



*Aggregate Facility Study
SPP-2006-AG2-AFS-3
For Transmission Service
Requested by
Aggregate Transmission Customers*

SPP Engineering, SPP Tariff Studies

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1. Executive Summary

Pursuant to Attachment Z of the Southwest Power Pool Open Access Transmission Tariff (OATT), 1793 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 \$84,189,382. Additionally \$0 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 \$205,682.209. This is based on full allocation of levelized revenue requirements for upgrades to customers without consideration of base plan funding. AFS data table 3 reflects the allocation of upgrade costs to each request without potential base plan funding based on either the requested reservation period or the deferred reservation period with redispatch if applicable. Total

upgrade levelized revenue requirements for all transmission requests after consideration of potential base plan funding is \$105,324,789.

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, no third-party facilities were identified. Total engineering and construction cost estimates for required third-party facility upgrades are \$0.

The Transmission Provider will tender a Letter of Intent on Friday, December 1st, 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 December 16th, 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.

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 1793 MW of long-term transmission service has been restudied in this Aggregate Facility Study (AFS) with over \$84 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 though the reservation period of the new request, excluding depreciation, shall be assigned to the new request. These incremental expenses, excluding depreciation,

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

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

B. Third-Party Facilities

For third-party facilities listed in Table 3 and Table 5, the Transmission Customer is responsible for funding the necessary upgrades of these facilities per Section 21.1 of the Transmission Provider's OATT. In this AFS, 0 third-party facilities were identified. Total engineering and construction cost estimates for required third-party facility upgrades are \$0. 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 AEI, AMRN, and ENTR and a 2 % TDF cutoff was applied to MEC, NPPD, and OPPD. For voltage monitoring, a 0.02 per unit change in voltage must occur due to the transfer or modeling upgrades to be considered a valid limit to the transfer.

B. Model Development

SPP used thirteen seasonal models to study the aggregate transfers of 1793 MW over a variety of requested service periods. The SPP MDWG 2006 Series Cases Update 4 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 1793 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 exporting from an outside zone and exporting from the Lamar HVDC Tie. Scenario 4 includes transmission requests not already included in the SPP 2006 Series Cases flowing in a North to South direction with ERCOT importing and SPS importing from outside zones

and importing from the Lamar HVDC tie. 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** 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. Table 7 identifies deferred expansion plan projects that were replaced with requested upgrades at earlier dates.

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 without upgrading facilities. Annual ATC allocated to the Transmission Customer is determined by the least amount of allocated seasonal ATC within each year of a reservation period.

5. Conclusion

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

The Transmission Provider will tender a Letter of Intent on Friday, December 1st, 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 December 16th, 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	Deferred Stop Date	Start Date With Redispatch	Stop Date With Redispatch	Minimum Allocated ATC (MW) within reservation period	Season of Minimum Allocated ATC within reservation period
AEPM	AG2-2006-024	1086238	WFEC	CSWS	16	7/1/2007	7/1/2027	12/1/2008	12/1/2028	6/1/2008	6/1/2028	1,2	07SP
AEPM	AG2-2006-033	1087745	EES	CSWS	225	1/1/2007	1/1/2010	6/1/2008	6/2/2011	1/1/2007	1/1/2010	1,2	07SP
AEPM	AG2-2006-034	1087757	CSWS	CSWS	172	6/1/2008	6/1/2028	6/1/2009	6/1/2029	6/1/2009	6/1/2029	1,2	08SP
AFM	AG2-2006-031	1087085	AECI	OKGE	3	12/1/2006	12/1/2007						3 N/A
GSEC	AG2-2006-054	1090270	CSWS	CSWS	10	10/1/2006	10/1/2036	7/1/2009	7/1/2039				06WP
GSEC	AG2-2006-126	1090298	SPS	SPS	15	10/1/2007	10/1/2037						08SP
GSEC	AG2-2006-127	1090301	SPS	SPS	20	3/1/2007	3/1/2037	6/1/2008	6/2/2038	3/1/2007	3/1/2037	1,2	07SP
GSEC	AG2-2006-128	1090310	SPS	SPS	20	7/1/2007	7/1/2037	10/1/2009	10/1/2039	10/1/2009	10/1/2039	1,2	07SP
GSEC	AG2-2006-129	1090315	SPS	SPS	20	9/1/2007	9/1/2037	10/1/2009	10/1/2039	10/1/2009	10/1/2039	1,2	08SP
GSEC	AG2-2006-130	1090320	SPS	SPS	25	3/1/2011	3/1/2041						011SP
GSEC	AG2-2006-131	1090322	SPS	SPS	25	3/1/2009	3/1/2039						011SP
GSEC	AG2-2006-132	1090454	SPS	SPS	5	10/1/2006	10/1/2036	10/1/2009	10/1/2039	10/1/2009	10/1/2039	1,2	07SP
GSEC	AG2-2006-133	1090487	SPS	SPS	150	4/1/2007	4/1/2017	10/1/2009	10/2/2019	10/1/2009	10/2/2019	1,2	07SP
GSEC	AG2-2006-134	1090324	SPS	SPS	25	3/1/2013	3/1/2043						016SP
GSEC	AG2-2006-135	1090328	SPS	SPS	25	3/1/2016	3/1/2046						016SP
GSEC	AG2-2006-136	1090456	SPS	SPS	15	7/1/2007	7/1/2037	10/1/2009	10/1/2039	10/1/2009	10/1/2039	1,2	07SP
KEPC	AG2-2006-067	1090416	KCPL	WR	30	6/1/2010	6/1/2030	6/1/2011	6/1/2031	6/1/2010	6/1/2030	1,2	011SP
MIDW	AG2-2006-050	1090329	WR	WR	36	6/1/2010	6/1/2035	6/1/2011	5/31/2036	6/1/2010	6/1/2035	1,2	011SP
MIDW	AG2-2006-050	1090332	WR	WR	49	6/1/2010	6/1/2035	6/1/2011	5/31/2036	6/1/2010	6/1/2035	1,2	011SP
MIDW	AG2-2006-050	1090334	WR	WR	11	6/1/2010	6/1/2035	6/1/2011	5/31/2036	6/1/2010	6/1/2035	1,2	011SP
MIDW	AG2-2006-051	1090325	WR	WR	24	6/1/2008	6/1/2038	6/1/2011	5/31/2041	6/1/2008	6/1/2038	1,2	08SP
MIDW	AG2-2006-051	1090327	WR	WR	6	6/1/2008	6/1/2038	6/1/2011	5/31/2041	6/1/2008	6/1/2038	1,2	08SP
MIDW	AG2-2006-058	1090377	EES	WR	40	5/1/2010	5/1/2040						011SP
MIDW	AG2-2006-058	1090378	EES	WR	10	5/1/2010	5/1/2040						011SP
MIDW	AG2-2006-058	1090382	EES	WR	20	5/1/2010	5/1/2040						011SP
MIDW	AG2-2006-058	1090383	EES	WR	5	5/1/2010	5/1/2040						011SP
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	08WP
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	08WP
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	08WP
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	08WP
MIDW	AG2-2006-097	1090922	WR	WR	50	6/1/2008	6/1/2038	7/1/2009	7/1/2039	6/1/2008	6/1/2038	1,2	08SP
MIDW	AG2-2006-106	1090964	WR	WR	35	1/1/2007	1/1/2012	6/1/2011	5/31/2016	10/1/2007	9/30/2012	1,2	06WP
MIDW	AG2-2006-106	1090965	WR	WR	10	1/1/2007	1/1/2012	6/1/2011	5/31/2016	10/1/2007	9/30/2012	1,2	06WP
MIDW	AG2-2006-107	1090817	WR	WR	25	6/1/2007	6/1/2011	6/1/2011	6/1/2021	10/1/2007	9/30/2017	1,2	07SP
MIDW	AG2-2006-108	1090826	WR	WR	40	6/1/2008	6/1/2028	6/1/2011	6/1/2031	6/1/2008	6/1/2028	1,2	08SP
MIDW	AG2-2006-108	1090829	WR	WR	15	6/1/2008	6/1/2028	6/1/2011	6/1/2031				011SP
MIDW	AG2-2006-108	1090844	WR	WR	10	6/1/2008	6/1/2028	6/1/2011	6/1/2031	6/1/2008	6/1/2028	1,2	08SP
MIDW	AG2-2006-108	1090854	WR	WR	6	6/1/2008	6/1/2018	6/1/2011	6/1/2021	6/1/2008	6/1/2018	1,2	08SP
MIDW	AG2-2006-108	1091057	WR	WR	10	6/1/2008	6/1/2018	6/1/2011	6/1/2021	6/1/2008	6/1/2018	1,2	08SP
OGF	AG2-2006-035	1087908	OKGE	EES	10	12/1/2006	12/1/2011	10/1/2009	10/1/2014				08SP
SPSM	AG2-2006-074	1090699	WPEK	KCPL	50	10/1/2006	10/1/2007	2/1/2009	2/1/2010				06WP
SPSM	AG2-2006-124	1090705	WPEK	KCPL	50	10/1/2006	10/1/2007	2/1/2009	2/1/2010				06WP
UCU	AG2-2006-006	1052923	KCPL	MPS	160	6/1/2010	6/1/2030						011SP
WRGS	AG2-2006-016	1076158	KCPL	AMRN	20	6/1/2010	6/1/2015	6/1/2011	5/31/2016				011WP
WRGS	AG2-2006-030	1086655	OKGE	WR	225	10/1/2006	10/1/2026	7/1/2009	7/1/2029	10/1/2006	10/1/2026	1,2	011SP

Note 1: Disregard Redispatch shown in Table 5 for limitations identified earlier than the start date with redispatch with the exception of limitations identified in the 2006 Fall Peak, 2007 Spring Peak, 2007 April Minimum, 2007 Summer Shoulder, and 2007 Fall Peak

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.

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

Customer	Study Number	Reservation	Engineering and Construction Cost of Upgrades Allocated to Customer for Revenue Requirements	¹ Letter of Credit Amount Required	² Potential Base Plan Engineering and Construction Funding Allowable	³ Additional Engineering and Construction Cost for 3rd Party Upgrades	³ Total Revenue Requirements for Assigned Upgrades over term of reservation without potential base plan funding allocation	³ 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	AG2-2006-024	1086238	\$ 4,053,608	\$ 3,850,000	\$ 360,000	\$ -	\$ 9,678,003	\$ 8,812,965	\$ -	\$ 8,812,965
AEPM	AG2-2006-033	1087745	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Sch 9 charges
AEPM	AG2-2006-034	1087757	\$ 2,746,392	\$ -	\$ 2,746,392	\$ -	\$ 8,091,637	\$ -	\$ -	Sch 9 charges
APM	AG2-2006-031	1087085	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Sch 9 charges
GSEC	AG2-2006-054	1090270	\$ 194,888	\$ 264,888	\$ -	\$ -	\$ 890,432	\$ 890,432	\$ -	\$ 890,432
GSEC	AG2-2006-126	1090298	\$ 2,161,916	\$ 2,161,916	\$ -	\$ -	\$ 7,511,404	\$ 7,511,404	\$ -	\$ 7,511,404
GSEC	AG2-2006-127	1090301	\$ 1,485,614	\$ 1,485,614	\$ -	\$ -	\$ 4,676,405	\$ 4,676,405	\$ -	\$ 4,676,405
GSEC	AG2-2006-128	1090310	\$ 3,822,496	\$ 3,822,496	\$ -	\$ -	\$ 18,198,088	\$ 18,198,088	\$ -	\$ 18,198,088
GSEC	AG2-2006-129	1090315	\$ 2,562,648	\$ 2,562,648	\$ -	\$ -	\$ 11,951,372	\$ 11,951,372	\$ -	\$ 11,951,372
GSEC	AG2-2006-130	1090320	\$ 26,870	\$ 26,870	\$ -	\$ -	\$ 145,502	\$ 145,502	\$ -	\$ 145,502
GSEC	AG2-2006-131	1090322	\$ 16,537	\$ 16,537	\$ -	\$ -	\$ 78,841	\$ 78,841	\$ -	\$ 78,841
GSEC	AG2-2006-134	1090324	\$ 42,891	\$ 42,891	\$ -	\$ -	\$ 273,216	\$ 273,216	\$ -	\$ 273,216
GSEC	AG2-2006-135	1090328	\$ 42,891	\$ 42,891	\$ -	\$ -	\$ 347,742	\$ 347,742	\$ -	\$ 347,742
GSEC	AG2-2006-132	1090454	\$ 184,503	\$ 184,503	\$ -	\$ -	\$ 860,462	\$ 860,462	\$ -	\$ 860,462
GSEC	AG2-2006-136	1090456	\$ 2,193,767	\$ 2,193,767	\$ -	\$ -	\$ 10,236,567	\$ 10,236,567	\$ -	\$ 10,236,567
GSEC	AG2-2006-133	1090487	\$ 4,000,600	\$ 4,000,600	\$ 4,000,600	\$ -	\$ 9,901,739	\$ -	\$ -	Sch 9 charges
KEPC	AG2-2006-067	1090416	\$ 1,074,370	\$ 1,084,201	\$ 1,074,370	\$ -	\$ 3,404,304	\$ -	\$ -	Sch 9 charges
MIDW	AG2-2006-051	1090325	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Sch 9 charges
MIDW	AG2-2006-051	1090327	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Sch 9 charges
MIDW	AG2-2006-050	1090329	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Sch 9 charges
MIDW	AG2-2006-050	1090332	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Sch 9 charges
MIDW	AG2-2006-050	1090334	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Sch 9 charges
MIDW	AG2-2006-058	1090377	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Sch 9 charges
MIDW	AG2-2006-058	1090378	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Sch 9 charges
MIDW	AG2-2006-058	1090382	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Sch 9 charges
MIDW	AG2-2006-058	1090383	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Sch 9 charges
MIDW	AG2-2006-107	1090817	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Sch 9 charges
MIDW	AG2-2006-108	1090826	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Sch 9 charges
MIDW	AG2-2006-108	1090829	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Sch 9 charges
MIDW	AG2-2006-108	1090844	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Sch 9 charges
MIDW	AG2-2006-108	1090854	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	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	AG2-2006-097	1090922	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Sch 9 charges
MIDW	AG2-2006-106	1090964	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Sch 9 charges
MIDW	AG2-2006-106	1090965	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Sch 9 charges
MIDW	AG2-2006-108	1091057	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Sch 9 charges

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

OGE	AG2-2006-035	1087908	\$ 1,082,331	\$ -	\$ -	\$ -	\$ 2,281,706	\$ 2,281,706	\$ 540,000	\$ 2,281,706
SPSM	AG2-2006-074	1090699	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 528,000	\$ 528,000
SPSM	AG2-2006-124	1090705	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 528,000	\$ 528,000
UCU	AG2-2006-006	1052923	\$ 3,346,041	\$ 3,346,041	\$ -	\$ -	\$ 13,170,017	\$ 13,170,017	\$ 61,862,400	\$ 61,862,400
WRGS	AG2-2006-016	1076158	\$ 362,418	\$ 370,900	\$ -	\$ -	\$ 905,121	\$ 677,316	\$ 1,080,000	\$ 1,080,000
WRGS	AG2-2006-030	1086655	\$ 54,788,600	\$ 27,133,679	\$ 40,500,000	\$ -	\$ 103,079,652	\$ 25,212,755	\$ -	\$ 25,212,755
Totals			\$ 84,189,382				\$ 205,682,209	\$ 105,324,789		

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 are based upon deferred end dates if applicable. Deferred dates are based upon customer's choice to pursue redispatch. Achievable Base Plan Avoided Revenue Requirements in the case of a Base Plan upgrade being displaced or deferred by an earlier in service date for a Requested Upgrade shall be determined per Attachment J, Section VII.C methodology. Assumption of a 40 year service life is utilized for Base Plan funded projects. A present worth analysis of revenue requirements on a common year basis between the Base Plan and Requested Upgrades was performed to determine avoided Base Plan revenue requirements due to the displacement or deferral of the Base Plan upgrade by the Requested Upgrade. The difference in present worth between the Base Plan and Requested Upgrades is assigned to the transmission requests impacting this upgrade based on the displacement or deferral.

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.

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

Customer Study Number
 AEPM AG2-2006-024

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date 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	1086238	WFEC	CSWS	16	7/1/2007	7/1/2027	12/1/2008	12/1/2028	\$ 360,000	\$ -	\$ 4,103,608	\$ 9,678,003
									\$ 360,000	\$ -	\$ 4,103,608	\$ 9,678,003

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1086238	FT SUPPLY - WOODWARD 69KV CKT 1	10/1/2007	2/1/2009	12/1/2008	Yes	\$ 3,800,000	\$ 3,800,000	\$ 8,989,871
	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	6/1/2008	6/1/2008			\$ 50,000	\$ 50,000	\$ -
	SOUTHWEST SHREVEPORT (SW SHV 1) 345/138/13.8KV TRANSFORMER CKT 1	6/1/2011	6/1/2011			\$ 126,805	\$ 1,500,000	\$ 344,068
	SOUTHWEST SHREVEPORT (SW SHV 2) 345/138/13.8KV TRANSFORMER CKT 2	6/1/2011	6/1/2011			\$ 126,803	\$ 1,500,000	\$ 344,063
Total						\$ 4,103,608	\$ 6,850,000	\$ 9,678,003

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
1086238	ALUMAX TAP - NORTHWEST TEXARKANA 138KV CKT 1	6/1/2007	6/1/2008		Yes
	ALVA - KNOBHILL 69KV CKT 1	6/1/2008	6/1/2008		
	LINWOOD - MCWILLIE STREET 138KV CKT 1	6/1/2007	6/1/2008		Yes
	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 1	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		
	WOODWARD - WOODWARD 69KV CKT 1	6/1/2007	10/1/2008		Yes

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1086238	FPL SWITCH - MOORELAND 138KV CKT 1 OKGE	6/1/2008	4/1/2008		No
	FT SUPPLY 138/69KV TRANSFORMER CKT 1	12/1/2006	6/1/2008		Yes
	HAMON BUTLER - MOREWOOD 69KV CKT 1	6/1/2006	4/1/2008		Yes
	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1	6/1/2006	6/1/2008		No

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1086238	ALUMAX TAP - BANN 138KV CKT 1	6/1/2007	6/1/2008		Yes
	FT SUPPLY 138/69KV TRANSFORMER CKT 1	6/1/2007	6/1/2008		Yes
	HAMON BUTLER - MOREWOOD 69KV CKT 1	6/1/2007	4/1/2008		Yes

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	1087745	EES	CSWS	225		1/1/2010	6/1/2008	6/2/2011	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

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

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1087745	FULTON - HOPE 115KV CKT 1	6/1/2010	6/1/2010		

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	6/1/2009	6/1/2029	\$ 2,746,392	\$ -	\$ 2,746,392	\$ 8,091,637
									\$ 2,746,392	\$ -	\$ 2,746,392	\$ 8,091,637

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	6/1/2011	6/1/2011			\$ 1,373,195	\$ 1,500,000	\$ 4,045,815
	SOUTHWEST SHREVEPORT (SW SHV 2) 345/138/13.8KV TRANSFORMER CKT 2	6/1/2011	6/1/2011			\$ 1,373,197	\$ 1,500,000	\$ 4,045,821
	Total					\$ 2,746,392	\$ 3,000,000	\$ 8,091,637

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1087757	ALUMAX TAP - NORTHWEST TEXARKANA 138KV CKT 1	6/1/2007	6/1/2008		No
	CHAMBER SPRINGS - TONTITOWN 161KV CKT 1	12/1/2008	6/1/2007		
	Chamber Springs - Tontitown 345 kv	6/1/2008	6/1/2009		No
	LINWOOD - MCWILLIE STREET 138KV CKT 1	6/1/2007	6/1/2008		No
	Siloam Springs - South Fayetteville 161 kv	6/1/2016	6/1/2016		

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	36TH & LEWIS - 52ND & DELAWARE TAP 138KV CKT 1	6/1/2016	6/1/2016		
	ARCADIA - REDBUD 345 KV CKT 1	6/1/2006	6/1/2006		
	ARCADIA - REDBUD 345 KV CKT 2	6/1/2006	6/1/2006		
	BELINE - EXPLORER GLENPOOL 138KV CKT 1	6/1/2009	6/1/2009		
	EAST CENTRAL HENRYETTA - OKMULGEE 138KV CKT 1	12/1/2006	12/1/2006		
	EAST CENTRAL HENRYETTA - WELEETKA 138KV CKT 1	6/1/2007	6/1/2007		
	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		

Customer Study Number
AFM AG2-2006-031

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
AFM	1087085	AECI	OKGE	3	12/1/2006	12/1/2007	12/1/2006	12/1/2007	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1087085	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
1087085	ARCADIA - REDBUD 345 KV CKT 1	6/1/2006	6/1/2006		
	ARCADIA - REDBUD 345 KV CKT 2	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
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	\$ -	\$ -	\$ 264,888	\$ 890,432	
										\$ -	\$ -	\$ 264,888	\$ 890,432

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	10/1/2008	10/1/2009			\$ 70,000	\$ 70,000	\$ -
	GSEC Midway Interconnection #2	6/1/2011	6/1/2011			\$ -	\$ -	\$ -
	Hart Interchange 115/69 kv	6/1/2011	6/1/2011			\$ 433	\$ 3,500,000	\$ 1,731
	Hitchland 345 and 115 kv Interchange	6/1/2008	10/1/2009	No		\$ 167,299	\$ 7,948,945	\$ 764,591
	Tex-Hitchland-Sherman Tap 115 kv ckt	6/1/2008	10/1/2009	No		\$ 27,156	\$ 1,290,279	\$ 124,110
Total						\$ 264,888	\$ 12,809,223	\$ 890,432

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	CLINTON CITY - THOMAS TAP 69KV CKT 1	6/1/2016	6/1/2016		
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	6/1/2013	6/1/2013		
	ELK CITY - ELK CITY 69KV CKT 1 AEPW	6/1/2007	6/1/2007		
	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 - Roosevelt 345KV	6/1/2013	6/1/2013		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	Pringle - Etter 115 kv	6/1/2012	6/1/2012		
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2013	6/1/2013		
	SNYDER AEPW- SNYDER WFEC INTERCONNECTION	6/1/2015	6/1/2015		
	Speerville - Mooreland 345 kv SLUNC	6/1/2015	6/1/2015		
	Speerville - Mooreland 345 kv WFEC	6/1/2015	6/1/2015		
	Stateline Project	6/1/2010	6/1/2010		
	THOMAS TAP - WEATHERFORD 69KV CKT 1	6/1/2016	6/1/2016		
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	WEATHERFORD SOUTHEAST (WTH-SE) 138/69/13.8KV TRANSFORMER CKT 1	6/1/2015	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
1090270	36TH & LEWIS - 52ND & DELAWARE TAP 138KV CKT 1	6/1/2016	6/1/2016		
	ARCADIA - REDBUD 345 KV CKT 1	6/1/2008	6/1/2008		
	ARCADIA - REDBUD 345 KV CKT 2	6/1/2008	6/1/2008		
	BELINE - EXPLORER GLENPOOL 138KV CKT 1	6/1/2009	6/1/2009		
	CACHE - SNYDER 138KV CKT 1	6/1/2008	6/1/2008		
	EAST CENTRAL HENRYETTA - OKMULGEE 138KV CKT 1	12/1/2006	12/1/2006		
	EAST CENTRAL HENRYETTA - WELEETKA 138KV CKT 1	6/1/2007	6/1/2007		
	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		
	HAMON BUTLER - MOREWOOD 69KV CKT 1	6/1/2006	4/1/2008	No	

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1090270	HAMON BUTLER - MOREWOOD 69KV CKT 1	6/1/2007	4/1/2008	No	
	WICHITA - RENO 345KV	10/1/2007	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
GSEC AG2-2006-126

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	1090298	SPS	SPS	15	10/1/2007	10/1/2037	10/1/2007	10/1/2037	\$ -	\$ -	\$ 2,161,916	\$ 7,511,404	
											\$ -	\$ 2,161,916	\$ 7,511,404

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements	
1090298	BAILEY COUNTY SUNNYSIDE Interconnection	10/1/2007	10/1/2007			\$ -	\$ -	\$ -	
	Hart Interchange 115/69 kV	6/1/2011	6/1/2011			\$ 2,161,916	\$ 3,500,000	\$ 7,511,404	
						Total	\$ 2,161,916	\$ 3,500,000	\$ 7,511,404

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1090298	CROSBY 115KV	6/1/2016	6/1/2016		
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	6/1/2013	6/1/2013		
	HART 69 kV Capacitor	6/1/2008	6/1/2008		
	Hart Interchange 230/115 kV	6/1/2011	6/1/2011		
	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 - Roosevelt 345KV	6/1/2013	6/1/2013		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2013	6/1/2013		
	Speanville - Mooreland 345 kV SLUNC	6/1/2015	6/1/2015		
	Speanville - Mooreland 345 kV WFEC	6/1/2015	6/1/2015		
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		

Customer Study Number
GSEC AG2-2006-127

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	1090301	SPS	SPS	20	3/1/2007	3/1/2037	6/1/2008	6/2/2038	\$ -	\$ -	\$ 1,485,614	\$ 4,676,405	
											\$ -	\$ 1,485,614	\$ 4,676,405

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements	
1090301	Bailey County - Curry County 115 kV Displacement	6/1/2011	6/1/2011			\$ 1,386,187	\$ 1,386,187	\$ 4,346,846	
	BAILEY COUNTY PROGRESS Interconnection #1	3/1/2007	3/1/2007			\$ -	\$ -	\$ -	
	BAILEY COUNTY PROGRESS Interconnection #2	6/1/2011	6/1/2011			\$ -	\$ -	\$ -	
	Hart Interchange 115/69 kV	6/1/2011	6/1/2011			\$ 99,427	\$ 3,500,000	\$ 329,559	
						Total	\$ 1,485,614	\$ 4,886,187	\$ 4,676,405

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1090301	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	6/1/2013	6/1/2013		
	CURRY COUNTY INTERCHANGE 115/69KV TRANSFORMER CKT 3	6/1/2011	6/1/2011		
	Hart Interchange 230/115 kV	6/1/2011	6/1/2011		
	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		
	MUSTANG STATION 230/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2008		Yes
	Potter - Roosevelt 345KV	6/1/2013	6/1/2013		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2013	6/1/2013		
	Speanville - Mooreland 345 kV SLUNC	6/1/2015	6/1/2015		
	Speanville - Mooreland 345 kV WFEC	6/1/2015	6/1/2015		
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		

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

Customer Study Number
GSEC AG2-2006-128

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date 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	1090310	SPS	SPS	20	7/1/2007	7/1/2037	10/1/2009	10/1/2039	\$ -	\$ -	\$ 7,319,359	\$ 16,918,074
									\$ -	\$ -	\$ 7,319,359	\$ 16,918,074

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1090310	Hitchland 345 and 115 kV Interchange	6/1/2008	10/1/2009		No	\$ 1,768,472	\$ 7,948,945	\$ 8,247,588
	HOLCOMB - PLYMELL - PIONEER TAP 115KV CKT 1 Displacement	6/1/2007	6/1/2009		Yes	\$ 3,763,827	\$ 4,360,000	\$ -
	SOUTH PLAINS WOLFFORTH Interconnection	3/1/2011	3/1/2011			\$ -	\$ -	\$ -
	Tex-Hitchland-Sherman Tap 115 kV ckt	6/1/2008	10/1/2009		No	\$ 287,060	\$ 1,290,279	\$ 1,338,754
	TRI COUNTY PRAIRIE Interconnection #1	7/1/2007	7/1/2007			\$ -	\$ -	\$ -
	TRI COUNTY PRAIRIE Interconnection #2	7/1/2007	6/1/2008		No	\$ 1,500,000	\$ 1,500,000	\$ 7,331,732
Total						\$ 7,319,359	\$ 15,099,223	\$ 16,918,074

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1090310	BC-EARTH INTERCHANGE 115KV	6/1/2016	6/1/2016		
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	6/1/2013	6/1/2013		
	Hart Interchange 230/115 kV	6/1/2011	6/1/2011		
	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 - Roosevelt 345KV	6/1/2013	6/1/2013		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	Pringle - Etter 115 kV	6/1/2012	6/1/2012		
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2013	6/1/2013		
	Speerville - Mooreland 345 kV SLUNC	6/1/2015	6/1/2015		
	Speerville - 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
1090310	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
	WICHITA - RENO 345KV	10/1/2007	7/1/2009		Yes

Customer Study Number
GSEC AG2-2006-129

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	1090315	SPS	SPS	20	9/1/2007	9/1/2037	10/1/2009	10/1/2039	\$ -	\$ -	\$ 2,562,649	\$ 11,951,372
									\$ -	\$ -	\$ 2,562,649	\$ 11,951,372

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1090315	Hitchland 345 and 115 kV Interchange	6/1/2008	10/1/2009		No	\$ 2,204,769	\$ 7,948,945	\$ 10,282,337
	RITA BLANCA RITA (Sherman) Interconnection	9/1/2007	9/1/2007			\$ -	\$ -	\$ -
	SOUTH PLAINS WOLFFORTH Interconnection	3/1/2011	3/1/2011			\$ -	\$ -	\$ -
	Tex-Hitchland-Sherman Tap 115 kV ckt	6/1/2008	10/1/2009		No	\$ 357,880	\$ 1,290,279	\$ 1,669,035
Total						\$ 2,562,649	\$ 9,239,223	\$ 11,951,372

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1090315	BC-EARTH INTERCHANGE 115KV	6/1/2016	6/1/2016		
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	6/1/2013	6/1/2013		
	Hart Interchange 230/115 kV	6/1/2011	6/1/2011		
	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 - Roosevelt 345KV	6/1/2013	6/1/2013		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	Pringle - Etter 115 kV	6/1/2012	6/1/2012		
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2013	6/1/2013		
	Speerville - Mooreland 345 kV SLUNC	6/1/2015	6/1/2015		
	Speerville - Mooreland 345 kV WFEC	6/1/2015	6/1/2015		
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		

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

Customer Study Number
GSEC AG2-2006-130

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	1090320	SPS	SPS	25	3/1/2011	3/1/2041	3/1/2011	3/1/2041	\$ -	\$ -	\$ 26,870	\$ 145,502	
										\$ -	\$ -	\$ 26,870	\$ 145,502

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1090320	Hart Interchange 115/69 kV	6/1/2011	6/1/2011			\$ 4,808	\$ 3,500,000	\$ 21,980
	SOUTH PLAINS WOLFFORTH Interconnection	3/1/2011	3/1/2011			\$ -	\$ -	\$ -
	YOKUM COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1 Displacement	6/1/2007	6/1/2008		No	\$ 22,062	\$ 464,012	\$ 123,522
Total						\$ 26,870	\$ 3,964,012	\$ 145,502

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1090320	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	6/1/2013	6/1/2013		
	Hart Interchange 230/115 kV	6/1/2011	6/1/2011		
	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 - Roosevelt 345KV	6/1/2013	6/1/2013		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2013	6/1/2013		
	Seven Rivers to Pecos to Potosi Junction 230KV	6/1/2007	6/1/2009		No
	Speanville - Mooreland 345 kV SUNC	6/1/2015	6/1/2015		
	Speanville - Mooreland 345 kV WFEC	6/1/2015	6/1/2015		
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		

Customer Study Number
GSEC AG2-2006-131

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	1090322	SPS	SPS	25	3/1/2009	3/1/2039	3/1/2009	3/1/2039	\$ -	\$ -	\$ 16,537	\$ 78,841	
										\$ -	\$ -	\$ 16,537	\$ 78,841

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1090322	SOUTH PLAINS ALCOVE Interconnection	3/1/2009	3/1/2009			\$ -	\$ -	\$ -
	YOKUM COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1 Displacement	6/1/2007	6/1/2008		No	\$ 16,537	\$ 464,012	\$ 78,841
Total						\$ 16,537	\$ 464,012	\$ 78,841

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1090322	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	6/1/2013	6/1/2013		
	Hart Interchange 230/115 kV	6/1/2011	6/1/2011		
	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 - Roosevelt 345KV	6/1/2013	6/1/2013		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2013	6/1/2013		
	Speanville - Mooreland 345 kV SUNC	6/1/2015	6/1/2015		
	Speanville - Mooreland 345 kV WFEC	6/1/2015	6/1/2015		
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		

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

Customer Study Number
GSEC AG2-2006-132

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date 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	1090454	SPS	SPS	5	10/1/2006	10/1/2036	10/1/2009	10/1/2039	\$ -	\$ -	\$ 184,502	\$ 860,462	
										\$ -	\$ -	\$ 184,502	\$ 860,462

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1090454	Hitchland 345 and 115 kV Interchange	6/1/2008	10/1/2009		No	\$ 158,736	\$ 7,948,945	\$ 740,295
	MOORE COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1 Redispatch	4/1/2007	6/1/2007		Yes	\$ -	\$ -	\$ -
	RITA BLANCA Masterson (EXELL) Interconnection	10/1/2006	10/1/2006			\$ -	\$ -	\$ -
	SOUTH PLAINS WOLFFORTH Interconnection	3/1/2011	3/1/2011			\$ -	\$ -	\$ -
	Tex-Hitchland-Sherman Tap 115 kV ckt	6/1/2008	10/1/2009		No	\$ 25,766	\$ 1,290,279	\$ 120,166
Total						\$ 184,502	\$ 9,239,223	\$ 860,462

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1090454	BC-EARTH INTERCHANGE 115KV	6/1/2016	6/1/2016		
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	6/1/2013	6/1/2013		
	Hart Interchange 230/115 kV	6/1/2011	6/1/2011		
	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		
	MUSTANG STATION 230/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2008		Yes
	Potter - Roosevelt 345KV	6/1/2013	6/1/2013		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	Pringle - Etter 115 kV	6/1/2012	6/1/2012		
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2013	6/1/2013		
	Speenville - Mooreland 345 kV SLUNC	6/1/2015	6/1/2015		
	Speenville - Mooreland 345 kV WFEC	6/1/2015	6/1/2015		
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		

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

Customer Study Number
GSEC AG2-2006-133

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date 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	1090487	SPS	SPS	150	4/1/2007	4/1/2017	10/1/2009	10/2/2019	\$ 4,000,600	\$ -	\$ 4,000,600	\$ 9,901,739
									\$ 4,000,600	\$ -	\$ 4,000,600	\$ 9,901,739

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1090487	Hart Interchange 115/69 kV	6/1/2011	6/1/2011			\$ 1,218,800	\$ 3,500,000	\$ 2,731,973
	Hitchland 345 and 115 kV Interchange	6/1/2008	10/1/2009		No	\$ 1,798,647	\$ 7,948,945	\$ 4,607,874
	MOORE COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1 Redispatch	4/1/2007	6/1/2007		Yes	\$ -	\$ -	\$ -
	Mustang-San Andr-Amerada Hess 115KV Displacement	4/1/2007	6/1/2008		Yes	\$ 336,948	\$ 336,948	\$ 841,453
	SOUTH PLAINS WOLFFORTH Interconnection	3/1/2011	3/1/2011			\$ -	\$ -	\$ -
	Tex-Hitchland-Sherman Tap 115 kV ckt	6/1/2008	10/1/2009		No	\$ 291,958	\$ 1,290,279	\$ 747,953
	YOAKUM COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1 Displacement	6/1/2007	6/1/2008		Yes	\$ 354,247	\$ 464,012	\$ 972,486
	Total					\$ 4,000,600	\$ 13,540,183	\$ 9,901,739

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1090487	BC-EARTH INTERCHANGE 115KV	6/1/2016	6/1/2016		
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	6/1/2013	6/1/2013		
	Hart Interchange 230/115 kV	6/1/2011	6/1/2011		
	KRESS INTERCHANGE 115/69KV TRANSFORMERS	6/1/2007	6/1/2007		
	Mooreland - Potter 345 kV SFS	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		
	MUSTANG STATION 230/115KV TRANSFORMER CKT 1	4/1/2007	6/1/2008		Yes
	Potter - Roosevelt 345KV	6/1/2013	6/1/2013		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	Pringle - Etter 115 kV	6/1/2012	6/1/2012		
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2013	6/1/2013		
	Seven Rivers to Pecos to Potash Junction 230KV	6/1/2007	6/1/2009		Yes
	Speerville - Mooreland 345 kV SUNC	6/1/2015	6/1/2015		
	Speerville - Mooreland 345 kV WFEC	6/1/2015	6/1/2015		
	TUCO INTERCHANGE 115/69KV TRANSFORMER	6/1/2007	6/1/2007		
	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
1090487	TERRY COUNTY INTERCHANGE 115/69KV TRANSFORMERS	6/1/2007	6/1/2007		

Customer Study Number
GSEC AG2-2006-134

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	1090324	SPS	SPS	25	3/1/2013	3/1/2043	3/1/2013	3/1/2043	\$ -	\$ -	\$ 42,891	\$ 273,216
									\$ -	\$ -	\$ 42,891	\$ 273,216

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1090324	Hart Interchange 115/69 kV	6/1/2011	6/1/2011			\$ 7,308	\$ 3,500,000	\$ 39,237
	SOUTH PLAINS MILWAUKEE and SLIDE Interconnection	3/1/2013	3/1/2013			\$ -	\$ -	\$ -
	YOAKUM COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1 Displacement	6/1/2007	6/1/2008		No	\$ 35,583	\$ 464,012	\$ 233,978
	Total					\$ 42,891	\$ 3,964,012	\$ 273,216

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1090324	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	6/1/2013	6/1/2013		
	Hart Interchange 230/115 kV	6/1/2011	6/1/2011		
	Mooreland - Potter 345 kV SFS	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 - Roosevelt 345KV	6/1/2013	6/1/2013		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2013	6/1/2013		
	Seven Rivers to Pecos to Potash Junction 230KV	6/1/2007	6/1/2009		No
	Speerville - Mooreland 345 kV SUNC	6/1/2015	6/1/2015		
	Speerville - Mooreland 345 kV WFEC	6/1/2015	6/1/2015		
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		

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

Customer Study Number
GSEC AG2-2006-135

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	1090328	SPS	SPS	25	3/1/2016	3/1/2046	3/1/2016	3/1/2046	\$ -	\$ -	\$ 42,891	\$ 347,742	
										\$ -	\$ -	\$ 42,891	\$ 347,742

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1090328	Hart Interchange 115/69 kV	6/1/2011	6/1/2011			\$ 7,308	\$ 3,500,000	\$ 49,940
	SOUTH PLAINS MILWAUKEE and SLIDE Interconnection	3/1/2013	3/1/2013			\$ -	\$ -	\$ -
	YOKUM COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1 Displacement	6/1/2007	6/1/2008		No	\$ 35,583	\$ 464,012	\$ 297,801
Total						\$ 42,891	\$ 3,964,012	\$ 347,742

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1090328	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	6/1/2013	6/1/2013		
	Hart Interchange 230/115 kV	6/1/2011	6/1/2011		
	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 - Roosevelt 345kV	6/1/2013	6/1/2013		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2013	6/1/2013		
	Seven Rivers to Pecos to Potosi Junction 230kV	6/1/2007	6/1/2009		No
	Speerville - Mooreland 345 kV SLUNC	6/1/2015	6/1/2015		
	Speerville - Mooreland 345 kV WFEC	6/1/2015	6/1/2015		
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		

Customer Study Number
GSEC AG2-2006-136

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	1090456	SPS	SPS	15	7/1/2007	7/1/2037	10/1/2009	10/1/2039	\$ -	\$ -	\$ 2,747,654	\$ 10,033,818	
										\$ -	\$ -	\$ 2,747,654	\$ 10,033,818

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1090456	Hitchland 345 and 115 kV Interchange	6/1/2008	10/1/2009		No	\$ 1,851,022	\$ 7,948,945	\$ 8,632,573
	HOLCOMB - PLYMELL - PIONEER TAP 115KV CKT 1 Displacement	6/1/2007	6/1/2009		Yes	\$ 596,173	\$ 4,360,000	\$ -
	TRI COUNTY HILLER Interconnection	7/1/2007	7/1/2007			\$ -	\$ -	\$ -
	Tex-Hitchland-Sherman Tap 115 kV ckt	6/1/2008	10/1/2009		No	\$ 300,459	\$ 1,290,279	\$ 1,401,245
Total						\$ 2,747,654	\$ 13,599,223	\$ 10,033,818

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1090456	BC-EARTH INTERCHANGE 115KV	6/1/2016	6/1/2016		
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	6/1/2013	6/1/2013		
	Hart Interchange 230/115 kV	6/1/2011	6/1/2011		
	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 - Roosevelt 345kV	6/1/2013	6/1/2013		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	Pinole - Elter 115 kV	6/1/2012	6/1/2012		
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2013	6/1/2013		
	Speerville - Mooreland 345 kV SLUNC	6/1/2015	6/1/2015		
	Speerville - Mooreland 345 kV WFEC	6/1/2015	6/1/2015		
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		

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	6/1/2011	6/1/2031	\$ 1,074,370	\$ -	\$ 1,084,200	\$ 3,404,304
									\$ 1,074,370	\$ -	\$ 1,084,200	\$ 3,404,304

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			\$ 5,241	\$ 45,996	\$ 16,901
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE Displacement	6/1/2011	6/1/2011			\$ 12,095	\$ 106,142	\$ 40,285
	CRESWELL (CRESWLX) 138/69/13.2KV TRANSFORMER Displacement	6/1/2011	6/1/2011			\$ -	\$ -	\$ -
	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 415,344	\$ 4,123,803	\$ 1,634,794
	PLATTE CITY - POPE 161 161KV CKT 1	12/1/2011	12/1/2011			\$ 9,831	\$ 100,000	\$ -
	ROSE HILL (ROSEHLX) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	6/1/2008	6/1/2008			\$ 63,207	\$ 531,156	\$ 249,665
	Sooner to Rose Hill 345 kV OKGE	6/1/2016	6/1/2016			\$ 289,241	\$ 27,382,166	\$ 759,728
	Sooner to Rose Hill 345 kV WERE	6/1/2016	6/1/2016			\$ 289,241	\$ 27,382,166	\$ 702,930
	Total					\$ 1,084,200	\$ 59,671,429	\$ 3,404,304

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	12/1/2008	6/1/2011		Yes
	Evans - Grant - Chisolm Rebuild and Conversion Project	6/1/2010	6/1/2010		
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2016	6/1/2016		
	STRANGER CREEK TRANSFORMER CKT 2	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
1090416	COLLEGE - CRAIG 161KV CKT 1	6/1/2016	6/1/2016		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1090416	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2007		
	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
	WICHITA - RENO 345KV	10/1/2007	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
 MIDW AG2-2006-050

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date Without Redispatch	Deferred Stop Date Without Redispatch	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
MIDW	1090329	WR	WR	36	6/1/2010	6/1/2035	6/1/2011	5/31/2036	\$ -	\$ -	\$ -	\$ -
MIDW	1090332	WR	WR	49	6/1/2010	6/1/2035	6/1/2011	5/31/2036	\$ -	\$ -	\$ -	\$ -
MIDW	1090334	WR	WR	11	6/1/2010	6/1/2035	6/1/2011	5/31/2036	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1090329	None					\$ -	\$ -	\$ -
1090332	None					\$ -	\$ -	\$ -
1090334	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
1090329	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	12/1/2008	6/1/2011		Yes
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	12/1/2011	6/1/2011		
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	6/1/2013	6/1/2013		
	HAYS PLANT - SOUTH HAYS 115KV CKT 1	6/1/2007	6/1/2008	10/1/2007	No
	HAYS PLANT - VINE STREET 115KV CKT 1	6/1/2011	6/1/2011		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2016	6/1/2016		
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2016	6/1/2016		
	KNOLL - VINE STREET 115KV CKT 1	6/1/2016	6/1/2016		
	Mooreland - Potter 345 kV SPS	6/1/2015	6/1/2015		
	Mooreland - Potter 345 kV WFEC	6/1/2015	6/1/2015		
	Mooreland 345/138 kV Transformer	6/1/2015	6/1/2015		
	Potter - Roosevelt 345KV	6/1/2013	6/1/2013		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2013	6/1/2013		
	Speanville - Mooreland 345 kV SLUNC	6/1/2015	6/1/2015		
	Speanville - Mooreland 345 kV WFEC	6/1/2015	6/1/2015		
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
1090332	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	12/1/2008	6/1/2011		Yes
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	12/1/2011	6/1/2011		
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	6/1/2013	6/1/2013		
	HAYS PLANT - SOUTH HAYS 115KV CKT 1	6/1/2007	6/1/2008	10/1/2007	No
	HAYS PLANT - VINE STREET 115KV CKT 1	6/1/2011	6/1/2011		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2016	6/1/2016		
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2016	6/1/2016		
	KNOLL - VINE STREET 115KV CKT 1	6/1/2016	6/1/2016		
	Mooreland - Potter 345 kV SPS	6/1/2015	6/1/2015		
	Mooreland - Potter 345 kV WFEC	6/1/2015	6/1/2015		
	Mooreland 345/138 kV Transformer	6/1/2015	6/1/2015		
	Potter - Roosevelt 345KV	6/1/2013	6/1/2013		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2013	6/1/2013		
	Speanville - Mooreland 345 kV SLUNC	6/1/2015	6/1/2015		
	Speanville - Mooreland 345 kV WFEC	6/1/2015	6/1/2015		
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
1090334	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	12/1/2008	6/1/2011		Yes
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	12/1/2011	6/1/2011		
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	6/1/2013	6/1/2013		
	HAYS PLANT - SOUTH HAYS 115KV CKT 1	6/1/2007	6/1/2008	10/1/2007	No
	HAYS PLANT - VINE STREET 115KV CKT 1	6/1/2011	6/1/2011		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2016	6/1/2016		
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2016	6/1/2016		
	KNOLL - VINE STREET 115KV CKT 1	6/1/2016	6/1/2016		
	Mooreland - Potter 345 kV SPS	6/1/2015	6/1/2015		
	Mooreland - Potter 345 kV WFEC	6/1/2015	6/1/2015		
	Mooreland 345/138 kV Transformer	6/1/2015	6/1/2015		
	Potter - Roosevelt 345KV	6/1/2013	6/1/2013		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2013	6/1/2013		
	Speanville - Mooreland 345 kV SLUNC	6/1/2015	6/1/2015		
	Speanville - Mooreland 345 kV WFEC	6/1/2015	6/1/2015		
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		

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

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1090329	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2007		
	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
	WICHITA - RENO 345KV	10/1/2007	7/1/2009		No
1090332	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2007		
	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
	WICHITA - RENO 345KV	10/1/2007	7/1/2009		No
1090334	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2007		
	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
	WICHITA - RENO 345KV	10/1/2007	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
MIDW AG2-2006-051

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
MIDW	1090325	WR	WR	24	6/1/2008	6/1/2038	6/1/2011	5/31/2041	\$ -	\$ -	\$ -	\$ -
MIDW	1090327	WR	WR	6	6/1/2008	6/1/2038	6/1/2011	5/31/2041	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1090325	None					\$ -	\$ -	\$ -
1090327	None					\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1090325	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	12/1/2008	6/1/2011		Yes
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	12/1/2011	6/1/2011		
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	6/1/2013	6/1/2013		
	HAYS PLANT - SOUTH HAYS 115KV CKT 1	6/1/2007	6/1/2008	10/1/2007	No
	HAYS PLANT - VINE STREET 115KV CKT 1	6/1/2011	6/1/2011		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2016	6/1/2016		
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2016	6/1/2016		
	KNOLL - VINE STREET 115KV CKT 1	6/1/2016	6/1/2016		
	Mooreland - Potter 345 kv SPS	6/1/2015	6/1/2015		
	Mooreland - Potter 345 kv WFEC	6/1/2015	6/1/2015		
	Mooreland 345/138 kv Transformer	6/1/2015	6/1/2015		
	Potter - Roosevelt 345KV	6/1/2013	6/1/2013		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2013	6/1/2013		
	Spearville - Mooreland 345 kv SUNC	6/1/2015	6/1/2015		
	Spearville - Mooreland 345 kv WFEC	6/1/2015	6/1/2015		
	STULL SWITCHING STATION - TECUMSEH HILL 115KV CKT 1	6/1/2008	6/1/2008		
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
1090327	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	12/1/2008	6/1/2011		Yes
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	12/1/2011	6/1/2011		
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	6/1/2013	6/1/2013		
	HAYS PLANT - SOUTH HAYS 115KV CKT 1	6/1/2007	6/1/2008	10/1/2007	No
	HAYS PLANT - VINE STREET 115KV CKT 1	6/1/2011	6/1/2011		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2016	6/1/2016		
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2016	6/1/2016		
	KNOLL - VINE STREET 115KV CKT 1	6/1/2016	6/1/2016		
	Mooreland - Potter 345 kv SPS	6/1/2015	6/1/2015		
	Mooreland - Potter 345 kv WFEC	6/1/2015	6/1/2015		
	Mooreland 345/138 kv Transformer	6/1/2015	6/1/2015		
	Potter - Roosevelt 345KV	6/1/2013	6/1/2013		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2013	6/1/2013		
	Spearville - Mooreland 345 kv SUNC	6/1/2015	6/1/2015		
	Spearville - Mooreland 345 kv WFEC	6/1/2015	6/1/2015		
	STULL SWITCHING STATION - TECUMSEH HILL 115KV CKT 1	6/1/2008	6/1/2008		
	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
1090325	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2007		
	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
	WICHITA - RENO 345KV	10/1/2007	7/1/2009		Yes
1090327	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2007		
	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
	WICHITA - RENO 345KV	10/1/2007	7/1/2009		Yes

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

Customer Study Number
 MIDW AG2-2006-058

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	1090377	EES	WR	40	5/1/2010	5/1/2040	5/1/2010	5/1/2040	\$ -	\$ -	\$ -	\$ -
MIDW	1090378	EES	WR	10	5/1/2010	5/1/2040	5/1/2010	5/1/2040	\$ -	\$ -	\$ -	\$ -
MIDW	1090382	EES	WR	20	5/1/2010	5/1/2040	5/1/2010	5/1/2040	\$ -	\$ -	\$ -	\$ -
MIDW	1090383	EES	WR	5	5/1/2010	5/1/2040	5/1/2010	5/1/2040	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1090377	None					\$ -	\$ -	\$ -
					Total	\$ -	\$ -	\$ -
1090378	None					\$ -	\$ -	\$ -
					Total	\$ -	\$ -	\$ -
1090382	None					\$ -	\$ -	\$ -
					Total	\$ -	\$ -	\$ -
1090383	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
1090377	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	6/1/2013	6/1/2013		
	HAYS PLANT - SOUTH HAYS 115KV CKT 1	6/1/2007	6/1/2008	10/1/2007	No
	HAYS PLANT - VINE STREET 115KV CKT 1	6/1/2011	6/1/2011		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2016	6/1/2016		
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2016	6/1/2016		
	KNOLL - VINE STREET 115KV CKT 1	6/1/2016	6/1/2016		
	Mooreland - Potter 345 kV SPS	6/1/2015	6/1/2015		
	Mooreland - Potter 345 kV WFEC	6/1/2015	6/1/2015		
	Mooreland 345/138 kV Transformer	6/1/2015	6/1/2015		
	Potter - Roosevelt 345KV	6/1/2013	6/1/2013		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2013	6/1/2013		
	Speerville - Mooreland 345 kV SUNC	6/1/2015	6/1/2015		
	Speerville - Mooreland 345 kV WFEC	6/1/2015	6/1/2015		
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
1090378	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	6/1/2013	6/1/2013		
	HAYS PLANT - SOUTH HAYS 115KV CKT 1	6/1/2007	6/1/2008	10/1/2007	No
	HAYS PLANT - VINE STREET 115KV CKT 1	6/1/2011	6/1/2011		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2016	6/1/2016		
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2016	6/1/2016		
	KNOLL - VINE STREET 115KV CKT 1	6/1/2016	6/1/2016		
	Mooreland - Potter 345 kV SPS	6/1/2015	6/1/2015		
	Mooreland - Potter 345 kV WFEC	6/1/2015	6/1/2015		
	Mooreland 345/138 kV Transformer	6/1/2015	6/1/2015		
	Potter - Roosevelt 345KV	6/1/2013	6/1/2013		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2013	6/1/2013		
	Speerville - Mooreland 345 kV SUNC	6/1/2015	6/1/2015		
	Speerville - Mooreland 345 kV WFEC	6/1/2015	6/1/2015		
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
1090382	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	6/1/2013	6/1/2013		
	HAYS PLANT - SOUTH HAYS 115KV CKT 1	6/1/2007	6/1/2008	10/1/2007	No
	HAYS PLANT - VINE STREET 115KV CKT 1	6/1/2011	6/1/2011		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2016	6/1/2016		
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2016	6/1/2016		
	KNOLL - VINE STREET 115KV CKT 1	6/1/2016	6/1/2016		
	Mooreland - Potter 345 kV SPS	6/1/2015	6/1/2015		
	Mooreland - Potter 345 kV WFEC	6/1/2015	6/1/2015		
	Mooreland 345/138 kV Transformer	6/1/2015	6/1/2015		
	Potter - Roosevelt 345KV	6/1/2013	6/1/2013		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2013	6/1/2013		
	Speerville - Mooreland 345 kV SUNC	6/1/2015	6/1/2015		
	Speerville - Mooreland 345 kV WFEC	6/1/2015	6/1/2015		
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
1090383	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	6/1/2013	6/1/2013		
	HAYS PLANT - SOUTH HAYS 115KV CKT 1	6/1/2007	6/1/2008	10/1/2007	No
	HAYS PLANT - VINE STREET 115KV CKT 1	6/1/2011	6/1/2011		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2016	6/1/2016		
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2016	6/1/2016		
	KNOLL - VINE STREET 115KV CKT 1	6/1/2016	6/1/2016		
	Mooreland - Potter 345 kV SPS	6/1/2015	6/1/2015		
	Mooreland - Potter 345 kV WFEC	6/1/2015	6/1/2015		
	Mooreland 345/138 kV Transformer	6/1/2015	6/1/2015		
	Potter - Roosevelt 345KV	6/1/2013	6/1/2013		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2013	6/1/2013		
	Speerville - Mooreland 345 kV SUNC	6/1/2015	6/1/2015		
	Speerville - Mooreland 345 kV WFEC	6/1/2015	6/1/2015		
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		

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

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
1090377	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
	WICHITA - RENO 345KV	10/1/2007	7/1/2009		No
1090378	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
	WICHITA - RENO 345KV	10/1/2007	7/1/2009		No
1090382	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
	WICHITA - RENO 345KV	10/1/2007	7/1/2009		No
1090383	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
	WICHITA - RENO 345KV	10/1/2007	7/1/2009		No

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	\$ -	\$ -	\$ -	\$ -
MIDW	1090922	WR	WR	50	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	None					\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -
1090919	None					\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -
1090920	None					\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -
1090921	None					\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -
1090922	None					\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -

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
1090922	HAYS PLANT - SOUTH HAYS 115KV CKT 1	6/1/2007	6/1/2008	10/1/2007	No
	HAYS PLANT - VINE STREET 115KV CKT 1	6/1/2011	6/1/2011		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2016	6/1/2016		
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2016	6/1/2016		
	KNOLL - VINE STREET 115KV CKT 1	6/1/2016	6/1/2016		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1090917	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
	WICHITA - RENO 345KV	10/1/2007	7/1/2009		Yes
1090919	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
	WICHITA - RENO 345KV	10/1/2007	7/1/2009		Yes
1090920	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
	WICHITA - RENO 345KV	10/1/2007	7/1/2009		Yes
1090921	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
	WICHITA - RENO 345KV	10/1/2007	7/1/2009		Yes
1090922	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2007		
	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
	WICHITA - RENO 345KV	10/1/2007	7/1/2009		Yes

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

Customer Study Number
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	6/1/2011	5/31/2016	\$ -	\$ -	\$ -	\$ -
MIDW	1090965	WR	WR	10	1/1/2007	1/1/2012	6/1/2011	5/31/2016	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1090964	None					\$ -	\$ -	\$ -
1090965	None					\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -

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	2/1/2008	10/1/2007	Yes
	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	12/1/2008	6/1/2011		Yes
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	12/1/2011	6/1/2011		
	CLAY CENTER - GREENLEAF 115KV CKT 1	6/1/2007	2/1/2008	10/1/2007	Yes
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	6/1/2013	6/1/2013		
	GILL ENERGY CENTER EAST - GILLJCT269.0 69KV CKT 1	6/1/2007	6/1/2008		Yes
	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1	6/1/2007	6/1/2008		Yes
	HAYS PLANT - SOUTH HAYS 115KV CKT 1	6/1/2007	6/1/2008	10/1/2007	Yes
	HAYS PLANT - VINE STREET 115KV CKT 1	6/1/2011	6/1/2011		
	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 - Roosevelt 345KV	6/1/2013	6/1/2013		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2013	6/1/2013		
	Spearville - Mooreland 345 KV SJUNC	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		
1090965	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	6/1/2007	2/1/2008	10/1/2007	Yes
	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	12/1/2008	6/1/2011		Yes
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	12/1/2011	6/1/2011		
	CLAY CENTER - GREENLEAF 115KV CKT 1	6/1/2007	2/1/2008	10/1/2007	Yes
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	6/1/2013	6/1/2013		
	GILL ENERGY CENTER EAST - GILLJCT269.0 69KV CKT 1	6/1/2007	6/1/2008		Yes
	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1	6/1/2007	6/1/2008	10/1/2007	Yes
	HAYS PLANT - SOUTH HAYS 115KV CKT 1	6/1/2007	6/1/2008		
	HAYS PLANT - VINE STREET 115KV CKT 1	6/1/2011	6/1/2011		
	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 - Roosevelt 345KV	6/1/2013	6/1/2013		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2013	6/1/2013		
	Spearville - Mooreland 345 KV SJUNC	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
1090964	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2007		
	LACYGNE-PAOLA-WEST GARDER 345KV	6/1/2007	6/1/2008		Yes
	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
	WICHITA - RENO 345KV	10/1/2007	7/1/2009		Yes
1090965	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2007		
	LACYGNE-PAOLA-WEST GARDER 345KV	6/1/2007	6/1/2008		Yes
	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
	WICHITA - RENO 345KV	10/1/2007	7/1/2009		Yes

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

Customer Study Number
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	6/1/2011	6/1/2021	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1090817	None					\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -
						\$ -	\$ -	\$ -

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	2/1/2008	10/1/2007	Yes
	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	12/1/2008	6/1/2011		Yes
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	12/1/2011	6/1/2011		
	CLAY CENTER - GREENLEAF 115KV CKT 1	6/1/2007	2/1/2008	10/1/2007	Yes
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	6/1/2013	6/1/2013		
	GILL ENERGY CENTER EAST - GILLJCT269.0 69KV CKT 1	6/1/2007	6/1/2008		Yes
	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1	6/1/2007	6/1/2008		Yes
	HAYS PLANT - SOUTH HAYS 115KV CKT 1	6/1/2007	6/1/2008	10/1/2007	Yes
	HAYS PLANT - VINE STREET 115KV CKT 1	6/1/2011	6/1/2011		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2016	6/1/2016		
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2016	6/1/2016		
	KNOLL - VINE STREET 115KV CKT 1	6/1/2016	6/1/2016		
	Mooreland - Potter 345 kV SPS	6/1/2015	6/1/2015		
	Mooreland - Potter 345 kV WFEC	6/1/2015	6/1/2015		
	Mooreland 345/138 kV Transformer	6/1/2015	6/1/2015		
	Potter - Roosevelt 345KV	6/1/2013	6/1/2013		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2013	6/1/2013		
	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
1090817	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2007		
	LACYONE-PAOLA-WEST GARDER 345KV	6/1/2007	6/1/2009		Yes
	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
	WICHITA - RENO 345KV	10/1/2007	7/1/2009		Yes

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

Customer Study Number
 MIDW AG2-2006-108

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	1090826	WR	WR	40	6/1/2008	6/1/2028	6/1/2011	6/1/2031	\$ -	\$ -	\$ -	\$ -
MIDW	1090829	WR	WR	15	6/1/2008	6/1/2028	6/1/2011	6/1/2031	\$ -	\$ -	\$ -	\$ -
MIDW	1090844	WR	WR	10	6/1/2008	6/1/2028	6/1/2011	6/1/2031	\$ -	\$ -	\$ -	\$ -
MIDW	1090854	WR	WR	6	6/1/2008	6/1/2018	6/1/2011	6/1/2021	\$ -	\$ -	\$ -	\$ -
MIDW	1091057	WR	WR	10	6/1/2008	6/1/2018	6/1/2011	6/1/2021	\$ -	\$ -	\$ -	\$ -
									\$ -	\$ -	\$ -	\$ -

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1090826	None					\$ -	\$ -	\$ -
1090829	None					\$ -	\$ -	\$ -
1090844	None					\$ -	\$ -	\$ -
1090854	None					\$ -	\$ -	\$ -
1091057	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
1090826	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	12/1/2008	6/1/2011		Yes
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	12/1/2011	6/1/2011		
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	6/1/2013	6/1/2013		
	GILL ENERGY CENTER EAST - GILLJCT269.0 69KV CKT 1	6/1/2007	6/1/2008		No
	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1	6/1/2007	6/1/2008		No
	HAYS PLANT - SOUTH HAYS 115KV CKT 1	6/1/2007	6/1/2008	10/1/2007	No
	HAYS PLANT - VINE STREET 115KV CKT 1	6/1/2011	6/1/2011		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2016	6/1/2016		
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2016	6/1/2016		
	KNOLL - VINE STREET 115KV CKT 1	6/1/2016	6/1/2016		
	Mooreland - Potter 345 kv SPS	6/1/2015	6/1/2015		
	Mooreland - Potter 345 kv WFEC	6/1/2015	6/1/2015		
	Mooreland 345/138 kv Transformer	6/1/2015	6/1/2015		
	Potter - Roosevelt 345KV	6/1/2013	6/1/2013		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2013	6/1/2013		
	Speanville - Mooreland 345 kv SJUNC	6/1/2015	6/1/2015		
	Speanville - Mooreland 345 kv WFEC	6/1/2015	6/1/2015		
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
1090829	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	12/1/2008	6/1/2011		No
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	12/1/2011	6/1/2011		
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	6/1/2013	6/1/2013		
	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1	6/1/2007	6/1/2008		No
	HAYS PLANT - SOUTH HAYS 115KV CKT 1	6/1/2007	6/1/2008	10/1/2007	No
	HAYS PLANT - VINE STREET 115KV CKT 1	6/1/2011	6/1/2011		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2016	6/1/2016		
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2016	6/1/2016		
	KNOLL - VINE STREET 115KV CKT 1	6/1/2016	6/1/2016		
	Mooreland - Potter 345 kv SPS	6/1/2015	6/1/2015		
	Mooreland - Potter 345 kv WFEC	6/1/2015	6/1/2015		
	Mooreland 345/138 kv Transformer	6/1/2015	6/1/2015		
	Potter - Roosevelt 345KV	6/1/2013	6/1/2013		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2013	6/1/2013		
	Speanville - Mooreland 345 kv SJUNC	6/1/2015	6/1/2015		
	Speanville - Mooreland 345 kv WFEC	6/1/2015	6/1/2015		
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
1090844	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	12/1/2008	6/1/2011		Yes
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	12/1/2011	6/1/2011		
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	6/1/2013	6/1/2013		
	GILL ENERGY CENTER EAST - GILLJCT269.0 69KV CKT 1	6/1/2007	6/1/2008		No
	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1	6/1/2007	6/1/2008		No
	HAYS PLANT - SOUTH HAYS 115KV CKT 1	6/1/2007	6/1/2008	10/1/2007	No
	HAYS PLANT - VINE STREET 115KV CKT 1	6/1/2011	6/1/2011		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2016	6/1/2016		
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2016	6/1/2016		
	KNOLL - VINE STREET 115KV CKT 1	6/1/2016	6/1/2016		
	Mooreland - Potter 345 kv SPS	6/1/2015	6/1/2015		
	Mooreland - Potter 345 kv WFEC	6/1/2015	6/1/2015		
	Mooreland 345/138 kv Transformer	6/1/2015	6/1/2015		
	Potter - Roosevelt 345KV	6/1/2013	6/1/2013		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2013	6/1/2013		
	Speanville - Mooreland 345 kv SJUNC	6/1/2015	6/1/2015		
	Speanville - Mooreland 345 kv WFEC	6/1/2015	6/1/2015		
	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		

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

1090854	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	12/1/2008	6/1/2011		Yes
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	12/1/2011	6/1/2011		
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	6/1/2013	6/1/2013		
	GILL ENERGY CENTER EAST - GILLJCT269.0 69KV CKT 1	6/1/2007	6/1/2008		No
	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1	6/1/2007	6/1/2008		No
	HAYS PLANT - SOUTH HAYS 115KV CKT 1	6/1/2007	6/1/2008	10/1/2007	No
	HAYS PLANT - VINE STREET 115KV CKT 1	6/1/2011	6/1/2011		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2016	6/1/2016		
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2016	6/1/2016		
	KNOLL - VINE STREET 115KV CKT 1	6/1/2016	6/1/2016		
	Mooreland - Potter 345 kV SPS	6/1/2015	6/1/2015		
	Mooreland - Potter 345 kV WFEC	6/1/2015	6/1/2015		
	Mooreland 345/138 kV Transformer	6/1/2015	6/1/2015		
	Potter - Roosevelt 345KV	6/1/2013	6/1/2013		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2013	6/1/2013		
	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		
1091057	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	12/1/2008	6/1/2011		Yes
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	12/1/2011	6/1/2011		
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	6/1/2013	6/1/2013		
	GILL ENERGY CENTER EAST - GILLJCT269.0 69KV CKT 1	6/1/2007	6/1/2008		No
	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1	6/1/2007	6/1/2008		No
	HAYS PLANT - SOUTH HAYS 115KV CKT 1	6/1/2007	6/1/2008	10/1/2007	No
	HAYS PLANT - VINE STREET 115KV CKT 1	6/1/2011	6/1/2011		
	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	6/1/2016	6/1/2016		
	HUNTSVILLE - ST JOHN 115KV CKT 1	6/1/2016	6/1/2016		
	KNOLL - VINE STREET 115KV CKT 1	6/1/2016	6/1/2016		
	Mooreland - Potter 345 kV SPS	6/1/2015	6/1/2015		
	Mooreland - Potter 345 kV WFEC	6/1/2015	6/1/2015		
	Mooreland 345/138 kV Transformer	6/1/2015	6/1/2015		
	Potter - Roosevelt 345KV	6/1/2013	6/1/2013		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2013	6/1/2013		
	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
1090826	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2007		
	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
	WICHITA - RENO 345KV	10/1/2007	7/1/2009		Yes
1090829	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2007		
	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
	WICHITA - RENO 345KV	10/1/2007	7/1/2009		No
1090844	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2007		
	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
	WICHITA - RENO 345KV	10/1/2007	7/1/2009		Yes
1090854	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2007		
	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
	WICHITA - RENO 345KV	10/1/2007	7/1/2009		Yes
1091057	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2007		
	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
	WICHITA - RENO 345KV	10/1/2007	7/1/2009		Yes

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

Customer Study Number
 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	10/1/2009	10/1/2014	\$ -	\$ 540,000	\$ 1,082,331	\$ 2,281,706
									\$ -	\$ 540,000	\$ 1,082,331	\$ 2,281,706

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements	
1087908	5 TRIBES - PECAN CREEK 161KV CKT 1 Displacement	6/1/2008	6/1/2010	10/1/2009	No	\$ 180,389	\$ 180,389	\$ 371,035	
	PECAN CREEK (PECANCK1) 345/161/13.8KV TRANSFORMER CKT 2 Displacement	6/1/2008	6/1/2010	10/1/2009	No	\$ 901,942	\$ 901,942	\$ 1,910,671	
						Total	\$ 1,082,331	\$ 1,082,331	\$ 2,281,706

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		No
	FPL SWITCH - MOORELAND 138KV CKT 1 WFEC	6/1/2006	4/1/2008		No

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1087908	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2007		

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	10/1/2006	10/1/2007	2/1/2009	2/1/2010	\$ -	\$ 528,000	\$ 50,000	\$ -
									\$ -	\$ 528,000	\$ 50,000	\$ -

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	10/1/2007		No	\$ 50,000	\$ 100,000	\$ -	
						Total	\$ 50,000	\$ 100,000	\$ -

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1090699	GREENSBURG - JUDSON LARGE 115KV CKT 1	10/1/2006	12/1/2007		No
	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	12/1/2006	2/1/2009		No
	MOCKINGBIRD HILL SWITCHING STATION - STULL SWITCHING STATION 115KV CKT 1	10/1/2007	6/1/2008		No
	STULL SWITCHING STATION - TECUMSEH HILL 115KV CKT 1	6/1/2008	6/1/2008		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1090699	LACYGNE-PAOLA-WEST GARDER 345KV	6/1/2007	6/1/2008		No
	WICHITA - RENO 345KV	10/1/2007	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
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	10/1/2006	10/1/2007	2/1/2009	2/1/2010	\$ -	\$ 528,000	\$ 50,000	\$ -
									\$ -	\$ 528,000	\$ 50,000	\$ -

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	10/1/2007	No	No	\$ 50,000	\$ 100,000	\$ -	
						Total	\$ 50,000	\$ 100,000	\$ -

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1090705	GREENSBURG - JUDSON LARGE 115KV CKT 1	10/1/2006	12/1/2007	No	No
	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	12/1/2006	2/1/2009	No	No
	MOCKINGBIRD HILL SWITCHING STATION - STULL SWITCHING STATION 115KV CKT 1	10/1/2007	6/1/2008	No	No
	STULL SWITCHING STATION - TECUMSEH HILL 115KV CKT 1	6/1/2008	6/1/2008	No	No

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1090705	LACYGNE-PAOLA-WEST GARDER 345KV	6/1/2007	6/1/2008	No	No
	WICHITA - RENO 345KV	10/1/2007	7/1/2009	No	No

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	1052923	KCPL	MPS	160	6/1/2010	6/1/2030	6/1/2010	6/1/2030	\$ -	\$ 61,862,400	\$ 3,427,729	\$ 13,170,017
									\$ -	\$ 61,862,400	\$ 3,427,729	\$ 13,170,017

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements	
1052923	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 3,346,041	\$ 4,123,803	\$ 13,170,017	
	PLATTE CITY - POPE 161 161KV CKT 1	12/1/2011	12/1/2011			\$ 81,688	\$ 100,000	\$ -	
						Total	\$ 3,427,729	\$ 4,223,803	\$ 13,170,017

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	2/1/2009	No	No
	STRANGER CREEK TRANSFORMER CKT 2	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
1052923	166TH STREET - JAGGARD JUNCTION 115KV CKT 1	6/1/2009	6/1/2009		
	166TH STREET - JARBALO JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2009	6/1/2009		
	COLLEGE - CRAIG 161KV CKT 1	6/1/2016	6/1/2016		
	JAGGARD JUNCTION - PENTAGON 115KV CKT 1	6/1/2009	6/1/2009		

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1052923	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2007		

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	6/1/2011	5/31/2016	\$ -	\$ 1,080,000	\$ 370,900	\$ 905,121
									\$ -	\$ 1,080,000	\$ 370,900	\$ 905,121

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements	
1076158	IATAN - STRANGER CREEK 345KV CKT 2	6/1/2011	6/1/2011			\$ 362,418	\$ 4,123,803	\$ 905,121	
	PLATTE CITY - POPE 161 161KV CKT 1	12/1/2011	12/1/2011			\$ 6,482	\$ 100,000	\$ -	
						Total	\$ 370,900	\$ 4,223,803	\$ 905,121

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

Reservation	Upgrade Name	COD	EOC	Earliest Service Start Date	Redispatch Available
1076158	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	12/1/2008	6/1/2011		No
	KELLY - KING HILL N.M. COOP 115KV CKT 1	12/1/2011	6/1/2011		
	STRANGER CREEK TRANSFORMER CKT 2	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
1076158	IATAN - ST JOE 345KV CKT 1	6/1/2011	6/1/2007		

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	\$ 40,500,000	\$ -	\$ 54,788,601	\$ 103,079,652
									\$ 40,500,000	\$ -	\$ 54,788,601	\$ 103,079,652

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	6/1/2011	6/1/2011			\$ 40,755	\$ 45,996	\$ 97,154	
	COFFEYVILLE TAP - DEARING 138KV CKT 1 WERE Displacement	6/1/2011	6/1/2011			\$ 94,047	\$ 106,142	\$ 240,053	
	CRESWELL (CRESWL1X) 138/69/13.2KV TRANSFORMER Displacement	6/1/2011	6/1/2011			\$ -	\$ -	\$ -	
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	6/1/2008	6/1/2008			\$ 467,949	\$ 531,156	\$ 1,416,449	
	Sooner to Rose Hill 345 kV OKGE	6/1/2016	6/1/2016			\$ 27,092,925	\$ 27,382,166	\$ 50,869,120	
	Sooner to Rose Hill 345 kV WERE	6/1/2016	6/1/2016			\$ 27,092,925	\$ 27,382,166	\$ 50,456,875	
						Total	\$ 54,788,601	\$ 55,447,626	\$ 103,079,652

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	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	6/1/2013	6/1/2013		
	DEARING (DEARIN1X) 138/69/13.2KV TRANSFORMER CKT 1	12/1/2011	12/1/2011		
	Evans - Grant - Chiscolm Rebuild and Conversion Project	6/1/2010	6/1/2010		
	GILL ENERGY CENTER EAST - INTERSTATE 138KV CKT 1	6/1/2016	6/1/2016		
	Mooreland - Potter 345 kV SPS	6/1/2015	6/1/2015		
	Mooreland - Potter 345 kV WFEC	6/1/2015	6/1/2015		
	Mooreland 345/138 kV Transformer	6/1/2015	6/1/2015		
	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	6/1/2016	6/1/2016		
	Potter - Roosevelt 345KV	6/1/2013	6/1/2013		
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	6/1/2015	6/1/2015		
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2013	6/1/2013		
	Speanville - Mooreland 345 kV SLUNC	6/1/2015	6/1/2015		
	Speanville - Mooreland 345 kV WFEC	6/1/2015	6/1/2015		
	STRANGER CREEK TRANSFORMER CKT 2	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
1086655	RENO - SUMMIT 345KV	1/1/2011	1/1/2011		
	WICHITA - RENO 345KV	10/1/2007	7/1/2009		Yes

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

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (COD)	Estimated Date of Upgrade Completion (EOC)	Estimated Engineering & Construction Cost
AEPW	COFFEYVILLE TAP - DEARING 138KV CKT 1 AEPW Displacement	Rebuild 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 an five 138 kV switches. Reset relays and CTs	6/1/2011	6/1/2011	\$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 an five 138 kV switches. Reset relays and CTs	6/1/2011	6/1/2011	\$1,500,000.00
KACP	IATAN - STRANGER CREEK 345KV CKT 2	Convert Iatan-Stranger Creek 161kV line to 345kV	6/1/2011	6/1/2011	\$4,123,803.00
MIPU	PLATTE CITY - POPE 161 161KV CKT 1	Replacement of the wavetrap at Platte City	12/1/2011	12/1/2011	\$100,000.00
OKGE	5 TRIBES - PECAN CREEK 161KV CKT 1 Displacement	replace 636AS33 conductor with 795AS33	6/1/2008	6/1/2010	\$1,200,000.00
OKGE	PECAN CREEK (PECANCK1) 345/161/13.8KV TRANSFORMER CKT 2 Displacement	Add 2nd 345/161 kV 369MVA transformer.	6/1/2008	6/1/2010	\$6,000,000.00
OKGE	Sooner to Rose Hill 345 kV OKGE	New 345 kV line from Sooner to Oklahoma/Kansas	6/1/2016	6/1/2016	\$27,500,000.00
SPS	Bailey County - Curry County 115 kV Displacement	New 115 kV 397 ACSR circuit between Bailey and Curry	6/1/2011	6/1/2011	\$11,148,185.00
SPS	BAILEY COUNTY PROGRESS Interconnection #1	New Delivery Point on Bailey County to Curry County 69 kV line at 51233 WMULES will require a dual winding distribution transformer for future to 115 kV conversion Interconnection costs indeterminate.	3/1/2007	3/1/2007	Indeterminate
SPS	BAILEY COUNTY PROGRESS Interconnection #2	Move BAILEY COUNTY PROGRESS Interconnection on new 115 kV Line from Bailey County to Curry County Cost Indeterminat	6/1/2011	6/1/2011	Indeterminate
SPS	BAILEY COUNTY SUNNYSIDE Interconnection	New Delivery Point on Castro County to Lamton 69 kV Line at 51291 DS-#12 Interconnection costs indeterminat	10/1/2007	10/1/2007	Indeterminate
SPS	GSEC Midway Interconnection #1	New Delivery Point tapping 69 kV Tie Line from AEPW Shamrock to SPS Magic Cit	10/1/2006	10/1/2006	\$70,000.00
SPS	GSEC Midway Interconnection #2	Install 7.2 MVAR Capacitor at GSEC Midway 69 kV No Cost Assigned based on GSEC Ownershi	6/1/2011	6/1/2011	Indeterminate
SPS	Hart Interchange 115/69 kV	New 115/69 kV Hart Intg with Lamton to Castro Co 69 kV ckt, 40 MVA auto Move Normally Open 69 kV Point South of Ha	6/1/2011	6/1/2011	\$3,500,000.00
SPS	Hitchland 345 and 115 kV Interchange	Three breaker 345 kV bus, 345/115 kV transformer, five 115 kV breakers	6/1/2008	10/1/2009	\$14,795,676.00
SPS	MOORE COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1 Redispatch	Redispatch prior to required Hitchland upgrad	4/1/2007	6/1/2007	Indeterminate
SPS	Mustang-San Andr-Amerada Hess 115KV Displacement	Terminate V53 at Mustang instead of Denver City - 3 mi of new 115 kV circuit. Mustang-San Andr-Amerada Hess 115 kV c	4/1/2007	6/1/2008	\$1,742,892.00
SPS	RITA BLANCA Masterson (EXELL) Interconnection	New Delivery Point Interconnection at 50674 EXELL 69 kV costs indeterminate	10/1/2006	10/1/2006	Indeterminate
SPS	RITA BLANCA RITA (Sherman) Interconnection	New Delivery Point at 50622 SHERMAN 69 kV Interconnection costs indeterminat	9/1/2007	9/1/2007	Indeterminate
SPS	SOUTH PLAINS ALCOVE Interconnection	New Delivery Point at 51656 Carlisle 115 kV Interconnection costs indeterminat	3/1/2009	3/1/2009	Indeterminate
SPS	SOUTH PLAINS MILWAUKEE and SLIDE Interconnection	New Delivery Points at Wolforth 115 kV Interconnection costs indeterminat	3/1/2013	3/1/2013	Indeterminate
SPS	SOUTH PLAINS WOLFFORTH Interconnection	New Delivery Point on Wolforth to Yuma 115 kV line Interconnection costs indeterminat	3/1/2011	3/1/2011	Indeterminate
SPS	Tex-Hitchland-Sherman Tap 115 kV ckt	Route Sherman Tap to Texas Co in/out of New Hitchland Interchang	6/1/2008	10/1/2009	\$2,401,645.00
SPS	TRI COUNTY HILLER Interconnection	New Delivery Point addition at Texas County 115 kV Interconnection costs indeterminate.	7/1/2007	7/1/2007	Indeterminate
SPS	TRI COUNTY PRAIRIE Interconnection #1	New Delivery Point on Texas County to Liberal 115 kV line Interconnection costs indeterminat	7/1/2007	7/1/2007	Indeterminate
SPS	TRI COUNTY PRAIRIE Interconnection #2	Move Texas County Phase Shifter to TRI COUNTY PRAIRIE Interconnectio	7/1/2007	6/1/2008	\$1,500,000.00
SPS	YOAKUM COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1 Displacement	Upgrade Transformer 230/115 kV 252 MVA	6/1/2007	6/1/2008	\$3,000,000.00
SUNC	HOLCOMB - PLYMELL - PIONEER TAP 115KV CKT 1 Displacement	Holcomb to Pioneer Tap Rebuilc	6/1/2007	6/1/2009	\$4,360,000.00
WEPL	MEDICINE LODGE - SUN CITY 115KV CKT 1	Upgrade CTs and Wave Trap Limits	6/1/2007	10/1/2007	\$100,000.00
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	CRESWELL (CRESWL1X) 138/69/13.2KV TRANSFORMER Displacement	Replace transformers	6/1/2011	6/1/2011	\$4,000,000.00
WERE	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3 Displacement	Add third 345-138 kV transformer at Rose Hill	6/1/2008	6/1/2008	\$5,000,000.00
WERE	Sooner to Rose Hill 345 kV WERE	New 345 kV line from Oklahoma/Kansas Stateline to Rose Hi	6/1/2016	6/1/2016	\$27,500,000.00
WFEC	FT SUPPLY - WOODWARD 69KV CKT 1	Reconductor 18.0 miles from 336 to 795 ACSR	10/1/2007	2/1/2009	\$3,800,000.00
WFEC	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	Terminal Upgrade at Mooreland (CTS)	6/1/2008	6/1/2008	\$50,000.00

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

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (COD)	Estimated Date of Upgrade Completion (EOC)
AEPW	ALUMAX TAP - BANN 138KV CKT 1	Replace six (6) 138 kV switches, five at Bann & one at Alumax Tap. Rebuild 0.67 miles of 1024 ACAR with 2156 ACSR. Replace wavetrap & jumpers @ Bann. Replace breaker 3300 @ Bann.	6/1/2007	6/1/2008
KACP	LACYGNE-PAOLA-WEST GARDER 345KV	New 345/161kV transformer and 345kV line tapping LaCyne - West Gardner 345kV	6/1/2007	6/1/2008
MIPU	IATAN - ST JOE 345KV CKT 1	Circuit Breaker	6/1/2011	6/1/2007
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 douc 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	10/1/2007	7/1/2009
WFEC	FT SUPPLY 138/69KV TRANSFORMER CKT 1	Install 2nd 70 MVA auto at Ft Supplh	6/1/2007	6/1/2008
WFEC	HAMON BUTLER - MOREWOOD 69KV CKT 1	Reconductor 1/0 to 336 ACSR - 15.0 miles	6/1/2007	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 Upgrade Required (COD)	Estimated Date of Upgrade Completion (EOC)
AEPW	ALUMAX TAP - NORTHWEST TEXARKANA 138KV CKT 1	Rebuild 1.68 miles of 1024 ACAR with 2156 ACSR, Replace wavetrap & jumpers with 2156 ACSR. Replace Switch 2285 @ Alumax Tap.	6/1/2007	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 th	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	6/1/2009
AEPW	CLINTON CITY - THOMAS TAP 69KV CKT 1	Rebuild 13.9 miles of 4/0 ACSR with 795 ACSR	6/1/2016	6/1/2016
AEPW	ELK CITY - ELK CITY 69KV CKT 1 AEPW	Replace metering CTs & Jumpers and reset relay Ct	6/1/2007	6/1/2007
AEPW	LINWOOD - MCWILLIE STREET 138KV CKT 1	Rebuild 2.09 miles of 666 ACSR with 1272 ACSF	6/1/2007	6/1/2008
AEPW	Siloam Springs - South Fayetteville 161 kV	Convert Existing 69 kV Line to 161 kV Operatio	6/1/2016	6/1/2016
AEPW	THOMAS TAP - WEATHERFORD 69KV CKT 1	Rebuild 0.9 miles of 4/0 ACSR with 795 ACSR. Replace Weatherford wavetrap	6/1/2016	6/1/2016
AEPW	WEATHERFORD SOUTHEAST (WTH_SE) 138/69/13.8KV TRANSFORMER CKT 1	Install new 90 MVA Autc	6/1/2015	6/1/2015
AEPWWFEC	SNYDER AEPW- SNYDER WFEC INTERCONNECTION	New Tie line between AEPW's Snyder and WFEC's Snyder	6/1/2015	6/1/2015
MIDW	HAYS PLANT - SOUTH HAYS 115KV CKT 1	Reconductor line	6/1/2007	6/1/2008
MIDW	HAYS PLANT - VINE STREET 115KV CKT 1	Reconductor line	6/1/2011	6/1/2011
MIDW	HUNTSVILLE - ST JOHN 115KV CKT 1	Rebuild Huntsville - St. John 115 kV line and replace CT, wavetrap, breakers, and relay	6/1/2016	6/1/2016
MIDW	KNOLL - VINE STREET 115KV CKT 1	Reconductor line	6/1/2016	6/1/2016
MIPU	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	Upgrade to bundled 795 26/7 ACSR conducto	12/1/2006	2/1/2009
OKGE	ALVA - KNOBHILL 69KV CKT 1	Replace bus differential relaying and increase CTR to 600A	6/1/2008	6/1/2008
SPS	BC-EARTH INTERCHANGE 115KV	Install 1 - 14.4 MVar capacitor bank	6/1/2016	6/1/2016
SPS	CROSBY 115KV	Install 2-14 MVAR cap at Crosby	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	6/1/2012	6/1/2012
SPS	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	Upgrade Roosevelt to Curry 115 kV circuit w/795 ACSF	6/1/2013	6/1/2013
SPS	CURRY COUNTY INTERCHANGE 115/69KV TRANSFORMER CKT 3	Add third transformer	6/1/2011	6/1/2011
SPS	HART 69 kV Capacitor	Install 7.2 MVAR Capacitor at Hart 69 kV	6/1/2008	6/1/2008
SPS	Hart Interchange 230/115 kV	New 230/115 kV Hart Intg with 115 kV 397 ACSR ckt to Kress Int, 3-brkr 230 kV ring, 150 MVA auto, 115 kV termin	6/1/2011	6/1/2011
SPS	KRESS INTERCHANGE 115/69KV TRANSFORMERS	Upgrade both existing transforme	6/1/2007	6/1/2007
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 transforme	6/1/2013	6/1/2013
SPS	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	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 Ette	6/1/2012	6/1/2012
SPS	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	Add 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	Stateline Project	Tap Elk City - Grapevine. New line from Stateline Tap to Graves Co. New 115/69xfmr at Graves Co	6/1/2010	6/1/2010
SPS	TUCO INTERCHANGE 115/69KV TRANSFORMER	Move Load to 115 kV at TUCO	6/1/2007	6/1/2007
SPS	TUCO INTERCHANGE 345/115KV TRANSFORMER CKT 1	Install 345/115 kV Transformer at Tucc	6/1/2015	6/1/2015
SUNC	Spearville - Mooreland 345 kV SUNC	New 345 kV line from Spearville to Kansas/Oklahoma Statelin	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 Cente	6/1/2007	2/1/2008
WEPL	GREENSBURG - JUDSON LARGE 115KV CKT 1	Replace relaying	10/1/2006	12/1/2007
WERE	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	Reset terminal equipmen	6/1/2007	2/1/2008
WERE	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	Rebuild 16.66 mile Circleville-Hoyt HTI Junction 115 kV line	12/1/2008	6/1/2011
WERE	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	Rebuild 15.15 mile line with 1192.5 kcmil ACSR and replace CT	12/1/2011	6/1/2011
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 Jc	6/1/2010	6/1/2010
WERE	GILL ENERGY CENTER EAST - GILLJCT269.0 69KV CKT 1	Rebuild Gill-Gill Jc	6/1/2007	6/1/2008
WERE	GILL ENERGY CENTER EAST - INTERSTATE 138KV CKT 1	Replace wave trap	6/1/2016	6/1/2016
WERE	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1	Replace substation bus and jumpers at MacArthur 69 kV	6/1/2007	6/1/2008
WERE	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1	Rebuild HEC - Huntsville 115 kV line and replace CT, wavetrap and relay.	6/1/2016	6/1/2016
WERE	KELLY - KING HILL N.M. COOP 115KV CKT 1	Rebuild 9.61-mile line, 1192.5 ACSF	12/1/2011	6/1/2011
WERE	MOCKINGBIRD HILL SWITCHING STATION - STULL SWITCHING STATION 115KV CKT 1	Tear down and rebuild 6.40 mile Mockingbird-Stull Tap 115 kV line	10/1/2007	6/1/2008
WERE	NEOSHO - NORTHEAST PARSONS 138KV CKT 1	NE Parsons bus & jumpers	6/1/2016	6/1/2016
WERE	STRANGER CREEK TRANSFORMER CKT 2	2nd STRA 345-115	6/1/2015	6/1/2015
WERE	STULL SWITCHING STATION - TECUMSEH HILL 115KV CKT 1	Rebuild 9.84-mile line, 1192.5 ACSF	6/1/2008	6/1/2008
WFEC	Mooreland - Potter 345 kV WFEC	345 kV line Termina	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	Spearville - Mooreland 345 kV WFEC	New 345 kV line from Kansas/Oklahoma Stateline to Mooreland	6/1/2015	6/1/2015
WFEC	WOODWARD - WOODWARD 69KV CKT 1	Replace the 336.4 conductor with 795	6/1/2007	10/1/2008

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

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

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (COD)	Estimated Date of Upgrade Completion (EOC)
AEPW	36TH & LEWIS - 52ND & DELAWARE TAP 138KV CKT 1	Reset Relays @ 36th & Lewis	6/1/2016	6/1/2016
AEPW	CACHE - SNYDER 138KV CKT 1	Replace Snyder wavetrap	6/1/2008	6/1/2008
AEPW	EAST CENTRAL HENRYETTA - OKMULGEE 138KV CKT 1	Replace Okmulgee Wavetrap	12/1/2006	12/1/2006
AEPW	EAST CENTRAL HENRYETTA - WELEETKA 138KV CKT 1	Replace Weleetka Wavetrap	6/1/2007	6/1/2007
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
AEPW	FULTON - HOPE 115KV CKT 1	Replace conductor in Hope Substation	6/1/2010	6/1/2010
KACP	COLLEGE - CRAIG 161KV CKT 1	Reconductor 4 miles with 1192.5 ACSS, 558 normal/emergency rating and upgrade break	6/1/2016	6/1/2016
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	BEEELINE - 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 : WFEC's Mooreland at 390A & 600A.	6/1/2006	4/1/2008
OKGE	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1	Replace bus tie with 100MVA transforme	6/1/2006	6/1/2008
WERE	166TH STREET - JAGGARD JUNCTION 115KV CKT 1	Tear down and rebuild 3.66 mile 166-Jaggard 115 kv line	6/1/2009	6/1/2009
WERE	166TH STREET - JARBALO JUNCTION SWITCHING STATION 115KV CKT 1	Tear down and rebuild 7.22 mile Jarbalo-166 115 kv line	6/1/2009	6/1/2009
WERE	JAGGARD JUNCTION - PENTAGON 115KV CKT 1	Tear down and rebuild Jaggard - Pentagon 115 kv line	6/1/2009	6/1/2009
WFEC	FPL SWITCH - MOORELAND 138KV CKT 1 WFEC	Upgrade terminal equipment FPL Sw & Mooreland	6/1/2006	4/1/2008
WFEC	FT SUPPLY 138/69KV TRANSFORMER CKT 1	Install 2nd 70 MVA auto at Ft Suppl	12/1/2006	6/1/2008
WFEC	FT SUPPLY 138/69KV TRANSFORMER CKT 1	Install 2nd 70 MVA auto at Ft Suppl	12/1/2006	6/1/2008
WFEC	HAMON BUTLER - MOREWOOD 69KV CKT 1	Reconductor 1/0 to 336 ACSR - 15.0 miles	6/1/2006	4/1/2008
WFEC	HAMON BUTLER - MOREWOOD 69KV CKT 1	Reconductor 1/0 to 336 ACSR - 15.0 miles	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
	NONE						

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

Upgrade: ALUMAX TAP - BANN 138KV CKT 1
 Limiting Facility: ALUMAX TAP - BANN 138KV CKT 1
 Direction: From->To
 Line Outage: SPP-AEPW-29
 Flowgate: 53245532501SPP-AEPW-29107SP
 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)
1086238	0.5	0.5								
Source Control Area	Source									
AEPW	LONESTAR POWER PLANT 69KV		50	-0.08758	AEPW	COMANCHE 138KV	160	0.01244	-0.10002	5
AEPW	LONESTAR POWER PLANT 69KV		50	-0.08758	AEPW	COMANCHE 69KV	63	0.01239	-0.09997	5
AEPW	LONESTAR POWER PLANT 69KV		50	-0.08758	AEPW	SOUTHWESTERN STATION 138KV	327	0.01212	-0.0997	5
AEPW	LONESTAR POWER PLANT 69KV		50	-0.08758	AEPW	WEATHERFORD 34KV	148	0.01152	-0.0991	5
AEPW	LONESTAR POWER PLANT 69KV		50	-0.08758	AEPW	WELSH 345KV	990	0.01228	-0.09986	5
AEPW	LONESTAR POWER PLANT 69KV		50	-0.08758	AEPW	COGENTRIX 345KV	665	0.00882	-0.0964	6
AEPW	LONESTAR POWER PLANT 69KV		50	-0.08758	AEPW	FITZHUGH 161KV	126	0.00382	-0.0914	6
AEPW	LONESTAR POWER PLANT 69KV		50	-0.08758	AEPW	FLINT CREEK 161KV	420	0.00713	-0.09471	6
AEPW	LONESTAR POWER PLANT 69KV		50	-0.08758	AEPW	NORTHEASTERN STATION 138KV	95	0.00807	-0.09565	6
AEPW	LONESTAR POWER PLANT 69KV		50	-0.08758	AEPW	NORTHEASTERN STATION 138KV	405	0.00807	-0.09565	6
AEPW	LONESTAR POWER PLANT 69KV		50	-0.08758	AEPW	NORTHEASTERN STATION 345KV	645	0.00807	-0.09565	6
AEPW	LONESTAR POWER PLANT 69KV		50	-0.08758	AEPW	OEC 345KV	256	0.00854	-0.09612	6
AEPW	LONESTAR POWER PLANT 69KV		50	-0.08758	AEPW	RIVERSIDE STATION 138KV	646	0.00877	-0.09635	6
AEPW	LONESTAR POWER PLANT 69KV		50	-0.08758	AEPW	TULSA POWER STATION 138KV	147	0.0087	-0.09628	6
AEPW	LONESTAR POWER PLANT 69KV		50	-0.08758	AEPW	TULSA POWER STATION 138KV	85	0.0087	-0.09628	6
AEPW	LONESTAR POWER PLANT 69KV		50	-0.08758	AEPW	WELEETKA 138KV	70	0.00961	-0.09719	6
AEPW	LONESTAR POWER PLANT 69KV		50	-0.08758	AEPW	LEBROCK 345KV	365	-0.00885	-0.07873	7
AEPW	LONESTAR POWER PLANT 69KV		50	-0.08758	AEPW	NARROWS 69KV	22	-0.00837	-0.07921	7
AEPW	LONESTAR POWER PLANT 69KV		50	-0.08758	AEPW	PIRKEY GENERATION 138KV	475	-0.01311	-0.07447	7
AEPW	WILKES 138KV		116.8137	-0.06077	AEPW	COMANCHE 138KV	160	0.01244	-0.07321	7
AEPW	WILKES 138KV		116.8137	-0.06077	AEPW	COMANCHE 69KV	63	0.01239	-0.07316	7
AEPW	WILKES 138KV		116.8137	-0.06077	AEPW	SOUTHWESTERN STATION 138KV	327	0.01212	-0.07289	7
AEPW	WILKES 138KV		116.8137	-0.06077	AEPW	WELSH 345KV	990	0.01228	-0.07305	7
AEPW	LONESTAR POWER PLANT 69KV		50	-0.08758	AEPW	ARSENAL HILL 69KV	15	-0.02242	-0.06516	8
AEPW	LONESTAR POWER PLANT 69KV		50	-0.08758	AEPW	EASTMAN 138KV	155	-0.01562	-0.07196	8
AEPW	LONESTAR POWER PLANT 69KV		50	-0.08758	AEPW	KNOXLEE 138KV	248.6821	-0.01564	-0.07194	8
AEPW	LONESTAR POWER PLANT 69KV		50	-0.08758	AEPW	WILKES 345KV	311	-0.01738	-0.0702	8
AEPW	WILKES 138KV		116.8137	-0.06077	AEPW	COGENTRIX 345KV	665	0.00882	-0.06959	8
AEPW	WILKES 138KV		116.8137	-0.06077	AEPW	FITZHUGH 161KV	126	0.00382	-0.06459	8
AEPW	WILKES 138KV		116.8137	-0.06077	AEPW	FLINT CREEK 161KV	420	0.00713	-0.0679	8
AEPW	WILKES 138KV		116.8137	-0.06077	AEPW	NORTHEASTERN STATION 138KV	405	0.00807	-0.06884	8
AEPW	WILKES 138KV		116.8137	-0.06077	AEPW	NORTHEASTERN STATION 138KV	95	0.00807	-0.06884	8
AEPW	WILKES 138KV		116.8137	-0.06077	AEPW	NORTHEASTERN STATION 345KV	645	0.00807	-0.06884	8
AEPW	WILKES 138KV		116.8137	-0.06077	AEPW	OEC 345KV	256	0.00854	-0.06931	8
AEPW	WILKES 138KV		116.8137	-0.06077	AEPW	RIVERSIDE STATION 138KV	646	0.00877	-0.06954	8
AEPW	WILKES 138KV		116.8137	-0.06077	AEPW	TULSA POWER STATION 138KV	85	0.0087	-0.06947	8
AEPW	WILKES 138KV		116.8137	-0.06077	AEPW	TULSA POWER STATION 138KV	147	0.0087	-0.06947	8
AEPW	WILKES 138KV		116.8137	-0.06077	AEPW	WEATHERFORD 34KV	148	0.01152	-0.07229	8
AEPW	WILKES 138KV		116.8137	-0.06077	AEPW	WELEETKA 138KV	70	0.00961	-0.07038	8
AEPW	LONESTAR POWER PLANT 69KV		50	-0.08758	AEPW	LIEBERMAN 138KV	91	-0.02651	-0.06107	9
AEPW	WILKES 138KV		116.8137	-0.06077	AEPW	LEBROCK 345KV	365	-0.00885	-0.05192	10
AEPW	WILKES 138KV		116.8137	-0.06077	AEPW	PIRKEY GENERATION 138KV	475	-0.01311	-0.04766	11
AEPW	WILKES 138KV		116.8137	-0.06077	AEPW	EASTMAN 138KV	155	-0.01562	-0.04515	12
AEPW	WILKES 138KV		116.8137	-0.06077	AEPW	KNOXLEE 138KV	248.6821	-0.01564	-0.04513	12
AEPW	WILKES 138KV		116.8137	-0.06077	AEPW	WILKES 345KV	311	-0.01738	-0.04339	13
AEPW	LIEBERMAN 138KV		137	-0.02651	AEPW	COMANCHE 138KV	160	0.01244	-0.03985	14
AEPW	LIEBERMAN 138KV		137	-0.02651	AEPW	COMANCHE 69KV	63	0.01239	-0.0398	14
AEPW	LIEBERMAN 138KV		137	-0.02651	AEPW	SOUTHWESTERN STATION 138KV	327	0.01212	-0.03863	14
AEPW	LIEBERMAN 138KV		137	-0.02651	AEPW	WEATHERFORD 34KV	148	0.01152	-0.03803	14
AEPW	LIEBERMAN 138KV		137	-0.02651	AEPW	WELSH 345KV	990	0.01228	-0.03879	14
AEPW	NORTH MARSHALL 69KV		5	-0.02747	AEPW	COMANCHE 138KV	160	0.01244	-0.03991	14
AEPW	NORTH MARSHALL 69KV		5	-0.02747	AEPW	COMANCHE 69KV	63	0.01239	-0.03986	14
AEPW	NORTH MARSHALL 69KV		5	-0.02747	AEPW	SOUTHWESTERN STATION 138KV	327	0.01212	-0.03959	14
AEPW	NORTH MARSHALL 69KV		5	-0.02747	AEPW	WEATHERFORD 34KV	148	0.01152	-0.03899	14
AEPW	NORTH MARSHALL 69KV		5	-0.02747	AEPW	WELSH 345KV	990	0.01228	-0.03975	14
AEPW	LIEBERMAN 138KV		137	-0.02651	AEPW	COGENTRIX 345KV	665	0.00882	-0.03533	15
AEPW	LIEBERMAN 138KV		137	-0.02651	AEPW	RIVERSIDE STATION 138KV	646	0.00877	-0.03528	15
AEPW	LIEBERMAN 138KV		137	-0.02651	AEPW	TULSA POWER STATION 138KV	85	0.0087	-0.03521	15
AEPW	LIEBERMAN 138KV		137	-0.02651	AEPW	TULSA POWER STATION 138KV	147	0.0087	-0.03521	15
AEPW	LIEBERMAN 138KV		137	-0.02651	AEPW	WELEETKA 138KV	70	0.00961	-0.03612	15
AEPW	NORTH MARSHALL 69KV		5	-0.02747	AEPW	COGENTRIX 345KV	665	0.00882	-0.03629	15
AEPW	NORTH MARSHALL 69KV		5	-0.02747	AEPW	NORTHEASTERN STATION 138KV	405	0.00807	-0.03554	15
AEPW	NORTH MARSHALL 69KV		5	-0.02747	AEPW	NORTHEASTERN STATION 138KV	95	0.00807	-0.03554	15
AEPW	NORTH MARSHALL 69KV		5	-0.02747	AEPW	NORTHEASTERN STATION 345KV	645	0.00807	-0.03554	15
AEPW	NORTH MARSHALL 69KV		5	-0.02747	AEPW	OEC 345KV	256	0.00854	-0.03601	15
AEPW	NORTH MARSHALL 69KV		5	-0.02747	AEPW	RIVERSIDE STATION 138KV	646	0.00877	-0.03624	15
AEPW	NORTH MARSHALL 69KV		5	-0.02747	AEPW	TULSA POWER STATION 138KV	85	0.0087	-0.03617	15
AEPW	NORTH MARSHALL 69KV		5	-0.02747	AEPW	TULSA POWER STATION 138KV	147	0.0087	-0.03617	15
AEPW	NORTH MARSHALL 69KV		5	-0.02747	AEPW	WELEETKA 138KV	70	0.00961	-0.03708	15
AEPW	ARSENAL HILL 69KV		75	-0.02242	AEPW	COMANCHE 138KV	160	0.01244	-0.03486	16
AEPW	ARSENAL HILL 69KV		75	-0.02242	AEPW	COMANCHE 69KV	63	0.01239	-0.03481	16
AEPW	ARSENAL HILL 69KV		75	-0.02242	AEPW	SOUTHWESTERN STATION 138KV	327	0.01212	-0.03454	16
AEPW	ARSENAL HILL 69KV		75	-0.02242	AEPW	WEATHERFORD 34KV	148	0.01152	-0.03394	16
AEPW	ARSENAL HILL 69KV		75	-0.02242	AEPW	WELSH 345KV	990	0.01228	-0.0347	16
AEPW	LIEBERMAN 138KV		137	-0.02651	AEPW	FLINT CREEK 161KV	420	0.00713	-0.03364	16
AEPW	LIEBERMAN 138KV		137	-0.02651	AEPW	NORTHEASTERN STATION 138KV	95	0.00807	-0.03458	16
AEPW	LIEBERMAN 138KV		137	-0.02651	AEPW	NORTHEASTERN STATION 138KV	405	0.00807	-0.03458	16
AEPW	LIEBERMAN 138KV		137	-0.02651	AEPW	NORTHEASTERN STATION 345KV	645	0.00807	-0.03458	16
AEPW	WILKES 138KV		116.8137	-0.06077	AEPW	OEC 345KV	256	0.00854	-0.03505	16
AEPW	WILKES 138KV		116.8137	-0.06077	AEPW	LIEBERMAN 138KV	91	-0.02651	-0.03426	16
AEPW	ARSENAL HILL 69KV		75	-0.02242	AEPW	COGENTRIX 345KV	665	0.00882	-0.03124	17
AEPW	ARSENAL HILL 69KV		75	-0.02242	AEPW	RIVERSIDE STATION 138KV	646	0.00877	-0.03119	17
AEPW	ARSENAL HILL 69KV		75	-0.02242	AEPW	TULSA POWER STATION 138KV	147	0.0087	-0.03112	17
AEPW	ARSENAL HILL 69KV		75	-0.02242	AEPW	TULSA POWER STATION 138KV	85	0.0087	-0.03112	17
AEPW	ARSENAL HILL 69KV		75	-0.02242	AEPW	WELEETKA 138KV	70	0.00961	-0.03203	17
AEPW	ARSENAL HILL 69KV		75	-0.02242	AEPW	NORTHEASTERN STATION 138KV	95	0.00807	-0.03049	18
AEPW	ARSENAL HILL 69KV		75	-0.02242	AEPW	NORTHEASTERN STATION 138KV	405	0.00807	-0.03049	18
AEPW	ARSENAL HILL 69KV		75	-0.02242	AEPW	NORTHEASTERN STATION 345KV	645	0.00807	-0.03049	18
AEPW	ARSENAL HILL 69KV		75	-0.02242	AEPW	OEC 345KV	256	0.00854	-0.03096	18
AEPW	LIEBERMAN 138KV		137	-0.02651	AEPW	FITZHUGH 161KV	126	0.00382	-0.03033	18

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

Upgrade: ALUMAX TAP - NORTHWEST TEXARKANA 138KV CKT 1
 Limiting Facility: ALUMAX TAP - NORTHWEST TEXARKANA 138KV CKT 1
 Direction: To->From
 Line Outage: SPP-AEPW-29
 Flowgate: 53245533001SPP-AEPW-291307SP
 Date Redispatch Needed: 6/1/07 - 10/1/07
 Season Flowgate Identified: 2007 Summer Peak

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

Reservation	Relief Amount	Aggregate Relief Amount							
1086238	0.6	0.6							
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
AEPW	LONESTAR POWER PLANT 69KV	50	-0.08758	AEPW	COGENTRIX 345KV	865	0.00882	-0.0964	6
AEPW	LONESTAR POWER PLANT 69KV	50	-0.08758	AEPW	COMANCHE 138KV	160	0.01244	-0.1002	6
AEPW	LONESTAR POWER PLANT 69KV	50	-0.08758	AEPW	COMANCHE 69KV	63	0.01239	-0.0997	6
AEPW	LONESTAR POWER PLANT 69KV	50	-0.08758	AEPW	FITZHUGH 161KV	126	0.00382	-0.0914	6
AEPW	LONESTAR POWER PLANT 69KV	50	-0.08758	AEPW	FLINT CREEK 161KV	420	0.00713	-0.09471	6
AEPW	LONESTAR POWER PLANT 69KV	50	-0.08758	AEPW	L&D13 69KV	11	0.00482	-0.0924	6
AEPW	LONESTAR POWER PLANT 69KV	50	-0.08758	AEPW	NORTHEASTERN STATION 138KV	405	0.00807	-0.09565	6
AEPW	LONESTAR POWER PLANT 69KV	50	-0.08758	AEPW	NORTHEASTERN STATION 138KV	95	0.00807	-0.09565	6
AEPW	LONESTAR POWER PLANT 69KV	50	-0.08758	AEPW	NORTHEASTERN STATION 345KV	645	0.00807	-0.09565	6
AEPW	LONESTAR POWER PLANT 69KV	50	-0.08758	AEPW	OEC 345KV	269	0.00854	-0.09612	6
AEPW	LONESTAR POWER PLANT 69KV	50	-0.08758	AEPW	RIVERSIDE STATION 138KV	722	0.00877	-0.09635	6
AEPW	LONESTAR POWER PLANT 69KV	50	-0.08758	AEPW	SOUTHWESTERN STATION 138KV	408	0.01212	-0.0997	6
AEPW	LONESTAR POWER PLANT 69KV	50	-0.08758	AEPW	TULSA POWER STATION 138KV	147	0.0087	-0.09628	6
AEPW	LONESTAR POWER PLANT 69KV	50	-0.08758	AEPW	TULSA POWER STATION 138KV	147	0.0087	-0.09628	6
AEPW	LONESTAR POWER PLANT 69KV	50	-0.08758	AEPW	WEELETKA 138KV	70	0.00961	-0.09719	6
AEPW	LONESTAR POWER PLANT 69KV	50	-0.08758	AEPW	WELSH 345KV	990	0.01228	-0.09986	6
AEPW	LONESTAR POWER PLANT 69KV	50	-0.08758	AEPW	LEBRONCK 345KV	365	-0.00885	-0.07873	7
AEPW	LONESTAR POWER PLANT 69KV	50	-0.08758	AEPW	EASTMAN 138KV	155	-0.01562	-0.07196	8
AEPW	LONESTAR POWER PLANT 69KV	50	-0.08758	AEPW	KNOXLEE 138KV	284	-0.01564	-0.07194	8
AEPW	LONESTAR POWER PLANT 69KV	50	-0.08758	AEPW	PIRKEY GENERATION 138KV	475	-0.01311	-0.07447	8
AEPW	LONESTAR POWER PLANT 69KV	50	-0.08758	AEPW	WILKES 345KV	311	-0.01738	-0.0702	8
AEPW	WILKES 138KV	31.09137	-0.06077	AEPW	COGENTRIX 345KV	865	0.00882	-0.06959	8
AEPW	WILKES 138KV	31.09137	-0.06077	AEPW	COMANCHE 138KV	160	0.01244	-0.07321	8
AEPW	WILKES 138KV	31.09137	-0.06077	AEPW	COMANCHE 69KV	63	0.01239	-0.07316	8
AEPW	WILKES 138KV	31.09137	-0.06077	AEPW	NORTHEASTERN STATION 138KV	405	0.00807	-0.06884	8
AEPW	WILKES 138KV	31.09137	-0.06077	AEPW	NORTHEASTERN STATION 138KV	95	0.00807	-0.06884	8
AEPW	WILKES 138KV	31.09137	-0.06077	AEPW	NORTHEASTERN STATION 345KV	645	0.00807	-0.06884	8
AEPW	WILKES 138KV	31.09137	-0.06077	AEPW	OEC 345KV	269	0.00854	-0.06931	8
AEPW	WILKES 138KV	31.09137	-0.06077	AEPW	RIVERSIDE STATION 138KV	722	0.00877	-0.06954	8
AEPW	WILKES 138KV	31.09137	-0.06077	AEPW	SOUTHWESTERN STATION 138KV	408	0.01212	-0.07289	8
AEPW	WILKES 138KV	31.09137	-0.06077	AEPW	TULSA POWER STATION 138KV	147	0.0087	-0.06947	8
AEPW	WILKES 138KV	31.09137	-0.06077	AEPW	TULSA POWER STATION 138KV	147	0.0087	-0.06947	8
AEPW	WILKES 138KV	31.09137	-0.06077	AEPW	WEELETKA 138KV	70	0.00961	-0.07038	8
AEPW	WILKES 138KV	31.09137	-0.06077	AEPW	WELSH 345KV	990	0.01228	-0.07305	8
AEPW	LONESTAR POWER PLANT 69KV	50	-0.08758	AEPW	ARSENAL HILL 69KV	48.16992	-0.02242	-0.06516	9
AEPW	WILKES 138KV	31.09137	-0.06077	AEPW	FITZHUGH 161KV	126	0.00382	-0.06459	9
AEPW	WILKES 138KV	31.09137	-0.06077	AEPW	FLINT CREEK 161KV	420	0.00713	-0.0679	9
AEPW	LONESTAR POWER PLANT 69KV	50	-0.08758	AEPW	LIEBERMAN 138KV	159	-0.02651	-0.06107	10
AEPW	WILKES 138KV	31.09137	-0.06077	AEPW	LEBRONCK 345KV	365	-0.00885	-0.05192	11
AEPW	WILKES 138KV	31.09137	-0.06077	AEPW	PIRKEY GENERATION 138KV	475	-0.01311	-0.04766	12
AEPW	WILKES 138KV	31.09137	-0.06077	AEPW	EASTMAN 138KV	155	-0.01562	-0.04513	13
AEPW	WILKES 138KV	31.09137	-0.06077	AEPW	KNOXLEE 138KV	284	-0.01564	-0.04513	13
AEPW	WILKES 138KV	31.09137	-0.06077	AEPW	WILKES 345KV	311	-0.01738	-0.04339	13
AEPW	LIEBERMAN 138KV	69	-0.02651	AEPW	COMANCHE 138KV	160	0.01244	-0.03895	15
AEPW	LIEBERMAN 138KV	69	-0.02651	AEPW	COMANCHE 69KV	63	0.01239	-0.0389	15
AEPW	LIEBERMAN 138KV	69	-0.02651	AEPW	SOUTHWESTERN STATION 138KV	408	0.01212	-0.03863	15
AEPW	LIEBERMAN 138KV	69	-0.02651	AEPW	WELSH 345KV	990	0.01228	-0.03879	15
AEPW	NORTH MARSHALL 69KV	5	-0.02747	AEPW	COMANCHE 138KV	160	0.01244	-0.03991	15
AEPW	NORTH MARSHALL 69KV	5	-0.02747	AEPW	COMANCHE 69KV	63	0.01239	-0.03986	15
AEPW	NORTH MARSHALL 69KV	5	-0.02747	AEPW	SOUTHWESTERN STATION 138KV	408	0.01212	-0.03959	15
AEPW	NORTH MARSHALL 69KV	5	-0.02747	AEPW	WELSH 345KV	990	0.01228	-0.03975	15
AEPW	WILKES 138KV	31.09137	-0.06077	AEPW	ARSENAL HILL 69KV	48.16992	-0.02242	-0.03835	15
AEPW	LIEBERMAN 138KV	69	-0.02651	AEPW	COGENTRIX 345KV	865	0.00882	-0.03533	16
AEPW	LIEBERMAN 138KV	69	-0.02651	AEPW	WEELETKA 138KV	70	0.00961	-0.03612	16
AEPW	ARSENAL HILL 69KV	41.83008	-0.02242	AEPW	COMANCHE 138KV	160	0.01244	-0.03486	17
AEPW	ARSENAL HILL 69KV	41.83008	-0.02242	AEPW	COMANCHE 69KV	63	0.01239	-0.03481	17
AEPW	ARSENAL HILL 69KV	41.83008	-0.02242	AEPW	SOUTHWESTERN STATION 138KV	408	0.01212	-0.03454	17
AEPW	ARSENAL HILL 69KV	41.83008	-0.02242	AEPW	WELSH 345KV	990	0.01228	-0.0347	17
AEPW	LIEBERMAN 138KV	69	-0.02651	AEPW	FLINT CREEK 161KV	420	0.00713	-0.03364	17
AEPW	LIEBERMAN 138KV	69	-0.02651	AEPW	NORTHEASTERN STATION 138KV	95	0.00807	-0.03458	17
AEPW	LIEBERMAN 138KV	69	-0.02651	AEPW	NORTHEASTERN STATION 138KV	405	0.00807	-0.03458	17
AEPW	LIEBERMAN 138KV	69	-0.02651	AEPW	NORTHEASTERN STATION 345KV	645	0.00807	-0.03458	17
AEPW	LIEBERMAN 138KV	69	-0.02651	AEPW	OEC 345KV	269	0.00854	-0.03505	17
AEPW	LIEBERMAN 138KV	69	-0.02651	AEPW	RIVERSIDE STATION 138KV	722	0.00877	-0.03528	17
AEPW	LIEBERMAN 138KV	69	-0.02651	AEPW	TULSA POWER STATION 138KV	147	0.0087	-0.03521	17
AEPW	LIEBERMAN 138KV	69	-0.02651	AEPW	TULSA POWER STATION 138KV	147	0.0087	-0.03521	17
AEPW	WILKES 138KV	31.09137	-0.06077	AEPW	LIEBERMAN 138KV	159	-0.02651	-0.03426	17
AEPW	ARSENAL HILL 69KV	41.83008	-0.02242	AEPW	WEELETKA 138KV	70	0.00961	-0.03203	18
AEPW	ARSENAL HILL 69KV	41.83008	-0.02242	AEPW	COGENTRIX 345KV	865	0.00882	-0.03124	19
AEPW	ARSENAL HILL 69KV	41.83008	-0.02242	AEPW	NORTHEASTERN STATION 138KV	95	0.00807	-0.03149	19
AEPW	ARSENAL HILL 69KV	41.83008	-0.02242	AEPW	NORTHEASTERN STATION 138KV	405	0.00807	-0.03049	19
AEPW	ARSENAL HILL 69KV	41.83008	-0.02242	AEPW	NORTHEASTERN STATION 345KV	645	0.00807	-0.03049	19
AEPW	ARSENAL HILL 69KV	41.83008	-0.02242	AEPW	OEC 345KV	269	0.00854	-0.03096	19
AEPW	ARSENAL HILL 69KV	41.83008	-0.02242	AEPW	RIVERSIDE STATION 138KV	722	0.00877	-0.03119	19
AEPW	ARSENAL HILL 69KV	41.83008	-0.02242	AEPW	TULSA POWER STATION 138KV	147	0.0087	-0.03112	19
AEPW	ARSENAL HILL 69KV	41.83008	-0.02242	AEPW	TULSA POWER STATION 138KV	147	0.0087	-0.03112	19
AEPW	LIEBERMAN 138KV	69	-0.02651	AEPW	FITZHUGH 161KV	126	0.00382	-0.03033	19
AEPW	LIEBERMAN 138KV	69	-0.02651	AEPW	L&D13 69KV	11	0.00482	-0.03133	19

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

Upgrade: 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: 57217573371587595861142075H
 Date Redispatch Needed: 6/1 - 10/1 Until EOC of Upgrade
 Season Flowgate Identified: 2007 Summer Shoulder

Reservation	Relief Amount	Aggregate Relief Amount							
1090817	1.1	3.0							
1090964	1.5	3.0							
1090965	0.4	3.0							
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
WERE	SOUTH SENECA 115KV	16.7	-0.86947	WERE	CHANUTE 69KV	46.617	-0.00046	-0.86901	3
WERE	SOUTH SENECA 115KV	16.7	-0.86947	WERE	CITY OF AUGUSTA 69KV	20.02	0.00074	-0.87021	3
WERE	SOUTH SENECA 115KV	16.7	-0.86947	WERE	CITY OF BURLINGTON 69KV	4.8	-0.00075	-0.86872	3
WERE	SOUTH SENECA 115KV	16.7	-0.86947	WERE	CITY OF ERIE 69KV	23.258	-0.00046	-0.86901	3
WERE	SOUTH SENECA 115KV	16.7	-0.86947	WERE	CITY OF FREDONIA 69KV	2.496	-0.00041	-0.86906	3
WERE	SOUTH SENECA 115KV	16.7	-0.86947	WERE	CITY OF GIRARD 69KV	2.989	-0.00069	-0.86878	3
WERE	SOUTH SENECA 115KV	16.7	-0.86947	WERE	CITY OF IOLA 69KV	19.865	-0.0005	-0.86897	3
WERE	SOUTH SENECA 115KV	16.7	-0.86947	WERE	CITY OF MULVANE 69KV	6.189	-0.00131	-0.86816	3
WERE	SOUTH SENECA 115KV	16.7	-0.86947	WERE	CLAY CENTER JUNCTION 115KV	11.825	-0.01018	-0.85929	3
WERE	SOUTH SENECA 115KV	16.7	-0.86947	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.96	-0.00075	-0.86872	3
WERE	SOUTH SENECA 115KV	16.7	-0.86947	WERE	EVANS ENERGY CENTER 138KV	319.4861	-0.00154	-0.86793	3
WERE	SOUTH SENECA 115KV	16.7	-0.86947	WERE	GILL ENERGY CENTER 138KV	155	-0.00221	-0.86726	3

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

WERE	'SOUTH SENECA 115KV'	16.7	-0.86947	WERE	JEFFREY ENERGY CENTER 230KV'	470	-0.00344	-0.86603	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.86947	WERE	JEFFREY ENERGY CENTER 345KV'	940	-0.00347	-0.866	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.86947	WERE	LAWRENCE ENERGY CENTER 230KV'	226.844	-0.00137	-0.8681	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.86947	WERE	TECUMSEH ENERGY CENTER 115KV'	108	-0.00054	-0.86893	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.86947	WERE	WACO 138KV'	17.947	-0.00214	-0.86733	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.86947	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.01327	-0.8562	4
WEPL	'SMITH CENTER 115KV'	6.15	-0.28859	WEPL	'GRAY COUNTY WIND FARM 115KV'	73	-0.02828	-0.26031	12
WEPL	'SMITH CENTER 115KV'	6.15	-0.28859	WEPL	'JUDSON LARGE 115KV'	99.37093	-0.02824	-0.26035	12
WEPL	'RUSSELL 115KV'	27.9	-0.14122	WEPL	'GRAY COUNTY WIND FARM 115KV'	73	-0.02828	-0.11294	27
WEPL	'RUSSELL 115KV'	27.9	-0.14122	WEPL	'JUDSON LARGE 115KV'	99.37093	-0.02824	-0.11298	27
WEPL	'RUSSELL 115KV'	27.9	-0.14122	WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	-0.05418	-0.08704	35

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

Upgrade: 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: 57217573371CONCNCORD66312207SH
 Date Redispatch Needed: 6/1 - 10/1 Until EOC of Upgrade
 Season Flowgate Identified: 2007 Summer Shoulder

Reservation	Relief Amount	Aggregate Relief Amount
1090817	1.1	3.0
1090964	1.5	3.0
1090965	0.4	3.0

Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
WERE	'SOUTH SENECA 115KV'	16.7	-0.86947	WERE	'CHANUTE 69KV'	46.617	-0.00046	-0.86901	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.86947	WERE	'CITY OF BURLINGTON 69KV'	4.8	-0.00075	-0.86872	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.86947	WERE	'CITY OF ERIE 69KV'	23.258	-0.00046	-0.86901	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.86947	WERE	'CITY OF FREDONIA 69KV'	2.496	-0.00041	-0.86906	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.86947	WERE	'CITY OF GIRARD 69KV'	2.989	-0.00069	-0.86878	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.86947	WERE	'CITY OF IOLA 69KV'	19.865	-0.0005	-0.86897	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.86947	WERE	'CITY OF MULVANE 69KV'	6.189	-0.00131	-0.86816	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.86947	WERE	'CITY OF WELLINGTON 69KV'	31.07001	-0.00166	-0.86781	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.86947	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	-0.00075	-0.86872	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.86947	WERE	'EVANS ENERGY CENTER 138KV'	305	-0.00154	-0.86793	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.86947	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00221	-0.86726	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.86947	WERE	'JEFFREY ENERGY CENTER 230KV'	470	-0.00344	-0.86603	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.86947	WERE	'JEFFREY ENERGY CENTER 345KV'	940	-0.00347	-0.866	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.86947	WERE	'LAWRENCE ENERGY CENTER 230KV'	230.1422	-0.00137	-0.8681	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.86947	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	-0.00054	-0.86893	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.86947	WERE	'WACO 138KV'	17.947	-0.00214	-0.86733	3
WEPL	'RUSSELL 115KV'	27.9	-0.14122	WEPL	'GRAY COUNTY WIND FARM 115KV'	73	-0.02828	-0.11294	27
WEPL	'RUSSELL 115KV'	27.9	-0.14122	WEPL	'JUDSON LARGE 115KV'	99.89984	-0.02824	-0.11298	27

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: HOYT - STRANGER CREEK 345KV CKT 1
 Flowgate: 5715257165157655677211108WP
 Date Redispatch Needed: Starting 2008 12/1 - 4/1 Until EOC
 Season Flowgate Identified: 2008 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090325	1.0	1.2
1090327	0.2	1.2

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	-0.65112	WERE	'CHANUTE 69KV'	34.903	0.00574	-0.65686	2
WERE	'HOLTON 115KV'	19.8	-0.65112	WERE	'CITY OF AUGUSTA 69KV'	15.285	0.0018	-0.65292	2
WERE	'HOLTON 115KV'	19.8	-0.65112	WERE	'CITY OF BURLINGTON 69KV'	4.8	0.01001	-0.66113	2
WERE	'HOLTON 115KV'	19.8	-0.65112	WERE	'CITY OF ERIE 69KV'	2.059	0.00574	-0.65686	2
WERE	'HOLTON 115KV'	19.8	-0.65112	WERE	'CITY OF FREDONIA 69KV'	1.275	0.00521	-0.65633	2
WERE	'HOLTON 115KV'	19.8	-0.65112	WERE	'CITY OF GIRARD 69KV'	1.412	0.0064	-0.65752	2
WERE	'HOLTON 115KV'	19.8	-0.65112	WERE	'CITY OF IOLA 69KV'	19.902	0.00615	-0.65727	2
WERE	'HOLTON 115KV'	19.8	-0.65112	WERE	'CITY OF MULVANE 69KV'	3.921	0.00857	-0.65969	2
WERE	'HOLTON 115KV'	19.8	-0.65112	WERE	'CITY OF WELLINGTON 69KV'	20	0.00825	-0.65937	2
WERE	'HOLTON 115KV'	19.8	-0.65112	WERE	'CLAY CENTER JUNCTION 115KV'	6.7	0.04407	-0.69519	2
WERE	'HOLTON 115KV'	19.8	-0.65112	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.61	0.01001	-0.66113	2
WERE	'HOLTON 115KV'	19.8	-0.65112	WERE	'EVANS ENERGY CENTER 138KV'	239.1436	0.01102	-0.66214	2
WERE	'HOLTON 115KV'	19.8	-0.65112	WERE	'GILL ENERGY CENTER 138KV'	77	0.00965	-0.66077	2
WERE	'HOLTON 115KV'	19.8	-0.65112	WERE	'HUTCHINSON ENERGY CENTER 115KV'	40	0.0345	-0.68562	2
WERE	'HOLTON 115KV'	19.8	-0.65112	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0534	-0.70646	2
WERE	'HOLTON 115KV'	19.8	-0.65112	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.06018	-0.7113	2
WERE	'HOLTON 115KV'	19.8	-0.65112	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.03303	-0.68415	2
WERE	'HOLTON 115KV'	19.8	-0.65112	WERE	'LAWRENCE ENERGY CENTER 230KV'	214.6543	0.03544	-0.68656	2
WERE	'HOLTON 115KV'	19.8	-0.65112	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.05974	-0.71086	2
WERE	'HOLTON 115KV'	19.8	-0.65112	WERE	'WACO 138KV'	17.414	0.00979	-0.66091	2
WERE	'BROWN COUNTY 115KV'	5.5	-0.29959	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0534	-0.35493	3
WERE	'BROWN COUNTY 115KV'	5.5	-0.29959	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.06018	-0.35977	3
WERE	'BROWN COUNTY 115KV'	5.5	-0.29959	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.05974	-0.35933	3
WERE	'BROWN COUNTY 115KV'	5.5	-0.29959	WERE	'CHANUTE 69KV'	34.903	0.00574	-0.30533	4
WERE	'BROWN COUNTY 115KV'	5.5	-0.29959	WERE	'CITY OF AUGUSTA 69KV'	15.285	0.0018	-0.30139	4
WERE	'BROWN COUNTY 115KV'	5.5	-0.29959	WERE	'CITY OF BURLINGTON 69KV'	4.8	0.01001	-0.3006	4
WERE	'BROWN COUNTY 115KV'	5.5	-0.29959	WERE	'CITY OF ERIE 69KV'	2.059	0.00574	-0.30533	4
WERE	'BROWN COUNTY 115KV'	5.5	-0.29959	WERE	'CITY OF GIRARD 69KV'	1.412	0.0064	-0.30599	4
WERE	'BROWN COUNTY 115KV'	5.5	-0.29959	WERE	'CITY OF IOLA 69KV'	19.902	0.00615	-0.30574	4
WERE	'BROWN COUNTY 115KV'	5.5	-0.29959	WERE	'CITY OF MULVANE 69KV'	3.921	0.00857	-0.30816	4
WERE	'BROWN COUNTY 115KV'	5.5	-0.29959	WERE	'CITY OF WELLINGTON 69KV'	20	0.00825	-0.30784	4
WERE	'BROWN COUNTY 115KV'	5.5	-0.29959	WERE	'CLAY CENTER JUNCTION 115KV'	6.7	0.04407	-0.34366	4
WERE	'BROWN COUNTY 115KV'	5.5	-0.29959	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.61	0.01001	-0.3096	4
WERE	'BROWN COUNTY 115KV'	5.5	-0.29959	WERE	'EVANS ENERGY CENTER 138KV'	239.1436	0.01102	-0.31061	4
WERE	'BROWN COUNTY 115KV'	5.5	-0.29959	WERE	'GILL ENERGY CENTER 138KV'	77	0.00965	-0.30924	4
WERE	'BROWN COUNTY 115KV'	5.5	-0.29959	WERE	'HUTCHINSON ENERGY CENTER 115KV'	40	0.0345	-0.33409	4
WERE	'BROWN COUNTY 115KV'	5.5	-0.29959	WERE	'LAWRENCE ENERGY CENTER 115KV'	60	0.03303	-0.33262	4
WERE	'BROWN COUNTY 115KV'	5.5	-0.29959	WERE	'LAWRENCE ENERGY CENTER 230KV'	214.6543	0.03544	-0.33503	4
WERE	'BROWN COUNTY 115KV'	5.5	-0.29959	WERE	'WACO 138KV'	17.414	0.00979	-0.30938	4
WERE	'SOUTH SENECA 115KV'	16.7	-0.27055	WERE	'CHANUTE 69KV'	34.903	0.00574	-0.27629	4
WERE	'SOUTH SENECA 115KV'	16.7	-0.27055	WERE	'CITY OF AUGUSTA 69KV'	15.285	0.0018	-0.27235	4
WERE	'SOUTH SENECA 115KV'	16.7	-0.27055	WERE	'CITY OF BURLINGTON 69KV'	4.8	0.01001	-0.28056	4
WERE	'SOUTH SENECA 115KV'	16.7	-0.27055	WERE	'CITY OF ERIE 69KV'	2.059	0.00574	-0.27629	4
WERE	'SOUTH SENECA 115KV'	16.7	-0.27055	WERE	'CITY OF GIRARD 69KV'	1.412	0.0064	-0.27695	4
WERE	'SOUTH SENECA 115KV'	16.7	-0.27055	WERE	'CITY OF IOLA 69KV'	19.902	0.00615	-0.2767	4
WERE	'SOUTH SENECA 115KV'	16.7	-0.27055	WERE	'CITY OF MULVANE 69KV'	3.921	0.00857	-0.27912	4
WERE	'SOUTH SENECA 115KV'	16.7	-0.27055	WERE	'CITY OF WELLINGTON 69KV'	20	0.00825	-0.2788	4
WERE	'SOUTH SENECA 115KV'	16.7	-0.27055	WERE	'CLAY CENTER JUNCTION 115KV'	6.7	0.04407	-0.31462	4

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

Source	Relief	Source GSF	Sink GSF	Factor	Aggregate Redispatch Amount (MW)
WERE 'SOUTH SENECA 115KV'	WERE 'COFFEY COUNTY NO. 2 SHARPE 69KV'	16.7	-0.27055	0.01001	-0.28056
WERE 'SOUTH SENECA 115KV'	WERE 'EVANS ENERGY CENTER 138KV'	16.7	-0.27055	0.01102	-0.28157
WERE 'SOUTH SENECA 115KV'	WERE 'GILL ENERGY CENTER 138KV'	16.7	-0.27055	0.00965	-0.28202
WERE 'SOUTH SENECA 115KV'	WERE 'HUTCHINSON ENERGY CENTER 115KV'	16.7	-0.27055	0.0345	-0.30505
WERE 'SOUTH SENECA 115KV'	WERE 'JEFFREY ENERGY CENTER 230KV'	16.7	-0.27055	0.05534	-0.32589
WERE 'SOUTH SENECA 115KV'	WERE 'JEFFREY ENERGY CENTER 345KV'	16.7	-0.27055	0.06018	-0.33073
WERE 'SOUTH SENECA 115KV'	WERE 'LAWRENCE ENERGY CENTER 115KV'	16.7	-0.27055	0.03303	-0.30358
WERE 'SOUTH SENECA 115KV'	WERE 'LAWRENCE ENERGY CENTER 230KV'	16.7	-0.27055	0.03544	-0.30599
WERE 'SOUTH SENECA 115KV'	WERE 'TECUMSEH ENERGY CENTER 115KV'	16.7	-0.27055	0.05974	-0.33029
WERE 'SOUTH SENECA 115KV'	WERE 'WACO 138KV'	16.7	-0.27055	0.00979	-0.28034
WEPL 'GREENLEAF 115KV'	WERE 'A. M. MULLERGREEN GENERATOR 115KV'	12.1	-0.12469	0.02016	-0.14485
WEPL 'GREENLEAF 115KV'	WERE 'GRAY COUNTY WIND FARM 115KV'	12.1	-0.12469	0.01087	-0.13556
WEPL 'GREENLEAF 115KV'	WERE 'JUDSON LARGE 115KV'	12.1	-0.12469	0.01087	-0.13556
WEPL 'GREENLEAF 115KV'	WERE 'PLAINVILLE 115KV'	12.1	-0.12469	0.01636	-0.14105
WEPL 'GREENLEAF 115KV'	WERE 'RUSSELL 115KV'	12.1	-0.12469	0.01194	-0.13663
WEPL 'GREENLEAF 115KV'	WERE 'SPEARVILLE WIND 34KV'	12.1	-0.12469	0.01095	-0.13564
WEPL 'GREENLEAF 115KV'	WERE 'SMITH CENTER 115KV'	12.1	-0.12469	0.00198	-0.12271
WEPL 'GREENLEAF 115KV'	WERE 'BELOIT 115KV'	12.1	-0.12469	0.00022	-0.01239
WEPL 'CLIFTON 115KV'	WERE 'A. M. MULLERGREEN GENERATOR 115KV'	70	-0.0839	0.02016	-0.10406
WEPL 'CLIFTON 115KV'	WERE 'PLAINVILLE 115KV'	70	-0.0839	0.01636	-0.10026
WEPL 'CLIFTON 115KV'	WERE 'GRAY COUNTY WIND FARM 115KV'	70	-0.0839	0.01087	-0.09477
WEPL 'CLIFTON 115KV'	WERE 'JUDSON LARGE 115KV'	70	-0.0839	0.01087	-0.09477
WEPL 'CLIFTON 115KV'	WERE 'RUSSELL 115KV'	70	-0.0839	0.01194	-0.09584
WEPL 'CLIFTON 115KV'	WERE 'SPEARVILLE WIND 34KV'	70	-0.0839	0.01095	-0.09485
WEPL 'CLIFTON 115KV'	WERE 'BELOIT 115KV'	70	-0.0839	0.00123	-0.01151
WERE 'GETTY 69KV'	WERE 'JEFFREY ENERGY CENTER 345KV'	35	-0.0028	0.06018	-0.06298
WERE 'GETTY 69KV'	WERE 'TECUMSEH ENERGY CENTER 115KV'	35	-0.0028	0.05974	-0.06254
WERE 'CITY OF AUGUSTA 69KV'	WERE 'JEFFREY ENERGY CENTER 345KV'	12.055	0.0018	0.06018	-0.05838
WERE 'CITY OF AUGUSTA 69KV'	WERE 'TECUMSEH ENERGY CENTER 115KV'	12.055	0.0018	0.05974	-0.05794
WERE 'GETTY 69KV'	WERE 'JEFFREY ENERGY CENTER 230KV'	35	-0.0028	0.05534	-0.05814
WERE 'CHANUTE 69KV'	WERE 'JEFFREY ENERGY CENTER 345KV'	52.897	0.00574	0.06018	-0.05444
WERE 'CHANUTE 69KV'	WERE 'TECUMSEH ENERGY CENTER 115KV'	52.897	0.00574	0.05974	-0.054
WERE 'CITY OF ERIE 69KV'	WERE 'JEFFREY ENERGY CENTER 345KV'	24.471	0.00574	0.06018	-0.05444
WERE 'CITY OF ERIE 69KV'	WERE 'TECUMSEH ENERGY CENTER 115KV'	24.471	0.00574	0.05974	-0.054
WERE 'CITY OF FREDONIA 69KV'	WERE 'JEFFREY ENERGY CENTER 345KV'	9.019	0.00521	0.06018	-0.05497
WERE 'CITY OF FREDONIA 69KV'	WERE 'TECUMSEH ENERGY CENTER 115KV'	9.019	0.00521	0.05974	-0.05453
WERE 'CITY OF GIRARD 69KV'	WERE 'JEFFREY ENERGY CENTER 345KV'	9.288	0.0064	0.06018	-0.05378
WERE 'CITY OF IOLA 69KV'	WERE 'JEFFREY ENERGY CENTER 345KV'	17.726	0.00615	0.06018	-0.05403
WERE 'NEOSHO ENERGY CENTER 138KV'	WERE 'JEFFREY ENERGY CENTER 345KV'	67	0.00643	0.06018	-0.05375
WERE 'CITY OF AUGUSTA 69KV'	WERE 'JEFFREY ENERGY CENTER 230KV'	12.055	0.0018	0.05534	-0.05354
WERE 'CITY OF GIRARD 69KV'	WERE 'TECUMSEH ENERGY CENTER 115KV'	9.288	0.0064	0.060001	-0.05334
WERE 'CITY OF IOLA 69KV'	WERE 'TECUMSEH ENERGY CENTER 115KV'	17.726	0.00615	0.05974	-0.05359
WERE 'CITY OF MULVANE 69KV'	WERE 'JEFFREY ENERGY CENTER 345KV'	11.869	0.00857	0.06018	-0.05161
WERE 'CITY OF WELLINGTON 69KV'	WERE 'JEFFREY ENERGY CENTER 345KV'	23.5	0.00825	0.06018	-0.05193
WERE 'CITY OF WELLINGTON 69KV'	WERE 'TECUMSEH ENERGY CENTER 115KV'	23.5	0.00825	0.060001	-0.05149
WERE 'CITY OF WINFIELD 69KV'	WERE 'JEFFREY ENERGY CENTER 345KV'	40	0.007	0.06018	-0.05318
WERE 'CITY OF WINFIELD 69KV'	WERE 'TECUMSEH ENERGY CENTER 115KV'	40	0.007	0.05974	-0.05274
WERE 'LATHAM1234.0 345KV'	WERE 'JEFFREY ENERGY CENTER 345KV'	150	0.0086	0.06018	-0.05158
WERE 'NEOSHO ENERGY CENTER 138KV'	WERE 'TECUMSEH ENERGY CENTER 115KV'	67	0.00643	0.05974	-0.05331
WERE 'CHANUTE 69KV'	WERE 'JEFFREY ENERGY CENTER 230KV'	52.897	0.00574	0.05534	-0.0496
WERE 'CITY OF ERIE 69KV'	WERE 'JEFFREY ENERGY CENTER 230KV'	24.471	0.00574	0.05534	-0.0496
WERE 'CITY OF FREDONIA 69KV'	WERE 'JEFFREY ENERGY CENTER 230KV'	9.019	0.00521	0.05534	-0.05013

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: LANG - WICHITA 345KV CKT 1
 Flowgate: 57152571651567695679614111WPP
 Date Redispatch Needed: 12/1/11 - 4/1/12
 Season Flowgate Identified: 2011 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)
1090416	0.1	0.1	WERE	'BROWN COUNTY 115KV'	5.5	-0.30902	WERE	'ABILENE ENERGY CENTER 115KV'	18.01685	0.02807	-0.33709	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.30902	WERE	'CHANUTE 69KV'	44.738	0.00301	-0.31203	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.30902	WERE	'CITY OF AUGUSTA 69KV'	12.42	-0.00748	-0.30154	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.30902	WERE	'CITY OF BURLINGTON 69KV'	1.08	0.00512	-0.31414	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.30902	WERE	'CITY OF ERIE 69KV'	4	0.00301	-0.31203	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.30902	WERE	'CITY OF GIRARD 69KV'	1.594	0.00454	-0.31356	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.30902	WERE	'CITY OF IOLA 69KV'	16.378	0.00406	-0.31308	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.30902	WERE	'CITY OF MULVANE 69KV'	4.394	-0.00189	-0.30713	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.30902	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00126	-0.30776	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.30902	WERE	'CLAY CENTER JUNCTION 115KV'	6.553006	0.02905	-0.33807	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.30902	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.00512	-0.31414	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.30902	WERE	'EVANS ENERGY CENTER 138KV'	305	-0.00121	-0.30781	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.30902	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00141	-0.30761	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.30902	WERE	'HUTCHINSON ENERGY CENTER 115KV'	80.00001	0.02106	-0.33008	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.30902	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03422	-0.34324	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.30902	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03659	-0.34561	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.30902	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	0.03033	-0.33935	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.30902	WERE	'LAWRENCE ENERGY CENTER 230KV'	223.889	0.03097	-0.33999	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.30902	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04627	-0.35529	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.30902	WERE	'WACO 138KV'	17.96	-0.00139	-0.30763	0
			WERE	'HOLTON 115KV'	19.8	-0.67011	WERE	'ABILENE ENERGY CENTER 115KV'	18.01685	0.02807	-0.69818	0
			WERE	'HOLTON 115KV'	19.8	-0.67011	WERE	'CHANUTE 69KV'	44.738	0.00301	-0.67312	0
			WERE	'HOLTON 115KV'	19.8	-0.67011	WERE	'CITY OF AUGUSTA 69KV'	12.42	-0.00748	-0.66263	0
			WERE	'HOLTON 115KV'	19.8	-0.67011	WERE	'CITY OF BURLINGTON 69KV'	1.08	0.00512	-0.67523	0
			WERE	'HOLTON 115KV'	19.8	-0.67011	WERE	'CITY OF ERIE 69KV'	4	0.00301	-0.67312	0
			WERE	'HOLTON 115KV'	19.8	-0.67011	WERE	'CITY OF GIRARD 69KV'	1.594	0.00454	-0.67465	0
			WERE	'HOLTON 115KV'	19.8	-0.67011	WERE	'CITY OF IOLA 69KV'	16.378	0.00406	-0.67417	0
			WERE	'HOLTON 115KV'	19.8	-0.67011	WERE	'CITY OF MULVANE 69KV'	4.394	-0.00189	-0.66822	0
			WERE	'HOLTON 115KV'	19.8	-0.67011	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00126	-0.66885	0
			WERE	'HOLTON 115KV'	19.8	-0.67011	WERE	'CLAY CENTER JUNCTION 115KV'	6.553006	0.02905	-0.69916	0
			WERE	'HOLTON 115KV'	19.8	-0.67011	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.00512	-0.67523	0
			WERE	'HOLTON 115KV'	19.8	-0.67011	WERE	'EVANS ENERGY CENTER 138KV'	305	-0.00121	-0.6689	0
			WERE	'HOLTON 115KV'	19.8	-0.67011	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00141	-0.6687	0
			WERE	'HOLTON 115KV'	19.8	-0.67011	WERE	'HUTCHINSON ENERGY CENTER 115KV'	80.00001	0.02106	-0.69117	0
			WERE	'HOLTON 115KV'	19.8	-0.67011	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03422	-0.70433	0
			WERE	'HOLTON 115KV'	19.8	-0.67011	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03659	-0.7067	0
			WERE	'HOLTON 115KV'	19.8	-0.67011	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	0.03033	-0.70044	0
			WERE	'HOLTON 115KV'	19.8	-0.67011	WERE	'LAWRENCE ENERGY CENTER 230KV'	223.889	0.03097	-0.70108	0
			WERE	'HOLTON 115KV'	19.8	-0.67011	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04627	-0.71638	0
			WERE	'HOLTON 115KV'	19.8	-0.67011	WERE	'WACO 138KV'	17.96	-0.00139	-0.66872	0
			WERE	'SOUTH SENECA 115KV'	16.7	-0.28058	WERE	'ABILENE ENERGY CENTER 115KV'	18.01685	0.02807	-0.30865	0
			WERE	'SOUTH SENECA 115KV'	16.7	-0.28058	WERE	'CHANUTE 69KV'	44.738	0.00301	-0.28359	0
			WERE	'SOUTH SENECA 115KV'	16.7	-0.28058	WERE	'CITY OF AUGUSTA 69KV'	12.42	-0.00748	-0.2731	0
			WERE	'SOUTH SENECA 115KV'	16.7	-0.28058	WERE	'CITY OF BURLINGTON 69KV'	1.08	0.00512	-0.2857	0
			WERE	'SOUTH SENECA 115KV'	16.7	-0.28058	WERE	'CITY OF ERIE 69KV'	4	0.00301	-0.28359	0

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

Source	Sink	Source MW	Sink MW	Source GSF	Sink GSF	Source Decrement (MW)	Sink Increment (MW)	Source Factor	Sink Factor
WERE	'SOUTH SENECA 115KV'	16.7	-0.28058	WERE	'CITY OF GIRARD 69KV'	1.594	0.00454	-0.28512	0
WERE	'SOUTH SENECA 115KV'	16.7	-0.28058	WERE	'CITY OF IOLA 69KV'	16.378	0.00406	-0.28464	0
WERE	'SOUTH SENECA 115KV'	16.7	-0.28058	WERE	'CITY OF MULVANE 69KV'	4.394	-0.00189	-0.27869	0
WERE	'SOUTH SENECA 115KV'	16.7	-0.28058	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00126	-0.27932	0
WERE	'SOUTH SENECA 115KV'	16.7	-0.28058	WERE	'CLAY CENTER JUNCTION 115KV'	6.553006	0.02905	-0.30963	0
WERE	'SOUTH SENECA 115KV'	16.7	-0.28058	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.00512	-0.2857	0
WERE	'SOUTH SENECA 115KV'	16.7	-0.28058	WERE	'EVANS ENERGY CENTER 138KV'	305	-0.00121	-0.27937	0
WERE	'SOUTH SENECA 115KV'	16.7	-0.28058	WERE	'GILL ENERGY CENTER 138KV'	77	-0.00141	-0.27917	0
WERE	'SOUTH SENECA 115KV'	16.7	-0.28058	WERE	'HUTCHINSON ENERGY CENTER 115KV'	80.00001	0.02106	-0.30164	0
WERE	'SOUTH SENECA 115KV'	16.7	-0.28058	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03422	-0.3148	0
WERE	'SOUTH SENECA 115KV'	16.7	-0.28058	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03659	-0.31717	0
WERE	'SOUTH SENECA 115KV'	16.7	-0.28058	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	0.03033	-0.31091	0
WERE	'SOUTH SENECA 115KV'	16.7	-0.28058	WERE	'LAWRENCE ENERGY CENTER 230KV'	223.889	0.03097	-0.31155	0
WERE	'SOUTH SENECA 115KV'	16.7	-0.28058	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04627	-0.32685	0
WERE	'SOUTH SENECA 115KV'	16.7	-0.28058	WERE	'WACO 138KV'	17.96	-0.00139	-0.27919	0
WERE	'CITY OF AUGUSTA 69KV'	14.92	-0.00748	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04627	-0.05375	1
WEPL	'CLIFTON 115KV'	70	-0.09779	WEPL	'A. M. MULLERGEN GENERATOR 115KV'	19.41023	0.00922	-0.10701	1
WEPL	'CLIFTON 115KV'	70	-0.09779	WEPL	'BELOIT 115KV'	6.25	-0.02698	-0.07081	1
WEPL	'CLIFTON 115KV'	70	-0.09779	WEPL	'GRAY COUNTY WIND FARM 115KV'	76	0.0032	-0.10099	1
WEPL	'CLIFTON 115KV'	70	-0.09779	WEPL	'HARPER 138KV'	1.55	0.00154	-0.09933	1
WEPL	'CLIFTON 115KV'	70	-0.09779	WEPL	'JUDSON LARGE 115KV'	50.20939	0.0032	-0.10099	1
WEPL	'CLIFTON 115KV'	70	-0.09779	WEPL	'PLAINVILLE 115KV'	5.25	0.00454	-0.10233	1
WEPL	'CLIFTON 115KV'	70	-0.09779	WEPL	'RUSSELL 115KV'	19.4	0.00016	-0.09795	1
WEPL	'CLIFTON 115KV'	70	-0.09779	WEPL	'SMITH CENTER 115KV'	3.6	-0.01519	-0.0826	1
WERE	'GETTY 69KV'	35	-0.01228	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04627	-0.05855	1
WEPL	'GREENLEAF 115KV'	12.25	-0.13774	WEPL	'A. M. MULLERGEN GENERATOR 115KV'	19.41023	0.00922	-0.14698	1
WEPL	'GREENLEAF 115KV'	12.25	-0.13774	WEPL	'BELOIT 115KV'	6.25	-0.02698	-0.11076	1
WEPL	'GREENLEAF 115KV'	12.25	-0.13774	WEPL	'GRAY COUNTY WIND FARM 115KV'	76	0.0032	-0.14094	1
WEPL	'GREENLEAF 115KV'	12.25	-0.13774	WEPL	'HARPER 138KV'	1.55	0.00154	-0.13928	1
WEPL	'GREENLEAF 115KV'	12.25	-0.13774	WEPL	'JUDSON LARGE 115KV'	50.20939	0.0032	-0.14094	1
WEPL	'GREENLEAF 115KV'	12.25	-0.13774	WEPL	'PLAINVILLE 115KV'	5.25	0.00454	-0.14228	1
WEPL	'GREENLEAF 115KV'	12.25	-0.13774	WEPL	'RUSSELL 115KV'	19.4	0.00016	-0.1379	1
WEPL	'GREENLEAF 115KV'	12.25	-0.13774	WEPL	'SMITH CENTER 115KV'	3.6	-0.01519	-0.12255	1
WEPL	'BELOIT 115KV'	10.35	-0.02698	WEPL	'A. M. MULLERGEN GENERATOR 115KV'	19.41023	0.00922	-0.0362	2
WEPL	'BELOIT 115KV'	10.35	-0.02698	WEPL	'GRAY COUNTY WIND FARM 115KV'	76	0.0032	-0.03018	2
WEPL	'BELOIT 115KV'	10.35	-0.02698	WEPL	'JUDSON LARGE 115KV'	50.20939	0.0032	-0.03018	2
WEPL	'BELOIT 115KV'	10.35	-0.02698	WEPL	'PLAINVILLE 115KV'	5.25	0.00454	-0.03152	2
WERE	'CHANUTE 69KV'	43.062	0.00301	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03422	-0.03121	2
WERE	'CHANUTE 69KV'	43.062	0.00301	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03659	-0.0358	2
WERE	'CHANUTE 69KV'	43.062	0.00301	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04627	-0.04326	2
WERE	'CITY OF AUGUSTA 69KV'	14.92	-0.00748	WERE	'ABELINE ENERGY CENTER 115KV'	18.01685	0.02807	-0.03555	2
WERE	'CITY OF AUGUSTA 69KV'	14.92	-0.00748	WERE	'CLAY CENTER JUNCTION 115KV'	6.553006	0.02905	-0.03653	2
WERE	'CITY OF AUGUSTA 69KV'	14.92	-0.00748	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03422	-0.0417	2
WERE	'CITY OF AUGUSTA 69KV'	14.92	-0.00748	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03659	-0.04407	2
WERE	'CITY OF AUGUSTA 69KV'	14.92	-0.00748	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	0.03033	-0.03781	2
WERE	'CITY OF AUGUSTA 69KV'	14.92	-0.00748	WERE	'LAWRENCE ENERGY CENTER 230KV'	223.889	0.03097	-0.03845	2
WERE	'CITY OF BURLINGTON 69KV'	11.42	0.00512	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03659	-0.03147	2
WERE	'CITY OF BURLINGTON 69KV'	11.42	0.00512	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04627	-0.04115	2
WERE	'CITY OF ERIE 69KV'	22.53	0.00301	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03422	-0.03121	2
WERE	'CITY OF ERIE 69KV'	22.53	0.00301	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03659	-0.0358	2
WERE	'CITY OF ERIE 69KV'	22.53	0.00301	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04627	-0.04326	2
WERE	'CITY OF FREDONIA 69KV'	10.096	0.00169	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03422	-0.03253	2
WERE	'CITY OF FREDONIA 69KV'	10.096	0.00169	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03659	-0.0349	2
WERE	'CITY OF FREDONIA 69KV'	10.096	0.00169	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04627	-0.04458	2
WERE	'CITY OF GIRARD 69KV'	9.106	0.00454	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03659	-0.03205	2

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

Upgrade: CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1
 Limiting Facility: CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1
 Direction: To->From
 Line Outage: CLIFTON - CONCORDIA 115KV CKT 1
 Flowgate: 57152571651587565875711311WP
 Date Redispatch Needed: 12/1/11 - 4/1/12
 Season Flowgate Identified: 2011 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)
1090416	0.1	0.1	WERE	'BROWN COUNTY 115KV'	5.5	-0.35571	WERE	'CHANUTE 69KV'	44.738	0.00503	-0.36074	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.35571	WERE	'CITY OF AUGUSTA 69KV'	12.42	-0.00244	-0.35327	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.35571	WERE	'CITY OF BURLINGTON 69KV'	1.08	0.00783	-0.36444	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.35571	WERE	'CITY OF ERIE 69KV'	4	0.00503	-0.36074	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.35571	WERE	'CITY OF GIRARD 69KV'	1.594	0.00623	-0.36194	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.35571	WERE	'CITY OF IOLA 69KV'	16.378	0.00583	-0.36154	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.35571	WERE	'CITY OF MULVANE 69KV'	4.394	0.00458	-0.36029	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.35571	WERE	'CITY OF WELLINGTON 69KV'	20	0.00475	-0.36046	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.35571	WERE	'CLAY CENTER JUNCTION 115KV'	6.553006	0.03118	-0.38689	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.35571	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.00873	-0.36444	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.35571	WERE	'EVANS ENERGY CENTER 138KV'	225.6987	0.00666	-0.36237	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.35571	WERE	'GILL ENERGY CENTER 138KV'	77	0.00551	-0.36122	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.35571	WERE	'HUTCHINSON ENERGY CENTER 115KV'	40	0.0239	-0.37961	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.35571	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0354	-0.39111	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.35571	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03593	-0.39164	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.35571	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	0.02813	-0.38384	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.35571	WERE	'LAWRENCE ENERGY CENTER 230KV'	224.6653	0.02871	-0.38442	0
			WERE	'BROWN COUNTY 115KV'	5.5	-0.35571	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04355	-0.39926	0
			WEPL	'CLIFTON 115KV'	70	-0.35571	WEPL	'WACO 138KV'	17.96	0.00563	-0.36134	0
			WEPL	'CLIFTON 115KV'	70	-0.35571	WEPL	'BELOIT 115KV'	6.25	0.02667	-0.38238	0
			WEPL	'CLIFTON 115KV'	70	-0.35571	WEPL	'GRAY COUNTY WIND FARM 115KV'	100	0.00768	-0.36339	0
			WEPL	'CLIFTON 115KV'	70	-0.35571	WEPL	'HARPER 138KV'	1.55	0.00793	-0.36364	0
			WEPL	'CLIFTON 115KV'	70	-0.35571	WEPL	'JUDSON LARGE 115KV'	45.7843	0.00768	-0.36339	0
			WEPL	'CLIFTON 115KV'	70	-0.35571	WEPL	'PLAINVILLE 115KV'	5.25	0.01881	-0.37452	0
			WEPL	'CLIFTON 115KV'	70	-0.35571	WEPL	'RUSSELL 115KV'	19.4	0.01881	-0.37452	0
			WEPL	'CLIFTON 115KV'	70	-0.35571	WEPL	'SMITH CENTER 115KV'	3.6	0.02283	-0.37854	0
			WEPL	'GREENLEAF 115KV'	12.25	-0.35571	WEPL	'BELOIT 115KV'	6.25	0.02667	-0.38238	0
			WEPL	'GREENLEAF 115KV'	12.25	-0.35571	WEPL	'GRAY COUNTY WIND FARM 115KV'	100	0.00768	-0.36339	0
			WEPL	'GREENLEAF 115KV'	12.25	-0.35571	WEPL	'HARPER 138KV'	1.55	0.00793	-0.36364	0
			WEPL	'GREENLEAF 115KV'	12.25	-0.35571	WEPL	'JUDSON LARGE 115KV'	45.7843	0.00768	-0.36339	0
			WEPL	'GREENLEAF 115KV'	12.25	-0.35571	WEPL	'PLAINVILLE 115KV'	5.25	0.01881	-0.37452	0
			WEPL	'GREENLEAF 115KV'	12.25	-0.35571	WEPL	'RUSSELL 115KV'	19.4	0.01881	-0.37452	0
			WEPL	'GREENLEAF 115KV'	12.25	-0.35571	WEPL	'SMITH CENTER 115KV'	3.6	0.02283	-0.37854	0
			WERE	'HOLTON 115KV'	19.8	-0.69197	WERE	'CHANUTE 69KV'	44.738	0.00503	-0.697	0
			WERE	'HOLTON 115KV'	19.8	-0.69197	WERE	'CITY OF AUGUSTA 69KV'	12.42	-0.00244	-0.68953	0
			WERE	'HOLTON 115KV'	19.8	-0.69197	WERE	'CITY OF BURLINGTON 69KV'	1.08	0.00783	-0.7007	0
			WERE	'HOLTON 115KV'	19.8	-0.69197	WERE	'CITY OF ERIE 69KV'	4	0.00503	-0.697	0
			WERE	'HOLTON 115KV'	19.8	-0.69197	WERE	'CITY OF GIRARD 69KV'	1.594	0.00623	-0.6982	0
			WERE	'HOLTON 115KV'	19.8	-0.69197	WERE	'CITY OF IOLA 69KV'	16.378	0.00583	-0.6978	0
			WERE	'HOLTON 115KV'	19.8	-0.69197	WERE	'CITY OF MULVANE 69KV'	4.394	0.00458	-0.69655	0
			WERE	'HOLTON 115KV'	19.8	-0.69197	WERE	'CITY OF WELLINGTON 69KV'	20	0.00475	-0.69672	0
			WERE	'HOLTON 115KV'	19.8	-0.69197	WERE	'CLAY CENTER JUNCTION 115KV'	6.553006	0.03118	-0.72315	0

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

WERE	'HOLTON 115KV'	19.8	-0.69197	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.00873	-0.7007	0
WERE	'HOLTON 115KV'	19.8	-0.69197	WERE	'EVANS ENERGY CENTER 138KV'	225.6987	0.00666	-0.69863	0
WERE	'HOLTON 115KV'	19.8	-0.69197	WERE	'GILL ENERGY CENTER 138KV'	77	0.00551	-0.69748	0
WERE	'HOLTON 115KV'	19.8	-0.69197	WERE	'HUTCHINSON ENERGY CENTER 115KV'	40	0.0239	-0.71587	0
WERE	'HOLTON 115KV'	19.8	-0.69197	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0354	-0.72737	0
WERE	'HOLTON 115KV'	19.8	-0.69197	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03593	-0.7279	0
WERE	'HOLTON 115KV'	19.8	-0.69197	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	0.02813	-0.7201	0
WERE	'HOLTON 115KV'	19.8	-0.69197	WERE	'LAWRENCE ENERGY CENTER 230KV'	224.6653	0.02871	-0.72068	0
WERE	'HOLTON 115KV'	19.8	-0.69197	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04355	-0.73552	0
WERE	'HOLTON 115KV'	19.8	-0.69197	WERE	'WACO 138KV'	17.96	0.00563	-0.6976	0
WERE	'SOUTH SENECA 115KV'	16.7	-0.35571	WERE	'CHANUTE 69KV'	44.738	0.00503	-0.36074	0
WERE	'SOUTH SENECA 115KV'	16.7	-0.35571	WERE	'CITY OF AUGUSTA 69KV'	12.42	-0.00244	-0.35327	0
WERE	'SOUTH SENECA 115KV'	16.7	-0.35571	WERE	'CITY OF BURLINGTON 69KV'	1.08	0.00873	-0.36444	0
WERE	'SOUTH SENECA 115KV'	16.7	-0.35571	WERE	'CITY OF ERIE 69KV'	4	0.00503	-0.36074	0
WERE	'SOUTH SENECA 115KV'	16.7	-0.35571	WERE	'CITY OF GIRARD 69KV'	1.594	0.00623	-0.36194	0
WERE	'SOUTH SENECA 115KV'	16.7	-0.35571	WERE	'CITY OF IOLA 69KV'	16.378	0.00583	-0.36154	0
WERE	'SOUTH SENECA 115KV'	16.7	-0.35571	WERE	'CITY OF MULVANE 69KV'	4.394	0.00458	-0.36029	0
WERE	'SOUTH SENECA 115KV'	16.7	-0.35571	WERE	'CITY OF WELLINGTON 69KV'	20	0.00475	-0.36046	0
WERE	'SOUTH SENECA 115KV'	16.7	-0.35571	WERE	'CLAY CENTER JUNCTION 115KV'	6.553006	0.03118	-0.36889	0
WERE	'SOUTH SENECA 115KV'	16.7	-0.35571	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.00873	-0.36444	0
WERE	'SOUTH SENECA 115KV'	16.7	-0.35571	WERE	'EVANS ENERGY CENTER 138KV'	225.6987	0.00666	-0.36237	0
WERE	'SOUTH SENECA 115KV'	16.7	-0.35571	WERE	'GILL ENERGY CENTER 138KV'	77	0.00551	-0.36122	0
WERE	'SOUTH SENECA 115KV'	16.7	-0.35571	WERE	'HUTCHINSON ENERGY CENTER 115KV'	40	0.0239	-0.37961	0
WERE	'SOUTH SENECA 115KV'	16.7	-0.35571	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0354	-0.39111	0
WERE	'SOUTH SENECA 115KV'	16.7	-0.35571	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03593	-0.39164	0
WERE	'SOUTH SENECA 115KV'	16.7	-0.35571	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	0.02813	-0.38384	0
WERE	'SOUTH SENECA 115KV'	16.7	-0.35571	WERE	'LAWRENCE ENERGY CENTER 230KV'	224.6653	0.02871	-0.38442	0
WERE	'SOUTH SENECA 115KV'	16.7	-0.35571	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04355	-0.39926	0
WERE	'SOUTH SENECA 115KV'	16.7	-0.35571	WERE	'WACO 138KV'	17.96	0.00563	-0.36134	0
WERE	'CITY OF AUGUSTA 69KV'	14.92	-0.00244	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04355	-0.04599	2
WERE	'GETTY 69KV'	35	-0.00818	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04355	-0.05173	2
WERE	'CHANUTE 69KV'	43.062	0.00503	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04355	-0.03852	3
WERE	'CITY OF AUGUSTA 69KV'	14.92	-0.00244	WERE	'CLAY CENTER JUNCTION 115KV'	6.553006	0.03118	-0.03362	3
WERE	'CITY OF AUGUSTA 69KV'	14.92	-0.00244	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0354	-0.03784	3
WERE	'CITY OF AUGUSTA 69KV'	14.92	-0.00244	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03593	-0.03837	3
WERE	'CITY OF BURLINGTON 69KV'	11.42	0.00873	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04355	-0.03482	3
WERE	'CITY OF ERIE 69KV'	22.53	0.00503	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04355	-0.03852	3
WERE	'CITY OF FREDONIA 69KV'	10.096	0.00402	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03593	-0.03191	3
WERE	'CITY OF FREDONIA 69KV'	10.096	0.00402	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04355	-0.03953	3
WERE	'CITY OF GIRARD 69KV'	9.106	0.00623	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04355	-0.03732	3
WERE	'CITY OF IOLA 69KV'	21.25	0.00583	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04355	-0.03772	3
WERE	'CITY OF MULVANE 69KV'	11.396	0.00458	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04355	-0.03897	3
WERE	'CITY OF NEODESHA 69KV'	4.5	0.00431	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03593	-0.03162	3
WERE	'CITY OF NEODESHA 69KV'	4.5	0.00431	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04355	-0.03924	3
WERE	'CITY OF WELLINGTON 69KV'	23.5	0.00475	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04355	-0.0388	3
WERE	'CITY OF WINFIELD 69KV'	40	0.00381	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03593	-0.03212	3
WERE	'CITY OF WINFIELD 69KV'	40	0.00381	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04355	-0.03974	3
WERE	'EVANS ENERGY CENTER 138KV'	721.3013	0.00666	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04355	-0.03689	3
WERE	'GETTY 69KV'	35	-0.00818	WERE	'CLAY CENTER JUNCTION 115KV'	6.553006	0.03118	-0.03936	3
WERE	'GETTY 69KV'	35	-0.00818	WERE	'HUTCHINSON ENERGY CENTER 115KV'	40	0.0239	-0.03208	3
WERE	'GETTY 69KV'	35	-0.00818	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0354	-0.04358	3
WERE	'GETTY 69KV'	35	-0.00818	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03593	-0.04411	3
WERE	'GETTY 69KV'	35	-0.00818	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	0.02813	-0.03631	3
WERE	'GETTY 69KV'	35	-0.00818	WERE	'LAWRENCE ENERGY CENTER 230KV'	224.6653	0.02871	-0.03689	3
WERE	'GILL ENERGY CENTER 138KV'	118	0.00551	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04355	-0.03804	3
WERE	'GILL ENERGY CENTER 69KV'	118	0.00535	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04355	-0.0382	3
WERE	'LATHAM1234.0 345KV'	150	0.00608	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04355	-0.03747	3
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.00583	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04355	-0.03772	3

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

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

Upgrade: 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: 5715257165158758586111411SP
Date Redispatch Needed: 6/1/11 - 10/1/11
Season Flowgate Identified: 2011 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090325	0.9	11.1
1090327	0.2	11.1
1090329	1.4	11.1
1090332	1.9	11.1
1090334	0.4	11.1
1090416	1.1	11.1
1090817	0.9	11.1
1090826	1.5	11.1
1090844	0.4	11.1
1090854	0.2	11.1
1090964	1.3	11.1
1090965	0.4	11.1
1091057	0.4	11.1

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	-0.67798	WERE	'TECUMSEH ENERGY CENTER 115KV'	161	0.04386	-0.72184	15
WERE	'HOLTON 115KV'	19.8	-0.67798	WERE	'TECUMSEH ENERGY CENTER 69KV'	31	0.04516	-0.72314	15
WERE	'SOUTH SENECA 115KV'	16.7	-0.30488	WERE	'TECUMSEH ENERGY CENTER 115KV'	161	0.04386	-0.34874	32
WERE	'SOUTH SENECA 115KV'	16.7	-0.30488	WERE	'TECUMSEH ENERGY CENTER 69KV'	31	0.04516	-0.35004	32
WERE	'SOUTH SENECA 115KV'	16.7	-0.30488	WERE	'JEFFREY ENERGY CENTER 230KV'	494	0.0349	-0.33978	33
WERE	'SOUTH SENECA 115KV'	16.7	-0.30488	WERE	'JEFFREY ENERGY CENTER 345KV'	982	0.03523	-0.34011	33
WERE	'LATHAM1234.0 345KV'	150	0.0059	WERE	'TECUMSEH ENERGY CENTER 115KV'	161	0.04386	-0.03796	293
WERE	'EVANS ENERGY CENTER 138KV'	154	0.00625	WERE	'TECUMSEH ENERGY CENTER 115KV'	161	0.04386	-0.03761	296

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: COOPER S 161 - S1280 S 161 161KV CKT 1
Flowgate: 57152571651647876548014411SP
Date Redispatch Needed: 6/1/11 - 10/1/11
Season Flowgate Identified: 2011 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090416	0.8	0.8

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	-0.6908	WERE	'ABILENE ENERGY CENTER 115KV'	45	0.02044	-0.71124	1
WERE	'HOLTON 115KV'	19.8	-0.6908	WERE	'BPU - CITY OF MCPHERSON 115KV'	165	0.01648	-0.70728	1

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

WERE	'HOLTON 115KV'	19.8	-0.6908	WERE	'CHANUTE 69KV'	58.843	0.00356	-0.69436	1
WERE	'HOLTON 115KV'	19.8	-0.6908	WERE	'CITY OF BURLINGTON 69KV'	7.8	0.00673	-0.69753	1
WERE	'HOLTON 115KV'	19.8	-0.6908	WERE	'CITY OF ERIE 69KV'	23.579	0.00356	-0.69436	1
WERE	'HOLTON 115KV'	19.8	-0.6908	WERE	'CITY OF IOLA 69KV'	27.273	0.00442	-0.69522	1
WERE	'HOLTON 115KV'	19.8	-0.6908	WERE	'CITY OF MULVANE 69KV'	9.291	0.00195	-0.69275	1
WERE	'HOLTON 115KV'	19.8	-0.6908	WERE	'CLAY CENTER JUNCTION 115KV'	19.86599	0.02119	-0.71199	1
WERE	'HOLTON 115KV'	19.8	-0.6908	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	0.00673	-0.69753	1
WERE	'HOLTON 115KV'	19.8	-0.6908	WERE	'EVANS ENERGY CENTER 138KV'	565	0.00391	-0.69471	1
WERE	'HOLTON 115KV'	19.8	-0.6908	WERE	'GILL ENERGY CENTER 138KV'	171	0.00268	-0.69348	1
WERE	'HOLTON 115KV'	19.8	-0.6908	WERE	'GILL ENERGY CENTER 69KV'	75	0.00258	-0.69338	1
WERE	'HOLTON 115KV'	19.8	-0.6908	WERE	'HUTCHINSON ENERGY CENTER 115KV'	259.29	0.01443	-0.70523	1
WERE	'HOLTON 115KV'	19.8	-0.6908	WERE	'HUTCHINSON ENERGY CENTER 69KV'	45	0.01441	-0.70521	1
WERE	'HOLTON 115KV'	19.8	-0.6908	WERE	'JEFFREY ENERGY CENTER 230KV'	490	0.02667	-0.71747	1
WERE	'HOLTON 115KV'	19.8	-0.6908	WERE	'JEFFREY ENERGY CENTER 345KV'	980	0.02924	-0.72004	1
WERE	'HOLTON 115KV'	19.8	-0.6908	WERE	'LAWRENCE ENERGY CENTER 230KV'	223.5732	0.02498	-0.71578	1
WERE	'HOLTON 115KV'	19.8	-0.6908	WERE	'NEOSHO ENERGY CENTER 138KV'	45	0.00441	-0.69521	1
WERE	'HOLTON 115KV'	19.8	-0.6908	WERE	'SMOKYHIL 230 230KV'	13	0.01528	-0.70608	1
WERE	'HOLTON 115KV'	19.8	-0.6908	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.03881	-0.72961	1
WERE	'HOLTON 115KV'	19.8	-0.6908	WERE	'WACO 138KV'	17.972	0.00281	-0.69361	1
WERE	'BROWN COUNTY 115KV'	5.5	-0.34736	WERE	'ABILENE ENERGY CENTER 115KV'	45	0.02044	-0.3678	2
WERE	'BROWN COUNTY 115KV'	5.5	-0.34736	WERE	'BPU - CITY OF MCPHERSON 115KV'	165	0.01648	-0.36384	2
WERE	'BROWN COUNTY 115KV'	5.5	-0.34736	WERE	'CHANUTE 69KV'	58.843	0.00356	-0.35092	2
WERE	'BROWN COUNTY 115KV'	5.5	-0.34736	WERE	'CITY OF BURLINGTON 69KV'	7.8	0.00673	-0.35409	2
WERE	'BROWN COUNTY 115KV'	5.5	-0.34736	WERE	'CITY OF ERIE 69KV'	23.579	0.00356	-0.35092	2
WERE	'BROWN COUNTY 115KV'	5.5	-0.34736	WERE	'CITY OF IOLA 69KV'	27.273	0.00442	-0.35178	2
WERE	'BROWN COUNTY 115KV'	5.5	-0.34736	WERE	'CITY OF MULVANE 69KV'	9.291	0.00195	-0.34931	2
WERE	'BROWN COUNTY 115KV'	5.5	-0.34736	WERE	'CLAY CENTER JUNCTION 115KV'	19.86599	0.02119	-0.36855	2
WERE	'BROWN COUNTY 115KV'	5.5	-0.34736	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	0.00673	-0.35409	2
WERE	'BROWN COUNTY 115KV'	5.5	-0.34736	WERE	'EVANS ENERGY CENTER 138KV'	565	0.00391	-0.35127	2
WERE	'BROWN COUNTY 115KV'	5.5	-0.34736	WERE	'GILL ENERGY CENTER 138KV'	171	0.00268	-0.35004	2
WERE	'BROWN COUNTY 115KV'	5.5	-0.34736	WERE	'GILL ENERGY CENTER 69KV'	75	0.00258	-0.34994	2
WERE	'BROWN COUNTY 115KV'	5.5	-0.34736	WERE	'HUTCHINSON ENERGY CENTER 115KV'	259.29	0.01443	-0.36179	2
WERE	'BROWN COUNTY 115KV'	5.5	-0.34736	WERE	'HUTCHINSON ENERGY CENTER 69KV'	45	0.01441	-0.36177	2
WERE	'BROWN COUNTY 115KV'	5.5	-0.34736	WERE	'JEFFREY ENERGY CENTER 230KV'	490	0.02667	-0.37403	2
WERE	'BROWN COUNTY 115KV'	5.5	-0.34736	WERE	'JEFFREY ENERGY CENTER 345KV'	980	0.02924	-0.3766	2
WERE	'BROWN COUNTY 115KV'	5.5	-0.34736	WERE	'LAWRENCE ENERGY CENTER 230KV'	223.5732	0.02498	-0.37234	2
WERE	'BROWN COUNTY 115KV'	5.5	-0.34736	WERE	'NEOSHO ENERGY CENTER 138KV'	45	0.00441	-0.35177	2
WERE	'BROWN COUNTY 115KV'	5.5	-0.34736	WERE	'SMOKYHIL 230 230KV'	13	0.01528	-0.36264	2
WERE	'BROWN COUNTY 115KV'	5.5	-0.34736	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.03881	-0.38617	2
WERE	'BROWN COUNTY 115KV'	5.5	-0.34736	WERE	'WACO 138KV'	17.972	0.00281	-0.35017	2
WERE	'SOUTH SENECA 115KV'	16.7	-0.31625	WERE	'ABILENE ENERGY CENTER 115KV'	45	0.02044	-0.33669	2
WERE	'SOUTH SENECA 115KV'	16.7	-0.31625	WERE	'CLAY CENTER JUNCTION 115KV'	19.86599	0.02119	-0.33744	2
WERE	'SOUTH SENECA 115KV'	16.7	-0.31625	WERE	'JEFFREY ENERGY CENTER 230KV'	490	0.02667	-0.34292	2
WERE	'SOUTH SENECA 115KV'	16.7	-0.31625	WERE	'JEFFREY ENERGY CENTER 345KV'	980	0.02924	-0.34549	2
WERE	'SOUTH SENECA 115KV'	16.7	-0.31625	WERE	'LAWRENCE ENERGY CENTER 230KV'	223.5732	0.02498	-0.34123	2
WERE	'SOUTH SENECA 115KV'	16.7	-0.31625	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.03881	-0.35506	2
WERE	'SOUTH SENECA 115KV'	16.7	-0.31625	WERE	'BPU - CITY OF MCPHERSON 115KV'	165	0.01648	-0.33273	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.31625	WERE	'CHANUTE 69KV'	58.843	0.00356	-0.31981	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.31625	WERE	'CITY OF BURLINGTON 69KV'	7.8	0.00673	-0.32298	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.31625	WERE	'CITY OF ERIE 69KV'	23.579	0.00356	-0.31981	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.31625	WERE	'CITY OF IOLA 69KV'	27.273	0.00442	-0.32067	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.31625	WERE	'CITY OF MULVANE 69KV'	9.291	0.00195	-0.3182	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.31625	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.98	0.00673	-0.32298	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.31625	WERE	'EVANS ENERGY CENTER 138KV'	565	0.00391	-0.32016	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.31625	WERE	'GILL ENERGY CENTER 138KV'	171	0.00268	-0.31893	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.31625	WERE	'GILL ENERGY CENTER 69KV'	75	0.00258	-0.31883	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.31625	WERE	'HUTCHINSON ENERGY CENTER 115KV'	259.29	0.01443	-0.33068	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.31625	WERE	'HUTCHINSON ENERGY CENTER 69KV'	45	0.01441	-0.33066	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.31625	WERE	'NEOSHO ENERGY CENTER 138KV'	45	0.00441	-0.32066	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.31625	WERE	'SMOKYHIL 230 230KV'	13	0.01528	-0.33153	3
WERE	'SOUTH SENECA 115KV'	16.7	-0.31625	WERE	'WACO 138KV'	17.972	0.00281	-0.31906	3
WEPL	'GREENLEAF 115KV'	7.456	-0.16002	WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	0.00388	-0.1639	5
WEPL	'GREENLEAF 115KV'	7.456	-0.16002	WEPL	'CIMARRON RIVER 115KV'	12.8476	-0.00149	-0.15853	5
WEPL	'GREENLEAF 115KV'	7.456	-0.16002	WEPL	'GRAY COUNTY WIND FARM 115KV'	36	0.00016	-0.16018	5
WEPL	'GREENLEAF 115KV'	7.456	-0.16002	WEPL	'HARPER 138KV'	2.15	0.00309	-0.16311	5
WEPL	'GREENLEAF 115KV'	7.456	-0.16002	WEPL	'JUDSON LARGE 115KV'	106.2311	0.00016	-0.16018	5
WEPL	'GREENLEAF 115KV'	7.456	-0.16002	WEPL	'NORTH WEST GREAT BEND 115KV'	12.243	0.00388	-0.1639	5
WEPL	'GREENLEAF 115KV'	7.456	-0.16002	WEPL	'PLAINVILLE 115KV'	5.25	-0.0021	-0.15792	5
WEPL	'GREENLEAF 115KV'	7.456	-0.16002	WEPL	'RUSSELL 115KV'	25.25	-0.00669	-0.15333	5
WEPL	'GREENLEAF 115KV'	7.456	-0.16002	WEPL	'SOUTH DODGE 115KV'	1.9	0.00016	-0.16018	5
WEPL	'GREENLEAF 115KV'	7.456	-0.16002	WEPL	'SMITH CENTER 115KV'	4.613	-0.02458	-0.13544	6
WEPL	'GREENLEAF 115KV'	7.456	-0.16002	WEPL	'BELOIT 115KV'	9.25	-0.03841	-0.12161	7
WERE	'GETTY 69KV'	35	-0.0107	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.03881	-0.04951	17
WEPL	'GREENLEAF 115KV'	7.456	-0.16002	WEPL	'CLIFTON 115KV'	65	-0.11633	-0.04369	19
WEPL	'BELOIT 115KV'	7.35	-0.03841	WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	63	0.00388	-0.04229	20
WEPL	'BELOIT 115KV'	7.35	-0.03841	WEPL	'NORTH WEST GREAT BEND 115KV'	12.243	0.00388	-0.04229	20
WERE	'GETTY 69KV'	35	-0.0107	WERE	'JEFFREY ENERGY CENTER 345KV'	980	0.02924	-0.03994	21
WEPL	'BELOIT 115KV'	7.35	-0.03841	WEPL	'GRAY COUNTY WIND FARM 115KV'	36	0.00016	-0.03857	22
WEPL	'BELOIT 115KV'	7.35	-0.03841	WEPL	'JUDSON LARGE 115KV'	106.2311	0.00016	-0.03857	22
WERE	'CITY OF WINFIELD 69KV'	40	0.00144	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.03881	-0.03737	22
WERE	'GETTY 69KV'	35	-0.0107	WERE	'JEFFREY ENERGY CENTER 230KV'	490	0.02667	-0.03737	22
WERE	'GETTY 69KV'	35	-0.0107	WERE	'LAWRENCE ENERGY CENTER 115KV'	105	0.02486	-0.03568	23
WERE	'GETTY 69KV'	35	-0.0107	WERE	'LAWRENCE ENERGY CENTER 230KV'	223.5732	0.02498	-0.03568	23
WERE	'GILL ENERGY CENTER 69KV'	8	0.00258	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.03881	-0.03623	23
WERE	'CITY OF IOLA 69KV'	10.355	0.00442	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.03881	-0.03439	24
WERE	'EVANS ENERGY CENTER 138KV'	162	0.00391	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.03881	-0.0349	24
WERE	'LATHAM1234.0 345KV'	150	0.00395	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.03881	-0.03486	24
WERE	'GETTY 69KV'	35	-0.0107	WERE	'ABILENE ENERGY CENTER 115KV'	45	0.02044	-0.03114	27

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 4
 Flowgate: 57152571651CONCNCORD66311411SP
 Date Redispatch Needed: 6/1/11 - 10/1/11
 Season Flowgate Identified: 2011 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090325	0.9	11.1
1090327	0.2	11.1
1090329	1.4	11.1
1090332	1.9	11.1
1090334	0.4	11.1
1090416	1.1	11.1
1090817	0.9	11.1
1090826	1.5	11.1
1090844	0.4	11.1
1090854	0.2	11.1
1090964	1.3	11.1
1090965	0.4	11.1

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

1091057		0.4		11.1									
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	-0.67798	WERE	TECUMSEH ENERGY CENTER 115KV	161	0.04386	-0.72184	15				
WERE	HOLTON 115KV	19.8	-0.67798	WERE	TECUMSEH ENERGY CENTER 69KV	31	0.04516	-0.72314	15				
WERE	SOUTH SENECA 115KV	16.7	-0.30488	WERE	TECUMSEH ENERGY CENTER 115KV	161	0.04386	-0.34874	32				
WERE	SOUTH SENECA 115KV	16.7	-0.30488	WERE	TECUMSEH ENERGY CENTER 69KV	31	0.04516	-0.35004	32				
WERE	SOUTH SENECA 115KV	16.7	-0.30488	WERE	JEFFREY ENERGY CENTER 230KV	494	0.03489	-0.33278	33				
WERE	SOUTH SENECA 115KV	16.7	-0.30488	WERE	JEFFREY ENERGY CENTER 345KV	982	0.03523	-0.34011	33				
WERE	LATHAM1234.0 345KV	150	0.0059	WERE	TECUMSEH ENERGY CENTER 115KV	161	0.04386	-0.03796	293				
WERE	EVANS ENERGY CENTER 138KV	154	0.00625	WERE	TECUMSEH ENERGY CENTER 115KV	161	0.04386	-0.03761	296				

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: SPP-2006-001
 Flowgate: 57152571651SPP-2006-0011411WP
 Date Redispatch Needed: 12/11/11 - 4/1/12
 Season Flowgate Identified: 2011 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090325	0.0	0.2
1090327	0.0	0.2
1090329	0.0	0.2
1090332	0.1	0.2
1090334	0.0	0.2
1090416	0.0	0.2

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	-0.66988	WERE	ABILENE ENERGY CENTER 115KV	27.95898	0.03063	-0.70051	0
WERE	HOLTON 115KV	19.8	-0.66988	WERE	CHANUTE 69KV	44.738	0.01037	-0.68025	0
WERE	HOLTON 115KV	19.8	-0.66988	WERE	CITY OF AUGUSTA 69KV	12.42	0.00387	-0.67375	0
WERE	HOLTON 115KV	19.8	-0.66988	WERE	CITY OF BURLINGTON 69KV	1.08	0.01551	-0.68539	0
WERE	HOLTON 115KV	19.8	-0.66988	WERE	CITY OF ERIE 69KV	4	0.01037	-0.68025	0
WERE	HOLTON 115KV	19.8	-0.66988	WERE	CITY OF GIRARD 69KV	1.594	0.0112	-0.68108	0
WERE	HOLTON 115KV	19.8	-0.66988	WERE	CITY OF IOLA 69KV	16.378	0.0113	-0.68118	0
WERE	HOLTON 115KV	19.8	-0.66988	WERE	CITY OF MULVANE 69KV	4.394	0.01021	-0.68009	0
WERE	HOLTON 115KV	19.8	-0.66988	WERE	CITY OF WELLINGTON 69KV	20	0.00987	-0.67975	0
WERE	HOLTON 115KV	19.8	-0.66988	WERE	CLAY CENTER JUNCTION 115KV	6.553006	0.03178	-0.70166	0
WERE	HOLTON 115KV	19.8	-0.66988	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.97	0.01551	-0.68539	0
WERE	HOLTON 115KV	19.8	-0.66988	WERE	EVANS ENERGY CENTER 138KV	305	0.01221	-0.68209	0
WERE	HOLTON 115KV	19.8	-0.66988	WERE	GILL ENERGY CENTER 138KV	77	0.01085	-0.68073	0
WERE	HOLTON 115KV	19.8	-0.66988	WERE	HUTCHINSON ENERGY CENTER 115KV	80.00001	0.02248	-0.69236	0
WERE	HOLTON 115KV	19.8	-0.66988	WERE	JEFFREY ENERGY CENTER 230KV	470	0.03845	-0.70833	0
WERE	HOLTON 115KV	19.8	-0.66988	WERE	JEFFREY ENERGY CENTER 345KV	940	0.04108	-0.71096	0
WERE	HOLTON 115KV	19.8	-0.66988	WERE	LAWRENCE ENERGY CENTER 115KV	85	0.03661	-0.70649	0
WERE	HOLTON 115KV	19.8	-0.66988	WERE	LAWRENCE ENERGY CENTER 230KV	223.8145	0.03653	-0.70641	0
WERE	HOLTON 115KV	19.8	-0.66988	WERE	TECUMSEH ENERGY CENTER 115KV	68.00001	0.05078	-0.72066	0
WERE	HOLTON 115KV	19.8	-0.66988	WERE	WACO 138KV	17.96	0.01099	-0.68087	0
WERE	BROWN COUNTY 115KV	5.5	-0.31579	WERE	ABILENE ENERGY CENTER 115KV	27.95898	0.03063	-0.34642	1
WERE	BROWN COUNTY 115KV	5.5	-0.31579	WERE	CHANUTE 69KV	44.738	0.01037	-0.32616	1
WERE	BROWN COUNTY 115KV	5.5	-0.31579	WERE	CITY OF AUGUSTA 69KV	12.42	0.00387	-0.31966	1
WERE	BROWN COUNTY 115KV	5.5	-0.31579	WERE	CITY OF BURLINGTON 69KV	1.08	0.01551	-0.33313	1
WERE	BROWN COUNTY 115KV	5.5	-0.31579	WERE	CITY OF ERIE 69KV	4	0.01037	-0.32616	1
WERE	BROWN COUNTY 115KV	5.5	-0.31579	WERE	CITY OF GIRARD 69KV	1.594	0.0112	-0.32889	1
WERE	BROWN COUNTY 115KV	5.5	-0.31579	WERE	CITY OF IOLA 69KV	16.378	0.0113	-0.32709	1
WERE	BROWN COUNTY 115KV	5.5	-0.31579	WERE	CITY OF MULVANE 69KV	4.394	0.01021	-0.326	1
WERE	BROWN COUNTY 115KV	5.5	-0.31579	WERE	CITY OF WELLINGTON 69KV	20	0.00987	-0.32566	1
WERE	BROWN COUNTY 115KV	5.5	-0.31579	WERE	CLAY CENTER JUNCTION 115KV	6.553006	0.03178	-0.34757	1
WERE	BROWN COUNTY 115KV	5.5	-0.31579	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.97	0.01551	-0.33313	1
WERE	BROWN COUNTY 115KV	5.5	-0.31579	WERE	EVANS ENERGY CENTER 138KV	305	0.01221	-0.328	1
WERE	BROWN COUNTY 115KV	5.5	-0.31579	WERE	GILL ENERGY CENTER 138KV	77	0.01085	-0.32664	1
WERE	BROWN COUNTY 115KV	5.5	-0.31579	WERE	HUTCHINSON ENERGY CENTER 115KV	80.00001	0.02248	-0.33827	1
WERE	BROWN COUNTY 115KV	5.5	-0.31579	WERE	JEFFREY ENERGY CENTER 230KV	470	0.03845	-0.35424	1
WERE	BROWN COUNTY 115KV	5.5	-0.31579	WERE	JEFFREY ENERGY CENTER 345KV	940	0.04108	-0.35687	1
WERE	BROWN COUNTY 115KV	5.5	-0.31579	WERE	LAWRENCE ENERGY CENTER 115KV	85	0.03661	-0.35241	1
WERE	BROWN COUNTY 115KV	5.5	-0.31579	WERE	LAWRENCE ENERGY CENTER 230KV	223.8145	0.03653	-0.35232	1
WERE	BROWN COUNTY 115KV	5.5	-0.31579	WERE	TECUMSEH ENERGY CENTER 115KV	68.00001	0.05078	-0.36657	1
WERE	BROWN COUNTY 115KV	5.5	-0.31579	WERE	WACO 138KV	17.96	0.01099	-0.32678	1
WERE	SOUTH SENECA 115KV	16.7	-0.28658	WERE	ABILENE ENERGY CENTER 115KV	27.95898	0.03063	-0.31721	1
WERE	SOUTH SENECA 115KV	16.7	-0.28658	WERE	CHANUTE 69KV	44.738	0.01037	-0.29658	1
WERE	SOUTH SENECA 115KV	16.7	-0.28658	WERE	CITY OF AUGUSTA 69KV	12.42	0.00387	-0.29045	1
WERE	SOUTH SENECA 115KV	16.7	-0.28658	WERE	CITY OF BURLINGTON 69KV	1.08	0.01551	-0.30209	1
WERE	SOUTH SENECA 115KV	16.7	-0.28658	WERE	CITY OF ERIE 69KV	4	0.01037	-0.29695	1
WERE	SOUTH SENECA 115KV	16.7	-0.28658	WERE	CITY OF GIRARD 69KV	1.594	0.0112	-0.29778	1
WERE	SOUTH SENECA 115KV	16.7	-0.28658	WERE	CITY OF IOLA 69KV	16.378	0.0113	-0.29788	1
WERE	SOUTH SENECA 115KV	16.7	-0.28658	WERE	CITY OF MULVANE 69KV	4.394	0.01021	-0.29679	1
WERE	SOUTH SENECA 115KV	16.7	-0.28658	WERE	CITY OF WELLINGTON 69KV	20	0.00987	-0.29645	1
WERE	SOUTH SENECA 115KV	16.7	-0.28658	WERE	CLAY CENTER JUNCTION 115KV	6.553006	0.03178	-0.31836	1
WERE	SOUTH SENECA 115KV	16.7	-0.28658	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.97	0.01551	-0.30209	1
WERE	SOUTH SENECA 115KV	16.7	-0.28658	WERE	EVANS ENERGY CENTER 138KV	305	0.01221	-0.29879	1
WERE	SOUTH SENECA 115KV	16.7	-0.28658	WERE	GILL ENERGY CENTER 138KV	77	0.01085	-0.29743	1
WERE	SOUTH SENECA 115KV	16.7	-0.28658	WERE	HUTCHINSON ENERGY CENTER 115KV	80.00001	0.02248	-0.30906	1
WERE	SOUTH SENECA 115KV	16.7	-0.28658	WERE	JEFFREY ENERGY CENTER 230KV	470	0.03845	-0.32503	1
WERE	SOUTH SENECA 115KV	16.7	-0.28658	WERE	JEFFREY ENERGY CENTER 345KV	940	0.04108	-0.32766	1
WERE	SOUTH SENECA 115KV	16.7	-0.28658	WERE	LAWRENCE ENERGY CENTER 115KV	85	0.03661	-0.32319	1
WERE	SOUTH SENECA 115KV	16.7	-0.28658	WERE	LAWRENCE ENERGY CENTER 230KV	223.8145	0.03653	-0.32311	1
WERE	SOUTH SENECA 115KV	16.7	-0.28658	WERE	TECUMSEH ENERGY CENTER 115KV	68.00001	0.05078	-0.33736	1
WERE	SOUTH SENECA 115KV	16.7	-0.28658	WERE	WACO 138KV	17.96	0.01099	-0.29757	1
WEPL	CLIFTON 115KV	70	-0.09884	WEPL	A. M. MULLERGEN GENERATOR 115KV	1.410227	0.00893	-0.10777	2
WEPL	CLIFTON 115KV	70	-0.09884	WEPL	GRAY COUNTY WIND FARM 115KV	36	0.00163	-0.10047	2
WEPL	CLIFTON 115KV	70	-0.09884	WEPL	HARPER 138KV	1.55	0.01	-0.10884	2
WEPL	CLIFTON 115KV	70	-0.09884	WEPL	JUDSON LARGE 115KV	43.67313	0.00164	-0.10048	2
WEPL	CLIFTON 115KV	70	-0.09884	WEPL	PLAINVILLE 115KV	5.25	0.00408	-0.10292	2
WEPL	CLIFTON 115KV	70	-0.09884	WEPL	RUSSELL 115KV	19.4	0.00006	-0.09878	2
WEPL	GREENLEAF 115KV	12.25	-0.13987	WEPL	A. M. MULLERGEN GENERATOR 115KV	1.410227	0.00893	-0.1488	2
WEPL	GREENLEAF 115KV	12.25	-0.13987	WEPL	BELOIT 115KV	6.25	-0.02652	-0.11335	2
WEPL	GREENLEAF 115KV	12.25	-0.13987	WEPL	GRAY COUNTY WIND FARM 115KV	36	0.00163	-0.1415	2
WEPL	GREENLEAF 115KV	12.25	-0.13987	WEPL	HARPER 138KV	1.55	0.01	-0.14987	2
WEPL	GREENLEAF 115KV	12.25	-0.13987	WEPL	JUDSON LARGE 115KV	43.67313	0.00164	-0.14151	2
WEPL	GREENLEAF 115KV	12.25	-0.13987	WEPL	PLAINVILLE 115KV	5.25	0.00408	-0.14395	2
WEPL	GREENLEAF 115KV	12.25	-0.13987	WEPL	RUSSELL 115KV	19.4	0.00006	-0.13981	2
WEPL	GREENLEAF 115KV	12.25	-0.13987	WEPL	SMITH CENTER 115KV	3.6	-0.01527	-0.1246	2
WEPL	CLIFTON 115KV	70	-0.09884	WEPL	BELOIT 115KV	6.25	-0.02652	-0.07232	3
WEPL	CLIFTON 115KV	70	-0.09884	WEPL	SMITH CENTER 115KV	3.6	-0.01527	-0.08357	3
WERE	CITY OF AUGUSTA 69KV	14.92	0.00387	WERE	TECUMSEH ENERGY CENTER 115KV	68.00001	0.05078	-0.04691	5
WERE	GETTY 69KV	35	-0.00138	WERE	TECUMSEH ENERGY CENTER 115KV	68.00001	0.05078	-0.05216	5
WERE	CHANUTE 69KV	43.062	0.01037	WERE	TECUMSEH ENERGY CENTER 115KV	68.00001	0.05078	-0.04041	6
WERE	CITY OF AUGUSTA 69KV	14.92	0.00387	WERE	JEFFREY ENERGY CENTER 345KV	940	0.04108	-0.03721	6
WERE	CITY OF ERIE 69KV	22.53	0.01037	WERE	TECUMSEH ENERGY CENTER 115KV	68.00001	0.05078	-0.04041	6

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

WERE	'CITY OF FREDONIA 69KV'	10.096	0.0092	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.0001	0.05078	-0.04158	6
WERE	'CITY OF GIRARD 69KV'	9.106	0.0112	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.0001	0.05078	-0.03958	6
WERE	'CITY OF IOLA 69KV'	21.25	0.0113	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.0001	0.05078	-0.03948	6
WERE	'CITY OF MULVANE 69KV'	11.396	0.01021	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.0001	0.05078	-0.04057	6
WERE	'CITY OF NEODESHA 69KV'	4.5	0.00935	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.0001	0.05078	-0.04143	6
WERE	'CITY OF WELLINGTON 69KV'	23.5	0.00987	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.0001	0.05078	-0.04091	6
WERE	'CITY OF WINFIELD 69KV'	40	0.00899	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.0001	0.05078	-0.04189	6
WERE	'EVANS ENERGY CENTER 138KV'	642	0.01221	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.0001	0.05078	-0.03857	6
WERE	'GETTY 69KV'	35	-0.00138	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03845	-0.03983	6
WERE	'GETTY 69KV'	35	-0.00138	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.04108	-0.04248	6
WERE	'GETTY 69KV'	35	-0.00138	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	0.03661	-0.03799	6
WERE	'GETTY 69KV'	35	-0.00138	WERE	'LAWRENCE ENERGY CENTER 230KV'	223.8145	0.03653	-0.03791	6
WERE	'GILL ENERGY CENTER 138KV'	95.99999	0.01085	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.0001	0.05078	-0.03993	6
WERE	'GILL ENERGY CENTER 69KV'	118	0.01077	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.0001	0.05078	-0.04001	6
WERE	'LATHAM1234.0 345KV'	150	0.01175	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.0001	0.05078	-0.03903	6
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.01091	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.0001	0.05078	-0.03987	6
WERE	'OXFORD 138KV'	3	0.00949	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.0001	0.05078	-0.04129	6
WERE	'ST JOHN 115KV'	7.5	0.01215	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.0001	0.05078	-0.03863	6
WERE	'CITY OF AUGUSTA 69KV'	14.92	0.00387	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03845	-0.03458	7

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

Upgrade: FT SUPPLY - WOODWARD 69KV CKT 1
 Limiting Facility: FT SUPPLY - WOODWARD 69KV CKT 1
 Direction: From->To
 Line Outage: FT SUPPLY - IODINE 138KV CKT 1
 Flowgate: 55919560961559205595711107FA
 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							
1086238	1.6	1.6							
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
WFEC	'ANADARKO 138KV'	39.82629	-0.00101	WFEC	'SLEEPING BEAR 138KV'	96	0.78989	-0.7909	2
WFEC	'ANADARKO 138KV'	90	-0.00101	WFEC	'SLEEPING BEAR 138KV'	96	0.78989	-0.7909	2
WFEC	'ANADARKO 69KV'	76	-0.00098	WFEC	'SLEEPING BEAR 138KV'	96	0.78989	-0.79087	2
WFEC	'BLUCAN14 138 138KV'	151.2	-0.00112	WFEC	'SLEEPING BEAR 138KV'	96	0.78989	-0.79101	2
WFEC	'MORLND 138KV'	320	-0.01333	WFEC	'SLEEPING BEAR 138KV'	96	0.78989	-0.80322	2

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

Upgrade: FT SUPPLY 138/69KV TRANSFORMER CKT 1
 Limiting Facility: FT SUPPLY 138/69KV TRANSFORMER CKT 1
 Direction: From->To
 Line Outage: FT SUPPLY - IODINE 138KV CKT 1
 Flowgate: 55919559201559205595712407SH
 Date Redispatch Needed: 6/1 - 10/1 Until EOC of Upgrade
 Season Flowgate Identified: 2007 Summer Shoulder

Reservation	Relief Amount	Aggregate Relief Amount							
1086238	16.0	16.0							
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
WFEC	'ANADARKO 138KV'	6.70282	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16
WFEC	'ANADARKO 138KV'	90	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16
WFEC	'ANADARKO 69KV'	76	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16
WFEC	'BLUCAN14 138 138KV'	151.2	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16
WFEC	'MORLND 138KV'	174.1555	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

Upgrade: FT SUPPLY 138/69KV TRANSFORMER CKT 1
 Limiting Facility: FT SUPPLY 138/69KV TRANSFORMER CKT 1
 Direction: From->To
 Line Outage: FT SUPPLY - IODINE 138KV CKT 1
 Flowgate: 55919559201559205595713407SH
 Date Redispatch Needed: 6/1 - 10/1 Until EOC of Upgrade
 Season Flowgate Identified: 2007 Summer Shoulder

Reservation	Relief Amount	Aggregate Relief Amount							
1086238	16.0	16.0							
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
WFEC	'ANADARKO 138KV'	90	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16
WFEC	'ANADARKO 138KV'	90	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16
WFEC	'ANADARKO 69KV'	76	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16
WFEC	'ANADARKO 69KV'	76	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16
WFEC	'BLUCAN14 138 138KV'	151.2	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16
WFEC	'BLUCAN14 138 138KV'	151.2	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16
WFEC	'MORLND 138KV'	174.1555	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16
WFEC	'MORLND 138KV'	174.1555	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

Upgrade: FT SUPPLY 138/69KV TRANSFORMER CKT 1
 Limiting Facility: FT SUPPLY 138/69KV TRANSFORMER CKT 1
 Direction: From->To
 Line Outage: IODINE - MOORELAND 138KV CKT 1
 Flowgate: 55919559201559575599911407SP
 Date Redispatch Needed: 6/1/07 - 10/1/07
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount							
1086238	16.0	16.0							
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
WFEC	'ANADARKO 138KV'	90	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	16
WFEC	'ANADARKO 138KV'	90	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	16
WFEC	'ANADARKO 69KV'	76	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	16
WFEC	'ANADARKO 69KV'	76	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	16
WFEC	'BLUCAN14 138 138KV'	151.2	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	16
WFEC	'BLUCAN14 138 138KV'	151.2	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	16
WFEC	'MORLND 138KV'	39.51605	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	16
WFEC	'MORLND 138KV'	39.51605	0	WFEC	'SLEEPING BEAR 138KV'	96	1	-1	16

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

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

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

Upgrade: FT SUPPLY 138/69KV TRANSFORMER CKT 1
 Limiting Facility: FT SUPPLY 138/69KV TRANSFORMER CKT 1
 Direction: From->To
 Line Outage: IODINE - MOORELAND 138KV CKT 1
 Flowgate: 5591955201559575599912107FA
 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								
1086238		16.0								
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)	
WFEC	'ANADARKO 138KV'	43.56542	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16	
WFEC	'ANADARKO 138KV'	90	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16	
WFEC	'ANADARKO 69KV'	76	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16	
WFEC	'BLUCAN14 138 138KV'	151.2	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16	
WFEC	'MORLND 138KV'	320	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16	

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

Upgrade: FT SUPPLY 138/69KV TRANSFORMER CKT 1
 Limiting Facility: FT SUPPLY 138/69KV TRANSFORMER CKT 1
 Direction: From->To
 Line Outage: IODINE - MOORELAND 138KV CKT 1
 Flowgate: 5591955201559575599913407FA
 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								
1086238		16.0								
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)	
WFEC	'ANADARKO 138KV'	51.9685	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16	
WFEC	'ANADARKO 138KV'	51.9685	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16	
WFEC	'ANADARKO 138KV'	90	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16	
WFEC	'ANADARKO 138KV'	90	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16	
WFEC	'ANADARKO 69KV'	76	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16	
WFEC	'ANADARKO 69KV'	76	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16	
WFEC	'BLUCAN14 138 138KV'	151.2	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16	
WFEC	'BLUCAN14 138 138KV'	151.2	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16	
WFEC	'MORLND 138KV'	320	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16	
WFEC	'MORLND 138KV'	320	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16	

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

Upgrade: FT SUPPLY 138/69KV TRANSFORMER CKT 1
 Limiting Facility: FT SUPPLY 138/69KV TRANSFORMER CKT 1
 Direction: From->To
 Line Outage: IODINE - MOORELAND 138KV CKT 1
 Flowgate: 5591955201559575599913407SH
 Date Redispatch Needed: 6/1 - 10/1 Until EOC of Upgrade
 Season Flowgate Identified: 2007 Summer Shoulder

Reservation	Relief Amount	Aggregate Relief Amount								
1086238		16.0								
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)	
WFEC	'ANADARKO 138KV'	90	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16	
WFEC	'ANADARKO 138KV'	90	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16	
WFEC	'ANADARKO 69KV'	76	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16	
WFEC	'ANADARKO 69KV'	76	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16	
WFEC	'BLUCAN14 138 138KV'	151.2	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16	
WFEC	'BLUCAN14 138 138KV'	151.2	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16	
WFEC	'MORLND 138KV'	174.1555	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16	
WFEC	'MORLND 138KV'	174.1555	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	16	

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: 57795577981HOOVER1X421107SP
 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								
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	-0.06052	WERE	'GILL ENERGY CENTER 69KV'	75	0.15877	-0.21929	21	
WERE	'CITY OF IOLA 69KV'	13.381	-0.00102	WERE	'GILL ENERGY CENTER 69KV'	75	0.15877	-0.15979	28	
WERE	'GETTY 69KV'	35	-0.00454	WERE	'GILL ENERGY CENTER 69KV'	75	0.15877	-0.16331	28	
WERE	'LATHAM1234.0 345KV'	150	-0.00278	WERE	'GILL ENERGY CENTER 69KV'	75	0.15877	-0.16155	28	
WERE	'NEOSHO ENERGY CENTER 138KV'	47	-0.001	WERE	'GILL ENERGY CENTER 69KV'	75	0.15877	-0.15977	28	
WERE	'SOUTH SENECA 115KV'	16.7	-0.0002	WERE	'GILL ENERGY CENTER 69KV'	75	0.15877	-0.15897	28	
WERE	'CITY OF WINFIELD 69KV'	40	0.01598	WERE	'GILL ENERGY CENTER 69KV'	75	0.15877	-0.14279	32	
WERE	'GETTY 69KV'	35	-0.00454	WERE	'GILL ENERGY CENTER 138KV'	171	0.05751	-0.06205	73	
WERE	'LATHAM1234.0 345KV'	150	-0.00278	WERE	'GILL ENERGY CENTER 138KV'	171	0.05751	-0.06029	75	
WERE	'NEOSHO ENERGY CENTER 138KV'	47	-0.001	WERE	'GILL ENERGY CENTER 138KV'	171	0.05751	-0.05851	77	
WERE	'CITY OF WINFIELD 69KV'	40	0.01598	WERE	'GILL ENERGY CENTER 138KV'	171	0.05751	-0.04153	109	

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

Upgrade: GILL ENERGY CENTER EAST - GILLJCT269.0 69KV CKT 1
 Limiting Facility: GILL ENERGY CENTER EAST - GILLJCT269.0 69KV CKT 1
 Direction: From->To
 Line Outage: SPP-WERE-36
 Flowgate: 57795577981SPP-WERE-364107SP
 Date Redispatch Needed: 6/1/07 - 10/1/07

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

Season Flowgate Identified: 2007 Summer Peak											
Reservation	Relief Amount	Aggregate Relief Amount									
1090817		0.5	1.4								
1090964		0.7	1.4								
1090965		0.2	1.4								
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	-0.05354	WERE	GILL ENERGY CENTER 69KV	75	0.17535	-0.22889		6	
WERE	BROWN COUNTY 115KV	5.5	-0.00019	WERE	GILL ENERGY CENTER 69KV	75	0.17535	-0.17654		8	
WERE	CHANUTE 69KV	31.077	-0.00087	WERE	GILL ENERGY CENTER 69KV	75	0.17535	-0.17622		8	
WERE	CITY OF BURLINGTON 69KV	4.7	-0.00237	WERE	GILL ENERGY CENTER 69KV	75	0.17535	-0.17772		8	
WERE	CITY OF ERIE 69KV	3.259999	-0.00087	WERE	GILL ENERGY CENTER 69KV	75	0.17535	-0.17622		8	
WERE	CITY OF FREDONIA 69KV	6.399	-0.00095	WERE	GILL ENERGY CENTER 69KV	75	0.17535	-0.1763		8	
WERE	CITY OF GIRARD 69KV	5.911	-0.00065	WERE	GILL ENERGY CENTER 69KV	75	0.17535	-0.176		8	
WERE	CITY OF IOLA 69KV	13.361	-0.00081	WERE	GILL ENERGY CENTER 69KV	75	0.17535	-0.17616		8	
WERE	CITY OF NEODESHA 69KV	4.5	-0.00083	WERE	GILL ENERGY CENTER 69KV	75	0.17535	-0.17618		8	
WERE	EVANS ENERGY CENTER 138KV	8	-0.00496	WERE	GILL ENERGY CENTER 69KV	75	0.17535	-0.18031		8	
WERE	GETTY 69KV	35	-0.00293	WERE	GILL ENERGY CENTER 69KV	75	0.17535	-0.17828		8	
WERE	LATHAM1234.0 345KV	150	-0.00228	WERE	GILL ENERGY CENTER 69KV	75	0.17535	-0.17763		8	
WERE	NEOSHO ENERGY CENTER 138KV	47	-0.00081	WERE	GILL ENERGY CENTER 69KV	75	0.17535	-0.17616		8	
WERE	SOUTH SENECA 115KV	16.7	-0.00004	WERE	GILL ENERGY CENTER 69KV	75	0.17535	-0.17539		8	
WERE	CITY OF WINFIELD 69KV	40	0.02086	WERE	GILL ENERGY CENTER 69KV	75	0.17535	-0.15449		9	
WERE	CITY OF MULVANE 69KV	7.502	-0.05354	WERE	GILL ENERGY CENTER 138KV	171	0.08372	-0.13726		10	
WERE	CITY OF MULVANE 69KV	7.502	-0.05354	WERE	WACO 138KV	17.96	0.07469	-0.12823		11	
WERE	EVANS ENERGY CENTER 138KV	8	-0.00496	WERE	GILL ENERGY CENTER 138KV	171	0.08372	-0.08868		15	
WERE	BROWN COUNTY 115KV	5.5	-0.00019	WERE	GILL ENERGY CENTER 138KV	171	0.08372	-0.08391		16	
WERE	CHANUTE 69KV	31.077	-0.00087	WERE	GILL ENERGY CENTER 138KV	171	0.08372	-0.08459		16	
WERE	CITY OF FREDONIA 69KV	6.399	-0.00095	WERE	GILL ENERGY CENTER 138KV	171	0.08372	-0.08467		16	
WERE	CITY OF GIRARD 69KV	5.911	-0.00065	WERE	GILL ENERGY CENTER 138KV	171	0.08372	-0.08437		16	
WERE	CITY OF IOLA 69KV	13.361	-0.00081	WERE	GILL ENERGY CENTER 138KV	171	0.08372	-0.08453		16	
WERE	GETTY 69KV	35	-0.00293	WERE	GILL ENERGY CENTER 138KV	171	0.08372	-0.08665		16	
WERE	LATHAM1234.0 345KV	150	-0.00228	WERE	GILL ENERGY CENTER 138KV	171	0.08372	-0.086		16	
WERE	NEOSHO ENERGY CENTER 138KV	47	-0.00081	WERE	GILL ENERGY CENTER 138KV	171	0.08372	-0.08453		16	
WERE	SOUTH SENECA 115KV	16.7	-0.00004	WERE	GILL ENERGY CENTER 138KV	171	0.08372	-0.08376		16	
WERE	EVANS ENERGY CENTER 138KV	8	-0.00496	WERE	WACO 138KV	17.96	0.07469	-0.07965		17	
WERE	CITY OF FREDONIA 69KV	6.399	-0.00095	WERE	WACO 138KV	17.96	0.07469	-0.07564		18	
WERE	CITY OF IOLA 69KV	13.361	-0.00081	WERE	WACO 138KV	17.96	0.07469	-0.0755		18	
WERE	GETTY 69KV	35	-0.00293	WERE	WACO 138KV	17.96	0.07469	-0.07762		18	
WERE	LATHAM1234.0 345KV	150	-0.00228	WERE	WACO 138KV	17.96	0.07469	-0.07697		18	
WERE	NEOSHO ENERGY CENTER 138KV	47	-0.00081	WERE	WACO 138KV	17.96	0.07469	-0.0755		18	
WERE	SOUTH SENECA 115KV	16.7	-0.00004	WERE	WACO 138KV	17.96	0.07469	-0.07473		18	
WERE	CITY OF WINFIELD 69KV	40	0.02086	WERE	GILL ENERGY CENTER 138KV	171	0.08372	-0.06286		22	
WERE	CITY OF WINFIELD 69KV	40	0.02086	WERE	WACO 138KV	17.96	0.07469	-0.05383		25	

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

Upgrade: GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1
 Limiting Facility: GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1
 Direction: From->To
 Line Outage: GILL ENERGY CENTER EAST - GILLJCT269.0 69KV CKT 1
 Flowgate: 5779557813157795579813107SP
 Date Redispatch Needed: 6/1/07 - 10/1/07
 Season Flowgate Identified: 2007 Summer Peak

Season Flowgate Identified: 2007 Summer Peak											
Reservation	Relief Amount	Aggregate Relief Amount									
1090817		0.3	0.9								
1090964		0.4	0.9								
1090965		0.2	0.9								
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	-0.08355	WERE	GILL ENERGY CENTER 69KV	45	0.19984	-0.28339		3	
WERE	BROWN COUNTY 115KV	5.5	-0.00036	WERE	GILL ENERGY CENTER 69KV	45	0.19984	-0.2002		4	
WERE	CHANUTE 69KV	31.077	-0.00107	WERE	GILL ENERGY CENTER 69KV	45	0.19984	-0.20091		4	
WERE	CITY OF BURLINGTON 69KV	4.7	-0.00242	WERE	GILL ENERGY CENTER 69KV	45	0.19984	-0.20226		4	
WERE	CITY OF ERIE 69KV	3.259999	-0.00107	WERE	GILL ENERGY CENTER 69KV	45	0.19984	-0.20091		4	
WERE	CITY OF FREDONIA 69KV	6.399	-0.0012	WERE	GILL ENERGY CENTER 69KV	45	0.19984	-0.20104		4	
WERE	CITY OF GIRARD 69KV	5.911	-0.00074	WERE	GILL ENERGY CENTER 69KV	45	0.19984	-0.20058		4	
WERE	CITY OF IOLA 69KV	13.361	-0.00097	WERE	GILL ENERGY CENTER 69KV	45	0.19984	-0.20081		4	
WERE	CITY OF NEODESHA 69KV	4.5	-0.00104	WERE	GILL ENERGY CENTER 69KV	45	0.19984	-0.20088		4	
WERE	EVANS ENERGY CENTER 138KV	63	-0.00082	WERE	GILL ENERGY CENTER 69KV	45	0.19984	-0.20066		4	
WERE	GETTY 69KV	35	-0.00407	WERE	GILL ENERGY CENTER 69KV	45	0.19984	-0.20391		4	
WERE	LATHAM1234.0 345KV	150	-0.00228	WERE	GILL ENERGY CENTER 69KV	45	0.19984	-0.20256		4	
WERE	NEOSHO ENERGY CENTER 138KV	47	-0.00095	WERE	GILL ENERGY CENTER 69KV	45	0.19984	-0.20079		4	
WERE	SOUTH SENECA 115KV	16.7	-0.00022	WERE	GILL ENERGY CENTER 69KV	45	0.19984	-0.20006		4	
WERE	CITY OF WINFIELD 69KV	40	0.02085	WERE	GILL ENERGY CENTER 69KV	45	0.19984	-0.17899		5	
WERE	CITY OF MULVANE 69KV	7.502	-0.08355	WERE	GILL ENERGY CENTER 138KV	155	0.066	-0.14955		6	
WERE	CITY OF MULVANE 69KV	7.502	-0.08355	WERE	WACO 138KV	17.96	0.0592	-0.14275		6	
WERE	GILL ENERGY CENTER 138KV	17.99999	0.066	WERE	GILL ENERGY CENTER 69KV	45	0.19984	-0.13384		7	
WERE	CITY OF MULVANE 69KV	7.502	-0.08355	WERE	BPU - CITY OF MCPHERSON 115KV	135	0.00251	-0.08606		10	
WERE	CITY OF MULVANE 69KV	7.502	-0.08355	WERE	HUTCHINSON ENERGY CENTER 115KV	158.354	0.00334	-0.08689		10	
WERE	CITY OF MULVANE 69KV	7.502	-0.08355	WERE	ABILENE ENERGY CENTER 115KV	40	0.00106	-0.08461		11	
WERE	CITY OF MULVANE 69KV	7.502	-0.08355	WERE	CHANUTE 69KV	56.723	-0.00107	-0.08248		11	
WERE	CITY OF MULVANE 69KV	7.502	-0.08355	WERE	CITY OF BURLINGTON 69KV	7.8	-0.00242	-0.08113		11	
WERE	CITY OF MULVANE 69KV	7.502	-0.08355	WERE	CITY OF ERIE 69KV	23.27	-0.00107	-0.08248		11	
WERE	CITY OF MULVANE 69KV	7.502	-0.08355	WERE	CITY OF FREDONIA 69KV	3.895	-0.0012	-0.08235		11	
WERE	CITY OF MULVANE 69KV	7.502	-0.08355	WERE	CITY OF GIRARD 69KV	4.789	-0.00074	-0.08281		11	
WERE	CITY OF MULVANE 69KV	7.502	-0.08355	WERE	CITY OF IOLA 69KV	24.267	-0.00097	-0.08258		11	
WERE	CITY OF MULVANE 69KV	7.502	-0.08355	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.97	-0.00242	-0.08113		11	
WERE	CITY OF MULVANE 69KV	7.502	-0.08355	WERE	EVANS ENERGY CENTER 138KV	510	-0.00082	-0.08273		11	
WERE	CITY OF MULVANE 69KV	7.502	-0.08355	WERE	JEFFREY ENERGY CENTER 230KV	470	0.00006	-0.08361		11	
WERE	CITY OF MULVANE 69KV	7.502	-0.08355	WERE	JEFFREY ENERGY CENTER 345KV	940	0.00005	-0.0836		11	
WERE	CITY OF MULVANE 69KV	7.502	-0.08355	WERE	TECUMSEH ENERGY CENTER 115KV	128	-0.00019	-0.08336		11	
WERE	CITY OF WINFIELD 69KV	40	0.02085	WERE	CITY OF WELLINGTON 69KV	41.45	0.09494	-0.07409		12	
WERE	BROWN COUNTY 115KV	5.5	-0.00036	WERE	GILL ENERGY CENTER 138KV	155	0.066	-0.06636		13	
WERE	CHANUTE 69KV	31.077	-0.00107	WERE	GILL ENERGY CENTER 138KV	155	0.066	-0.06707		13	
WERE	CITY OF BURLINGTON 69KV	4.7	-0.00242	WERE	GILL ENERGY CENTER 138KV	155	0.066	-0.06842		13	
WERE	CITY OF FREDONIA 69KV	6.399	-0.0012	WERE	GILL ENERGY CENTER 138KV	155	0.066	-0.0672		13	
WERE	CITY OF GIRARD 69KV	5.911	-0.00074	WERE	GILL ENERGY CENTER 138KV	155	0.066	-0.06674		13	
WERE	CITY OF IOLA 69KV	13.361	-0.00097	WERE	GILL ENERGY CENTER 138KV	155	0.066	-0.06697		13	
WERE	CITY OF NEODESHA 69KV	4.5	-0.00104	WERE	GILL ENERGY CENTER 138KV	155	0.066	-0.06704		13	
WERE	EVANS ENERGY CENTER 138KV	63	-0.00082	WERE	GILL ENERGY CENTER 138KV	155	0.066	-0.06682		13	
WERE	GETTY 69KV	35	-0.00407	WERE	GILL ENERGY CENTER 138KV	155	0.066	-0.07007		13	
WERE	LATHAM1234.0 345KV	150	-0.00228	WERE	GILL ENERGY CENTER 138KV	155	0.066	-0.06872		13	
WERE	NEOSHO ENERGY CENTER 138KV	47	-0.00095	WERE	GILL ENERGY CENTER 138KV	155	0.066	-0.06695		13	
WERE	SOUTH SENECA 115KV	16.7	-0.00022	WERE	GILL ENERGY CENTER 138KV	155	0.066	-0.06622		13	
WERE	CITY OF BURLINGTON 69KV	4.7	-0.00242	WERE	WACO 138KV	17.96	0.0592	-0.06162		14	
WERE	GETTY 69KV	35	-0.00407	WERE	WACO 138KV	17.96	0.0592	-0.06327		14	
WERE	LATHAM1234.0 345KV	150	-0.00228	WERE	WACO 138KV	17.96	0.0592	-0.06192		14	
WERE	BROWN COUNTY 115KV	5.5	-0.00036	WERE	WACO 138KV	17.96	0.0592	-0.05956		15	
WERE	CHANUTE 69KV	31.077	-0.00107	WERE	WACO 138KV	17.96	0.0592	-0.06027		15	
WERE	CITY OF FREDONIA 69KV	6.399	-0.0012	WERE	WACO 138KV	17.96	0.0592	-0.0604		15	

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

WERE	CITY OF GIRARD 69KV'	5.911	-0.00074	WERE	WACO 138KV'	17.96	0.0592	-0.05994	15
WERE	CITY OF IOLA 69KV'	13.361	-0.00097	WERE	WACO 138KV'	17.96	0.0592	-0.06017	15
WERE	EVANS ENERGY CENTER 138KV'	63	-0.00082	WERE	WACO 138KV'	17.96	0.0592	-0.06002	15
WERE	NEOSHO ENERGY CENTER 138KV'	47	-0.00095	WERE	WACO 138KV'	17.96	0.0592	-0.06015	15
WERE	SOUTH SENECA 115KV'	16.7	-0.00022	WERE	WACO 138KV'	17.96	0.0592	-0.05942	15
WERE	CITY OF WINFIELD 69KV'	40	0.02085	WERE	GILL ENERGY CENTER 138KV'	155	0.066	-0.04515	20
WERE	CITY OF WINFIELD 69KV'	40	0.02085	WERE	WACO 138KV'	17.96	0.0592	-0.03835	23

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

Factor = Souce GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

Upgrade: HAMON BUTLER - MOREWOOD 69KV CKT 1
 Limiting Facility: HAMON BUTLER - MOREWOOD 69KV CKT 1
 Direction: From->To
 Line Outage: MOORELAND - MOREWOOD SW 138KV CKT 1
 Flowgate: 5594256001559995600111407SP
 Date Redispatch Needed: 6/1/07 - 10/1/07
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount								
1086238	1.4	1.4								
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)	
WFEC	ANADARKO 138KV'	90	-0.01306	WFEC	SLEEPING BEAR 138KV'	96	0.0862	-0.09926	16	
WFEC	ANADARKO 138KV'	90	-0.01306	WFEC	SLEEPING BEAR 138KV'	96	0.0862	-0.09926	16	
WFEC	BLUCAN14 138 138KV'	151.2	-0.01552	WFEC	MORLND 138KV'	280.4839	0.08457	-0.10009	16	
WFEC	BLUCAN14 138 138KV'	151.2	-0.01552	WFEC	MORLND 138KV'	280.4839	0.08457	-0.10009	16	
WFEC	BLUCAN14 138 138KV'	151.2	-0.01552	WFEC	SLEEPING BEAR 138KV'	96	0.0862	-0.10172	16	
WFEC	BLUCAN14 138 138KV'	151.2	-0.01552	WFEC	SLEEPING BEAR 138KV'	96	0.0862	-0.10172	16	
WFEC	ANADARKO 138KV'	90	-0.01306	WFEC	MORLND 138KV'	280.4839	0.08457	-0.09763	17	
WFEC	ANADARKO 138KV'	90	-0.01306	WFEC	MORLND 138KV'	280.4839	0.08457	-0.09763	17	
WFEC	ANADARKO 69KV'	76	-0.01142	WFEC	MORLND 138KV'	280.4839	0.08457	-0.09599	17	
WFEC	ANADARKO 69KV'	76	-0.01142	WFEC	MORLND 138KV'	280.4839	0.08457	-0.09599	17	
WFEC	ANADARKO 69KV'	76	-0.01142	WFEC	SLEEPING BEAR 138KV'	96	0.0862	-0.09762	17	
WFEC	ANADARKO 69KV'	76	-0.01142	WFEC	SLEEPING BEAR 138KV'	96	0.0862	-0.09762	17	
OKGE	MUSKOGEE 161KV'	166	0.00099	OKGE	FPLWND2 34KV'	102	0.08465	-0.08366	19	
OKGE	MUSKOGEE 161KV'	166	0.00099	OKGE	FPLWND2 34KV'	102	0.08465	-0.08366	19	
OKGE	MUSKOGEE 161KV'	31	0.00099	OKGE	FPLWND2 34KV'	102	0.08465	-0.08366	19	
OKGE	MUSKOGEE 161KV'	31	0.00099	OKGE	FPLWND2 34KV'	102	0.08465	-0.08366	19	
OKGE	MUSKOGEE 345KV'	20	0.00098	OKGE	FPLWND2 34KV'	102	0.08465	-0.08367	19	
OKGE	MUSKOGEE 345KV'	20	0.00098	OKGE	FPLWND2 34KV'	102	0.08465	-0.08367	19	
OKGE	SEMINOLE 138KV'	30.26254	0.00043	OKGE	FPLWND2 34KV'	102	0.08465	-0.08422	19	
OKGE	SEMINOLE 138KV'	30.26254	0.00043	OKGE	FPLWND2 34KV'	102	0.08465	-0.08422	19	
OKGE	HORSESHOE LAKE 138KV'	168.8428	0.00198	OKGE	FPLWND2 34KV'	102	0.08465	-0.08267	20	
OKGE	HORSESHOE LAKE 138KV'	168.8428	0.00198	OKGE	FPLWND2 34KV'	102	0.08465	-0.08267	20	
OKGE	MCCLAIN 138KV'	42	0.00175	OKGE	FPLWND2 34KV'	102	0.08465	-0.0829	20	
OKGE	MCCLAIN 138KV'	42	0.00175	OKGE	FPLWND2 34KV'	102	0.08465	-0.0829	20	
OKGE	ONE OAK 345KV'	261	0.00295	OKGE	FPLWND2 34KV'	102	0.08465	-0.0817	20	
OKGE	ONE OAK 345KV'	261	0.00295	OKGE	FPLWND2 34KV'	102	0.08465	-0.0817	20	
OKGE	REDBUD 345KV'	900	0.00224	OKGE	FPLWND2 34KV'	102	0.08465	-0.08241	20	
OKGE	REDBUD 345KV'	900	0.00224	OKGE	FPLWND2 34KV'	102	0.08465	-0.08241	20	
OKGE	REDBUD 345KV'	300	0.00224	OKGE	FPLWND2 34KV'	102	0.08465	-0.08241	20	
OKGE	REDBUD 345KV'	300	0.00224	OKGE	FPLWND2 34KV'	102	0.08465	-0.08241	20	
OKGE	TINKER 5G 138KV'	62	0.00145	OKGE	FPLWND2 34KV'	102	0.08465	-0.0832	20	
OKGE	TINKER 5G 138KV'	62	0.00145	OKGE	FPLWND2 34KV'	102	0.08465	-0.0832	20	
OKGE	SOONER 138KV'	24.99997	0.00068	OKGE	FPLWND2 34KV'	102	0.08465	-0.07785	21	
OKGE	SOONER 138KV'	24.99997	0.00068	OKGE	FPLWND2 34KV'	102	0.08465	-0.07785	21	
OKGE	SOUTH 4TH ST 69KV'	42.7	0.02149	OKGE	FPLWND2 34KV'	102	0.08465	-0.06316	26	
OKGE	SOUTH 4TH ST 69KV'	42.7	0.02149	OKGE	FPLWND2 34KV'	102	0.08465	-0.06316	26	

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

Factor = Souce GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

Upgrade: HAMON BUTLER - MOREWOOD 69KV CKT 1
 Limiting Facility: HAMON BUTLER - MOREWOOD 69KV CKT 1
 Direction: From->To
 Line Outage: MOORELAND - MOREWOOD SW 138KV CKT 1
 Flowgate: 5594256001559995600111407WP
 Date Redispatch Needed: 12/1/07 - 4/1/08
 Season Flowgate Identified: 2007 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount							
1086238	1.4	1.4							
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
OKGE	AES 161KV'	78.99999	0.00058	OKGE	SLEEPING BEAR 34KV'	120	0.09028	-0.0897	18
OKGE	AES 161KV'	78.99999	0.00058	OKGE	SLEEPING BEAR 34KV'	120	0.09028	-0.0897	18
OKGE	HORSESHOE LAKE 138KV'	380	0.00196	OKGE	SLEEPING BEAR 34KV'	120	0.09028	-0.08832	18
OKGE	HORSESHOE LAKE 138KV'	380	0.00196	OKGE	SLEEPING BEAR 34KV'	120	0.09028	-0.08832	18
OKGE	HORSESHOE LAKE 138KV'	380.5	0.00196	OKGE	SLEEPING BEAR 34KV'	120	0.09028	-0.08832	18
OKGE	HORSESHOE LAKE 138KV'	380.5	0.00196	OKGE	SLEEPING BEAR 34KV'	120	0.09028	-0.08832	18
OKGE	HORSESHOE LAKE 138KV'	91	0.00196	OKGE	SLEEPING BEAR 34KV'	120	0.09028	-0.08832	18
OKGE	HORSESHOE LAKE 138KV'	91	0.00196	OKGE	SLEEPING BEAR 34KV'	120	0.09028	-0.08832	18
OKGE	HORSESHOE LAKE 69KV'	16	0.00174	OKGE	SLEEPING BEAR 34KV'	120	0.09028	-0.08854	18
OKGE	HORSESHOE LAKE 69KV'	16	0.00174	OKGE	SLEEPING BEAR 34KV'	120	0.09028	-0.08854	18
OKGE	MCCLAIN 138KV'	42	0.00174	OKGE	SLEEPING BEAR 34KV'	120	0.09028	-0.08854	18
OKGE	MCCLAIN 138KV'	42	0.00174	OKGE	SLEEPING BEAR 34KV'	120	0.09028	-0.08854	18
OKGE	MUSKOGEE 161KV'	166	0.00098	OKGE	SLEEPING BEAR 34KV'	120	0.09028	-0.0893	18
OKGE	MUSKOGEE 161KV'	166	0.00098	OKGE	SLEEPING BEAR 34KV'	120	0.09028	-0.0893	18
OKGE	MUSKOGEE 161KV'	31	0.00098	OKGE	SLEEPING BEAR 34KV'	120	0.09028	-0.0893	18
OKGE	MUSKOGEE 161KV'	31	0.00098	OKGE	SLEEPING BEAR 34KV'	120	0.09028	-0.0893	18
OKGE	MUSKOGEE 345KV'	20	0.00098	OKGE	SLEEPING BEAR 34KV'	120	0.09028	-0.08932	18
OKGE	MUSKOGEE 345KV'	20	0.00098	OKGE	SLEEPING BEAR 34KV'	120	0.09028	-0.08932	18
OKGE	SEMINOLE 138KV'	312.58	0.00042	OKGE	SLEEPING BEAR 34KV'	120	0.09028	-0.08986	18
OKGE	SEMINOLE 138KV'	312.58	0.00042	OKGE	SLEEPING BEAR 34KV'	120	0.09028	-0.08986	18
OKGE	SEMINOLE 345KV'	507.6	0.0009	OKGE	SLEEPING BEAR 34KV'	120	0.09028	-0.08938	18
OKGE	SEMINOLE 345KV'	507.6	0.0009	OKGE	SLEEPING BEAR 34KV'	120	0.09028	-0.08938	18
OKGE	TINKER 5G 138KV'	62	0.00143	OKGE	SLEEPING BEAR 34KV'	120	0.09028	-0.08885	18
OKGE	TINKER 5G 138KV'	62	0.00143	OKGE	SLEEPING BEAR 34KV'	120	0.09028	-0.08885	18
OKGE	AES 161KV'	78.99999	0.00058	OKGE	FPLWND2 34KV'	102	0.08464	-0.08406	19
OKGE	AES 161KV'	78.99999	0.00058	OKGE	FPLWND2 34KV'	102	0.08464	-0.08406	19
OKGE	MUSKOGEE 345KV'	20	0.00096	OKGE	FPLWND2 34KV'	102	0.08464	-0.08368	19
OKGE	MUSKOGEE 345KV'	20	0.00096	OKGE	FPLWND2 34KV'	102	0.08464	-0.08368	19
OKGE	MUSTANG 138KV'	365.5	0.00244	OKGE	SLEEPING BEAR 34KV'	120	0.09028	-0.08784	19
OKGE	MUSTANG 138KV'	365.5	0.00244	OKGE	SLEEPING BEAR 34KV'	120	0.09028	-0.08784	19
OKGE	MUSTANG 69KV'	106	0.00321	OKGE	SLEEPING BEAR 34KV'	120	0.09028	-0.08707	19
OKGE	MUSTANG 69KV'	106	0.00321	OKGE	SLEEPING BEAR 34KV'	120	0.09028	-0.08707	19
OKGE	ONE OAK 345KV'	334	0.00294	OKGE	SLEEPING BEAR 34KV'	120	0.09028	-0.08734	19
OKGE	ONE OAK 345KV'	334	0.00294	OKGE	SLEEPING BEAR 34KV'	120	0.09028	-0.08734	19
OKGE	REDBUD 345KV'	900	0.00223	OKGE	SLEEPING BEAR 34KV'	120	0.09028	-0.08805	19
OKGE	REDBUD 345KV'	900	0.00223	OKGE	SLEEPING BEAR 34KV'	120	0.09028	-0.08805	19
OKGE	REDBUD 345KV'	300	0.00223	OKGE	SLEEPING BEAR 34KV'	120	0.09028	-0.08805	19

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

OKGE	REDBUD 345KV	300	0.00223	OKGE	SLEEPING BEAR 34KV	120	0.09028	-0.08805	19
OKGE	SEMINOLE 138KV	312.58	0.00042	OKGE	FPLWIND2 34KV	102	0.08464	-0.08422	19
OKGE	SEMINOLE 138KV	312.58	0.00042	OKGE	FPLWIND2 34KV	102	0.08464	-0.08422	19
OKGE	SEMINOLE 345KV	507.6	0.0009	OKGE	FPLWIND2 34KV	102	0.08464	-0.08374	19
OKGE	SEMINOLE 345KV	507.6	0.0009	OKGE	FPLWIND2 34KV	102	0.08464	-0.08374	19
OKGE	HORSESHOE LAKE 138KV	380	0.00196	OKGE	FPLWIND2 34KV	102	0.08464	-0.08268	20
OKGE	HORSESHOE LAKE 138KV	380	0.00196	OKGE	FPLWIND2 34KV	102	0.08464	-0.08268	20
OKGE	HORSESHOE LAKE 138KV	380.5	0.00196	OKGE	FPLWIND2 34KV	102	0.08464	-0.08268	20
OKGE	HORSESHOE LAKE 138KV	380.5	0.00196	OKGE	FPLWIND2 34KV	102	0.08464	-0.08268	20
OKGE	HORSESHOE LAKE 138KV	91	0.00196	OKGE	FPLWIND2 34KV	102	0.08464	-0.08268	20
OKGE	HORSESHOE LAKE 138KV	91	0.00196	OKGE	FPLWIND2 34KV	102	0.08464	-0.08268	20
OKGE	HORSESHOE LAKE 69KV	16	0.00174	OKGE	FPLWIND2 34KV	102	0.08464	-0.0829	20
OKGE	HORSESHOE LAKE 69KV	16	0.00174	OKGE	FPLWIND2 34KV	102	0.08464	-0.0829	20
OKGE	MCCLAIN 138KV	42	0.00174	OKGE	FPLWIND2 34KV	102	0.08464	-0.0829	20
OKGE	MCCLAIN 138KV	42	0.00174	OKGE	FPLWIND2 34KV	102	0.08464	-0.0829	20
OKGE	MUSKOGEE 161KV	166	0.00098	OKGE	FPLWIND2 34KV	102	0.08464	-0.08366	20
OKGE	MUSKOGEE 161KV	166	0.00098	OKGE	FPLWIND2 34KV	102	0.08464	-0.08366	20
OKGE	MUSKOGEE 161KV	31	0.00098	OKGE	FPLWIND2 34KV	102	0.08464	-0.08366	20
OKGE	MUSKOGEE 161KV	31	0.00098	OKGE	FPLWIND2 34KV	102	0.08464	-0.08366	20
OKGE	MUSTANG 138KV	365.5	0.00244	OKGE	FPLWIND2 34KV	102	0.08464	-0.0822	20
OKGE	MUSTANG 138KV	365.5	0.00244	OKGE	FPLWIND2 34KV	102	0.08464	-0.0822	20
OKGE	MUSTANG 69KV	106	0.00321	OKGE	FPLWIND2 34KV	102	0.08464	-0.08143	20
OKGE	MUSTANG 69KV	106	0.00321	OKGE	FPLWIND2 34KV	102	0.08464	-0.08143	20
OKGE	ONE OAK 345KV	334	0.00294	OKGE	FPLWIND2 34KV	102	0.08464	-0.0817	20
OKGE	ONE OAK 345KV	334	0.00294	OKGE	FPLWIND2 34KV	102	0.08464	-0.0817	20
OKGE	REDBUD 345KV	900	0.00223	OKGE	FPLWIND2 34KV	102	0.08464	-0.08241	20
OKGE	REDBUD 345KV	900	0.00223	OKGE	FPLWIND2 34KV	102	0.08464	-0.08241	20
OKGE	REDBUD 345KV	300	0.00223	OKGE	FPLWIND2 34KV	102	0.08464	-0.08241	20
OKGE	REDBUD 345KV	300	0.00223	OKGE	FPLWIND2 34KV	102	0.08464	-0.08241	20
OKGE	SOONER 138KV	24.99997	0.00678	OKGE	SLEEPING BEAR 34KV	120	0.09028	-0.0835	20
OKGE	SOONER 138KV	24.99997	0.00678	OKGE	SLEEPING BEAR 34KV	120	0.09028	-0.0835	20
OKGE	TINKER 5G 138KV	62	0.00143	OKGE	FPLWIND2 34KV	102	0.08464	-0.08321	20
OKGE	TINKER 5G 138KV	62	0.00143	OKGE	FPLWIND2 34KV	102	0.08464	-0.08321	20
OKGE	SOONER 138KV	24.99997	0.00678	OKGE	FPLWIND2 34KV	102	0.08464	-0.07786	21
OKGE	SOONER 138KV	24.99997	0.00678	OKGE	FPLWIND2 34KV	102	0.08464	-0.07786	21
OKGE	SOUTH 4TH ST 69KV	42.7	0.02148	OKGE	SLEEPING BEAR 34KV	120	0.09028	-0.0688	24
OKGE	SOUTH 4TH ST 69KV	42.7	0.02148	OKGE	SLEEPING BEAR 34KV	120	0.09028	-0.0688	24
OKGE	SOUTH 4TH ST 69KV	42.7	0.02148	OKGE	FPLWIND2 34KV	102	0.08464	-0.06316	26
OKGE	SOUTH 4TH ST 69KV	42.7	0.02148	OKGE	FPLWIND2 34KV	102	0.08464	-0.06316	26

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

Upgrade: HAYS PLANT - SOUTH HAYS 115KV CKT 1
 Limiting Facility: HAYS PLANT - SOUTH HAYS 115KV CKT 1
 Direction: From->To
 Line Outage: KNOLL 230/115KV TRANSFORMER CKT 1
 Flowgate: 56562565531565585656112307SH
 Date Redispatch Needed: 6/1 - 10/1 Until EOC of Upgrade
 Season Flowgate Identified: 2007 Summer Shoulder

Reservation	Relief Amount	Aggregate Relief Amount
1090817	1.3	3.8
1090964	1.8	3.8
1090965	0.7	3.8

Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
MIDW	KNOLL 3 115 115KV	234.36	-0.64866	MIDW	COLBY 115KV	4.24448	-0.1303	-0.51835	7
WEPL	PLAINVILLE 115KV	5.79	-0.5298	WEPL	A. M. MULLERGREEN GENERATOR 115KV	63	0.04612	-0.57582	7
WEPL	PLAINVILLE 115KV	5.79	-0.5298	WEPL	GRAY COUNTY WIND FARM 115KV	100	0.01037	-0.54017	7
WEPL	PLAINVILLE 115KV	5.79	-0.5298	WEPL	JUDSON LARGE 115KV	115.9052	0.01033	-0.54013	7
WEPL	PLAINVILLE 115KV	5.79	-0.5298	WEPL	CLIFTON 115KV	3.766052	-0.05729	-0.47251	8
SUNC	CITY OF HILL CITY 115KV	6.1	-0.39982	SUNC	GARDEN CITY 115KV	17.70877	-0.1185	-0.38797	10
SUNC	CITY OF HILL CITY 115KV	6.1	-0.39982	SUNC	HOLCOMB 115KV	267.8818	-0.01122	-0.3886	10
SUNC	CITY OF NORTON 115KV	10.56	-0.35911	SUNC	GARDEN CITY 115KV	17.70877	-0.1185	-0.34726	11
SUNC	CITY OF NORTON 115KV	10.56	-0.35911	SUNC	HOLCOMB 115KV	267.8818	-0.01122	-0.34789	11
WEPL	SMITH CENTER 115KV	6.15	-0.16445	WEPL	A. M. MULLERGREEN GENERATOR 115KV	63	0.04612	-0.21057	18
WEPL	BELOIT 115KV	16.6	-0.10256	WEPL	A. M. MULLERGREEN GENERATOR 115KV	63	0.04612	-0.14868	26
WEPL	BELOIT 115KV	16.6	-0.10256	WEPL	GRAY COUNTY WIND FARM 115KV	100	0.01037	-0.11293	34
WEPL	BELOIT 115KV	16.6	-0.10256	WEPL	JUDSON LARGE 115KV	115.9052	0.01033	-0.11289	34
WEPL	CLIFTON 115KV	61.23395	-0.05729	WEPL	A. M. MULLERGREEN GENERATOR 115KV	63	0.04612	-0.10341	37
WEPL	GREENLEAF 115KV	14.2	-0.0483	WEPL	A. M. MULLERGREEN GENERATOR 115KV	63	0.04612	-0.09442	40
WEPL	RUSSELL 115KV	27.9	-0.03206	WEPL	A. M. MULLERGREEN GENERATOR 115KV	63	0.04612	-0.07818	49
WEPL	CLIFTON 115KV	61.23395	-0.05729	WEPL	GRAY COUNTY WIND FARM 115KV	100	0.01037	-0.06786	57
WEPL	CLIFTON 115KV	61.23395	-0.05729	WEPL	JUDSON LARGE 115KV	115.9052	0.01033	-0.06762	57

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

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

Reservation	Relief Amount	Aggregate Relief Amount
1090310	1.9	2.3
1090456	0.4	2.3

Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
SUNC	CITY OF LAKIN 115KV	4.25	-0.35072	SUNC	GARDEN CITY 115KV	14.4957	0.09327	-0.44399	5
SUNC	CITY OF LAKIN 115KV	4.25	-0.35072	SUNC	HOLCOMB 115KV	269.7445	0.10162	-0.45234	5
SUNC	JOHNSON 69KV	5.2	-0.37189	SUNC	GARDEN CITY 115KV	14.4957	0.09327	-0.46516	5
SUNC	JOHNSON 69KV	5.2	-0.37189	SUNC	HOLCOMB 115KV	269.7445	0.10162	-0.47351	5
WEPL	CIMARRON RIVER 115KV	72	-0.36629	WEPL	GRAY COUNTY WIND FARM 115KV	63	-0.07788	-0.28841	8
WEPL	CIMARRON RIVER 115KV	72	-0.36629	WEPL	JUDSON LARGE 115KV	114.034	-0.07919	-0.2871	8
SUNC	CITY OF GOODLAND 115KV	13.9	-0.01661	SUNC	HOLCOMB 115KV	269.7445	0.10162	-0.11823	20
SUNC	CITY OF GOODLAND 115KV	13.9	-0.01661	SUNC	GARDEN CITY 115KV	14.4957	0.09327	-0.10988	21
SUNC	CITY OF NORTON 115KV	10.56	0.00404	SUNC	HOLCOMB 115KV	269.7445	0.10162	-0.09758	24
SUNC	CITY OF NORTON 115KV	10.56	0.00404	SUNC	GARDEN CITY 115KV	14.4957	0.09327	-0.08923	26

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

Upgrade: LACYGNE-PAOLA-WEST GARDNER 345KV
 Limiting Facility: WEST GARDNER (WGARD 11) 345/161/13.8KV TRANSFORMER CKT 11
 Direction: From->To
 Line Outage: CRAIG - WEST GARDNER 345KV CKT 1
 Flowgate: WGAARD112751157975796512307SH

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

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

Reservation	Relief Amount	Aggregate Relief Amount											
1090817	1.4	3.9											
1090964	1.9	3.9											
1090965	0.6	3.9											
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)				
KACP	BULL CREEK 161KV'	308	-0.35429	KACP	LACYGNE UNIT 345KV'	958	0.12676	-0.48105	8				
KACP	GARDNER 161KV'	11	-0.29091	KACP	LACYGNE UNIT 345KV'	958	0.12676	-0.41767	9				
KACP	BULL CREEK 161KV'	308	-0.35429	KACP	MONTROSE 161KV'	363.0322	-0.03288	-0.32141	12				
KACP	BULL CREEK 161KV'	308	-0.35429	KACP	HAWTHORN 161KV'	455	-0.05543	-0.29886	13				
KACP	BULL CREEK 161KV'	308	-0.35429	KACP	HAWTHORN 161KV'	104.0518	-0.05543	-0.29886	13				
KACP	BULL CREEK 161KV'	308	-0.35429	KACP	IATAN 345KV'	396	-0.05844	-0.29585	13				
KACP	GARDNER 161KV'	11	-0.29091	KACP	MONTROSE 161KV'	363.0322	-0.03288	-0.25803	15				
KACP	GARDNER 161KV'	11	-0.29091	KACP	HAWTHORN 161KV'	455	-0.05543	-0.23548	16				
KACP	GARDNER 161KV'	11	-0.29091	KACP	HAWTHORN 161KV'	104.0518	-0.05543	-0.23548	16				
KACP	GARDNER 161KV'	11	-0.29091	KACP	IATAN 345KV'	396	-0.05844	-0.23247	17				
KACP	PAOLA COMBUSTION TURBINES 161KV'	77	-0.10104	KACP	LACYGNE UNIT 345KV'	958	0.12676	-0.2278	17				
KACP	GRAND AVENUE 161KV'	65	-0.06483	KACP	LACYGNE UNIT 345KV'	958	0.12676	-0.19159	20				
KACP	NORTHEAST 13KV'	56	-0.06329	KACP	LACYGNE UNIT 345KV'	958	0.12676	-0.19005	20				
KACP	NORTHEAST 13KV'	56	-0.06329	KACP	LACYGNE UNIT 345KV'	958	0.12676	-0.19005	20				
KACP	NORTHEAST 13KV'	58	-0.06329	KACP	LACYGNE UNIT 345KV'	958	0.12676	-0.19005	20				
KACP	NORTHEAST 13KV'	59	-0.06329	KACP	LACYGNE UNIT 345KV'	958	0.12676	-0.19005	20				
KACP	NORTHEAST 161KV'	55	-0.06329	KACP	LACYGNE UNIT 345KV'	958	0.12676	-0.19005	20				
KACP	NORTHEAST 161KV'	58	-0.06329	KACP	LACYGNE UNIT 345KV'	958	0.12676	-0.19005	20				
KACP	NORTHEAST 161KV'	58	-0.06329	KACP	LACYGNE UNIT 345KV'	958	0.12676	-0.19005	20				
KACP	NORTHEAST 161KV'	58	-0.06329	KACP	LACYGNE UNIT 345KV'	958	0.12676	-0.19005	20				
KACP	NORTHEAST 161KV'	58	-0.06329	KACP	LACYGNE UNIT 345KV'	958	0.12676	-0.19005	20				
KACP	HAWTHORN 161KV'	209.9482	-0.05543	KACP	LACYGNE UNIT 345KV'	958	0.12676	-0.18219	21				
KACP	MONTROSE 161KV'	17.9678	-0.03288	KACP	LACYGNE UNIT 345KV'	958	0.12676	-0.15964	24				
KACP	CITY OF HIGGINSVILLE 69KV'	36	-0.02813	KACP	LACYGNE UNIT 345KV'	958	0.12676	-0.15489	25				
KACP	MARSHALL 161KV'	54.1	-0.02188	KACP	LACYGNE UNIT 345KV'	958	0.12676	-0.14864	26				
WERE	HOLTON 115KV'	19.8	-0.03178	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.08468	-0.11646	33				
WERE	JEFFREY ENERGY CENTER 345KV'	42	-0.03095	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.08468	-0.11563	33				
WERE	LAWRENCE ENERGY CENTER 230KV'	39.46381	-0.03124	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.08468	-0.11592	33				
WERE	JEFFREY ENERGY CENTER 230KV'	24	-0.02892	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.08468	-0.1136	34				
WERE	SOUTH SENECA 115KV'	16.7	-0.02462	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.08468	-0.1093	35				
WERE	CLAY CENTER JUNCTION 115KV'	26.275	-0.02137	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.08468	-0.10605	36				
WERE	LAWRENCE ENERGY CENTER 115KV'	78	-0.0371	WERE	WACO 138KV'	17.947	0.04186	-0.07896	49				
WERE	HOLTON 115KV'	19.8	-0.03178	WERE	GILL ENERGY CENTER 138KV'	88.69849	0.04195	-0.07373	52				
WERE	HOLTON 115KV'	19.8	-0.03178	WERE	WACO 138KV'	17.947	0.04186	-0.07364	52				
WERE	HOLTON 115KV'	19.8	-0.03178	WERE	EVANS ENERGY CENTER 138KV'	305	0.04102	-0.0728	53				
WERE	JEFFREY ENERGY CENTER 345KV'	42	-0.03095	WERE	GILL ENERGY CENTER 138KV'	88.69849	0.04195	-0.0729	53				
WERE	JEFFREY ENERGY CENTER 345KV'	42	-0.03095	WERE	WACO 138KV'	17.947	0.04186	-0.07281	53				
WERE	LAWRENCE ENERGY CENTER 230KV'	39.46381	-0.03124	WERE	EVANS ENERGY CENTER 138KV'	305	0.04102	-0.07226	53				
WERE	LAWRENCE ENERGY CENTER 230KV'	39.46381	-0.03124	WERE	GILL ENERGY CENTER 138KV'	88.69849	0.04195	-0.07319	53				
WERE	LAWRENCE ENERGY CENTER 230KV'	39.46381	-0.03124	WERE	WACO 138KV'	17.947	0.04186	-0.0731	53				
WERE	JEFFREY ENERGY CENTER 230KV'	24	-0.02892	WERE	GILL ENERGY CENTER 138KV'	88.69849	0.04195	-0.07087	54				
WERE	JEFFREY ENERGY CENTER 345KV'	42	-0.03095	WERE	EVANS ENERGY CENTER 138KV'	305	0.04102	-0.07197	54				
WERE	JEFFREY ENERGY CENTER 230KV'	24	-0.02892	WERE	EVANS ENERGY CENTER 138KV'	305	0.04102	-0.06994	55				
KACP	PAOLA COMBUSTION TURBINES 161KV'	77	-0.10104	KACP	MONTROSE 161KV'	363.0322	-0.03288	-0.06816	57				
WERE	CLAY CENTER JUNCTION 115KV'	26.275	-0.02137	WERE	GILL ENERGY CENTER 138KV'	88.69849	0.04195	-0.06332	61				
WERE	CLAY CENTER JUNCTION 115KV'	26.275	-0.02137	WERE	EVANS ENERGY CENTER 138KV'	305	0.04102	-0.06239	62				
WERE	JEFFREY ENERGY CENTER 345KV'	42	-0.03095	WERE	CITY OF ERIE 69KV'	23.258	0.02719	-0.05814	66				
WERE	LAWRENCE ENERGY CENTER 230KV'	39.46381	-0.03124	WERE	CITY OF ERIE 69KV'	23.258	0.02719	-0.05843	66				
WERE	JEFFREY ENERGY CENTER 230KV'	24	-0.02892	WERE	CHANUTE 69KV'	46.817	0.02719	-0.05611	69				
WERE	JEFFREY ENERGY CENTER 230KV'	24	-0.02892	WERE	CITY OF ERIE 69KV'	23.258	0.02719	-0.05611	69				
KACP	PAOLA COMBUSTION TURBINES 161KV'	77	-0.10104	KACP	HAWTHORN 161KV'	455	-0.05543	-0.04561	85				
KACP	PAOLA COMBUSTION TURBINES 161KV'	77	-0.10104	KACP	HAWTHORN 161KV'	104.0518	-0.05543	-0.04561	85				
SWPA	TRUMAN 161KV'	83.20001	-0.01857	SWPA	KEYSTONE DAM 161KV'	56.6	0.02606	-0.04463	86				
KACP	PAOLA COMBUSTION TURBINES 161KV'	77	-0.10104	KACP	IATAN 345KV'	396	-0.05844	-0.0426	91				
SWPA	TRUMAN 161KV'	83.20001	-0.01857	SWPA	FORT GIBSON 161KV'	40.4	0.02209	-0.04066	95				
SWPA	TRUMAN 161KV'	83.20001	-0.01857	SWPA	DENISON 138KV'	56.6	0.02121	-0.03978	97				
SWPA	TRUMAN 161KV'	83.20001	-0.01857	SWPA	WEBBERS FALLS 161KV'	37.2	0.02032	-0.03889	99				
SWPA	TRUMAN 161KV'	83.20001	-0.01857	SWPA	BEAVER 161KV'	95.14116	0.01789	-0.03646	106				
SWPA	TRUMAN 161KV'	83.20001	-0.01857	SWPA	ROBERT S. KERR 161KV'	102	0.01699	-0.03556	109				
EMDE	LARUSSEL 161KV'	220.4622	0.01687	EMDE	ELK RIVER 345KV'	46	0.05058	-0.03371	114				
SWPA	TRUMAN 161KV'	83.20001	-0.01857	SWPA	OZARK 161KV'	74.4	0.01427	-0.03284	118				
SWPA	TRUMAN 161KV'	83.20001	-0.01857	SWPA	TABLE ROCK 161KV'	177.6	0.01332	-0.03189	121				
KACP	NORTHEAST 13KV'	56	-0.06329	KACP	MONTROSE 161KV'	363.0322	-0.03288	-0.03041	127				
KACP	NORTHEAST 13KV'	56	-0.06329	KACP	MONTROSE 161KV'	363.0322	-0.03288	-0.03041	127				
KACP	NORTHEAST 13KV'	58	-0.06329	KACP	MONTROSE 161KV'	363.0322	-0.03288	-0.03041	127				
KACP	NORTHEAST 161KV'	55	-0.06329	KACP	MONTROSE 161KV'	363.0322	-0.03288	-0.03041	127				
KACP	NORTHEAST 161KV'	58	-0.06329	KACP	MONTROSE 161KV'	363.0322	-0.03288	-0.03041	127				
KACP	NORTHEAST 161KV'	58	-0.06329	KACP	MONTROSE 161KV'	363.0322	-0.03288	-0.03041	127				
KACP	NORTHEAST 161KV'	58	-0.06329	KACP	MONTROSE 161KV'	363.0322	-0.03288	-0.03041	127				

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: 534225342815341453446114075P
 Date Redispatch Needed: 6/1/07 - 10/1/07
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount											
1086238	0.6	9.6											
1087745	9.0	9.6											
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	-0.00424	-0.35653	27				
AEPW	ARSENAL HILL 69KV'	75	-0.36077	AEPW	COMANCHE 138KV'	160	-0.00563	-0.35514	27				
AEPW	ARSENAL HILL 69KV'	75	-0.36077	AEPW	COMANCHE 69KV'	63	-0.00565	-0.35512	27				
AEPW	ARSENAL HILL 69KV'	75	-0.36077	AEPW	FITZHUGH 161KV'	126	-0.00242	-0.35835	27				
AEPW	ARSENAL HILL 69KV'	75	-0.36077	AEPW	FLINT CREEK 161KV'	420	-0.00352	-0.35725	27				
AEPW	ARSENAL HILL 69KV'	75	-0.36077	AEPW	KNOXLEE 138KV'	244.5797	-0.00927	-0.3515	27				
AEPW	ARSENAL HILL 69KV'	75	-0.36077	AEPW	NORTHEASTERN STATION 138KV'	95	-0.00392	-0.35685	27				
AEPW	ARSENAL HILL 69KV'	75	-0.36077	AEPW	NORTHEASTERN STATION 138KV'	405	-0.00392	-0.35685	27				
AEPW	ARSENAL HILL 69KV'	75	-0.36077	AEPW	NORTHEASTERN STATION 345KV'	645	-0.00391	-0.35686	27				
AEPW	ARSENAL HILL 69KV'	75	-0.36077	AEPW	OEC 345KV'	269	-0.00411	-0.35686	27				
AEPW	ARSENAL HILL 69KV'	75	-0.36077	AEPW	RIVERSIDE STATION 138KV'	646	-0.00425	-0.35652	27				
AEPW	ARSENAL HILL 69KV'	75	-0.36077	AEPW	SOUTHWESTERN STATION 138KV'	327	-0.00558	-0.35519	27				
AEPW	ARSENAL HILL 69KV'	75	-0.36077	AEPW	TULSA POWER STATION 138KV'	147	-0.00421	-0.35656	27				
AEPW	ARSENAL HILL 69KV'	75	-0.36077	AEPW	TULSA POWER STATION 138KV'	85	-0.00421	-0.35656	27				
AEPW	ARSENAL HILL 69KV'	75	-0.36077	AEPW	WELEETKA 138KV'	70	-0.00512	-0.35565	27				
AEPW	ARSENAL HILL 69KV'	75	-0.36077	AEPW	EASTMAN 138KV'	355	-0.01316	-0.34761	28				
AEPW	ARSENAL HILL 69KV'	75	-0.36077	AEPW	LEBROCK 345KV'	515	-0.01836	-0.34241	28				
AEPW	ARSENAL HILL 69KV'	75	-0.36077	AEPW	NARROWS 69KV'	22	-0.01322	-0.34755	28				

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

AEPW	'ARSENAL HILL 69KV'	75	-0.36077	AEPW	'WELSH 345KV'	990	-0.01278	-0.34799	28
AEPW	'ARSENAL HILL 69KV'	75	-0.36077	AEPW	'WILKES 345KV'	311	-0.01661	-0.34416	28
AEPW	'ARSENAL HILL 69KV'	75	-0.36077	AEPW	'PIRKEY GENERATION 138KV'	475	-0.02464	-0.33613	29
AEPW	'ARSENAL HILL 69KV'	75	-0.36077	AEPW	'WILKES 138KV'	346.9391	-0.0287	-0.33207	29
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'COGENTRIX 345KV'	200	-0.00424	-0.20772	46
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'COMANCHE 138KV'	160	-0.00563	-0.20633	46
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'COMANCHE 69KV'	63	-0.00565	-0.20631	46
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'FITZLUIGH 161KV'	126	-0.00242	-0.20954	46
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'FLINT CREEK 161KV'	420	-0.00352	-0.20844	46
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'NORTHEASTERN STATION 138KV'	405	-0.00392	-0.20804	46
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'NORTHEASTERN STATION 138KV'	95	-0.00392	-0.20804	46
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'NORTHEASTERN STATION 345KV'	645	-0.00391	-0.20805	46
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'OEC 345KV'	269	-0.00411	-0.20785	46
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'RIVERSIDE STATION 138KV'	646	-0.00425	-0.20771	46
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'SOUTHWESTERN STATION 138KV'	327	-0.00558	-0.20638	46
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'TULSA POWER STATION 138KV'	85	-0.00421	-0.20775	46
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'TULSA POWER STATION 138KV'	147	-0.00421	-0.20775	46
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'WEATHERFORD 34KV'	148	-0.00528	-0.20668	46
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'WEELETKA 138KV'	70	-0.00512	-0.20684	46
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'KNOXLEE 138KV'	244.5797	-0.00927	-0.20269	47
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'EASTMAN 138KV'	355	-0.01316	-0.1988	48
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'WELSH 345KV'	990	-0.01278	-0.19918	48
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'LEBROCK 345KV'	515	-0.01836	-0.1936	49
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'WILKES 345KV'	311	-0.01661	-0.19335	49
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'PIRKEY GENERATION 138KV'	475	-0.02464	-0.18732	51
AEPW	'LIEBERMAN 138KV'	137	-0.21196	AEPW	'WILKES 138KV'	346.9391	-0.0287	-0.18326	52
AEPW	'ARSENAL HILL 69KV'	75	-0.36077	AEPW	'LIEBERMAN 138KV'	91	-0.21196	-0.14881	64

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: MOORE COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1 Redispatch
 Limiting Facility: MOORE COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1
 Direction: From->To
 Line Outage: MOORE COUNTY INTERCHANGE W - RB-SNEE3 115KV CKT 1
 Flowgate: 50669506681506645069013407G
 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)
1090454		0.3										
1090487		0.2										
SPS	MOORE COUNTY 115KV'	48	-0.57471	SPS	'BLACKHAWK 115KV'	220	-0.02371	-0.551	1			
SPS	MOORE COUNTY 115KV'	48	-0.57471	SPS	'CAPROCK 115KV'	36	0.01595	-0.59066	1			
SPS	MOORE COUNTY 115KV'	48	-0.57471	SPS	'CUNNINGHAM 115KV'	110	0.01504	-0.58975	1			
SPS	MOORE COUNTY 115KV'	48	-0.57471	SPS	'CZ 69KV'	35	-0.01304	-0.56167	1			
SPS	MOORE COUNTY 115KV'	48	-0.57471	SPS	'HARRINGTON 230KV'	706	0.01179	-0.5865	1			
SPS	MOORE COUNTY 115KV'	48	-0.57471	SPS	'HUBRCO2 69KV'	5	-0.02071	-0.554	1			
SPS	MOORE COUNTY 115KV'	48	-0.57471	SPS	'JONES 230KV'	486	0.01294	-0.58765	1			
SPS	MOORE COUNTY 115KV'	48	-0.57471	SPS	'LP-BRND2 69KV'	80	0.01284	-0.58755	1			
SPS	MOORE COUNTY 115KV'	48	-0.57471	SPS	'MUSTG5 118.0 230KV'	210	0.01497	-0.58968	1			
SPS	MOORE COUNTY 115KV'	48	-0.57471	SPS	'NICHOLS 115KV'	82.41602	-0.02085	-0.55386	1			
SPS	MOORE COUNTY 115KV'	48	-0.57471	SPS	'PLANTX 115KV'	205	0.01552	-0.59023	1			
SPS	MOORE COUNTY 115KV'	48	-0.57471	SPS	'PLANTX 230KV'	189	0.01652	-0.59123	1			
SPS	MOORE COUNTY 115KV'	48	-0.57471	SPS	'SAN JUAN 230KV'	54	0.01577	-0.59048	1			
SPS	MOORE COUNTY 115KV'	48	-0.57471	SPS	'SIDRCH 69KV'	14	-0.02071	-0.554	1			
SPS	MOORE COUNTY 115KV'	48	-0.57471	SPS	'STEER WATER 115KV'	36	-0.01704	-0.55767	1			
SPS	MOORE COUNTY 115KV'	48	-0.57471	SPS	'TOLK 230KV'	1021.094	0.01601	-0.59072	1			
SPS	MOORE COUNTY 115KV'	48	-0.57471	SPS	'WILWIND 230KV'	72	0.02282	-0.59753	1			
WEPL	'CIMARRON RIVER 115KV'	72	-0.05572	WEPL	'A. M. MULLERGREEN GENERATOR 115KV'	25	-0.00453	-0.05119	10			
WEPL	'CIMARRON RIVER 115KV'	72	-0.05572	WEPL	'SPEARVILLE WIND 34KV'	100	-0.00674	-0.04898	10			
SPS	RIVERVIEW 69KV'	23	-0.02139	SPS	'WILWIND 230KV'	72	0.02282	-0.04421	11			
SPS	HUBRCO2 69KV'	6	-0.02071	SPS	'WILWIND 230KV'	72	0.02282	-0.04353	12			
SPS	'NICHOLS 115KV'	130.584	-0.02085	SPS	'WILWIND 230KV'	72	0.02282	-0.04367	12			
SPS	'SIDRCH 69KV'	6	-0.02071	SPS	'WILWIND 230KV'	72	0.02282	-0.04353	12			
SPS	RIVERVIEW 69KV'	23	-0.02139	SPS	'PLANTX 230KV'	189	0.01652	-0.03791	13			
WEPL	'CIMARRON RIVER 115KV'	72	-0.05572	WEPL	'GRAY COUNTY WIND FARM 115KV'	36	-0.01832	-0.0374	14			
WEPL	'CIMARRON RIVER 115KV'	72	-0.05572	WEPL	'JUDSON LARGE 115KV'	81.03156	-0.0185	-0.03722	14			
SPS	HUBRCO2 69KV'	6	-0.02071	SPS	'CAPROCK 115KV'	36	0.01595	-0.03666	14			
SPS	HUBRCO2 69KV'	6	-0.02071	SPS	'CUNNINGHAM 115KV'	110	0.01504	-0.03575	14			
SPS	HUBRCO2 69KV'	6	-0.02071	SPS	'MUSTANG 115KV'	300	0.01485	-0.03556	14			
SPS	HUBRCO2 69KV'	6	-0.02071	SPS	'MUSTG5 118.0 230KV'	210	0.01497	-0.03568	14			
SPS	HUBRCO2 69KV'	6	-0.02071	SPS	'PLANTX 115KV'	205	0.01552	-0.03623	14			
SPS	HUBRCO2 69KV'	6	-0.02071	SPS	'PLANTX 230KV'	189	0.01652	-0.03723	14			
SPS	HUBRCO2 69KV'	6	-0.02071	SPS	'SAN JUAN 230KV'	54	0.01577	-0.03648	14			
SPS	HUBRCO2 69KV'	6	-0.02071	SPS	'TOLK 230KV'	1021.094	0.01601	-0.03672	14			
SPS	'NICHOLS 115KV'	130.584	-0.02085	SPS	'CAPROCK 115KV'	36	0.01595	-0.0368	14			
SPS	'NICHOLS 115KV'	130.584	-0.02085	SPS	'CUNNINGHAM 230KV'	306	0.01508	-0.03593	14			
SPS	'NICHOLS 115KV'	130.584	-0.02085	SPS	'MADDOX 115KV'	118	0.01503	-0.03588	14			
SPS	'NICHOLS 115KV'	130.584	-0.02085	SPS	'MUSTG5 118.0 230KV'	210	0.01497	-0.03582	14			
SPS	'NICHOLS 115KV'	130.584	-0.02085	SPS	'PLANTX 115KV'	205	0.01552	-0.03637	14			
SPS	'NICHOLS 115KV'	130.584	-0.02085	SPS	'PLANTX 230KV'	189	0.01652	-0.03737	14			
SPS	'NICHOLS 115KV'	130.584	-0.02085	SPS	'SAN JUAN 230KV'	54	0.01577	-0.03662	14			
SPS	'NICHOLS 115KV'	130.584	-0.02085	SPS	'TOLK 230KV'	1021.094	0.01601	-0.03686	14			
SPS	RIVERVIEW 69KV'	23	-0.02139	SPS	'CAPROCK 115KV'	36	0.01595	-0.03734	14			
SPS	RIVERVIEW 69KV'	23	-0.02139	SPS	'CUNNINGHAM 230KV'	306	0.01508	-0.03647	14			
SPS	RIVERVIEW 69KV'	23	-0.02139	SPS	'MUSTG5 118.0 230KV'	210	0.01497	-0.03636	14			
SPS	RIVERVIEW 69KV'	23	-0.02139	SPS	'PLANTX 115KV'	205	0.01552	-0.03691	14			
SPS	RIVERVIEW 69KV'	23	-0.02139	SPS	'SAN JUAN 230KV'	54	0.01577	-0.03716	14			
SPS	RIVERVIEW 69KV'	23	-0.02139	SPS	'TOLK 230KV'	1021.094	0.01601	-0.0374	14			
SPS	'SIDRCH 69KV'	6	-0.02071	SPS	'CAPROCK 115KV'	36	0.01595	-0.03666	14			
SPS	'SIDRCH 69KV'	6	-0.02071	SPS	'CUNNINGHAM 115KV'	110	0.01504	-0.03575	14			
SPS	'SIDRCH 69KV'	6	-0.02071	SPS	'MUSTANG 115KV'	300	0.01485	-0.03556	14			
SPS	'SIDRCH 69KV'	6	-0.02071	SPS	'MUSTG5 118.0 230KV'	210	0.01497	-0.03568	14			
SPS	'SIDRCH 69KV'	6	-0.02071	SPS	'PLANTX 115KV'	205	0.01552	-0.03623	14			
SPS	'SIDRCH 69KV'	6	-0.02071	SPS	'PLANTX 230KV'	189	0.01652	-0.03723	14			
SPS	'SIDRCH 69KV'	6	-0.02071	SPS	'SAN JUAN 230KV'	54	0.01577	-0.03648	14			
SPS	'SIDRCH 69KV'	6	-0.02071	SPS	'TOLK 230KV'	1021.094	0.01601	-0.03672	14			
SPS	HUBRCO2 69KV'	6	-0.02071	SPS	'JONES 230KV'	486	0.01294	-0.03365	15			
SPS	HUBRCO2 69KV'	6	-0.02071	SPS	'LP-BRND2 69KV'	80	0.01284	-0.03355	15			
SPS	'NICHOLS 115KV'	130.584	-0.02085	SPS	'JONES 230KV'	486	0.01294	-0.03379	15			
SPS	'NICHOLS 115KV'	130.584	-0.02085	SPS	'LP-BRND2 69KV'	80	0.01284	-0.03369	15			
SPS	RIVERVIEW 69KV'	23	-0.02139	SPS	'HARRINGTON 230KV'	706	0.01179	-0.03318	15			
SPS	RIVERVIEW 69KV'	23	-0.02139	SPS	'JONES 230KV'	486	0.01294	-0.03433	15			
SPS	RIVERVIEW 69KV'	23	-0.02139	SPS	'LP-BRND2 69KV'	80	0.01284	-0.03423	15			
SPS	'SIDRCH 69KV'	6	-0.02071	SPS	'JONES 230KV'	486	0.01294	-0.03365	15			
SPS	'SIDRCH 69KV'	6	-0.02071	SPS	'LP-BRND2 69KV'	80	0.01284	-0.03355	15			
SUNC	'CITY OF HUGOTON 69KV'	17.07	-0.04049	SUNC	'GARDEN CITY 115KV'	12.50912	-0.00913	-0.03136	16			
SUNC	'CITY OF HUGOTON 69KV'	17.07	-0.04049	SUNC	'HOLCOMB 115KV'	266.4294	-0.00959	-0.0309	16			
SPS	HUBRCO2 69KV'	6	-0.02071	SPS	'HARRINGTON 230KV'	706	0.01179	-0.0325	16			
SPS	'NICHOLS 115KV'	130.584	-0.02085	SPS	'HARRINGTON 230KV'	706	0.01179	-0.03264	16			

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

SPS	'SIDRCH 69KV'	6	-0.02071	SPS	'HARRINGTON 230KV'	706	0.01179	-0.0325	16
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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: MOORE COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1 Redispatch
 Limiting Facility: MOORE COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1
 Direction: From->To
 Line Outage: FAIN - NICHOLS STATION 115KV CKT 1
 Flowgate: 50669506681506785091414107G
 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)
1090454	0.5	0.8	SPS	'MOORE COUNTY 115KV'	48	-0.52826	SPS	'CAPROCK 115KV'	79.98182	0.01778	-0.54604	1
1090487	0.2	0.8	SPS	'MOORE COUNTY 115KV'	48	-0.52826	SPS	'CUNNINGHAM 115KV'	110	0.01669	-0.54495	1
			SPS	'MOORE COUNTY 115KV'	48	-0.52826	SPS	'HARRINGTON 230KV'	706	0.01054	-0.5388	1
			SPS	'MOORE COUNTY 115KV'	48	-0.52826	SPS	'JONES 230KV'	486	0.01445	-0.54271	1
			SPS	'MOORE COUNTY 115KV'	48	-0.52826	SPS	'LP-BRND2 69KV'	80	0.01433	-0.54259	1
			SPS	'MOORE COUNTY 115KV'	48	-0.52826	SPS	'MUSTANG 115KV'	300	0.01649	-0.54475	1
			SPS	'MOORE COUNTY 115KV'	48	-0.52826	SPS	'MUSTG5 118.0 230KV'	210	0.01661	-0.54487	1
			SPS	'MOORE COUNTY 115KV'	48	-0.52826	SPS	'NICHOLS 115KV'	106	-0.00586	-0.5224	1
			SPS	'MOORE COUNTY 115KV'	48	-0.52826	SPS	'NICHOLS 230KV'	147	0.00927	-0.53753	1
			SPS	'MOORE COUNTY 115KV'	48	-0.52826	SPS	'PLANTX 115KV'	205	0.01731	-0.54557	1
			SPS	'MOORE COUNTY 115KV'	48	-0.52826	SPS	'PLANTX 230KV'	189	0.01826	-0.54652	1
			SPS	'MOORE COUNTY 115KV'	48	-0.52826	SPS	'SAN JUAN 230KV'	119.9727	0.01751	-0.54577	1
			SPS	'MOORE COUNTY 115KV'	48	-0.52826	SPS	'STEER WATER 115KV'	79.98182	-0.01706	-0.5112	1
			SPS	'MOORE COUNTY 115KV'	48	-0.52826	SPS	'TOLK 230KV'	1021.912	0.01773	-0.54599	1
			SPS	'MOORE COUNTY 115KV'	48	-0.52826	SPS	'WILWIND 230KV'	159.9636	0.02494	-0.5532	1
			SPS	'MOORE COUNTY 115KV'	48	-0.52826	SPS	'BLACKHAWK 115KV'	220	-0.08276	-0.4455	2
			SPS	'MOORE COUNTY 115KV'	48	-0.52826	SPS	'CZ 69KV'	35	-0.02882	-0.49944	2
			SPS	'MOORE COUNTY 115KV'	48	-0.52826	SPS	'HUBRCO2 69KV'	5	-0.08652	-0.44174	2
			SPS	'MOORE COUNTY 115KV'	48	-0.52826	SPS	'SIDRCH 69KV'	14	-0.08652	-0.44174	2
			SPS	'HUBRCO2 69KV'	6	-0.08652	SPS	'CAPROCK 115KV'	79.98182	0.01778	-0.1043	7
			SPS	'HUBRCO2 69KV'	6	-0.08652	SPS	'CUNNINGHAM 230KV'	306	0.01674	-0.10326	7
			SPS	'HUBRCO2 69KV'	6	-0.08652	SPS	'JONES 230KV'	486	0.01445	-0.10097	7
			SPS	'HUBRCO2 69KV'	6	-0.08652	SPS	'LP-BRND2 69KV'	80	0.01433	-0.10085	7
			SPS	'HUBRCO2 69KV'	6	-0.08652	SPS	'MADOX 115KV'	139.0698	0.01668	-0.10332	7
			SPS	'HUBRCO2 69KV'	6	-0.08652	SPS	'MUSTANG 115KV'	300	0.01649	-0.10301	7
			SPS	'HUBRCO2 69KV'	6	-0.08652	SPS	'MUSTG5 118.0 230KV'	210	0.01661	-0.10313	7
			SPS	'HUBRCO2 69KV'	6	-0.08652	SPS	'PLANTX 115KV'	205	0.01731	-0.10383	7
			SPS	'HUBRCO2 69KV'	6	-0.08652	SPS	'PLANTX 230KV'	189	0.01826	-0.10478	7
			SPS	'HUBRCO2 69KV'	6	-0.08652	SPS	'SAN JUAN 230KV'	119.9727	0.01751	-0.10403	7
			SPS	'HUBRCO2 69KV'	6	-0.08652	SPS	'TOLK 230KV'	1021.912	0.01773	-0.10425	7
			SPS	'HUBRCO2 69KV'	6	-0.08652	SPS	'WILWIND 230KV'	159.9636	0.02494	-0.11146	7
			SPS	'RIVERVIEW 69KV'	23	-0.08936	SPS	'CAPROCK 115KV'	79.98182	0.01778	-0.10714	7
			SPS	'RIVERVIEW 69KV'	23	-0.08936	SPS	'CUNNINGHAM 115KV'	71	0.01669	-0.10605	7
			SPS	'RIVERVIEW 69KV'	23	-0.08936	SPS	'CUNNINGHAM 230KV'	306	0.01674	-0.1061	7
			SPS	'RIVERVIEW 69KV'	23	-0.08936	SPS	'JONES 230KV'	486	0.01445	-0.10381	7
			SPS	'RIVERVIEW 69KV'	23	-0.08936	SPS	'LP-BRND2 69KV'	80	0.01433	-0.10369	7
			SPS	'RIVERVIEW 69KV'	23	-0.08936	SPS	'MUSTG5 118.0 230KV'	210	0.01661	-0.10597	7
			SPS	'RIVERVIEW 69KV'	23	-0.08936	SPS	'PLANTX 115KV'	205	0.01731	-0.10667	7
			SPS	'RIVERVIEW 69KV'	23	-0.08936	SPS	'PLANTX 230KV'	189	0.01826	-0.10762	7
			SPS	'RIVERVIEW 69KV'	23	-0.08936	SPS	'SAN JUAN 230KV'	119.9727	0.01751	-0.10687	7
			SPS	'RIVERVIEW 69KV'	23	-0.08936	SPS	'TOLK 230KV'	1021.912	0.01773	-0.10709	7
			SPS	'RIVERVIEW 69KV'	23	-0.08936	SPS	'WILWIND 230KV'	159.9636	0.02494	-0.1143	7
			SPS	'SIDRCH 69KV'	6	-0.08652	SPS	'CAPROCK 115KV'	79.98182	0.01778	-0.1043	7
			SPS	'SIDRCH 69KV'	6	-0.08652	SPS	'CUNNINGHAM 230KV'	306	0.01674	-0.10326	7
			SPS	'SIDRCH 69KV'	6	-0.08652	SPS	'JONES 230KV'	486	0.01445	-0.10097	7
			SPS	'SIDRCH 69KV'	6	-0.08652	SPS	'LP-BRND2 69KV'	80	0.01433	-0.10085	7
			SPS	'SIDRCH 69KV'	6	-0.08652	SPS	'MADOX 115KV'	139.0698	0.01668	-0.10332	7
			SPS	'SIDRCH 69KV'	6	-0.08652	SPS	'MUSTG5 118.0 230KV'	210	0.01661	-0.10313	7
			SPS	'SIDRCH 69KV'	6	-0.08652	SPS	'PLANTX 115KV'	205	0.01731	-0.10383	7
			SPS	'SIDRCH 69KV'	6	-0.08652	SPS	'PLANTX 230KV'	189	0.01826	-0.10478	7
			SPS	'SIDRCH 69KV'	6	-0.08652	SPS	'SAN JUAN 230KV'	119.9727	0.01751	-0.10403	7
			SPS	'SIDRCH 69KV'	6	-0.08652	SPS	'TOLK 230KV'	1021.912	0.01773	-0.10425	7
			SPS	'SIDRCH 69KV'	6	-0.08652	SPS	'WILWIND 230KV'	159.9636	0.02494	-0.11146	7
			SPS	'HUBRCO2 69KV'	6	-0.08652	SPS	'HARRINGTON 230KV'	706	0.01054	-0.09706	8
			SPS	'HUBRCO2 69KV'	6	-0.08652	SPS	'NICHOLS 230KV'	147	0.00927	-0.09579	8
			SPS	'RIVERVIEW 69KV'	23	-0.08936	SPS	'HARRINGTON 230KV'	706	0.01054	-0.0999	8
			SPS	'RIVERVIEW 69KV'	23	-0.08936	SPS	'NICHOLS 230KV'	147	0.00927	-0.09863	8
			SPS	'SIDRCH 69KV'	6	-0.08652	SPS	'HARRINGTON 230KV'	706	0.01054	-0.09706	8
			SPS	'SIDRCH 69KV'	6	-0.08652	SPS	'NICHOLS 230KV'	147	0.00927	-0.09579	8
			SPS	'HUBRCO2 69KV'	6	-0.08652	SPS	'NICHOLS 115KV'	106	-0.00586	-0.08066	9
			SPS	'RIVERVIEW 69KV'	23	-0.08936	SPS	'NICHOLS 115KV'	106	-0.00586	-0.0835	9
			SPS	'SIDRCH 69KV'	6	-0.08652	SPS	'NICHOLS 115KV'	106	-0.00586	-0.08066	9
			SPS	'RIVERVIEW 69KV'	23	-0.08936	SPS	'STEER WATER 115KV'	79.98182	-0.01706	-0.0723	10
			SPS	'HUBRCO2 69KV'	6	-0.08652	SPS	'STEER WATER 115KV'	79.98182	-0.01706	-0.06946	11
			SPS	'SIDRCH 69KV'	6	-0.08652	SPS	'STEER WATER 115KV'	79.98182	-0.01706	-0.06946	11
			SPS	'RIVERVIEW 69KV'	23	-0.08936	SPS	'CZ 69KV'	35	-0.02882	-0.06054	12
			SPS	'HUBRCO2 69KV'	6	-0.08652	SPS	'CZ 69KV'	35	-0.02882	-0.0577	13
			SPS	'SIDRCH 69KV'	6	-0.08652	SPS	'CZ 69KV'	35	-0.02882	-0.0577	13
			WEPL	'CIMARRON RIVER 115KV'	72	-0.05927	WEPL	'A. M. MULLERGEN GENERATOR 115KV'	43.28708	-0.0049	-0.05437	14
			WEPL	'CIMARRON RIVER 115KV'	72	-0.05927	WEPL	'GRAY COUNTY WIND FARM 115KV'	63	-0.01957	-0.0397	19
			WEPL	'CIMARRON RIVER 115KV'	72	-0.05927	WEPL	'JUDSON LARGE 115KV'	83.63704	-0.01976	-0.03951	19
			SUNC	'CITY OF HUGOTON 69KV'	17.07	-0.04312	SUNC	'GARDEN CITY 115KV'	12.50912	-0.00985	-0.03327	23
			SUNC	'CITY OF HUGOTON 69KV'	17.07	-0.04312	SUNC	'HOLCOMB 115KV'	265.6551	-0.01033	-0.03279	23
			SPS	'NICHOLS 115KV'	107	-0.00586	SPS	'WILWIND 230KV'	159.9636	0.02494	-0.0308	25

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: MOORE COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1 Redispatch
 Limiting Facility: MOORE COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1
 Direction: From->To
 Line Outage: HERRNT3 - RB-SNEE3 115KV CKT 1
 Flowgate: 50669506681506865069011307G
 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)
1090454	0.3	0.5	SPS	'MOORE COUNTY 115KV'	48	-0.57471	SPS	'BLACKHAWK 115KV'	220	-0.02371	-0.551	1
1090487	0.2	0.5	SPS	'MOORE COUNTY 115KV'	48	-0.57471	SPS	'CAPROCK 115KV'	79.98182	0.01595	-0.59066	1
			SPS	'MOORE COUNTY 115KV'	48	-0.57471	SPS	'CUNNINGHAM 115KV'	71	0.01504	-0.58975	1

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

SPS	'MOORE COUNTY 115KV'	48	-0.57471	SPS	'CUNNINGHAM 230KV'	306	0.01508	-0.58979	1
SPS	'MOORE COUNTY 115KV'	48	-0.57471	SPS	'CZ 69KV'	35	-0.01304	-0.56167	1
SPS	'MOORE COUNTY 115KV'	48	-0.57471	SPS	'HARRINGTON 230KV'	706	0.01179	-0.5865	1
SPS	'MOORE COUNTY 115KV'	48	-0.57471	SPS	'HUBRCO2 69KV'	5	-0.02071	-0.554	1
SPS	'MOORE COUNTY 115KV'	48	-0.57471	SPS	'JONES 230KV'	486	0.01294	-0.58765	1
SPS	'MOORE COUNTY 115KV'	48	-0.57471	SPS	'LP-BRND2 69KV'	102.8638	0.01284	-0.58755	1
SPS	'MOORE COUNTY 115KV'	48	-0.57471	SPS	'MADOX 115KV'	183	0.01503	-0.58974	1
SPS	'MOORE COUNTY 115KV'	48	-0.57471	SPS	'MUSTG5 118.0 230KV'	210	0.01497	-0.58568	1
SPS	'MOORE COUNTY 115KV'	48	-0.57471	SPS	'NICHOLS 115KV'	106	-0.02085	-0.55386	1
SPS	'MOORE COUNTY 115KV'	48	-0.57471	SPS	'NICHOLS 230KV'	147	0.0107	-0.58641	1
SPS	'MOORE COUNTY 115KV'	48	-0.57471	SPS	'PLANTX 115KV'	253	0.01552	-0.59023	1
SPS	'MOORE COUNTY 115KV'	48	-0.57471	SPS	'PLANTX 230KV'	189	0.01652	-0.59123	1
SPS	'MOORE COUNTY 115KV'	48	-0.57471	SPS	'SAN JUAN 230KV'	119.9727	0.01577	-0.59048	1
SPS	'MOORE COUNTY 115KV'	48	-0.57471	SPS	'SIDRCH 69KV'	14	-0.02071	-0.554	1
SPS	'MOORE COUNTY 115KV'	48	-0.57471	SPS	'STEER WATER 115KV'	79.98182	-0.01704	-0.55767	1
SPS	'MOORE COUNTY 115KV'	48	-0.57471	SPS	'TOLK 230KV'	1025.082	0.01601	-0.59072	1
SPS	'MOORE COUNTY 115KV'	48	-0.57471	SPS	'WILWIND 230KV'	159.9636	0.02282	-0.59753	1
WEPL	'CIMARRON RIVER 115KV'	72	-0.05572	WEPL	'A. M. MULLEREGREN GENERATOR 115KV'	25	-0.00453	-0.05119	11
WEPL	'CIMARRON RIVER 115KV'	72	-0.05572	WEPL	'SPEARVILLE WIND 34KV'	100	-0.00674	-0.04898	11
SPS	'HUBRCO2 69KV'	6	-0.02071	SPS	'WILWIND 230KV'	159.9636	0.02282	-0.04353	12
SPS	'NICHOLS 115KV'	107	-0.02085	SPS	'WILWIND 230KV'	159.9636	0.02282	-0.04367	12
SPS	'RIVERVIEW 69KV'	23	-0.02139	SPS	'WILWIND 230KV'	159.9636	0.02282	-0.04421	12
SPS	'SIDRCH 69KV'	6	-0.02071	SPS	'WILWIND 230KV'	159.9636	0.02282	-0.04353	12
WEPL	'CIMARRON RIVER 115KV'	72	-0.05572	WEPL	'GRAY COUNTY WIND FARM 115KV'	100	-0.01832	-0.0374	14
WEPL	'CIMARRON RIVER 115KV'	72	-0.05572	WEPL	'JUDSON LARGE 115KV'	68.28961	-0.0185	-0.03722	14
SPS	'HUBRCO2 69KV'	6	-0.02071	SPS	'PLANTX 230KV'	189	0.01652	-0.03723	14
SPS	'NICHOLS 115KV'	107	-0.02085	SPS	'PLANTX 230KV'	189	0.01652	-0.03737	14
SPS	'RIVERVIEW 69KV'	23	-0.02139	SPS	'CAPROCK 115KV'	79.98182	0.01595	-0.03734	14
SPS	'RIVERVIEW 69KV'	23	-0.02139	SPS	'PLANTX 230KV'	189	0.01652	-0.03791	14
SPS	'RIVERVIEW 69KV'	23	-0.02139	SPS	'SAN JUAN 230KV'	119.9727	0.01577	-0.03716	14
SPS	'RIVERVIEW 69KV'	23	-0.02139	SPS	'TOLK 230KV'	1025.082	0.01601	-0.0374	14
SPS	'SIDRCH 69KV'	6	-0.02071	SPS	'PLANTX 230KV'	189	0.01652	-0.03723	14
SPS	'HUBRCO2 69KV'	6	-0.02071	SPS	'CAPROCK 115KV'	79.98182	0.01595	-0.03666	15
SPS	'HUBRCO2 69KV'	6	-0.02071	SPS	'CUNNINGHAM 115KV'	71	0.01504	-0.03575	15
SPS	'HUBRCO2 69KV'	6	-0.02071	SPS	'MUSTANG 115KV'	300	0.01485	-0.03556	15
SPS	'HUBRCO2 69KV'	6	-0.02071	SPS	'MUSTG5 118.0 230KV'	210	0.01497	-0.03568	15
SPS	'HUBRCO2 69KV'	6	-0.02071	SPS	'PLANTX 115KV'	253	0.01552	-0.03623	15
SPS	'HUBRCO2 69KV'	6	-0.02071	SPS	'SAN JUAN 230KV'	119.9727	0.01577	-0.03648	15
SPS	'HUBRCO2 69KV'	6	-0.02071	SPS	'TOLK 230KV'	1025.082	0.01601	-0.03672	15
SPS	'NICHOLS 115KV'	107	-0.02085	SPS	'CAPROCK 115KV'	79.98182	0.01595	-0.0368	15
SPS	'NICHOLS 115KV'	107	-0.02085	SPS	'CUNNINGHAM 115KV'	110	0.01504	-0.03589	15
SPS	'NICHOLS 115KV'	107	-0.02085	SPS	'MUSTANG 115KV'	300	0.01485	-0.0357	15
SPS	'NICHOLS 115KV'	107	-0.02085	SPS	'MUSTG5 118.0 230KV'	210	0.01497	-0.03582	15
SPS	'NICHOLS 115KV'	107	-0.02085	SPS	'PLANTX 115KV'	253	0.01552	-0.03637	15
SPS	'NICHOLS 115KV'	107	-0.02085	SPS	'SAN JUAN 230KV'	119.9727	0.01577	-0.03662	15
SPS	'NICHOLS 115KV'	107	-0.02085	SPS	'TOLK 230KV'	1025.082	0.01601	-0.03686	15
SPS	'RIVERVIEW 69KV'	23	-0.02139	SPS	'CUNNINGHAM 115KV'	110	0.01504	-0.03643	15
SPS	'RIVERVIEW 69KV'	23	-0.02139	SPS	'CUNNINGHAM 230KV'	306	0.01508	-0.03647	15
SPS	'RIVERVIEW 69KV'	23	-0.02139	SPS	'MUSTG5 118.0 230KV'	210	0.01497	-0.03636	15
SPS	'RIVERVIEW 69KV'	23	-0.02139	SPS	'PLANTX 115KV'	253	0.01552	-0.03691	15
SPS	'SIDRCH 69KV'	6	-0.02071	SPS	'CAPROCK 115KV'	79.98182	0.01595	-0.03666	15
SPS	'SIDRCH 69KV'	6	-0.02071	SPS	'CUNNINGHAM 230KV'	306	0.01508	-0.03579	15
SPS	'SIDRCH 69KV'	6	-0.02071	SPS	'MUSTG5 118.0 230KV'	210	0.01497	-0.03568	15
SPS	'SIDRCH 69KV'	6	-0.02071	SPS	'PLANTX 115KV'	253	0.01552	-0.03623	15
SPS	'SIDRCH 69KV'	6	-0.02071	SPS	'SAN JUAN 230KV'	119.9727	0.01577	-0.03648	15
SPS	'SIDRCH 69KV'	6	-0.02071	SPS	'TOLK 230KV'	1025.082	0.01601	-0.03672	15
SPS	'HUBRCO2 69KV'	6	-0.02071	SPS	'JONES 230KV'	486	0.01294	-0.03365	16
SPS	'HUBRCO2 69KV'	6	-0.02071	SPS	'LP-BRND2 69KV'	102.8638	0.01284	-0.03355	16
SPS	'NICHOLS 115KV'	107	-0.02085	SPS	'JONES 230KV'	486	0.01294	-0.03379	16
SPS	'NICHOLS 115KV'	107	-0.02085	SPS	'LP-BRND2 69KV'	102.8638	0.01284	-0.03369	16
SPS	'RIVERVIEW 69KV'	23	-0.02139	SPS	'HARRINGTON 230KV'	706	0.01179	-0.03318	16
SPS	'RIVERVIEW 69KV'	23	-0.02139	SPS	'JONES 230KV'	486	0.01294	-0.03433	16
SPS	'RIVERVIEW 69KV'	23	-0.02139	SPS	'LP-BRND2 69KV'	102.8638	0.01284	-0.03423	16
SPS	'SIDRCH 69KV'	6	-0.02071	SPS	'JONES 230KV'	486	0.01294	-0.03365	16
SPS	'SIDRCH 69KV'	6	-0.02071	SPS	'LP-BRND2 69KV'	102.8638	0.01284	-0.03355	16
SUNC	'CITY OF HUGOTON 69KV'	17.07	-0.04049	SUNC	'GARDEN CITY 115KV'	11.95175	-0.00913	-0.03136	17
SUNC	'CITY OF HUGOTON 69KV'	17.07	-0.04049	SUNC	'HOLCOMB 115KV'	267.1249	-0.00959	-0.0309	17
SPS	'HUBRCO2 69KV'	6	-0.02071	SPS	'HARRINGTON 230KV'	706	0.01179	-0.0325	17
SPS	'HUBRCO2 69KV'	6	-0.02071	SPS	'NICHOLS 230KV'	147	0.0107	-0.03141	17
SPS	'NICHOLS 115KV'	107	-0.02085	SPS	'HARRINGTON 230KV'	706	0.01179	-0.03264	17
SPS	'NICHOLS 115KV'	107	-0.02085	SPS	'NICHOLS 230KV'	147	0.0107	-0.03155	17
SPS	'RIVERVIEW 69KV'	23	-0.02139	SPS	'NICHOLS 230KV'	147	0.0107	-0.03209	17
SPS	'SIDRCH 69KV'	6	-0.02071	SPS	'HARRINGTON 230KV'	706	0.01179	-0.0325	17
SPS	'SIDRCH 69KV'	6	-0.02071	SPS	'NICHOLS 230KV'	147	0.0107	-0.03141	17

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

Upgrade: MUSTANG STATION 230/115KV TRANSFORMER CKT 1
 Limiting Facility: MUSTANG STATION 230/115KV TRANSFORMER CKT 1
 Direction: From->To
 Line Outage: CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1
 Flowgate: 51966519691516475153313307SP
 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	0.2	0.2	SPS	'CARLSBAD 69KV'	18	-0.04861	SPS	'MUSTG5 118.0 230KV'	360	0.20869	-0.2553	1
			SPS	'LP-BRND2 69KV'	108	-0.01413	SPS	'MUSTG5 118.0 230KV'	360	0.20869	-0.22282	1
			SPS	'MADOX 115KV'	10	-0.12111	SPS	'MUSTG5 118.0 230KV'	360	0.20869	-0.3298	1
			SPS	'NICHOLS 230KV'	29.36429	0.00291	SPS	'MUSTG5 118.0 230KV'	360	0.20869	-0.20578	1
			SPS	'RIVERVIEW 69KV'	23	0.00286	SPS	'MUSTG5 118.0 230KV'	360	0.20869	-0.20583	1
			SPS	'TOLK 230KV'	43.81552	0.01026	SPS	'MUSTG5 118.0 230KV'	360	0.20869	-0.19843	1
			SPS	'TUCUMCARI 115KV'	15	0.00529	SPS	'MUSTG5 118.0 230KV'	360	0.20869	-0.2034	1
			SPS	'MADOX 115KV'	10	-0.12111	SPS	'BLACKHAWK 115KV'	220	0.00285	-0.12396	2
			SPS	'MADOX 115KV'	10	-0.12111	SPS	'CAPROCK 115KV'	79.99996	0.00529	-0.1264	2
			SPS	'MADOX 115KV'	10	-0.12111	SPS	'CZ 69KV'	39	0.00262	-0.12373	2
			SPS	'MADOX 115KV'	10	-0.12111	SPS	'HARRINGTON 230KV'	1066	0.00294	-0.12405	2
			SPS	'MADOX 115KV'	10	-0.12111	SPS	'HUBRCO2 69KV'	11	0.00286	-0.12397	2
			SPS	'MADOX 115KV'	10	-0.12111	SPS	'JONES 230KV'	486	-0.01025	-0.11086	2
			SPS	'MADOX 115KV'	10	-0.12111	SPS	'LP-BRND2 69KV'	124	-0.01413	-0.10698	2
			SPS	'MADOX 115KV'	10	-0.12111	SPS	'NICHOLS 115KV'	213	0.00282	-0.12393	2
			SPS	'MADOX 115KV'	10	-0.12111	SPS	'NICHOLS 230KV'	214.6357	0.00291	-0.12402	2
			SPS	'MADOX 115KV'	10	-0.12111	SPS	'PLANTX 115KV'	253	0.00416	-0.12527	2
			SPS	'MADOX 115KV'	10	-0.12111	SPS	'PLANTX 230KV'	189	0.00944	-0.13055	2
			SPS	'MADOX 115KV'	10	-0.12111	SPS	'SAN JUAN 230KV'	119.9999	-0.00513	-0.11598	2
			SPS	'MADOX 115KV'	10	-0.12111	SPS	'SIDRCH 69KV'	20	0.00286	-0.12397	2
			SPS	'MADOX 115KV'	10	-0.12111	SPS	'STEER WATER 115KV'	79.99996	0.00272	-0.12383	2
			SPS	'MADOX 115KV'	10	-0.12111	SPS	'TOLK 230KV'	1036.184	0.01026	-0.13137	2
			SPS	'MADOX 115KV'	10	-0.12111	SPS	'WILWIND 230KV'	159.9999	0.00414	-0.12525	2

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

SPS	MADDOX 115KV	10	-0.12111	SPS	CUNNINGHAM 230KV	306	-0.03835	-0.08276	3
SPS	CARLSBAD 69KV	18	-0.04661	SPS	PLANTX 230KV	189	0.00944	-0.05605	4
SPS	CARLSBAD 69KV	18	-0.04661	SPS	TOLK 230KV	1036.184	0.01026	-0.05687	4
SPS	CARLSBAD 69KV	18	-0.04661	SPS	BLACKHAWK 115KV	220	0.00285	-0.04946	5
SPS	CARLSBAD 69KV	18	-0.04661	SPS	CAPROCK 115KV	79.99996	0.00529	-0.0519	5
SPS	CARLSBAD 69KV	18	-0.04661	SPS	CZ 69KV	39	0.00262	-0.04923	5
SPS	CARLSBAD 69KV	18	-0.04661	SPS	HARRINGTON 230KV	1066	0.00294	-0.04955	5
SPS	CARLSBAD 69KV	18	-0.04661	SPS	HUBRCO2 69KV	11	0.00386	-0.04947	5
SPS	CARLSBAD 69KV	18	-0.04661	SPS	MOORE COUNTY 115KV	48	0.00301	-0.04962	5
SPS	CARLSBAD 69KV	18	-0.04661	SPS	NICHOLS 115KV	213	0.00282	-0.04943	5
SPS	CARLSBAD 69KV	18	-0.04661	SPS	NICHOLS 230KV	214.6357	0.00291	-0.04952	5
SPS	CARLSBAD 69KV	18	-0.04661	SPS	PLANTX 115KV	253	0.00416	-0.05077	5
SPS	CARLSBAD 69KV	18	-0.04661	SPS	SIDRCH 69KV	20	0.00286	-0.04947	5
SPS	CARLSBAD 69KV	18	-0.04661	SPS	STEER WATER 115KV	79.99996	0.00272	-0.04933	5
SPS	CARLSBAD 69KV	18	-0.04661	SPS	WILWIND 230KV	159.9999	0.00414	-0.05075	5
SPS	CARLSBAD 69KV	18	-0.04661	SPS	SAN JUAN 230KV	119.9999	-0.00513	-0.04148	6
SPS	CARLSBAD 69KV	18	-0.04661	SPS	JONES 230KV	486	-0.01025	-0.03636	7
SPS	CARLSBAD 69KV	18	-0.04661	SPS	LP-BRND2 69KV	124	-0.01413	-0.03248	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: MUSTANG STATION 230/115KV TRANSFORMER CKT 1
 Limiting Facility: MUSTANG STATION 230/115KV TRANSFORMER CKT 1
 Direction: From->To
 Line Outage: PACIFIC - SUNDOWN INTERCHANGE 115KV CKT 1
 Flowgate: 51966519691517305173214307SP
 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	0.2	0.2								
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	-0.04775	SPS	MUSTG5 118.0 230KV	360	0.20622	-0.25397	1	
SPS	LP-BRND2 69KV	33.00781	-0.00851	SPS	MUSTG5 118.0 230KV	360	0.20622	-0.21473	1	
SPS	MADDOX 115KV	10	-0.12327	SPS	MUSTG5 118.0 230KV	360	0.20622	-0.32949	1	
SPS	RIVERVIEW 69KV	23	0.00336	SPS	MUSTG5 118.0 230KV	360	0.20622	-0.20286	1	
SPS	TOLK 230KV	46.37225	0.01117	SPS	MUSTG5 118.0 230KV	360	0.20622	-0.19505	1	
SPS	TUCUMCARI 115KV	15	0.00603	SPS	MUSTG5 118.0 230KV	360	0.20622	-0.20019	1	
SPS	MADDOX 115KV	10	-0.12327	SPS	BLACKHAWK 115KV	220	0.00335	-0.12662	2	
SPS	MADDOX 115KV	10	-0.12327	SPS	CAPROCK 115KV	79.99996	0.00603	-0.1293	2	
SPS	MADDOX 115KV	10	-0.12327	SPS	CZ 69KV	39	0.00308	-0.12635	2	
SPS	MADDOX 115KV	10	-0.12327	SPS	HARRINGTON 230KV	1066	0.00345	-0.12672	2	
SPS	MADDOX 115KV	10	-0.12327	SPS	HUBRCO2 69KV	11	0.00336	-0.12663	2	
SPS	MADDOX 115KV	10	-0.12327	SPS	JONES 230KV	486	-0.00766	-0.11561	2	
SPS	MADDOX 115KV	10	-0.12327	SPS	LP-BRND2 69KV	198.9922	-0.00851	-0.11476	2	
SPS	MADDOX 115KV	10	-0.12327	SPS	NICHOLS 115KV	213	0.00332	-0.12659	2	
SPS	MADDOX 115KV	10	-0.12327	SPS	NICHOLS 230KV	244	0.00341	-0.12668	2	
SPS	MADDOX 115KV	10	-0.12327	SPS	PLANTX 115KV	253	0.0058	-0.12907	2	
SPS	MADDOX 115KV	10	-0.12327	SPS	PLANTX 230KV	189	0.01062	-0.13389	2	
SPS	MADDOX 115KV	10	-0.12327	SPS	SAN JUAN 230KV	119.9999	-0.00487	-0.1184	2	
SPS	MADDOX 115KV	10	-0.12327	SPS	SIDRCH 69KV	20	0.00336	-0.12663	2	
SPS	MADDOX 115KV	10	-0.12327	SPS	STEER WATER 115KV	79.99996	0.0032	-0.12647	2	
SPS	MADDOX 115KV	10	-0.12327	SPS	TOLK 230KV	1033.628	0.01117	-0.13444	2	
SPS	MADDOX 115KV	10	-0.12327	SPS	WILWIND 230KV	159.9999	0.0048	-0.12807	2	
SPS	MADDOX 115KV	10	-0.12327	SPS	CUNNINGHAM 230KV	306	-0.03999	-0.05328	3	
SPS	CARLSBAD 69KV	18	-0.04775	SPS	CAPROCK 115KV	79.99996	0.00603	-0.05378	4	
SPS	CARLSBAD 69KV	18	-0.04775	SPS	PLANTX 115KV	253	0.0058	-0.05355	4	
SPS	CARLSBAD 69KV	18	-0.04775	SPS	PLANTX 230KV	189	0.01062	-0.05837	4	
SPS	CARLSBAD 69KV	18	-0.04775	SPS	TOLK 230KV	1033.628	0.01117	-0.05892	4	
SPS	CARLSBAD 69KV	18	-0.04775	SPS	WILWIND 230KV	159.9999	0.0048	-0.05255	4	
SPS	CARLSBAD 69KV	18	-0.04775	SPS	BLACKHAWK 115KV	220	0.00335	-0.0511	5	
SPS	CARLSBAD 69KV	18	-0.04775	SPS	CZ 69KV	39	0.00308	-0.05083	5	
SPS	CARLSBAD 69KV	18	-0.04775	SPS	HARRINGTON 230KV	1066	0.00345	-0.0512	5	
SPS	CARLSBAD 69KV	18	-0.04775	SPS	HUBRCO2 69KV	11	0.00336	-0.05111	5	
SPS	CARLSBAD 69KV	18	-0.04775	SPS	MOORE COUNTY 115KV	48	0.00353	-0.05128	5	
SPS	CARLSBAD 69KV	18	-0.04775	SPS	NICHOLS 115KV	213	0.00332	-0.05107	5	
SPS	CARLSBAD 69KV	18	-0.04775	SPS	NICHOLS 230KV	244	0.00341	-0.05116	5	
SPS	CARLSBAD 69KV	18	-0.04775	SPS	SAN JUAN 230KV	119.9999	-0.00487	-0.04288	5	
SPS	CARLSBAD 69KV	18	-0.04775	SPS	SIDRCH 69KV	20	0.00336	-0.05111	5	
SPS	CARLSBAD 69KV	18	-0.04775	SPS	STEER WATER 115KV	79.99996	0.0032	-0.05095	5	
SPS	CARLSBAD 69KV	18	-0.04775	SPS	JONES 230KV	486	-0.00766	-0.04009	6	
SPS	CARLSBAD 69KV	18	-0.04775	SPS	LP-BRND2 69KV	198.9922	-0.00851	-0.03924	6	

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

Upgrade: 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: 51966519691518915189012207FA
 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								Aggregate Redispatch Amount (MW)
1090487	7.6	7.6								
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)	
SPS	CUNNINGHAM 115KV	71	-0.12225	SPS	MUSTG5 118.0 230KV	210	0.24422	-0.36647	21	
SPS	CUNNINGHAM 115KV	110	-0.12225	SPS	MUSTG5 118.0 230KV	210	0.24422	-0.36647	21	
SPS	MADDOX 115KV	75	-0.12523	SPS	MUSTG5 118.0 230KV	210	0.24422	-0.36945	21	
SPS	CARLSBAD 69KV	18	-0.03941	SPS	MUSTG5 118.0 230KV	210	0.24422	-0.28363	27	
SPS	CUNNINGHAM 230KV	276.2122	-0.02583	SPS	MUSTG5 118.0 230KV	210	0.24422	-0.27005	28	
SPS	LP-BRND2 69KV	172	-0.01307	SPS	MUSTG5 118.0 230KV	210	0.24422	-0.25729	30	
SPS	MOORE COUNTY 115KV	48	0.00519	SPS	MUSTG5 118.0 230KV	210	0.24422	-0.23903	32	
SPS	NICHOLS 115KV	213	0.00487	SPS	MUSTG5 118.0 230KV	210	0.24422	-0.23935	32	
SPS	NICHOLS 230KV	244	0.00501	SPS	MUSTG5 118.0 230KV	210	0.24422	-0.23921	32	
SPS	PLANTX 115KV	48	0.00707	SPS	MUSTG5 118.0 230KV	210	0.24422	-0.23715	32	
SPS	RIVERVIEW 69KV	23	0.00493	SPS	MUSTG5 118.0 230KV	210	0.24422	-0.23929	32	
SPS	TUCUMCARI 115KV	15	0.01232	SPS	MUSTG5 118.0 230KV	210	0.24422	-0.2319	33	
SPS	TOLK 230KV	61.28983	0.01768	SPS	MUSTG5 118.0 230KV	210	0.24422	-0.22654	34	
SPS	MADDOX 115KV	75	-0.12523	SPS	TOLK 230KV	1018.71	0.01768	-0.14291	53	
SPS	CUNNINGHAM 115KV	71	-0.12225	SPS	TOLK 230KV	1018.71	0.01768	-0.13993	54	
SPS	CUNNINGHAM 115KV	110	-0.12225	SPS	TOLK 230KV	1018.71	0.01768	-0.13993	54	
SPS	MADDOX 115KV	75	-0.12523	SPS	PLANTX 230KV	189	0.01586	-0.14109	54	
SPS	CUNNINGHAM 115KV	71	-0.12225	SPS	PLANTX 230KV	189	0.01586	-0.13811	55	
SPS	CUNNINGHAM 115KV	110	-0.12225	SPS	PLANTX 230KV	189	0.01586	-0.13811	55	
SPS	MADDOX 115KV	75	-0.12523	SPS	CAPROCK 115KV	23	0.01232	-0.13755	55	
SPS	CUNNINGHAM 115KV	71	-0.12225	SPS	CAPROCK 115KV	23	0.01232	-0.13457	57	
SPS	CUNNINGHAM 115KV	110	-0.12225	SPS	CAPROCK 115KV	23	0.01232	-0.13457	57	

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

SPS	MADOX 115KV'	75	-0.12523	SPS	WILWIND 230KV'	46.08	0.00713	-0.13236	57
SPS	MADOX 115KV'	75	-0.12523	SPS	BLACKHAWK 115KV'	220	0.00492	-0.13015	58
SPS	MADOX 115KV'	75	-0.12523	SPS	HARRINGTON 230KV'	1066	0.00507	-0.1303	58
SPS	MADOX 115KV'	75	-0.12523	SPS	PLANTX 115KV'	205	0.00707	-0.1323	58
SPS	CUNNINGHAM 115KV'	71	-0.12225	SPS	PLANTX 115KV'	205	0.00707	-0.12932	59
SPS	CUNNINGHAM 115KV'	110	-0.12225	SPS	PLANTX 115KV'	205	0.00707	-0.12932	59
SPS	CUNNINGHAM 115KV'	71	-0.12225	SPS	WILWIND 230KV'	46.08	0.00713	-0.12938	59
SPS	CUNNINGHAM 115KV'	110	-0.12225	SPS	WILWIND 230KV'	46.08	0.00713	-0.12938	59
SPS	MADOX 115KV'	75	-0.12523	SPS	CZ 69KV'	35	0.00452	-0.12975	59
SPS	MADOX 115KV'	75	-0.12523	SPS	SAN JUAN 230KV'	35	0.00283	-0.12806	59
SPS	MADOX 115KV'	75	-0.12523	SPS	STEER WATER 115KV'	23	0.0047	-0.12993	59
SPS	CUNNINGHAM 115KV'	71	-0.12225	SPS	BLACKHAWK 115KV'	220	0.00492	-0.12717	60
SPS	CUNNINGHAM 115KV'	110	-0.12225	SPS	BLACKHAWK 115KV'	220	0.00492	-0.12717	60
SPS	CUNNINGHAM 115KV'	71	-0.12225	SPS	CZ 69KV'	35	0.00452	-0.12677	60
SPS	CUNNINGHAM 115KV'	110	-0.12225	SPS	CZ 69KV'	35	0.00452	-0.12677	60
SPS	CUNNINGHAM 115KV'	71	-0.12225	SPS	HARRINGTON 230KV'	1066	0.00507	-0.12732	60
SPS	CUNNINGHAM 115KV'	110	-0.12225	SPS	HARRINGTON 230KV'	1066	0.00507	-0.12732	60
SPS	CUNNINGHAM 115KV'	71	-0.12225	SPS	STEER WATER 115KV'	23	0.0047	-0.12695	60
SPS	CUNNINGHAM 115KV'	110	-0.12225	SPS	STEER WATER 115KV'	23	0.0047	-0.12695	60
SPS	CUNNINGHAM 115KV'	71	-0.12225	SPS	SAN JUAN 230KV'	35	0.00283	-0.12508	61
SPS	CUNNINGHAM 115KV'	110	-0.12225	SPS	SAN JUAN 230KV'	35	0.00283	-0.12508	61
SPS	MADOX 115KV'	75	-0.12523	SPS	JONES 230KV'	486	-0.01187	-0.11336	67
SPS	MADOX 115KV'	75	-0.12523	SPS	LP-BRND2 69KV'	60	-0.01307	-0.11216	68
SPS	CUNNINGHAM 115KV'	71	-0.12225	SPS	JONES 230KV'	486	-0.01187	-0.11038	69
SPS	CUNNINGHAM 115KV'	110	-0.12225	SPS	JONES 230KV'	486	-0.01187	-0.11038	69
SPS	CUNNINGHAM 115KV'	71	-0.12225	SPS	LP-BRND2 69KV'	60	-0.01307	-0.10918	70
SPS	CUNNINGHAM 115KV'	110	-0.12225	SPS	LP-BRND2 69KV'	60	-0.01307	-0.10918	70
SPS	MADOX 115KV'	75	-0.12523	SPS	CUNNINGHAM 230KV'	29.78784	-0.02583	-0.09942	77
SPS	CUNNINGHAM 115KV'	71	-0.12225	SPS	CUNNINGHAM 230KV'	29.78784	-0.02583	-0.09642	79
SPS	CUNNINGHAM 115KV'	110	-0.12225	SPS	CUNNINGHAM 230KV'	29.78784	-0.02583	-0.09642	79
SPS	CUNNINGHAM 230KV'	276.2122	-0.02583	SPS	TOLK 230KV'	1018.71	0.01768	-0.04351	175
SPS	CUNNINGHAM 230KV'	276.2122	-0.02583	SPS	PLANTX 230KV'	189	0.01586	-0.04169	182
SPS	CUNNINGHAM 230KV'	276.2122	-0.02583	SPS	PLANTX 115KV'	205	0.00707	-0.0329	231
SPS	CUNNINGHAM 230KV'	276.2122	-0.02583	SPS	HARRINGTON 230KV'	1066	0.00507	-0.0309	246
SPS	CUNNINGHAM 230KV'	276.2122	-0.02583	SPS	BLACKHAWK 115KV'	220	0.00492	-0.03075	247

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: 51986519691518915189013107G
 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	2.2	2.2	SPS	CUNNINGHAM 115KV'	71	-0.12228	SPS	MUSTG5 118.0 230KV'	210	0.24418	-0.36646	6
			SPS	MADOX 115KV'	75	-0.12526	SPS	MUSTG5 118.0 230KV'	210	0.24418	-0.36944	6
			SPS	CARLSBAD 69KV'	18	-0.0394	SPS	MUSTG5 118.0 230KV'	210	0.24418	-0.28358	8
			SPS	CZ 69KV'	4	0.00466	SPS	MUSTG5 118.0 230KV'	210	0.24418	-0.23952	9
			SPS	HARRINGTON 230KV'	360	0.00522	SPS	MUSTG5 118.0 230KV'	210	0.24418	-0.23896	9
			SPS	HUBRCD2 69KV'	6	0.00508	SPS	MUSTG5 118.0 230KV'	210	0.24418	-0.2391	9
			SPS	LP-BRND2 69KV'	152	-0.01335	SPS	MUSTG5 118.0 230KV'	210	0.24418	-0.25753	9
			SPS	MOORE COUNTY 115KV'	48	0.00534	SPS	MUSTG5 118.0 230KV'	210	0.24418	-0.23884	9
			SPS	NICHOLS 115KV'	107	0.00502	SPS	MUSTG5 118.0 230KV'	210	0.24418	-0.23916	9
			SPS	NICHOLS 230KV'	107.6348	0.00516	SPS	MUSTG5 118.0 230KV'	210	0.24418	-0.23902	9
			SPS	PLANTX 115KV'	48	0.00747	SPS	MUSTG5 118.0 230KV'	210	0.24418	-0.23671	9
			SPS	RIVERVIEW 69KV'	23	0.00508	SPS	MUSTG5 118.0 230KV'	210	0.24418	-0.2391	9
			SPS	SIDRCH 69KV'	6	0.00508	SPS	MUSTG5 118.0 230KV'	210	0.24418	-0.2391	9
			SPS	TOLK 230KV'	58.92902	0.01777	SPS	MUSTG5 118.0 230KV'	210	0.24418	-0.22641	10
			SPS	TUCUMCARI 115KV'	15	0.01241	SPS	MUSTG5 118.0 230KV'	210	0.24418	-0.23177	10
			SPS	MADOX 115KV'	75	-0.12526	SPS	TOLK 230KV'	1021.071	0.01777	-0.14303	15
			SPS	CUNNINGHAM 115KV'	71	-0.12228	SPS	CAPROCK 115KV'	79.98182	0.01241	-0.13469	16
			SPS	CUNNINGHAM 115KV'	71	-0.12228	SPS	PLANTX 230KV'	189	0.01597	-0.13825	16
			SPS	CUNNINGHAM 115KV'	71	-0.12228	SPS	TOLK 230KV'	1021.071	0.01777	-0.14005	16
			SPS	MADOX 115KV'	75	-0.12526	SPS	CAPROCK 115KV'	79.98182	0.01241	-0.13767	16
			SPS	MADOX 115KV'	75	-0.12526	SPS	PLANTX 230KV'	189	0.01597	-0.14123	16
			SPS	CUNNINGHAM 115KV'	71	-0.12228	SPS	CZ 69KV'	35	0.00466	-0.12694	17
			SPS	CUNNINGHAM 115KV'	71	-0.12228	SPS	HARRINGTON 230KV'	706	0.00522	-0.1275	17
			SPS	CUNNINGHAM 115KV'	71	-0.12228	SPS	NICHOLS 230KV'	136.3652	0.00516	-0.12744	17
			SPS	CUNNINGHAM 115KV'	71	-0.12228	SPS	PLANTX 115KV'	205	0.00747	-0.12975	17
			SPS	CUNNINGHAM 115KV'	71	-0.12228	SPS	STEER WATER 115KV'	79.98182	0.00484	-0.12712	17
			SPS	CUNNINGHAM 115KV'	71	-0.12228	SPS	WILWIND 230KV'	159.9636	0.00728	-0.12956	17
			SPS	MADOX 115KV'	75	-0.12526	SPS	BLACKHAWK 115KV'	220	0.00507	-0.13033	17
			SPS	MADOX 115KV'	75	-0.12526	SPS	CZ 69KV'	35	0.00466	-0.12992	17
			SPS	MADOX 115KV'	75	-0.12526	SPS	HARRINGTON 230KV'	706	0.00522	-0.13048	17
			SPS	MADOX 115KV'	75	-0.12526	SPS	NICHOLS 115KV'	106	0.00502	-0.13028	17
			SPS	MADOX 115KV'	75	-0.12526	SPS	NICHOLS 230KV'	136.3652	0.00516	-0.13042	17
			SPS	MADOX 115KV'	75	-0.12526	SPS	PLANTX 115KV'	205	0.00747	-0.13273	17
			SPS	MADOX 115KV'	75	-0.12526	SPS	SAN JUAN 230KV'	119.9727	0.00289	-0.12815	17
			SPS	MADOX 115KV'	75	-0.12526	SPS	WILWIND 230KV'	159.9636	0.00728	-0.13254	17
			SPS	CUNNINGHAM 115KV'	71	-0.12228	SPS	SAN JUAN 230KV'	119.9727	0.00289	-0.12517	18
			SPS	CUNNINGHAM 115KV'	71	-0.12228	SPS	JONES 230KV'	486	-0.01215	-0.11013	20
			SPS	CUNNINGHAM 115KV'	71	-0.12228	SPS	LP-BRND2 69KV'	80	-0.01335	-0.10893	20
			SPS	MADOX 115KV'	75	-0.12526	SPS	JONES 230KV'	486	-0.01215	-0.11311	20
			SPS	MADOX 115KV'	75	-0.12526	SPS	LP-BRND2 69KV'	80	-0.01335	-0.11191	20
			SPS	MADOX 115KV'	75	-0.12526	SPS	CUNNINGHAM 230KV'	306	-0.02586	-0.09942	22
			SPS	CUNNINGHAM 115KV'	71	-0.12228	SPS	CUNNINGHAM 230KV'	306	-0.02586	-0.09642	23
			SPS	CARLSBAD 69KV'	18	-0.0394	SPS	TOLK 230KV'	1021.071	0.01777	-0.05717	39
			SPS	CARLSBAD 69KV'	18	-0.0394	SPS	PLANTX 230KV'	189	0.01597	-0.05537	40
			SPS	CARLSBAD 69KV'	18	-0.0394	SPS	CAPROCK 115KV'	79.98182	0.01241	-0.05181	43
			SPS	CARLSBAD 69KV'	18	-0.0394	SPS	PLANTX 115KV'	205	0.00747	-0.04687	47
			SPS	CARLSBAD 69KV'	18	-0.0394	SPS	WILWIND 230KV'	159.9636	0.00728	-0.04668	47
			SPS	CARLSBAD 69KV'	18	-0.0394	SPS	BLACKHAWK 115KV'	220	0.00507	-0.04447	50
			SPS	CARLSBAD 69KV'	18	-0.0394	SPS	HARRINGTON 230KV'	706	0.00522	-0.04462	50
			SPS	CARLSBAD 69KV'	18	-0.0394	SPS	NICHOLS 230KV'	136.3652	0.00516	-0.04456	50
			SPS	CARLSBAD 69KV'	18	-0.0394	SPS	STEER WATER 115KV'	79.98182	0.00484	-0.04424	50
			SPS	CARLSBAD 69KV'	18	-0.0394	SPS	SAN JUAN 230KV'	119.9727	0.00289	-0.04229	52
			SPS	LP-BRND2 69KV'	152	-0.01335	SPS	TOLK 230KV'	1021.071	0.01777	-0.03112	71

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

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

Flowgate: 51966519691518915189013207WP
 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	0.6	0.6								
Source Control Area	Source				Sink Control Area	Sink				
SPS	MUSTANG 115KV		29	-0.44271	SPS	BLACKHAWK 115KV	220	0.00493	-0.44764	1
SPS	MUSTANG 115KV		29	-0.44271	SPS	CAPROCK 115KV	24	0.01232	-0.45603	1
SPS	MUSTANG 115KV		29	-0.44271	SPS	CUNNINGHAM 230KV	252.1067	-0.02583	-0.41688	1
SPS	MUSTANG 115KV		29	-0.44271	SPS	CZ 69KV	35	0.00452	-0.44723	1
SPS	MUSTANG 115KV		29	-0.44271	SPS	HARRINGTON 230KV	1066	0.00508	-0.44779	1
SPS	MUSTANG 115KV		29	-0.44271	SPS	HUBRCO2 69KV	5	0.00493	-0.44764	1
SPS	MUSTANG 115KV		29	-0.44271	SPS	JONES 230KV	243	-0.01186	-0.43085	1
SPS	MUSTANG 115KV		29	-0.44271	SPS	LP-BRND2 69KV	60	-0.01307	-0.42964	1
SPS	MUSTANG 115KV		29	-0.44271	SPS	MUSTG5 118.0 230KV	210	0.24422	-0.68693	1
SPS	MUSTANG 115KV		29	-0.44271	SPS	PLANTX 115KV	205	0.00707	-0.44978	1
SPS	MUSTANG 115KV		29	-0.44271	SPS	PLANTX 230KV	189	0.01586	-0.45857	1
SPS	MUSTANG 115KV		29	-0.44271	SPS	SAN JUAN 230KV	36	0.00283	-0.44554	1
SPS	MUSTANG 115KV		29	-0.44271	SPS	SIDRCH 69KV	14	0.00493	-0.44764	1
SPS	MUSTANG 115KV		29	-0.44271	SPS	STEER WATER 115KV	24	0.0047	-0.44741	1
SPS	MUSTANG 115KV		29	-0.44271	SPS	TOLK 230KV	1024.798	0.01768	-0.46039	1
SPS	MUSTANG 115KV		29	-0.44271	SPS	WILWIND 230KV	48	0.00713	-0.44984	1
SPS	CARLSBAD 69KV		18	-0.0394	SPS	MUSTG5 118.0 230KV	210	0.24422	-0.28362	2
SPS	CUNNINGHAM 115KV		71	-0.12225	SPS	MUSTG5 118.0 230KV	210	0.24422	-0.36647	2
SPS	CUNNINGHAM 115KV		110	-0.12225	SPS	MUSTG5 118.0 230KV	210	0.24422	-0.36647	2
SPS	CUNNINGHAM 230KV		53.89331	-0.02583	SPS	MUSTG5 118.0 230KV	210	0.24422	-0.27005	2
SPS	CZ 69KV		4	0.00452	SPS	MUSTG5 118.0 230KV	210	0.24422	-0.2397	2
SPS	HUBRCO2 69KV		6	0.00493	SPS	MUSTG5 118.0 230KV	210	0.24422	-0.23929	2
SPS	JONES 230KV		243	-0.01186	SPS	MUSTG5 118.0 230KV	210	0.24422	-0.25608	2
SPS	LP-BRND2 69KV		172	-0.01307	SPS	MUSTG5 118.0 230KV	210	0.24422	-0.25729	2
SPS	MADOX 115KV		75	-0.12522	SPS	MUSTG5 118.0 230KV	210	0.24422	-0.36944	2
SPS	MOORE COUNTY 115KV		48	0.00519	SPS	MUSTG5 118.0 230KV	210	0.24422	-0.23903	2
SPS	NICHOLS 115KV		213	0.00487	SPS	MUSTG5 118.0 230KV	210	0.24422	-0.23935	2
SPS	NICHOLS 230KV		244	0.00502	SPS	MUSTG5 118.0 230KV	210	0.24422	-0.2392	2
SPS	PLANTX 115KV		48	0.00707	SPS	MUSTG5 118.0 230KV	210	0.24422	-0.23715	2
SPS	RIVERVIEW 69KV		23	0.00493	SPS	MUSTG5 118.0 230KV	210	0.24422	-0.23929	2
SPS	SIDRCH 69KV		6	0.00493	SPS	MUSTG5 118.0 230KV	210	0.24422	-0.23929	2
SPS	TOLK 230KV		55.20163	0.01768	SPS	MUSTG5 118.0 230KV	210	0.24422	-0.22654	2
SPS	TUCUMCARI 115KV		15	0.01232	SPS	MUSTG5 118.0 230KV	210	0.24422	-0.2319	2
SPS	CUNNINGHAM 115KV		71	-0.12225	SPS	BLACKHAWK 115KV	220	0.00493	-0.12718	4
SPS	CUNNINGHAM 115KV		110	-0.12225	SPS	BLACKHAWK 115KV	220	0.00493	-0.12718	4
SPS	CUNNINGHAM 115KV		71	-0.12225	SPS	CAPROCK 115KV	24	0.01232	-0.13457	4
SPS	CUNNINGHAM 115KV		110	-0.12225	SPS	CAPROCK 115KV	24	0.01232	-0.13457	4
SPS	CUNNINGHAM 115KV		71	-0.12225	SPS	CZ 69KV	35	0.00452	-0.12677	4
SPS	CUNNINGHAM 115KV		110	-0.12225	SPS	CZ 69KV	35	0.00452	-0.12677	4
SPS	CUNNINGHAM 115KV		71	-0.12225	SPS	HARRINGTON 230KV	1066	0.00508	-0.12733	4
SPS	CUNNINGHAM 115KV		110	-0.12225	SPS	HARRINGTON 230KV	1066	0.00508	-0.12733	4
SPS	CUNNINGHAM 115KV		71	-0.12225	SPS	HUBRCO2 69KV	5	0.00493	-0.12718	4
SPS	CUNNINGHAM 115KV		110	-0.12225	SPS	HUBRCO2 69KV	5	0.00493	-0.12718	4
SPS	CUNNINGHAM 115KV		71	-0.12225	SPS	PLANTX 115KV	205	0.00707	-0.12932	4
SPS	CUNNINGHAM 115KV		110	-0.12225	SPS	PLANTX 115KV	205	0.00707	-0.12932	4
SPS	CUNNINGHAM 115KV		71	-0.12225	SPS	PLANTX 230KV	189	0.01586	-0.13811	4
SPS	CUNNINGHAM 115KV		110	-0.12225	SPS	PLANTX 230KV	189	0.01586	-0.13811	4
SPS	CUNNINGHAM 115KV		71	-0.12225	SPS	SIDRCH 69KV	14	0.00493	-0.12718	4
SPS	CUNNINGHAM 115KV		110	-0.12225	SPS	SIDRCH 69KV	14	0.00493	-0.12718	4
SPS	CUNNINGHAM 115KV		71	-0.12225	SPS	STEER WATER 115KV	24	0.0047	-0.12685	4
SPS	CUNNINGHAM 115KV		110	-0.12225	SPS	STEER WATER 115KV	24	0.0047	-0.12685	4
SPS	CUNNINGHAM 115KV		71	-0.12225	SPS	TOLK 230KV	1024.798	0.01768	-0.13983	4
SPS	CUNNINGHAM 115KV		110	-0.12225	SPS	TOLK 230KV	1024.798	0.01768	-0.13983	4
SPS	CUNNINGHAM 115KV		71	-0.12225	SPS	WILWIND 230KV	48	0.00713	-0.12938	4
SPS	CUNNINGHAM 115KV		110	-0.12225	SPS	WILWIND 230KV	48	0.00713	-0.12938	4
SPS	MADOX 115KV		75	-0.12522	SPS	BLACKHAWK 115KV	220	0.00493	-0.13015	4
SPS	MADOX 115KV		75	-0.12522	SPS	CAPROCK 115KV	24	0.01232	-0.13754	4
SPS	MADOX 115KV		75	-0.12522	SPS	CZ 69KV	35	0.00452	-0.12974	4
SPS	MADOX 115KV		75	-0.12522	SPS	HARRINGTON 230KV	1066	0.00508	-0.1303	4
SPS	MADOX 115KV		75	-0.12522	SPS	HUBRCO2 69KV	5	0.00493	-0.13015	4
SPS	MADOX 115KV		75	-0.12522	SPS	PLANTX 115KV	205	0.00707	-0.13229	4
SPS	MADOX 115KV		75	-0.12522	SPS	PLANTX 230KV	189	0.01586	-0.14108	4
SPS	MADOX 115KV		75	-0.12522	SPS	SAN JUAN 230KV	36	0.00283	-0.12805	4
SPS	MADOX 115KV		75	-0.12522	SPS	SIDRCH 69KV	14	0.00493	-0.13015	4
SPS	MADOX 115KV		75	-0.12522	SPS	STEER WATER 115KV	24	0.0047	-0.12992	4
SPS	MADOX 115KV		75	-0.12522	SPS	TOLK 230KV	1024.798	0.01768	-0.1429	4
SPS	MADOX 115KV		75	-0.12522	SPS	WILWIND 230KV	48	0.00713	-0.13235	4
SPS	CUNNINGHAM 115KV		71	-0.12225	SPS	JONES 230KV	243	-0.01186	-0.11039	5
SPS	CUNNINGHAM 115KV		110	-0.12225	SPS	JONES 230KV	243	-0.01186	-0.11039	5
SPS	CUNNINGHAM 115KV		71	-0.12225	SPS	LP-BRND2 69KV	60	-0.01307	-0.10918	5
SPS	CUNNINGHAM 115KV		110	-0.12225	SPS	LP-BRND2 69KV	60	-0.01307	-0.10918	5
SPS	CUNNINGHAM 115KV		71	-0.12225	SPS	SAN JUAN 230KV	36	0.00283	-0.12508	5
SPS	CUNNINGHAM 115KV		110	-0.12225	SPS	SAN JUAN 230KV	36	0.00283	-0.12508	5
SPS	MADOX 115KV		75	-0.12522	SPS	JONES 230KV	243	-0.01186	-0.11336	5
SPS	MADOX 115KV		75	-0.12522	SPS	LP-BRND2 69KV	60	-0.01307	-0.11215	5
SPS	CUNNINGHAM 115KV		71	-0.12225	SPS	CUNNINGHAM 230KV	252.1067	-0.02583	-0.09642	6
SPS	CUNNINGHAM 115KV		110	-0.12225	SPS	CUNNINGHAM 230KV	252.1067	-0.02583	-0.09642	6
SPS	MADOX 115KV		75	-0.12522	SPS	CUNNINGHAM 230KV	252.1067	-0.02583	-0.09939	6
SPS	CARLSBAD 69KV		18	-0.0394	SPS	PLANTX 230KV	189	0.01586	-0.05526	10
SPS	CARLSBAD 69KV		18	-0.0394	SPS	TOLK 230KV	1024.798	0.01768	-0.05708	10
SPS	CARLSBAD 69KV		18	-0.0394	SPS	CAPROCK 115KV	24	0.01232	-0.05172	11
SPS	CARLSBAD 69KV		18	-0.0394	SPS	PLANTX 115KV	205	0.00707	-0.04647	12
SPS	CARLSBAD 69KV		18	-0.0394	SPS	WILWIND 230KV	48	0.00713	-0.04653	12
SPS	CARLSBAD 69KV		18	-0.0394	SPS	BLACKHAWK 115KV	220	0.00493	-0.04433	13
SPS	CARLSBAD 69KV		18	-0.0394	SPS	CZ 69KV	35	0.00452	-0.04392	13
SPS	CARLSBAD 69KV		18	-0.0394	SPS	HARRINGTON 230KV	1066	0.00508	-0.04448	13
SPS	CARLSBAD 69KV		18	-0.0394	SPS	HUBRCO2 69KV	5	0.00493	-0.04433	13
SPS	CARLSBAD 69KV		18	-0.0394	SPS	SAN JUAN 230KV	36	0.00283	-0.04223	13
SPS	CARLSBAD 69KV		18	-0.0394	SPS	SIDRCH 69KV	14	0.00493	-0.04433	13
SPS	CARLSBAD 69KV		18	-0.0394	SPS	STEER WATER 115KV	24	0.0047	-0.0441	13
SPS	CUNNINGHAM 230KV		53.89331	-0.02583	SPS	TOLK 230KV	1024.798	0.01768	-0.04351	13
SPS	CUNNINGHAM 230KV		53.89331	-0.02583	SPS	PLANTX 230KV	189	0.01586	-0.04169	14
SPS	CUNNINGHAM 230KV		53.89331	-0.02583	SPS	CAPROCK 115KV	24	0.01232	-0.03815	15
SPS	CUNNINGHAM 230KV		53.89331	-0.02583	SPS	PLANTX 115KV	205	0.00707	-0.0329	17
SPS	CUNNINGHAM 230KV		53.89331	-0.02583	SPS	WILWIND 230KV	48	0.00713	-0.03296	17
SPS	CUNNINGHAM 230KV		53.89331	-0.02583	SPS	BLACKHAWK 115KV	220	0.00493	-0.03076	18
SPS	CUNNINGHAM 230KV		53.89331	-0.02583	SPS	HARRINGTON 230KV	1066	0.00508	-0.03091	18
SPS	CUNNINGHAM 230KV		53.89331	-0.02583	SPS	SIDRCH 69KV	14	0.00493	-0.03076	18
SPS	LP-BRND2 69KV		172	-0.01307	SPS	TOLK 230KV	1024.798	0.01768	-0.03075	18
SPS	CUNNINGHAM 230KV									

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

Limiting Facility: MUSTANG STATION 230/115KV TRANSFORMER CKT 1
 Direction: From->To
 Line Outage: YOAKUM COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1
 Flowgate: 519665196915189014107SH
 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	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
1090487	1.4	1.4								
SPS	CUNNINGHAM 115KV		71	-0.1223	SPS	MUSTG5 118.0 230KV	210	0.24417	-0.36647	4
SPS	CUNNINGHAM 115KV	35.10645	71	-0.1223	SPS	MUSTG5 118.0 230KV	210	0.24417	-0.36647	4
SPS	MADOX 115KV	75	-0.12528	SPS	MUSTG5 118.0 230KV	210	0.24417	-0.36945	4	
SPS	CARLSBAD 69KV	18	-0.03942	SPS	MUSTG5 118.0 230KV	210	0.24417	-0.28359	5	
SPS	LP-BRND2 69KV	152	-0.01337	SPS	MUSTG5 118.0 230KV	210	0.24417	-0.25754	5	
SPS	CZ 69KV	4	0.00464	SPS	MUSTG5 118.0 230KV	210	0.24417	-0.23953	6	
SPS	HUBRCO2 69KV	6	0.00506	SPS	MUSTG5 118.0 230KV	210	0.24417	-0.23911	6	
SPS	MOORE COUNTY 115KV	48	0.00531	SPS	MUSTG5 118.0 230KV	210	0.24417	-0.23886	6	
SPS	NICHOLS 115KV	131	0.005	SPS	MUSTG5 118.0 230KV	210	0.24417	-0.23917	6	
SPS	NICHOLS 230KV	244	0.00514	SPS	MUSTG5 118.0 230KV	210	0.24417	-0.23903	6	
SPS	PLANTX 115KV	48	0.00745	SPS	MUSTG5 118.0 230KV	210	0.24417	-0.23672	6	
SPS	RIVERVIEW 69KV	23	0.00506	SPS	MUSTG5 118.0 230KV	210	0.24417	-0.23911	6	
SPS	SIDRCH 69KV	6	0.00506	SPS	MUSTG5 118.0 230KV	210	0.24417	-0.23911	6	
SPS	TOLK 230KV	50.73962	0.01775	SPS	MUSTG5 118.0 230KV	210	0.24417	-0.23642	6	
SPS	TUCUMCARI 115KV	75	0.01238	SPS	MUSTG5 118.0 230KV	210	0.24417	-0.23178	6	
SPS	CUNNINGHAM 115KV	71	-0.1223	SPS	CAPROCK 115KV	79.98182	0.01239	-0.13469	10	
SPS	CUNNINGHAM 115KV	35.10645	-0.1223	SPS	CAPROCK 115KV	79.98182	0.01239	-0.13469	10	
SPS	CUNNINGHAM 115KV	71	-0.1223	SPS	PLANTX 230KV	189	0.01595	-0.13825	10	
SPS	CUNNINGHAM 115KV	35.10645	-0.1223	SPS	PLANTX 230KV	189	0.01595	-0.13825	10	
SPS	CUNNINGHAM 115KV	71	-0.1223	SPS	TOLK 230KV	1029.26	0.01775	-0.14005	10	
SPS	CUNNINGHAM 115KV	35.10645	-0.1223	SPS	TOLK 230KV	1029.26	0.01775	-0.14005	10	
SPS	MADOX 115KV	75	-0.12528	SPS	CAPROCK 115KV	79.98182	0.01239	-0.13767	10	
SPS	MADOX 115KV	75	-0.12528	SPS	PLANTX 230KV	189	0.01595	-0.14123	10	
SPS	MADOX 115KV	75	-0.12528	SPS	TOLK 230KV	1029.26	0.01775	-0.14303	10	
SPS	CUNNINGHAM 115KV	71	-0.1223	SPS	BLACKHAWK 115KV	220	0.00505	-0.12735	11	
SPS	CUNNINGHAM 115KV	35.10645	-0.1223	SPS	BLACKHAWK 115KV	220	0.00505	-0.12735	11	
SPS	CUNNINGHAM 115KV	71	-0.1223	SPS	CZ 69KV	35	0.00464	-0.12694	11	
SPS	CUNNINGHAM 115KV	35.10645	-0.1223	SPS	CZ 69KV	35	0.00464	-0.12694	11	
SPS	CUNNINGHAM 115KV	71	-0.1223	SPS	HARRINGTON 230KV	1066	0.0052	-0.1275	11	
SPS	CUNNINGHAM 115KV	35.10645	-0.1223	SPS	HARRINGTON 230KV	1066	0.0052	-0.1275	11	
SPS	CUNNINGHAM 115KV	71	-0.1223	SPS	HUBRCO2 69KV	5	0.00506	-0.12736	11	
SPS	CUNNINGHAM 115KV	35.10645	-0.1223	SPS	HUBRCO2 69KV	5	0.00506	-0.12736	11	
SPS	CUNNINGHAM 115KV	71	-0.1223	SPS	NICHOLS 115KV	82	0.005	-0.1273	11	
SPS	CUNNINGHAM 115KV	35.10645	-0.1223	SPS	NICHOLS 115KV	82	0.005	-0.1273	11	
SPS	CUNNINGHAM 115KV	71	-0.1223	SPS	PLANTX 115KV	205	0.00745	-0.12975	11	
SPS	CUNNINGHAM 115KV	35.10645	-0.1223	SPS	PLANTX 115KV	205	0.00745	-0.12975	11	
SPS	CUNNINGHAM 115KV	71	-0.1223	SPS	SAN JUAN 230KV	119.9727	0.00287	-0.12517	11	
SPS	CUNNINGHAM 115KV	35.10645	-0.1223	SPS	SAN JUAN 230KV	119.9727	0.00287	-0.12517	11	
SPS	CUNNINGHAM 115KV	71	-0.1223	SPS	SIDRCH 69KV	14	0.00506	-0.12736	11	
SPS	CUNNINGHAM 115KV	35.10645	-0.1223	SPS	SIDRCH 69KV	14	0.00506	-0.12736	11	
SPS	CUNNINGHAM 115KV	71	-0.1223	SPS	STEER WATER 115KV	79.98182	0.00482	-0.12712	11	
SPS	CUNNINGHAM 115KV	35.10645	-0.1223	SPS	STEER WATER 115KV	79.98182	0.00482	-0.12712	11	
SPS	CUNNINGHAM 115KV	71	-0.1223	SPS	WILWIND 230KV	159.9636	0.00725	-0.12955	11	
SPS	CUNNINGHAM 115KV	35.10645	-0.1223	SPS	WILWIND 230KV	159.9636	0.00725	-0.12955	11	
SPS	MADOX 115KV	75	-0.12528	SPS	BLACKHAWK 115KV	220	0.00505	-0.13033	11	
SPS	MADOX 115KV	75	-0.12528	SPS	CZ 69KV	35	0.00464	-0.12992	11	
SPS	MADOX 115KV	75	-0.12528	SPS	HARRINGTON 230KV	1066	0.0052	-0.13048	11	
SPS	MADOX 115KV	75	-0.12528	SPS	HUBRCO2 69KV	5	0.00506	-0.13034	11	
SPS	MADOX 115KV	75	-0.12528	SPS	NICHOLS 115KV	82	0.005	-0.13028	11	
SPS	MADOX 115KV	75	-0.12528	SPS	PLANTX 115KV	205	0.00745	-0.13273	11	
SPS	MADOX 115KV	75	-0.12528	SPS	SAN JUAN 230KV	119.9727	0.00287	-0.12815	11	
SPS	MADOX 115KV	75	-0.12528	SPS	SIDRCH 69KV	14	0.00506	-0.13034	11	
SPS	MADOX 115KV	75	-0.12528	SPS	STEER WATER 115KV	79.98182	0.00482	-0.1301	11	
SPS	MADOX 115KV	75	-0.12528	SPS	WILWIND 230KV	159.9636	0.00725	-0.13253	11	
SPS	MADOX 115KV	75	-0.12528	SPS	JONES 230KV	486	-0.01217	-0.11311	12	
SPS	CUNNINGHAM 115KV	71	-0.1223	SPS	JONES 230KV	486	-0.01217	-0.11013	13	
SPS	CUNNINGHAM 115KV	35.10645	-0.1223	SPS	JONES 230KV	486	-0.01217	-0.11013	13	
SPS	CUNNINGHAM 115KV	71	-0.1223	SPS	LP-BRND2 69KV	80	-0.01337	-0.10893	13	
SPS	CUNNINGHAM 115KV	35.10645	-0.1223	SPS	LP-BRND2 69KV	80	-0.01337	-0.10893	13	
SPS	MADOX 115KV	75	-0.12528	SPS	LP-BRND2 69KV	80	-0.01337	-0.11191	13	
SPS	MADOX 115KV	75	-0.12528	SPS	CUNNINGHAM 230KV	306	-0.02587	-0.09941	14	
SPS	CUNNINGHAM 115KV	71	-0.1223	SPS	CUNNINGHAM 230KV	306	-0.02587	-0.09643	15	
SPS	CUNNINGHAM 115KV	35.10645	-0.1223	SPS	CUNNINGHAM 230KV	306	-0.02587	-0.09643	15	
SPS	CARLSBAD 69KV	18	-0.03942	SPS	PLANTX 230KV	189	0.01595	-0.0537	25	
SPS	CARLSBAD 69KV	18	-0.03942	SPS	TOLK 230KV	1029.26	0.01775	-0.05717	25	
SPS	CARLSBAD 69KV	18	-0.03942	SPS	CAPROCK 115KV	79.98182	0.01239	-0.05181	27	
SPS	CARLSBAD 69KV	18	-0.03942	SPS	PLANTX 115KV	205	0.00745	-0.04687	30	
SPS	CARLSBAD 69KV	18	-0.03942	SPS	WILWIND 230KV	159.9636	0.00725	-0.04667	30	
SPS	CARLSBAD 69KV	18	-0.03942	SPS	BLACKHAWK 115KV	220	0.00505	-0.04447	32	
SPS	CARLSBAD 69KV	18	-0.03942	SPS	CZ 69KV	35	0.00464	-0.04406	32	
SPS	CARLSBAD 69KV	18	-0.03942	SPS	HARRINGTON 230KV	1066	0.0052	-0.04462	32	
SPS	CARLSBAD 69KV	18	-0.03942	SPS	NICHOLS 115KV	82	0.005	-0.04442	32	
SPS	CARLSBAD 69KV	18	-0.03942	SPS	SIDRCH 69KV	14	0.00506	-0.04448	32	
SPS	CARLSBAD 69KV	18	-0.03942	SPS	STEER WATER 115KV	79.98182	0.00482	-0.04424	32	
SPS	CARLSBAD 69KV	18	-0.03942	SPS	SAN JUAN 230KV	119.9727	0.00287	-0.04229	33	
SPS	LP-BRND2 69KV	152	-0.01337	SPS	TOLK 230KV	1029.26	0.01775	-0.03112	45	

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

Upgrade: MUSTANG STATION 230/115KV TRANSFORMER CKT 1
 Limiting Facility: MUSTANG STATION 230/115KV TRANSFORMER CKT 1
 Direction: From->To
 Line Outage: CUNNINGHAM STATION 230/115KV TRANSFORMER CKT 1
 Flowgate: 51966519691522095220814407SP
 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	0.2	0.2								
SPS	CARLSBAD 69KV		18	-0.04708	SPS	MUSTG5 118.0 230KV	360	0.20827	-0.25535	1
SPS	LP-BRND2 69KV	152	-0.00906	SPS	MUSTG5 118.0 230KV	360	0.20827	-0.21733	1	
SPS	MADOX 115KV	10	-0.15324	SPS	PLANTX 115KV	220.3628	0.00558	-0.15882	1	
SPS	MADOX 115KV	10	-0.15324	SPS	PLANTX 230KV	189	0.01198	-0.16432	1	
SPS	NICHOLS 115KV	66.00001	0.00347	SPS	MUSTG5 118.0 230KV	360	0.20827	-0.2048	1	
SPS	NICHOLS 230KV	97	0.00357	SPS	MUSTG5 118.0 230KV	360	0.20827	-0.2047	1	
SPS	PLANTX 115KV	32.61719	0.00558	SPS	MUSTG5 118.0 230KV	360	0.20827	-0.20269	1	
SPS	RIVERVIEW 69KV	23	0.00351	SPS	MUSTG5 118.0 230KV	360	0.20827	-0.20476	1	
SPS	TOLK 230KV	46.90909	0.01203	SPS	MUSTG5 118.0 230KV	360	0.20827	-0.19624	1	
SPS	TUCUMCARI 115KV	15	0.00756	SPS	MUSTG5 118.0 230KV	360	0.20827	-0.20071	1	

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

SPS	MADOX 115KV	10	-0.15324	SPS	CUNNINGHAM 230KV	306	-0.01943	-0.13381	2
SPS	CARLSBAD 69KV	18	-0.04708	SPS	CAPROCK 115KV	8	0.00756	-0.05464	4
SPS	CARLSBAD 69KV	18	-0.04708	SPS	PLANTX 115KV	220.3828	0.00558	-0.05266	4
SPS	CARLSBAD 69KV	18	-0.04708	SPS	PLANTX 230KV	189	0.01108	-0.05816	4
SPS	CARLSBAD 69KV	18	-0.04708	SPS	TOLK 230KV	1033.091	0.01203	-0.05911	4
SPS	CARLSBAD 69KV	18	-0.04708	SPS	BLACKHAWK 115KV	220	0.00351	-0.05059	5
SPS	CARLSBAD 69KV	18	-0.04708	SPS	CZ 69KV	39	0.00322	-0.05053	5
SPS	CARLSBAD 69KV	18	-0.04708	SPS	HARRINGTON 230KV	1066	0.00361	-0.05069	5
SPS	CARLSBAD 69KV	18	-0.04708	SPS	HUBRCO2 69KV	11	0.00351	-0.05059	5
SPS	CARLSBAD 69KV	18	-0.04708	SPS	NICHOLS 115KV	147	0.00347	-0.05055	5
SPS	CARLSBAD 69KV	18	-0.04708	SPS	NICHOLS 230KV	147	0.00357	-0.05065	5
SPS	CARLSBAD 69KV	18	-0.04708	SPS	SAN JUAN 230KV	12	-0.00122	-0.04586	5
SPS	CARLSBAD 69KV	18	-0.04708	SPS	SIDRCH 69KV	20	0.00351	-0.05059	5
SPS	CARLSBAD 69KV	18	-0.04708	SPS	STEER WATER 115KV	8	0.00335	-0.05043	5
SPS	CARLSBAD 69KV	18	-0.04708	SPS	WILWIND 230KV	16	0.00503	-0.05211	5
SPS	CARLSBAD 69KV	18	-0.04708	SPS	JONES 230KV	486	-0.00817	-0.03891	6
SPS	CARLSBAD 69KV	18	-0.04708	SPS	LP-BRND2 69KV	80	-0.00906	-0.03802	6

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

Upgrade: MUSTANG STATION 230/115KV TRANSFORMER CKT 1
 Limiting Facility: MUSTANG STATION 230/115KV TRANSFORMER CKT 1
 Direction: From->To
 Line Outage: GEN51971 1
 Flowgate: 51986519691GEN5197112107AP
 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
1090301	0.1	2.5
1090454	0.1	2.5
1090487	2.3	2.5

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	-0.11625	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.32732	8
SPS	CUNNINGHAM 115KV	110	-0.11625	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.32732	8
SPS	MADOX 115KV	193	-0.11884	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.32991	8
SPS	CARLSBAD 69KV	18	-0.04466	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.25573	10
SPS	CUNNINGHAM 230KV	243.1462	-0.03619	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.24726	10
SPS	JONES 230KV	382	-0.00725	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.21888	11
SPS	LP-BRND2 69KV	172	-0.00866	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.21972	11
SPS	CZ 69KV	4	0.00311	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.20787	12
SPS	HARRINGTON 230KV	360	0.00348	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.20759	12
SPS	HUBRCO2 69KV	6	0.00338	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.20769	12
SPS	MOORE COUNTY 115KV	48	0.00355	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.20752	12
SPS	NICHOLS 115KV	213	0.00335	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.20772	12
SPS	NICHOLS 230KV	244	0.00344	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.20763	12
SPS	PLANTX 115KV	253	0.00542	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.20565	12
SPS	PLANTX 230KV	189	0.01071	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.20036	12
SPS	RIVERVIEW 69KV	23	0.00338	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.20769	12
SPS	SIDRCH 69KV	6	0.00338	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.20769	12
SPS	TOLK 230KV	65.11285	0.01147	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.1996	12
SPS	TUCUMCARI 115KV	15	0.00653	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.20454	12
SPS	CUNNINGHAM 115KV	71	-0.11625	SPS	TOLK 230KV	1014.887	0.01147	-0.12772	19
SPS	CUNNINGHAM 115KV	110	-0.11625	SPS	TOLK 230KV	1014.887	0.01147	-0.12772	19
SPS	MADOX 115KV	193	-0.11884	SPS	TOLK 230KV	1014.887	0.01147	-0.13031	19
SPS	CUNNINGHAM 115KV	71	-0.11625	SPS	CAPROCK 115KV	79.98182	0.00653	-0.12278	20
SPS	CUNNINGHAM 115KV	110	-0.11625	SPS	CAPROCK 115KV	79.98182	0.00653	-0.12278	20
SPS	MADOX 115KV	193	-0.11884	SPS	BLACKHAWK 115KV	220	0.00338	-0.12222	20
SPS	MADOX 115KV	193	-0.11884	SPS	CAPROCK 115KV	79.98182	0.00653	-0.12537	20
SPS	MADOX 115KV	193	-0.11884	SPS	CZ 69KV	35	0.0031	-0.12194	20
SPS	MADOX 115KV	193	-0.11884	SPS	HARRINGTON 230KV	706	0.00348	-0.12232	20
SPS	MADOX 115KV	193	-0.11884	SPS	SIDRCH 69KV	14	0.00338	-0.12222	20
SPS	MADOX 115KV	193	-0.11884	SPS	STEER WATER 115KV	79.98182	0.00323	-0.12207	20
SPS	MADOX 115KV	193	-0.11884	SPS	WILWIND 230KV	159.9636	0.00484	-0.12368	20
SPS	CUNNINGHAM 115KV	71	-0.11625	SPS	BLACKHAWK 115KV	220	0.00338	-0.11963	21
SPS	CUNNINGHAM 115KV	110	-0.11625	SPS	BLACKHAWK 115KV	220	0.00338	-0.11963	21
SPS	CUNNINGHAM 115KV	71	-0.11625	SPS	CZ 69KV	35	0.0031	-0.11935	21
SPS	CUNNINGHAM 115KV	110	-0.11625	SPS	CZ 69KV	35	0.0031	-0.11935	21
SPS	CUNNINGHAM 115KV	71	-0.11625	SPS	HARRINGTON 230KV	706	0.00348	-0.11973	21
SPS	CUNNINGHAM 115KV	110	-0.11625	SPS	HARRINGTON 230KV	706	0.00348	-0.11973	21
SPS	CUNNINGHAM 115KV	71	-0.11625	SPS	SIDRCH 69KV	14	0.00338	-0.11963	21
SPS	CUNNINGHAM 115KV	110	-0.11625	SPS	SIDRCH 69KV	14	0.00338	-0.11963	21
SPS	CUNNINGHAM 115KV	71	-0.11625	SPS	STEER WATER 115KV	79.98182	0.00323	-0.11948	21
SPS	CUNNINGHAM 115KV	110	-0.11625	SPS	STEER WATER 115KV	79.98182	0.00323	-0.11948	21
SPS	CUNNINGHAM 115KV	71	-0.11625	SPS	WILWIND 230KV	159.9636	0.00484	-0.12109	21
SPS	CUNNINGHAM 115KV	110	-0.11625	SPS	WILWIND 230KV	159.9636	0.00484	-0.12109	21
SPS	CUNNINGHAM 115KV	71	-0.11625	SPS	SAN JUAN 230KV	119.9727	-0.00368	-0.11257	22
SPS	CUNNINGHAM 115KV	110	-0.11625	SPS	SAN JUAN 230KV	119.9727	-0.00368	-0.11257	22
SPS	MADOX 115KV	193	-0.11884	SPS	JONES 230KV	104	-0.00781	-0.11103	22
SPS	MADOX 115KV	193	-0.11884	SPS	SAN JUAN 230KV	119.9727	-0.00368	-0.11516	22
SPS	CUNNINGHAM 115KV	71	-0.11625	SPS	JONES 230KV	104	-0.00781	-0.10844	23
SPS	CUNNINGHAM 115KV	110	-0.11625	SPS	JONES 230KV	104	-0.00781	-0.10844	23
SPS	CUNNINGHAM 115KV	71	-0.11625	SPS	LP-BRND2 69KV	60	-0.00865	-0.1076	23
SPS	CUNNINGHAM 115KV	110	-0.11625	SPS	LP-BRND2 69KV	60	-0.00865	-0.1076	23
SPS	MADOX 115KV	193	-0.11884	SPS	LP-BRND2 69KV	60	-0.00865	-0.11019	23
SPS	MADOX 115KV	193	-0.11884	SPS	CUNNINGHAM 230KV	62.85376	-0.03619	-0.08265	30
SPS	CUNNINGHAM 115KV	71	-0.11625	SPS	CUNNINGHAM 230KV	62.85376	-0.03619	-0.08006	31
SPS	CUNNINGHAM 115KV	110	-0.11625	SPS	CUNNINGHAM 230KV	62.85376	-0.03619	-0.08006	31
SPS	CARLSBAD 69KV	18	-0.04466	SPS	TOLK 230KV	1014.887	0.01147	-0.05013	44
SPS	CARLSBAD 69KV	18	-0.04466	SPS	CAPROCK 115KV	79.98182	0.00653	-0.05119	49
SPS	CARLSBAD 69KV	18	-0.04466	SPS	WILWIND 230KV	159.9636	0.00484	-0.0495	50
SPS	CARLSBAD 69KV	18	-0.04466	SPS	BLACKHAWK 115KV	220	0.00338	-0.04804	52
SPS	CARLSBAD 69KV	18	-0.04466	SPS	CZ 69KV	35	0.0031	-0.04776	52
SPS	CARLSBAD 69KV	18	-0.04466	SPS	HARRINGTON 230KV	706	0.00348	-0.04814	52
SPS	CARLSBAD 69KV	18	-0.04466	SPS	STEER WATER 115KV	79.98182	0.00323	-0.04789	52
SPS	CUNNINGHAM 230KV	243.1462	-0.03619	SPS	TOLK 230KV	1014.887	0.01147	-0.04766	52
SPS	CUNNINGHAM 230KV	243.1462	-0.03619	SPS	CAPROCK 115KV	79.98182	0.00653	-0.04272	58
SPS	CUNNINGHAM 230KV	243.1462	-0.03619	SPS	WILWIND 230KV	159.9636	0.00484	-0.04103	61
SPS	CUNNINGHAM 230KV	243.1462	-0.03619	SPS	BLACKHAWK 115KV	220	0.00338	-0.03957	63
SPS	CUNNINGHAM 230KV	243.1462	-0.03619	SPS	CZ 69KV	35	0.0031	-0.03929	63
SPS	CUNNINGHAM 230KV	243.1462	-0.03619	SPS	HARRINGTON 230KV	706	0.00348	-0.03967	63
SPS	CUNNINGHAM 230KV	243.1462	-0.03619	SPS	STEER WATER 115KV	79.98182	0.00323	-0.03942	63
SPS	CUNNINGHAM 230KV	243.1462	-0.03619	SPS	SAN JUAN 230KV	119.9727	-0.00368	-0.03251	77

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

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

Line Outage: GEN:51972 1
 Flowgate: 51966519691GEN5197212207SH
 Date Redispatch Needed: 6/1 - 10/1 Unil EOC of Upgrade
 Season Flowgate Identified: 2007 Summer Shoulder

Reservation	Relief Amount	Aggregate Relief Amount	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
1090487	3.3	3.3								
Source Control Area	Source									
SPS	CUNNINGHAM 115KV	10.08301	-0.11627	SPS	MUSTG5 118.0 230KV	210	0.21106	-0.32733	10	
SPS	MADOX 115KV	75	-0.11885	SPS	MUSTG5 118.0 230KV	210	0.21106	-0.32991	10	
SPS	CARLSBAD 69KV	18	-0.04467	SPS	MUSTG5 118.0 230KV	210	0.21106	-0.25573	13	
SPS	LP-BRND2 69KV	152	-0.00866	SPS	MUSTG5 118.0 230KV	210	0.21106	-0.21972	15	
SPS	HUBRCO2 69KV	6	0.00337	SPS	MUSTG5 118.0 230KV	210	0.21106	-0.20769	16	
SPS	MOORE COUNTY 115KV	48	0.00354	SPS	MUSTG5 118.0 230KV	210	0.21106	-0.20752	16	
SPS	NICHOLS 115KV	66.00001	0.00333	SPS	MUSTG5 118.0 230KV	210	0.21106	-0.20773	16	
SPS	NICHOLS 230KV	97	0.00343	SPS	MUSTG5 118.0 230KV	210	0.21106	-0.20763	16	
SPS	PLANTX 115KV	48	0.00541	SPS	MUSTG5 118.0 230KV	210	0.21106	-0.20565	16	
SPS	RIVERVIEW 69KV	23	0.00337	SPS	MUSTG5 118.0 230KV	210	0.21106	-0.20769	16	
SPS	SIDRCH 69KV	6	0.00337	SPS	MUSTG5 118.0 230KV	210	0.21106	-0.20769	16	
SPS	TUCUMCARI 115KV	15	0.00652	SPS	MUSTG5 118.0 230KV	210	0.21106	-0.20454	16	
SPS	TOLK 230KV	51.94583	0.01146	SPS	MUSTG5 118.0 230KV	210	0.21106	-0.1996	17	
SPS	MADOX 115KV	75	-0.11885	SPS	TOLK 230KV	1028.054	0.01146	-0.13031	25	
SPS	CUNNINGHAM 115KV	10.08301	-0.11627	SPS	PLANTX 230KV	189	0.0107	-0.12697	26	
SPS	CUNNINGHAM 115KV	10.08301	-0.11627	SPS	TOLK 230KV	1028.054	0.01146	-0.12773	26	
SPS	MADOX 115KV	75	-0.11885	SPS	PLANTX 230KV	189	0.0107	-0.12655	26	
SPS	CUNNINGHAM 115KV	10.08301	-0.11627	SPS	PLANTX 115KV	205	0.00541	-0.12168	27	
SPS	CUNNINGHAM 115KV	10.08301	-0.11627	SPS	WILWIND 230KV	16	0.00482	-0.12109	27	
SPS	MADOX 115KV	75	-0.11885	SPS	BLACKHAWK 115KV	220	0.00336	-0.12221	27	
SPS	MADOX 115KV	75	-0.11885	SPS	CZ 69KV	35	0.00309	-0.12194	27	
SPS	MADOX 115KV	75	-0.11885	SPS	HARRINGTON 230KV	1066	0.00347	-0.12232	27	
SPS	MADOX 115KV	75	-0.11885	SPS	NICHOLS 115KV	147	0.00333	-0.12218	27	
SPS	MADOX 115KV	75	-0.11885	SPS	NICHOLS 230KV	147	0.00343	-0.12228	27	
SPS	MADOX 115KV	75	-0.11885	SPS	PLANTX 115KV	205	0.00541	-0.12426	27	
SPS	MADOX 115KV	75	-0.11885	SPS	SIDRCH 69KV	14	0.00337	-0.12222	27	
SPS	MADOX 115KV	75	-0.11885	SPS	WILWIND 230KV	16	0.00482	-0.12367	27	
SPS	CUNNINGHAM 115KV	10.08301	-0.11627	SPS	BLACKHAWK 115KV	220	0.00336	-0.11963	28	
SPS	CUNNINGHAM 115KV	10.08301	-0.11627	SPS	CZ 69KV	35	0.00309	-0.11936	28	
SPS	CUNNINGHAM 115KV	10.08301	-0.11627	SPS	HARRINGTON 230KV	1066	0.00347	-0.11974	28	
SPS	CUNNINGHAM 115KV	10.08301	-0.11627	SPS	NICHOLS 115KV	147	0.00333	-0.1196	28	
SPS	CUNNINGHAM 115KV	10.08301	-0.11627	SPS	NICHOLS 230KV	147	0.00343	-0.1197	28	
SPS	CUNNINGHAM 115KV	10.08301	-0.11627	SPS	SIDRCH 69KV	14	0.00337	-0.11964	28	
SPS	MADOX 115KV	75	-0.11885	SPS	SAN JUAN 230KV	12	-0.00369	-0.11516	29	
SPS	CUNNINGHAM 115KV	10.08301	-0.11627	SPS	SAN JUAN 230KV	12	-0.00369	-0.11258	30	
SPS	MADOX 115KV	75	-0.11885	SPS	JONES 230KV	486	-0.00783	-0.11102	30	
SPS	MADOX 115KV	75	-0.11885	SPS	LP-BRND2 69KV	80	-0.00866	-0.11019	30	
SPS	MADOX 115KV	75	-0.11885	SPS	CUNNINGHAM 230KV	306	-0.0362	-0.08265	40	

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: 51966519691GEN5197214107AP
 Date Redispatch Needed: Starting 2007 4/1 - 6/1 Unil 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)
1090301	0.1	2.0								
1090454	0.1	2.0								
1090487	1.9	2.0								
Source Control Area	Source									
SPS	CUNNINGHAM 115KV	71	-0.11625	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.32732	6	
SPS	CUNNINGHAM 115KV	110	-0.11625	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.32732	6	
SPS	MADOX 115KV	193	-0.11884	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.32991	6	
SPS	CARLSBAD 69KV	18	-0.04466	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.25573	8	
SPS	CUNNINGHAM 230KV	242.8745	-0.03619	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.24726	8	
SPS	JONES 230KV	382	-0.00781	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.21888	9	
SPS	LP-BRND2 69KV	172	-0.00865	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.21972	9	
SPS	CZ 69KV	4	0.0031	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.20797	10	
SPS	HARRINGTON 230KV	360	0.00348	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.20759	10	
SPS	HUBRCO2 69KV	6	0.00338	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.20769	10	
SPS	MOORE COUNTY 115KV	48	0.00355	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.20752	10	
SPS	NICHOLS 115KV	213	0.00335	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.20772	10	
SPS	NICHOLS 230KV	244	0.00344	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.20763	10	
SPS	PLANTX 115KV	253	0.00542	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.20565	10	
SPS	PLANTX 230KV	189	0.01071	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.20036	10	
SPS	RIVERVIEW 69KV	23	0.00338	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.20769	10	
SPS	SIDRCH 69KV	6	0.00338	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.20769	10	
SPS	TOLK 230KV	63.91309	0.01147	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.1996	10	
SPS	TUCUMCARI 115KV	15	0.00653	SPS	MUSTG5 118.0 230KV	210	0.21107	-0.20454	10	
SPS	CUNNINGHAM 115KV	71	-0.11625	SPS	CAPROCK 115KV	79.98182	0.00653	-0.12278	16	
SPS	CUNNINGHAM 115KV	110	-0.11625	SPS	CAPROCK 115KV	79.98182	0.00653	-0.12278	16	
SPS	CUNNINGHAM 115KV	71	-0.11625	SPS	TOLK 230KV	1016.087	0.01147	-0.12772	16	
SPS	CUNNINGHAM 115KV	110	-0.11625	SPS	TOLK 230KV	1016.087	0.01147	-0.12772	16	
SPS	MADOX 115KV	193	-0.11884	SPS	CAPROCK 115KV	79.98182	0.00653	-0.12537	16	
SPS	MADOX 115KV	193	-0.11884	SPS	TOLK 230KV	1016.087	0.01147	-0.13031	16	
SPS	MADOX 115KV	193	-0.11884	SPS	WILWIND 230KV	159.9636	0.00484	-0.12368	16	
SPS	CUNNINGHAM 115KV	71	-0.11625	SPS	BLACKHAWK 115KV	220	0.00338	-0.11963	17	
SPS	CUNNINGHAM 115KV	110	-0.11625	SPS	BLACKHAWK 115KV	220	0.00338	-0.11963	17	
SPS	CUNNINGHAM 115KV	71	-0.11625	SPS	CZ 69KV	35	0.0031	-0.11935	17	
SPS	CUNNINGHAM 115KV	110	-0.11625	SPS	CZ 69KV	35	0.0031	-0.11935	17	
SPS	CUNNINGHAM 115KV	71	-0.11625	SPS	HARRINGTON 230KV	706	0.00348	-0.11973	17	
SPS	CUNNINGHAM 115KV	110	-0.11625	SPS	HARRINGTON 230KV	706	0.00348	-0.11973	17	
SPS	CUNNINGHAM 115KV	71	-0.11625	SPS	SIDRCH 69KV	14	0.00338	-0.11963	17	
SPS	CUNNINGHAM 115KV	110	-0.11625	SPS	SIDRCH 69KV	14	0.00338	-0.11963	17	
SPS	CUNNINGHAM 115KV	71	-0.11625	SPS	STEER WATER 115KV	79.98182	0.00323	-0.11948	17	
SPS	CUNNINGHAM 115KV	110	-0.11625	SPS	STEER WATER 115KV	79.98182	0.00323	-0.11948	17	
SPS	CUNNINGHAM 115KV	71	-0.11625	SPS	WILWIND 230KV	159.9636	0.00484	-0.12109	17	
SPS	CUNNINGHAM 115KV	110	-0.11625	SPS	WILWIND 230KV	159.9636	0.00484	-0.12109	17	
SPS	MADOX 115KV	193	-0.11884	SPS	BLACKHAWK 115KV	220	0.00338	-0.12222	17	
SPS	MADOX 115KV	193	-0.11884	SPS	CZ 69KV	35	0.0031	-0.12194	17	
SPS	MADOX 115KV	193	-0.11884	SPS	HARRINGTON 230KV	706	0.00348	-0.12232	17	
SPS	MADOX 115KV	193	-0.11884	SPS	SIDRCH 69KV	14	0.00338	-0.12222	17	
SPS	MADOX 115KV	193	-0.11884	SPS	STEER WATER 115KV	79.98182	0.00323	-0.12207	17	
SPS	CUNNINGHAM 115KV	71	-0.11625	SPS	SAN JUAN 230KV	119.9727	-0.00368	-0.11257	18	
SPS	CUNNINGHAM 115KV	110	-0.11625	SPS	SAN JUAN 230KV	119.9727	-0.00368	-0.11257	18	
SPS	MADOX 115KV	193	-0.11884	SPS	JONES 230KV	104	-0.00781	-0.11103	18	
SPS	MADOX 115KV	193	-0.11884	SPS	LP-BRND2 69KV	60	-0.00865	-0.11019	18	
SPS	MADOX 115KV	193	-0.11884	SPS	SAN JUAN 230KV	119.9727	-0.00368	-0.11516	18	

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

SPS	CUNNINGHAM 115KV	71	-0.11625	SPS	JONES 230KV	104	-0.00781	-0.10844	19
SPS	CUNNINGHAM 115KV	110	-0.11625	SPS	JONES 230KV	104	-0.00781	-0.10844	19
SPS	CUNNINGHAM 115KV	71	-0.11625	SPS	LP-BRND2 69KV	60	-0.00865	-0.1076	19
SPS	CUNNINGHAM 115KV	110	-0.11625	SPS	LP-BRND2 69KV	60	-0.00865	-0.1076	19
SPS	MADOX 115KV	193	-0.11884	SPS	CUNNINGHAM 230KV	63.12549	-0.03619	-0.08265	24
SPS	CUNNINGHAM 115KV	71	-0.11625	SPS	CUNNINGHAM 230KV	63.12549	-0.03619	-0.08006	25
SPS	CUNNINGHAM 115KV	110	-0.11625	SPS	CUNNINGHAM 230KV	63.12549	-0.03619	-0.08006	25
SPS	CARLSBAD 69KV	18	-0.04466	SPS	TOLK 230KV	1016.087	0.01147	-0.05613	36
SPS	CARLSBAD 69KV	18	-0.04466	SPS	CAPROCK 115KV	79.98182	0.00653	-0.05119	39
SPS	CARLSBAD 69KV	18	-0.04466	SPS	WILWIND 230KV	159.9636	0.00484	-0.0495	41
SPS	CARLSBAD 69KV	18	-0.04466	SPS	BLACKHAWK 115KV	220	0.00338	-0.04804	42
SPS	CARLSBAD 69KV	18	-0.04466	SPS	CZ 69KV	35	0.0031	-0.04776	42
SPS	CARLSBAD 69KV	18	-0.04466	SPS	HARRINGTON 230KV	706	0.00348	-0.04814	42
SPS	CARLSBAD 69KV	18	-0.04466	SPS	SIDRCH 69KV	14	0.00338	-0.04804	42
SPS	CARLSBAD 69KV	18	-0.04466	SPS	STEER WATER 115KV	79.98182	0.00323	-0.04789	42
SPS	CUNNINGHAM 230KV	242.8745	-0.03619	SPS	TOLK 230KV	1016.087	0.01147	-0.04766	42
SPS	CUNNINGHAM 230KV	242.8745	-0.03619	SPS	CAPROCK 115KV	79.98182	0.00653	-0.04272	47
SPS	CARLSBAD 69KV	18	-0.04466	SPS	SAN JUAN 230KV	119.9727	-0.00368	-0.04098	49
SPS	CUNNINGHAM 230KV	242.8745	-0.03619	SPS	WILWIND 230KV	159.9636	0.00484	-0.04103	49
SPS	CUNNINGHAM 230KV	242.8745	-0.03619	SPS	BLACKHAWK 115KV	220	0.00338	-0.03957	51
SPS	CUNNINGHAM 230KV	242.8745	-0.03619	SPS	CZ 69KV	35	0.0031	-0.03929	51
SPS	CUNNINGHAM 230KV	242.8745	-0.03619	SPS	HARRINGTON 230KV	706	0.00348	-0.03967	51
SPS	CUNNINGHAM 230KV	242.8745	-0.03619	SPS	STEER WATER 115KV	79.98182	0.00323	-0.03942	51
SPS	CUNNINGHAM 230KV	242.8745	-0.03619	SPS	SAN JUAN 230KV	119.9727	-0.00368	-0.03251	62

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 Andri-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: 51960519661519625196812407G
 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	1.9	1.9	SPS	HUBRCO2 69KV	6	0.00123	SPS	MUSTANG 115KV	300	0.4299	-0.42867	4
			SPS	NICHOLS 115KV	129.3887	0.00123	SPS	MUSTANG 115KV	300	0.4299	-0.4287	4
			SPS	NICHOLS 230KV	244	0.00125	SPS	MUSTANG 115KV	300	0.4299	-0.42865	4
			SPS	CUNNINGHAM 115KV	71	-0.16159	SPS	MUSTG5 118.0 230KV	210	0.15054	-0.31213	6
			SPS	MADOX 115KV	75	-0.16457	SPS	MUSTG5 118.0 230KV	210	0.15054	-0.31511	6
			SPS	MUSTG5 118.0 230KV	150	0.15054	SPS	MUSTANG 115KV	300	0.4299	-0.27936	7
			SPS	CARLSBAD 69KV	18	-0.07656	SPS	MUSTG5 118.0 230KV	210	0.15054	-0.2271	8
			SPS	CUNNINGHAM 115KV	71	-0.16159	SPS	PLANTX 230KV	189	0.00434	-0.16593	11
			SPS	CUNNINGHAM 115KV	71	-0.16159	SPS	TOLK 230KV	1019.028	0.0037	-0.16529	11
			SPS	MADOX 115KV	75	-0.16457	SPS	BLACKHAWK 115KV	220	0.00123	-0.1658	11
			SPS	MADOX 115KV	75	-0.16457	SPS	HARRINGTON 230KV	706	0.00127	-0.16584	11
			SPS	MADOX 115KV	75	-0.16457	SPS	PLANTX 115KV	205	0.00215	-0.16672	11
			SPS	MADOX 115KV	75	-0.16457	SPS	PLANTX 230KV	189	0.00434	-0.16891	11
			SPS	MADOX 115KV	75	-0.16457	SPS	SIDRCH 69KV	14	0.00123	-0.1658	11
			SPS	MADOX 115KV	75	-0.16457	SPS	TOLK 230KV	1019.028	0.0037	-0.16827	11
			SPS	MADOX 115KV	75	-0.16457	SPS	WILWIND 230KV	72	0.00174	-0.16631	11
			SPS	CUNNINGHAM 115KV	71	-0.16159	SPS	CAPROCK 115KV	36	-0.00271	-0.15888	12
			SPS	CUNNINGHAM 115KV	71	-0.16159	SPS	HARRINGTON 230KV	706	0.00127	-0.16286	12
			SPS	CUNNINGHAM 115KV	71	-0.16159	SPS	JONES 230KV	486	-0.00227	-0.15932	12
			SPS	CUNNINGHAM 115KV	71	-0.16159	SPS	LP-BRND2 69KV	80	-0.00262	-0.15897	12
			SPS	CUNNINGHAM 115KV	71	-0.16159	SPS	NICHOLS 115KV	83.61133	0.0012	-0.16279	12
			SPS	CUNNINGHAM 115KV	71	-0.16159	SPS	PLANTX 115KV	205	0.00215	-0.16374	12
			SPS	CUNNINGHAM 115KV	71	-0.16159	SPS	STEER WATER 115KV	36	0.00116	-0.16275	12
			SPS	CUNNINGHAM 115KV	71	-0.16159	SPS	WILWIND 230KV	72	0.00174	-0.16333	12
			SPS	LP-BRND2 69KV	152	-0.00262	SPS	MUSTG5 118.0 230KV	210	0.15054	-0.15316	12
			SPS	MADOX 115KV	75	-0.16457	SPS	CAPROCK 115KV	36	-0.00271	-0.16186	12
			SPS	MADOX 115KV	75	-0.16457	SPS	JONES 230KV	486	-0.00227	-0.1623	12
			SPS	MADOX 115KV	75	-0.16457	SPS	LP-BRND2 69KV	80	-0.00262	-0.16195	12
			SPS	TUCUMCARI 115KV	15	-0.00271	SPS	MUSTG5 118.0 230KV	210	0.15054	-0.15325	12
			SPS	CUNNINGHAM 115KV	71	-0.16159	SPS	SAN JUAN 230KV	54	-0.01891	-0.14268	13
			SPS	HARRINGTON 230KV	360	0.00127	SPS	MUSTG5 118.0 230KV	210	0.15054	-0.14927	13
			SPS	HUBRCO2 69KV	6	0.00123	SPS	MUSTG5 118.0 230KV	210	0.15054	-0.14931	13
			SPS	MADOX 115KV	75	-0.16457	SPS	SAN JUAN 230KV	54	-0.01891	-0.14566	13
			SPS	NICORE COUNTY 115KV	48	0.00129	SPS	MUSTG5 118.0 230KV	210	0.15054	-0.14925	13
			SPS	NICHOLS 115KV	129.3887	0.00123	SPS	MUSTG5 118.0 230KV	210	0.15054	-0.14934	13
			SPS	NICHOLS 230KV	244	0.00125	SPS	MUSTG5 118.0 230KV	210	0.15054	-0.14929	13
			SPS	PLANTX 115KV	48	0.00215	SPS	MUSTG5 118.0 230KV	210	0.15054	-0.14839	13
			SPS	RIVERVIEW 69KV	23	0.00123	SPS	MUSTG5 118.0 230KV	210	0.15054	-0.14931	13
			SPS	SIDRCH 69KV	6	0.00123	SPS	MUSTG5 118.0 230KV	210	0.15054	-0.14931	13
			SPS	TOLK 230KV	60.97162	0.0037	SPS	MUSTG5 118.0 230KV	210	0.15054	-0.14684	13
			SPS	CUNNINGHAM 115KV	71	-0.16159	SPS	CUNNINGHAM 230KV	306	-0.07305	-0.08854	21
			SPS	MADOX 115KV	75	-0.16457	SPS	CUNNINGHAM 230KV	306	-0.07305	-0.09152	21
			SPS	CARLSBAD 69KV	18	-0.07656	SPS	PLANTX 230KV	189	0.00434	-0.0809	23
			SPS	CARLSBAD 69KV	18	-0.07656	SPS	BLACKHAWK 115KV	220	0.00123	-0.07779	24
			SPS	CARLSBAD 69KV	18	-0.07656	SPS	HARRINGTON 230KV	706	0.00127	-0.07783	24
			SPS	CARLSBAD 69KV	18	-0.07656	SPS	NICHOLS 115KV	83.61133	0.0012	-0.07776	24
			SPS	CARLSBAD 69KV	18	-0.07656	SPS	PLANTX 115KV	205	0.00215	-0.07871	24
			SPS	CARLSBAD 69KV	18	-0.07656	SPS	TOLK 230KV	1019.028	0.0037	-0.08026	24
			SPS	CARLSBAD 69KV	18	-0.07656	SPS	WILWIND 230KV	72	0.00174	-0.0783	24
			SPS	CARLSBAD 69KV	18	-0.07656	SPS	JONES 230KV	486	-0.00227	-0.07429	25
			SPS	CARLSBAD 69KV	18	-0.07656	SPS	CAPROCK 115KV	36	-0.00271	-0.07385	26
			SPS	CARLSBAD 69KV	18	-0.07656	SPS	LP-BRND2 69KV	80	-0.00262	-0.07394	26
			SPS	CARLSBAD 69KV	18	-0.07656	SPS	SAN JUAN 230KV	54	-0.01891	-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 Andri-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: 51960519661519625196812407SH
 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	8.3	8.3	SPS	PLANTX 115KV	48	0.00215	SPS	MUSTANG 115KV	300	0.42989	-0.42774	19
			SPS	RIVERVIEW 69KV	23	0.00122	SPS	MUSTANG 115KV	300	0.42989	-0.42867	19
			SPS	CUNNINGHAM 115KV	71	-0.1616	SPS	MUSTG5 118.0 230KV	210	0.15053	-0.31213	26

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

SPS	CUNNINGHAM 115KV'	110	-0.1616	SPS	MUSTG5 118.0 230KV'	210	0.15053	-0.31213	26
SPS	MADDOX 115KV'	75	-0.16457	SPS	MUSTG5 118.0 230KV'	210	0.15053	-0.3151	26
SPS	CARLSBAD 69KV'	18	-0.07657	SPS	MUSTG5 118.0 230KV'	210	0.15053	-0.2271	36
SPS	CUNNINGHAM 230KV'	18.88623	-0.07306	SPS	MUSTG5 118.0 230KV'	210	0.15053	-0.22359	37
SPS	MADDOX 115KV'	75	-0.16457	SPS	PLANTX 230KV'	189	0.00433	-0.1689	49
SPS	MADDOX 115KV'	75	-0.16457	SPS	TOLK 230KV'	1022.377	0.0037	-0.16827	49
SPS	CUNNINGHAM 115KV'	71	-0.1616	SPS	PLANTX 115KV'	205	0.00215	-0.16375	50
SPS	CUNNINGHAM 115KV'	110	-0.1616	SPS	PLANTX 115KV'	205	0.00215	-0.16375	50
SPS	CUNNINGHAM 115KV'	71	-0.1616	SPS	PLANTX 230KV'	189	0.00433	-0.16593	50
SPS	CUNNINGHAM 115KV'	110	-0.1616	SPS	PLANTX 230KV'	189	0.00433	-0.16593	50
SPS	CUNNINGHAM 115KV'	71	-0.1616	SPS	TOLK 230KV'	1022.377	0.0037	-0.1653	50
SPS	CUNNINGHAM 115KV'	110	-0.1616	SPS	TOLK 230KV'	1022.377	0.0037	-0.1653	50
SPS	MADDOX 115KV'	75	-0.16457	SPS	HARRINGTON 230KV'	1066	0.00126	-0.16583	50
SPS	MADDOX 115KV'	75	-0.16457	SPS	PLANTX 115KV'	205	0.00215	-0.16672	50
SPS	CUNNINGHAM 115KV'	71	-0.1616	SPS	BLACKHAWK 115KV'	220	0.00122	-0.16282	51
SPS	CUNNINGHAM 115KV'	71	-0.1616	SPS	HARRINGTON 230KV'	1066	0.00126	-0.16286	51
SPS	CUNNINGHAM 115KV'	110	-0.1616	SPS	HARRINGTON 230KV'	1066	0.00126	-0.16286	51
SPS	MADDOX 115KV'	75	-0.16457	SPS	JONES 230KV'	486	-0.00227	-0.1623	51
SPS	MADDOX 115KV'	75	-0.16457	SPS	LP-BRND2 69KV'	80	-0.00262	-0.16195	51
SPS	CUNNINGHAM 115KV'	71	-0.1616	SPS	JONES 230KV'	486	-0.00227	-0.15933	52
SPS	CUNNINGHAM 115KV'	110	-0.1616	SPS	JONES 230KV'	486	-0.00227	-0.15933	52
SPS	CUNNINGHAM 115KV'	71	-0.1616	SPS	LP-BRND2 69KV'	80	-0.00262	-0.15898	52
SPS	CUNNINGHAM 115KV'	110	-0.1616	SPS	LP-BRND2 69KV'	80	-0.00262	-0.15898	52
SPS	LP-BRND2 69KV'	152	-0.00262	SPS	MUSTG5 118.0 230KV'	210	0.15053	-0.15315	54
SPS	MOORE COUNTY 115KV'	48	0.00128	SPS	MUSTG5 118.0 230KV'	210	0.15053	-0.14924	55
SPS	NICHOLS 115KV'	131	0.00121	SPS	MUSTG5 118.0 230KV'	210	0.15053	-0.14933	55
SPS	NICHOLS 230KV'	244	0.00124	SPS	MUSTG5 118.0 230KV'	210	0.15053	-0.14929	55
SPS	RIVERVIEW 69KV'	23	0.00122	SPS	MUSTG5 118.0 230KV'	210	0.15053	-0.14931	55
SPS	PLANTX 115KV'	48	0.00215	SPS	MUSTG5 118.0 230KV'	210	0.15053	-0.14838	56
SPS	TOLK 230KV'	57.6232	0.0037	SPS	MUSTG5 118.0 230KV'	210	0.15053	-0.14683	56
SPS	MADDOX 115KV'	75	-0.16457	SPS	CUNNINGHAM 230KV'	287.1138	-0.07306	-0.09151	90
SPS	CUNNINGHAM 115KV'	71	-0.1616	SPS	CUNNINGHAM 230KV'	287.1138	-0.07306	-0.08854	93
SPS	CUNNINGHAM 115KV'	110	-0.1616	SPS	CUNNINGHAM 230KV'	287.1138	-0.07306	-0.08854	93

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

Upgrade: 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: 51980519661519625196813307SP
 Date Redispatch Needed: 6/1/07 - 10/1/07
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount								
1090487	11.1	11.1								
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	-0.07656	SPS	MUSTANG 115KV'	300	0.42989	-0.50645	22	
SPS	NICHOLS 230KV'	29.36429	0.00125	SPS	MUSTANG 115KV'	300	0.42989	-0.42864	26	
SPS	TOLK 230KV'	43.81552	0.0037	SPS	MUSTANG 115KV'	300	0.42989	-0.42619	26	
SPS	CARLSBAD 69KV'	18	-0.07656	SPS	MUSTG5 118.0 230KV'	360	0.15053	-0.22709	49	
SPS	LP-BRND2 69KV'	108	-0.00262	SPS	MUSTG5 118.0 230KV'	360	0.15053	-0.15315	73	
SPS	NICHOLS 230KV'	29.36429	0.00125	SPS	MUSTG5 118.0 230KV'	360	0.15053	-0.14928	74	
SPS	TOLK 230KV'	43.81552	0.0037	SPS	MUSTG5 118.0 230KV'	360	0.15053	-0.14683	76	

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: 51962519681519605196612407SH
 Date Redispatch Needed: 6/1 - 10/1 Until EOC of Upgrade
 Season Flowgate Identified: 2007 Summer Shoulder

Reservation	Relief Amount	Aggregate Relief Amount								
1090487	4.5	4.5								
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	-0.16071	SPS	MUSTANG 115KV'	300	0.4299	-0.59061	8	
SPS	MADDOX 115KV'	75	-0.16388	SPS	MUSTANG 115KV'	300	0.4299	-0.59378	8	
SPS	LP-BRND2 69KV'	152	-0.00248	SPS	MUSTANG 115KV'	300	0.4299	-0.43236	10	
SPS	HUBRCO2 69KV'	6	0.00116	SPS	MUSTANG 115KV'	300	0.4299	-0.42874	11	
SPS	MOORE COUNTY 115KV'	48	0.00122	SPS	MUSTANG 115KV'	300	0.4299	-0.42868	11	
SPS	NICHOLS 115KV'	131	0.00114	SPS	MUSTANG 115KV'	300	0.4299	-0.42876	11	
SPS	PLANTX 115KV'	48	0.00205	SPS	MUSTANG 115KV'	300	0.4299	-0.42785	11	
SPS	TOLK 230KV'	57.6232	0.00348	SPS	MUSTANG 115KV'	300	0.4299	-0.42642	11	
SPS	MADDOX 115KV'	75	-0.16388	SPS	MUSTG5 118.0 230KV'	210	0.14749	-0.31137	14	
SPS	CUNNINGHAM 115KV'	71	-0.16071	SPS	MUSTG5 118.0 230KV'	210	0.14749	-0.3082	15	
SPS	CUNNINGHAM 115KV'	110	-0.16071	SPS	MUSTG5 118.0 230KV'	210	0.14749	-0.3082	15	
SPS	MUSTG5 118.0 230KV'	150	0.14749	SPS	MUSTANG 115KV'	300	0.4299	-0.28241	16	
SPS	CARLSBAD 69KV'	18	-0.07641	SPS	MUSTG5 118.0 230KV'	210	0.14749	-0.2239	20	
SPS	CUNNINGHAM 230KV'	18.88623	-0.07309	SPS	MUSTG5 118.0 230KV'	210	0.14749	-0.22058	20	
SPS	CUNNINGHAM 115KV'	71	-0.16071	SPS	PLANTX 230KV'	189	0.00415	-0.16486	27	
SPS	CUNNINGHAM 115KV'	110	-0.16071	SPS	PLANTX 230KV'	189	0.00415	-0.16486	27	
SPS	CUNNINGHAM 115KV'	71	-0.16071	SPS	TOLK 230KV'	1022.377	0.00348	-0.16419	27	
SPS	CUNNINGHAM 115KV'	110	-0.16071	SPS	TOLK 230KV'	1022.377	0.00348	-0.16419	27	
SPS	MADDOX 115KV'	75	-0.16388	SPS	BLACKHAWK 115KV'	220	0.00116	-0.16504	27	
SPS	MADDOX 115KV'	75	-0.16388	SPS	CZ 69KV'	35	0.00106	-0.16494	27	
SPS	MADDOX 115KV'	75	-0.16388	SPS	HARRINGTON 230KV'	1066	0.0012	-0.16508	27	
SPS	MADDOX 115KV'	75	-0.16388	SPS	NICHOLS 115KV'	82	0.00114	-0.16502	27	
SPS	MADDOX 115KV'	75	-0.16388	SPS	PLANTX 115KV'	205	0.00205	-0.16593	27	
SPS	MADDOX 115KV'	75	-0.16388	SPS	PLANTX 230KV'	189	0.00415	-0.16803	27	
SPS	MADDOX 115KV'	75	-0.16388	SPS	SIDRCH 69KV'	14	0.00116	-0.16504	27	
SPS	MADDOX 115KV'	75	-0.16388	SPS	TOLK 230KV'	1022.377	0.00348	-0.16736	27	
SPS	MADDOX 115KV'	75	-0.16388	SPS	WILWIND 230KV'	16	0.00164	-0.16552	27	
SPS	CUNNINGHAM 115KV'	71	-0.16071	SPS	BLACKHAWK 115KV'	220	0.00116	-0.16187	28	
SPS	CUNNINGHAM 115KV'	110	-0.16071	SPS	BLACKHAWK 115KV'	220	0.00116	-0.16187	28	
SPS	CUNNINGHAM 115KV'	71	-0.16071	SPS	CZ 69KV'	35	0.00106	-0.16177	28	
SPS	CUNNINGHAM 115KV'	110	-0.16071	SPS	CZ 69KV'	35	0.00106	-0.16177	28	
SPS	CUNNINGHAM 115KV'	71	-0.16071	SPS	HARRINGTON 230KV'	1066	0.0012	-0.16191	28	
SPS	CUNNINGHAM 115KV'	110	-0.16071	SPS	HARRINGTON 230KV'	1066	0.0012	-0.16191	28	
SPS	CUNNINGHAM 115KV'	71	-0.16071	SPS	JONES 230KV'	486	-0.00213	-0.15858	28	
SPS	CUNNINGHAM 115KV'	110	-0.16071	SPS	JONES 230KV'	486	-0.00213	-0.15858	28	
SPS	CUNNINGHAM 115KV'	71	-0.16071	SPS	LP-BRND2 69KV'	80	-0.00246	-0.15825	28	
SPS	CUNNINGHAM 115KV'	110	-0.16071	SPS	LP-BRND2 69KV'	80	-0.00246	-0.15825	28	
SPS	CUNNINGHAM 115KV'	71	-0.16071	SPS	NICHOLS 115KV'	82	0.00114	-0.16185	28	
SPS	CUNNINGHAM 115KV'	110	-0.16071	SPS	NICHOLS 115KV'	82	0.00114	-0.16185	28	
SPS	CUNNINGHAM 115KV'	71	-0.16071	SPS	PLANTX 115KV'	205	0.00205	-0.16276	28	

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

SPS	'CUNNINGHAM 115KV'	110	-0.16071	SPS	'PLANTX 115KV'	205	0.00205	-0.16276	28
SPS	'CUNNINGHAM 115KV'	71	-0.16071	SPS	'SIDRCH 69KV'	14	0.00116	-0.16187	28
SPS	'CUNNINGHAM 115KV'	110	-0.16071	SPS	'SIDRCH 69KV'	14	0.00116	-0.16187	28
SPS	'CUNNINGHAM 115KV'	71	-0.16071	SPS	'WILWIND 230KV'	16	0.00164	-0.16235	28
SPS	'CUNNINGHAM 115KV'	110	-0.16071	SPS	'WILWIND 230KV'	16	0.00164	-0.16235	28
SPS	'MADOX 115KV'	75	-0.16388	SPS	'JONES 230KV'	486	-0.00213	-0.16175	28
SPS	'MADOX 115KV'	75	-0.16388	SPS	'LP-BRND2 69KV'	80	-0.00246	-0.16142	28
SPS	'LP-BRND2 69KV'	152	-0.00246	SPS	'MUSTG5 118.0 230KV'	210	0.14749	-0.14995	30
SPS	'TUCUMCARI 115KV'	15	-0.00289	SPS	'MUSTG5 118.0 230KV'	210	0.14749	-0.15038	30
SPS	'MADOX 115KV'	75	-0.16388	SPS	'SAN JUAN 230KV'	12	-0.01905	-0.14483	31
SPS	'MOORE COUNTY 115KV'	48	0.00122	SPS	'MUSTG5 118.0 230KV'	210	0.14749	-0.14627	31
SPS	'NICHOLS 115KV'	131	0.00114	SPS	'MUSTG5 118.0 230KV'	210	0.14749	-0.14635	31
SPS	'NICHOLS 230KV'	244	0.00118	SPS	'MUSTG5 118.0 230KV'	210	0.14749	-0.14631	31
SPS	'PLANTX 115KV'	48	0.00205	SPS	'MUSTG5 118.0 230KV'	210	0.14749	-0.14544	31
SPS	'RIVERVIEW 69KV'	23	0.00116	SPS	'MUSTG5 118.0 230KV'	210	0.14749	-0.14633	31
SPS	'TOLK 230KV'	57.6232	0.00348	SPS	'MUSTG5 118.0 230KV'	210	0.14749	-0.14401	31
SPS	'CUNNINGHAM 115KV'	71	-0.16071	SPS	'SAN JUAN 230KV'	12	-0.01905	-0.14166	32
SPS	'CUNNINGHAM 115KV'	110	-0.16071	SPS	'SAN JUAN 230KV'	12	-0.01905	-0.14166	32
SPS	'MADOX 115KV'	75	-0.16388	SPS	'CUNNINGHAM 230KV'	287.1138	-0.07309	-0.09079	50
SPS	'CUNNINGHAM 115KV'	71	-0.16071	SPS	'CUNNINGHAM 230KV'	287.1138	-0.07309	-0.08762	51
SPS	'CUNNINGHAM 115KV'	110	-0.16071	SPS	'CUNNINGHAM 230KV'	287.1138	-0.07309	-0.08762	51

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

Upgrade: 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: 51962519681519605196613307SP
 Date Redispatch Needed: 6/1/07 - 10/1/07
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount							
1090487	7.0	7.0							
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
SPS	'LP-BRND2 69KV'	108	-0.00246	SPS	'MUSTANG 115KV'	300	0.4299	-0.43236	16
SPS	'TUCUMCARI 115KV'	15	-0.00289	SPS	'MUSTANG 115KV'	300	0.4299	-0.43279	16
SPS	'MADOX 115KV'	10	-0.16388	SPS	'MUSTG5 118.0 230KV'	360	0.14749	-0.31137	22
SPS	'CARLSBAD 69KV'	18	-0.07641	SPS	'MUSTG5 118.0 230KV'	360	0.14749	-0.2329	31
SPS	'LP-BRND2 69KV'	108	-0.00246	SPS	'MUSTG5 118.0 230KV'	360	0.14749	-0.14995	47
SPS	'NICHOLS 230KV'	29.36429	0.00118	SPS	'MUSTG5 118.0 230KV'	360	0.14749	-0.14631	48
SPS	'RIVERVIEW 69KV'	23	0.00116	SPS	'MUSTG5 118.0 230KV'	360	0.14749	-0.14633	48
SPS	'TOLK 230KV'	43.81552	0.00348	SPS	'MUSTG5 118.0 230KV'	360	0.14749	-0.14401	49

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: 52310522521522095218513207SP
 Date Redispatch Needed: 6/1/07 - 10/1/07
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount							
1090487	1.1	1.1							
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	-0.26518	SPS	'CUNNINGHAM 115KV'	71	0.10078	-0.36596	3
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'BLACKHAWK 115KV'	220	-0.00345	-0.26173	4
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'CZ 69KV'	39	-0.00318	-0.262	4
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'HARRINGTON 230KV'	1066	-0.00354	-0.26164	4
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'HUBRCO2 69KV'	11	-0.00345	-0.26173	4
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'JONES 230KV'	486	0.01408	-0.27926	4
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'LP-BRND2 69KV'	137.3535	0.01314	-0.27832	4
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'MOORE COUNTY 115KV'	48	-0.0036	-0.26158	4
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'MUSTG5 118.0 230KV'	360	0.04864	-0.31382	4
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'NICHOLS 115KV'	213	-0.00345	-0.26173	4
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'NICHOLS 230KV'	244	-0.0035	-0.26168	4
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'PLANTX 115KV'	253	-0.00574	-0.25944	4
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'PLANTX 230KV'	189	-0.00895	-0.25623	4
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'SIDRCH 69KV'	20	-0.00345	-0.26173	4
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'STEER WATER 115KV'	35.27273	-0.00332	-0.26186	4
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'TOLK 230KV'	1034.261	-0.01279	-0.25239	4
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'WILWIND 230KV'	70.54546	-0.00498	-0.2602	4
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'CAPROCK 115KV'	35.27273	-0.02589	-0.23929	5
SPS	'CARLSBAD 69KV'	18	-0.26518	SPS	'SAN JUAN 230KV'	52.90909	-0.06407	-0.20111	6
SPS	'TUCUMCARI 115KV'	15	-0.02589	SPS	'CUNNINGHAM 115KV'	71	0.10078	-0.12667	9
SPS	'TUCUMCARI 115KV'	15	-0.02589	SPS	'CUNNINGHAM 230KV'	306	0.10412	-0.13001	9
SPS	'RIVERVIEW 69KV'	23	-0.00345	SPS	'CUNNINGHAM 230KV'	306	0.10412	-0.10757	10
SPS	'TOLK 230KV'	45.73911	-0.01279	SPS	'CUNNINGHAM 115KV'	110	0.10078	-0.11357	10
SPS	'TOLK 230KV'	45.73911	-0.01279	SPS	'CUNNINGHAM 230KV'	306	0.10412	-0.11691	10
SPS	'RIVERVIEW 69KV'	23	-0.00345	SPS	'CUNNINGHAM 115KV'	110	0.10078	-0.10423	11
SPS	'LP-BRND2 69KV'	94.64648	0.01314	SPS	'CUNNINGHAM 115KV'	71	0.10078	-0.08764	13
SPS	'LP-BRND2 69KV'	94.64648	0.01314	SPS	'CUNNINGHAM 115KV'	110	0.10078	-0.08764	13
SPS	'LP-BRND2 69KV'	94.64648	0.01314	SPS	'MADOX 115KV'	183	0.09795	-0.09481	13
SPS	'TUCUMCARI 115KV'	15	-0.02589	SPS	'MUSTG5 118.0 230KV'	360	0.04864	-0.07453	15
SPS	'TOLK 230KV'	45.73911	-0.01279	SPS	'MUSTANG 115KV'	300	0.05555	-0.06834	17
SPS	'TOLK 230KV'	45.73911	-0.01279	SPS	'MUSTG5 118.0 230KV'	360	0.04864	-0.06143	18
SPS	'RIVERVIEW 69KV'	23	-0.00345	SPS	'MUSTG5 118.0 230KV'	360	0.04864	-0.05209	22
SPS	'TUCUMCARI 115KV'	15	-0.02589	SPS	'LP-BRND2 69KV'	137.3535	0.01314	-0.03903	29
SPS	'LP-BRND2 69KV'	94.64648	0.01314	SPS	'MUSTG5 118.0 230KV'	360	0.04864	-0.0355	32

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: 52310522521522095218513408SP
 Date Redispatch Needed: Starting 2008 6/1 - 10/1 Until EOC
 Season Flowgate Identified: 2008 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount							
1090487	0.8	0.8							
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)

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

SPS	CARLSBAD 69KV		18	-0.26527	SPS	CUNNINGHAM 115KV		110	0.10063	-0.3659	2
SPS	CARLSBAD 69KV		18	-0.26527	SPS	CUNNINGHAM 115KV		71	0.10063	-0.3659	2
SPS	CARLSBAD 69KV		18	-0.26527	SPS	CUNNINGHAM 230KV		306	0.10397	-0.36924	2
SPS	CARLSBAD 69KV		18	-0.26527	SPS	MADOX 115KV		183	0.0978	-0.36307	2
SPS	CARLSBAD 69KV		18	-0.26527	SPS	MUSTANG 115KV		300	0.05538	-0.32065	2
SPS	CARLSBAD 69KV		18	-0.26527	SPS	CAPROCK 115KV		8	-0.02589	-0.23938	3
SPS	CARLSBAD 69KV		18	-0.26527	SPS	CZ 69KV		39	-0.0031	-0.26217	3
SPS	CARLSBAD 69KV		18	-0.26527	SPS	HARRINGTON 230KV		1066	-0.00347	-0.2618	3
SPS	CARLSBAD 69KV		18	-0.26527	SPS	JONES 230KV		486	0.01371	-0.27898	3
SPS	CARLSBAD 69KV		18	-0.26527	SPS	LP-BRND2 69KV		124	0.01279	-0.27806	3
SPS	CARLSBAD 69KV		18	-0.26527	SPS	MUSTG5 118.0 230KV		360	0.04848	-0.31375	3
SPS	CARLSBAD 69KV		18	-0.26527	SPS	NICHOLS 230KV		147	-0.00343	-0.26184	3
SPS	CARLSBAD 69KV		18	-0.26527	SPS	PLANTX 115KV		253	-0.00558	-0.25969	3
SPS	CARLSBAD 69KV		18	-0.26527	SPS	PLANTX 230KV		189	-0.00895	-0.25632	3
SPS	CARLSBAD 69KV		18	-0.26527	SPS	SIDRCH 69KV		20	-0.0038	-0.26189	3
SPS	CARLSBAD 69KV		18	-0.26527	SPS	TOLK 230KV		1034.682	-0.0128	-0.25247	3
SPS	CARLSBAD 69KV		18	-0.26527	SPS	WILWIND 230KV		16	-0.00493	-0.26034	3
SPS	CARLSBAD 69KV		18	-0.26527	SPS	SAN JUAN 230KV		12	-0.0641	-0.20117	4
SPS	TUCUMCARI 115KV		15	-0.02589	SPS	CUNNINGHAM 115KV		110	0.10063	-0.12652	6
SPS	TUCUMCARI 115KV		15	-0.02589	SPS	CUNNINGHAM 115KV		71	0.10063	-0.12652	6
SPS	TUCUMCARI 115KV		15	-0.02589	SPS	CUNNINGHAM 230KV		306	0.10397	-0.12986	6
SPS	TUCUMCARI 115KV		15	-0.02589	SPS	MADOX 115KV		183	0.0978	-0.12369	6
SPS	NICHOLS 115KV	52.56935	-0.00338	SPS	CUNNINGHAM 230KV		306	0.10397	-0.10735	7	
SPS	NICHOLS 230KV	97	-0.00343	SPS	CUNNINGHAM 230KV		306	0.10397	-0.1074	7	
SPS	RIVERVIEW 69KV	23	-0.00338	SPS	CUNNINGHAM 230KV		306	0.10397	-0.10735	7	
SPS	TOLK 230KV	45.31775	-0.0128	SPS	CUNNINGHAM 115KV		110	0.10063	-0.11343	7	
SPS	TOLK 230KV	45.31775	-0.0128	SPS	CUNNINGHAM 115KV		71	0.10063	-0.11343	7	
SPS	TOLK 230KV	45.31775	-0.0128	SPS	CUNNINGHAM 230KV		306	0.10397	-0.11677	7	
SPS	TOLK 230KV	45.31775	-0.0128	SPS	MADOX 115KV		183	0.0978	-0.1106	7	
SPS	NICHOLS 115KV	52.56935	-0.00338	SPS	CUNNINGHAM 115KV		110	0.10063	-0.10401	8	
SPS	NICHOLS 115KV	52.56935	-0.00338	SPS	CUNNINGHAM 115KV		71	0.10063	-0.10401	8	
SPS	NICHOLS 115KV	52.56935	-0.00338	SPS	MADOX 115KV		183	0.0978	-0.10118	8	
SPS	NICHOLS 230KV	97	-0.00343	SPS	CUNNINGHAM 115KV		110	0.10063	-0.10406	8	
SPS	NICHOLS 230KV	97	-0.00343	SPS	CUNNINGHAM 115KV		71	0.10063	-0.10406	8	
SPS	NICHOLS 230KV	97	-0.00343	SPS	MADOX 115KV		183	0.0978	-0.10123	8	
SPS	RIVERVIEW 69KV	23	-0.00338	SPS	CUNNINGHAM 115KV		110	0.10063	-0.10401	8	
SPS	RIVERVIEW 69KV	23	-0.00338	SPS	CUNNINGHAM 115KV		71	0.10063	-0.10401	8	
SPS	RIVERVIEW 69KV	23	-0.00338	SPS	MADOX 115KV		183	0.0978	-0.10118	8	
SPS	LP-BRND2 69KV	108	0.01279	SPS	CUNNINGHAM 115KV		71	0.10063	-0.08784	9	
SPS	LP-BRND2 69KV	108	0.01279	SPS	CUNNINGHAM 115KV		110	0.10063	-0.08784	9	
SPS	LP-BRND2 69KV	108	0.01279	SPS	CUNNINGHAM 230KV		306	0.10397	-0.09118	9	
SPS	LP-BRND2 69KV	108	0.01279	SPS	MADOX 115KV		183	0.0978	-0.08501	9	
SPS	TUCUMCARI 115KV	15	-0.02589	SPS	MUSTANG 115KV		300	0.05538	-0.08127	10	
SPS	TUCUMCARI 115KV	15	-0.02589	SPS	MUSTG5 118.0 230KV		360	0.04848	-0.07437	11	
SPS	TOLK 230KV	45.31775	-0.0128	SPS	MUSTANG 115KV		300	0.05538	-0.06818	12	
SPS	TOLK 230KV	45.31775	-0.0128	SPS	MUSTG5 118.0 230KV		360	0.04848	-0.06128	13	
SPS	NICHOLS 115KV	52.56935	-0.00338	SPS	MUSTANG 115KV		300	0.05538	-0.05876	14	
SPS	NICHOLS 230KV	97	-0.00343	SPS	MUSTANG 115KV		300	0.05538	-0.05881	14	
SPS	RIVERVIEW 69KV	23	-0.00338	SPS	MUSTANG 115KV		300	0.05538	-0.05876	14	
SPS	NICHOLS 115KV	52.56935	-0.00338	SPS	MUSTG5 118.0 230KV		360	0.04848	-0.05186	15	
SPS	NICHOLS 230KV	97	-0.00343	SPS	MUSTG5 118.0 230KV		360	0.04848	-0.05191	15	
SPS	RIVERVIEW 69KV	23	-0.00338	SPS	MUSTG5 118.0 230KV		360	0.04848	-0.05186	15	
SPS	LP-BRND2 69KV	108	0.01279	SPS	MUSTANG 115KV		300	0.05538	-0.04259	19	
SPS	TUCUMCARI 115KV	15	-0.02589	SPS	JONES 230KV		486	0.01371	-0.0396	20	
SPS	TUCUMCARI 115KV	15	-0.02589	SPS	LP-BRND2 69KV		124	0.01279	-0.03868	21	
SPS	LP-BRND2 69KV	108	0.01279	SPS	MUSTG5 118.0 230KV		360	0.04848	-0.03569	22	

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

Upgrade: WICHITA - RENO 345KV
 Limiting Facility: HOYT - JEFFERY ENERGY CENTER 345KV CKT 1
 Direction: To->From
 Line Outage: JEFFERY ENERGY CENTER - MORRIS COUNTY 345KV CKT 1
 Flowgate: 56765567661567665677011108SP
 Date Redispatch Needed: Starting 2008 6/1 - 10/1 Until EOC
 Season Flowgate Identified: 2008 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090325	0.4	1.3
1090327	0.4	1.3
1090817	0.1	1.3
1090826	0.1	1.3
1090844	0.1	1.3
1090854	0.1	1.3
1090922	0.2	1.3
1090964	0.1	1.3
1090965	0.1	1.3
1091057	0.1	1.3

Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
WERE	BROWN COUNTY 115KV	5.5	-0.00866	WERE	JEFFREY ENERGY CENTER 345KV	960	0.59648	-0.60514	2
WERE	CHANUTE 69KV	32.163	0.01023	WERE	JEFFREY ENERGY CENTER 345KV	960	0.59648	-0.58625	2
WERE	CITY OF BURLINGTON 69KV	4.7	0.01691	WERE	JEFFREY ENERGY CENTER 345KV	960	0.59648	-0.57957	2
WERE	CITY OF ERIE 69KV	3.155999	0.01023	WERE	JEFFREY ENERGY CENTER 345KV	960	0.59648	-0.58625	2
WERE	CITY OF FREDONIA 69KV	6.697999	0.01335	WERE	JEFFREY ENERGY CENTER 345KV	960	0.59648	-0.58313	2
WERE	CITY OF GIRARD 69KV	6.108	0.00744	WERE	JEFFREY ENERGY CENTER 345KV	960	0.59648	-0.58904	2
WERE	CITY OF IOLA 69KV	13.157	0.00776	WERE	JEFFREY ENERGY CENTER 345KV	960	0.59648	-0.58872	2
WERE	CITY OF MULVANE 69KV	7.5	0.03809	WERE	JEFFREY ENERGY CENTER 345KV	960	0.59648	-0.55839	2
WERE	CITY OF NEODESHA 69KV	4.5	0.01315	WERE	JEFFREY ENERGY CENTER 345KV	960	0.59648	-0.58333	2
WERE	CITY OF WINFIELD 69KV	40	0.03311	WERE	JEFFREY ENERGY CENTER 345KV	960	0.59648	-0.56337	2
WERE	EVANS ENERGY CENTER 138KV	162	0.04241	WERE	JEFFREY ENERGY CENTER 345KV	960	0.59648	-0.55407	2
WERE	GETTY 69KV	35	0.03191	WERE	JEFFREY ENERGY CENTER 345KV	960	0.59648	-0.56457	2
WERE	GILL ENERGY CENTER 138KV	2	0.04308	WERE	JEFFREY ENERGY CENTER 345KV	960	0.59648	-0.55334	2
WERE	GILL ENERGY CENTER 69KV	8	0.04165	WERE	JEFFREY ENERGY CENTER 345KV	960	0.59648	-0.55483	2
WERE	HOLTON 115KV	19.8	-0.0829	WERE	JEFFREY ENERGY CENTER 230KV	476.8394	0.50333	-0.58623	2
WERE	HOLTON 115KV	19.8	-0.0829	WERE	JEFFREY ENERGY CENTER 345KV	960	0.59648	-0.67938	2
WERE	LATHAM1234.0 345KV	150	0.02584	WERE	JEFFREY ENERGY CENTER 345KV	960	0.59648	-0.57064	2
WERE	NEOSHO ENERGY CENTER 138KV	2	0.01047	WERE	JEFFREY ENERGY CENTER 345KV	960	0.59648	-0.58601	2
WERE	SOUTH SENECA 115KV	16.7	0.02293	WERE	JEFFREY ENERGY CENTER 345KV	960	0.59648	-0.57355	2
WERE	TECUMSEH ENERGY CENTER 69KV	41	0.0558	WERE	JEFFREY ENERGY CENTER 345KV	960	0.59648	-0.54068	2
WERE	BROWN COUNTY 115KV	5.5	-0.00866	WERE	JEFFREY ENERGY CENTER 230KV	476.8394	0.50333	-0.51199	3
WERE	CHANUTE 69KV	32.163	0.01023	WERE	JEFFREY ENERGY CENTER 230KV	476.8394	0.50333	-0.4931	3
WERE	CITY OF BURLINGTON 69KV	4.7	0.01691	WERE	JEFFREY ENERGY CENTER 230KV	476.8394	0.50333	-0.48642	3
WERE	CITY OF ERIE 69KV	3.155999	0.01023	WERE	JEFFREY ENERGY CENTER 230KV	476.8394	0.50333	-0.4931	3
WERE	CITY OF FREDONIA 69KV	6.697999	0.01335	WERE	JEFFREY ENERGY CENTER 230KV	476.8394	0.50333	-0.48998	3
WERE	CITY OF GIRARD 69KV	6.108	0.00744	WERE	JEFFREY ENERGY CENTER 230KV	476.8394	0.50333	-0.49589	3
WERE	CITY OF IOLA 69KV	13.157	0.00776	WERE	JEFFREY ENERGY CENTER 230KV	476.8394	0.50333	-0.49657	3
WERE	CITY OF MULVANE 69KV	7.5	0.03809	WERE	JEFFREY ENERGY CENTER 230KV	476.8394	0.50333	-0.46524	3
WERE	CITY OF NEODESHA 69KV	4.5	0.01315	WERE	JEFFREY ENERGY CENTER 230KV	476.8394	0.50333	-0.49018	3
WERE	CITY OF OSAGE CITY 115KV	8.85	0.09343	WERE	JEFFREY ENERGY CENTER 230KV	476.8394	0.50333	-0.4099	3
WERE	CITY OF OSAGE CITY 115KV	8.85	0.09343	WERE	JEFFREY ENERGY CENTER 345KV	960	0.59648	-0.50305	3
WERE	CITY OF WINFIELD 69KV	40	0.03311	WERE	JEFFREY ENERGY CENTER 230KV	476.8394	0.50333	-0.47022	3

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

WERE	EVANS ENERGY CENTER 138KV	162	0.04241	WERE	JEFFREY ENERGY CENTER 230KV	476.8394	0.50333	-0.46092	3
WERE	'GETTY 69KV'	35	0.03191	WERE	JEFFREY ENERGY CENTER 230KV	476.8394	0.50333	-0.47142	3
WERE	GILL ENERGY CENTER 138KV	2	0.04308	WERE	JEFFREY ENERGY CENTER 230KV	476.8394	0.50333	-0.46025	3
WERE	GILL ENERGY CENTER 69KV	8	0.04165	WERE	JEFFREY ENERGY CENTER 230KV	476.8394	0.50333	-0.46168	3
WERE	HOLTON 115KV	19.8	-0.0829	WERE	'ABILENE ENERGY CENTER 115KV'	45	0.29517	-0.37807	3
WERE	HOLTON 115KV	19.8	-0.0829	WERE	'BPU - CITY OF MCPHERSON 115KV'	165	0.30004	-0.38294	3
WERE	LATHAM1234.0 345KV	150	0.02584	WERE	JEFFREY ENERGY CENTER 230KV	476.8394	0.50333	-0.47749	3
WERE	NEOSHO ENERGY CENTER 138KV	2	0.01047	WERE	JEFFREY ENERGY CENTER 230KV	476.8394	0.50333	-0.49268	3
WERE	SOUTH SENECA 115KV	16.7	0.02293	WERE	JEFFREY ENERGY CENTER 230KV	476.8394	0.50333	-0.48004	3
WERE	ST JOHN 115KV	7.5	0.20965	WERE	JEFFREY ENERGY CENTER 345KV	960	0.59648	-0.38683	3
WERE	TECUMSEH ENERGY CENTER 69KV	41	0.0558	WERE	JEFFREY ENERGY CENTER 230KV	476.8394	0.50333	-0.44753	3
WERE	BPU - CITY OF MCPHERSON 115KV	9.00002	0.30004	WERE	JEFFREY ENERGY CENTER 345KV	960	0.59648	-0.29644	4
WERE	BROWN COUNTY 115KV	5.5	-0.00866	WERE	'ABILENE ENERGY CENTER 115KV'	45	0.29517	-0.30383	4
WERE	BROWN COUNTY 115KV	5.5	-0.00866	WERE	BPU - CITY OF MCPHERSON 115KV	165	0.30004	-0.3087	4
WERE	CHANUTE 69KV	32.163	0.01023	WERE	BPU - CITY OF MCPHERSON 115KV	165	0.30004	-0.28981	4
WERE	CITY OF ERIE 69KV	3,155,999	0.01023	WERE	BPU - CITY OF MCPHERSON 115KV	165	0.30004	-0.28981	4
WERE	CITY OF GIRARD 69KV	6.108	0.00744	WERE	BPU - CITY OF MCPHERSON 115KV	165	0.30004	-0.29264	4
WERE	CITY OF IOLA 69KV	13.157	0.00776	WERE	BPU - CITY OF MCPHERSON 115KV	165	0.30004	-0.29228	4
WERE	CLAY CENTER JUNCTION 115KV	17.044	0.27892	WERE	JEFFREY ENERGY CENTER 345KV	960	0.59648	-0.31756	4
WERE	HOLTON 115KV	19.8	-0.0829	WERE	'CLAY CENTER JUNCTION 115KV'	21.056	0.27892	-0.36182	4
WERE	HOLTON 115KV	19.8	-0.0829	WERE	'HUTCHINSON ENERGY CENTER 115KV'	240	0.27591	-0.35881	4
WERE	HUTCHINSON ENERGY CENTER 115KV	83	0.27591	WERE	JEFFREY ENERGY CENTER 345KV	960	0.59648	-0.32057	4
WERE	HUTCHINSON ENERGY CENTER 69KV	6.99998	0.27584	WERE	JEFFREY ENERGY CENTER 345KV	960	0.59648	-0.32064	4
WERE	NEOSHO ENERGY CENTER 138KV	2	0.01047	WERE	BPU - CITY OF MCPHERSON 115KV	165	0.30004	-0.28957	4
WERE	ST JOHN 115KV	7.5	0.20965	WERE	JEFFREY ENERGY CENTER 230KV	476.8394	0.50333	-0.29368	4
WERE	BROWN COUNTY 115KV	5.5	-0.00866	WERE	'CLAY CENTER JUNCTION 115KV'	21.056	0.27892	-0.28758	5
WERE	BROWN COUNTY 115KV	5.5	-0.00866	WERE	'HUTCHINSON ENERGY CENTER 115KV'	240	0.27591	-0.28457	5
WERE	CHANUTE 69KV	32.163	0.01023	WERE	'ABILENE ENERGY CENTER 115KV'	45	0.29517	-0.28494	5
WERE	CHANUTE 69KV	32.163	0.01023	WERE	'HUTCHINSON ENERGY CENTER 115KV'	240	0.27591	-0.26568	5
WERE	CITY OF BURLINGTON 69KV	4.7	0.01691	WERE	'ABILENE ENERGY CENTER 115KV'	45	0.29517	-0.27826	5
WERE	CITY OF BURLINGTON 69KV	4.7	0.01691	WERE	BPU - CITY OF MCPHERSON 115KV	165	0.30004	-0.28313	5
WERE	CITY OF BURLINGTON 69KV	4.7	0.01691	WERE	'HUTCHINSON ENERGY CENTER 115KV'	240	0.27591	-0.259	5
WERE	CITY OF ERIE 69KV	3,155,999	0.01023	WERE	'ABILENE ENERGY CENTER 115KV'	45	0.29517	-0.28494	5
WERE	CITY OF ERIE 69KV	3,155,999	0.01023	WERE	'HUTCHINSON ENERGY CENTER 115KV'	240	0.27591	-0.26568	5
WERE	CITY OF FREDONIA 69KV	6.69799	0.01335	WERE	'ABILENE ENERGY CENTER 115KV'	45	0.29517	-0.28182	5
WERE	CITY OF FREDONIA 69KV	6.69799	0.01335	WERE	BPU - CITY OF MCPHERSON 115KV	165	0.30004	-0.28669	5
WERE	CITY OF FREDONIA 69KV	6.69799	0.01335	WERE	'HUTCHINSON ENERGY CENTER 115KV'	240	0.27591	-0.26256	5
WERE	CITY OF GIRARD 69KV	6.108	0.00744	WERE	'ABILENE ENERGY CENTER 115KV'	45	0.29517	-0.28773	5
WERE	CITY OF GIRARD 69KV	6.108	0.00744	WERE	'HUTCHINSON ENERGY CENTER 115KV'	240	0.27591	-0.26847	5
WERE	CITY OF IOLA 69KV	13.157	0.00776	WERE	'ABILENE ENERGY CENTER 115KV'	45	0.29517	-0.28741	5
WERE	CITY OF IOLA 69KV	13.157	0.00776	WERE	'HUTCHINSON ENERGY CENTER 115KV'	240	0.27591	-0.26915	5
WERE	CITY OF MULVANE 69KV	7.5	0.03809	WERE	'ABILENE ENERGY CENTER 115KV'	45	0.29517	-0.25708	5
WERE	CITY OF MULVANE 69KV	7.5	0.03809	WERE	BPU - CITY OF MCPHERSON 115KV	165	0.30004	-0.28195	5
WERE	CITY OF MULVANE 69KV	7.5	0.03809	WERE	'HUTCHINSON ENERGY CENTER 115KV'	240	0.27591	-0.23782	5
WERE	CITY OF NEODESHA 69KV	4.5	0.01315	WERE	'ABILENE ENERGY CENTER 115KV'	45	0.29517	-0.28202	5
WERE	CITY OF NEODESHA 69KV	4.5	0.01315	WERE	BPU - CITY OF MCPHERSON 115KV	165	0.30004	-0.28689	5
WERE	CITY OF NEODESHA 69KV	4.5	0.01315	WERE	'HUTCHINSON ENERGY CENTER 115KV'	240	0.27591	-0.26276	5
WERE	CITY OF WINFIELD 69KV	40	0.03311	WERE	'ABILENE ENERGY CENTER 115KV'	45	0.29517	-0.26206	5
WERE	CITY OF WINFIELD 69KV	40	0.03311	WERE	BPU - CITY OF MCPHERSON 115KV	165	0.30004	-0.26693	5
WERE	CITY OF WINFIELD 69KV	40	0.03311	WERE	'HUTCHINSON ENERGY CENTER 115KV'	240	0.27591	-0.2428	5
WERE	EVANS ENERGY CENTER 138KV	162	0.04241	WERE	'ABILENE ENERGY CENTER 115KV'	45	0.29517	-0.25276	5
WERE	EVANS ENERGY CENTER 138KV	162	0.04241	WERE	BPU - CITY OF MCPHERSON 115KV	165	0.30004	-0.25763	5
WERE	'GETTY 69KV'	35	0.03191	WERE	'ABILENE ENERGY CENTER 115KV'	45	0.29517	-0.26326	5
WERE	'GETTY 69KV'	35	0.03191	WERE	BPU - CITY OF MCPHERSON 115KV	165	0.30004	-0.26813	5
WERE	'GETTY 69KV'	35	0.03191	WERE	'HUTCHINSON ENERGY CENTER 115KV'	240	0.27591	-0.244	5
WERE	GILL ENERGY CENTER 138KV	2	0.04308	WERE	'ABILENE ENERGY CENTER 115KV'	45	0.29517	-0.25209	5
WERE	GILL ENERGY CENTER 138KV	2	0.04308	WERE	BPU - CITY OF MCPHERSON 115KV	165	0.30004	-0.25696	5
WERE	GILL ENERGY CENTER 69KV	8	0.04165	WERE	'ABILENE ENERGY CENTER 115KV'	45	0.29517	-0.25352	5
WERE	GILL ENERGY CENTER 69KV	8	0.04165	WERE	BPU - CITY OF MCPHERSON 115KV	165	0.30004	-0.25939	5
WERE	LATHAM1234.0 345KV	150	0.02584	WERE	'ABILENE ENERGY CENTER 115KV'	45	0.29517	-0.26933	5
WERE	LATHAM1234.0 345KV	150	0.02584	WERE	BPU - CITY OF MCPHERSON 115KV	165	0.30004	-0.2742	5
WERE	LATHAM1234.0 345KV	150	0.02584	WERE	'HUTCHINSON ENERGY CENTER 115KV'	240	0.27591	-0.25007	5
WERE	NEOSHO ENERGY CENTER 138KV	2	0.01047	WERE	'ABILENE ENERGY CENTER 115KV'	45	0.29517	-0.2847	5
WERE	NEOSHO ENERGY CENTER 138KV	2	0.01047	WERE	'HUTCHINSON ENERGY CENTER 115KV'	240	0.27591	-0.26544	5
WERE	SMOKYHILL 230 230KV	72	0.30922	WERE	JEFFREY ENERGY CENTER 345KV	960	0.59648	-0.28726	5
WERE	SOUTH SENECA 115KV	16.7	0.02293	WERE	'ABILENE ENERGY CENTER 115KV'	45	0.29517	-0.27224	5
WERE	SOUTH SENECA 115KV	16.7	0.02293	WERE	BPU - CITY OF MCPHERSON 115KV	165	0.30004	-0.27711	5
WERE	SOUTH SENECA 115KV	16.7	0.02293	WERE	'CLAY CENTER JUNCTION 115KV'	21.056	0.27892	-0.25599	5

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: ANZIO - FORT JUNCTION SWITCHING STATION 115KV CKT 1
 Direction: To-From
 Line Outage: WR-DOUBLE12
 Flowgate: 57321573281WR-DOUBLE121211WP
 Date Redispatch Needed: 12/11/11 - 4/1/12
 Season Flowgate Identified: 2011 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090325	1.3	9.8
1090327	0.3	9.8
1090817	1.5	9.8
1090826	2.4	9.8
1090844	0.6	9.8
1090854	0.4	9.8
1090964	2.1	9.8
1090965	0.6	9.8
1091057	0.6	9.8

Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
WERE	CLAY CENTER JUNCTION 115KV	31.547	-0.53006	WERE	'CHANUTE 69KV'	44.738	0.00106	-0.53112	18
WERE	CLAY CENTER JUNCTION 115KV	31.547	-0.53006	WERE	'CITY OF AUGUSTA 69KV'	12.42	0.00083	-0.53089	18
WERE	CLAY CENTER JUNCTION 115KV	31.547	-0.53006	WERE	'CITY OF IOLA 69KV'	16.378	0.00118	-0.53124	18
WERE	CLAY CENTER JUNCTION 115KV	31.547	-0.53006	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00015	-0.52991	18
WERE	CLAY CENTER JUNCTION 115KV	31.547	-0.53006	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.00189	-0.53195	18
WERE	CLAY CENTER JUNCTION 115KV	31.547	-0.53006	WERE	'EVANS ENERGY CENTER 138KV'	195	0.00079	-0.53085	18
WERE	CLAY CENTER JUNCTION 115KV	31.547	-0.53006	WERE	'GILL ENERGY CENTER 138KV'	57.40552	-0.00064	-0.52942	18
WERE	CLAY CENTER JUNCTION 115KV	31.547	-0.53006	WERE	JEFFREY ENERGY CENTER 230KV	470	0.00965	-0.53971	18
WERE	CLAY CENTER JUNCTION 115KV	31.547	-0.53006	WERE	JEFFREY ENERGY CENTER 345KV	940	0.00074	-0.5308	18
WERE	CLAY CENTER JUNCTION 115KV	31.547	-0.53006	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	0.0085	-0.53856	18
WERE	CLAY CENTER JUNCTION 115KV	31.547	-0.53006	WERE	'LAWRENCE ENERGY CENTER 230KV'	223.5049	0.00921	-0.53927	18
WERE	CLAY CENTER JUNCTION 115KV	31.547	-0.53006	WERE	TECUMSEH ENERGY CENTER 115KV	68.00001	0.01422	-0.54428	18
WERE	CLAY CENTER JUNCTION 115KV	31.547	-0.53006	WERE	WACO 138KV	17.96	-0.00049	-0.52957	18
WERE	CLAY CENTER JUNCTION 115KV	31.547	-0.53006	WERE	'HUTCHINSON ENERGY CENTER 115KV'	40	-0.08161	-0.44845	22
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.38529	WERE	TECUMSEH ENERGY CENTER 115KV	68.00001	0.01422	-0.39951	24
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.38529	WERE	'CHANUTE 69KV'	44.738	0.00106	-0.38635	25
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.38529	WERE	'CITY OF AUGUSTA 69KV'	12.42	0.00083	-0.38612	25
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.38529	WERE	'CITY OF IOLA 69KV'	16.378	0.00118	-0.38647	25
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.38529	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00015	-0.38514	25
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.38529	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.00189	-0.38718	25
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.38529	WERE	'EVANS ENERGY CENTER 138KV'	195	0.00079	-0.38608	25

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

WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.38529	WERE	'GILL ENERGY CENTER 138KV'	57.40552	-0.00064	-0.38465	25
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.38529	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00965	-0.39494	25
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.38529	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00074	-0.38603	25
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.38529	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	0.0085	-0.39379	25
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.38529	WERE	'LAWRENCE ENERGY CENTER 230KV'	223.5049	0.00921	-0.3945	25
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.38529	WERE	'WACO 138KV'	17.96	-0.00049	-0.3848	25
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.38529	WERE	'HUTCHINSON ENERGY CENTER 115KV'	40	-0.08161	-0.30388	32
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09845	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.01422	-0.11267	87
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09845	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00965	-0.1081	91
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09845	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	0.0085	-0.10695	91
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09845	WERE	'LAWRENCE ENERGY CENTER 230KV'	223.5049	0.00921	-0.10766	91
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09845	WERE	'EVANS ENERGY CENTER 138KV'	195	0.00079	-0.09924	99
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09845	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00074	-0.09919	99
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09845	WERE	'GILL ENERGY CENTER 138KV'	57.40552	-0.00064	-0.09781	100
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.08161	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.01422	-0.09583	102
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08155	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.01422	-0.09577	102
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.08161	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00965	-0.09126	107
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08155	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00965	-0.0912	107
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.08161	WERE	'LAWRENCE ENERGY CENTER 230KV'	223.5049	0.00921	-0.09082	108
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08155	WERE	'LAWRENCE ENERGY CENTER 230KV'	223.5049	0.00921	-0.09076	108
WERE	'SMOKYHIL 230 230KV'	72	-0.07605	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.01422	-0.09027	108
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.08161	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	0.0085	-0.09011	109
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08155	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	0.0085	-0.09005	109
WERE	'SMOKYHIL 230 230KV'	72	-0.07605	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00965	-0.0857	114
WERE	'SMOKYHIL 230 230KV'	72	-0.07605	WERE	'TECUMSEH ENERGY CENTER 230KV'	223.5049	0.00921	-0.08526	115
WERE	'SMOKYHIL 230 230KV'	72	-0.07605	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	0.0085	-0.08455	116
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.08161	WERE	'EVANS ENERGY CENTER 138KV'	195	0.00079	-0.0824	119
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.08161	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00074	-0.08235	119
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08155	WERE	'EVANS ENERGY CENTER 138KV'	195	0.00079	-0.08234	119
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08155	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00074	-0.08229	119
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.08161	WERE	'GILL ENERGY CENTER 138KV'	57.40552	-0.00064	-0.08097	121
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08155	WERE	'GILL ENERGY CENTER 138KV'	57.40552	-0.00064	-0.08091	121
WERE	'SMOKYHIL 230 230KV'	72	-0.07605	WERE	'EVANS ENERGY CENTER 138KV'	195	0.00079	-0.07684	127
WERE	'SMOKYHIL 230 230KV'	72	-0.07605	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00074	-0.07679	127
WERE	'SMOKYHIL 230 230KV'	72	-0.07605	WERE	'GILL ENERGY CENTER 138KV'	57.40552	-0.00064	-0.07541	130

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: ANZIO - FORT JUNCTION SWITCHING STATION 115KV CKT 1
 Direction: To-From
 Line Outage: WR-DOUBLE12
 Flowgate: 57321573281WR-DOUBLE122207FA
 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	0.8	2.2
1090964	1.1	2.2
1090965	0.4	2.2

Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
WERE	'CLAY CENTER JUNCTION 115KV'	30.5	-0.52995	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00978	-0.53973	4
WERE	'CLAY CENTER JUNCTION 115KV'	30.5	-0.52995	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00083	-0.53078	4
WERE	'CLAY CENTER JUNCTION 115KV'	30.5	-0.52995	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.01439	-0.54434	4
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09844	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.01439	-0.11283	20
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09844	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00978	-0.10622	21
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09844	WERE	'LAWRENCE ENERGY CENTER 230KV'	230.5392	0.00951	-0.10795	21
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09844	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.00192	-0.10036	22
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09844	WERE	'CHANUTE 69KV'	56.296	0.00107	-0.09951	23
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09844	WERE	'CITY OF AUGUSTA 69KV'	19.63601	0.00085	-0.09929	23
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09844	WERE	'CITY OF IOLA 69KV'	24.256	0.00118	-0.09962	23
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09844	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00012	-0.09832	23
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09844	WERE	'EVANS ENERGY CENTER 138KV'	189.2432	0.00083	-0.09927	23
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09844	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00083	-0.09927	23
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.09844	WERE	'WACO 138KV'	17.946	-0.00046	-0.09798	23
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.08162	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.01439	-0.09601	23
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08159	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.01439	-0.09598	23
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.08162	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00978	-0.0914	25
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.08162	WERE	'LAWRENCE ENERGY CENTER 230KV'	230.5392	0.00951	-0.09113	25
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08159	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00978	-0.09137	25
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08159	WERE	'LAWRENCE ENERGY CENTER 230KV'	230.5392	0.00951	-0.09111	25
WERE	'SMOKYHIL 230 230KV'	72	-0.07606	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.01439	-0.09045	25
WERE	'SMOKYHIL 230 230KV'	72	-0.07606	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.00978	-0.08584	26
WERE	'SMOKYHIL 230 230KV'	72	-0.07606	WERE	'LAWRENCE ENERGY CENTER 230KV'	230.5392	0.00951	-0.08557	26
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.08162	WERE	'CHANUTE 69KV'	56.296	0.00107	-0.08269	27
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.08162	WERE	'CITY OF AUGUSTA 69KV'	19.63601	0.00085	-0.08247	27
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.08162	WERE	'CITY OF IOLA 69KV'	24.256	0.00118	-0.08228	27
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.08162	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.00192	-0.08354	27
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.08162	WERE	'EVANS ENERGY CENTER 138KV'	189.2432	0.00083	-0.08245	27
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.08162	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00083	-0.08245	27
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08159	WERE	'CHANUTE 69KV'	56.296	0.00107	-0.08266	27
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08159	WERE	'CITY OF AUGUSTA 69KV'	19.63601	0.00085	-0.08244	27
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08159	WERE	'CITY OF IOLA 69KV'	24.256	0.00118	-0.08277	27
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08159	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.00192	-0.08351	27
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08159	WERE	'EVANS ENERGY CENTER 138KV'	189.2432	0.00083	-0.08242	27
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08159	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00083	-0.08242	27
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.08162	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00012	-0.0815	28
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.08162	WERE	'WACO 138KV'	17.946	-0.00046	-0.08116	28
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08159	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00012	-0.08147	28
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.08159	WERE	'WACO 138KV'	17.946	-0.00046	-0.08113	28
WERE	'SMOKYHIL 230 230KV'	72	-0.07606	WERE	'CITY OF AUGUSTA 69KV'	19.63601	0.00085	-0.07691	29
WERE	'SMOKYHIL 230 230KV'	72	-0.07606	WERE	'CITY OF IOLA 69KV'	24.256	0.00118	-0.07724	29
WERE	'SMOKYHIL 230 230KV'	72	-0.07606	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.00192	-0.07798	29
WERE	'SMOKYHIL 230 230KV'	72	-0.07606	WERE	'EVANS ENERGY CENTER 138KV'	189.2432	0.00083	-0.07689	29
WERE	'SMOKYHIL 230 230KV'	72	-0.07606	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.00083	-0.07689	29
WERE	'SMOKYHIL 230 230KV'	72	-0.07606	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00012	-0.07594	30
WERE	'SMOKYHIL 230 230KV'	72	-0.07606	WERE	'WACO 138KV'	17.946	-0.00046	-0.0756	30

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

Reservation	Relief Amount	Aggregate Relief Amount
1090817	0.8	2.2
1090964	1.1	2.2
1090965	0.4	2.2

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)
1086655		1.6	2.7						
1090964		0.8	2.7						
1090965		0.3	2.7						
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.2959	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.02374	-0.31964	8
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.2959	WERE	CHANUTE 69KV'	35.344	0.00152	-0.29742	9
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.2959	WERE	CITY OF AUGUSTA 69KV'	17.25201	0.00028	-0.29618	9
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.2959	WERE	CITY OF BURLINGTON 69KV'	4.8	0.00296	-0.29886	9
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.2959	WERE	CITY OF IOLA 69KV'	13.978	0.0018	-0.2977	9
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.2959	WERE	CITY OF MULVANE 69KV'	3.694	-0.00092	-0.29498	9
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.2959	WERE	CITY OF WELLINGTON 69KV'	24	-0.00177	-0.29413	9
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.2959	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.00296	-0.29886	9
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.2959	WERE	EVANS ENERGY CENTER 138KV'	25.9436	0.00012	-0.29602	9
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.2959	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.01793	-0.31383	9
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.2959	WERE	LAWRENCE ENERGY CENTER 230KV'	130.178	0.01002	-0.30592	9
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.2959	WERE	WACO 138KV'	17.953	-0.0029	-0.293	9
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.23866	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.01793	-0.25659	10
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.23866	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.02374	-0.2624	10
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.23855	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.01793	-0.25648	10
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.23855	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.02374	-0.26229	10
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.23866	WERE	CHANUTE 69KV'	35.344	0.00152	-0.24018	11
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.23866	WERE	CITY OF AUGUSTA 69KV'	17.25201	0.00028	-0.23994	11
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.23866	WERE	CITY OF BURLINGTON 69KV'	4.8	0.00296	-0.24162	11
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.23866	WERE	CITY OF IOLA 69KV'	13.978	0.0018	-0.24046	11
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.23866	WERE	CITY OF MULVANE 69KV'	3.694	-0.00092	-0.23774	11
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.23866	WERE	CITY OF WELLINGTON 69KV'	24	-0.00177	-0.23689	11
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.23866	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.00296	-0.24162	11
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.23866	WERE	EVANS ENERGY CENTER 138KV'	25.9436	0.00012	-0.23878	11
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.23866	WERE	LAWRENCE ENERGY CENTER 230KV'	130.178	0.01002	-0.24868	11
WERE	HUTCHINSON ENERGY CENTER 115KV'	423	-0.23866	WERE	WACO 138KV'	17.953	-0.0029	-0.23576	11
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.23855	WERE	CHANUTE 69KV'	35.344	0.00152	-0.24007	11
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.23855	WERE	CITY OF AUGUSTA 69KV'	17.25201	0.00028	-0.23883	11
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.23855	WERE	CITY OF BURLINGTON 69KV'	4.8	0.00296	-0.24151	11
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.23855	WERE	CITY OF IOLA 69KV'	13.978	0.0018	-0.24035	11
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.23855	WERE	CITY OF MULVANE 69KV'	3.694	-0.00092	-0.23763	11
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.23855	WERE	CITY OF WELLINGTON 69KV'	24	-0.00177	-0.23678	11
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.23855	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.00296	-0.24151	11
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.23855	WERE	EVANS ENERGY CENTER 138KV'	25.9436	0.00012	-0.23867	11
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.23855	WERE	LAWRENCE ENERGY CENTER 230KV'	130.178	0.01002	-0.24857	11
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.23855	WERE	WACO 138KV'	17.953	-0.0029	-0.23585	11
WERE	ST JOHN 115KV'	7.5	-0.13548	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.01793	-0.15341	17
WERE	ST JOHN 115KV'	7.5	-0.13548	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.02374	-0.15922	17
WERE	ST JOHN 115KV'	7.5	-0.13548	WERE	LAWRENCE ENERGY CENTER 230KV'	130.178	0.01002	-0.1455	18
WERE	ST JOHN 115KV'	7.5	-0.13548	WERE	CHANUTE 69KV'	35.344	0.00152	-0.137	19
WERE	ST JOHN 115KV'	7.5	-0.13548	WERE	CITY OF IOLA 69KV'	13.978	0.0018	-0.13728	19
WERE	ST JOHN 115KV'	7.5	-0.13548	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.00296	-0.13844	19
WERE	ST JOHN 115KV'	7.5	-0.13548	WERE	CITY OF AUGUSTA 69KV'	17.25201	0.00028	-0.13576	20
WERE	ST JOHN 115KV'	7.5	-0.13548	WERE	CITY OF WELLINGTON 69KV'	24	-0.00177	-0.13371	20
WERE	ST JOHN 115KV'	7.5	-0.13548	WERE	EVANS ENERGY CENTER 138KV'	25.9436	0.00012	-0.1356	20
WERE	ST JOHN 115KV'	7.5	-0.13548	WERE	WACO 138KV'	17.953	-0.0029	-0.13258	20
WEPL	A. M. MULLERGEREN GENERATOR 115KV'	63	-0.12115	WEPL	GRAY COUNTY WIND FARM 115KV'	73	-0.0734	-0.04775	56

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	1.1	2.0
1090817	0.3	2.0
1090964	0.4	2.0
1090965	0.1	2.0

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	-0.28393	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.02006	-0.30399	7
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.28393	WERE	CLAY CENTER JUNCTION 115KV'	11.825	-0.10176	-0.18217	11
WERE	ST JOHN 115KV'	7.5	-0.11371	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.02006	-0.13377	15
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.28393	WERE	ABILENE ENERGY CENTER 115KV'	19.52661	-0.16101	-0.12292	16
WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.22228	WERE	CLAY CENTER JUNCTION 115KV'	11.825	-0.10176	-0.12052	17
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.22217	WERE	CLAY CENTER JUNCTION 115KV'	11.825	-0.10176	-0.12041	17
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.28393	WERE	HUTCHINSON ENERGY CENTER 115KV'	80.00001	-0.22228	-0.06165	32
WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.22228	WERE	ABILENE ENERGY CENTER 115KV'	19.52661	-0.16101	-0.06127	33
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.22217	WERE	ABILENE ENERGY CENTER 115KV'	19.52661	-0.16101	-0.06116	33

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: 57368573811568725687313211WP
 Date Redispatch Needed: 12/1/11 - 4/1/12
 Season Flowgate Identified: 2011 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount
1086655	1.1	5.9
1090325	0.4	5.9
1090327	0.1	5.9
1090817	0.4	5.9
1090826	0.7	5.9
1090844	0.2	5.9
1090854	0.1	5.9
1090917	0.2	5.9
1090919	0.1	5.9
1090920	0.4	5.9
1090921	0.1	5.9
1090922	1.2	5.9
1090964	0.6	5.9
1090965	0.2	5.9
1091057	0.2	5.9

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	-0.28379	WERE	SMOKYHIL 230 230KV'	50	0.06275	-0.34654	17
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.28379	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.01439	-0.29818	20

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

WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28379	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02008	-0.30387	20
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28379	WERE	'LAWRENCE ENERGY CENTER 230KV'	208.5043	0.0077	-0.29149	20
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28379	WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.00699	-0.29078	20
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28379	WERE	'CHANUTE 69KV'	44.738	0.00117	-0.28496	21
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28379	WERE	'CITY OF AUGUSTA 69KV'	12.42	0.00007	-0.28386	21
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28379	WERE	'CITY OF IOLA 69KV'	16.378	0.00141	-0.2852	21
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28379	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00157	-0.28222	21
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28379	WERE	'EVANS ENERGY CENTER 138KV'	110	-0.00007	-0.28272	21
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28379	WERE	'WACO 138KV'	17.96	-0.00253	-0.28126	21
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.22213	WERE	'SMOKYHIL 230 230KV'	50	0.06275	-0.28488	21
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2219	WERE	'SMOKYHIL 230 230KV'	50	0.06275	-0.28465	21
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.22213	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02008	-0.24221	24
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.22213	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01439	-0.23652	25
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2219	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01439	-0.23629	25
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2219	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02008	-0.24198	25
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.22213	WERE	'LAWRENCE ENERGY CENTER 230KV'	208.5043	0.0077	-0.22983	26
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.22213	WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.00699	-0.22912	26
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2219	WERE	'LAWRENCE ENERGY CENTER 230KV'	208.5043	0.0077	-0.2296	26
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2219	WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.00699	-0.22889	26
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16095	WERE	'SMOKYHIL 230 230KV'	50	0.06275	-0.2237	27
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.22213	WERE	'CHANUTE 69KV'	44.738	0.00117	-0.2233	27
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.22213	WERE	'CITY OF AUGUSTA 69KV'	12.42	0.00007	-0.2222	27
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.22213	WERE	'CITY OF IOLA 69KV'	16.378	0.00141	-0.22354	27
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.22213	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00157	-0.22056	27
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.22213	WERE	'EVANS ENERGY CENTER 138KV'	110	-0.00007	-0.22206	27
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.22213	WERE	'WACO 138KV'	17.96	-0.00253	-0.2198	27
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2219	WERE	'CHANUTE 69KV'	44.738	0.00117	-0.22307	27
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2219	WERE	'CITY OF AUGUSTA 69KV'	12.42	0.00007	-0.22197	27
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2219	WERE	'CITY OF IOLA 69KV'	16.378	0.00141	-0.22331	27
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2219	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00157	-0.22033	27
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2219	WERE	'EVANS ENERGY CENTER 138KV'	110	-0.00007	-0.22183	27
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.2219	WERE	'WACO 138KV'	17.96	-0.00253	-0.21937	27
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16095	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02008	-0.18103	33
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16095	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01439	-0.17534	34
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16095	WERE	'LAWRENCE ENERGY CENTER 230KV'	208.5043	0.0077	-0.16865	35
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16095	WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.00699	-0.16794	35
WERE	'CLAY CENTER JUNCTION 115KV'	31.547	-0.10171	WERE	'SMOKYHIL 230 230KV'	50	0.06275	-0.16446	36
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16095	WERE	'CITY OF AUGUSTA 69KV'	12.42	0.00007	-0.16102	37
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16095	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00157	-0.15938	37
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16095	WERE	'EVANS ENERGY CENTER 138KV'	110	-0.00007	-0.16088	37
WERE	'ABILENE ENERGY CENTER 115KV'	66	-0.16095	WERE	'WACO 138KV'	17.96	-0.00253	-0.15942	37
WERE	'CLAY CENTER JUNCTION 115KV'	31.547	-0.10171	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02008	-0.12179	49
WERE	'CLAY CENTER JUNCTION 115KV'	31.547	-0.10171	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01439	-0.1161	51
WERE	'CLAY CENTER JUNCTION 115KV'	31.547	-0.10171	WERE	'LAWRENCE ENERGY CENTER 230KV'	208.5043	0.0077	-0.10941	54
WERE	'CLAY CENTER JUNCTION 115KV'	31.547	-0.10171	WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.00699	-0.1087	55
WERE	'CLAY CENTER JUNCTION 115KV'	31.547	-0.10171	WERE	'EVANS ENERGY CENTER 138KV'	110	-0.00007	-0.10164	58
WERE	'GILL ENERGY CENTER 138KV'	218	-0.00281	WERE	'SMOKYHIL 230 230KV'	50	0.06275	-0.06556	91
WERE	'GILL ENERGY CENTER 69KV'	118	-0.00211	WERE	'SMOKYHIL 230 230KV'	50	0.06275	-0.06486	91
WERE	'CITY OF WINFIELD 69KV'	40	-0.00098	WERE	'SMOKYHIL 230 230KV'	50	0.06275	-0.06373	93
WERE	'EVANS ENERGY CENTER 138KV'	837	-0.00007	WERE	'SMOKYHIL 230 230KV'	50	0.06275	-0.06282	94
WERE	'GETTY 69KV'	35	0.00026	WERE	'SMOKYHIL 230 230KV'	50	0.06275	-0.06249	95
WERE	'LATHAM1234.0 345KV'	150	0.00092	WERE	'SMOKYHIL 230 230KV'	50	0.06275	-0.06183	96
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.0112	WERE	'SMOKYHIL 230 230KV'	50	0.06275	-0.06163	96
WERE	'TECUMSEH ENERGY CENTER 115KV'	143	0.00699	WERE	'SMOKYHIL 230 230KV'	50	0.06275	-0.05576	106
WERE	'TECUMSEH ENERGY CENTER 69KV'	41	0.00691	WERE	'SMOKYHIL 230 230KV'	50	0.06275	-0.05584	106
WERE	'LAWRENCE ENERGY CENTER 115KV'	138	0.00744	WERE	'SMOKYHIL 230 230KV'	50	0.06275	-0.05531	107
WERE	'LAWRENCE ENERGY CENTER 230KV'	60.4957	0.0077	WERE	'SMOKYHIL 230 230KV'	50	0.06275	-0.05503	108

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: 57372573741568725687311211WP
 Date Redispatch Needed: 12/1/11 - 4/1/12
 Season Flowgate Identified: 2011 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090310	0.3	48.7
1090325	4.9	48.7
1090327	1.2	48.7
1090812	4.8	48.7
1090826	7.7	48.7
1090844	1.9	48.7
1090854	1.1	48.7
1090917	1.6	48.7
1090919	0.4	48.7
1090920	3.3	48.7
1090921	0.8	48.7
1090922	10.2	48.7
1090964	6.7	48.7
1090965	1.9	48.7
1091057	1.9	48.7

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	-0.50445	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02947	-0.53392	91
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50445	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03063	-0.53508	91
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50445	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.02215	-0.52266	92
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50445	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	0.01811	-0.52256	93
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50445	WERE	'LAWRENCE ENERGY CENTER 230KV'	223.5049	0.01909	-0.52354	93
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50445	WERE	'EVANS ENERGY CENTER 138KV'	195	0.00054	-0.50499	96
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50445	WERE	'GILL ENERGY CENTER 138KV'	57.40552	-0.00472	-0.49973	97
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.39903	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03063	-0.42966	113
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39864	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03063	-0.42927	113
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.39903	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02947	-0.4285	114
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39864	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02947	-0.42811	114
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.39903	WERE	'LAWRENCE ENERGY CENTER 230KV'	223.5049	0.01909	-0.41812	116
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.39903	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.02215	-0.42118	116
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39864	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.02215	-0.42079	116
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.39903	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	0.01811	-0.41714	117
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39864	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	0.01811	-0.41675	117
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39864	WERE	'LAWRENCE ENERGY CENTER 230KV'	223.5049	0.01909	-0.41773	117
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.39903	WERE	'EVANS ENERGY CENTER 138KV'	195	0.00054	-0.39957	122
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39864	WERE	'EVANS ENERGY CENTER 138KV'	195	0.00054	-0.39918	122
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.39903	WERE	'GILL ENERGY CENTER 138KV'	57.40552	-0.00472	-0.39431	124
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39864	WERE	'GILL ENERGY CENTER 138KV'	57.40552	-0.00472	-0.39392	124

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

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

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									
1090964	6.8	8.8									
1090965	1.9	8.8									
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	-0.52193	WERE	JEFFREY ENERGY CENTER 230KV	470	0.0347	-0.55663	16		
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.52193	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03601	-0.55794	16		
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.52193	WERE	LAWRENCE ENERGY CENTER 230KV	130.178	0.02275	-0.54468	16		
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.52193	WERE	CHANUTE 69KV	35.344	0.00317	-0.5251	17		
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.52193	WERE	CITY OF AUGUSTA 69KV	17.25201	0.00114	-0.52307	17		
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.52193	WERE	CITY OF IOLA 69KV	13.978	0.00368	-0.52561	17		
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.52193	WERE	CITY OF WELLINGTON 69KV	24	-0.00271	-0.51922	17		
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.52193	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.97	0.006	-0.52793	17		
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.52193	WERE	EVANS ENERGY CENTER 138KV	25.9436	0.00088	-0.52281	17		
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.52193	WERE	WACO 138KV	17.953	-0.00465	-0.51728	17		
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.42289	WERE	JEFFREY ENERGY CENTER 230KV	470	0.0347	-0.45759	20		
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.42289	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03601	-0.4589	20		
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.42289	WERE	LAWRENCE ENERGY CENTER 230KV	130.178	0.02275	-0.44564	20		
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.4227	WERE	JEFFREY ENERGY CENTER 230KV	470	0.0347	-0.4574	20		
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.4227	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03601	-0.45871	20		
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.4227	WERE	LAWRENCE ENERGY CENTER 230KV	130.178	0.02275	-0.44545	20		
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.42289	WERE	CHANUTE 69KV	35.344	0.00317	-0.42606	21		
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.42289	WERE	CITY OF AUGUSTA 69KV	17.25201	0.00114	-0.42403	21		
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.42289	WERE	CITY OF IOLA 69KV	13.978	0.00368	-0.42657	21		
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.42289	WERE	CITY OF WELLINGTON 69KV	24	-0.00271	-0.42018	21		
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.42289	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.97	0.006	-0.42889	21		
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.42289	WERE	EVANS ENERGY CENTER 138KV	25.9436	0.00088	-0.42377	21		
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.42289	WERE	WACO 138KV	17.953	-0.00465	-0.41824	21		
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.4227	WERE	CHANUTE 69KV	35.344	0.00317	-0.42587	21		
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.4227	WERE	CITY OF AUGUSTA 69KV	17.25201	0.00114	-0.42384	21		
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.4227	WERE	CITY OF IOLA 69KV	13.978	0.00368	-0.42638	21		
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.4227	WERE	CITY OF WELLINGTON 69KV	24	-0.00271	-0.41999	21		
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.4227	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.97	0.006	-0.4287	21		
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.4227	WERE	EVANS ENERGY CENTER 138KV	25.9436	0.00088	-0.42358	21		
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.4227	WERE	WACO 138KV	17.953	-0.00465	-0.41805	21		
WEPL	A. M. MULLERGREEN GENERATOR 115KV	83	-0.22216	WEPL	GRAY COUNTY WIND FARM 115KV	73	-0.1362	-0.08596	104		
WERE	GILL ENERGY CENTER 138KV	218	-0.00528	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03601	-0.04129	217		
WERE	GILL ENERGY CENTER 138KV	218	-0.00528	WERE	JEFFREY ENERGY CENTER 230KV	470	0.0347	-0.03998	224		
WERE	GILL ENERGY CENTER 69KV	118	-0.00373	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03601	-0.03974	226		
WERE	GILL ENERGY CENTER 69KV	118	-0.00373	WERE	JEFFREY ENERGY CENTER 230KV	470	0.0347	-0.03843	234		
WERE	EVANS ENERGY CENTER 138KV	767.0564	0.00088	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03601	-0.03513	255		
WERE	EVANS ENERGY CENTER 138KV	767.0564	0.00088	WERE	JEFFREY ENERGY CENTER 230KV	470	0.0347	-0.03382	265		
WERE	LATHAM1234.0 345KV	150	0.00293	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03601	-0.03308	271		
WERE	LATHAM1234.0 345KV	150	0.00293	WERE	JEFFREY ENERGY CENTER 230KV	470	0.0347	-0.03177	283		

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									
1090310	0.1	6.5									
1090817	2.2	6.5									
1090964	3.2	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	-0.50469	WERE	JEFFREY ENERGY CENTER 230KV	470	0.02953	-0.53422	12		
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50469	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03066	-0.53535	12		
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50469	WERE	TECUMSEH ENERGY CENTER 115KV	108	0.02222	-0.52691	12		
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50469	WERE	CHANUTE 69KV	56.296	0.00259	-0.50728	13		
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50469	WERE	CITY OF AUGUSTA 69KV	19.97	0.00079	-0.50548	13		
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50469	WERE	CITY OF BURLINGTON 69KV	4.8	0.00495	-0.50964	13		
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50469	WERE	CITY OF IOLA 69KV	24.256	0.00303	-0.50772	13		
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50469	WERE	CITY OF MULVANE 69KV	4.891	-0.00108	-0.50361	13		
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50469	WERE	CITY OF WELLINGTON 69KV	20	-0.00243	-0.50226	13		
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50469	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.96	0.00495	-0.50964	13		
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50469	WERE	EVANS ENERGY CENTER 138KV	189.2432	0.00057	-0.50526	13		
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50469	WERE	LAWRENCE ENERGY CENTER 230KV	230.5392	0.01924	-0.52393	13		
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50469	WERE	WACO 138KV	17.946	-0.00417	-0.50052	13		
WERE	HUTCHINSON ENERGY CENTER 115KV	343	-0.3993	WERE	JEFFREY ENERGY CENTER 230KV	470	0.02953	-0.42883	15		
WERE	HUTCHINSON ENERGY CENTER 115KV	343	-0.3993	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03066	-0.42996	15		
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39911	WERE	JEFFREY ENERGY CENTER 230KV	470	0.02953	-0.42864	15		
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39911	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03066	-0.42977	15		
WERE	HUTCHINSON ENERGY CENTER 115KV	343	-0.3993	WERE	CHANUTE 69KV	56.296	0.00259	-0.40189	16		
WERE	HUTCHINSON ENERGY CENTER 115KV	343	-0.3993	WERE	CITY OF AUGUSTA 69KV	19.63601	0.00079	-0.40009	16		
WERE	HUTCHINSON ENERGY CENTER 115KV	343	-0.3993	WERE	CITY OF IOLA 69KV	24.256	0.00303	-0.40233	16		
WERE	HUTCHINSON ENERGY CENTER 115KV	343	-0.3993	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.96	0.00495	-0.40425	16		
WERE	HUTCHINSON ENERGY CENTER 115KV	343	-0.3993	WERE	EVANS ENERGY CENTER 138KV	189.2432	0.00057	-0.39987	16		
WERE	HUTCHINSON ENERGY CENTER 115KV	343	-0.3993	WERE	LAWRENCE ENERGY CENTER 230KV	230.5392	0.01924	-0.41854	16		
WERE	HUTCHINSON ENERGY CENTER 115KV	343	-0.3993	WERE	TECUMSEH ENERGY CENTER 115KV	108	0.02222	-0.42152	16		
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39911	WERE	CHANUTE 69KV	56.296	0.00259	-0.4017	16		
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39911	WERE	CITY OF AUGUSTA 69KV	19.63601	0.00079	-0.39999	16		
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39911	WERE	CITY OF IOLA 69KV	24.256	0.00303	-0.40214	16		
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39911	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.96	0.00495	-0.40406	16		
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39911	WERE	EVANS ENERGY CENTER 138KV	189.2432	0.00057	-0.39968	16		
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39911	WERE	LAWRENCE ENERGY CENTER 230KV	230.5392	0.01924	-0.41835	16		
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39911	WERE	TECUMSEH ENERGY CENTER 115KV	108	0.02222	-0.42133	16		
WERE	HUTCHINSON ENERGY CENTER 115KV	343	-0.3993	WERE	CITY OF WELLINGTON 69KV	20	-0.00243	-0.39687	17		
WERE	HUTCHINSON ENERGY CENTER 115KV	343	-0.3993	WERE	WACO 138KV	17.946	-0.00417	-0.39513	17		
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39911	WERE	CITY OF WELLINGTON 69KV	20	-0.00243	-0.39688	17		
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39911	WERE	WACO 138KV	17.946	-0.00417	-0.39494	17		
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50469	WERE	HUTCHINSON ENERGY CENTER 115KV	40	-0.3993	-0.10539	62		
WEPL	A. M. MULLERGREEN GENERATOR 115KV	83	-0.17551	WEPL	GRAY COUNTY WIND FARM 115KV	60	-0.11056	-0.06495	101		
WERE	GILL ENERGY CENTER 138KV	218	-0.0047	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03066	-0.03536	186		
WERE	GILL ENERGY CENTER 138KV	218	-0.0047	WERE	JEFFREY ENERGY CENTER 230KV	470	0.02953	-0.03423	192		
WERE	GILL ENERGY CENTER 69KV	118	-0.00337	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03066	-0.03403	193		
WERE	GILL ENERGY CENTER 69KV	118	-0.00337	WERE	JEFFREY ENERGY CENTER 230KV	470	0.02953	-0.0329	200		
WERE	EVANS ENERGY CENTER 138KV	603.7568	0.00057	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03066	-0.03009	219		

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: 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
1090310	0.1	4.9
1090817	1.7	4.9
1090964	2.4	4.9
1090965	0.7	4.9

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	-0.50466	WERE	ABILENE ENERGY CENTER 115KV	19.52661	0.11717	-0.62183	8
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50466	WERE	CLAY CENTER JUNCTION 115KV	11.825	0.08672	-0.59138	8
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50466	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03069	-0.53535	9
WERE	HUTCHINSON ENERGY CENTER 115KV	303	-0.39927	WERE	ABILENE ENERGY CENTER 115KV	19.52661	0.11717	-0.51644	10
WERE	HUTCHINSON ENERGY CENTER 115KV	303	-0.39927	WERE	CLAY CENTER JUNCTION 115KV	11.825	0.08672	-0.48999	10
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39908	WERE	ABILENE ENERGY CENTER 115KV	19.52661	0.11717	-0.51625	10
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39908	WERE	CLAY CENTER JUNCTION 115KV	11.825	0.08672	-0.4858	10
WERE	ST JOHN 115KV	7.5	-0.21392	WERE	CLAY CENTER JUNCTION 115KV	11.825	0.08672	-0.30064	16
WERE	ST JOHN 115KV	7.5	-0.21392	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03069	-0.24461	20
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50466	WERE	HUTCHINSON ENERGY CENTER 115KV	80.00001	-0.39927	-0.10539	47
WERE	GILL ENERGY CENTER 138KV	118	-0.00468	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03069	-0.03537	140
WERE	GILL ENERGY CENTER 138KV	118	-0.00468	WERE	JEFFREY ENERGY CENTER 230KV	470	0.02955	-0.03423	145
WERE	GILL ENERGY CENTER 69KV	118	-0.00335	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03069	-0.03404	145
WERE	GILL ENERGY CENTER 69KV	118	-0.00335	WERE	JEFFREY ENERGY CENTER 230KV	470	0.02955	-0.0329	151
WERE	EVANS ENERGY CENTER 138KV	488	0.00059	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03069	-0.0301	165

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

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

Reservation	Relief Amount	Aggregate Relief Amount
1090310	0.3	14.4
1090817	5.0	14.4
1090964	7.0	14.4
1090965	2.0	14.4

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	-0.50463	WERE	JEFFREY ENERGY CENTER 230KV	470	0.02957	-0.5342	27
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50463	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03071	-0.53534	27
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50463	WERE	LAWRENCE ENERGY CENTER 230KV	170.2826	0.01929	-0.52392	28
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50463	WERE	CHANUTE 69KV	34.818	0.00262	-0.50725	29
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50463	WERE	CITY OF AUGUSTA 69KV	14.628	0.00083	-0.50546	29
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50463	WERE	CITY OF IOLA 69KV	14.565	0.00306	-0.50789	29
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50463	WERE	CITY OF WELLINGTON 69KV	20	-0.00239	-0.50224	29
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50463	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.95	0.00499	-0.50962	29
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50463	WERE	EVANS ENERGY CENTER 138KV	55	0.00061	-0.50524	29
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50463	WERE	WACO 138KV	17.93	-0.00412	-0.50051	29
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.39925	WERE	JEFFREY ENERGY CENTER 230KV	470	0.02957	-0.42882	34
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.39925	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03071	-0.42996	34
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39905	WERE	JEFFREY ENERGY CENTER 230KV	470	0.02957	-0.42862	34
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39905	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03071	-0.42976	34
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.39925	WERE	LAWRENCE ENERGY CENTER 230KV	170.2826	0.01929	-0.41854	35
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39905	WERE	LAWRENCE ENERGY CENTER 230KV	170.2826	0.01929	-0.41834	35
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.39925	WERE	CITY OF AUGUSTA 69KV	14.628	0.00083	-0.40008	36
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.39925	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.95	0.00499	-0.40424	36
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.39925	WERE	EVANS ENERGY CENTER 138KV	55	0.00061	-0.39986	36
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39905	WERE	CITY OF AUGUSTA 69KV	14.628	0.00083	-0.39988	36
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39905	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.95	0.00499	-0.40404	36
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39905	WERE	EVANS ENERGY CENTER 138KV	55	0.00061	-0.39966	36
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.39925	WERE	CITY OF WELLINGTON 69KV	20	-0.00239	-0.39686	37
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.39925	WERE	WACO 138KV	17.93	-0.00412	-0.39513	37
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39905	WERE	CITY OF WELLINGTON 69KV	20	-0.00239	-0.39666	37
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39905	WERE	WACO 138KV	17.93	-0.00412	-0.39493	37
WERE	GILL ENERGY CENTER 138KV	218	-0.00466	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03071	-0.03537	411
WERE	GILL ENERGY CENTER 138KV	218	-0.00466	WERE	JEFFREY ENERGY CENTER 230KV	470	0.02957	-0.03423	425
WERE	EVANS ENERGY CENTER 138KV	738	0.00061	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03071	-0.0301	483

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

Upgrade: WICHITA - RENO 345KV
 Limiting Facility: NORTH AMERICAN PHILIPS - NORTH AMERICAN PHILIPS JUNCTION (SOUTH) 115KV CKT 1
 Direction: From-> To
 Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1
 Flowgate: 57372573741568725687312208WP
 Date Redispatch Needed: Starting 2008 12/1 - 4/1 Until EOC
 Season Flowgate Identified: 2008 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090310	0.1	14.8
1090325	1.5	14.8
1090327	0.4	14.8
1090817	1.4	14.8
1090826	2.3	14.8
1090844	0.6	14.8
1090854	0.4	14.8
1090917	0.5	14.8
1090919	0.2	14.8
1090920	1.1	14.8
1090921	0.3	14.8
1090922	3.0	14.8
1090964	1.9	14.8
1090965	0.6	14.8
1091057	0.6	14.8

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	-0.50453	WERE	JEFFREY ENERGY CENTER 230KV	470	0.0295	-0.53403	28
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50453	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03066	-0.53519	28
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50453	WERE	LAWRENCE ENERGY CENTER 230KV	141.9337	0.01926	-0.52379	28
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50453	WERE	SMOKYHIL 230 230KV	50	0.03122	-0.53575	28
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50453	WERE	CHANUTE 69KV	34.903	0.00262	-0.50715	29
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50453	WERE	CITY OF AUGUSTA 69KV	15.285	0.00077	-0.50583	29
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50453	WERE	CITY OF IOLA 69KV	19.902	0.00308	-0.50761	29
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50453	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.61	0.0049	-0.50943	29
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50453	WERE	EVANS ENERGY CENTER 138KV	55	0.00054	-0.50507	29
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50453	WERE	CITY OF WELLINGTON 69KV	20	-0.00245	-0.50208	30
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.50453	WERE	WACO 138KV	17.414	-0.00419	-0.50034	30
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.39912	WERE	SMOKYHIL 230 230KV	50	0.03122	-0.43034	34
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39873	WERE	SMOKYHIL 230 230KV	50	0.03122	-0.42995	34
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.39912	WERE	JEFFREY ENERGY CENTER 230KV	470	0.0295	-0.42862	35
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.39912	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03066	-0.42978	35
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.39912	WERE	LAWRENCE ENERGY CENTER 230KV	141.9337	0.01926	-0.41838	35
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39873	WERE	JEFFREY ENERGY CENTER 230KV	470	0.0295	-0.42823	35
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39873	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03066	-0.42939	35
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39873	WERE	LAWRENCE ENERGY CENTER 230KV	141.9337	0.01926	-0.41799	35
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.39912	WERE	CITY OF AUGUSTA 69KV	15.285	0.00077	-0.39989	37
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.39912	WERE	CITY OF IOLA 69KV	19.902	0.00308	-0.40222	37
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.39912	WERE	CITY OF WELLINGTON 69KV	20	-0.00245	-0.39667	37
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.39912	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.61	0.0049	-0.40402	37
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.39912	WERE	EVANS ENERGY CENTER 138KV	55	0.00054	-0.39966	37
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39873	WERE	CITY OF AUGUSTA 69KV	15.285	0.00077	-0.3995	37
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39873	WERE	CITY OF IOLA 69KV	19.902	0.00308	-0.40181	37
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39873	WERE	CITY OF WELLINGTON 69KV	20	-0.00245	-0.39628	37
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39873	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.61	0.0049	-0.40363	37
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39873	WERE	EVANS ENERGY CENTER 138KV	55	0.00054	-0.39927	37
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.39912	WERE	WACO 138KV	17.414	-0.00419	-0.39493	38
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39873	WERE	WACO 138KV	17.414	-0.00419	-0.39454	38
MIDW	PAWNEE 115KV	999	-0.21381	MIDW	KNOLL 3 115 115KV	75	-0.09075	-0.12306	121
MIDW	RICE 115KV	999	-0.21381	MIDW	KNOLL 3 115 115KV	75	-0.09075	-0.12306	121
WERE	GILL ENERGY CENTER 138KV	218	-0.00473	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03066	-0.03539	419
WERE	GILL ENERGY CENTER 138KV	218	-0.00473	WERE	JEFFREY ENERGY CENTER 230KV	470	0.0295	-0.03423	433
WERE	EVANS ENERGY CENTER 138KV	892	0.00054	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03066	-0.03012	492

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
1090964	3.2	4.1
1090965	0.9	4.1

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	-0.24272	WERE	JEFFREY ENERGY CENTER 230KV	470	0.01614	-0.25886	16
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.24272	WERE	JEFFREY ENERGY CENTER 345KV	940	0.01675	-0.25947	16
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.24272	WERE	LAWRENCE ENERGY CENTER 230KV	130.178	0.01058	-0.2533	16
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.24272	WERE	CHANUTE 69KV	35.344	0.00147	-0.24419	17
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.24272	WERE	CITY OF AUGUSTA 69KV	17.25201	0.00053	-0.24325	17
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.24272	WERE	CITY OF IOLA 69KV	13.978	0.00171	-0.24443	17
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.24272	WERE	CITY OF WELLINGTON 69KV	24	-0.00126	-0.24146	17
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.24272	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.97	0.00279	-0.24551	17
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.24272	WERE	EVANS ENERGY CENTER 138KV	25.9436	0.00041	-0.24313	17
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.24272	WERE	WACO 138KV	17.953	-0.00216	-0.24056	17
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.19666	WERE	JEFFREY ENERGY CENTER 230KV	470	0.01614	-0.2128	19
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.19666	WERE	JEFFREY ENERGY CENTER 345KV	940	0.01675	-0.21341	19
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.19657	WERE	JEFFREY ENERGY CENTER 230KV	470	0.01614	-0.21271	19
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.19657	WERE	JEFFREY ENERGY CENTER 345KV	940	0.01675	-0.21332	19
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.19666	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.97	0.00279	-0.19945	20
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.19666	WERE	LAWRENCE ENERGY CENTER 230KV	130.178	0.01058	-0.20724	20
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.19657	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.97	0.00279	-0.19936	20
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.19657	WERE	LAWRENCE ENERGY CENTER 230KV	130.178	0.01058	-0.20715	20
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.19666	WERE	CHANUTE 69KV	35.344	0.00147	-0.19813	21
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.19666	WERE	CITY OF AUGUSTA 69KV	17.25201	0.00053	-0.19719	21
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.19666	WERE	CITY OF IOLA 69KV	13.978	0.00171	-0.19837	21
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.19666	WERE	CITY OF WELLINGTON 69KV	24	-0.00126	-0.1954	21
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.19666	WERE	EVANS ENERGY CENTER 138KV	25.9436	0.00041	-0.19707	21
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.19666	WERE	WACO 138KV	17.953	-0.00216	-0.1945	21
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.19657	WERE	CHANUTE 69KV	35.344	0.00147	-0.19804	21
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.19657	WERE	CITY OF AUGUSTA 69KV	17.25201	0.00053	-0.1971	21
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.19657	WERE	CITY OF IOLA 69KV	13.978	0.00171	-0.19828	21
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.19657	WERE	CITY OF WELLINGTON 69KV	24	-0.00126	-0.19531	21
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.19657	WERE	EVANS ENERGY CENTER 138KV	25.9436	0.00041	-0.19698	21
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.19657	WERE	WACO 138KV	17.953	-0.00216	-0.19441	21
WEPL	A. M. MULLERGREEN GENERATOR 115KV	63	-0.10331	WEPL	GRAY COUNTY WIND FARM 115KV	73	-0.06334	-0.03997	102

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: 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	3.0	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	-0.23469	WERE	JEFFREY ENERGY CENTER 345KV	940	0.01426	-0.24895	24
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.23469	WERE	JEFFREY ENERGY CENTER 230KV	470	0.01373	-0.24842	25
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.23469	WERE	LAWRENCE ENERGY CENTER 230KV	230.5392	0.00895	-0.24364	25
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.23469	WERE	TECUMSEH ENERGY CENTER 115KV	108	0.01033	-0.24502	25
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.23469	WERE	CHANUTE 69KV	56.296	0.0012	-0.23589	26
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.23469	WERE	CITY OF AUGUSTA 69KV	19.63601	0.00037	-0.23506	26
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.23469	WERE	CITY OF IOLA 69KV	24.256	0.00141	-0.2361	26
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.23469	WERE	CITY OF WELLINGTON 69KV	20	-0.00113	-0.23356	26

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

WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.23469	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.0023	-0.23699	26
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.23469	WERE	EVANS ENERGY CENTER 138KV'	189.2432	0.00026	-0.23495	26
WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.23469	WERE	WACO 138KV'	17.946	-0.00194	-0.23275	26
WERE	HUTCHINSON ENERGY CENTER 115KV'	343	-0.18569	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.01426	-0.19995	30
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.1856	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.01426	-0.19986	30
WERE	HUTCHINSON ENERGY CENTER 115KV'	343	-0.18569	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.01373	-0.19942	31
WERE	HUTCHINSON ENERGY CENTER 115KV'	343	-0.18569	WERE	LAWRENCE ENERGY CENTER 230KV'	230.5392	0.00895	-0.19464	31
WERE	HUTCHINSON ENERGY CENTER 115KV'	343	-0.18569	WERE	TECUMSEH ENERGY CENTER 115KV'	108	0.01033	-0.19602	31
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.1856	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.01373	-0.19533	31
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.1856	WERE	LAWRENCE ENERGY CENTER 230KV'	230.5392	0.00895	-0.19465	31
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.1856	WERE	TECUMSEH ENERGY CENTER 115KV'	108	0.01033	-0.19593	31
WERE	HUTCHINSON ENERGY CENTER 115KV'	343	-0.18569	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.0023	-0.18799	32
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.1856	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.0023	-0.1879	32
WERE	HUTCHINSON ENERGY CENTER 115KV'	343	-0.18569	WERE	CITY OF AUGUSTA 69KV'	19.63601	0.00037	-0.18606	33
WERE	HUTCHINSON ENERGY CENTER 115KV'	343	-0.18569	WERE	CITY OF IOLA 69KV'	24.256	0.00141	-0.1871	33
WERE	HUTCHINSON ENERGY CENTER 115KV'	343	-0.18569	WERE	CITY OF WELLINGTON 69KV'	20	-0.00113	-0.18456	33
WERE	HUTCHINSON ENERGY CENTER 115KV'	343	-0.18569	WERE	EVANS ENERGY CENTER 138KV'	189.2432	0.00026	-0.18595	33
WERE	HUTCHINSON ENERGY CENTER 115KV'	343	-0.18569	WERE	WACO 138KV'	17.946	-0.00194	-0.18375	33
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.1856	WERE	CITY OF AUGUSTA 69KV'	19.63601	0.00037	-0.18597	33
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.1856	WERE	CITY OF IOLA 69KV'	24.256	0.00141	-0.18701	33
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.1856	WERE	CITY OF WELLINGTON 69KV'	20	-0.00113	-0.18447	33
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.1856	WERE	EVANS ENERGY CENTER 138KV'	189.2432	0.00026	-0.18586	33
WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.1856	WERE	WACO 138KV'	17.946	-0.00194	-0.18366	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: WICHITA - RENO 345KV
Limiting Facility: NORTH AMERICAN PHILIPS JUNCTION (SOUTH) - WEST MCPHERSON 115KV CKT 1
Direction: From->To
Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1
Flowgate: 57374574381568725687312207G
Date Redispatch Needed: Starting 2007 4/1 - 6/1 Until EOC of Upgrade
Season Flowgate Identified: 2007 Spring Peak

Reservation	Relief Amount	Aggregate Relief Amount	Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
1090964	2.1	2.7	WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	ABILENE ENERGY CENTER 115KV'	36.0376	0.0576	-0.30005	9
1090965	0.6	2.7	WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.01615	-0.2586	10
			WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.01674	-0.25919	10
			WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	CHANUTE 69KV'	40.39	0.00149	-0.24394	11
			WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	CITY OF AUGUSTA 69KV'	20.02	0.00057	-0.24302	11
			WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	CITY OF BURLINGTON 69KV'	4.8	0.00281	-0.24526	11
			WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	CITY OF IOLA 69KV'	17.08	0.00172	-0.24417	11
			WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	CITY OF MULVANE 69KV'	4.922	-0.00044	-0.24201	11
			WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	CITY OF WELLINGTON 69KV'	40.503	-0.00121	-0.24124	11
			WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV'	20.09	0.00281	-0.24526	11
			WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	EVANS ENERGY CENTER 138KV'	305	0.00045	-0.2429	11
			WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	GILL ENERGY CENTER 138KV'	77	-0.00238	-0.24007	11
			WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	LAWRENCE ENERGY CENTER 115KV'	60	0.01004	-0.25249	11
			WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	LAWRENCE ENERGY CENTER 230KV'	228.139	0.01055	-0.253	11
			WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	TECUMSEH ENERGY CENTER 115KV'	68.00001	0.01215	-0.2546	11
			WERE	BPU - CITY OF MCPHERSON 115KV'	259	-0.24245	WERE	WACO 138KV'	18	-0.00209	-0.24036	11
			WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.19628	WERE	ABILENE ENERGY CENTER 115KV'	36.0376	0.0576	-0.25386	11
			WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	ABILENE ENERGY CENTER 115KV'	36.0376	0.0576	-0.25377	11
			WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.19628	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.01615	-0.21241	13
			WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.19628	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.01674	-0.213	13
			WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.19628	WERE	LAWRENCE ENERGY CENTER 115KV'	60	0.01004	-0.2063	13
			WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.19628	WERE	LAWRENCE ENERGY CENTER 230KV'	228.139	0.01055	-0.20681	13
			WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.19628	WERE	TECUMSEH ENERGY CENTER 115KV'	68.00001	0.01215	-0.20841	13
			WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.01615	-0.21232	13
			WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.01674	-0.21291	13
			WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	LAWRENCE ENERGY CENTER 115KV'	60	0.01004	-0.20621	13
			WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	LAWRENCE ENERGY CENTER 230KV'	228.139	0.01055	-0.20672	13
			WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	TECUMSEH ENERGY CENTER 115KV'	68.00001	0.01215	-0.20832	13
			WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.19626	WERE	CHANUTE 69KV'	40.39	0.00149	-0.19775	14
			WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.19626	WERE	CITY OF AUGUSTA 69KV'	20.02	0.00057	-0.19683	14
			WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.19626	WERE	CITY OF BURLINGTON 69KV'	4.8	0.00281	-0.19907	14
			WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.19626	WERE	CITY OF IOLA 69KV'	17.08	0.00172	-0.19798	14
			WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.19626	WERE	CITY OF MULVANE 69KV'	4.922	-0.00044	-0.19582	14
			WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.19626	WERE	CITY OF WELLINGTON 69KV'	40.503	-0.00121	-0.19506	14
			WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.19626	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV'	20.09	0.00281	-0.19907	14
			WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.19626	WERE	EVANS ENERGY CENTER 138KV'	305	0.00045	-0.19671	14
			WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.19626	WERE	GILL ENERGY CENTER 138KV'	77	-0.00238	-0.19388	14
			WERE	HUTCHINSON ENERGY CENTER 115KV'	303	-0.19626	WERE	WACO 138KV'	18	-0.00209	-0.19417	14
			WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	CHANUTE 69KV'	40.39	0.00149	-0.19766	14
			WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	CITY OF AUGUSTA 69KV'	20.02	0.00057	-0.19674	14
			WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	CITY OF BURLINGTON 69KV'	4.8	0.00281	-0.19898	14
			WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	CITY OF IOLA 69KV'	17.08	0.00172	-0.19789	14
			WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	CITY OF MULVANE 69KV'	4.922	-0.00044	-0.19573	14
			WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	CITY OF WELLINGTON 69KV'	40.503	-0.00121	-0.19496	14
			WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV'	20.09	0.00281	-0.19898	14
			WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	EVANS ENERGY CENTER 138KV'	305	0.00045	-0.19662	14
			WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	GILL ENERGY CENTER 138KV'	77	-0.00238	-0.19379	14
			WERE	HUTCHINSON ENERGY CENTER 69KV'	67	-0.19617	WERE	WACO 138KV'	18	-0.00209	-0.19408	14
			WERE	ST JOHN 115KV'	7.5	-0.11208	WERE	ABILENE ENERGY CENTER 115KV'	36.0376	0.0576	-0.16968	16
			WERE	ST JOHN 115KV'	7.5	-0.11208	WERE	JEFFREY ENERGY CENTER 230KV'	470	0.01615	-0.12823	21
			WERE	ST JOHN 115KV'	7.5	-0.11208	WERE	JEFFREY ENERGY CENTER 345KV'	940	0.01674	-0.12882	21
			WERE	ST JOHN 115KV'	7.5	-0.11208	WERE	LAWRENCE ENERGY CENTER 115KV'	60	0.01004	-0.12212	22
			WERE	ST JOHN 115KV'	7.5	-0.11208	WERE	LAWRENCE ENERGY CENTER 230KV'	228.139	0.01055	-0.12263	22
			WERE	ST JOHN 115KV'	7.5	-0.11208	WERE	TECUMSEH ENERGY CENTER 115KV'	68.00001	0.01215	-0.12423	22
			WERE	GILL ENERGY CENTER 138KV'	95.99999	-0.00238	WERE	ABILENE ENERGY CENTER 115KV'	36.0376	0.0576	-0.05998	45
			WERE	CITY OF WINFIELD 69KV'	40	-0.00069	WERE	ABILENE ENERGY CENTER 115KV'	36.0376	0.0576	-0.05829	46
			WERE	GILL ENERGY CENTER 69KV'	118	-0.00166	WERE	ABILENE ENERGY CENTER 115KV'	36.0376	0.0576	-0.05926	46
			WERE	EVANS ENERGY CENTER 138KV'	488	0.00045	WERE	ABILENE ENERGY CENTER 115KV'	36.0376	0.0576	-0.05715	47
			WERE	CHANUTE 69KV'	47.41	0.00149	WERE	ABILENE ENERGY CENTER 115KV'	36.0376	0.0576	-0.05611	48
			WERE	CITY OF ERIE 69KV'	24.119	0.00149	WERE	ABILENE ENERGY CENTER 115KV'	36.0376	0.0576	-0.05611	48
			WERE	GETTY 69KV'	35	0.00079	WERE	ABILENE ENERGY CENTER 115KV'	36.0376	0.0576	-0.05681	48
			WERE	LATHAM1234.0 345KV'	150	0.00139	WERE	ABILENE ENERGY CENTER 115KV'	36.0376	0.0576	-0.05621	48
			WERE	NEOSHO ENERGY CENTER 138KV'	67	0.00144	WERE	ABILENE ENERGY CENTER 115KV'	36.0376	0.0576	-0.05616	48
			WERE	SOUTH SENECA 115KV'	16.7	0.00284	WERE	ABILENE ENERGY CENTER 115KV'	36.0376	0.0576	-0.05476	49
			WERE	HOLTON 115KV'	19.8	0.00862	WERE	ABILENE ENERGY CENTER 115KV'	36.0376	0.0576	-0.04898	55
			WERE	LAWRENCE ENERGY CENTER 230KV'	40.86096	0.01055	WERE	ABILENE ENERGY CENTER 115KV				

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: 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	7.8
1090964	3.9	7.8
1090965	1.1	7.8

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	-0.23468	WERE	'ABILENE ENERGY CENTER 115KV'	19.52661	0.05449	-0.28917	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23468	WERE	'CLAY CENTER JUNCTION 115KV'	11.825	0.04033	-0.27501	28
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23468	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01427	-0.24895	31
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.18568	WERE	'ABILENE ENERGY CENTER 115KV'	19.52661	0.05449	-0.24017	32
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18559	WERE	'ABILENE ENERGY CENTER 115KV'	19.52661	0.05449	-0.24008	32
WERE	'HUTCHINSON ENERGY CENTER 115KV'	303	-0.18568	WERE	'CLAY CENTER JUNCTION 115KV'	11.825	0.04033	-0.22601	34
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18559	WERE	'CLAY CENTER JUNCTION 115KV'	11.825	0.04033	-0.22592	34
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23468	WERE	'HUTCHINSON ENERGY CENTER 115KV'	80.00001	-0.18568	-0.049	158

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: 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	-0.23467	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01375	-0.24842	26
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23467	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01428	-0.24895	26
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23467	WERE	'LAWRENCE ENERGY CENTER 230KV'	170.2826	0.00897	-0.24364	27
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23467	WERE	'CHANUTE 69KV'	34.818	0.00122	-0.23589	28
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23467	WERE	'CITY OF AUGUSTA 69KV'	14.628	0.00039	-0.23506	28
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23467	WERE	'CITY OF IOLA 69KV'	14.565	0.00142	-0.23609	28
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23467	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00111	-0.23356	28
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23467	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.95	0.00232	-0.23699	28
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23467	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00028	-0.23495	28
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23467	WERE	'WAGO 138KV'	17.93	-0.00192	-0.23275	28
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18566	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01375	-0.19941	33
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18566	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01428	-0.19994	33
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18557	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01375	-0.19932	33
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18557	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01428	-0.19885	33
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18566	WERE	'LAWRENCE ENERGY CENTER 230KV'	170.2826	0.00897	-0.19463	34
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18557	WERE	'LAWRENCE ENERGY CENTER 230KV'	170.2826	0.00897	-0.19454	34
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18566	WERE	'CITY OF AUGUSTA 69KV'	14.628	0.00039	-0.18605	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18566	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00111	-0.18455	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18566	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.95	0.00232	-0.18798	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18566	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00028	-0.18594	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18557	WERE	'CITY OF AUGUSTA 69KV'	14.628	0.00039	-0.18596	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18557	WERE	'CITY OF WELLINGTON 69KV'	20	-0.00111	-0.18446	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18557	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.95	0.00232	-0.18789	35
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18557	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00028	-0.18585	35
WERE	'HUTCHINSON ENERGY CENTER 115KV'	423	-0.18566	WERE	'WAGO 138KV'	17.93	-0.00192	-0.18374	36
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18557	WERE	'WAGO 138KV'	17.93	-0.00192	-0.18365	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 PHILIPS JUNCTION (SOUTH) - WEST MCPHERSON 115KV CKT 1
 Direction: From->To
 Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1
 Flowgate: 57374574381568725687313208WP
 Date Redispatch Needed: Starting 2008 12/1 - 4/1 Until EOC
 Season Flowgate Identified: 2008 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090325	2.3	23.3
1090327	0.6	23.3
1090817	2.3	23.3
1090826	3.6	23.3
1090844	0.9	23.3
1090854	0.5	23.3
1090917	0.8	23.3
1090919	0.2	23.3
1090920	1.7	23.3
1090921	0.4	23.3
1090922	4.9	23.3
1090964	3.2	23.3
1090965	0.9	23.3
1091057	0.9	23.3

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	-0.23462	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01426	-0.24888	93
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23462	WERE	'SMOKYHIL 230 230KV'	50	0.01452	-0.24914	93
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23462	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01372	-0.24834	94
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23462	WERE	'LAWRENCE ENERGY CENTER 230KV'	132.2316	0.00896	-0.24358	95
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23462	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00025	-0.23487	99
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.18561	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01426	-0.19987	116
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.18561	WERE	'SMOKYHIL 230 230KV'	50	0.01452	-0.20013	116
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18542	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01426	-0.19968	116
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18542	WERE	'SMOKYHIL 230 230KV'	50	0.01452	-0.19994	116
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.18561	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01372	-0.19933	117
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18542	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01372	-0.19914	117
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.18561	WERE	'LAWRENCE ENERGY CENTER 230KV'	132.2316	0.00896	-0.19457	120

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

WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18542	WERE	'LAWRENCE ENERGY CENTER 230KV'	132.2316	0.00896	-0.19438	120
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.18561	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00025	-0.18586	125
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18542	WERE	'EVANS ENERGY CENTER 138KV'	55	0.00025	-0.18567	125

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 PHILLIPS JUNCTION (SOUTH) - WEST MCPHERSON 115KV CKT 1
 Direction: From->To
 Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1
 Flowgate: 57374574381568725687313211WP
 Date Redispatch Needed: 12/11/11 - 4/1/12
 Season Flowgate Identified: 2011 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090325	2.3	22.5
1090327	0.6	22.5
1090817	2.2	22.5
1090826	3.6	22.5
1090844	0.9	22.5
1090854	0.5	22.5
1090917	0.8	22.5
1090919	0.2	22.5
1090920	1.5	22.5
1090921	0.4	22.5
1090922	4.7	22.5
1090964	3.1	22.5
1090965	0.9	22.5
1091057	0.9	22.5

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	-0.23458	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01425	-0.24883	90
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23458	WERE	'SMOKYHIL 230 230KV'	50	0.01454	-0.24912	90
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23458	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0137	-0.24828	91
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23458	WERE	'LAWRENCE ENERGY CENTER 230KV'	208.5043	0.00888	-0.24346	92
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23458	WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.0103	-0.24488	92
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23458	WERE	'EVANS ENERGY CENTER 138KV'	110	0.00025	-0.23483	96
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.18556	WERE	'SMOKYHIL 230 230KV'	50	0.01454	-0.2001	112
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.18556	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0137	-0.19926	113
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.18556	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01425	-0.19981	113
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18538	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0137	-0.19908	113
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18538	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01425	-0.19963	113
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18538	WERE	'SMOKYHIL 230 230KV'	50	0.01454	-0.19992	113
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.18556	WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.0103	-0.19586	115
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18538	WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.0103	-0.19568	115
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.18556	WERE	'LAWRENCE ENERGY CENTER 230KV'	208.5043	0.00888	-0.19444	116
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18538	WERE	'LAWRENCE ENERGY CENTER 230KV'	208.5043	0.00888	-0.19426	116
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.18556	WERE	'EVANS ENERGY CENTER 138KV'	110	0.00025	-0.18581	121
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18538	WERE	'EVANS ENERGY CENTER 138KV'	110	0.00025	-0.18563	121

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 PHILLIPS JUNCTION (SOUTH) - WEST MCPHERSON 115KV CKT 2
 Direction: From->To
 Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1
 Flowgate: 57374574382568725687311211WP
 Date Redispatch Needed: 12/11/11 - 4/1/12
 Season Flowgate Identified: 2011 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount
1090325	2.6	25.9
1090327	0.6	25.9
1090817	2.6	25.9
1090826	4.1	25.9
1090844	1.0	25.9
1090854	0.6	25.9
1090917	0.9	25.9
1090919	0.2	25.9
1090920	1.7	25.9
1090921	0.4	25.9
1090922	5.4	25.9
1090964	3.6	25.9
1090965	1.0	25.9
1091057	1.0	25.9

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	-0.26986	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01639	-0.28625	90
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26986	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01576	-0.28562	91
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26986	WERE	'LAWRENCE ENERGY CENTER 230KV'	223.5049	0.01021	-0.28007	92
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26986	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.01185	-0.28171	92
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26986	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	0.00969	-0.27955	93
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26986	WERE	'EVANS ENERGY CENTER 138KV'	195	0.00029	-0.27015	96
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26986	WERE	'GILL ENERGY CENTER 138KV'	57.40552	-0.00253	-0.26733	97
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.21347	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01576	-0.22923	113
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.21347	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01639	-0.22986	113
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21326	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01576	-0.22902	113
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21326	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01639	-0.22965	113
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.21347	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.01185	-0.22532	115
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21326	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.01185	-0.22511	115
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.21347	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	0.00969	-0.22316	116
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.21347	WERE	'LAWRENCE ENERGY CENTER 230KV'	223.5049	0.01021	-0.22368	116
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21326	WERE	'LAWRENCE ENERGY CENTER 115KV'	85	0.00969	-0.22295	116
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21326	WERE	'LAWRENCE ENERGY CENTER 230KV'	223.5049	0.01021	-0.22347	116
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.21347	WERE	'EVANS ENERGY CENTER 138KV'	195	0.00029	-0.21376	121
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21326	WERE	'EVANS ENERGY CENTER 138KV'	195	0.00029	-0.21355	121
WERE	'HUTCHINSON ENERGY CENTER 115KV'	343	-0.21347	WERE	'GILL ENERGY CENTER 138KV'	57.40552	-0.00253	-0.21094	123
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21326	WERE	'GILL ENERGY CENTER 138KV'	57.40552	-0.00253	-0.21073	123

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 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

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

Reservation	Relief Amount	Aggregate Relief Amount	
1090964	3.6	4.7	
1090965	1.0	4.7	

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	-0.27922	WERE	JEFFREY ENERGY CENTER 230KV/	470	0.01856	-0.29778	16
WERE	BPU - CITY OF MCPHERSON 115KV/	259	-0.27922	WERE	JEFFREY ENERGY CENTER 345KV/	940	0.01927	-0.29849	16
WERE	BPU - CITY OF MCPHERSON 115KV/	259	-0.27922	WERE	LAWRENCE ENERGY CENTER 230KV/	130.178	0.01217	-0.29139	16
WERE	BPU - CITY OF MCPHERSON 115KV/	259	-0.27922	WERE	CHANUTE 69KV/	35.344	0.00169	-0.28091	17
WERE	BPU - CITY OF MCPHERSON 115KV/	259	-0.27922	WERE	CITY OF AUGUSTA 69KV/	17.25201	0.00061	-0.27983	17
WERE	BPU - CITY OF MCPHERSON 115KV/	259	-0.27922	WERE	CITY OF IOLA 69KV/	13.978	0.00197	-0.28119	17
WERE	BPU - CITY OF MCPHERSON 115KV/	259	-0.27922	WERE	CITY OF WELLINGTON 69KV/	24	-0.00145	-0.27777	17
WERE	BPU - CITY OF MCPHERSON 115KV/	259	-0.27922	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV/	19.97	0.00321	-0.28243	17
WERE	BPU - CITY OF MCPHERSON 115KV/	259	-0.27922	WERE	EVANS ENERGY CENTER 138KV/	25.9436	0.00047	-0.27969	17
WERE	BPU - CITY OF MCPHERSON 115KV/	259	-0.27922	WERE	WACO 138KV/	17.953	-0.00249	-0.27673	17
WERE	HUTCHINSON ENERGY CENTER 115KV/	423	-0.22623	WERE	JEFFREY ENERGY CENTER 230KV/	470	0.01856	-0.24479	19
WERE	HUTCHINSON ENERGY CENTER 115KV/	423	-0.22623	WERE	JEFFREY ENERGY CENTER 345KV/	940	0.01927	-0.2455	19
WERE	HUTCHINSON ENERGY CENTER 69KV/	67	-0.22613	WERE	JEFFREY ENERGY CENTER 230KV/	470	0.01856	-0.24469	19
WERE	HUTCHINSON ENERGY CENTER 69KV/	67	-0.22613	WERE	JEFFREY ENERGY CENTER 345KV/	940	0.01927	-0.2454	19
WERE	HUTCHINSON ENERGY CENTER 115KV/	423	-0.22623	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV/	19.97	0.00321	-0.22944	20
WERE	HUTCHINSON ENERGY CENTER 115KV/	423	-0.22623	WERE	LAWRENCE ENERGY CENTER 230KV/	130.178	0.01217	-0.2384	20
WERE	HUTCHINSON ENERGY CENTER 69KV/	67	-0.22613	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV/	19.97	0.00321	-0.22934	20
WERE	HUTCHINSON ENERGY CENTER 69KV/	67	-0.22613	WERE	LAWRENCE ENERGY CENTER 230KV/	130.178	0.01217	-0.2383	20
WERE	HUTCHINSON ENERGY CENTER 115KV/	423	-0.22623	WERE	CHANUTE 69KV/	35.344	0.00169	-0.22792	21
WERE	HUTCHINSON ENERGY CENTER 115KV/	423	-0.22623	WERE	CITY OF AUGUSTA 69KV/	17.25201	0.00061	-0.22684	21
WERE	HUTCHINSON ENERGY CENTER 115KV/	423	-0.22623	WERE	CITY OF IOLA 69KV/	13.978	0.00197	-0.2282	21
WERE	HUTCHINSON ENERGY CENTER 115KV/	423	-0.22623	WERE	CITY OF WELLINGTON 69KV/	24	-0.00145	-0.22478	21
WERE	HUTCHINSON ENERGY CENTER 115KV/	423	-0.22623	WERE	EVANS ENERGY CENTER 138KV/	25.9436	0.00047	-0.2267	21
WERE	HUTCHINSON ENERGY CENTER 115KV/	423	-0.22623	WERE	WACO 138KV/	17.953	-0.00249	-0.22374	21
WERE	HUTCHINSON ENERGY CENTER 69KV/	67	-0.22613	WERE	CHANUTE 69KV/	35.344	0.00169	-0.22782	21
WERE	HUTCHINSON ENERGY CENTER 69KV/	67	-0.22613	WERE	CITY OF AUGUSTA 69KV/	17.25201	0.00061	-0.22674	21
WERE	HUTCHINSON ENERGY CENTER 69KV/	67	-0.22613	WERE	CITY OF IOLA 69KV/	13.978	0.00197	-0.2281	21
WERE	HUTCHINSON ENERGY CENTER 69KV/	67	-0.22613	WERE	CITY OF WELLINGTON 69KV/	24	-0.00145	-0.22468	21
WERE	HUTCHINSON ENERGY CENTER 69KV/	67	-0.22613	WERE	EVANS ENERGY CENTER 138KV/	25.9436	0.00047	-0.2266	21
WERE	HUTCHINSON ENERGY CENTER 69KV/	67	-0.22613	WERE	WACO 138KV/	17.953	-0.00249	-0.22364	21
WEPL	A. M. MULLERGEREN GENERATOR 115KV/	63	-0.11885	WEPL	GRAY COUNTY WIND FARM 115KV/	73	-0.07287	-0.04598	102

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 PHILLIPS 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	1.4	4.1	
1090964	2.0	4.1	
1090965	0.6	4.1	

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	-0.26996	WERE	CLAY CENTER JUNCTION 115KV/	6.7	0.0464	-0.31636	13
WERE	BPU - CITY OF MCPHERSON 115KV/	259	-0.26996	WERE	JEFFREY ENERGY CENTER 230KV/	470	0.01582	-0.28578	14
WERE	BPU - CITY OF MCPHERSON 115KV/	259	-0.26996	WERE	JEFFREY ENERGY CENTER 345KV/	940	0.01643	-0.28659	14
WERE	BPU - CITY OF MCPHERSON 115KV/	259	-0.26996	WERE	CHANUTE 69KV/	34.818	0.0014	-0.27136	15
WERE	BPU - CITY OF MCPHERSON 115KV/	259	-0.26996	WERE	CITY OF AUGUSTA 69KV/	14.628	0.00044	-0.2704	15
WERE	BPU - CITY OF MCPHERSON 115KV/	259	-0.26996	WERE	CITY OF IOLA 69KV/	14.565	0.00164	-0.2716	15
WERE	BPU - CITY OF MCPHERSON 115KV/	259	-0.26996	WERE	CITY OF WELLINGTON 69KV/	20	-0.00128	-0.26868	15
WERE	BPU - CITY OF MCPHERSON 115KV/	259	-0.26996	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV/	19.95	0.00267	-0.27263	15
WERE	BPU - CITY OF MCPHERSON 115KV/	259	-0.26996	WERE	EVANS ENERGY CENTER 138KV/	55	0.00332	-0.27028	15
WERE	BPU - CITY OF MCPHERSON 115KV/	259	-0.26996	WERE	LAWRENCE ENERGY CENTER 230KV/	170.2826	0.01032	-0.28028	15
WERE	BPU - CITY OF MCPHERSON 115KV/	259	-0.26996	WERE	WACO 138KV/	17.93	-0.00221	-0.26775	15
WERE	HUTCHINSON ENERGY CENTER 115KV/	423	-0.21358	WERE	CLAY CENTER JUNCTION 115KV/	6.7	0.0464	-0.25998	16
WERE	HUTCHINSON ENERGY CENTER 69KV/	67	-0.21348	WERE	CLAY CENTER JUNCTION 115KV/	6.7	0.0464	-0.25988	16
WERE	HUTCHINSON ENERGY CENTER 115KV/	423	-0.21358	WERE	JEFFREY ENERGY CENTER 230KV/	470	0.01582	-0.2294	18
WERE	HUTCHINSON ENERGY CENTER 115KV/	423	-0.21358	WERE	JEFFREY ENERGY CENTER 345KV/	940	0.01643	-0.23001	18
WERE	HUTCHINSON ENERGY CENTER 69KV/	67	-0.21348	WERE	LAWRENCE ENERGY CENTER 230KV/	170.2826	0.01032	-0.2239	18
WERE	HUTCHINSON ENERGY CENTER 69KV/	67	-0.21348	WERE	JEFFREY ENERGY CENTER 230KV/	470	0.01582	-0.2293	18
WERE	HUTCHINSON ENERGY CENTER 69KV/	67	-0.21348	WERE	JEFFREY ENERGY CENTER 345KV/	940	0.01643	-0.22991	18
WERE	HUTCHINSON ENERGY CENTER 115KV/	423	-0.21358	WERE	LAWRENCE ENERGY CENTER 230KV/	170.2826	0.01032	-0.2238	18
WERE	HUTCHINSON ENERGY CENTER 115KV/	423	-0.21358	WERE	CHANUTE 69KV/	34.818	0.0014	-0.21498	19
WERE	HUTCHINSON ENERGY CENTER 115KV/	423	-0.21358	WERE	CITY OF AUGUSTA 69KV/	14.628	0.00044	-0.21402	19
WERE	HUTCHINSON ENERGY CENTER 115KV/	423	-0.21358	WERE	CITY OF IOLA 69KV/	14.565	0.00164	-0.21522	19
WERE	HUTCHINSON ENERGY CENTER 115KV/	423	-0.21358	WERE	CITY OF WELLINGTON 69KV/	20	-0.00128	-0.2123	19
WERE	HUTCHINSON ENERGY CENTER 115KV/	423	-0.21358	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV/	19.95	0.00267	-0.21625	19
WERE	HUTCHINSON ENERGY CENTER 115KV/	423	-0.21358	WERE	EVANS ENERGY CENTER 138KV/	55	0.00332	-0.2139	19
WERE	HUTCHINSON ENERGY CENTER 115KV/	423	-0.21358	WERE	WACO 138KV/	17.93	-0.00221	-0.21137	19
WERE	HUTCHINSON ENERGY CENTER 69KV/	67	-0.21348	WERE	CHANUTE 69KV/	34.818	0.0014	-0.21488	19
WERE	HUTCHINSON ENERGY CENTER 69KV/	67	-0.21348	WERE	CITY OF AUGUSTA 69KV/	14.628	0.00044	-0.21392	19
WERE	HUTCHINSON ENERGY CENTER 69KV/	67	-0.21348	WERE	CITY OF IOLA 69KV/	14.565	0.00164	-0.21512	19
WERE	HUTCHINSON ENERGY CENTER 69KV/	67	-0.21348	WERE	CITY OF WELLINGTON 69KV/	20	-0.00128	-0.2122	19
WERE	HUTCHINSON ENERGY CENTER 69KV/	67	-0.21348	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV/	19.95	0.00267	-0.21615	19
WERE	HUTCHINSON ENERGY CENTER 69KV/	67	-0.21348	WERE	EVANS ENERGY CENTER 138KV/	55	0.00332	-0.2138	19
WERE	HUTCHINSON ENERGY CENTER 69KV/	67	-0.21348	WERE	WACO 138KV/	17.93	-0.00221	-0.21127	19
WEPL	A. M. MULLERGEREN GENERATOR 115KV/	63	-0.09386	WEPL	GRAY COUNTY WIND FARM 115KV/	60	-0.05911	-0.03475	118

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 PHILLIPS JUNCTION (SOUTH) - WEST MCPHERSON 115KV CKT 2
 Direction: From->To
 Line Outage: EAST MCPHERSON - SUMMIT 230KV CKT 1
 Flowgate: 57374574382568725687312208WP
 Date Redispatch Needed: Starting 2008 12/1 - 4/1 Until EOC
 Season Flowgate Identified: 2008 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount	
1090325	0.2	2.7	
1090327	0.1	2.7	
1090817	0.3	2.7	
1090826	0.4	2.7	
1090844	0.1	2.7	
1090854	0.1	2.7	
1090917	0.1	2.7	
1090919	0.0	2.7	
1090920	0.2	2.7	
1090921	0.0	2.7	

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)
1090922		0.6	2.7						
1090964		0.3	2.7						
1090965		0.1	2.7						
1091057		0.1	2.7						
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.26991	WERE	CLAY CENTER JUNCTION 115KV	6.7	0.04638	-0.31629	9
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.26991	WERE	CHANUTE 69KV	34.903	0.0014	-0.27131	10
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.26991	WERE	CITY OF AUGUSTA 69KV	15.285	0.00041	-0.27032	10
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.26991	WERE	CITY OF BURLINGTON 69KV	4.8	0.00262	-0.27253	10
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.26991	WERE	CITY OF IOLA 69KV	19.902	0.00165	-0.27156	10
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.26991	WERE	CITY OF MULVANE 69KV	3.921	-0.00059	-0.26932	10
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.26991	WERE	CITY OF WELLINGTON 69KV	20	-0.00131	-0.26886	10
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.26991	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.61	0.00262	-0.27253	10
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.26991	WERE	EVANS ENERGY CENTER 138KV	55	0.00029	-0.2702	10
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.26991	WERE	JEFFREY ENERGY CENTER 230KV	470	0.01578	-0.28569	10
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.26991	WERE	JEFFREY ENERGY CENTER 345KV	940	0.0164	-0.28631	10
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.26991	WERE	LAWRENCE ENERGY CENTER 230KV	141.9337	0.0103	-0.28021	10
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.26991	WERE	SMOKYHIL 230 230KV	50	0.0167	-0.28661	10
WERE	BPU - CITY OF MCPHERSON 115KV	259	-0.26991	WERE	WACO 138KV	17.414	-0.00224	-0.26767	10
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.21352	WERE	CLAY CENTER JUNCTION 115KV	6.7	0.04638	-0.2599	11
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.21331	WERE	CLAY CENTER JUNCTION 115KV	6.7	0.04638	-0.25969	11
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.21352	WERE	JEFFREY ENERGY CENTER 230KV	470	0.01578	-0.2293	12
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.21352	WERE	JEFFREY ENERGY CENTER 345KV	940	0.0164	-0.22992	12
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.21352	WERE	LAWRENCE ENERGY CENTER 230KV	141.9337	0.0103	-0.22382	12
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.21352	WERE	SMOKYHIL 230 230KV	50	0.0167	-0.23022	12
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.21331	WERE	JEFFREY ENERGY CENTER 230KV	470	0.01578	-0.22909	12
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.21331	WERE	JEFFREY ENERGY CENTER 345KV	940	0.0164	-0.22971	12
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.21331	WERE	LAWRENCE ENERGY CENTER 230KV	141.9337	0.0103	-0.22361	12
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.21331	WERE	SMOKYHIL 230 230KV	50	0.0167	-0.23001	12
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.21352	WERE	CHANUTE 69KV	34.903	0.0014	-0.21492	13
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.21352	WERE	CITY OF AUGUSTA 69KV	15.285	0.00041	-0.21393	13
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.21352	WERE	CITY OF BURLINGTON 69KV	4.8	0.00262	-0.21614	13
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.21352	WERE	CITY OF IOLA 69KV	19.902	0.00165	-0.21517	13
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.21352	WERE	CITY OF WELLINGTON 69KV	20	-0.00131	-0.21221	13
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.21352	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.61	0.00262	-0.21614	13
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.21352	WERE	EVANS ENERGY CENTER 138KV	55	0.00029	-0.21381	13
WERE	HUTCHINSON ENERGY CENTER 115KV	423	-0.21352	WERE	WACO 138KV	17.414	-0.00224	-0.21128	13
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.21331	WERE	CHANUTE 69KV	34.903	0.0014	-0.21471	13
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.21331	WERE	CITY OF AUGUSTA 69KV	15.285	0.00041	-0.21372	13
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.21331	WERE	CITY OF BURLINGTON 69KV	4.8	0.00262	-0.21593	13
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.21331	WERE	CITY OF IOLA 69KV	19.902	0.00165	-0.21486	13
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.21331	WERE	CITY OF WELLINGTON 69KV	20	-0.00131	-0.212	13
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.21331	WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.61	0.00262	-0.21583	13
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.21331	WERE	EVANS ENERGY CENTER 138KV	55	0.00029	-0.2136	13
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.21331	WERE	WACO 138KV	17.414	-0.00224	-0.21107	13
WERE	ST JOHN 115KV	7.5	-0.11438	WERE	CLAY CENTER JUNCTION 115KV	6.7	0.04638	-0.16076	17
WERE	ST JOHN 115KV	7.5	-0.11438	WERE	JEFFREY ENERGY CENTER 230KV	470	0.01578	-0.13016	21
WERE	ST JOHN 115KV	7.5	-0.11438	WERE	JEFFREY ENERGY CENTER 345KV	940	0.0164	-0.13078	21
WERE	ST JOHN 115KV	7.5	-0.11438	WERE	SMOKYHIL 230 230KV	50	0.0167	-0.13108	21
WERE	ST JOHN 115KV	7.5	-0.11438	WERE	LAWRENCE ENERGY CENTER 230KV	141.9337	0.0103	-0.12468	22
MIDW	PAWNEE 115KV	999	-0.11438	MIDW	KNOLL 3 115 115KV	75	-0.04855	-0.06583	42
MIDW	PAWNEE 115KV	999	-0.11438	MIDW	KNOLL 3 115 115KV	75	-0.04855	-0.06583	42
WEPL	A. M. MULLERGEN GENERATOR 115KV	63	-0.09374	WEPL	GRAY COUNTY WIND FARM 115KV	60	-0.05965	-0.03409	80

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: WOODWARD - WOODWARD 69KV CKT 1
 Limiting Facility: WOODWARD - WOODWARD 69KV CKT 1
 Direction: From->To
 Line Outage: FPL SWITCH - WOODWARD 138KV CKT 1
 Flowgate: 56096547821557855478511107SH
 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)
1086238	1.4	1.4										
OKGE	WOODWARD 24KV	9.3	-0.44657	OKGE	AES 161KV	320	-0.00021	-0.44636	3			
OKGE	WOODWARD 24KV	9.3	-0.44657	OKGE	FPLWIND2 34KV	102	0.04514	-0.49171	3			
OKGE	WOODWARD 24KV	9.3	-0.44657	OKGE	HORSESHOE LAKE 138KV	91	-0.00148	-0.44509	3			
OKGE	WOODWARD 24KV	9.3	-0.44657	OKGE	HORSESHOE LAKE 69KV	16	-0.00141	-0.44516	3			
OKGE	WOODWARD 24KV	9.3	-0.44657	OKGE	MCCLEIN 138KV	478	-0.00231	-0.44426	3			
OKGE	WOODWARD 24KV	9.3	-0.44657	OKGE	MUSKOGEE 345KV	1516	-0.0003	-0.44627	3			
OKGE	WOODWARD 24KV	9.3	-0.44657	OKGE	MUSTANG 138KV	50	-0.00236	-0.44421	3			
OKGE	WOODWARD 24KV	9.3	-0.44657	OKGE	MUSTANG 69KV	100.3984	-0.00255	-0.44402	3			
OKGE	WOODWARD 24KV	9.3	-0.44657	OKGE	ONE OAK 345KV	100	-0.00097	-0.4456	3			
OKGE	WOODWARD 24KV	9.3	-0.44657	OKGE	SEMINOLE 138KV	474.7874	-0.0011	-0.44547	3			
OKGE	WOODWARD 24KV	9.3	-0.44657	OKGE	SEMINOLE 345KV	996	-0.00114	-0.44543	3			
OKGE	WOODWARD 24KV	9.3	-0.44657	OKGE	SMITH COGEN 138KV	110	-0.00223	-0.44434	3			
OKGE	WOODWARD 24KV	9.3	-0.44657	OKGE	SOONER 138KV	505	0.00148	-0.44805	3			
OKGE	WOODWARD 24KV	9.3	-0.44657	OKGE	SOONER 345KV	513	0.00067	-0.44724	3			
WFEC	ANADARKO 138KV	90	0.0001	WFEC	SLEEPING BEAR 138KV	96	0.08953	-0.08943	16			
WFEC	ANADARKO 69KV	76	0.00019	WFEC	SLEEPING BEAR 138KV	96	0.08953	-0.08934	16			
WFEC	BLUCAN14 138 138KV	151.2	0.00032	WFEC	SLEEPING BEAR 138KV	96	0.08953	-0.08921	16			
OKGE	MCCLEIN 138KV	42	-0.00231	OKGE	FPLWIND2 34KV	102	0.04514	-0.04745	30			
OKGE	MUSTANG 138KV	315.5	-0.00236	OKGE	FPLWIND2 34KV	102	0.04514	-0.0475	30			
OKGE	HORSESHOE LAKE 138KV	390	-0.00148	OKGE	FPLWIND2 34KV	102	0.04514	-0.04662	31			
OKGE	HORSESHOE LAKE 138KV	390.5	-0.00148	OKGE	FPLWIND2 34KV	102	0.04514	-0.04662	31			
OKGE	ONE OAK 345KV	236	-0.00097	OKGE	FPLWIND2 34KV	102	0.04514	-0.04611	31			
OKGE	REDBUD 345KV	900	-0.00098	OKGE	FPLWIND2 34KV	102	0.04514	-0.04613	31			
OKGE	REDBUD 345KV	300	-0.00098	OKGE	FPLWIND2 34KV	102	0.04514	-0.04613	31			
OKGE	SEMINOLE 138KV	30.21262	-0.0011	OKGE	FPLWIND2 34KV	102	0.04514	-0.04624	31			
OKGE	TINKER 5G 138KV	62	-0.00148	OKGE	FPLWIND2 34KV	102	0.04514	-0.04662	31			
WFEC	ANADARKO 138KV	90	0.0001	WFEC	MORLND 138KV	160.0176	0.04514	-0.04504	32			
WFEC	ANADARKO 69KV	76	0.00019	WFEC	MORLND 138KV	160.0176	0.04514	-0.04495	32			
WFEC	BLUCAN14 138 138KV	151.2	0.00032	WFEC	MORLND 138KV	160.0176	0.04514	-0.04482	32			
WFEC	MORLND 138KV	159.9824	0.04514	WFEC	SLEEPING BEAR 138KV	96	0.08953	-0.04439	32			
OKGE	MUSKOGEE 161KV	166	-0.00026	OKGE	FPLWIND2 34KV	102	0.04514	-0.0454	32			
OKGE	MUSKOGEE 161KV	31	-0.00026	OKGE	FPLWIND2 34KV	102	0.04514	-0.0454	32			
OKGE	MUSKOGEE 345KV	20	-0.0003	OKGE	FPLWIND2 34KV	102	0.04514	-0.04544	32			
OKGE	SOONER 138KV	24.99997	0.00148	OKGE	FPLWIND2 34KV	102	0.04514	-0.04366	33			
OKGE	SOUTH 4TH ST 69KV	42.7	0.00914	OKGE	FPLWIND2 34KV	102	0.04514	-0.036	40			

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: WOODWARD - WOODWARD 69KV CKT 1
 Limiting Facility: WOODWARD - WOODWARD 69KV CKT 1
 Direction: From->To

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

Line Outage: FPL SWITCH - WOODWARD 138KV CKT 1
 Flowgate: 56096547821557855478511207SP
 Date Redispatch Needed: 6/1/07 - 10/1/07
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount							
1086238	1.4	1.4							
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
OKGE	WOODWARD 24KV	9.3	-0.44657	OKGE	AES 161KV	320	-0.00021	-0.44636	3
OKGE	WOODWARD 24KV	9.3	-0.44657	OKGE	FPLWIND2 34KV	17.0034	0.04514	-0.49171	3
OKGE	WOODWARD 24KV	9.3	-0.44657	OKGE	HORSESHOE LAKE 138KV	91	-0.00148	-0.44509	3
OKGE	WOODWARD 24KV	9.3	-0.44657	OKGE	HORSESHOE LAKE 138KV	248.8135	-0.00148	-0.44509	3
OKGE	WOODWARD 24KV	9.3	-0.44657	OKGE	HORSESHOE LAKE 138KV	380	-0.00148	-0.44509	3
OKGE	WOODWARD 24KV	9.3	-0.44657	OKGE	HORSESHOE LAKE 69KV	16	-0.00141	-0.44516	3
OKGE	WOODWARD 24KV	9.3	-0.44657	OKGE	MCCLAIN 138KV	478	-0.0023	-0.44427	3
OKGE	WOODWARD 24KV	9.3	-0.44657	OKGE	MUSKOGEE 345KV	1516	-0.0003	-0.44627	3
OKGE	WOODWARD 24KV	9.3	-0.44657	OKGE	MUSTANG 138KV	365.5	-0.00236	-0.44421	3
OKGE	WOODWARD 24KV	9.3	-0.44657	OKGE	MUSTANG 69KV	106	-0.00255	-0.44402	3
OKGE	WOODWARD 24KV	9.3	-0.44657	OKGE	ONE OAK 345KV	75	-0.00097	-0.4456	3
OKGE	WOODWARD 24KV	9.3	-0.44657	OKGE	SEMINOLE 138KV	474.0645	-0.0011	-0.44547	3
OKGE	WOODWARD 24KV	9.3	-0.44657	OKGE	SEMINOLE 345KV	996	-0.00114	-0.44543	3
OKGE	WOODWARD 24KV	9.3	-0.44657	OKGE	SMITH COGEN 138KV	110	-0.00223	-0.44434	3
OKGE	WOODWARD 24KV	9.3	-0.44657	OKGE	SOONER 138KV	505	0.00148	-0.44805	3
OKGE	WOODWARD 24KV	9.3	-0.44657	OKGE	SOONER 345KV	513	0.00067	-0.44724	3
WFEC	ANADARKO 138KV	7.305183	0.0001	WFEC	SLEEPING BEAR 138KV	16	0.08953	-0.08943	16
WFEC	ANADARKO 138KV	90	0.0001	WFEC	SLEEPING BEAR 138KV	16	0.08953	-0.08943	16
WFEC	ANADARKO 69KV	76	0.00019	WFEC	SLEEPING BEAR 138KV	16	0.08953	-0.08934	16
WFEC	BLUCAN14 138 138KV	151.2	0.00032	WFEC	SLEEPING BEAR 138KV	16	0.08953	-0.08921	16
WFEC	ANADARKO 138KV	90	0.0001	WFEC	MORLND 138KV	280.4839	0.04514	-0.04504	32
WFEC	ANADARKO 69KV	76	0.00019	WFEC	MORLND 138KV	280.4839	0.04514	-0.04495	32
WFEC	BLUCAN14 138 138KV	151.2	0.00032	WFEC	MORLND 138KV	280.4839	0.04514	-0.04482	32
WFEC	MORLND 138KV	39.51605	0.04514	WFEC	SLEEPING BEAR 138KV	16	0.08953	-0.04439	32

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: WOODWARD - WOODWARD 69KV CKT 1
 Limiting Facility: WOODWARD - WOODWARD 69KV CKT 1
 Direction: From->To
 Line Outage: FPL SWITCH - WOODWARD 138KV CKT 1
 Flowgate: 56096547821557855478511208SP
 Date Redispatch Needed: Starting 2008 6/1 - 10/1 Until EOC
 Season Flowgate Identified: 2008 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount							
1086238	1.6	1.6							
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
OKGE	WOODWARD 24KV	9.3	-0.45023	OKGE	AES 161KV	320	-0.00021	-0.45002	3
OKGE	WOODWARD 24KV	9.3	-0.45023	OKGE	FPLWIND2 34KV	23.001	0.04621	-0.49644	3
OKGE	WOODWARD 24KV	9.3	-0.45023	OKGE	HORSESHOE LAKE 138KV	380	-0.0015	-0.44873	3
OKGE	WOODWARD 24KV	9.3	-0.45023	OKGE	HORSESHOE LAKE 138KV	91	-0.0015	-0.44873	3
OKGE	WOODWARD 24KV	9.3	-0.45023	OKGE	HORSESHOE LAKE 138KV	380.5	-0.0015	-0.44873	3
OKGE	WOODWARD 24KV	9.3	-0.45023	OKGE	HORSESHOE LAKE 69KV	16	-0.00143	-0.44888	3
OKGE	WOODWARD 24KV	9.3	-0.45023	OKGE	MCCLAIN 138KV	478	-0.00219	-0.44804	3
OKGE	WOODWARD 24KV	9.3	-0.45023	OKGE	MUSKOGEE 161KV	166	-0.00028	-0.44997	3
OKGE	WOODWARD 24KV	9.3	-0.45023	OKGE	MUSKOGEE 345KV	1516	-0.0003	-0.44993	3
OKGE	WOODWARD 24KV	9.3	-0.45023	OKGE	MUSTANG 138KV	365.5	-0.00239	-0.44784	3
OKGE	WOODWARD 24KV	9.3	-0.45023	OKGE	MUSTANG 69KV	106	-0.00258	-0.44785	3
OKGE	WOODWARD 24KV	9.3	-0.45023	OKGE	ONE OAK 345KV	75	-0.00097	-0.44926	3
OKGE	WOODWARD 24KV	9.3	-0.45023	OKGE	SEMINOLE 138KV	475.4903	-0.0011	-0.44913	3
OKGE	WOODWARD 24KV	9.3	-0.45023	OKGE	SEMINOLE 345KV	996	-0.00115	-0.44908	3
OKGE	WOODWARD 24KV	9.3	-0.45023	OKGE	SMITH COGEN 138KV	110	-0.00227	-0.44796	3
OKGE	WOODWARD 24KV	9.3	-0.45023	OKGE	SOONER 138KV	505	0.00148	-0.45171	3
OKGE	WOODWARD 24KV	9.3	-0.45023	OKGE	SOONER 345KV	513	0.00067	-0.4509	3
OKGE	WOODWARD 24KV	9.3	-0.45023	OKGE	TINKER 5G 138KV	61.49805	-0.0015	-0.44873	3
WFEC	ANADARKO 138KV	7.851967	0.00009	WFEC	SLEEPING BEAR 138KV	16	0.09689	-0.0968	16
WFEC	ANADARKO 138KV	90	0.00009	WFEC	SLEEPING BEAR 138KV	16	0.09689	-0.0968	16
WFEC	ANADARKO 69KV	76	0.00016	WFEC	SLEEPING BEAR 138KV	16	0.09689	-0.09673	16
WFEC	BLUCAN14 138 138KV	151.2	0.00031	WFEC	SLEEPING BEAR 138KV	16	0.09689	-0.09658	16
WFEC	MORLND 138KV	21.45422	0.04621	WFEC	SLEEPING BEAR 138KV	16	0.09689	-0.05068	31
WFEC	ANADARKO 138KV	90	0.00009	WFEC	MORLND 138KV	298.5458	0.04621	-0.04612	34
WFEC	ANADARKO 69KV	76	0.00016	WFEC	MORLND 138KV	298.5458	0.04621	-0.04605	34
WFEC	BLUCAN14 138 138KV	151.2	0.00031	WFEC	MORLND 138KV	298.5458	0.04621	-0.0459	34

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: YOAKUM COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1 Displacement
 Limiting Facility: YOAKUM COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1
 Direction: To->From
 Line Outage: MUSTANG STATION 230/115KV TRANSFORMER CKT 1
 Flowgate: 51890518911519695196614407SP
 Date Redispatch Needed: 6/1/07 - 10/1/07
 Season Flowgate Identified: 2007 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount							
1090487	12.6	12.6							
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
SPS	LP-BRND2 69KV	152	-0.01329	SPS	MUSTG5 118.0 230KV	360	0.1552	-0.16849	75
SPS	NICHOLS 230KV	97	0.00496	SPS	MUSTG5 118.0 230KV	360	0.1552	-0.15024	84
SPS	PLANTX 115KV	32.61719	0.00643	SPS	MUSTG5 118.0 230KV	360	0.1552	-0.14877	85
SPS	TOLK 230KV	46.90909	0.01771	SPS	MUSTG5 118.0 230KV	360	0.1552	-0.13749	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

Table 7: Deferred Expansion Plan Projects

Transmission 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	2		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	2	\$ 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	2	\$ 27,500,000	6/1/2016		
SPS	BOOKER 69KV Deferred	Install 1 - 7.2 MVar capacitor bank at Booker 69 kV	1		4/1/2007	6/1/2016	\$ 200,000
SPS	Hitchland 345 and 115 kV Interchange	Three breaker 345 kV bus, 345/115 kV transformer, five 115 kV breakers.	1	\$ 14,795,676	4/1/2007		
SPS	NICHOLS STATION 230/115KV TRANSFORMER CKT 1 Deferred	Upgrade 230/115 kV Transformer with 252 MVA	1		4/1/2007	6/1/2011	\$ 3,000,000
SPS	NICHOLS STATION 230/115KV TRANSFORMER CKT 2 Deferred	Upgrade 230/115 kV Transformer with 252 MVA	1		4/1/2007	6/1/2011	\$ 3,000,000
SPS	PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 2 Deferred	Rebuild Line	1		4/1/2007	6/1/2012	\$ 4,300,000
SPS	Tex-Hitchland-Sherman Tap 115 kV ckt	Route Sherman Tap to Texas Co in/out of New Hitchland Interchange	1	\$ 2,401,645	4/1/2007		

Note: Within a deferral group, the expansion plan upgrade(s) that were deferred as a result of a requested upgrade are so noted.