 115KV'	71	-0.11611	SPS	JONES 230KV'	243	-0.00751	-0.1086	202
SPS	CUNNINGHAM 115KV'	110	-0.11611	SPS	JONES 230KV'	243	-0.00751	-0.1086	202
SPS	MADOX 115KV'	100.0889	-0.1187	SPS	CUNNINGHAM 230KV'	196	-0.03606	-0.08264	265
SPS	CUNNINGHAM 115KV'	110	-0.11611	SPS	CUNNINGHAM 230KV'	196	-0.03606	-0.08005	273

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: GEN51972 1
 Flowgate: 51966519681GEN5197214107G
 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	Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
1090487	16.1	16.1	SPS	CUNNINGHAM 115KV'	71	-0.11614	SPS	MUSTG5 118.0 230KV'	210	0.21119	-0.32733	49
			SPS	MADOX 115KV'	75	-0.11872	SPS	MUSTG5 118.0 230KV'	210	0.21119	-0.32991	49
			SPS	LP-BRND2 69KV'	152	-0.00854	SPS	MUSTG5 118.0 230KV'	210	0.21119	-0.21973	73
			SPS	HARRINGTON 230KV'	360	0.00363	SPS	MUSTG5 118.0 230KV'	210	0.21119	-0.20756	78
			SPS	MOORE COUNTY 115KV'	48	0.00378	SPS	MUSTG5 118.0 230KV'	210	0.21119	-0.20741	78
			SPS	NICHOLS 115KV'	107	0.0035	SPS	MUSTG5 118.0 230KV'	210	0.21119	-0.20769	78
			SPS	NICHOLS 230KV'	113.3726	0.00359	SPS	MUSTG5 118.0 230KV'	210	0.21119	-0.2076	78
			SPS	PLANTX 115KV'	48	0.00355	SPS	MUSTG5 118.0 230KV'	210	0.21119	-0.20564	78
			SPS	TOLK 230KV'	65.29117	0.01159	SPS	MUSTG5 118.0 230KV'	210	0.21119	-0.1996	81
			SPS	MADOX 115KV'	75	-0.11872	SPS	PLANTX 230KV'	189	0.01083	-0.12955	124
			SPS	MADOX 115KV'	75	-0.11872	SPS	TOLK 230KV'	1014.709	0.01159	-0.13031	124
			SPS	CUNNINGHAM 115KV'	71	-0.11614	SPS	TOLK 230KV'	1014.709	0.01159	-0.12773	126
			SPS	CUNNINGHAM 115KV'	71	-0.11614	SPS	PLANTX 230KV'	189	0.01083	-0.12697	127
			SPS	MADOX 115KV'	75	-0.11872	SPS	CAPROCK 115KV'	79.99996	0.00665	-0.12537	128
			SPS	MADOX 115KV'	75	-0.11872	SPS	PLANTX 115KV'	205	0.00555	-0.12427	130
			SPS	MADOX 115KV'	75	-0.11872	SPS	WILWIND 230KV'	159.9999	0.00497	-0.12369	130
			SPS	CUNNINGHAM 115KV'	71	-0.11614	SPS	CAPROCK 115KV'	79.99996	0.00665	-0.12279	131
			SPS	CUNNINGHAM 115KV'	71	-0.11614	SPS	PLANTX 115KV'	205	0.00555	-0.12169	132
			SPS	MADOX 115KV'	75	-0.11872	SPS	HARRINGTON 230KV'	706	0.00363	-0.12235	132
			SPS	MADOX 115KV'	75	-0.11872	SPS	NICHOLS 230KV'	130.6274	0.00359	-0.12231	132
			SPS	CUNNINGHAM 115KV'	71	-0.11614	SPS	WILWIND 230KV'	159.9999	0.00497	-0.12111	133
			SPS	CUNNINGHAM 115KV'	71	-0.11614	SPS	HARRINGTON 230KV'	706	0.00363	-0.11977	134
			SPS	CUNNINGHAM 115KV'	71	-0.11614	SPS	NICHOLS 230KV'	130.6274	0.00359	-0.11973	134
			SPS	MADOX 115KV'	75	-0.11872	SPS	SAN JUAN 230KV'	119.9999	-0.00356	-0.11516	140
			SPS	CUNNINGHAM 115KV'	71	-0.11614	SPS	SAN JUAN 230KV'	119.9999	-0.00356	-0.11258	143
			SPS	MADOX 115KV'	75	-0.11872	SPS	JONES 230KV'	486	-0.0077	-0.11102	145
			SPS	CUNNINGHAM 115KV'	71	-0.11614	SPS	JONES 230KV'	486	-0.0077	-0.10844	148
			SPS	MADOX 115KV'	75	-0.11872	SPS	CUNNINGHAM 230KV'	306	-0.03607	-0.08265	195
			SPS	CUNNINGHAM 115KV'	71	-0.11614	SPS	CUNNINGHAM 230KV'	306	-0.03607	-0.08007	201

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 Displacement
 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: 51960519661519625196811107SH
 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	Aggregate Redispatch Amount (MW)
1090487	13.3	13.3										

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

SPS	MADDOX 115KV	75	-0.16452	SPS	MUSTG5 118.0 230KV	210	0.15058	-0.3151	42
SPS	CUNNINGHAM 115KV	71	-0.16155	SPS	MUSTG5 118.0 230KV	210	0.15058	-0.31213	43
SPS	CUNNINGHAM 115KV	110	-0.16155	SPS	MUSTG5 118.0 230KV	210	0.15058	-0.31213	43
SPS	CUNNINGHAM 230KV	110	-0.07301	SPS	MUSTG5 118.0 230KV	210	0.15058	-0.22559	60
SPS	MADDOX 115KV	75	-0.16452	SPS	PLANTX 230KV	189	0.00438	-0.1689	79
SPS	MADDOX 115KV	75	-0.16452	SPS	TOLK 230KV	1027.989	0.00375	-0.16827	79
SPS	CUNNINGHAM 115KV	71	-0.16155	SPS	PLANTX 230KV	189	0.00438	-0.16593	80
SPS	CUNNINGHAM 115KV	110	-0.16155	SPS	PLANTX 230KV	189	0.00438	-0.16593	80
SPS	MADDOX 115KV	75	-0.16452	SPS	BLACKHAWK 115KV	220	0.0013	-0.16582	80
SPS	MADDOX 115KV	75	-0.16452	SPS	HARRINGTON 230KV	1066	0.00132	-0.16584	80
SPS	MADDOX 115KV	75	-0.16452	SPS	NICHOLS 115KV	82	0.00126	-0.16578	80
SPS	MADDOX 115KV	75	-0.16452	SPS	PLANTX 115KV	163.5259	0.0022	-0.16672	80
SPS	MADDOX 115KV	75	-0.16452	SPS	STEER WATER 115KV	79.98182	0.00122	-0.16574	80
SPS	MADDOX 115KV	75	-0.16452	SPS	WILWIND 230KV	159.9636	0.00178	-0.1663	80
SPS	CUNNINGHAM 115KV	71	-0.16155	SPS	PLANTX 115KV	163.5259	0.0022	-0.16375	81
SPS	CUNNINGHAM 115KV	110	-0.16155	SPS	PLANTX 115KV	163.5259	0.0022	-0.16375	81
SPS	CUNNINGHAM 115KV	71	-0.16155	SPS	TOLK 230KV	1027.989	0.00375	-0.1653	81
SPS	CUNNINGHAM 115KV	110	-0.16155	SPS	TOLK 230KV	1027.989	0.00375	-0.1653	81
SPS	CUNNINGHAM 115KV	71	-0.16155	SPS	BLACKHAWK 115KV	220	0.0013	-0.16285	82
SPS	CUNNINGHAM 115KV	110	-0.16155	SPS	BLACKHAWK 115KV	220	0.0013	-0.16285	82
SPS	CUNNINGHAM 115KV	71	-0.16155	SPS	HARRINGTON 230KV	1066	0.00132	-0.16287	82
SPS	CUNNINGHAM 115KV	110	-0.16155	SPS	HARRINGTON 230KV	1066	0.00132	-0.16287	82
SPS	CUNNINGHAM 115KV	71	-0.16155	SPS	NICHOLS 115KV	82	0.00126	-0.16281	82
SPS	CUNNINGHAM 115KV	110	-0.16155	SPS	NICHOLS 115KV	82	0.00126	-0.16281	82
SPS	CUNNINGHAM 115KV	71	-0.16155	SPS	STEER WATER 115KV	79.98182	0.00122	-0.16277	82
SPS	CUNNINGHAM 115KV	110	-0.16155	SPS	STEER WATER 115KV	79.98182	0.00122	-0.16277	82
SPS	CUNNINGHAM 115KV	71	-0.16155	SPS	WILWIND 230KV	159.9636	0.00178	-0.16333	82
SPS	CUNNINGHAM 115KV	110	-0.16155	SPS	WILWIND 230KV	159.9636	0.00178	-0.16333	82
SPS	MADDOX 115KV	75	-0.16452	SPS	CAPROCK 115KV	79.98182	-0.00267	-0.16185	82
SPS	MADDOX 115KV	75	-0.16452	SPS	JONES 230KV	486	-0.00223	-0.16229	82
SPS	MADDOX 115KV	75	-0.16452	SPS	LP-BRND2 69KV	80	-0.00258	-0.16194	82
SPS	CUNNINGHAM 115KV	71	-0.16155	SPS	CAPROCK 115KV	79.98182	-0.00267	-0.15888	84
SPS	CUNNINGHAM 115KV	110	-0.16155	SPS	CAPROCK 115KV	79.98182	-0.00267	-0.15888	84
SPS	CUNNINGHAM 115KV	71	-0.16155	SPS	JONES 230KV	486	-0.00223	-0.15932	84
SPS	CUNNINGHAM 115KV	110	-0.16155	SPS	JONES 230KV	486	-0.00223	-0.15932	84
SPS	CUNNINGHAM 115KV	71	-0.16155	SPS	LP-BRND2 69KV	80	-0.00258	-0.15897	84
SPS	LP-BRND2 69KV	152	-0.00258	SPS	MUSTG5 118.0 230KV	210	0.15058	-0.15316	87
SPS	MOORE COUNTY 115KV	48	0.00138	SPS	MUSTG5 118.0 230KV	210	0.15058	-0.1492	89
SPS	NICHOLS 115KV	131	0.00126	SPS	MUSTG5 118.0 230KV	210	0.15058	-0.14932	89
SPS	NICHOLS 230KV	244	0.0013	SPS	MUSTG5 118.0 230KV	210	0.15058	-0.14928	89
SPS	PLANTX 115KV	89.47412	0.0022	SPS	MUSTG5 118.0 230KV	210	0.15058	-0.14838	90
SPS	TOLK 230KV	52.01129	0.00375	SPS	MUSTG5 118.0 230KV	210	0.15058	-0.14683	91
SPS	MADDOX 115KV	75	-0.16452	SPS	SAN JUAN 230KV	119.9727	-0.01887	-0.14565	92
SPS	CUNNINGHAM 115KV	71	-0.16155	SPS	SAN JUAN 230KV	119.9727	-0.01887	-0.14268	93
SPS	CUNNINGHAM 115KV	110	-0.16155	SPS	SAN JUAN 230KV	119.9727	-0.01887	-0.14268	93
SPS	MADDOX 115KV	75	-0.16452	SPS	CUNNINGHAM 230KV	196	-0.07301	-0.09151	146
SPS	CUNNINGHAM 115KV	71	-0.16155	SPS	CUNNINGHAM 230KV	196	-0.07301	-0.08854	151
SPS	CUNNINGHAM 115KV	110	-0.16155	SPS	CUNNINGHAM 230KV	196	-0.07301	-0.08854	151
SPS	CUNNINGHAM 230KV	110	-0.07301	SPS	PLANTX 230KV	189	0.00438	-0.07739	172
SPS	CUNNINGHAM 230KV	110	-0.07301	SPS	TOLK 230KV	1027.989	0.00375	-0.07676	174
SPS	CUNNINGHAM 230KV	110	-0.07301	SPS	PLANTX 115KV	163.5259	0.0022	-0.07521	177
SPS	CUNNINGHAM 230KV	110	-0.07301	SPS	WILWIND 230KV	159.9636	0.00178	-0.07479	178
SPS	CUNNINGHAM 230KV	110	-0.07301	SPS	HARRINGTON 230KV	1066	0.00132	-0.07433	179
SPS	CUNNINGHAM 230KV	110	-0.07301	SPS	BLACKHAWK 115KV	220	0.0013	-0.07431	180
SPS	CUNNINGHAM 230KV	110	-0.07301	SPS	NICHOLS 115KV	82	0.00126	-0.07427	180
SPS	CUNNINGHAM 230KV	110	-0.07301	SPS	STEER WATER 115KV	79.98182	0.00122	-0.07423	180
SPS	CUNNINGHAM 230KV	110	-0.07301	SPS	JONES 230KV	486	-0.00223	-0.07078	189
SPS	CUNNINGHAM 230KV	110	-0.07301	SPS	CAPROCK 115KV	79.98182	-0.00267	-0.07034	190
SPS	CUNNINGHAM 230KV	110	-0.07301	SPS	SAN JUAN 230KV	119.9727	-0.01887	-0.05414	246

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 Displacement
 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

Reservation	Relief Amount	Aggregate Relief Amount	Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
1090487	23.8	23.8	SPS	CUNNINGHAM 115KV	50.00977	-0.16155	SPS	MUSTG5 118.0 230KV	360	0.15058	-0.31213	76
			SPS	MADDOX 115KV	75	-0.16452	SPS	MUSTG5 118.0 230KV	360	0.15058	-0.3151	76
			SPS	MADDOX 115KV	75	-0.16452	SPS	PLANTX 230KV	189	0.00438	-0.1689	141
			SPS	MADDOX 115KV	75	-0.16452	SPS	TOLK 230KV	1024.722	0.00375	-0.16827	142
			SPS	MADDOX 115KV	75	-0.16452	SPS	PLANTX 115KV	205	0.0022	-0.16672	143
			SPS	MADDOX 115KV	75	-0.16452	SPS	WILWIND 230KV	159.9636	0.00178	-0.16663	143
			SPS	CUNNINGHAM 115KV	50.00977	-0.16155	SPS	PLANTX 230KV	189	0.00438	-0.16593	144
			SPS	CUNNINGHAM 115KV	50.00977	-0.16155	SPS	TOLK 230KV	1024.722	0.00375	-0.1653	144
			SPS	MADDOX 115KV	75	-0.16452	SPS	BLACKHAWK 115KV	220	0.0013	-0.16582	144
			SPS	MADDOX 115KV	75	-0.16452	SPS	HARRINGTON 230KV	1066	0.00132	-0.16584	144
			SPS	MADDOX 115KV	75	-0.16452	SPS	NICHOLS 115KV	147	0.00126	-0.16578	144
			SPS	MADDOX 115KV	75	-0.16452	SPS	NICHOLS 230KV	147	0.0013	-0.16582	144
			SPS	MADDOX 115KV	75	-0.16452	SPS	STEER WATER 115KV	79.98182	0.00122	-0.16574	144
			SPS	CUNNINGHAM 115KV	50.00977	-0.16155	SPS	PLANTX 115KV	205	0.0022	-0.16375	145
			SPS	CUNNINGHAM 115KV	50.00977	-0.16155	SPS	BLACKHAWK 115KV	220	0.0013	-0.16285	146
			SPS	CUNNINGHAM 115KV	50.00977	-0.16155	SPS	HARRINGTON 230KV	1066	0.00132	-0.16287	146
			SPS	CUNNINGHAM 115KV	50.00977	-0.16155	SPS	NICHOLS 115KV	147	0.00126	-0.16281	146
			SPS	CUNNINGHAM 115KV	50.00977	-0.16155	SPS	NICHOLS 230KV	147	0.0013	-0.16285	146
			SPS	CUNNINGHAM 115KV	50.00977	-0.16155	SPS	STEER WATER 115KV	79.98182	0.00122	-0.16277	146
			SPS	CUNNINGHAM 115KV	50.00977	-0.16155	SPS	WILWIND 230KV	159.9636	0.00178	-0.16333	146
			SPS	MADDOX 115KV	75	-0.16452	SPS	CAPROCK 115KV	79.98182	-0.00267	-0.16185	147
			SPS	MADDOX 115KV	75	-0.16452	SPS	JONES 230KV	486	-0.00223	-0.16229	147
			SPS	CUNNINGHAM 115KV	50.00977	-0.16155	SPS	CAPROCK 115KV	79.98182	-0.00267	-0.15888	150
			SPS	CUNNINGHAM 115KV	50.00977	-0.16155	SPS	JONES 230KV	486	-0.00223	-0.15932	150
			SPS	TOLK 230KV	55.27795	0.00375	SPS	MUSTG5 118.0 230KV	360	0.15058	-0.14683	162
			SPS	MADDOX 115KV	75	-0.16452	SPS	SAN JUAN 230KV	119.9727	-0.01887	-0.14565	164

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 Displacement
 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: Starting 2007 4/1 - 6/1 Until EOC of Upgrade

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

Season Flowgate Identified: 2007 Spring Peak		Aggregate Relief Amount								Aggregate Redispatch Amount (MW)
Reservation	Relief Amount	1.9								1.9
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)	
SPS	CUNNINGHAM 115KV	71	-0.16155	SPS	MUSTG5 118.0 230KV	210	0.15058	-0.31213	6	
SPS	MADOX 115KV	75	-0.16452	SPS	MUSTG5 118.0 230KV	210	0.15058	-0.3151	6	
SPS	CARLSBAD 69KV	18	-0.07652	SPS	MUSTG5 118.0 230KV	210	0.15058	-0.2271	8	
SPS	CUNNINGHAM 115KV	71	-0.16155	SPS	PLANTX 230KV	189	0.00438	-0.16593	11	
SPS	CUNNINGHAM 115KV	71	-0.16155	SPS	TOLK 230KV	1012.904	0.00374	-0.16529	11	
SPS	MADOX 115KV	75	-0.16452	SPS	HARRINGTON 230KV	706	0.00132	-0.16584	11	
SPS	MADOX 115KV	75	-0.16452	SPS	PLANTX 115KV	205	0.0022	-0.16672	11	
SPS	MADOX 115KV	75	-0.16452	SPS	PLANTX 230KV	189	0.00438	-0.16689	11	
SPS	MADOX 115KV	75	-0.16452	SPS	TOLK 230KV	1012.904	0.00374	-0.16826	11	
SPS	MADOX 115KV	75	-0.16452	SPS	WILWIND 230KV	72	0.00178	-0.16663	11	
SPS	CUNNINGHAM 115KV	71	-0.16155	SPS	CAPROCK 115KV	36	-0.00267	-0.15888	12	
SPS	CUNNINGHAM 115KV	71	-0.16155	SPS	HARRINGTON 230KV	706	0.00132	-0.16287	12	
SPS	CUNNINGHAM 115KV	71	-0.16155	SPS	JONES 230KV	486	-0.00223	-0.15932	12	
SPS	CUNNINGHAM 115KV	71	-0.16155	SPS	LP-BRND2 69KV	80	-0.00258	-0.15897	12	
SPS	CUNNINGHAM 115KV	71	-0.16155	SPS	PLANTX 115KV	205	0.0022	-0.16375	12	
SPS	CUNNINGHAM 115KV	71	-0.16155	SPS	WILWIND 230KV	72	0.00178	-0.16333	12	
SPS	LP-BRND2 69KV	152	-0.00298	SPS	MUSTG5 118.0 230KV	210	0.15058	-0.15316	12	
SPS	MADOX 115KV	75	-0.16452	SPS	CAPROCK 115KV	36	-0.00267	-0.16185	12	
SPS	MADOX 115KV	75	-0.16452	SPS	JONES 230KV	486	-0.00223	-0.16229	12	
SPS	MADOX 115KV	75	-0.16452	SPS	LP-BRND2 69KV	80	-0.00258	-0.16194	12	
SPS	TUCUMCARI 115KV	15	-0.00267	SPS	MUSTG5 118.0 230KV	210	0.15058	-0.15325	12	
SPS	CUNNINGHAM 115KV	71	-0.16155	SPS	SAN JUAN 230KV	54	-0.01887	-0.14268	13	
SPS	HARRINGTON 230KV	360	0.00132	SPS	MUSTG5 118.0 230KV	210	0.15058	-0.14926	13	
SPS	HUBRCO2 69KV	6	0.0013	SPS	MUSTG5 118.0 230KV	210	0.15058	-0.14928	13	
SPS	MADOX 115KV	75	-0.16452	SPS	SAN JUAN 230KV	54	-0.01887	-0.14565	13	
SPS	MOORE COUNTY 115KV	48	0.00138	SPS	MUSTG5 118.0 230KV	210	0.15058	-0.1492	13	
SPS	NICHOLS 115KV	132.2241	0.00126	SPS	MUSTG5 118.0 230KV	210	0.15058	-0.14932	13	
SPS	NICHOLS 230KV	244	0.0013	SPS	MUSTG5 118.0 230KV	210	0.15058	-0.14928	13	
SPS	PLANTX 115KV	48	0.0022	SPS	MUSTG5 118.0 230KV	210	0.15058	-0.14838	13	
SPS	RIVERVIEW 69KV	23	0.0013	SPS	MUSTG5 118.0 230KV	210	0.15058	-0.14928	13	
SPS	SIDRCH 69KV	6	0.0013	SPS	MUSTG5 118.0 230KV	210	0.15058	-0.14928	13	
SPS	TOLK 230KV	67.09586	0.00374	SPS	MUSTG5 118.0 230KV	210	0.15058	-0.14684	13	
SPS	CUNNINGHAM 115KV	71	-0.16155	SPS	CUNNINGHAM 230KV	306	-0.07301	-0.08854	21	
SPS	MADOX 115KV	75	-0.16452	SPS	CUNNINGHAM 230KV	306	-0.07301	-0.09151	21	
SPS	CARLSBAD 69KV	18	-0.07652	SPS	PLANTX 230KV	189	0.00438	-0.0809	23	
SPS	CARLSBAD 69KV	18	-0.07652	SPS	HARRINGTON 230KV	706	0.00132	-0.07794	24	
SPS	CARLSBAD 69KV	18	-0.07652	SPS	PLANTX 115KV	205	0.0022	-0.07872	24	
SPS	CARLSBAD 69KV	18	-0.07652	SPS	TOLK 230KV	1012.904	0.00374	-0.08026	24	
SPS	CARLSBAD 69KV	18	-0.07652	SPS	WILWIND 230KV	72	0.00178	-0.0783	24	
SPS	CARLSBAD 69KV	18	-0.07652	SPS	JONES 230KV	486	-0.00223	-0.07429	25	
SPS	CARLSBAD 69KV	18	-0.07652	SPS	CAPROCK 115KV	36	-0.00267	-0.07385	26	
SPS	CARLSBAD 69KV	18	-0.07652	SPS	LP-BRND2 69KV	80	-0.00258	-0.07394	26	
SPS	CARLSBAD 69KV	18	-0.07652	SPS	SAN JUAN 230KV	54	-0.01887	-0.05765	33	

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 Displacement
 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: 51962519681519605196611107SH
 Date Redispatch Needed: 6/1 - 10/1 Until EOC of Upgrade
 Season Flowgate Identified: 2007 Summer Shoulder

Season Flowgate Identified: 2007 Summer Shoulder		Aggregate Relief Amount								Aggregate Redispatch Amount (MW)
Reservation	Relief Amount	9.5								9.5
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)	
SPS	MADOX 115KV	75	-0.16383	SPS	MUSTG5 118.0 230KV	210	0.14753	-0.31136	30	
SPS	CUNNINGHAM 115KV	71	-0.16067	SPS	MUSTG5 118.0 230KV	210	0.14753	-0.3082	31	
SPS	CUNNINGHAM 115KV	110	-0.16067	SPS	MUSTG5 118.0 230KV	210	0.14753	-0.3082	31	
SPS	CARLSBAD 69KV	18	-0.07637	SPS	MUSTG5 118.0 230KV	210	0.14753	-0.2239	42	
SPS	CUNNINGHAM 230KV	110	-0.07304	SPS	MUSTG5 118.0 230KV	210	0.14753	-0.22057	43	
SPS	MADOX 115KV	75	-0.16383	SPS	PLANTX 230KV	189	0.00419	-0.16802	56	
SPS	MADOX 115KV	75	-0.16383	SPS	BLACKHAWK 115KV	220	0.00124	-0.16507	57	
SPS	MADOX 115KV	75	-0.16383	SPS	HARRINGTON 230KV	1066	0.00125	-0.16508	57	
SPS	MADOX 115KV	75	-0.16383	SPS	NICHOLS 115KV	82	0.0012	-0.16503	57	
SPS	MADOX 115KV	75	-0.16383	SPS	PLANTX 115KV	163.5259	0.0021	-0.16593	57	
SPS	MADOX 115KV	75	-0.16383	SPS	STEER WATER 115KV	79.98182	0.00116	-0.16499	57	
SPS	MADOX 115KV	75	-0.16383	SPS	TOLK 230KV	1027.989	0.00353	-0.16736	57	
SPS	MADOX 115KV	75	-0.16383	SPS	WILWIND 230KV	159.9636	0.00169	-0.16552	57	
SPS	CUNNINGHAM 115KV	71	-0.16067	SPS	PLANTX 115KV	163.5259	0.0021	-0.16277	58	
SPS	CUNNINGHAM 115KV	110	-0.16067	SPS	PLANTX 115KV	163.5259	0.0021	-0.16277	58	
SPS	CUNNINGHAM 115KV	71	-0.16067	SPS	PLANTX 230KV	189	0.00419	-0.16486	58	
SPS	CUNNINGHAM 115KV	110	-0.16067	SPS	PLANTX 230KV	189	0.00419	-0.16486	58	
SPS	CUNNINGHAM 115KV	71	-0.16067	SPS	TOLK 230KV	1027.989	0.00353	-0.1642	58	
SPS	CUNNINGHAM 115KV	110	-0.16067	SPS	TOLK 230KV	1027.989	0.00353	-0.1642	58	
SPS	CUNNINGHAM 115KV	71	-0.16067	SPS	WILWIND 230KV	159.9636	0.00169	-0.16236	58	
SPS	CUNNINGHAM 115KV	110	-0.16067	SPS	WILWIND 230KV	159.9636	0.00169	-0.16236	58	
SPS	CUNNINGHAM 115KV	71	-0.16067	SPS	BLACKHAWK 115KV	220	0.00124	-0.16191	59	
SPS	CUNNINGHAM 115KV	110	-0.16067	SPS	BLACKHAWK 115KV	220	0.00124	-0.16191	59	
SPS	CUNNINGHAM 115KV	71	-0.16067	SPS	HARRINGTON 230KV	1066	0.00125	-0.16192	59	
SPS	CUNNINGHAM 115KV	110	-0.16067	SPS	HARRINGTON 230KV	1066	0.00125	-0.16192	59	
SPS	CUNNINGHAM 115KV	71	-0.16067	SPS	NICHOLS 115KV	82	0.0012	-0.16187	59	
SPS	CUNNINGHAM 115KV	110	-0.16067	SPS	NICHOLS 115KV	82	0.0012	-0.16187	59	
SPS	CUNNINGHAM 115KV	71	-0.16067	SPS	STEER WATER 115KV	79.98182	0.00116	-0.16183	59	
SPS	CUNNINGHAM 115KV	110	-0.16067	SPS	STEER WATER 115KV	79.98182	0.00116	-0.16183	59	
SPS	MADOX 115KV	75	-0.16383	SPS	CAPROCK 115KV	79.98182	-0.00285	-0.16098	59	
SPS	MADOX 115KV	75	-0.16383	SPS	JONES 230KV	486	-0.00208	-0.16175	59	
SPS	MADOX 115KV	75	-0.16383	SPS	LP-BRND2 69KV	80	-0.00242	-0.16141	59	
SPS	CUNNINGHAM 115KV	71	-0.16067	SPS	CAPROCK 115KV	79.98182	-0.00285	-0.15782	60	
SPS	CUNNINGHAM 115KV	110	-0.16067	SPS	CAPROCK 115KV	79.98182	-0.00285	-0.15782	60	
SPS	CUNNINGHAM 115KV	71	-0.16067	SPS	JONES 230KV	486	-0.00208	-0.15859	60	
SPS	CUNNINGHAM 115KV	110	-0.16067	SPS	JONES 230KV	486	-0.00208	-0.15859	60	
SPS	CUNNINGHAM 115KV	71	-0.16067	SPS	LP-BRND2 69KV	80	-0.00242	-0.15825	60	
SPS	CUNNINGHAM 115KV	110	-0.16067	SPS	LP-BRND2 69KV	80	-0.00242	-0.15825	60	
SPS	LP-BRND2 69KV	152	-0.00242	SPS	MUSTG5 118.0 230KV	210	0.14753	-0.14995	63	
SPS	MADOX 115KV	75	-0.16383	SPS	SAN JUAN 230KV	119.9727	-0.019	-0.14483	65	
SPS	MOORE COUNTY 115KV	48	0.0013	SPS	MUSTG5 118.0 230KV	210	0.14753	-0.14622	65	
SPS	NICHOLS 115KV	131	0.0012	SPS	MUSTG5 118.0 230KV	210	0.14753	-0.14633	65	
SPS	NICHOLS 230KV	244	0.00124	SPS	MUSTG5 118.0 230KV	210	0.14753	-0.14629	65	
SPS	PLANTX 115KV	89.47412	0.0021	SPS	MUSTG5 118.0 230KV	210	0.14753	-0.14543	65	
SPS	RIVERVIEW 69KV	23	0.00123	SPS	MUSTG5 118.0 230KV	210	0.14753	-0.1463	65	
SPS	TOLK 230KV	52.01129	0.00353	SPS	MUSTG5 118.0 230KV	210	0.14753	-0.144	66	

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

SPS	'CUNNINGHAM 115KV'	71	-0.16067	SPS	'SAN JUAN 230KV'	119.9727	-0.019	-0.14167	67
SPS	'CUNNINGHAM 115KV'	110	-0.16067	SPS	'SAN JUAN 230KV'	119.9727	-0.019	-0.14167	67
SPS	'MADOX 115KV'	75	-0.16383	SPS	'CUNNINGHAM 230KV'	196	-0.07304	-0.09079	104
SPS	'CUNNINGHAM 115KV'	71	-0.16067	SPS	'CUNNINGHAM 230KV'	196	-0.07304	-0.08763	108
SPS	'CUNNINGHAM 115KV'	110	-0.16067	SPS	'CUNNINGHAM 230KV'	196	-0.07304	-0.08763	108
SPS	'CUNNINGHAM 230KV'	110	-0.07304	SPS	'PLANTX 230KV'	189	0.00419	-0.07723	123
SPS	'CUNNINGHAM 230KV'	110	-0.07304	SPS	'TOLK 230KV'	1027.989	0.00353	-0.07657	124
SPS	'CUNNINGHAM 230KV'	110	-0.07304	SPS	'PLANTX 115KV'	163.5259	0.0021	-0.07514	126
SPS	'CUNNINGHAM 230KV'	110	-0.07304	SPS	'WILWIND 230KV'	159.9636	0.00169	-0.07473	127
SPS	'CUNNINGHAM 230KV'	110	-0.07304	SPS	'BLACKHAWK 115KV'	220	0.00124	-0.07428	128
SPS	'CUNNINGHAM 230KV'	110	-0.07304	SPS	'HARRINGTON 230KV'	1066	0.00125	-0.07429	128
SPS	'CUNNINGHAM 230KV'	110	-0.07304	SPS	'NICHOLS 115KV'	82	0.0012	-0.07424	128
SPS	'CUNNINGHAM 230KV'	110	-0.07304	SPS	'STEER WATER 115KV'	79.98182	0.00116	-0.0742	128
SPS	'CUNNINGHAM 230KV'	110	-0.07304	SPS	'JONES 230KV'	486	-0.00208	-0.07096	134
SPS	'CUNNINGHAM 230KV'	110	-0.07304	SPS	'CAPROCK 115KV'	79.98182	-0.00285	-0.07019	135
SPS	'CUNNINGHAM 230KV'	110	-0.07304	SPS	'SAN JUAN 230KV'	119.9727	-0.019	-0.05404	175

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 Displacement
 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							Aggregate Redispatch Amount (MW)
1090487	23.3	23.3							
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
SPS	'MADOX 115KV'	75	-0.16383	SPS	'MUSTG5 118.0 230KV'	360	0.14753	-0.31136	75
SPS	'CUNNINGHAM 115KV'	50.00977	-0.16067	SPS	'MUSTG5 118.0 230KV'	360	0.14753	-0.3082	76
SPS	'MADOX 115KV'	75	-0.16383	SPS	'PLANTX 230KV'	189	0.00419	-0.16802	139
SPS	'MADOX 115KV'	75	-0.16383	SPS	'TOLK 230KV'	1024.722	0.00353	-0.16736	139
SPS	'CUNNINGHAM 115KV'	50.00977	-0.16067	SPS	'PLANTX 230KV'	189	0.00419	-0.16486	141
SPS	'MADOX 115KV'	75	-0.16383	SPS	'BLACKHAWK 115KV'	220	0.00124	-0.16507	141
SPS	'MADOX 115KV'	75	-0.16383	SPS	'HARRINGTON 230KV'	1066	0.00125	-0.16508	141
SPS	'MADOX 115KV'	75	-0.16383	SPS	'NICHOLS 115KV'	147	0.0012	-0.16503	141
SPS	'MADOX 115KV'	75	-0.16383	SPS	'NICHOLS 230KV'	147	0.00124	-0.16507	141
SPS	'MADOX 115KV'	75	-0.16383	SPS	'PLANTX 115KV'	205	0.0021	-0.16593	141
SPS	'MADOX 115KV'	75	-0.16383	SPS	'STEER WATER 115KV'	79.98182	0.00116	-0.16499	141
SPS	'MADOX 115KV'	75	-0.16383	SPS	'WILWIND 230KV'	159.9636	0.00169	-0.16552	141
SPS	'CUNNINGHAM 115KV'	50.00977	-0.16067	SPS	'TOLK 230KV'	1024.722	0.00353	-0.1642	142
SPS	'CUNNINGHAM 115KV'	50.00977	-0.16067	SPS	'PLANTX 115KV'	205	0.0021	-0.16277	143
SPS	'CUNNINGHAM 115KV'	50.00977	-0.16067	SPS	'BLACKHAWK 115KV'	220	0.00124	-0.16191	144
SPS	'CUNNINGHAM 115KV'	50.00977	-0.16067	SPS	'HARRINGTON 230KV'	1066	0.00125	-0.16192	144
SPS	'CUNNINGHAM 115KV'	50.00977	-0.16067	SPS	'NICHOLS 115KV'	147	0.0012	-0.16187	144
SPS	'CUNNINGHAM 115KV'	50.00977	-0.16067	SPS	'NICHOLS 230KV'	147	0.00124	-0.16191	144
SPS	'CUNNINGHAM 115KV'	50.00977	-0.16067	SPS	'STEER WATER 115KV'	79.98182	0.00116	-0.16183	144
SPS	'CUNNINGHAM 115KV'	50.00977	-0.16067	SPS	'WILWIND 230KV'	159.9636	0.00169	-0.16236	144
SPS	'MADOX 115KV'	75	-0.16383	SPS	'JONES 230KV'	486	-0.00208	-0.16175	144
SPS	'MADOX 115KV'	75	-0.16383	SPS	'CAPROCK 115KV'	79.98182	-0.00285	-0.16098	145
SPS	'CUNNINGHAM 115KV'	50.00977	-0.16067	SPS	'JONES 230KV'	486	-0.00208	-0.15859	147
SPS	'CUNNINGHAM 115KV'	50.00977	-0.16067	SPS	'CAPROCK 115KV'	79.98182	-0.00285	-0.15782	148
SPS	'MADOX 115KV'	75	-0.16383	SPS	'SAN JUAN 230KV'	119.9727	-0.019	-0.14483	161
SPS	'TOLK 230KV'	55.27795	0.00353	SPS	'MUSTG5 118.0 230KV'	360	0.14753	-0.144	162

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: 52310522521522095218512407SP
 Date Redispatch Needed: 6/1/07 - 10/1/07
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount							Aggregate Redispatch Amount (MW)
1090487	3.3	3.3							
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
SPS	'CARLSBAD 69KV'	18	-0.26531	SPS	'MUSTG5 118.0 230KV'	360	0.0485	-0.31381	10
SPS	'CARLSBAD 69KV'	18	-0.26531	SPS	'BLACKHAWK 115KV'	220	-0.00367	-0.26164	12
SPS	'CARLSBAD 69KV'	18	-0.26531	SPS	'CZ 69KV'	39	-0.00335	-0.26196	12
SPS	'CARLSBAD 69KV'	18	-0.26531	SPS	'HARRINGTON 230KV'	1066	-0.0037	-0.26161	12
SPS	'CARLSBAD 69KV'	18	-0.26531	SPS	'HUBRCO2 69KV'	11	-0.00367	-0.26164	12
SPS	'CARLSBAD 69KV'	18	-0.26531	SPS	'JONES 230KV'	486	0.01395	-0.27926	12
SPS	'CARLSBAD 69KV'	18	-0.26531	SPS	'LP-BRND2 69KV'	80	0.01302	-0.27833	12
SPS	'CARLSBAD 69KV'	18	-0.26531	SPS	'MOORE COUNTY 115KV'	48	-0.00385	-0.26146	12
SPS	'CARLSBAD 69KV'	18	-0.26531	SPS	'NICHOLS 115KV'	147	-0.00362	-0.26169	12
SPS	'CARLSBAD 69KV'	18	-0.26531	SPS	'NICHOLS 230KV'	147	-0.00366	-0.26165	12
SPS	'CARLSBAD 69KV'	18	-0.26531	SPS	'SIDRCH 69KV'	20	-0.00367	-0.26164	12
SPS	'CARLSBAD 69KV'	18	-0.26531	SPS	'STEER WATER 115KV'	8	-0.00349	-0.26182	12
SPS	'CARLSBAD 69KV'	18	-0.26531	SPS	'PLANTX 115KV'	205	-0.00587	-0.25944	13
SPS	'CARLSBAD 69KV'	18	-0.26531	SPS	'PLANTX 230KV'	189	-0.00999	-0.25622	13
SPS	'CARLSBAD 69KV'	18	-0.26531	SPS	'TOLK 230KV'	1018.154	-0.01292	-0.25239	13
SPS	'CARLSBAD 69KV'	18	-0.26531	SPS	'WILWIND 230KV'	16	-0.00514	-0.26017	13
SPS	'CARLSBAD 69KV'	18	-0.26531	SPS	'CAPROCK 115KV'	8	-0.02602	-0.23929	14
SPS	'CARLSBAD 69KV'	18	-0.26531	SPS	'SAN JUAN 230KV'	12	-0.06421	-0.2011	16
SPS	'TUCUMCARI 115KV'	15	-0.02602	SPS	'MUSTG5 118.0 230KV'	360	0.0485	-0.07452	44
SPS	'TOLK 230KV'	61.84583	-0.01292	SPS	'MUSTG5 118.0 230KV'	360	0.0485	-0.06142	53
SPS	'PLANTX 115KV'	48	-0.00587	SPS	'MUSTG5 118.0 230KV'	360	0.0485	-0.05437	60
SPS	'RIVERVIEW 69KV'	23	-0.00367	SPS	'MUSTG5 118.0 230KV'	360	0.0485	-0.05217	63
SPS	'LP-BRND2 69KV'	152	0.01302	SPS	'MUSTG5 118.0 230KV'	360	0.0485	-0.03548	92

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: 57368573811568725687312206WP
 Date Redispatch Needed: 12/1/06 - 4/1/07
 Season Flowgate Identified: 2006 Winter Peak

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

Reservation	Relief Amount	Aggregate Relief Amount										
1086655	1.5	2.6										
1090964	0.8	2.6										
1090965	0.3	2.6										
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)			
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.29594	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.01746	-0.3134	8			
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.29594	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.02327	-0.31921	8			
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.29594	WERE	LAWRENCE ENERGY CENTER 230KV'	130.0238	0.00966	-0.3056	8			
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.29594	WERE	CHANUTE 69KV'	35.344	0.00148	-0.29742	9			
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.29594	WERE	CITY OF AUGUSTA 69KV'	17.25201	0.00019	-0.29613	9			
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.29594	WERE	CITY OF BURLINGTON 69KV'	4.8	0.00281	-0.29875	9			
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.29594	WERE	CITY OF IOLA 69KV'	13.978	0.00175	-0.29769	9			
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.29594	WERE	CITY OF MULVANE 69KV'	3.694	-0.00102	-0.29492	9			
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.29594	WERE	CITY OF WELLINGTON 69KV'	24	-0.00179	-0.29415	9			
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.29594	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.00281	-0.29875	9			
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.29594	WERE	EVANS ENERGY CENTER 138KV'	25.88745	0.00002	-0.29596	9			
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.29594	WERE	WACO 138KV'	17.953	-0.003	-0.29294	9			
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.29594	WERE	COLBY 115KV'	6.280901	-0.03582	-0.26012	10			
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.23852	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.01746	-0.25598	10			
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.23852	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.02327	-0.26179	10			
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.23852	WERE	LAWRENCE ENERGY CENTER 230KV'	130.0238	0.00966	-0.24818	10			
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.23841	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.01746	-0.25587	10			
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.23841	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.02327	-0.26168	10			
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.23841	WERE	LAWRENCE ENERGY CENTER 230KV'	130.0238	0.00966	-0.24807	10			
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.23852	WERE	CHANUTE 69KV'	35.344	0.00148	-0.24	11			
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.23852	WERE	CITY OF AUGUSTA 69KV'	17.25201	0.00019	-0.23871	11			
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.23852	WERE	CITY OF BURLINGTON 69KV'	4.8	0.00281	-0.24133	11			
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.23852	WERE	CITY OF IOLA 69KV'	13.978	0.00175	-0.24027	11			
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.23852	WERE	CITY OF MULVANE 69KV'	3.694	-0.00102	-0.2375	11			
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.23852	WERE	CITY OF WELLINGTON 69KV'	24	-0.00179	-0.23673	11			
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.23852	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.00281	-0.24133	11			
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.23852	WERE	EVANS ENERGY CENTER 138KV'	25.88745	0.00002	-0.23854	11			
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.23852	WERE	WACO 138KV'	17.953	-0.003	-0.23552	11			
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.23841	WERE	CHANUTE 69KV'	35.344	0.00148	-0.23989	11			
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.23841	WERE	CITY OF AUGUSTA 69KV'	17.25201	0.00019	-0.2386	11			
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.23841	WERE	CITY OF BURLINGTON 69KV'	4.8	0.00281	-0.24122	11			
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.23841	WERE	CITY OF IOLA 69KV'	13.978	0.00175	-0.24016	11			
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.23841	WERE	CITY OF MULVANE 69KV'	3.694	-0.00102	-0.23739	11			
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.23841	WERE	CITY OF WELLINGTON 69KV'	24	-0.00179	-0.23662	11			
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.23841	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.00281	-0.24122	11			
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.23841	WERE	EVANS ENERGY CENTER 138KV'	25.88745	0.00002	-0.23843	11			
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.23841	WERE	WACO 138KV'	17.953	-0.003	-0.23541	11			
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.23852	WERE	COLBY 115KV'	6.280901	-0.03582	-0.2027	13			
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.23841	WERE	COLBY 115KV'	6.280901	-0.03582	-0.20259	13			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.02327	-0.15829	16			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.02327	-0.15829	16			
WERE	ST JOHN 115KV'	7.5	-0.13502	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.02327	-0.15829	16			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.01746	-0.15248	17			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.01746	-0.15248	17			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.01746	-0.15248	17			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.01746	-0.15248	17			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	LAWRENCE ENERGY CENTER 230KV'	130.0238	0.00966	-0.14468	18			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	LAWRENCE ENERGY CENTER 230KV'	130.0238	0.00966	-0.14468	18			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	LAWRENCE ENERGY CENTER 230KV'	130.0238	0.00966	-0.14468	18			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	CHANUTE 69KV'	35.344	0.00148	-0.1365	19			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	CITY OF AUGUSTA 69KV'	17.25201	0.00019	-0.13521	19			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	CITY OF IOLA 69KV'	13.978	0.00175	-0.13677	19			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	CITY OF WELLINGTON 69KV'	24	-0.00179	-0.13323	19			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.00281	-0.13783	19			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	EVANS ENERGY CENTER 138KV'	25.88745	0.00002	-0.13504	19			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	CHANUTE 69KV'	35.344	0.00148	-0.1365	19			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	CITY OF AUGUSTA 69KV'	17.25201	0.00019	-0.13521	19			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	CITY OF IOLA 69KV'	13.978	0.00175	-0.13677	19			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	CITY OF WELLINGTON 69KV'	24	-0.00179	-0.13323	19			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.00281	-0.13783	19			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	EVANS ENERGY CENTER 138KV'	25.88745	0.00002	-0.13504	19			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	CHANUTE 69KV'	35.344	0.00148	-0.1365	19			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	CITY OF AUGUSTA 69KV'	17.25201	0.00019	-0.13521	19			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	CITY OF IOLA 69KV'	13.978	0.00175	-0.13677	19			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	CITY OF WELLINGTON 69KV'	24	-0.00179	-0.13323	19			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.00281	-0.13783	19			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	EVANS ENERGY CENTER 138KV'	25.88745	0.00002	-0.13504	19			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.01746	-0.12489	21			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	LAWRENCE ENERGY CENTER 230KV'	130.0238	0.00966	-0.11709	22			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.00281	-0.11024	23			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	CHANUTE 69KV'	35.344	0.00148	-0.10891	24			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	CITY OF AUGUSTA 69KV'	17.25201	0.00019	-0.10762	24			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	CITY OF IOLA 69KV'	13.978	0.00175	-0.10918	24			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	CITY OF WELLINGTON 69KV'	24	-0.00179	-0.10564	24			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	EVANS ENERGY CENTER 138KV'	25.88745	0.00002	-0.10745	24			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	WACO 138KV'	17.953	-0.003	-0.10443	25			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	WACO 138KV'	17.953	-0.003	-0.10443	25			
WERE	PAWNEE 115KV'	999	-0.13502	WERE	GRAY COUNTY WIND FARM 115KV'	73	-0.07564	-0.04477	58			

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: 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	3.0	5.0								
1090817	0.7	5.0								
1090964	1.0	5.0								
1090965	0.3	5.0								
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)	
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.29562	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.01718	-0.3128	16	
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.29562	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.02299	-0.31861	16	
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.29562	WERE	LAWRENCE ENERGY CENTER 230KV'	230.2191	0.00919	-0.30481	16	
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.29562	WERE	CHANUTE 69KV'	46.617	0.00149	-0.29711	17	
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.29562	WERE	CITY OF ERIE 69KV'	23.258	0.00149	-0.29711	17	

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

WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.29562	WERE	CITY OF IOLA 69KV	19.865	0.00174	-0.29736	17
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.29562	WERE	CITY OF MULVANE 69KV	6.189	-0.00086	-0.29476	17
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.29562	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.96	0.00282	-0.29844	17
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.29562	WERE	EVANS ENERGY CENTER 138KV	305	0.00013	-0.29575	17
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.29562	WERE	GILL ENERGY CENTER 138KV	77	-0.00316	-0.29246	17
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.29562	WERE	LAWRENCE ENERGY CENTER 115KV	60	0.00088	-0.30442	17
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.29562	WERE	TECUMSEH ENERGY CENTER 115KV	108	0.00844	-0.30406	17
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.29562	WERE	WACO 138KV	17.947	-0.00394	-0.29228	17
WERE	HUTCHINSON ENERGY CENTER 115KV	303	-0.23794	WERE	JEFFREY ENERGY CENTER 345KV	940	0.02299	-0.26093	19
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.23783	WERE	JEFFREY ENERGY CENTER 345KV	940	0.02299	-0.26082	19
WERE	HUTCHINSON ENERGY CENTER 115KV	303	-0.23794	WERE	JEFFREY ENERGY CENTER 230KV	470	0.01718	-0.25512	20
WERE	HUTCHINSON ENERGY CENTER 115KV	303	-0.23794	WERE	LAWRENCE ENERGY CENTER 115KV	60	0.00088	-0.24674	20
WERE	HUTCHINSON ENERGY CENTER 115KV	303	-0.23794	WERE	LAWRENCE ENERGY CENTER 230KV	230.2191	0.00919	-0.24713	20
WERE	HUTCHINSON ENERGY CENTER 115KV	303	-0.23794	WERE	TECUMSEH ENERGY CENTER 115KV	108	0.00844	-0.24638	20
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.23783	WERE	JEFFREY ENERGY CENTER 230KV	470	0.01718	-0.25501	20
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.23783	WERE	LAWRENCE ENERGY CENTER 115KV	60	0.00088	-0.24663	20
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.23783	WERE	LAWRENCE ENERGY CENTER 230KV	230.2191	0.00919	-0.24702	20
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.23783	WERE	TECUMSEH ENERGY CENTER 115KV	108	0.00844	-0.24627	20
WERE	HUTCHINSON ENERGY CENTER 115KV	303	-0.23794	WERE	CHANUTE 69KV	46.617	0.00149	-0.23943	21
WERE	HUTCHINSON ENERGY CENTER 115KV	303	-0.23794	WERE	CITY OF ERIE 69KV	23.258	0.00149	-0.23943	21
WERE	HUTCHINSON ENERGY CENTER 115KV	303	-0.23794	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.96	0.00282	-0.24076	21
WERE	HUTCHINSON ENERGY CENTER 115KV	303	-0.23794	WERE	EVANS ENERGY CENTER 138KV	305	0.00013	-0.23807	21
WERE	HUTCHINSON ENERGY CENTER 115KV	303	-0.23794	WERE	GILL ENERGY CENTER 138KV	77	-0.00316	-0.23478	21
WERE	HUTCHINSON ENERGY CENTER 115KV	303	-0.23794	WERE	WACO 138KV	17.947	-0.00282	-0.23512	21
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.23783	WERE	CHANUTE 69KV	46.617	0.00149	-0.23932	21
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.23783	WERE	CITY OF ERIE 69KV	23.258	0.00149	-0.23932	21
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.23783	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.96	0.00282	-0.24065	21
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.23783	WERE	EVANS ENERGY CENTER 138KV	305	0.00013	-0.23796	21
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.23783	WERE	GILL ENERGY CENTER 138KV	77	-0.00316	-0.23467	21
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.23783	WERE	WACO 138KV	17.947	-0.00282	-0.23501	21
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.29562	WERE	CLAY CENTER JUNCTION 115KV	11.825	-0.09835	-0.19727	25
WERE	PAWNEE 115KV	999	-0.13182	WERE	JEFFREY ENERGY CENTER 345KV	940	0.02299	-0.15481	32
WERE	RICE 115KV	999	-0.13182	WERE	JEFFREY ENERGY CENTER 345KV	940	0.02299	-0.15481	32
WERE	PAWNEE 115KV	999	-0.13182	WERE	JEFFREY ENERGY CENTER 230KV	470	0.01718	-0.149	34
WERE	RICE 115KV	999	-0.13182	WERE	JEFFREY ENERGY CENTER 230KV	470	0.01718	-0.149	34
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.29562	WERE	ABILENE ENERGY CENTER 115KV	18.23438	-0.15727	-0.13835	36
WERE	PAWNEE 115KV	999	-0.13182	WERE	LAWRENCE ENERGY CENTER 115KV	60	0.00088	-0.14062	36
WERE	PAWNEE 115KV	999	-0.13182	WERE	LAWRENCE ENERGY CENTER 230KV	230.2191	0.00919	-0.14101	36
WERE	PAWNEE 115KV	999	-0.13182	WERE	TECUMSEH ENERGY CENTER 115KV	108	0.00844	-0.14026	36
WERE	RICE 115KV	999	-0.13182	WERE	LAWRENCE ENERGY CENTER 115KV	60	0.00088	-0.14062	36
WERE	RICE 115KV	999	-0.13182	WERE	LAWRENCE ENERGY CENTER 230KV	230.2191	0.00919	-0.14101	36
WERE	RICE 115KV	999	-0.13182	WERE	TECUMSEH ENERGY CENTER 115KV	108	0.00844	-0.14026	36
WERE	PAWNEE 115KV	999	-0.13182	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.96	0.00282	-0.13464	37
WERE	RICE 115KV	999	-0.13182	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.96	0.00282	-0.13464	37
WERE	PAWNEE 115KV	999	-0.13182	WERE	CITY OF ERIE 69KV	23.258	0.00149	-0.13331	38
WERE	RICE 115KV	999	-0.13182	WERE	EVANS ENERGY CENTER 138KV	305	0.00013	-0.13195	38
WERE	PAWNEE 115KV	999	-0.13182	WERE	CITY OF ERIE 69KV	23.258	0.00149	-0.13331	38
WERE	RICE 115KV	999	-0.13182	WERE	EVANS ENERGY CENTER 138KV	305	0.00013	-0.13195	38
WERE	PAWNEE 115KV	999	-0.13182	WERE	GILL ENERGY CENTER 138KV	77	-0.00316	-0.12866	39
WERE	PAWNEE 115KV	999	-0.13182	WERE	WACO 138KV	17.947	-0.00282	-0.129	39
WERE	RICE 115KV	999	-0.13182	WERE	GILL ENERGY CENTER 138KV	77	-0.00316	-0.12866	39
WERE	RICE 115KV	999	-0.13182	WERE	WACO 138KV	17.947	-0.00282	-0.129	39
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.29562	WERE	HUTCHINSON ENERGY CENTER 115KV	80.00001	-0.23794	-0.05768	87

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	Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
1090964	6.9	8.9	WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.52229	WERE	JEFFREY ENERGY CENTER 230KV	470	0.03388	-0.55617	16
1090965	2.0	8.9	WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.52229	WERE	JEFFREY ENERGY CENTER 345KV	940	0.0352	-0.55749	16
			WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.52229	WERE	TECUMSEH ENERGY CENTER 230KV	130.0238	0.02211	-0.5444	16
			WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.52229	WERE	CHANUTE 69KV	35.344	0.00308	-0.52537	17
			WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.52229	WERE	CITY OF AUGUSTA 69KV	17.25201	0.00096	-0.52325	17
			WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.52229	WERE	CITY OF IOLA 69KV	13.978	0.00357	-0.52586	17
			WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.52229	WERE	CITY OF WELLINGTON 69KV	24	-0.00277	-0.51952	17
			WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.52229	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.97	0.00573	-0.52802	17
			WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.52229	WERE	EVANS ENERGY CENTER 138KV	25.88745	0.00069	-0.52298	17
			WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.52229	WERE	WACO 138KV	17.953	-0.00487	-0.51742	17
			WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.42301	WERE	JEFFREY ENERGY CENTER 230KV	470	0.03388	-0.45689	19
			WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.42301	WERE	JEFFREY ENERGY CENTER 345KV	940	0.0352	-0.45821	19
			WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.42282	WERE	JEFFREY ENERGY CENTER 230KV	470	0.03388	-0.4567	19
			WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.42282	WERE	JEFFREY ENERGY CENTER 345KV	940	0.0352	-0.45802	19
			WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.42301	WERE	LAWRENCE ENERGY CENTER 230KV	130.0238	0.02211	-0.44512	20
			WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.42282	WERE	LAWRENCE ENERGY CENTER 230KV	130.0238	0.02211	-0.44493	20
			WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.42301	WERE	CHANUTE 69KV	35.344	0.00308	-0.42609	21
			WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.42301	WERE	CITY OF AUGUSTA 69KV	17.25201	0.00096	-0.42397	21
			WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.42301	WERE	CITY OF IOLA 69KV	13.978	0.00357	-0.42658	21
			WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.42301	WERE	CITY OF WELLINGTON 69KV	24	-0.00277	-0.42824	21
			WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.42301	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.97	0.00573	-0.42874	21
			WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.42301	WERE	EVANS ENERGY CENTER 138KV	25.88745	0.00069	-0.4237	21
			WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.42301	WERE	WACO 138KV	17.953	-0.00487	-0.41814	21
			WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.42282	WERE	CHANUTE 69KV	35.344	0.00308	-0.4259	21
			WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.42282	WERE	CITY OF AUGUSTA 69KV	17.25201	0.00096	-0.42378	21
			WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.42282	WERE	CITY OF IOLA 69KV	13.978	0.00357	-0.42639	21
			WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.42282	WERE	CITY OF WELLINGTON 69KV	24	-0.00277	-0.42005	21
			WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.42282	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.97	0.00573	-0.42855	21
			WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.42282	WERE	EVANS ENERGY CENTER 138KV	25.88745	0.00069	-0.42351	21
			WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.42282	WERE	WACO 138KV	17.953	-0.00487	-0.41795	21
			WERE	PAWNEE 115KV	999	-0.24493	WERE	JEFFREY ENERGY CENTER 230KV	470	0.03388	-0.27881	32
			WERE	PAWNEE 115KV	999	-0.24493	WERE	JEFFREY ENERGY CENTER 345KV	940	0.0352	-0.28013	32
			WERE	RICE 115KV	999	-0.24493	WERE	JEFFREY ENERGY CENTER 230KV	470	0.03388	-0.27881	32
			WERE	RICE 115KV	999	-0.24493	WERE	JEFFREY ENERGY CENTER 345KV	940	0.0352	-0.28013	32
			WERE	PAWNEE 115KV	999	-0.24493	WERE	LAWRENCE ENERGY CENTER 230KV	130.0238	0.02211	-0.26704	33
			WERE	RICE 115KV	999	-0.24493	WERE	LAWRENCE ENERGY CENTER 230KV	130.0238	0.02211	-0.26704	33
			WERE	PAWNEE 115KV	999	-0.24493	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.97	0.00573	-0.25066	35
			WERE	RICE 115KV	999	-0.24493	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.97	0.00573	-0.25066	35
			WERE	PAWNEE 115KV	999	-0.24493	WERE	CITY OF AUGUSTA 69KV	17.25201	0.00096	-0.24589	36

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

WERE	'PAWNEE 115KV'	999	-0.24493	WERE	'CITY OF WELLINGTON 69KV'	24	-0.00277	-0.24216	37
WERE	'PAWNEE 115KV'	999	-0.24493	WERE	'WACO 138KV'	17.953	-0.00487	-0.24006	37
WERE	'RICE 115KV'	999	-0.24493	WERE	'CITY OF WELLINGTON 69KV'	24	-0.00277	-0.24216	37
WERE	'RICE 115KV'	999	-0.24493	WERE	'WACO 138KV'	17.953	-0.00487	-0.24006	37
WEPL	'A. M. MULLERGEN GENERATOR 115KV'	63	-0.22151	WEPL	'GRAY COUNTY WIND FARM 115KV'	73	-0.14083	-0.08068	110
WERE	'KNOLL 3 115 115KV'	75	-0.04003	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.0352	-0.07523	118
WERE	'KNOLL 3 115 115KV'	75	-0.04003	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03388	-0.07391	120
WERE	'KNOLL 3 115 115KV'	75	-0.04003	WERE	'LAWRENCE ENERGY CENTER 230KV'	130.0238	0.02211	-0.06214	143
WERE	'GILL ENERGY CENTER 138KV'	218	-0.0055	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.0352	-0.0407	218
WERE	'GILL ENERGY CENTER 138KV'	218	-0.0055	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03388	-0.03938	226
WERE	'GILL ENERGY CENTER 69KV'	118	-0.00393	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.0352	-0.03913	227
WERE	'GILL ENERGY CENTER 69KV'	118	-0.00393	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03388	-0.03781	235
WERE	'EVANS ENERGY CENTER 138KV'	767.1125	0.00069	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.0352	-0.03451	257
WERE	'EVANS ENERGY CENTER 138KV'	767.1125	0.00069	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03388	-0.03319	268
WERE	'LATHAM1234.0 345KV'	150	0.00276	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.0352	-0.03244	274
WERE	'LATHAM1234.0 345KV'	150	0.00276	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03388	-0.03112	286

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: 57372573741568725687312207FA
 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
1090817	1.9	5.3
1090964	2.6	5.3
1090965	0.8	5.3

Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50621	WERE	'CHANUTE 69KV'	56.296	0.00259	-0.5088	10
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50621	WERE	'CITY OF AUGUSTA 69KV'	19.63601	0.00123	-0.50744	10
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50621	WERE	'CITY OF WELLINGTON 69KV'	4.8	0.00472	-0.51093	10
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50621	WERE	'CITY OF IOLA 69KV'	24.256	0.00297	-0.50918	10
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50621	WERE	'CITY OF MULVANE 69KV'	4.891	-0.01017	-0.50514	10
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50621	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00235	-0.50386	10
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50621	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.00472	-0.51093	10
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50621	WERE	'EVANS ENERGY CENTER 138KV'	187.8892	0.0005	-0.50671	10
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50621	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02831	-0.53452	10
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50621	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02952	-0.53573	10
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50621	WERE	'LAWRENCE ENERGY CENTER 230KV'	230.3248	0.01814	-0.52435	10
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50621	WERE	'TUCUMSEH ENERGY CENTER 115KV'	108	0.01953	-0.52574	10
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50621	WERE	'WACO 138KV'	17.946	-0.00425	-0.50196	11
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50621	WERE	'COLBY 115KV'	6.36216	-0.07624	-0.42997	12
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.40086	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02831	-0.42917	12
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.40086	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02952	-0.43038	12
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40067	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02831	-0.42898	12
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40067	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02952	-0.43019	12
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.40086	WERE	'CHANUTE 69KV'	56.296	0.00259	-0.40345	13
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.40086	WERE	'CITY OF AUGUSTA 69KV'	19.63601	0.00123	-0.40209	13
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.40086	WERE	'CITY OF BURLINGTON 69KV'	4.8	0.00472	-0.40558	13
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.40086	WERE	'CITY OF IOLA 69KV'	24.256	0.00297	-0.40383	13
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.40086	WERE	'CITY OF MULVANE 69KV'	4.891	-0.01017	-0.39979	13
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.40086	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00235	-0.39851	13
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.40086	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.00472	-0.40558	13
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.40086	WERE	'EVANS ENERGY CENTER 138KV'	187.8892	0.0005	-0.40136	13
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.40086	WERE	'LAWRENCE ENERGY CENTER 230KV'	230.3248	0.01814	-0.419	13
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.40086	WERE	'TUCUMSEH ENERGY CENTER 115KV'	108	0.01953	-0.42039	13
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.40086	WERE	'WACO 138KV'	17.946	-0.00425	-0.39661	13
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40067	WERE	'CHANUTE 69KV'	56.296	0.00259	-0.40326	13
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40067	WERE	'CITY OF AUGUSTA 69KV'	19.63601	0.00123	-0.4019	13
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40067	WERE	'CITY OF BURLINGTON 69KV'	4.8	0.00472	-0.40539	13
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40067	WERE	'CITY OF IOLA 69KV'	24.256	0.00297	-0.40364	13
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40067	WERE	'CITY OF MULVANE 69KV'	4.891	-0.01017	-0.3996	13
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40067	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00235	-0.39832	13
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40067	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.00472	-0.40539	13
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40067	WERE	'EVANS ENERGY CENTER 138KV'	187.8892	0.0005	-0.40117	13
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40067	WERE	'LAWRENCE ENERGY CENTER 230KV'	230.3248	0.01814	-0.41881	13
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40067	WERE	'TUCUMSEH ENERGY CENTER 115KV'	108	0.01953	-0.4202	13
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40067	WERE	'WACO 138KV'	17.946	-0.00425	-0.39642	13
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.40086	WERE	'COLBY 115KV'	6.36216	-0.07624	-0.32462	16
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.40067	WERE	'COLBY 115KV'	6.36216	-0.07624	-0.32443	16
WERE	'PAWNEE 115KV'	999	-0.21561	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02831	-0.24392	22
WERE	'PAWNEE 115KV'	999	-0.21561	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02952	-0.24513	22
WERE	'PAWNEE 115KV'	999	-0.21561	WERE	'TUCUMSEH ENERGY CENTER 115KV'	108	0.01953	-0.23514	22
WERE	'RICE 115KV'	999	-0.21561	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02831	-0.24392	22
WERE	'RICE 115KV'	999	-0.21561	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02952	-0.24513	22
WERE	'RICE 115KV'	999	-0.21561	WERE	'TUCUMSEH ENERGY CENTER 115KV'	108	0.01953	-0.23514	22
WERE	'ST JOHN 115KV'	7.5	-0.21561	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02831	-0.24392	22
WERE	'ST JOHN 115KV'	7.5	-0.21561	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02952	-0.24513	22
WERE	'ST JOHN 115KV'	7.5	-0.21561	WERE	'TUCUMSEH ENERGY CENTER 115KV'	108	0.01953	-0.23514	22
WERE	'PAWNEE 115KV'	999	-0.21561	WERE	'LAWRENCE ENERGY CENTER 230KV'	230.3248	0.01814	-0.23375	23
WERE	'RICE 115KV'	999	-0.21561	WERE	'LAWRENCE ENERGY CENTER 230KV'	230.3248	0.01814	-0.23375	23
WERE	'PAWNEE 115KV'	999	-0.21561	WERE	'CHANUTE 69KV'	56.296	0.00259	-0.2182	24
WERE	'PAWNEE 115KV'	999	-0.21561	WERE	'CITY OF AUGUSTA 69KV'	19.63601	0.00123	-0.21684	24
WERE	'PAWNEE 115KV'	999	-0.21561	WERE	'CITY OF IOLA 69KV'	24.256	0.00297	-0.21858	24
WERE	'PAWNEE 115KV'	999	-0.21561	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.00472	-0.22033	24
WERE	'PAWNEE 115KV'	999	-0.21561	WERE	'EVANS ENERGY CENTER 138KV'	187.8892	0.0005	-0.21611	24
WERE	'RICE 115KV'	999	-0.21561	WERE	'CHANUTE 69KV'	56.296	0.00259	-0.2182	24
WERE	'RICE 115KV'	999	-0.21561	WERE	'CITY OF AUGUSTA 69KV'	19.63601	0.00123	-0.21684	24
WERE	'RICE 115KV'	999	-0.21561	WERE	'CITY OF IOLA 69KV'	24.256	0.00297	-0.21858	24
WERE	'RICE 115KV'	999	-0.21561	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.00472	-0.22033	24
WERE	'RICE 115KV'	999	-0.21561	WERE	'EVANS ENERGY CENTER 138KV'	187.8892	0.0005	-0.21611	24
WERE	'GREAT BEND PLANT 69KV'	10	-0.17964	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02831	-0.20795	25
WERE	'GREAT BEND PLANT 69KV'	10	-0.17964	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02952	-0.20916	25
WERE	'PAWNEE 115KV'	999	-0.21561	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00235	-0.21326	25
WERE	'PAWNEE 115KV'	999	-0.21561	WERE	'WACO 138KV'	17.946	-0.00425	-0.21136	25
WERE	'RICE 115KV'	999	-0.21561	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00235	-0.21326	25
WERE	'RICE 115KV'	999	-0.21561	WERE	'WACO 138KV'	17.946	-0.00425	-0.21136	25
WERE	'GREAT BEND PLANT 69KV'	10	-0.17964	WERE	'TUCUMSEH ENERGY CENTER 115KV'	108	0.01953	-0.19917	26
WERE	'GREAT BEND PLANT 69KV'	10	-0.17964	WERE	'LAWRENCE ENERGY CENTER 230KV'	230.3248	0.01814	-0.19778	27
WERE	'GREAT BEND PLANT 69KV'	10	-0.17964	WERE	'CHANUTE 69KV'	56.296	0.00259	-0.18223	28
WERE	'GREAT BEND PLANT 69KV'	10	-0.17964	WERE	'CITY OF AUGUSTA 69KV'	19.63601	0.00123	-0.18067	28
WERE	'GREAT BEND PLANT 69KV'	10	-0.17964	WERE	'CITY OF IOLA 69KV'	24.256	0.00297	-0.18261	29
WERE	'GREAT BEND PLANT 69KV'	10	-0.17964	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.00472	-0.18436	29
WERE	'GREAT BEND PLANT 69KV'	10	-0.17964	WERE	'EVANS ENERGY CENTER 138KV'	187.8892	0.0005	-0.18014	29
WERE	'GREAT BEND PLANT 69KV'	10	-0.17964	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00235	-0.17729	30
WERE	'GREAT BEND PLANT 69KV'	10	-0.17964	WERE	'WACO 138KV'	17.946	-0.00425	-0.17539	30

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

WERE	KNOLL 3 115 115KV'	75	-0.09268	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.02952	-0.1222	43
WERE	KNOLL 3 115 115KV'	75	-0.09268	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.02831	-0.12099	44
WERE	KNOLL 3 115 115KV'	75	-0.09268	WERE	TECUMSEH ENERGY CENTER 115KV'	108	0.01953	-0.11221	47
WERE	KNOLL 3 115 115KV'	75	-0.09268	WERE	LAWRENCE ENERGY CENTER 230KV'	230.3248	0.01814	-0.11082	48
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.50621	WERE	HUTCHINSON ENERGY CENTER 115KV'	40	-0.40086	-0.10535	50
WERE	KNOLL 3 115 115KV'	75	-0.09268	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.00472	-0.0974	54
WERE	KNOLL 3 115 115KV'	75	-0.09268	WERE	CITY OF AUGUSTA 69KV'	19.63601	0.00123	-0.09391	56
WERE	KNOLL 3 115 115KV'	75	-0.09268	WERE	EVANS ENERGY CENTER 138KV'	187.8892	0.00035	-0.09318	57
WEPL	A. M. MULLERGEREN GENERATOR 115KV'	60	-0.17177	WEPL	GRAY COUNTY WIND FARM 115KV'	60	-0.11581	-0.08156	86
WERE	GILL ENERGY CENTER 138KV'	218	-0.00479	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.02952	-0.03431	154
WERE	GILL ENERGY CENTER 138KV'	218	-0.00479	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.02831	-0.0331	159
WERE	GILL ENERGY CENTER 69KV'	118	-0.00342	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.02952	-0.03294	160
WERE	GILL ENERGY CENTER 69KV'	118	-0.00342	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.02831	-0.03173	166

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: 57372573741568725687312207SH
 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	Aggregate Redispatch Amount (MW)
1090817	2.9	8.1	WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.52215	WERE	ABILENE ENERGY CENTER 115KV'	18.23438	0.12191	-0.64406	13
1090964	4.0	8.1	WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.52215	WERE	CLAY CENTER JUNCTION 115KV'	11.825	0.09097	-0.61312	13
1090965	1.2	8.1	WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.52215	WERE	CHANUTE 69KV'	46.617	0.0031	-0.52525	15
			WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.52215	WERE	CITY OF ERIE 69KV'	23.258	0.0031	-0.52525	15
			WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.52215	WERE	CITY OF IOLA 69KV'	19.865	0.00354	-0.52569	15
			WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.52215	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.00569	-0.52784	15
			WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.52215	WERE	EVANS ENERGY CENTER 138KV'	305	0.00086	-0.52301	15
			WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.52215	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.033	-0.55515	15
			WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.52215	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.03435	-0.5595	15
			WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.52215	WERE	LAWRENCE ENERGY CENTER 115KV'	60	0.02019	-0.54234	15
			WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.52215	WERE	LAWRENCE ENERGY CENTER 230KV'	230.2191	0.02119	-0.54334	15
			WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.52215	WERE	TECUMSEH ENERGY CENTER 115KV'	108	0.0228	-0.54495	15
			WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.42248	WERE	ABILENE ENERGY CENTER 115KV'	18.23438	0.12191	-0.54439	15
			WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.42229	WERE	ABILENE ENERGY CENTER 115KV'	18.23438	0.12191	-0.5442	15
			WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.52215	WERE	CITY OF MULLVANE 69KV'	6.189	-0.00096	-0.52119	16
			WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.52215	WERE	CITY OF WELLINGTON 69KV'	31.07001	-0.00251	-0.51964	16
			WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.52215	WERE	GILL ENERGY CENTER 138KV'	77	-0.00519	-0.51696	16
			WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.52215	WERE	WACO 138KV'	17.947	-0.00458	-0.51757	16
			WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.42248	WERE	CLAY CENTER JUNCTION 115KV'	11.825	0.09097	-0.51345	16
			WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.42229	WERE	CLAY CENTER JUNCTION 115KV'	11.825	0.09097	-0.51326	16
			WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.42248	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.033	-0.45548	18
			WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.42248	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.03435	-0.45683	18
			WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.42248	WERE	LAWRENCE ENERGY CENTER 115KV'	60	0.02019	-0.44267	18
			WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.42248	WERE	LAWRENCE ENERGY CENTER 230KV'	230.2191	0.02119	-0.44367	18
			WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.42229	WERE	TECUMSEH ENERGY CENTER 115KV'	108	0.0228	-0.44528	18
			WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.42229	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.033	-0.45529	18
			WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.42229	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.03435	-0.45684	18
			WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.42229	WERE	LAWRENCE ENERGY CENTER 115KV'	60	0.02019	-0.44248	18
			WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.42229	WERE	LAWRENCE ENERGY CENTER 230KV'	230.2191	0.02119	-0.44348	18
			WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.42229	WERE	TECUMSEH ENERGY CENTER 115KV'	108	0.0228	-0.44509	18
			WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.42248	WERE	CHANUTE 69KV'	46.617	0.0031	-0.42558	19
			WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.42248	WERE	CITY OF ERIE 69KV'	23.258	0.0031	-0.42558	19
			WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.42248	WERE	CITY OF IOLA 69KV'	19.865	0.00354	-0.42602	19
			WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.42248	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.00569	-0.42817	19
			WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.42248	WERE	EVANS ENERGY CENTER 138KV'	305	0.00086	-0.42334	19
			WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.42248	WERE	GILL ENERGY CENTER 138KV'	77	-0.00519	-0.41729	19
			WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.42248	WERE	WACO 138KV'	17.947	-0.00458	-0.4179	19
			WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.42229	WERE	CHANUTE 69KV'	46.617	0.0031	-0.42539	19
			WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.42229	WERE	CITY OF ERIE 69KV'	23.258	0.0031	-0.42539	19
			WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.42229	WERE	CITY OF IOLA 69KV'	19.865	0.00354	-0.42583	19
			WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.42229	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.00569	-0.42798	19
			WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.42229	WERE	EVANS ENERGY CENTER 138KV'	305	0.00086	-0.42315	19
			WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.42229	WERE	GILL ENERGY CENTER 138KV'	77	-0.00519	-0.4171	19
			WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.42229	WERE	WACO 138KV'	17.947	-0.00458	-0.41771	19
			WERE	PAWNEE 115KV'	999	-0.24056	WERE	ABILENE ENERGY CENTER 115KV'	18.23438	0.12191	-0.36247	22
			WERE	PAWNEE 115KV'	999	-0.24056	WERE	ABILENE ENERGY CENTER 115KV'	18.23438	0.12191	-0.36247	22
			WERE	PAWNEE 115KV'	999	-0.24056	WERE	ABILENE ENERGY CENTER 115KV'	18.23438	0.12191	-0.36247	22
			WERE	PAWNEE 115KV'	999	-0.24056	WERE	CLAY CENTER JUNCTION 115KV'	11.825	0.09097	-0.33153	24
			WERE	PAWNEE 115KV'	999	-0.24056	WERE	CLAY CENTER JUNCTION 115KV'	11.825	0.09097	-0.33153	24
			WERE	PAWNEE 115KV'	999	-0.24056	WERE	CLAY CENTER JUNCTION 115KV'	11.825	0.09097	-0.30066	27
			WERE	PAWNEE 115KV'	999	-0.24056	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.03435	-0.27491	29
			WERE	PAWNEE 115KV'	999	-0.24056	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.03435	-0.27491	29
			WERE	PAWNEE 115KV'	999	-0.24056	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.033	-0.27356	30
			WERE	PAWNEE 115KV'	999	-0.24056	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.033	-0.27356	30
			WERE	PAWNEE 115KV'	999	-0.24056	WERE	LAWRENCE ENERGY CENTER 115KV'	60	0.02019	-0.26075	31
			WERE	PAWNEE 115KV'	999	-0.24056	WERE	LAWRENCE ENERGY CENTER 230KV'	230.2191	0.02119	-0.26175	31
			WERE	PAWNEE 115KV'	999	-0.24056	WERE	TECUMSEH ENERGY CENTER 115KV'	108	0.0228	-0.26336	31
			WERE	PAWNEE 115KV'	999	-0.24056	WERE	LAWRENCE ENERGY CENTER 115KV'	60	0.02019	-0.26075	31
			WERE	PAWNEE 115KV'	999	-0.24056	WERE	LAWRENCE ENERGY CENTER 115KV'	230.2191	0.02119	-0.26175	31
			WERE	PAWNEE 115KV'	999	-0.24056	WERE	LAWRENCE ENERGY CENTER 230KV'	108	0.0228	-0.26336	31
			WERE	PAWNEE 115KV'	999	-0.24056	WERE	TECUMSEH ENERGY CENTER 115KV'	23.258	0.0031	-0.24366	33
			WERE	PAWNEE 115KV'	999	-0.24056	WERE	CITY OF ERIE 69KV'	23.258	0.0031	-0.24366	33
			WERE	PAWNEE 115KV'	999	-0.24056	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.00569	-0.24625	33
			WERE	PAWNEE 115KV'	999	-0.24056	WERE	CITY OF ERIE 69KV'	23.258	0.0031	-0.24366	33
			WERE	PAWNEE 115KV'	999	-0.24056	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.00569	-0.24625	33
			WERE	PAWNEE 115KV'	999	-0.24056	WERE	EVANS ENERGY CENTER 138KV'	305	0.00086	-0.24142	34
			WERE	PAWNEE 115KV'	999	-0.24056	WERE	GILL ENERGY CENTER 138KV'	77	-0.00519	-0.23537	34
			WERE	PAWNEE 115KV'	999	-0.24056	WERE	WACO 138KV'	17.947	-0.00458	-0.23598	34
			WERE	PAWNEE 115KV'	999	-0.24056	WERE	EVANS ENERGY CENTER 138KV'	305	0.00086	-0.24142	34
			WERE	PAWNEE 115KV'	999	-0.24056	WERE	GILL ENERGY CENTER 138KV'	77	-0.00519	-0.23537	34
			WERE	PAWNEE 115KV'	999	-0.24056	WERE	WACO 138KV'	17.947	-0.00458	-0.23598	34
			WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.52215	WERE	HUTCHINSON ENERGY CENTER 115KV'	80.00001	-0.42248	-0.09967	81
			WERE	KNOLL 3 115 115KV'	75	-0.04377	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.03435	-0.07812	104
			WERE	KNOLL 3 115 115KV'	75	-0.04377	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.033	-0.07677	105
			WERE	KNOLL 3 11								

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

WERE	'GILL ENERGY CENTER 69KV'	118	-0.00364	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.033	-0.03664	221
WERE	'EVANS ENERGY CENTER 138KV'	488	0.00086	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.03435	-0.03349	242
WERE	'EVANS ENERGY CENTER 138KV'	488	0.00086	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.033	-0.03214	252
WERE	'LATHAM1234.0 345KV'	150	0.00285	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.03435	-0.0315	257
WERE	'LATHAM1234.0 345KV'	150	0.00285	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.033	-0.03015	268

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: 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								
1090817	5.0	14.1								
1090964	7.0	14.1								
1090965	2.0	14.1								
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)	
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.50615	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.02836	-0.53451	26	
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.50615	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.02957	-0.53572	26	
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.50615	WERE	LAWRENCE ENERGY CENTER 230KV'	169.36	0.01819	-0.52434	27	
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.50615	WERE	CHANUTE 69KV'	34.818	0.00263	-0.50878	28	
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.50615	WERE	CITY OF AUGUSTA 69KV'	14.628	0.00127	-0.50742	28	
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.50615	WERE	CITY OF IOLA 69KV'	14.565	0.00301	-0.50916	28	
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.50615	WERE	CITY OF WELLINGTON 69KV'	20	-0.00231	-0.50384	28	
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.50615	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.95	0.00476	-0.51091	28	
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.50615	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00054	-0.50669	28	
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.50615	WERE	'WACO 138KV'	17.93	-0.00421	-0.50194	28	
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.40081	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.02836	-0.42917	33	
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.40081	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.02957	-0.43038	33	
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.40061	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.02836	-0.42897	33	
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.40061	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.02957	-0.43018	33	
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.40081	WERE	LAWRENCE ENERGY CENTER 230KV'	169.36	0.01819	-0.419	34	
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.40061	WERE	LAWRENCE ENERGY CENTER 230KV'	169.36	0.01819	-0.4188	34	
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.40081	WERE	CITY OF AUGUSTA 69KV'	14.628	0.00127	-0.40208	35	
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.40081	WERE	CITY OF WELLINGTON 69KV'	20	-0.00231	-0.3985	35	
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.40081	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.95	0.00476	-0.40557	35	
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.40081	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00054	-0.40135	35	
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.40061	WERE	CITY OF AUGUSTA 69KV'	14.628	0.00127	-0.40188	35	
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.40061	WERE	CITY OF WELLINGTON 69KV'	20	-0.00231	-0.3983	35	
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.40061	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.95	0.00476	-0.40537	35	
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.40061	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00054	-0.40115	35	
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.40081	WERE	'WACO 138KV'	17.93	-0.00421	-0.3966	36	
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.40061	WERE	'WACO 138KV'	17.93	-0.00421	-0.3964	36	
WERE	'PAWNEE 115KV'	999	-0.21556	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.02957	-0.24513	57	
WERE	'RICE 115KV'	999	-0.21556	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.02957	-0.24513	57	
WERE	'PAWNEE 115KV'	999	-0.21556	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.02836	-0.24392	58	
WERE	'RICE 115KV'	999	-0.21556	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.02836	-0.24392	58	
WERE	'PAWNEE 115KV'	999	-0.21556	WERE	LAWRENCE ENERGY CENTER 230KV'	169.36	0.01819	-0.23375	60	
WERE	'RICE 115KV'	999	-0.21556	WERE	LAWRENCE ENERGY CENTER 230KV'	169.36	0.01819	-0.23375	60	
WERE	'PAWNEE 115KV'	999	-0.21556	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00054	-0.2161	65	
WERE	'RICE 115KV'	999	-0.21556	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00054	-0.2161	65	
WERE	KNOLL 3 115 115KV'	75	-0.09262	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.02957	-0.12219	115	
WERE	KNOLL 3 115 115KV'	75	-0.09262	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.02836	-0.12098	116	
WERE	KNOLL 3 115 115KV'	75	-0.09262	WERE	LAWRENCE ENERGY CENTER 230KV'	169.36	0.01819	-0.11081	127	
WERE	KNOLL 3 115 115KV'	75	-0.09262	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00054	-0.09316	151	
WERE	'GILL ENERGY CENTER 138KV'	218	-0.00475	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.02957	-0.03432	410	
WERE	'GILL ENERGY CENTER 138KV'	218	-0.00475	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.02836	-0.03311	425	

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: NORTH AMERICAN PHILIPS - NORTH AMERICAN PHILIPS JUNCTION (SOUTH) 115KV CKT 1
 Direction: From->To
 Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1
 Flowgate: 57372573741568725687314208WP
 Starting 2008 12/1 - 4/1 Unit EOC
 Date Redispatch Needed:
 Season Flowgate Identified: 2008 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount								
1090817	0.8	4.4								
1090829	0.6	4.4								
1090917	0.4	4.4								
1090919	0.1	4.4								
1090920	0.6	4.4								
1090921	0.2	4.4								
1090964	1.1	4.4								
1090965	0.4	4.4								
1091057	0.4	4.4								
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)	
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.50615	WERE	CLAY CENTER JUNCTION 115KV'	6.7	0.08529	-0.59144	8	
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.50615	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.02836	-0.5344	8	
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.50615	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.02949	-0.53564	8	
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.50615	WERE	LAWRENCE ENERGY CENTER 230KV'	193.727	0.01813	-0.52428	8	
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.50615	WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.01951	-0.52566	8	
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.50615	WERE	CHANUTE 69KV'	34.903	0.00262	-0.50877	9	
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.50615	WERE	CITY OF AUGUSTA 69KV'	15.285	0.0012	-0.50735	9	
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.50615	WERE	CITY OF BURLINGTON 69KV'	4.8	0.00467	-0.51082	9	
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.50615	WERE	CITY OF IOLA 69KV'	19.902	0.00302	-0.50917	9	
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.50615	WERE	CITY OF MULVANE 69KV'	3.921	-0.0011	-0.50505	9	
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.50615	WERE	CITY OF WELLINGTON 69KV'	20	-0.00237	-0.50378	9	
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.50615	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.61	0.00467	-0.51082	9	
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.50615	WERE	'EVANS ENERGY CENTER 138KV'	110	0.00047	-0.50662	9	
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.50615	WERE	'WACO 138KV'	17.414	-0.00428	-0.50187	9	
WERE	HUTCHINSON ENERGY CENTER 115KV'	383	-0.40081	WERE	CLAY CENTER JUNCTION 115KV'	6.7	0.08529	-0.48609	9	
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.40041	WERE	CLAY CENTER JUNCTION 115KV'	6.7	0.08529	-0.4857	9	
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.50615	WERE	'COLBY 115KV'	5.652049	-0.07459	-0.43156	10	
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.50615	WERE	KNOLL 3 115 115KV'	75	-0.0925	-0.41365	11	
WERE	HUTCHINSON ENERGY CENTER 115KV'	383	-0.40081	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.02825	-0.42905	10	
WERE	HUTCHINSON ENERGY CENTER 115KV'	383	-0.40081	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.02949	-0.43029	10	
WERE	HUTCHINSON ENERGY CENTER 115KV'	383	-0.40081	WERE	LAWRENCE ENERGY CENTER 230KV'	193.727	0.01813	-0.41893	11	
WERE	HUTCHINSON ENERGY CENTER 115KV'	383	-0.40081	WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.01951	-0.42031	11	
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.40041	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.02825	-0.42866	10	

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

WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.4004	WERE	JEFFREY ENERGY CENTER 345KV	940	0.02949	-0.4299	10
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.4004	WERE	LAWRENCE ENERGY CENTER 230KV	193.727	0.01813	-0.41854	11
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.4004	WERE	TECUMSEH ENERGY CENTER 115KV	48	0.01951	-0.41992	11
WERE	HUTCHINSON ENERGY CENTER 115KV	383	-0.4008	WERE	CHANUTE 69KV	34.903	0.00262	-0.40342	11
WERE	HUTCHINSON ENERGY CENTER 115KV	383	-0.4008	WERE	CITY OF AUGUSTA 69KV	15.285	0.0012	-0.402	11
WERE	HUTCHINSON ENERGY CENTER 115KV	383	-0.4008	WERE	CITY OF BURLINGTON 69KV	4.8	0.00467	-0.40547	11
WERE	HUTCHINSON ENERGY CENTER 115KV	383	-0.4008	WERE	CITY OF IOLA 69KV	19.902	0.00302	-0.40382	11
WERE	HUTCHINSON ENERGY CENTER 115KV	383	-0.4008	WERE	CITY OF MULVANE 69KV	3.921	-0.0011	-0.3997	11
WERE	HUTCHINSON ENERGY CENTER 115KV	383	-0.4008	WERE	CITY OF WELLINGTON 69KV	20	-0.00237	-0.39843	11
WERE	HUTCHINSON ENERGY CENTER 115KV	383	-0.4008	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.61	0.00467	-0.40547	11
WERE	HUTCHINSON ENERGY CENTER 115KV	383	-0.4008	WERE	EVANS ENERGY CENTER 138KV	110	0.00047	-0.40127	11
WERE	HUTCHINSON ENERGY CENTER 115KV	383	-0.4008	WERE	WACO 138KV	17.414	-0.00428	-0.39652	11
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.4004	WERE	CHANUTE 69KV	34.903	0.00262	-0.40303	11
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.4004	WERE	CITY OF AUGUSTA 69KV	15.285	0.0012	-0.40161	11
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.4004	WERE	CITY OF BURLINGTON 69KV	4.8	0.00467	-0.40508	11
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.4004	WERE	CITY OF IOLA 69KV	19.902	0.00302	-0.40343	11
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.4004	WERE	CITY OF MULVANE 69KV	3.921	-0.0011	-0.39931	11
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.4004	WERE	CITY OF WELLINGTON 69KV	20	-0.00237	-0.39804	11
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.4004	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.61	0.00467	-0.40508	11
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.4004	WERE	EVANS ENERGY CENTER 138KV	110	0.00047	-0.40088	11
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.4004	WERE	WACO 138KV	17.414	-0.00428	-0.39613	11
WERE	HUTCHINSON ENERGY CENTER 115KV	383	-0.4008	WERE	COLBY 115KV	5.652049	-0.07459	-0.32621	14
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.4004	WERE	COLBY 115KV	5.652049	-0.07459	-0.32582	14
WERE	HUTCHINSON ENERGY CENTER 115KV	383	-0.4008	WERE	KNOLL 3 115 115KV	75	-0.0925	-0.3063	14
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.4004	WERE	KNOLL 3 115 115KV	75	-0.0925	-0.30791	14
WERE	PAWNEE 115KV	999	-0.2156	WERE	CLAY CENTER JUNCTION 115KV	6.7	0.08529	-0.30089	15
WERE	PAWNEE 115KV	999	-0.2156	WERE	CLAY CENTER JUNCTION 115KV	6.7	0.08529	-0.30089	15
WERE	ST JOHN 115KV	7.5	-0.2156	WERE	CLAY CENTER JUNCTION 115KV	6.7	0.08529	-0.30089	15
WERE	GREAT BEND PLANT 69KV	10	-0.17956	WERE	CLAY CENTER JUNCTION 115KV	6.7	0.08529	-0.26485	17
WERE	PAWNEE 115KV	999	-0.2156	WERE	JEFFREY ENERGY CENTER 230KV	470	0.02825	-0.24385	18
WERE	PAWNEE 115KV	999	-0.2156	WERE	JEFFREY ENERGY CENTER 345KV	940	0.02949	-0.24509	18
WERE	PAWNEE 115KV	999	-0.2156	WERE	JEFFREY ENERGY CENTER 230KV	470	0.02825	-0.24385	18
WERE	PAWNEE 115KV	999	-0.2156	WERE	JEFFREY ENERGY CENTER 345KV	940	0.02949	-0.24509	18
WERE	ST JOHN 115KV	7.5	-0.2156	WERE	JEFFREY ENERGY CENTER 230KV	470	0.02825	-0.24385	18
WERE	ST JOHN 115KV	7.5	-0.2156	WERE	JEFFREY ENERGY CENTER 345KV	940	0.02949	-0.24509	18
WERE	PAWNEE 115KV	999	-0.2156	WERE	LAWRENCE ENERGY CENTER 230KV	193.727	0.01813	-0.23373	19
WERE	PAWNEE 115KV	999	-0.2156	WERE	TECUMSEH ENERGY CENTER 115KV	48	0.01951	-0.23511	19
WERE	PAWNEE 115KV	999	-0.2156	WERE	LAWRENCE ENERGY CENTER 230KV	193.727	0.01813	-0.23373	19
WERE	PAWNEE 115KV	999	-0.2156	WERE	TECUMSEH ENERGY CENTER 115KV	48	0.01951	-0.23511	19
WERE	ST JOHN 115KV	7.5	-0.2156	WERE	LAWRENCE ENERGY CENTER 230KV	193.727	0.01813	-0.23373	19
WERE	ST JOHN 115KV	7.5	-0.2156	WERE	TECUMSEH ENERGY CENTER 115KV	48	0.01951	-0.23511	19
WERE	PAWNEE 115KV	999	-0.2156	WERE	CHANUTE 69KV	34.903	0.00262	-0.21822	20
WERE	PAWNEE 115KV	999	-0.2156	WERE	CITY OF AUGUSTA 69KV	15.285	0.0012	-0.2166	21
WERE	PAWNEE 115KV	999	-0.2156	WERE	CITY OF IOLA 69KV	19.902	0.00302	-0.21862	21
WERE	PAWNEE 115KV	999	-0.2156	WERE	CITY OF WELLINGTON 69KV	20	-0.00237	-0.21323	21
WERE	PAWNEE 115KV	999	-0.2156	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.61	0.00467	-0.22027	21
WERE	PAWNEE 115KV	999	-0.2156	WERE	EVANS ENERGY CENTER 138KV	110	0.00047	-0.21607	21
WERE	PAWNEE 115KV	999	-0.2156	WERE	WACO 138KV	17.414	-0.00428	-0.21132	21
WERE	PAWNEE 115KV	999	-0.2156	WERE	CHANUTE 69KV	34.903	0.00262	-0.21822	21
WERE	PAWNEE 115KV	999	-0.2156	WERE	CITY OF AUGUSTA 69KV	15.285	0.0012	-0.2166	21
WERE	PAWNEE 115KV	999	-0.2156	WERE	CITY OF IOLA 69KV	19.902	0.00302	-0.21862	21
WERE	PAWNEE 115KV	999	-0.2156	WERE	CITY OF WELLINGTON 69KV	20	-0.00237	-0.21323	21
WERE	PAWNEE 115KV	999	-0.2156	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.61	0.00467	-0.22027	21
WERE	PAWNEE 115KV	999	-0.2156	WERE	EVANS ENERGY CENTER 138KV	110	0.00047	-0.21607	21
WERE	PAWNEE 115KV	999	-0.2156	WERE	WACO 138KV	17.414	-0.00428	-0.21132	21
WERE	ST JOHN 115KV	7.5	-0.2156	WERE	CHANUTE 69KV	34.903	0.00262	-0.21822	21
WERE	ST JOHN 115KV	7.5	-0.2156	WERE	CITY OF AUGUSTA 69KV	15.285	0.0012	-0.2166	21
WERE	ST JOHN 115KV	7.5	-0.2156	WERE	CITY OF IOLA 69KV	19.902	0.00302	-0.21862	21
WERE	ST JOHN 115KV	7.5	-0.2156	WERE	CITY OF WELLINGTON 69KV	20	-0.00237	-0.21323	21
WERE	ST JOHN 115KV	7.5	-0.2156	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.61	0.00467	-0.22027	21
WERE	ST JOHN 115KV	7.5	-0.2156	WERE	EVANS ENERGY CENTER 138KV	110	0.00047	-0.21607	21
WERE	ST JOHN 115KV	7.5	-0.2156	WERE	WACO 138KV	17.414	-0.00428	-0.21132	21
WERE	GREAT BEND PLANT 69KV	10	-0.17956	WERE	JEFFREY ENERGY CENTER 230KV	470	0.02825	-0.20781	21
WERE	GREAT BEND PLANT 69KV	10	-0.17956	WERE	JEFFREY ENERGY CENTER 345KV	940	0.02949	-0.20905	21
WERE	GREAT BEND PLANT 69KV	10	-0.17956	WERE	LAWRENCE ENERGY CENTER 230KV	193.727	0.01813	-0.19769	23
WERE	GREAT BEND PLANT 69KV	10	-0.17956	WERE	TECUMSEH ENERGY CENTER 115KV	48	0.01951	-0.19907	22
WERE	GREAT BEND PLANT 69KV	10	-0.17956	WERE	CHANUTE 69KV	34.903	0.00262	-0.18218	24
WERE	GREAT BEND PLANT 69KV	10	-0.17956	WERE	CITY OF AUGUSTA 69KV	15.285	0.0012	-0.18076	25
WERE	GREAT BEND PLANT 69KV	10	-0.17956	WERE	CITY OF IOLA 69KV	19.902	0.00302	-0.18258	24
WERE	GREAT BEND PLANT 69KV	10	-0.17956	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.61	0.00467	-0.18423	24
WERE	GREAT BEND PLANT 69KV	10	-0.17956	WERE	CITY OF WELLINGTON 69KV	20	-0.00237	-0.17719	25
WERE	GREAT BEND PLANT 69KV	10	-0.17956	WERE	EVANS ENERGY CENTER 138KV	110	0.00047	-0.18003	25
WERE	GREAT BEND PLANT 69KV	10	-0.17956	WERE	WACO 138KV	17.414	-0.00428	-0.17528	25
WERE	PAWNEE 115KV	999	-0.2156	WERE	KNOLL 3 115 115KV	75	-0.0925	-0.1231	36
WERE	PAWNEE 115KV	999	-0.2156	WERE	KNOLL 3 115 115KV	75	-0.0925	-0.1231	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: WICHITA - RENO 345KV
 Limiting Facility: NORTH AMERICAN PHILLIPS JUNCTION (SOUTH) - WEST MCPHERSON 115KV CKT 1
 Direction: From->To
 Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1
 Flowgate: 57374574381568725687312206WP
 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	Aggregate Redispatch Amount (MW)
1090964	3.2	4.1	WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.24288	WERE	JEFFREY ENERGY CENTER 230KV	470	0.01575	-0.25863	16
1090965	0.9	4.1	WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.24288	WERE	JEFFREY ENERGY CENTER 345KV	940	0.01637	-0.25925	16
			WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.24288	WERE	LAWRENCE ENERGY CENTER 230KV	130.0238	0.01028	-0.25316	16
			WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.24288	WERE	CHANUTE 69KV	35.344	0.00143	-0.24431	17
			WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.24288	WERE	CITY OF AUGUSTA 69KV	17.25201	0.00045	-0.24333	17
			WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.24288	WERE	CITY OF IOLA 69KV	13.978	0.00166	-0.24454	17
			WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.24288	WERE	CITY OF WELLINGTON 69KV	24	-0.00129	-0.24159	17
			WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.24288	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.97	0.00266	-0.24554	17
			WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.24288	WERE	EVANS ENERGY CENTER 138KV	25.89745	0.00032	-0.2432	17
			WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.24288	WERE	WACO 138KV	17.953	-0.00227	-0.24061	17
			WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.19671	WERE	JEFFREY ENERGY CENTER 230KV	470	0.01575	-0.21246	19
			WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.19671	WERE	JEFFREY ENERGY CENTER 345KV	940	0.01637	-0.21308	19
			WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.19662	WERE	JEFFREY ENERGY CENTER 230KV	470	0.01575	-0.21237	19
			WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.19662	WERE	JEFFREY ENERGY CENTER 345KV	940	0.01637	-0.21299	19
			WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.19671	WERE	LAWRENCE ENERGY CENTER 230KV	130.0238	0.01028	-0.20699	20
			WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.19662	WERE	LAWRENCE ENERGY CENTER 230KV	130.0238	0.01028	-0.2069	20
			WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.19671	WERE	CHANUTE 69KV	35.344	0.00143	-0.19814	21
			WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.19671	WERE	CITY OF AUGUSTA 69KV	17.25201	0.00045	-0.19716	21
			WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.19671	WERE	CITY OF IOLA 69KV	13.978	0.00166	-0.19837	21
			WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.19671	WERE	CITY OF WELLINGTON 69KV	24	-0.00129	-0.19542	21

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

WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.19671	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.97	0.00266	-0.19937	21
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.19671	WERE	EVANS ENERGY CENTER 138KV	25.88745	0.00032	-0.19703	21
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.19671	WERE	WACO 138KV	17.953	-0.00227	-0.19444	21
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.19662	WERE	CHANUTE 69KV	35.344	0.00143	-0.19805	21
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.19662	WERE	CITY OF AUGUSTA 69KV	17.25201	0.00045	-0.19707	21
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.19662	WERE	CITY OF IOLA 69KV	13.978	0.00166	-0.19828	21
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.19662	WERE	CITY OF WELLINGTON 69KV	24	-0.00129	-0.19533	21
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.19662	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.97	0.00266	-0.19928	21
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.19662	WERE	EVANS ENERGY CENTER 138KV	25.88745	0.00032	-0.19694	21
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.19662	WERE	WACO 138KV	17.953	-0.00227	-0.19435	21
WERE	PAWNEE 115KV	999	-0.1139	WERE	JEFFREY ENERGY CENTER 230KV	470	0.01575	-0.12965	32
WERE	PAWNEE 115KV	999	-0.1139	WERE	JEFFREY ENERGY CENTER 345KV	940	0.01637	-0.13027	32
WERE	PAWNEE 115KV	999	-0.1139	WERE	JEFFREY ENERGY CENTER 230KV	470	0.01575	-0.12965	32
WERE	PAWNEE 115KV	999	-0.1139	WERE	JEFFREY ENERGY CENTER 345KV	940	0.01637	-0.13027	32
WERE	PAWNEE 115KV	999	-0.1139	WERE	LAWRENCE ENERGY CENTER 230KV	130.0238	0.01028	-0.12418	33
WERE	PAWNEE 115KV	999	-0.1139	WERE	LAWRENCE ENERGY CENTER 230KV	130.0238	0.01028	-0.12418	33
WERE	PAWNEE 115KV	999	-0.1139	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.97	0.00266	-0.11656	35
WERE	PAWNEE 115KV	999	-0.1139	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.97	0.00266	-0.11656	35
WERE	PAWNEE 115KV	999	-0.1139	WERE	CITY OF AUGUSTA 69KV	17.25201	0.00045	-0.11435	36
WERE	PAWNEE 115KV	999	-0.1139	WERE	EVANS ENERGY CENTER 138KV	25.88745	0.00032	-0.11422	36
WERE	PAWNEE 115KV	999	-0.1139	WERE	CITY OF AUGUSTA 69KV	17.25201	0.00045	-0.11435	36
WERE	PAWNEE 115KV	999	-0.1139	WERE	EVANS ENERGY CENTER 138KV	25.88745	0.00032	-0.11422	36
WERE	PAWNEE 115KV	999	-0.1139	WERE	CITY OF WELLINGTON 69KV	24	-0.00129	-0.11261	37
WERE	PAWNEE 115KV	999	-0.1139	WERE	WACO 138KV	17.953	-0.00227	-0.11163	37
WERE	PAWNEE 115KV	999	-0.1139	WERE	CITY OF WELLINGTON 69KV	24	-0.00129	-0.11261	37
WERE	PAWNEE 115KV	999	-0.1139	WERE	WACO 138KV	17.953	-0.00227	-0.11163	37
WEPL	A. M. MULLEROREN GENERATOR 115KV	63	-0.10301	WEPL	GRAY COUNTY WIND FARM 115KV	73	0.06549	-0.03752	110
WERE	KNOLL 3 115 115KV	75	-0.01862	WERE	JEFFREY ENERGY CENTER 345KV	940	0.01637	-0.03499	118
WERE	KNOLL 3 115 115KV	75	-0.01862	WERE	JEFFREY ENERGY CENTER 230KV	470	0.01575	-0.03437	120

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
1090817	2.2	6.1
1090964	3.1	6.1
1090965	0.9	6.1

Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.2354	WERE	JEFFREY ENERGY CENTER 230KV	470	0.01317	-0.24857	25
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.2354	WERE	JEFFREY ENERGY CENTER 345KV	940	0.01373	-0.24913	25
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.2354	WERE	LAWRENCE ENERGY CENTER 230KV	230.3248	0.00844	-0.24384	25
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.2354	WERE	TECUMSEH ENERGY CENTER 115KV	108	0.0908	-0.24448	25
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.2354	WERE	CHANUTE 69KV	56.296	0.0012	-0.2366	26
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.2354	WERE	CITY OF AUGUSTA 69KV	19.63601	0.00057	-0.23597	26
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.2354	WERE	CITY OF IOLA 69KV	24.256	0.00138	-0.23678	26
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.2354	WERE	CITY OF WELLINGTON 69KV	20	-0.00109	-0.23431	26
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.2354	WERE	CITY OF AUGUSTA 69KV	19.96	0.0022	-0.2376	26
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.2354	WERE	EVANS ENERGY CENTER 138KV	187.8892	0.00023	-0.23563	26
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.2354	WERE	WACO 138KV	17.946	-0.00198	-0.23342	26
WERE	HUTCHINSON ENERGY CENTER 115KV	343	-0.18641	WERE	JEFFREY ENERGY CENTER 230KV	470	0.01317	-0.19958	31
WERE	HUTCHINSON ENERGY CENTER 115KV	343	-0.18641	WERE	JEFFREY ENERGY CENTER 345KV	940	0.01373	-0.20014	31
WERE	HUTCHINSON ENERGY CENTER 115KV	343	-0.18641	WERE	LAWRENCE ENERGY CENTER 230KV	230.3248	0.00844	-0.19485	31
WERE	HUTCHINSON ENERGY CENTER 115KV	343	-0.18641	WERE	TECUMSEH ENERGY CENTER 115KV	108	0.0908	-0.19549	31
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.18632	WERE	JEFFREY ENERGY CENTER 230KV	470	0.01317	-0.19949	31
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.18632	WERE	JEFFREY ENERGY CENTER 345KV	940	0.01373	-0.20005	31
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.18632	WERE	LAWRENCE ENERGY CENTER 230KV	230.3248	0.00844	-0.19476	31
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.18632	WERE	TECUMSEH ENERGY CENTER 115KV	108	0.0908	-0.1954	31
WERE	HUTCHINSON ENERGY CENTER 115KV	343	-0.18641	WERE	CITY OF AUGUSTA 69KV	19.63601	0.00057	-0.18698	33
WERE	HUTCHINSON ENERGY CENTER 115KV	343	-0.18641	WERE	CITY OF IOLA 69KV	24.256	0.00138	-0.18779	33
WERE	HUTCHINSON ENERGY CENTER 115KV	343	-0.18641	WERE	CITY OF WELLINGTON 69KV	20	-0.00109	-0.18532	33
WERE	HUTCHINSON ENERGY CENTER 115KV	343	-0.18641	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.96	0.0022	-0.18861	33
WERE	HUTCHINSON ENERGY CENTER 115KV	343	-0.18641	WERE	EVANS ENERGY CENTER 138KV	187.8892	0.00023	-0.18664	33
WERE	HUTCHINSON ENERGY CENTER 115KV	343	-0.18641	WERE	WACO 138KV	17.946	-0.00198	-0.18443	33
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.18632	WERE	CITY OF AUGUSTA 69KV	19.63601	0.00057	-0.18689	33
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.18632	WERE	CITY OF IOLA 69KV	24.256	0.00138	-0.1877	33
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.18632	WERE	CITY OF WELLINGTON 69KV	20	-0.00109	-0.18523	33
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.18632	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.96	0.0022	-0.18852	33
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.18632	WERE	EVANS ENERGY CENTER 138KV	187.8892	0.00023	-0.18655	33
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.18632	WERE	WACO 138KV	17.946	-0.00198	-0.18434	33
WERE	PAWNEE 115KV	999	-0.10027	WERE	JEFFREY ENERGY CENTER 230KV	470	0.01317	-0.11344	54
WERE	PAWNEE 115KV	999	-0.10027	WERE	JEFFREY ENERGY CENTER 345KV	940	0.01373	-0.114	54
WERE	PAWNEE 115KV	999	-0.10027	WERE	JEFFREY ENERGY CENTER 230KV	470	0.01317	-0.11344	54
WERE	PAWNEE 115KV	999	-0.10027	WERE	JEFFREY ENERGY CENTER 345KV	940	0.01373	-0.114	54
WERE	PAWNEE 115KV	999	-0.10027	WERE	LAWRENCE ENERGY CENTER 230KV	230.3248	0.00844	-0.10871	56
WERE	PAWNEE 115KV	999	-0.10027	WERE	TECUMSEH ENERGY CENTER 115KV	108	0.0908	-0.10935	56
WERE	PAWNEE 115KV	999	-0.10027	WERE	LAWRENCE ENERGY CENTER 230KV	230.3248	0.00844	-0.10871	56
WERE	PAWNEE 115KV	999	-0.10027	WERE	TECUMSEH ENERGY CENTER 115KV	108	0.0908	-0.10935	56
WERE	PAWNEE 115KV	999	-0.10027	WERE	EVANS ENERGY CENTER 138KV	187.8892	0.00023	-0.1005	61
WERE	PAWNEE 115KV	999	-0.10027	WERE	EVANS ENERGY CENTER 138KV	187.8892	0.00023	-0.1005	61
WERE	KNOLL 3 115 115KV	75	-0.0431	WERE	JEFFREY ENERGY CENTER 345KV	940	0.01373	-0.05683	109
WERE	KNOLL 3 115 115KV	75	-0.0431	WERE	JEFFREY ENERGY CENTER 230KV	470	0.01317	-0.05627	109
WERE	KNOLL 3 115 115KV	75	-0.0431	WERE	TECUMSEH ENERGY CENTER 115KV	108	0.0908	-0.05218	118
WERE	KNOLL 3 115 115KV	75	-0.0431	WERE	LAWRENCE ENERGY CENTER 230KV	230.3248	0.00844	-0.05154	119
WERE	KNOLL 3 115 115KV	75	-0.0431	WERE	EVANS ENERGY CENTER 138KV	187.8892	0.00023	-0.04333	142

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: 57374574381568725687312207SH
 Date Redispatch Needed: 6/1 - 10/1 Until EOC of Upgrade
 Season Flowgate Identified: 2007 Summer Shoulder

Reservation	Relief Amount	Aggregate Relief Amount
1090817	2.8	7.7
1090964	3.9	7.7
1090965	1.1	7.7

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

Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.24281	WERE	'ABILENE ENERGY CENTER 115KV'	18.23438	0.05669	-0.2995	26
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.24281	WERE	'CLAY CENTER JUNCTION 115KV'	11.825	0.0423	-0.28511	27
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.24281	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01534	-0.25815	30
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.24281	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01597	-0.25878	30
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.24281	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00939	-0.2522	31
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.24281	WERE	'LAWRENCE ENERGY CENTER 230KV'	230.2191	0.00986	-0.25267	31
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.24281	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.0106	-0.25341	31
WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.19647	WERE	'ABILENE ENERGY CENTER 115KV'	18.23438	0.05669	-0.25316	31
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.19638	WERE	'ABILENE ENERGY CENTER 115KV'	18.23438	0.05669	-0.25307	31
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.24281	WERE	'CHANUTE 69KV'	46.617	0.00144	-0.24425	32
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.24281	WERE	'CITY OF ERIE 69KV'	23.258	0.00144	-0.24425	32
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.24281	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.00264	-0.24545	32
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.24281	WERE	'EVANS ENERGY CENTER 138KV'	305	0.0004	-0.24321	32
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.24281	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00241	-0.2404	32
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.24281	WERE	'WACO 138KV'	17.947	-0.00213	-0.24068	32
WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.19647	WERE	'CLAY CENTER JUNCTION 115KV'	11.825	0.0423	-0.23877	32
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.19638	WERE	'CLAY CENTER JUNCTION 115KV'	11.825	0.0423	-0.23868	32
WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.19647	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01597	-0.21244	36
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.19638	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01597	-0.21235	36
WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.19647	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01534	-0.21181	37
WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.19647	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.0106	-0.20707	37
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.19638	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01534	-0.21172	37
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.19638	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.0106	-0.20698	37
WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.19647	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00939	-0.20586	38
WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.19647	WERE	'LAWRENCE ENERGY CENTER 230KV'	230.2191	0.00986	-0.20633	38
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.19638	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00939	-0.20577	38
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.19638	WERE	'LAWRENCE ENERGY CENTER 230KV'	230.2191	0.00986	-0.20624	38
WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.19647	WERE	'CITY OF ERIE 69KV'	23.258	0.00144	-0.19791	39
WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.19647	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.00264	-0.19911	39
WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.19647	WERE	'EVANS ENERGY CENTER 138KV'	305	0.0004	-0.19687	39
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.19638	WERE	'CITY OF ERIE 69KV'	23.258	0.00144	-0.19782	39
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.19638	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.00264	-0.19902	39
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.19638	WERE	'EVANS ENERGY CENTER 138KV'	305	0.0004	-0.19678	39
WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.19647	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00241	-0.19406	40
WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.19647	WERE	'WACO 138KV'	17.947	-0.00213	-0.19434	40
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.19638	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00241	-0.19397	40
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.19638	WERE	'WACO 138KV'	17.947	-0.00213	-0.19425	40
WERE	'PAWNEE 115KV'	999	-0.11187	WERE	'ABILENE ENERGY CENTER 115KV'	18.23438	0.05669	-0.16856	46
WERE	'RICE 115KV'	999	-0.11187	WERE	'ABILENE ENERGY CENTER 115KV'	18.23438	0.05669	-0.16856	46
WERE	'PAWNEE 115KV'	999	-0.11187	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01534	-0.12721	61
WERE	'PAWNEE 115KV'	999	-0.11187	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01597	-0.12784	61
WERE	'RICE 115KV'	999	-0.11187	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01534	-0.12721	61
WERE	'RICE 115KV'	999	-0.11187	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01597	-0.12784	61
WERE	'PAWNEE 115KV'	999	-0.11187	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.0106	-0.12247	63
WERE	'RICE 115KV'	999	-0.11187	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.0106	-0.12247	63
WERE	'PAWNEE 115KV'	999	-0.11187	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00939	-0.12126	64
WERE	'PAWNEE 115KV'	999	-0.11187	WERE	'LAWRENCE ENERGY CENTER 230KV'	230.2191	0.00986	-0.12173	64
WERE	'RICE 115KV'	999	-0.11187	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00939	-0.12126	64
WERE	'RICE 115KV'	999	-0.11187	WERE	'LAWRENCE ENERGY CENTER 230KV'	230.2191	0.00986	-0.12173	64
WERE	'PAWNEE 115KV'	999	-0.11187	WERE	'CITY OF ERIE 69KV'	23.258	0.00144	-0.11331	68
WERE	'RICE 115KV'	999	-0.11187	WERE	'CITY OF ERIE 69KV'	23.258	0.00144	-0.11331	68
WERE	'PAWNEE 115KV'	999	-0.11187	WERE	'EVANS ENERGY CENTER 138KV'	305	0.0004	-0.11227	69
WERE	'RICE 115KV'	999	-0.11187	WERE	'EVANS ENERGY CENTER 138KV'	305	0.0004	-0.11227	69
WERE	'PAWNEE 115KV'	999	-0.11187	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00241	-0.10946	71
WERE	'RICE 115KV'	999	-0.11187	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00241	-0.10946	71
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.24281	WERE	'HUTCHINSON ENERGY CENTER 115KV'	80.00001	-0.19647	-0.04634	167
WERE	'KNOLL 3 115 115KV'	75	-0.02035	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01597	-0.03632	213
WERE	'KNOLL 3 115 115KV'	75	-0.02035	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01534	-0.03569	217
WERE	'KNOLL 3 115 115KV'	75	-0.02035	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.0106	-0.03095	250

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 PHILLIPS JUNCTION (SOUTH) - WEST MCPHERSON 115KV CKT 1
 Direction: From->To
 Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1
 Flowgate: 57374574381568725687312207WP
 Date Redispatch Needed: 12/1/07 - 4/1/08
 Season Flowgate Identified: 2007 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090817	2.3	6.5
1090964	3.3	6.5
1090965	0.9	6.5

Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.23538	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01319	-0.24857	26
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.23538	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01375	-0.24913	26
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.23538	WERE	'LAWRENCE ENERGY CENTER 230KV'	169.36	0.00846	-0.24384	27
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.23538	WERE	'CHANUTE 69KV'	34.818	0.00122	-0.2366	28
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.23538	WERE	'CITY OF AUGUSTA 69KV'	14.628	0.00059	-0.23597	28
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.23538	WERE	'CITY OF IOLA 69KV'	14.565	0.0014	-0.23678	28
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.23538	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00108	-0.2343	28
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.23538	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.95	0.00222	-0.2376	28
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.23538	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00025	-0.23563	28
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.18639	WERE	'WACO 138KV'	17.93	-0.00196	-0.23342	28
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.18639	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01319	-0.19958	33
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.18639	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01375	-0.20014	33
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.1863	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01319	-0.19949	33
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.1863	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01375	-0.20005	33
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.18639	WERE	'LAWRENCE ENERGY CENTER 230KV'	169.36	0.00846	-0.19485	34
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.1863	WERE	'LAWRENCE ENERGY CENTER 230KV'	169.36	0.00846	-0.19476	34
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.18639	WERE	'CITY OF AUGUSTA 69KV'	14.628	0.00059	-0.18698	35
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.18639	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00108	-0.18531	35
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.18639	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.95	0.00222	-0.18861	35
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.18639	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00025	-0.18664	35
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.1863	WERE	'CITY OF AUGUSTA 69KV'	14.628	0.00059	-0.18689	35
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.1863	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00108	-0.18522	35
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.1863	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.95	0.00222	-0.18852	35
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.1863	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00025	-0.18655	35
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.18639	WERE	'WACO 138KV'	17.93	-0.00196	-0.18443	36
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.1863	WERE	'WACO 138KV'	17.93	-0.00196	-0.18434	36
WERE	'PAWNEE 115KV'	999	-0.10024	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01375	-0.11399	57
WERE	'RICE 115KV'	999	-0.10024	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01375	-0.11399	57
WERE	'PAWNEE 115KV'	999	-0.10024	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01319	-0.11343	58
WERE	'RICE 115KV'	999	-0.10024	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01319	-0.11343	58
WERE	'PAWNEE 115KV'	999	-0.10024	WERE	'LAWRENCE ENERGY CENTER 230KV'	169.36	0.00846	-0.1087	60
WERE	'RICE 115KV'	999	-0.10024	WERE	'LAWRENCE ENERGY CENTER 230KV'	169.36	0.00846	-0.1087	60

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

WERE	'PAWNEE 115KV'	999	-0.10024	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00025	-0.10049	65
WERE	'RICE 115KV'	999	-0.10024	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00025	-0.10049	65
WERE	'KNOLL 3 115 115KV'	75	-0.04307	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01375	-0.05682	115
WERE	'KNOLL 3 115 115KV'	75	-0.04307	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01319	-0.05626	116
WERE	'KNOLL 3 115 115KV'	75	-0.04307	WERE	'LAWRENCE ENERGY CENTER 230KV'	169.36	0.00846	-0.05153	127
WERE	'KNOLL 3 115 115KV'	75	-0.04307	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00025	-0.04332	151

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: 57374574381568725687314207G
 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	Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
1090964	1.9	2.4	WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.2428	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.05672	-0.29852	8
1090965	0.5	2.4	WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.2428	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01537	-0.25817	9
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.2428	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.016	-0.2588	9
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.2428	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.01063	-0.25343	9
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	300.5205	-0.19645	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.05672	-0.25317	9
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19636	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.05672	-0.25308	9
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.2428	WERE	'CHANUTE 69KV'	40.39	0.00148	-0.24428	10
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.2428	WERE	'CITY OF AUGUSTA 69KV'	20.02	0.0008	-0.2436	10
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.2428	WERE	'CITY OF BURLINGTON 69KV'	4.8	0.00267	-0.24547	10
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.2428	WERE	'CITY OF IOLA 69KV'	17.08	0.00168	-0.24448	10
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.2428	WERE	'CITY OF MULVANE 69KV'	4.922	-0.00042	-0.24238	10
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.2428	WERE	'CITY OF WELLINGTON 69KV'	40.503	-0.00115	-0.24165	10
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.2428	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20.09	0.00267	-0.24547	10
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.2428	WERE	'EVANS ENERGY CENTER 138KV'	305	0.00042	-0.24322	10
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.2428	WERE	'GILL ENERGY CENTER 138KV'	155	-0.00239	-0.24041	10
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.2428	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00942	-0.25222	10
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.2428	WERE	'LAWRENCE ENERGY CENTER 230KV'	227.1991	0.00988	-0.25268	10
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.2428	WERE	'WACO 138KV'	18	-0.00211	-0.24069	10
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	300.5205	-0.19645	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01537	-0.21182	11
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	300.5205	-0.19645	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.016	-0.21245	11
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19636	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01537	-0.21173	11
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19636	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.016	-0.21236	11
			WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.2428	WERE	'COLBY 115KV'	6.130238	-0.36555	-0.20625	12
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	300.5205	-0.19645	WERE	'CHANUTE 69KV'	40.39	0.00148	-0.19793	12
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	300.5205	-0.19645	WERE	'CITY OF AUGUSTA 69KV'	20.02	0.0008	-0.19725	12
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	300.5205	-0.19645	WERE	'CITY OF BURLINGTON 69KV'	4.8	0.00267	-0.19912	12
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	300.5205	-0.19645	WERE	'CITY OF IOLA 69KV'	17.08	0.00168	-0.19813	12
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	300.5205	-0.19645	WERE	'CITY OF MULVANE 69KV'	4.922	-0.00042	-0.19603	12
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	300.5205	-0.19645	WERE	'CITY OF WELLINGTON 69KV'	40.503	-0.00115	-0.1953	12
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	300.5205	-0.19645	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20.09	0.00267	-0.19912	12
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	300.5205	-0.19645	WERE	'EVANS ENERGY CENTER 138KV'	305	0.00042	-0.19687	12
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	300.5205	-0.19645	WERE	'GILL ENERGY CENTER 138KV'	155	-0.00239	-0.19406	12
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	300.5205	-0.19645	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00942	-0.20597	12
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	300.5205	-0.19645	WERE	'LAWRENCE ENERGY CENTER 230KV'	227.1991	0.00988	-0.20633	12
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	300.5205	-0.19645	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.01063	-0.20708	12
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	300.5205	-0.19645	WERE	'WACO 138KV'	18	-0.00211	-0.19434	12
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19636	WERE	'CHANUTE 69KV'	40.39	0.00148	-0.19784	12
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19636	WERE	'CITY OF AUGUSTA 69KV'	20.02	0.0008	-0.19716	12
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19636	WERE	'CITY OF BURLINGTON 69KV'	4.8	0.00267	-0.19903	12
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19636	WERE	'CITY OF IOLA 69KV'	17.08	0.00168	-0.19804	12
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19636	WERE	'CITY OF MULVANE 69KV'	4.922	-0.00042	-0.19594	12
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19636	WERE	'CITY OF WELLINGTON 69KV'	40.503	-0.00115	-0.19521	12
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19636	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20.09	0.00267	-0.19903	12
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19636	WERE	'EVANS ENERGY CENTER 138KV'	305	0.00042	-0.19678	12
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19636	WERE	'GILL ENERGY CENTER 138KV'	155	-0.00239	-0.19397	12
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19636	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00942	-0.20578	12
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19636	WERE	'LAWRENCE ENERGY CENTER 230KV'	227.1991	0.00988	-0.20624	12
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19636	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.01063	-0.20699	12
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19636	WERE	'WACO 138KV'	18	-0.00211	-0.19425	12
			WERE	'PAWNEE 115KV'	999	-0.11186	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.05672	-0.18858	14
			WERE	'RICE 115KV'	999	-0.11186	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.05672	-0.18858	14
			WERE	'ST JOHN 115KV'	7.5	-0.11186	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.05672	-0.18858	14
			WERE	'HUTCHINSON ENERGY CENTER 115KV'	300.5205	-0.19645	WERE	'COLBY 115KV'	6.130238	-0.36555	-0.1599	15
			WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.19636	WERE	'COLBY 115KV'	6.130238	-0.36555	-0.15981	15
			WERE	'GREAT BEND PLANT 69KV'	10	-0.0975	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.05672	-0.15422	16
			WERE	'PAWNEE 115KV'	999	-0.11186	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01537	-0.12723	19
			WERE	'PAWNEE 115KV'	999	-0.11186	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.016	-0.12786	19
			WERE	'RICE 115KV'	999	-0.11186	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01537	-0.12723	19
			WERE	'RICE 115KV'	999	-0.11186	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.016	-0.12786	19
			WERE	'ST JOHN 115KV'	7.5	-0.11186	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01537	-0.12723	19
			WERE	'ST JOHN 115KV'	7.5	-0.11186	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.016	-0.12786	19
			WERE	'PAWNEE 115KV'	999	-0.11186	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00942	-0.12128	20
			WERE	'PAWNEE 115KV'	999	-0.11186	WERE	'LAWRENCE ENERGY CENTER 230KV'	227.1991	0.00988	-0.12174	20
			WERE	'PAWNEE 115KV'	999	-0.11186	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.01063	-0.12249	20
			WERE	'RICE 115KV'	999	-0.11186	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00942	-0.12128	20
			WERE	'RICE 115KV'	999	-0.11186	WERE	'LAWRENCE ENERGY CENTER 230KV'	227.1991	0.00988	-0.12174	20
			WERE	'RICE 115KV'	999	-0.11186	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.01063	-0.12249	20
			WERE	'RICE 115KV'	999	-0.11186	WERE	'WACO 138KV'	18	-0.00211	-0.12128	20
			WERE	'ST JOHN 115KV'	7.5	-0.11186	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.00942	-0.12128	20
			WERE	'ST JOHN 115KV'	7.5	-0.11186	WERE	'LAWRENCE ENERGY CENTER 230KV'	227.1991	0.00988	-0.12174	20
			WERE	'ST JOHN 115KV'	7.5	-0.11186	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.01063	-0.12249	20
			WERE	'GREAT BEND PLANT 69KV'	10	-0.0975	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01537	-0.11287	21
			WERE	'GREAT BEND PLANT 69KV'	10	-0.0975	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.016	-0.1135	21
			WERE	'PAWNEE 115KV'	999	-0.11186	WERE	'CHANUTE 69KV'	40.39	0.00148	-0.11334	21
			WERE	'PAWNEE 115KV'	999	-0.11186	WERE	'CITY OF AUGUSTA 69KV'	20.02	0.0008	-0.11266	21
			WERE	'PAWNEE 115KV'	999	-0.11186	WERE	'CITY OF IOLA 69KV'	17.08	0.00168	-0.11354	21
			WERE	'PAWNEE 115KV'	999	-0.11186	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	20.09	0.00267	-0.11453	21
			WERE	'PAWNEE 115KV'	999	-0.11186	WERE	'EVANS ENERGY CENTER 138KV'	305	0.00042	-0.11228	21
			WERE	'RICE 115KV'	999	-0.11186	WERE	'CHANUTE 69KV'	40.39	0.00148	-0.11334	21
			WERE	'RICE 115KV'	999	-0.11186	WERE	'CITY OF AUGUSTA 69KV'	20.02	0.0008	-0.11266	21
			WERE	'RICE 115KV'	999	-						

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

WERE	'GREAT BEND PLANT 69KV'	10	-0.0975	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.01063	-0.10813	22
WERE	'PAWNEE 115KV'	999	-0.11186	WERE	'GILL ENERGY CENTER 138KV'	155	-0.00239	-0.10947	22
WERE	'PAWNEE 115KV'	999	-0.11186	WERE	'WACO 138KV'	18	-0.00211	-0.10975	22
WERE	'RICE 115KV'	999	-0.11186	WERE	'GILL ENERGY CENTER 138KV'	155	-0.00239	-0.10947	22
WERE	'RICE 115KV'	999	-0.11186	WERE	'WACO 138KV'	18	-0.00211	-0.10975	22
WERE	'ST JOHN 115KV'	7.5	-0.11186	WERE	'CITY OF WELLINGTON 69KV'	40.503	-0.00115	-0.11071	22
WERE	'ST JOHN 115KV'	7.5	-0.11186	WERE	'GILL ENERGY CENTER 138KV'	155	-0.00239	-0.10947	22
WERE	'ST JOHN 115KV'	7.5	-0.11186	WERE	'WACO 138KV'	18	-0.00211	-0.10975	22
WERE	'GREAT BEND PLANT 69KV'	10	-0.0975	WERE	'CHANUTE 69KV'	40.39	0.00148	-0.09898	24
WERE	'GREAT BEND PLANT 69KV'	10	-0.0975	WERE	'CITY OF AUGUSTA 69KV'	20.02	0.0008	-0.0983	24
WERE	'GREAT BEND PLANT 69KV'	10	-0.0975	WERE	'CITY OF IOLA 69KV'	17.08	0.00168	-0.09916	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: WICHITA - RENO 345KV
 Limiting Facility: NORTH AMERICAN PHILLIPS JUNCTION (SOUTH) - WEST MCPHERSON 115KV CKT 1
 Direction: From->To
 Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1
 Flowgate: 57374574381568725687314208WP
 Date Redispatch Needed: Starting 2008 12/1 - 4/1 Until EOC
 Season Flowgate Identified: 2008 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090817	1.6	8.0
1090829	0.9	8.0
1090917	0.6	8.0
1090919	0.2	8.0
1090920	1.2	8.0
1090921	0.3	8.0
1090964	2.1	8.0
1090965	0.6	8.0
1091057	0.6	8.0

Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23538	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01314	-0.24852	32
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23538	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01371	-0.24909	32
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23538	WERE	'LAWRENCE ENERGY CENTER 230KV'	193.727	0.00843	-0.24381	33
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23538	WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.00907	-0.24445	33
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23538	WERE	'CHANUTE 69KV'	34.903	0.00122	-0.23266	34
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23538	WERE	'CITY OF AUGUSTA 69KV'	15.285	0.00056	-0.23584	34
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23538	WERE	'CITY OF IOLA 69KV'	19.902	0.00141	-0.23679	34
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23538	WERE	'CITY OF WELLINGTON 69KV'	20	-0.0011	-0.23428	34
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23538	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.61	0.00217	-0.23755	34
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23538	WERE	'EVANS ENERGY CENTER 138KV'	110	0.00022	-0.23566	34
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23538	WERE	'WACO 138KV'	17.414	-0.00199	-0.23339	34
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.18638	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01371	-0.20009	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.18638	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01314	-0.19952	40
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.18638	WERE	'LAWRENCE ENERGY CENTER 230KV'	193.727	0.00843	-0.19481	41
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.18638	WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.00907	-0.19545	41
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.1862	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01314	-0.19934	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.1862	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01371	-0.19991	40
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.1862	WERE	'LAWRENCE ENERGY CENTER 230KV'	193.727	0.00843	-0.19463	41
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.1862	WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.00907	-0.19527	41
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23538	WERE	'KNOLL 3 115 115KV'	75	-0.04301	-0.19237	42
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.18638	WERE	'CITY OF AUGUSTA 69KV'	15.285	0.00056	-0.18694	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.18638	WERE	'CITY OF WELLINGTON 69KV'	20	-0.0011	-0.18528	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.18638	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.61	0.00217	-0.18855	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.18638	WERE	'EVANS ENERGY CENTER 138KV'	110	0.00022	-0.1866	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.1862	WERE	'CITY OF AUGUSTA 69KV'	15.285	0.00056	-0.18676	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.1862	WERE	'CITY OF WELLINGTON 69KV'	20	-0.0011	-0.1851	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.1862	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.61	0.00217	-0.18837	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.1862	WERE	'EVANS ENERGY CENTER 138KV'	110	0.00022	-0.18642	43
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.18638	WERE	'WACO 138KV'	17.414	-0.00199	-0.18439	43
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.1862	WERE	'WACO 138KV'	17.414	-0.00199	-0.18421	44
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.18638	WERE	'KNOLL 3 115 115KV'	75	-0.04301	-0.14337	56
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.1862	WERE	'KNOLL 3 115 115KV'	75	-0.04301	-0.14319	56
WERE	'PAWNEE 115KV'	999	-0.10026	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01371	-0.11397	70
WERE	'RICE 115KV'	999	-0.10026	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01371	-0.11397	70
WERE	'PAWNEE 115KV'	999	-0.10026	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01314	-0.11334	71
WERE	'RICE 115KV'	999	-0.10026	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01314	-0.11334	71
WERE	'PAWNEE 115KV'	999	-0.10026	WERE	'LAWRENCE ENERGY CENTER 230KV'	193.727	0.00843	-0.10869	74
WERE	'PAWNEE 115KV'	999	-0.10026	WERE	'LAWRENCE ENERGY CENTER 115KV'	48	0.00907	-0.10933	74
WERE	'RICE 115KV'	999	-0.10026	WERE	'LAWRENCE ENERGY CENTER 230KV'	193.727	0.00843	-0.10869	74
WERE	'RICE 115KV'	999	-0.10026	WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.00907	-0.10933	73
WERE	'PAWNEE 115KV'	999	-0.10026	WERE	'EVANS ENERGY CENTER 138KV'	110	0.00022	-0.10048	80
WERE	'RICE 115KV'	999	-0.10026	WERE	'EVANS ENERGY CENTER 138KV'	110	0.00022	-0.10048	80
WERE	'PAWNEE 115KV'	999	-0.10026	WERE	'KNOLL 3 115 115KV'	75	-0.04301	-0.05725	140
WERE	'RICE 115KV'	999	-0.10026	WERE	'KNOLL 3 115 115KV'	75	-0.04301	-0.05725	140

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 PHILLIPS JUNCTION (SOUTH) - WEST MCPHERSON 115KV CKT 2
 Direction: From->To
 Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1
 Flowgate: 57374574382568725687312206WP
 Date Redispatch Needed: 12/1/06 - 4/1/07
 Season Flowgate Identified: 2006 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090964	3.7	4.8
1090965	1.1	4.8

Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.27941	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01812	-0.29753	16
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.27941	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01883	-0.29824	16
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.27941	WERE	'LAWRENCE ENERGY CENTER 230KV'	130.0238	0.01183	-0.29124	16
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.27941	WERE	'CHANUTE 69KV'	35.344	0.00165	-0.28106	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.27941	WERE	'CITY OF AUGUSTA 69KV'	17.25201	0.00051	-0.27992	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.27941	WERE	'CITY OF IOLA 69KV'	13.978	0.00191	-0.28132	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.27941	WERE	'CITY OF WELLINGTON 69KV'	24	-0.00148	-0.27793	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.27941	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.00306	-0.28247	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.27941	WERE	'EVANS ENERGY CENTER 138KV'	25.88745	0.00037	-0.27978	17
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.27941	WERE	'WACO 138KV'	17.953	-0.00261	-0.2768	17
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.2263	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01812	-0.24442	19
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.2263	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01883	-0.24513	19
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2262	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01812	-0.24432	19
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2262	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01883	-0.24503	19

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

WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.2263	WERE	LAWRENCE ENERGY CENTER 230KV	130.0238	0.01183	-0.23813	20
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.2262	WERE	LAWRENCE ENERGY CENTER 230KV	130.0238	0.01183	-0.23803	20
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.2263	WERE	CHANUTE 69KV	35.344	0.00165	-0.22795	21
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.2263	WERE	CITY OF AUGUSTA 69KV	17.25201	0.00051	-0.22681	21
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.2263	WERE	CITY OF IOLA 69KV	13.978	0.00191	-0.22821	21
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.2263	WERE	CITY OF WELLINGTON 69KV	24	-0.00148	-0.22482	21
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.2263	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.97	0.00306	-0.22936	21
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.2263	WERE	EVANS ENERGY CENTER 138KV	25.88745	0.00037	-0.22667	21
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.2263	WERE	WACO 138KV	17.953	-0.00281	-0.22369	21
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.2262	WERE	CHANUTE 69KV	35.344	0.00165	-0.22785	21
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.2262	WERE	CITY OF AUGUSTA 69KV	17.25201	0.00051	-0.22671	21
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.2262	WERE	CITY OF IOLA 69KV	13.978	0.00191	-0.22811	21
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.2262	WERE	CITY OF WELLINGTON 69KV	24	-0.00148	-0.22472	21
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.2262	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.97	0.00306	-0.22926	21
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.2262	WERE	EVANS ENERGY CENTER 138KV	25.88745	0.00037	-0.22657	21
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.2262	WERE	WACO 138KV	17.953	-0.00261	-0.22359	21
WERE	PAWNEE 115KV	999	-0.13103	WERE	JEFFREY ENERGY CENTER 230KV	470	0.01812	-0.14915	32
WERE	PAWNEE 115KV	999	-0.13103	WERE	JEFFREY ENERGY CENTER 345KV	940	0.01883	-0.14986	32
WERE	RICE 115KV	999	-0.13103	WERE	JEFFREY ENERGY CENTER 230KV	470	0.01812	-0.14915	32
WERE	RICE 115KV	999	-0.13103	WERE	JEFFREY ENERGY CENTER 345KV	940	0.01883	-0.14986	32
WERE	PAWNEE 115KV	999	-0.13103	WERE	LAWRENCE ENERGY CENTER 230KV	130.0238	0.01183	-0.14286	33
WERE	RICE 115KV	999	-0.13103	WERE	LAWRENCE ENERGY CENTER 230KV	130.0238	0.01183	-0.14286	33
WERE	PAWNEE 115KV	999	-0.13103	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.97	0.00306	-0.13409	35
WERE	RICE 115KV	999	-0.13103	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.97	0.00306	-0.13409	35
WERE	PAWNEE 115KV	999	-0.13103	WERE	CITY OF AUGUSTA 69KV	17.25201	0.00051	-0.13154	36
WERE	PAWNEE 115KV	999	-0.13103	WERE	EVANS ENERGY CENTER 138KV	25.88745	0.00037	-0.1314	36
WERE	RICE 115KV	999	-0.13103	WERE	CITY OF AUGUSTA 69KV	17.25201	0.00051	-0.13154	36

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

WERE	'RICE 115KV'	999	-0.13103	WERE	'EVANS ENERGY CENTER 138KV'	25.88745	0.00037	-0.1314	36
WERE	'PAWNEE 115KV'	999	-0.13103	WERE	'CITY OF WELLINGTON 69KV'	24	-0.00148	-0.12955	37
WERE	'PAWNEE 115KV'	999	-0.13103	WERE	'WACO 138KV'	17.953	-0.00261	-0.12842	37
WERE	'RICE 115KV'	999	-0.13103	WERE	'CITY OF WELLINGTON 69KV'	24	-0.00148	-0.12955	37
WERE	'RICE 115KV'	999	-0.13103	WERE	'WACO 138KV'	17.953	-0.00261	-0.12842	37
WEPL	'A. M. MULLERGRN GENERATOR 115KV'	63	-0.1185	WEPL	'GRAY COUNTY WIND FARM 115KV'	73	-0.07534	-0.04316	110
WERE	'KNOLL 3 115 115KV'	75	-0.02141	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01883	-0.04024	118
WERE	'KNOLL 3 115 115KV'	75	-0.02141	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01812	-0.03953	120
WERE	'KNOLL 3 115 115KV'	75	-0.02141	WERE	'LAWRENCE ENERGY CENTER 230KV'	130.0238	0.01183	-0.03224	143

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 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							
	1090817	1.3	3.6						
	1090964	1.7	3.6						
	1090965	0.5	3.6						
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.27078	WERE	'CLAY CENTER JUNCTION 115KV'	6.7	0.04568	-0.31646	11
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.27078	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01517	-0.28595	12
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.27078	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01582	-0.2866	12
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.27078	WERE	'CHANUTE 69KV'	34.818	0.00141	-0.27219	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.27078	WERE	'CITY OF AUGUSTA 69KV'	14.628	0.00068	-0.27146	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.27078	WERE	'CITY OF BURLINGTON 69KV'	4.8	0.00255	-0.27333	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.27078	WERE	'CITY OF IOLA 69KV'	14.565	0.00161	-0.27239	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.27078	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00124	-0.26954	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.27078	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.95	0.00255	-0.27333	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.27078	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00029	-0.27107	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.27078	WERE	'LAWRENCE ENERGY CENTER 230KV'	169.36	0.00973	-0.28051	13
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.27078	WERE	'WACO 138KV'	17.93	-0.00225	-0.26853	13
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21442	WERE	'CLAY CENTER JUNCTION 115KV'	6.7	0.04568	-0.2601	14
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21432	WERE	'CLAY CENTER JUNCTION 115KV'	6.7	0.04568	-0.26	14
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.27078	WERE	'COLBY 115KV'	6.247878	-0.04074	-0.23004	15
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21442	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01517	-0.22959	15
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21442	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01582	-0.23024	15
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21432	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01517	-0.22949	15
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21432	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01582	-0.23014	15
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21442	WERE	'CHANUTE 69KV'	34.818	0.00141	-0.21583	16
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21442	WERE	'CITY OF IOLA 69KV'	14.565	0.00161	-0.21603	16
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21442	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.95	0.00255	-0.21697	16
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21442	WERE	'LAWRENCE ENERGY CENTER 230KV'	169.36	0.00973	-0.22415	16
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21432	WERE	'CHANUTE 69KV'	34.818	0.00141	-0.21573	16
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21432	WERE	'CITY OF IOLA 69KV'	14.565	0.00161	-0.21593	16
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21432	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.95	0.00255	-0.21687	16
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21432	WERE	'LAWRENCE ENERGY CENTER 230KV'	169.36	0.00973	-0.22405	16
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21442	WERE	'CITY OF AUGUSTA 69KV'	14.628	0.00068	-0.2151	17
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21442	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00124	-0.21318	17
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21442	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00029	-0.21471	17
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.21442	WERE	'WACO 138KV'	17.93	-0.00225	-0.21217	17
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21432	WERE	'CITY OF AUGUSTA 69KV'	14.628	0.00068	-0.215	17
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21432	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00124	-0.21308	17
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21432	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00029	-0.21461	17
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21432	WERE	'WACO 138KV'	17.93	-0.00225	-0.21207	17
WERE	'PAWNEE 115KV'	999	-0.11532	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01517	-0.13049	27
WERE	'PAWNEE 115KV'	999	-0.11532	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01582	-0.13114	27
WERE	'RICE 115KV'	999	-0.11532	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01517	-0.13049	27
WERE	'RICE 115KV'	999	-0.11532	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01582	-0.13114	27
WERE	'PAWNEE 115KV'	999	-0.11532	WERE	'LAWRENCE ENERGY CENTER 230KV'	169.36	0.00973	-0.12505	28
WERE	'RICE 115KV'	999	-0.11532	WERE	'LAWRENCE ENERGY CENTER 230KV'	169.36	0.00973	-0.12505	28
WERE	'PAWNEE 115KV'	999	-0.11532	WERE	'CHANUTE 69KV'	34.818	0.00141	-0.11673	30
WERE	'PAWNEE 115KV'	999	-0.11532	WERE	'CITY OF IOLA 69KV'	14.565	0.00161	-0.11693	30
WERE	'PAWNEE 115KV'	999	-0.11532	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.95	0.00255	-0.11787	30
WERE	'RICE 115KV'	999	-0.11532	WERE	'CHANUTE 69KV'	34.818	0.00141	-0.11673	30
WERE	'RICE 115KV'	999	-0.11532	WERE	'CITY OF IOLA 69KV'	14.565	0.00161	-0.11693	30
WERE	'RICE 115KV'	999	-0.11532	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.95	0.00255	-0.11787	30
WERE	'PAWNEE 115KV'	999	-0.11532	WERE	'CITY OF AUGUSTA 69KV'	14.628	0.00068	-0.116	31
WERE	'PAWNEE 115KV'	999	-0.11532	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00124	-0.11408	31
WERE	'PAWNEE 115KV'	999	-0.11532	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00029	-0.11561	31
WERE	'PAWNEE 115KV'	999	-0.11532	WERE	'WACO 138KV'	17.93	-0.00225	-0.11307	31
WERE	'RICE 115KV'	999	-0.11532	WERE	'CITY OF AUGUSTA 69KV'	14.628	0.00068	-0.116	31
WERE	'RICE 115KV'	999	-0.11532	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00124	-0.11408	31
WERE	'RICE 115KV'	999	-0.11532	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00029	-0.11561	31
WERE	'RICE 115KV'	999	-0.11532	WERE	'WACO 138KV'	17.93	-0.00225	-0.11307	31
WERE	'KNOLL 3 115 115KV'	75	-0.04955	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01582	-0.06537	54
WERE	'KNOLL 3 115 115KV'	75	-0.04955	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01517	-0.06472	55
WERE	'KNOLL 3 115 115KV'	75	-0.04955	WERE	'LAWRENCE ENERGY CENTER 230KV'	169.36	0.00973	-0.05928	60
WERE	'KNOLL 3 115 115KV'	75	-0.04955	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00029	-0.04984	71
WEPL	'A. M. MULLERGRN GENERATOR 115KV'	63	-0.09475	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	-0.06181	-0.03294	108

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 7 Deferred Expansion Plan Projects

Transmissi on Owner	Upgrade	Solution	Deferred Group	Assigned Upgrade E & C	Date Upgrade needed per AG study.	Date Upgrade Needed per Expansion Plan	Expansion Plan E & C Cost
OKGE	CONTINENTAL BLACKS - OSAGE 69KV CKT 1 Deferred	Rebuild & Reconductor 0.57 Miles of 477AS33 to 477 ACCC/TW	1	\$ -	6/1/2016	6/1/2016	\$ 200,000
OKGE	Sooner to Rose Hill 345 kV OKGE	New 345 kV line from Sooner to Oklahoma/Kansas	1	\$ 27,500,000	6/1/2016		
WERE	Sooner to Rose Hill 345 kV WERE	New 345 kV line from Oklahoma/Kansas Stateline to Rose Hill	1	\$ 27,500,000	6/1/2016		
Note: Within a deferral group, the expansion plan upgrade(s) that were deferred as a result of a requested upgrade are so noted.							