

Aggregate Facility Study SPP-2005-AG2-AFS-1 For Transmission Service Requested by Aggregate Transmission Customers

SPP Engineering, SPP Tariff Studies

SPP AGGREGATE FACILITY STUDY (SPP-2005-AG2-AFS-1) January 11, 2006 (Revision January 13, 2006)

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1. Executive Summary

Pursuant to Attachment Z of the Southwest Power Pool Open Access Transmission Tariff (OATT), 2312 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 \$212,763,698. Additionally \$49,000,000 of assigned E & C cost for 3rd party facility upgrades are assignable to the customer. The total upgrade levelized revenue requirement for all transmission requests is \$826,089,478. This is based on full allocation of levelized revenue requirements for upgrades to customers without consideration of base plan funding. The AFS data tables reflect the full allocation of upgrade costs to customers based on either the requested reservation period or the deferred reservation period if applicable. Total upgrade levelized revenue requirements for all transmission requests

for all transmission requests after consideration of potential base plan funding is \$235,913,108.

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, two third-party facilities were identified. Total engineering and construction cost estimates for required third-party facility upgrades are \$49,000,000.

The Transmission Provider will tender Letter Agreements and accept OASIS reservations on Wednesday, January 11, 2006. This will open a 15-day window for Customer response. To complete the request for Transmission Service, the Transmission Provider must receive from the Transmission Customer (Customer) by January 26th, 2006, an executed Letter Agreement. The Letter Agreement will list options the Customer must choose to clarify their commitment to remain in the Aggregate Transmission Service Study (ATSS). The Customer must also confirm this request on the Transmission Provider's OASIS pursuant to the results of this Facilities Study coincident to the same 15 day time increment for execution of the letter agreement.

For those remaining in the Aggregate Transmission Service Study (ATSS), Service Agreements for each request for service will be tendered in the near future identifying the decision made by the Customer.

If customers withdraw from the ATSS after posting of this AFS, the AFS will be reperformed to determine cost allocation and Available Transmission Capability (ATC) in consideration of the remaining ATSS participants. All allocated revenue requirements for

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facility upgrades are assigned to the customer in the AFS data tables. Potential base plan funding allowable is contingent upon final approval of designated resources meeting Attachment J, Section III B criteria.

On January 21, 2005, the Federal Energy Regulatory Commission accepted Southwest

2. Introduction

(ATSS).

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 second open season commenced on June 1, 2005. All requests for long-term transmission service received prior to October 1, 2005 with a signed

Approximately 2312MW of long-term transmission service has been restudied in this Aggregate Facility Study (AFS) with over \$212 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:

study agreement were then included in the second Aggregate Transmission Service Study

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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. None were identified in this AFS.

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 and not only by 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

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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 that may 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 chooses Option 3, Redispatch, in the Letter Agreement sent coincident with this AFS, the present worth analysis will be re-performed with the original reservation period in the final AFS. The upgrade levelized revenue requirement includes interest, depreciation, and carrying costs.

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

B. Third-Party Facilities

For third-party facilities listed in Table 5 and Table 3, 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, two third-party facilities were identified. Total engineering and construction cost estimates for required third-party facility upgrades are \$49,000,000. The Transmission Provider will undertake reasonable efforts to assist the Transmission Customer in making arrangements for necessary engineering, permitting, and construction of the third-party facilities. Third-party facility upgrade engineering and construction cost estimates are not utilized to determine the present worth value of levelized revenue requirements for SPP system network upgrades.

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

3. Study Methodology

A. Description

The system impact analysis was conducted to determine the steady-state impact of the requested service on the SPP and first tier Non - SPP control area systems. The steady-state analysis was done to ensure current SPP Criteria and NERC Reliability Standards requirements are fulfilled. The Southwest Power Pool conforms to the NERC Reliability Standards, which provide the strictest requirements, related to voltage violations and thermal overloads during normal conditions and during a contingency. It requires that all facilities be within normal operating ratings for normal system conditions and within

emergency ratings after a contingency. Normal operating ratings and emergency operating ratings monitored are Rate A and B in the SPP MDWG models, respectively. The upper bound and lower bound of the normal voltage range monitored is 105% and 95%. The upper bound and lower bound of the emergency voltage range monitored is 110% and 90%. The SPS Tuco 230 kV bus voltage is monitored at 92.5% due to pre-determined system stability limitations.

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

A 3 % transfer distribution factor (TDF) cutoff was applied to all SPP control area facilities. For first tier Non – SPP control area facilities, a 3 % TDF cutoff was applied to AECI, AMRN, and ENTR and a 2 % TDF cutoff was applied to MEC, NPPD, and OPPD. For voltage monitoring, a 0.02 per unit change in voltage must occur due to the transfer or modeling upgrades to be considered a valid limit to the transfer.

B. Model Development

SPP used twelve seasonal models to study the aggregate transfers of 2312 MW over a variety of requested service periods. The SPP MDWG 2005 Series Cases Update 4 2005/06 Winter Peak (05WP), 2006 April Minimum (06AP), 2006 Spring Peak (06G), 2006 Summer Shoulder (06SH), 2006 Summer Peak (06SP), 2006 Fall Peak (06FA), 2006/07 Winter Peak (06WP), 2007 Summer Peak (07SP), 2007/08 Winter Peak (07WP),

2010 Summer Peak (10SP), 2010/11 Winter Peak (10WP), and 2015 Summer Peak (15SP) 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 2312 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 2005 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 2005 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 2005 Series Cases flowing in a West to East direction with ERCOT net importing and SPS importing from an outside zone and importing from the Lamar HVDC Tie. 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

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 confirmed service or 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 10 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

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Transmission (MUST). From the generation shift factors for the incremental and decremental units, top 100 relief pairs with a greater than 3% TDF were determined from the incremental units with the lowest generation shift factors and decremental units with highest generation shift factors. The potential relief pairs were not evaluated to determine impacts on limiting facilities in the SPP and 1st-Tier systems.

4. Study Results

A. Study Analysis Results

Tables 1 through 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 and the minimum annual allocated ATC without upgrades and season of first impact. The deferred dates of the reservation are given both with and without redispatch that may be available for limitations that are deferring the start of service. Table 2 identifies total E & C cost allocated to each Transmission Customer, 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 in consideration of potential base plan funding, point-to-point base rate charge, total revenue requirements for assigned upgrades over the term of the reservation, 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. Table 4 lists all upgrade requirements with associated solutions needed to provide transmission service for the AFS, 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

potential redispatch pairs available to relieve the aggregate impacts on identified constraints to prevent deferral of start of service.

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

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

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

B. Study Definitions

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

5. Conclusion

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

The Transmission Provider will tender Letter Agreements and accept OASIS reservations on Wednesday, January 11, 2006. This will open a 15-day window for Customer response. To complete the request for Transmission Service, the Transmission Provider must receive from the Transmission Customer (Customer) by January 26th, 2006, an executed Letter Agreement. The Letter Agreement will list options the Customer must choose to clarify their commitment to remain in the Aggregate Transmission Service Study

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Study (ATSS). The Customer must also confirm this request on the Transmission Provider's OASIS pursuant to the results of this Facilities Study coincident to the same 15 day time increment for execution of the letter agreement.

The Transmission Provider must receive an unconditional and irrevocable letter of credit upon the Transmission Customer's execution of the Service Agreement. 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

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

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

ACCC CASES:

Solutions – AC contingency checking (ACCC)

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

Newton Solution:

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

<u>Table 1</u> - Long-Term Transmission Service Requests Included in Aggregate Facility Study

												Mimimum Allocated	Season of Minimum
					Requested	Requested	Requested	Deferred	Deferred	Start Date with	Stop Date with	ATC (MW) within	Allocated ATC within
Customer	Study Number	Reservation	POR	POD	Amount	Start Date	Stop Date	Start Date	Stop Date	Redispatch	Redispatch	reservation period	reservation period
CALP	SPP-2005-005D	826675	NPPD	ERCOTE	50	1/1/2006	1/1/2008	6/1/2008	6/1/2010	N/A	N/A	0	06SP
EDE	AG2-2005-021	973373	EES	EDE	50	1/1/2010	1/1/2030			N/A	N/A	0	10SP
EDE	AG2-2005-064	973355	KCPL	EDE	100	1/1/2010	1/1/2030			N/A	N/A	0	10SP
GSEC	AG2-2005-046	974618	SECI	SPS	300	5/1/2010	5/1/2040			N/A	N/A	0	10SP
GSEC	AG2-2005-046	987146	SECI	SPS	100	5/1/2010	5/1/2040			N/A	N/A	0	10SP
KMEA	AG2-2005-034	974592	GRDA	KCPL	9	5/1/2006	5/1/2026	10/1/2006	5/1/2026	N/A	N/A	0	06SP
KMEA	AG2-2005-035	974596	GRDA	KCPL	6	5/1/2006	5/1/2026	10/1/2006	5/1/2026	N/A	N/A	0	06SP
KMEA	SPP-2003-275	610383	GRDA	WR	5	5/1/2009	5/1/2010	10/1/2010	10/1/2011	5/1/2009	5/1/2010	0	10WP
KMEA	AG2-2005-039	974637	GRDA	WR	1	5/1/2009	5/1/2026			N/A	N/A	0	15SP
KMEA	AG2-2005-040	974645	GRDA	WR	2	5/1/2009	5/1/2026			N/A	N/A	2	N/A
KMEA	AG2-2005-041	974650	GRDA	WR	3	5/1/2009	5/1/2026			N/A	N/A	0	15SP
KMEA	AG2-2005-042	974656	GRDA	WR	3	5/1/2009	5/1/2026			N/A	N/A	0	10SP
KMEA	AG2-2005-043	974658	GRDA	WR	3	5/1/2006	5/1/2026	10/1/2006	5/1/2026	N/A	N/A	0	06SP
KMEA	AG2-2005-044	974660	GRDA	WR	3	5/1/2006	5/1/2026	12/1/2006	5/1/2026	10/1/2006	5/1/2026	0	06SP
KMEA	AG2-2005-045	974662	GRDA	WPEK	2	5/1/2006	5/1/2026	10/1/2010	5/1/2026	12/1/2006	5/1/2026	0	06SP
KMEA	AG2-2005-058	974976	GRDA	WPEK	3	5/1/2006	5/1/2026	12/1/2006	5/1/2026	N/A	N/A	0	10SP
KMEA	AG2-2005-059	974977	GRDA	WPEK	2	5/1/2010	5/1/2026			N/A	N/A	0	06SP
KMEA	AG2-2005-060	974987	GRDA	WR	2	5/1/2010	5/1/2026	10/1/2010	5/1/2026	N/A	N/A	0	10WP
KMEA	AG2-2005-061	974988	GRDA	WR	2	5/1/2006	5/1/2026	10/1/2010	5/1/2026	12/1/2006	5/1/2026	0	10WP
KMEA	AG2-2005-063	974926	GRDA	WPEK	1	5/1/2010	5/1/2026			N/A	N/A	0	06SP
OMPA	AG2-2005-067	974873	OKGE	CSWS	25	2/1/2006	2/1/2015	10/1/2006	10/1/2015	N/A	N/A	0	10SP
SHDY	AG2-2005-056	974688	OKGE	EES	320	1/8/2008	1/8/2009			N/A	N/A	320	N/A
SHDY	AG2-2005-057	974689	OKGE	CSWS	320	1/8/2008	1/8/2009			N/A	N/A	54	10SP
SPSM	AG2-2005-053	974790	CSWS	SPS	50	1/1/2007	1/1/2012			N/A	N/A	0	07SP
SPSM	AG2-2005-053	974791	CSWS	SPS	50	1/1/2007	1/1/2012			N/A	N/A	0	07SP
SPSM	AG2-2005-053	974793	CSWS	SPS	50	1/1/2007	1/1/2012			N/A	N/A	0	07SP
SPSM	AG2-2005-053	974797	CSWS	SPS	50	1/1/2007	1/1/2012			N/A	N/A	0	07SP
UCU	AG2-2005-004D	897453	CSWS	MPS	130	6/1/2007	6/1/2011	10/1/2007	10/1/2011	6/1/2007	6/1/2011	0	10SP
UCU	AG2-2005-078D	977013	WPEK	MPS	20	7/1/2006	7/1/2012	10/1/2006	10/1/2012	7/1/2006	7/1/2012	0	10SP
UCU	AG2-2005-078D	977014	WPEK	MPS	20	7/1/2006	7/1/2017	10/1/2006	10/1/2017	7/1/2006	7/1/2017	0	10SP
UCU	AG2-2005-079D	977015	WPEK	MPS	40	7/1/2006	7/1/2012	10/1/2007	10/1/2013	10/1/2006	10/1/2012	0	10SP
UCU	AG2-2005-079D	977018	WPEK	MPS	40	7/1/2006	7/1/2017	10/1/2007	10/1/2018	10/1/2006	10/1/2017	0	10SP
WFEC	AG2-2005-062	971951	WFEC	WFEC	250	5/1/2010	5/1/2035			N/A	N/A	0	10SP
WRGS	AG2-2005-032D	974561	OKGE	WR	300	1/1/2006	1/1/2021	10/1/2010	10/1/2025	1/1/2006	1/1/2021	0	06SH

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

			Engineering and Construction Cost	² Additional Engineering and Construction Cost of	⁵ Potential Base Plan Engineering and	Total Revenue Requirements for Assigned Upgrades over term of	Total Revenue Requirements for Assigned Upgrades over Term of	Point-to-Point Base	
			of Upgrades Allocated to Customer	Upgrades Assigned to	Construction Funding	reservation with potential base plan	Reservation without Potential	Rate over reservation	⁶ Total Cost of Reservation
Customer	Study Number	Reservation	for Revenue Requirements	Customer (3rd party)	Allowable	funding allocation	Base Plan Funding	period	Assignable to Customer
CALP	SPP-2005-005D	826675	\$ -	\$ 18,000,000	\$ -	\$ -	\$ -	\$ 1,260,000	\$ 19,260,000
EDE	AG2-2005-021	973373	\$ 2,740,134		1	\$ 6,917,321	\$ 6,917,321	\$ -	\$ 6,917,321
EDE	AG2-2005-064	973355	\$ 6,440,488	\$ 699,515	\$ 6,440,488 ¹	\$ -	\$ 16,935,105	\$ -	\$ 17,634,620
GSEC	AG2-2005-046	974618	\$ 83,642,684	\$ 17,813,055	\$ 54,000,000	\$ 138,330,373	\$ 390,326,451	\$ -	\$ 408,139,506
GSEC	AG2-2005-046	987146	\$ 24,294,292	\$ 5,730,257	\$ 18,000,000	\$ 29,165,167	\$ 112,569,782	\$ -	\$ 118,300,039
KMEA	AG2-2005-034	974592	\$ 2,186,087		\$ 1,620,000	\$ 2,124,679	\$ 8,204,980	\$	\$ 8,204,980
KMEA	AG2-2005-035	974596	\$ 612,808		\$ 612,808	\$ -	\$ 2,291,398	\$ -	\$ 2,291,398
KMEA	SPP-2003-275	610383	\$ 3,436,660		\$ -	\$ 8,325,064	\$ 8,325,064	\$ 78,000	\$ 8,325,064
KMEA	AG2-2005-039	974637	\$ 27,685		\$ -	\$ 56,605	\$ 56,605	\$ -	\$ 56,605
KMEA	AG2-2005-040	974645	\$ -		\$ -	\$ -	\$ -	\$ -	No upgrade assignments
KMEA	AG2-2005-041	974650	\$ 8,104	\$ -	\$ -	\$ 24,066	\$ 24,066	\$ 795,600	\$ 795,600
KMEA	AG2-2005-042	974656	\$ 8,062		\$ -	\$ 23,941	\$ 23,941	\$ 795,600	\$ 795,600
KMEA	AG2-2005-043	974658	\$ 1,147,967		\$ 540,000	\$ 1,330,444	\$ 2,512,153	7,	\$ 2,512,153
KMEA	AG2-2005-044	974660	\$ 8,411		\$ 8,411	-	\$ 22,647	\$ 936,000	\$ 936,000
KMEA	AG2-2005-045	974662	\$ 882,618		\$ 360,000	\$ 2,227,696	\$ 3,762,221	\$ 469,440	\$ 3,762,221
KMEA	AG2-2005-058	974976	\$ 10,438		\$ 10,438	\$ -	\$ 28,807	. ,	*
KMEA	AG2-2005-059	974977	\$ 5,994		\$ 5,994	-	\$ 18,804	\$ 375,552	\$ 375,552
KMEA	AG2-2005-060	974987	\$ 997,299 \$ 997,299		\$ - \$ 360,000	\$ 4,252,049	\$ 4,252,049	\$ 499,200	\$ 4,252,049
KMEA	AG2-2005-061	974988	Ψ 001,200		Ψ 000,000	\$ 2,717,166	\$ 4,252,049	\$ 624,000	\$ 4,252,049
KMEA OMPA	AG2-2005-063 AG2-2005-067	974926 974873	\$ 2,786 \$ 5,135,896	\$ 71.146	\$ 2,786 \$ 4,500,000	\$ 945.405	\$ 8,741 \$ 7,635,683	\$ 187,776	\$ 187,776 \$ 7,706,829
SHDY	AG2-2005-067 AG2-2005-056	974688	\$ 5,135,896	71,146	\$ 4,500,000 e	\$ 945,405	\$ 7,030,083 e	\$ 3.264.000	\$ 7,706,829
SHDY	AG2-2005-056 AG2-2005-057	974689	\$ 153.693		\$ - e	\$ 212.001	\$ 212.001	\$ 4.032.000	\$ 3,264,000
SPSM	AG2-2005-057	974790	\$ 2.014.646		\$ 2.014.646	\$ -	\$ 3.135.571	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\$ 4,800,000
SPSM	AG2-2005-053	974791	\$ 2.014.646		\$ 2,014,646	\$ -	\$ 3.135.571	, , , , , , , , , , , , , , , , , , , ,	\$ 4,800,000
SPSM	AG2-2005-053	974793	\$ 2.014.646		\$ 2.014.646	\$ -	\$ 3,135,571	1	\$ 4,800,000
SPSM	AG2-2005-053	974797	\$ 2.014.646		\$ 2.014.646	\$ -	\$ 3,135,571		\$ 4.800,000
UCU		897453	\$ 4.250.729		\$ -	\$ 7.069.241	\$ 7.069.241	,	\$ 10.052.640
UCU	AG2-2005-078D	977013	\$ 1,539,941	\$ 927.981	\$ 360.000 ³	\$ 2.020,491	\$ 2.636.943	\$ 2.319.840	\$ 3,564,924
UCU	AG2-2005-078D	977014	\$ 1,539,941	\$ 927,981	\$ - ³	\$ 3.082.107	\$ 3,082,107	\$ 4.253.040	\$ 5,181,021
UCU	AG2-2005-079D	977015	\$ 3,794,334	\$ 1.919.866	\$ 720,000 ³	\$ 5,568,289	\$ 6.872.344	\$ 4,639,680	\$ 8.792.210
UCU	AG2-2005-079D	977018	\$ 3,794,334	\$ 1.919.866	\$ - 3	\$ 8.091,202	\$ 8.091,202	\$ 8,506,080	\$ 10.425.946
WFEC	AG2-2005-062	971951	\$ 21,320,056	\$ 990.333	\$ 17.100.000 ⁴	\$ 13,429,802	\$ 67.848.422	\$ -	\$ 68.838.755
WRGS		974561	\$ 35,726,374	- 230,000	\$ 35,726,374	\$ -	\$ 149,567,067	\$ -	\$ 149,567,067
			\$ 212,763,698	\$ 49,000,000		\$ 235,913,108	*		

Note 1. 2010 EMDE capacity is based on JEC renewed as a resource. Therefore, a maximum of 74MW of the 150MW of capacity requested can be considered for potential base plan funding.

Note 2. Additional Engineering and Construction costs assignable to customer based on 3rd party upgrades. These include 1st tier facilities outside SPP and Transmission Owner facilities within SPP that are not under the SPP OATT. (For example Sunflower Electric Cooperative)

Note 3. For UCU 20MW and 40MW requests, base plan funding is mutually exclusive to one or other of each request.

Note 4. For WFEC 250MW request, 95MW of requested capacity can be considered for base plan funding prior to meeting 125% cap of resource to load under SPP NITS.

Note 5. 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. Final approval of base plan funding is contingent upon verification of customer agreements for a 5 year or more committment of the designated resource.

Note 6. 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 III B criteria. Additionally, E & C of 3rc party upgrades is assignable to Customer. Revenue Requirements for 3rd party facilities are not calculated.

Customer Study Number
CALP SPP-2005-005D

Customer	Reservation	POR	POD	Requested Amount	Date	Date	Deferred Start Date		Potential Base Plan Funding Allowable	Base Rate	Allocated E & C Cost	Total Revenue Requirements
CALP	826675	NPPD	ERCOTE	50	1/1/2006	1/1/2008	6/1/2008	6/1/2010	\$ -	\$ 1,260,000		\$
									\$ -	\$ 1,260,000	\$ -	\$

						Total Revenue
Reservation	Upgrade Name	COD	EOC	Allocated E & C Cost	Total E & C Cost	Requirements
826675				\$ -	\$ -	\$ -
			Total	\$ -	\$ -	\$ -

The following facilities limit the renewal of the point-to-point request.

Reservation	Upgrade Name	COD	EOC
826675	3JNSBRO 115 - DANVILLE 115 (LPL) 115KV CKT 1	6/1/2010	6/1/2010
	FULTON - HOPE 115KV CKT 1	6/1/2010	6/1/2010

Third Party Limitations

D	Harrada Narra	COD	F00	Alloc	cated E & C Cost	_	otal E & C Cost
Reservation	Upgrade Name	COD	EUC	Alloc			
826675	3BISMRK - 3HSEHVW 115KV CKT 1	6/1/2006	6/1/2008	\$	18,000,000	\$	18,000,000
			Total	\$	18.000.000	\$	18.000.000

Customer Study Number EDE AG2-2005-021

					Requested Start	Requested Stop			Potential Base Plan			Total Revenue
Customer	Reservation	POR	POD	Requested Amount	Date	Date	Date	Date	Funding Allowable	Base Rate	Allocated E & C Cost	Requirements
EDE	973373	EES	EDE	50	1/1/2010	1/1/2030			\$ -	\$ -	\$ 2,740,134	\$
									\$ -	\$ -	\$ 2.740.134	\$ 6.917.321

						Total Revenue
Reservation	Upgrade Name	COD	EOC	Allocated E & C Cost	Total E & C Cost	Requirements
973373	Nichols St. Sub Bus - Nichols St. Sub 69KV	6/1/2013	6/1/2013	\$ 348,184	\$ 1,000,000	\$ 961,636
	SUB 110 - ORONOGO JCT SUB 167 - RIVERTON 161KV CKT 1	6/1/2015	6/1/2015	\$ 1,737,741	\$ 5,400,000	\$ 4,148,851
	SUB 110 - ORONOGO JCT. (ORONOGO) 161/69/12.5KV TRANSFORMER CKT 1	6/1/2013	6/1/2013	\$ 654,209	\$ 2,000,000	\$ 1,806,834
			Total	\$ 2.740.134	\$ 8,400,000	\$ 6.917.321

Reservation	Upgrade Name	COD	EOC
973373	BULL SHOALS - BULL SHOALS 161KV CKT 1 SWPA	6/1/2015	6/1/2015
	CLARKSVILLE - MUSKOGEE 345KV CKT 1 AEPW	6/1/2015	6/1/2015
	CLARKSVILLE - MUSKOGEE 345KV CKT 1 OKGE	6/1/2015	6/1/2015
	RIVERSIDE CAPACITOR	6/1/2013	6/1/2013
	SUB 389 - JOPLIN SOUTHWEST - SUB EXPLORER SPRING CITY TAP 69KV CKT 1	1/1/2010	6/1/2009
	SLIP 200 - IODI IN SOLITHWEST / IODI INSW/ 161/60/12 5KV/ TRANSCORMED CKT 1	6/1/2014	6/1/2014

Study Number EDE AG2-2005-064

Customer	Reservation	POR	POD	Requested Amount	Date	Date	Deferred Start Date	Potential Base Plan Funding Allowable	Point-to-Point Base Rate	Allocated E & C Cost	Total Revenue Requirements
EDE	973355	KCPL	EDE	100	1/1/2010	1/1/2030		\$ 6,440,488	\$ -	\$ 6,440,488	\$ -
								\$ 6,440,488	\$ -	\$ 6,440,488	\$ 16,935,105

						Total Revenue
Reservation	Upgrade Name	COD	EOC	Allocated E & C Cost	Total E & C Cost	Requirements
973355	Mooreland - Potter 345 kV SPS	5/1/2010	5/1/2010	\$ 122,117	\$ 61,850,000	\$ 438,475
	Mooreland - Potter 345 kV WFEC	5/1/2010	5/1/2010	\$ 4,936	\$ 2,500,000	\$ 12,855
	Mooreland 345/138 kV Transformer	5/1/2010	5/1/2010	\$ 240,377	\$ 5,000,000	\$ 863,101
	Nichols St. Sub Bus - Nichols St. Sub 69KV	6/1/2013	6/1/2013	\$ 651,816	\$ 1,000,000	\$ 1,800,225
	Potter - Tolk 345KV	5/1/2010	5/1/2010	\$ 224,979	\$ 36,377,173	\$ 807,812
	Spearville - Mooreland 345 kV WFEC	5/1/2010	5/1/2010	\$ 473,865	\$ 21,000,000	
	SUB 110 - ORONOGO JCT SUB 167 - RIVERTON 161KV CKT 1	6/1/2015	6/1/2015	\$ 3,376,607	\$ 5,400,000	
	SUB 110 - ORONOGO JCT. (ORONOGO) 161/69/12.5KV TRANSFORMER CKT 1	6/1/2013	6/1/2013	\$ 1,345,791	\$ 2,000,000	\$ 3,716,887
			Total	\$ 6,440,488	\$ 135,127,173	\$ 16,935,105

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
973355	166TH STREET - JAGGARD JUNCTION 115KV CKT 1	6/1/2013	6/1/2013
	BULL SHOALS - BULL SHOALS 161KV CKT 1 SWPA	6/1/2015	6/1/2015
	CLARKSVILLE - MUSKOGEE 345KV CKT 1 AEPW	6/1/2015	6/1/2015
	CLARKSVILLE - MUSKOGEE 345KV CKT 1 OKGE	6/1/2015	6/1/2015
	JEC - Swissvale 345KV	6/1/2011	6/1/2011
	RIVERSIDE CAPACITOR	6/1/2013	6/1/2013
	SUB 389 - JOPLIN SOUTHWEST - SUB EXPLORER SPRING CITY TAP 69KV CKT 1	1/1/2010	6/1/2009
	SUB 389 - JOPLIN SOUTHWEST (JOPLINSW) 161/69/12.5KV TRANSFORMER CKT 1	6/1/2014	6/1/2014

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

 Reservation
 Upgrade Name
 COD
 EOC

 973355
 166TH STREET - JARBALO JUNCTION SWITCHING STATION 115KV CKT 1
 6/1/2013
 6/1/2003

 TUCO INTERCHANGE 230KV
 6/1/2008
 6/1/2008

Third Party Limitations COD EOC Allo 5/1/2010 5/1/2010 \$ Allocated E & C Cost | To | \$ 699,515 | \$ Total E & C Cost \$ 31,000,000 tion Upgrade Name Spearville - Mooreland 345 kV SUNC 699,515 \$ Total \$

Study Number GSEC AG2-2005-046

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date		Base Plan Allowable		Allocated E & C Cos	
GSEC	974618	SECI	SPS	300	5/1/2010	5/1/2040			54,000,000		\$ 83,642,68	
GSEC	987146	SECI	SPS	100	5/1/2010	5/1/2040		\$	18,000,000	\$ -	\$ 24,294,29	2 \$ -
								\$	72,000,000	\$ -	\$ 107,936,97	6 \$502,896,232.33

						Total Revenue
Reservation	Upgrade Name	COD	EOC	Allocated E & C Cost	Total E & C Cost	Requirements
974618	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	6/1/2010	6/1/2010	\$ 279,429	\$ 1,000,000	\$ 1,344,796
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 OKGE	6/1/2010	6/1/2010	\$ 111,772	\$ 400,000	\$ 531,308
	LEA COUNTY INTERCHANGE 230KV CAPACITORS*	12/1/2010	12/1/2010	\$ 1,381,023		
	Mooreland - Potter 345 kV SPS	5/1/2010	5/1/2010	\$ 41,165,994	\$ 61,850,000	
	Mooreland - Potter 345 kV WFEC	5/1/2010	5/1/2010	\$ 1,663,945	\$ 2,500,000	\$ 5,249,727
	Mooreland 345/138 kV Transformer	5/1/2010	5/1/2010	\$ 2,075,325	\$ 5,000,000	\$ 10,310,951
	Potter - Tolk 345KV	5/1/2010	5/1/2010	\$ 24,898,288	\$ 36,377,173	\$ 123,703,533
	Spearville - Mooreland 345 kV WFEC	5/1/2010	5/1/2010	\$ 12,066,908	\$ 21,000,000	\$ 38,070,952
	SPS MUST RUN GENERATION #1*	12/1/2010	12/1/2010	\$ -	\$ -	\$
	SPS MUST RUN GENERATION #2*	12/1/2010	12/1/2006	\$ -	\$ -	\$
			Total	\$ 83,642,684	\$ 129,508,196	\$ 390,326,451
987146	Mooreland - Potter 345 kV SPS	5/1/2010	5/1/2010	\$ 14,922,605	\$ 61,850,000	\$ 74,140,799
	Mooreland - Potter 345 kV WFEC	5/1/2010	5/1/2010	\$ 603,177	\$ 2,500,000	\$ 1,903,016
	Mooreland 345/138 kV Transformer	5/1/2010	5/1/2010	\$ 489,052	\$ 5,000,000	\$ 2,429,784
	Potter - Tolk 345KV	5/1/2010	5/1/2010	\$ 4,397,671	\$ 36,377,173	\$ 21,849,191
	Spearville - Mooreland 345 kV WFEC	5/1/2010	5/1/2010	\$ 3,881,787	\$ 21,000,000	\$ 12,246,992
*LEA COUNT	Y INTERCHANGE 230 KV CAPACITORS is an alternative to SPS MUST GENERATION #1 and		Total	\$ 24,294,292	\$ 126,727,173	\$ 112,569,782

^{*}LEA COUNTY II #2 Requirement

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
974618	BEELINE - EXPLORER GLENPOOL 138KV CKT 1	6/1/2010	6/1/2010
	CROSBY INTERCHANGE 115/69KV TRANSFORMER CKT 1	6/1/2015	6/1/2015
	CROSBY INTERCHANGE 115/69KV TRANSFORMER CKT 2	6/1/2015	6/1/2015
	JEC - Swissvale 345KV	6/1/2011	6/1/2011
	YOAKUM COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2008	6/1/2008
987146	BC-EARTH INTERCHANGE 115KV	6/1/2015	6/1/2015
	CURRY COUNTY INTERCHANGE-ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	06/01/15	06/01/15
	MOORE COUNTY INTERCHANGE E - POTTER COUNTY INTERCHANGE 230 KV	06/01/15	06/01/15
	JEC - Swissvale 345KV	6/1/2011	6/1/2011

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

Reservation	Upgrade Name	COD	EOC
974618	Snyder - Altus Jct 138KV	6/1/2006	6/1/2008
	TUCO INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2008	6/1/2008
	TUCO INTERCHANGE 230KV	6/1/2008	6/1/2008
987146	Snyder - Altus Jct 138KV	6/1/2006	6/1/2008
	TUCO INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2008	6/1/2008
	TUCO INTERCHANGE 230KV	6/1/2008	6/1/2008

Third Party Limitations

Reservation	Upgrade Name	COD	EOC	Allocated E & C Cost	Total E & C Cost
974618	Spearville - Mooreland 345 kV SUNC	5/1/2010	5/1/2010	\$ 17,813,055	\$ 31,000,000
			Total	\$ 17,813,055	\$ 31,000,000
987146	Spearville - Mooreland 345 kV SUNC	5/1/2010	5/1/2010	\$ 5,730,257	\$ 31,000,000
			Total	\$ 5,730,257	\$ 31,000,000

Customer Study Number KMEA AG2-2005-034

Customer	Reservation	POR	POD	Requested Amount	Date	Date	Date	Date	Potential Base Plan Funding Allowable	Base Rate	Allocated E & C Cost	Total Revenue Requirements
KMEA	974592	GRDA	KCPL	9	5/1/2006	5/1/2026	10/1/2006	5/1/2026	\$ 1,620,000	\$ -	\$ 2,186,087	
									\$ 1,620,000	\$ -	\$ 2,186,087	\$ 8,204,980

						Total Revenue
Reservation	Upgrade Name	COD	EOC	Allocated E & C Cost	Total E & C Cost	Requirements
974592	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	6/1/2010	6/1/2010	\$ 14,219	\$ 1,000,000	\$ 35,923
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 OKGE	6/1/2010	6/1/2010	\$ 5,687	\$ 400,000	
	WEST GARDNER (WGARD 11) 345/161/13.8KV TRANSFORMER CKT 11	6/1/2006	10/1/2007	\$ 2,166,181	\$ 3,000,000	\$ 8,153,880
			Total	\$ 2,186,087	\$ 4,400,000	\$ 8,204,980

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
974592	BEELINE - EXPLORER GLENPOOL 138KV CKT 1	6/1/2010	6/1/2010
	JEC - Swissvale 345KV	6/1/2011	6/1/2011

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

Reservation	Upgrade Name	COD	EOC
974592	412SUB - KANSAS TAP 161KV CKT 1	6/1/2015	6/1/2015
	412SUB - KERR 161KV 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
974592	AEPW PLANNED UPGRADE FOR NW ARKANSAS	6/1/2006	6/1/2009
	LACYGNE - PAOLA 345KV CKT 1	6/1/2015	6/1/2006

Customer Study Number KMEA AG2-2005-035

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Date	Potential Base Plan Funding Allowable	Base Rate	Allocated E & C Cost	Total Revenue Requirements
KMEA	974596	GRDA	KCPL	6	5/1/2006	5/1/2026	10/1/2006	5/1/2026	\$ 612,808	\$ -	\$ 612,808	\$ -
									\$ 612,808	\$ -	\$ 612,808	\$ 2,291,398

						Total Revenue
Reservation	Upgrade Name	COD	EOC	Allocated E & C Cost	Total E & C Cost	Requirements
974596	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	6/1/2010	6/1/2010	\$ 9,139	\$ 1,000,000	\$ 23,089
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 OKGE	6/1/2010	6/1/2010	\$ 3,656	\$ 400,000	\$ 9,756
	WEST GARDNER (WGARD 11) 345/161/13.8KV TRANSFORMER CKT 11	6/1/2006	10/1/2007	\$ 600,013	\$ 3,000,000	\$ 2,258,553
			Total	\$ 612,808	\$ 4,400,000	\$ 2,291,398

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
974596	BEELINE - EXPLORER GLENPOOL 138KV CKT 1	6/1/2010	6/1/2010
	JEC - Swissvale 345KV	6/1/2011	6/1/2011

Credits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.									
Reservation	Upgrade Name	COD	EOC						
974596	412SUB - KANSAS TAP 161KV CKT 1	6/1/2015	6/1/2015						
	443CLID VEDD 464VV CVT 4	C/1/201E	C/1/201E						

Reservation	Upgrade Name	COD	EOC
974596	AEPW PLANNED UPGRADE FOR NW ARKANSAS	6/1/2006	6/1/2009
	LACYGNE - PAOLA 345KV CKT 1	6/1/2015	6/1/2006

Customer Study Number KMEA SPP-2003-275

Customer	Reservation	POR	POD	Requested Amount	Date	Date	Date	Date	Potential Base Plan Funding Allowable	Base Rate	Allocated E & C Cost	Total Revenue Requirements
KMEA	610383	GRDA	WR	5	5/1/2009	5/1/2010	10/1/2010	10/1/2011	\$ -	\$ 78,000	\$ 3,436,660	\$ -
									\$ -	\$ 78,000	\$ 3,436,660	\$ 8,325,064

						Total Revenue
Reservation	Upgrade Name	COD	EOC	Allocated E & C Cost	Total E & C Cost	Requirements
610383	BUCYRUS - STILWELL 161KV CKT 1	6/1/2010	6/1/2010	\$ 66	\$ 9,000	\$ 138
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	6/1/2010	6/1/2010	\$ 11,740	\$ 1,000,000	\$ 20,757
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 OKGE	6/1/2010	6/1/2010	\$ 4,696	\$ 400,000	
	Wichita - Reno Co 345KV	4/1/2006	10/1/2010	\$ 3,420,158	\$ 42,000,000	\$ 8,295,114
			Total	\$ 3,436,660	\$ 43,409,000	\$ 8,325,064

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
610383 BEELINE - EXPLORER GLENPOOL 138KV CKT 1 6/1/2010 6/1/2010

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

Reservation Upgrade Name COD EOC
610383 TUCO INTERCHANGE 230KV 6/1/2008 6/1/2008

Customer Study Number AG2-2005-039

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Potential Base Plan Funding Allowable		Allocated E & C Cost	Total Revenue Requirements
KMEA	974637	GRDA	WR	1	5/1/2009	5/1/2026		\$ -	\$ -	\$ 27,685	\$ -
								\$ -	\$ -	\$ 27.685	\$ 56,605

						Total Revenue
Reservation	Upgrade Name	COD	EOC	Allocated E & C Cost	Total E & C Cost	Requirements
974637	SUB 110 - ORONOGO JCT SUB 167 - RIVERTON 161KV CKT 1	6/1/2015	6/1/2015	\$ 27,685	\$ 5,400,000	\$ 56,605
			Total	\$ 27,685	\$ 5,400,000	\$ 56,605

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

Reservation Upgrade Name COD EOC
974637 412SUB - KANSAS TAP 161KV CKT 1 6/1/2015 6/1/2015
412SUB - KERR 161KV CKT 1 6/1/2015 6/1/2015

Customer Study Number KMEA AG2-2005-040

Customer	Reservation	POR	POD	Requested Amount		Requested Stop Date	Deferred Start Date	Potential Base Plan Funding Allowable		Allocated E & C Cost	Total Revenue Requirements	
KMEA	974645	GRDA	WR	2	5/1/2009	5/1/2026		\$ -	\$ -	\$ -	\$	Ξ
								\$ -	\$ -	\$ -	\$	7

						Total Revenue
Reservation	Upgrade Name	COD	EOC	Allocated E & C Cost	Total E & C Cost	Requirements
974645				\$ -	\$ -	\$ -
			Total	\$ -	\$ -	\$ -

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

Reservation Upgrade Name COD EOC FOR 1974645 412SUB - KANSAS TAP 161KV CKT 1 6/1/2015 6/1/2015 6/1/2015 412SUB - KERR 161KV CKT 1

Customer Study Number AG2-2005-041 KMEA

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Potential Base Plan Funding Allowable	Base Rate	Allocated E & C Cost	Total Revenue Requirements
KMEA	974650	GRDA	WR	3	5/1/2009	5/1/2026		\$ -	\$ 795,600	\$ 8,104	\$
								\$ -	\$ 795,600	\$ 8,104	\$ 24,066

						Total Revenue
Reservation	Upgrade Name	COD	EOC	Allocated E & C Cost	Total E & C Cost	Requirements
974650	BUCYRUS - STILWELL 161KV CKT 1	6/1/2010	6/1/2010	\$ 57	\$ 9,000	\$ 186
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	6/1/2010	6/1/2010	\$ 5,748	\$ 1,000,000	\$ 16,902
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 OKGE	6/1/2010	6/1/2010	\$ 2,299	\$ 400,000	\$ 6,977
			Total	\$ 8104	\$ 1,409,000	\$ 24,066

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
974650	BEELINE - EXPLORER GLENPOOL 138KV CKT 1	6/1/2010	6/1/2010
	JEC - Swissvale 345KV	6/1/2011	6/1/2011

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

Reservation Upgrade Name COD EOC
974650 412SUB - KANSAS TAP 161KV CKT 1 6/1/2015 6/1/2015
412SUB - KERR 161KV CKT 1 6/1/2015

Customer Study Number KMEA AG2-2005-042

Customer	Reservation	POR	POD	Requested Amount	Date	Date	Deferred Start Date	Potential Base Plan Funding Allowable		Allocated E & C Cost	Total Revenue Requirements
KMEA	974656	GRDA	WR	3	5/1/2009	5/1/2026		\$ -	\$ 795,600	\$ 8,062	\$
								\$ -	\$ 795,600	\$ 8,062	\$ 23,941

						Total Revenue
Reservation	Upgrade Name	COD	EOC	Allocated E & C Cost	Total E & C Cost	Requirements
974656	BUCYRUS - STILWELL 161KV CKT 1	6/1/2010	6/1/2010	\$ 57	\$ 9,000	\$ 186
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	6/1/2010	6/1/2010	\$ 5,718		
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 OKGE	6/1/2010	6/1/2010	\$ 2,287	\$ 400,000	\$ 6,941
			Total	\$ 8,062	\$ 1,409,000	\$ 23,941

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
974656	27TH & CROCO - TECUMSEH HILL 115KV	6/1/2010	6/1/2010
	27TH & CROCO JUNCTION - 41ST & CALIFORNIA 115KV	6/1/2010	6/1/2010
	BEELINE - EXPLORER GLENPOOL 138KV CKT 1	6/1/2010	6/1/2010
	IEC - Swiggryalo 245KV	6/1/2011	6/1/2011

Credits may b	e required for the following network upgrades directly assigned to transmission customers in previous	ous aggregat	e study.
Reservation	Upgrade Name	COD	EOC
974656	412SUB - KANSAS TAP 161KV CKT 1	6/1/2015	6/1/2015
	412SUB - KERR 161KV 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
974656	LACYGNE - PAOLA 345KV CKT 1	6/1/2015	6/1/2006
	TUCO INTERCHANGE 230KV	6/1/2008	6/1/2008

Customer Study Number KMEA AG2-2005-043

						Requested Stop						Total Revenue
Customer	Reservation	POR	POD	Requested Amount	Date	Date	Date	Date	Funding Allowable	Base Rate	Allocated E & C Cost	Requirements
KMEA	974658	GRDA	WR	3	5/1/2006	5/1/2026	10/1/2006	5/1/2026	\$ 540,000	\$ 936,000	\$ 1,147,967	\$ -
							•		\$ 540,000	\$ 936,000	\$ 1,147,967	\$ 2,512,153

						Total Revenue
Reservation	Upgrade Name	COD	EOC	Allocated E & C Cost	Total E & C Cost	Requirements
974658	AFTON (AFTAUTO1) 161/69/13.8KV TRANSFORMER CKT 1	12/1/2010	12/1/2010	\$ 890,000	\$ 890,000	\$ 2,053,876
	SUB 110 - ORONOGO JCT SUB 167 - RIVERTON 161KV CKT 1	6/1/2015	6/1/2015	\$ 257,967	\$ 5,400,000	\$ 458,277
			Total	\$ 1,147,967	\$ 6,290,000	\$ 2,512,153

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	l
974658	NEOSHO\ 138/69/12.47KV TRANSFORMER	6/1/2009	6/1/2009	l

Credits may b	e required for the following network upgrades directly assigned to transmission customers in previ	ous aggregat	e study.
Reservation	Upgrade Name	COD	EOC
974658	412SUB - KANSAS TAP 161KV CKT 1	6/1/2015	6/1/2015
	412SUB - KERR 161KV CKT 1	6/1/2015	6/1/2015

Reservation	Upgrade Name	COD	EOC
974658	AEPW PLANNED UPGRADE FOR NW ARKANSAS	6/1/2006	6/1/2009

Customer Study Number KMEA AG2-2005-044

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Date	Date	Date	Funding Allowable	Base Rate	Allocated E & C Cost	Total Revenue Requirements
KMEA	974660	GRDA	WR	3	5/1/2006	5/1/2026	12/1/2006	5/1/2026	\$ 8,411	ψ 000,000		\$ -
									\$ 8,411	\$ 936,000	\$ 8,411	\$ 22,647

						Total Revenue
Reservation	Upgrade Name	COD	EOC	Allocated E & C Cost	Total E & C Cost	Requirements
974660	BUCYRUS - STILWELL 161KV CKT 1	6/1/2010	6/1/2010	\$ 54	\$ 9,000	\$ 157
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	6/1/2010	6/1/2010	\$ 5,475	\$ 1,000,000	\$ 13,970
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 OKGE	6/1/2010	6/1/2010		\$ 400,000	
	WEST GARDNER (WGARD 11) 345/161/13.8KV TRANSFORMER CKT 11	6/1/2006	10/1/2007	\$ 692	\$ 3,000,000	\$ 2,626
			Total	\$ 8 411	\$ 4409,000	\$ 22 647

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
974660	BEELINE - EXPLORER GLENPOOL 138KV CKT 1	6/1/2010	6/1/2010
	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	6/1/2006	4/1/2007
	JEC - Swissvale 345KV	6/1/2011	6/1/2011
	TECUMSEH HILL () 161/115/13.8KV TRANSFORMER CKT 1	6/1/2010	6/1/2010

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

 Reservation
 Upgrade Name
 COD
 EOC

 974660
 412SUB - KANSAS TAP 161KV CKT 1
 6/1/2015
 6/1/2015
 6/1/2015

 412SUB - KERR 161KV CKT 1
 6/1/2015
 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
974660	AEPW PLANNED UPGRADE FOR NW ARKANSAS	6/1/2006	6/1/2009
	LACYGNE - PAOLA 345KV CKT 1	6/1/2015	6/1/2006
	TUCO INTERCHANGE 230KV	6/1/2008	6/1/2008

Customer Study Number KMEA AG2-2005-045

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date		Potential I			Allocated E & C Cost	Total Revenue Requirements
KMEA	974662	GRDA	WPEK	2	5/1/2006	5/1/2026	10/1/2010	5/1/2026	\$	360,000	\$ 469,440	\$ 882,618	\$ -
									\$	360,000	\$ 469,440	\$ 882,618	\$ 3,762,221

						Total Revenue
Reservation	Upgrade Name	COD	EOC	Allocated E & C Cost	Total E & C Cost	Requirements
974662	BUCYRUS - STILWELL 161KV CKT 1	6/1/2010	6/1/2010	\$ 25	\$ 9,000	\$ 87
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	6/1/2010	6/1/2010	\$ 5,170	\$ 1,000,000	\$ 16,495
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 OKGE	6/1/2010	6/1/2010	\$ 2,068	\$ 400,000	\$ 6,727
	WEST GARDNER (WGARD 11) 345/161/13.8KV TRANSFORMER CKT 11	6/1/2006	10/1/2007	\$ 566	\$ 3,000,000	\$ 2,587
	Wichita - Reno Co 345KV	4/1/2006	10/1/2010	\$ 874,789	\$ 42,000,000	\$ 3,736,325
			Total	\$ 882,618	\$ 46,409,000	\$ 3,762,221

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
974662	BEELINE - EXPLORER GLENPOOL 138KV CKT 1	6/1/2010	6/1/2010
	HEIZER - KNOLL 230KV	6/1/2010	6/1/2010

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

 Reservation
 Upgrade Name
 COD
 EOC

 974662
 412SUB - KANSAS TAP 161KV CKT 1
 6/1/2015
 6/1/2015

 412SUB - KERR 161KV CKT 1
 6/1/2015
 6/1/2015

Reservation	Upgrade Name	COD	EOC
974662	AEPW PLANNED UPGRADE FOR NW ARKANSAS	6/1/2006	6/1/2009
	HEC-HEC GT-Circle 115KV	6/1/2007	4/1/2006
	LACYGNE - PAOLA 345KV CKT 1	6/1/2015	6/1/2006
	PLAINVILLE CAPACITOR	6/1/2006	6/1/2007
	TUCO INTERCHANGE 230KV	6/1/2008	6/1/2008

Customer Study Number KMEA AG2-2005-058

Customer	Reservation	POR	POD	Requested Amount	Date	Date	Date	Date	Funding Allowable	Base Rate	Allocated E & C Cost	Total Revenue Requirements
KMEA	974976	GRDA	WPEK	3	5/1/2006	5/1/2026	12/1/2006	5/1/2026	\$ 10,438		+,	\$ -
									\$ 10,438	\$ 704,160	\$ 10,438	\$ 28,807

						Total Revenue
Reservation	Upgrade Name	COD	EOC	Allocated E & C Cost	Total E & C Cost	Requirements
974976	BUCYRUS - STILWELL 161KV CKT 1	6/1/2010	6/1/2010	\$ 50	\$ 9,000	\$ 145
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	6/1/2010	6/1/2010	\$ 6,387	\$ 1,000,000	\$ 16,298
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 OKGE	6/1/2010	6/1/2010	\$ 2,555	\$ 400,000	
	WEST GARDNER (WGARD 11) 345/161/13.8KV TRANSFORMER CKT 11	6/1/2006	10/1/2007	\$ 1,446	\$ 3,000,000	\$ 5,488
			Total	\$ 10.438	\$ 4409,000	\$ 28.807

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
974976	BEELINE - EXPLORER GLENPOOL 138KV CKT 1	6/1/2010	6/1/2010
	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	6/1/2006	4/1/2007
	HEIZER - KNOLL 230KV	6/1/2010	6/1/2010

Credits may b	redits may be required for the following network upgrades directly assigned to transmission customers in previous aggregate study.							
Reservation	Upgrade Name	COD	EOC					
974976	412SUB - KANSAS TAP 161KV CKT 1	6/1/2015	6/1/2015					
	412SUB - KERR 161KV 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
974976	AEPW PLANNED UPGRADE FOR NW ARKANSAS	6/1/2006	6/1/2009
	LACYGNE - PAOLA 345KV CKT 1	6/1/2015	6/1/2006
	PLAINVILLE CAPACITOR	6/1/2006	6/1/2007
	TLICO INTERCHANGE 230KV	6/1/2008	6/1/2008

Customer Study Number KMEA AG2-2005-059

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Potential Funding		Base Rate	Allocated E & C Cost	Total Revenue Requirements
KMEA	974977	GRDA	WPEK	2	5/1/2010	5/1/2026		\$	5,994	\$ 375,552	\$ 5,994	\$ -
								\$	5,994	\$ 375,552	\$ 5,994	\$ 18,804

						Total Revenue
Reservation	Upgrade Name	COD	EOC	Allocated E & C Cost	Total E & C Cost	Requirements
974977	BUCYRUS - STILWELL 161KV CKT 1	6/1/2010	6/1/2010	\$ 33	\$ 9,000	\$ 113
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	6/1/2010	6/1/2010	\$ 4,258	\$ 1,000,000	\$ 13,264
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 OKGE	6/1/2010	6/1/2010	\$ 1,703	\$ 400,000	\$ 5,428
			Total	\$ 5,994	\$ 1,409,000	\$ 18,804

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
974977	BEELINE - EXPLORER GLENPOOL 138KV CKT 1	6/1/2010	6/1/2010
	HEIZER - KNOLL 230KV	6/1/2010	6/1/2010

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

Reservation | Upgrade Name | COD | EOC |
974977 | 412SUB - KANSAS TAP 161KV CKT 1 | 6/1/2015 | 6/1/2015 |
412SUB - KERR 161KV CKT 1 | 6/1/2015 | 6/1/2015 |

Reservation	Upgrade Name	COD	EOC
974977	LACYGNE - PAOLA 345KV CKT 1	6/1/2015	6/1/2006
	TUCO INTERCHANGE 230KV	6/1/2008	6/1/2008

Customer Study Number KMEA AG2-2005-060

Customer	Reservation	POR	POD	Requested Amount		Date	Date	Date	Potential Base Plan Funding Allowable	Base Rate	Allocated E & C Cost	Total Revenue Requirements
KMEA	974987	GRDA	WR	2	5/1/2010	5/1/2026	10/1/2010	5/1/2026	\$ -	\$ 499,200	\$ 997,299	*
									\$ -	\$ 499,200	\$ 997,299	\$ 4,252,049

						Total Revenue
Reservation	Upgrade Name	COD	EOC	Allocated E & C Cost	Total E & C Cost	Requirements
974987	BUCYRUS - STILWELL 161KV CKT 1	6/1/2010	6/1/2010	\$ 23	\$ 9,000	\$ 80
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	6/1/2010	6/1/2010	\$ 5,049	\$ 1,000,000	\$ 16,109
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 OKGE	6/1/2010	6/1/2010			
	Wichita - Reno Co 345KV	4/1/2006	10/1/2010	\$ 990,208	\$ 42,000,000	\$ 4,229,293
			Total	\$ 997,299	\$ 43,409,000	\$ 4,252,049

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
974987	BEELINE - EXPLORER GLENPOOL 138KV CKT 1	6/1/2010	6/1/2010
	HEIZER - KNOLL 230KV	6/1/2010	6/1/2010

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

 Reservation
 Upgrade Name
 COD
 EOC

 974987
 412SUB - KANSAS TAP 161KV CKT 1
 6/1/2015
 6/1/2015

 412SUB - KERR 161KV 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	
974987	LACYGNE - PAOLA 345KV CKT 1	6/1/2015	6/1/2006	
	TUCO INTERCHANGE 230KV	6/1/2008	6/1/2008	

Customer Study Number KMEA AG2-2005-061

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Date	Potential Base Plan Funding Allowable	Base Rate	Allocated E & C Cost	Total Revenue Requirements
KMEA	974988	GRDA	WR	2	5/1/2006	5/1/2026	10/1/2010	5/1/2026	\$ 360,000	\$ 624,000	\$ 997,299	\$ -
									\$ 360,000	\$ 624,000	\$ 997,299	\$ 4,252,049

						Total Revenue
Reservation	Upgrade Name	COD	EOC	Allocated E & C Cost	Total E & C Cost	Requirements
974988	BUCYRUS - STILWELL 161KV CKT 1	6/1/2010	6/1/2010	\$ 23	\$ 9,000	\$ 80
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	6/1/2010	6/1/2010	\$ 5,049	\$ 1,000,000	\$ 16,109
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 OKGE	6/1/2010	6/1/2010	\$ 2,019		
	Wichita - Reno Co 345KV	4/1/2006	10/1/2010	\$ 990,208	\$ 42,000,000	\$ 4,229,293
			Total	\$ 997,299	\$ 43,409,000	\$ 4,252,049

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	
974988	BEELINE - EXPLORER GLENPOOL 138KV CKT 1	6/1/2010	6/1/2010	
	HEIZER - KNOLL 230KV	6/1/2010	6/1/2010	

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

Reservation | Upgrade Name | COD | EOC |
974988 | 412SUB - KANSAS TAP 161KV CKT 1 | 6/1/2015 | 6/1/2015 |
412SUB - KERR 161KV CKT 1 | 6/1/2015 | 6/1/2015 |
61/1/2015 | 6/1/2015 | 6/1/2015 |
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61/1/2015 | 6/1/2015 |
61/1/2015

Reservation	Upgrade Name	COD	EOC
974988	AEPW PLANNED UPGRADE FOR NW ARKANSAS	6/1/2006	6/1/2009
	HEC-HEC GT-Circle 115KV	6/1/2007	4/1/2006
	LACYGNE - PAOLA 345KV CKT 1	6/1/2015	6/1/2006
	PLAINVILLE CAPACITOR	6/1/2006	6/1/2007
	TUCO INTERCHANGE 230KV	6/1/2008	6/1/2008

Customer Study Number KMEA AG2-2005-063

Customer	Reservation	POR	POD	Requested Amount	Date	Date	Deferred Start Date	Potential Base Plan Funding Allowable	Base Rate	Allocated E & C Cost	Total Revenue Requirements
KMEA	974926	GRDA	WPEK	1	5/1/2010	5/1/2026		\$ 2,786	\$ 187,776	\$ 2,786	\$ -
								\$ 2,786	\$ 187,776	\$ 2,786	\$ 8,741

						Total Revenue
Reservation	Upgrade Name	COD	EOC	Allocated E & C Cost	Total E & C Cost	Requirements
974926	BUCYRUS - STILWELL 161KV CKT 1	6/1/2010	6/1/2010	\$ 18	\$ 9,000	\$ 62
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	6/1/2010	6/1/2010	\$ 1,977		
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 OKGE	6/1/2010	6/1/2010	\$ 791	\$ 400,000	\$ 2,521
			Total	\$ 2,786	\$ 1,409,000	\$ 8,741

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
974926	BEELINE - EXPLORER GLENPOOL 138KV CKT 1	6/1/2010	6/1/2010
	HEIZER - KNOLL 230KV	6/1/2010	6/1/2010
	JEC - Swissvale 345KV	6/1/2011	6/1/2011
	TECLIMSEH HILL () 161/115/13 8KV TRANSFORMER CKT 1	6/1/2010	6/1/2010

Credits may b	e required for the following network upgrades directly assigned to transmission customers in previ	ous aggregat	e study.
Reservation	Upgrade Name	COD	EOC
974926	412SUB - KANSAS TAP 161KV CKT 1	6/1/2015	6/1/2015
	412SUB - KERR 161KV 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
974926	LACYGNE - PAOLA 345KV CKT 1	6/1/2015	6/1/2006
	TUCO INTERCHANGE 230KV	6/1/2008	6/1/2008

Customer Study Number OMPA AG2-2005-067

				Beguested Amount		Requested Stop						Total Revenue
Customer	Reservation	POR	POD	Requested Amount	Date	Date	Date	Date	Funding Allowable	Base Rate	Allocated E & C Cost	Requirements
OMPA	974873	OKGE	CSWS	25	2/1/2006	2/1/2015	10/1/2006	10/1/2015	\$ 4,500,000	\$ -	\$ 5,135,896	\$ -
									\$ 4,500,000	\$ -	\$ 5,135,896	\$ 7,635,683

						Total Revenue
Reservation	Upgrade Name	COD	EOC	Allocated E & C Cost	Total E & C Cost	Requirements
974873	ALTUS JUNCTION 69KV Capacitor	6/1/2015	6/1/2015	\$ 500,000	\$ 500,000	\$ 423,348
	BROWN - EXPLORER TAP 138KV CKT 1	6/1/2008	6/1/2008	\$ 584	\$ 25,000	\$ 1,220
	CACHE - SNYDER 138KV CKT 1	6/1/2008	6/1/2008	\$ 62,705	\$ 85,000	\$ 104,300
	COMANCHE - WALTERS 69KV CKT 1	6/1/2008	6/1/2008	\$ 3,300,000	\$ 3,300,000	\$ 4,803,481
	Mooreland - Potter 345 kV SPS	5/1/2010	5/1/2010	\$ 1,051,381	\$ 61,850,000	\$ 1,901,309
	Mooreland - Potter 345 kV WFEC	5/1/2010	5/1/2010	\$ 42,497	\$ 2,500,000	\$ 77,769
	Potter - Tolk 345KV	5/1/2010	5/1/2010	\$ 130,533	\$ 36,377,173	\$ 236,055
	Spearville - Mooreland 345 kV WFEC	5/1/2010	5/1/2010	\$ 48,196	\$ 21,000,000	\$ 88,199
			Total	\$ 5.135.896	\$ 125.637.173	\$ 7.635.683

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

Res	ervation	Upgrade Name	COD	EOC
974	873	Marietta Switch Capacitor	6/1/2010	6/1/2010
		Pink Switch 138 KV Capacitor	6/1/2010	6/1/2010

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

Reservation	Upgrade Name	COD	FOC	1
974873	Snyder - Altus Jct 138KV	6/1/2006	6/1/2008	ı
	TUCO INTERCHANGE 230KV	6/1/2008	6/1/2008	1

Third Party Limitations

Reservation	Upgrade Name	COD	EOC	Allocated E & C Cost	-	Total E & C Cost
974873	Spearville - Mooreland 345 kV SUNC	5/1/2010	5/1/2010	\$ 71,146	\$	31,000,000
			Total	\$ 71,146	\$	31,000,000

Customer Study Number AG2-2005-056

Customer	Reservation	POR	POD	Requested Amount		Requested Stop Date	Deferred Start Date	Potential Base Plan Funding Allowable		Allocated E & C Cost	Total Revenue Requirements
SHDY	974688	OKGE	EES	320	1/8/2008	1/8/2009		\$ -	\$ 3,264,000	\$ -	\$
*Not evaluated	d simultaneosly with reservation 974689 in study cases.							\$ -	\$ 3,264,000	\$ -	\$

						Total Revenue
Reservation	Upgrade Name	COD	EOC	Allocated E & C Cost	Total E & C Cost	Requirements
974688				\$ -	\$ -	\$
			Total	•	¢ .	¢ .

Customer Study Number AG2-2005-057

Customer	Reservation	POR	POD	Requested Amount	Date	Requested Stop Date	Deferred Start Date	Potential Base Plan Funding Allowable	Base Rate	Allocated E & C Cost	Total Revenue Requirements
SHDY	974689	OKGE	CSWS	320	1/8/2008	1/8/2009		\$	\$ 4,032,000	\$ 153,693	\$ -
*Not evaluate	d simultaneosly with reservation 974688 in study cases.							\$ -	\$ 4,032,000	\$ 153,693	\$ 212,001

						Total Revenue
Reservation	Upgrade Name	COD	EOC	Allocated E & C Cost	Total E & C Cost	Requirements
974689	EAST CENTRAL HENRYETTA - OKMULGEE 138KV CKT 1	12/1/2006	1/1/2007	\$ 86,452	\$ 108,000	\$ 121,654
	EAST CENTRAL HENRYETTA - WELEETKA 138KV CKT 1	6/1/2007	6/1/2007	\$ 67,241	\$ 84,000	\$ 90,347
			Total	\$ 153,693	\$ 192,000	\$ 212,001

 The following facilities limit the renewal of the point-to-point request.

 Reservation
 Upgrade Name
 COD
 EOC

 974689
 3JNSBRO 115 - DANVILLE 115 (LPL) 115KV CKT 1
 6/1/2010
 6/1/2010

 BONANZA - HACKETT AECC 161KV CKT 1
 6/1/2015
 6/1/2015

Customer Study Number AG2-2005-053

Customer	Reservation	POR	POD	Requested Amount		Requested Stop Date	Deferred Start Date		Allowable	Base Rate	Allocated E & C Cost	Total Revenue Requirements
SPSM	974790	CSWS	SPS	50	1/1/2007	1/1/2012		\$	2,014,646	\$ 4,800,000	\$ 2,014,646	
SPSM	974791	CSWS	SPS	50	1/1/2007	1/1/2012		\$	2,014,646	\$ 4,800,000	\$ 2,014,646	
SPSM	974793	CSWS	SPS	50	1/1/2007	1/1/2012		\$	2,014,646	\$ 4,800,000		
SPSM	974797	CSWS	SPS	50	1/1/2007	1/1/2012		\$	2,014,646	\$ 4,800,000	\$ 2,014,646	
								\$	8,058,584	\$ 19,200,000	\$ 8,058,584	\$ 12,542,285

						Total Revenue
Reservation	Upgrade Name	COD	EOC	Allocated E & C Cost	Total E & C Cost	Requirements
974790	ALTUS JCT TAP - RUSSELL 138KV CKT 1 WFEC	6/1/2010	6/1/2010	\$ 62,500	\$ 250,000	\$ 70,314
	CACHE - SNYDER 138KV CKT 1	6/1/2008	6/1/2008	\$ 5,574	\$ 85,000	\$ 8,044
	EAST CENTRAL HENRYETTA - OKMULGEE 138KV CKT 1	12/1/2006	1/1/2007	\$ 5,387	\$ 108,000	\$ 8,230
	EAST CENTRAL HENRYETTA - WELEETKA 138KV CKT 1	6/1/2007	6/1/2007	\$ 4,190	\$ 84,000	\$ 6,112
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	6/1/2010	6/1/2010	\$ 160,161	\$ 1,000,000	\$ 238,799
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 OKGE	6/1/2010	6/1/2010	\$ 64,064	\$ 400,000	\$ 106,613
	Mooreland - Potter 345 kV SPS	5/1/2010	5/1/2010	\$ 424,262	\$ 61,850,000	\$ 667,618
	Mooreland - Potter 345 kV WFEC	5/1/2010	5/1/2010	\$ 17,149	\$ 2,500,000	\$ 29,230
	Potter - Tolk 345KV	5/1/2010	5/1/2010	\$ 1,271,359	\$ 36,377,173	\$ 2,000,610
			Total	\$ 2,014,646	\$ 102,654,173	\$ 3,135,571
974791	ALTUS JCT TAP - RUSSELL 138KV CKT 1 WFEC	6/1/2010	6/1/2010	\$ 62,500	\$ 250,000	\$ 70,314
	CACHE - SNYDER 138KV CKT 1	6/1/2008	6/1/2008	\$ 5,574	\$ 85,000	\$ 8,044
	EAST CENTRAL HENRYETTA - OKMULGEE 138KV CKT 1	12/1/2006	1/1/2007	\$ 5,387	\$ 108,000	\$ 8,230
	EAST CENTRAL HENRYETTA - WELEETKA 138KV CKT 1	6/1/2007	6/1/2007	\$ 4,190	\$ 84,000	\$ 6,112
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	6/1/2010	6/1/2010	\$ 160,161	\$ 1,000,000	\$ 238,799
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 OKGE	6/1/2010	6/1/2010	\$ 64,064	\$ 400,000	\$ 106,613
	Mooreland - Potter 345 kV SPS	5/1/2010	5/1/2010	\$ 424,262	\$ 61,850,000	\$ 667,618
	Mooreland - Potter 345 kV WFEC	5/1/2010	5/1/2010	\$ 17,149	\$ 2,500,000	\$ 29,230
	Potter - Tolk 345KV	5/1/2010	5/1/2010	\$ 1,271,359	\$ 36,377,173	\$ 2,000,610
			Total	\$ 2,014,646	\$ 102,654,173	\$ 3,135,571
974793	ALTUS JCT TAP - RUSSELL 138KV CKT 1 WFEC	6/1/2010	6/1/2010	\$ 62,500	\$ 250,000	\$ 70,314
	CACHE - SNYDER 138KV CKT 1	6/1/2008	6/1/2008	\$ 5,574	\$ 85,000	\$ 8,044
	EAST CENTRAL HENRYETTA - OKMULGEE 138KV CKT 1	12/1/2006	1/1/2007	\$ 5,387	\$ 108,000	\$ 8,230
	EAST CENTRAL HENRYETTA - WELEETKA 138KV CKT 1	6/1/2007	6/1/2007	\$ 4,190	\$ 84,000	\$ 6,112
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	6/1/2010	6/1/2010	\$ 160,161	\$ 1,000,000	\$ 238,799
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 OKGE	6/1/2010	6/1/2010	\$ 64,064	\$ 400,000	\$ 106,613
	Mooreland - Potter 345 kV SPS	5/1/2010	5/1/2010	\$ 424,262	\$ 61,850,000	\$ 667,618
	Mooreland - Potter 345 kV WFEC	5/1/2010	5/1/2010	\$ 17,149		
	Potter - Tolk 345KV	5/1/2010	5/1/2010	\$ 1,271,359	\$ 36,377,173	\$ 2,000,610
			Total	\$ 2,014,646	\$ 102,654,173	\$ 3,135,571
974797	ALTUS JCT TAP - RUSSELL 138KV CKT 1 WFEC	6/1/2010	6/1/2010	\$ 62,500	\$ 250,000	\$ 70,314
	CACHE - SNYDER 138KV CKT 1	6/1/2008	6/1/2008	\$ 5,574	\$ 85,000	\$ 8,044
	EAST CENTRAL HENRYETTA - OKMULGEE 138KV CKT 1	12/1/2006	1/1/2007	\$ 5,387	\$ 108,000	\$ 8,230
	EAST CENTRAL HENRYETTA - WELEETKA 138KV CKT 1	6/1/2007	6/1/2007	\$ 4,190	\$ 84,000	\$ 6,112
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	6/1/2010	6/1/2010	\$ 160,161	\$ 1,000,000	\$ 238,799
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 OKGE	6/1/2010	6/1/2010	\$ 64,064	\$ 400,000	
	Mooreland - Potter 345 kV SPS	5/1/2010	5/1/2010	\$ 424,262	\$ 61,850,000	\$ 667,618
	Mooreland - Potter 345 kV WFEC	5/1/2010	5/1/2010	\$ 17,149		
	Potter - Tolk 345KV	5/1/2010	5/1/2010	\$ 1,271,359	\$ 36,377,173	\$ 2,000,610
		•	Total	\$ 2,014,646	\$ 102.654.173	\$ 3,135,571

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	1
974791	BEELINE - EXPLORER GLENPOOL 138KV CKT 1	6/1/2010	6/1/2010	1
974790	BEELINE - EXPLORER GLENPOOL 138KV CKT 1	6/1/2010	6/1/2010	1
974793	BEELINE - EXPLORER GLENPOOL 138KV CKT 1	6/1/2010	6/1/2010	1
974797	BEELINE - EXPLORER GLENPOOL 138KV CKT 1	6/1/2010	6/1/2010	1

	r ending - The requested service is contingent about completion of the following apprades. Cost is t		
Reservation	Upgrade Name	COD	EOC
974790	Snyder - Altus Jct 138KV	6/1/2006	6/1/2008
	TUCO INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2008	6/1/2008
	TUCO INTERCHANGE 230KV	6/1/2008	6/1/2008
974791	Snyder - Altus Jct 138KV	6/1/2006	6/1/2008
	TUCO INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2008	6/1/2008
	TUCO INTERCHANGE 230KV	6/1/2008	6/1/2008
974793	Snyder - Altus Jct 138KV	6/1/2006	6/1/2008
	TUCO INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2008	6/1/2008
	TUCO INTERCHANGE 230KV	6/1/2008	6/1/2008
974797	Snyder - Altus Jct 138KV	6/1/2006	6/1/2008
	TUCO INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2008	6/1/2008
	TUCO INTERCHANGE 230KV	6/1/2008	6/1/2008

 Customer
 Study Number

 UCU
 AG2-2005-004D

Customer	Reservation	POR	POD	Requested Amount		Requested Stop Date	Deferred Start Date		Potential Base Plan Funding Allowable		Allocated E & C Cost	Total Revenue Requirements
UCU	897453	CSWS	MPS	130	6/1/2007	6/1/2011	10/1/2007	10/1/2011	\$ -	\$ 10,052,640	\$ 4,250,729	\$ -
									\$ -	\$ 10,052,640	\$ 4,250,729	\$ 7,069,241

						Total Revenue
Reservation	Upgrade Name	COD	EOC	Allocated E & C Cost	Total E & C Cost	Requirements
897453	BUCYRUS - STILWELL 161KV CKT 1	6/1/2010	6/1/2010	\$ 4,415	\$ 9,000	\$ 8,147
	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2006	4/1/2008	\$ 2,496,314	\$ 4,244,500	
	WHITNEY 138/69/12.5KV TRANSFORMER	6/1/2007	4/1/2008	\$ 1,750,000	\$ 1,750,000	\$ 2,604,103
			Total	\$ 4,250,729	\$ 6.003.500	\$ 7.069,241

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
897453	ANACONDA - FREEMAN 69KV CKT 1	6/1/2006	4/1/2008
	ANACONDA - HARRISONVILLE WEST 69KV CKT 1	6/1/2006	10/1/2007
	JEC - Swissvale 345KV	6/1/2011	6/1/2011

The following facilities limit the renewal of the point-to-point request.

Reservation	Upgrade Name	COD	EOC
897453	APRIL - WALDEN 138KV CKT 1	6/1/2015	6/1/2015
	ROCK HILL - TATUM 138KV CKT 1	6/1/2015	6/1/2015
	LINE 558 TAP - MT. ZION 138KV CKT 1	6/1/2013	6/1/2013
	CHEROKEE REC - KNOX LEE 138KV CKT 1	6/1/2015	6/1/2015
	HUNTSVILLE - LINE 558 TAP 138KV CKT 1	6/1/2015	6/1/2015
	GRIMES - WALDEN 138KV CKT 1	6/1/2013	6/1/2013
	GRMXF 345 345/138KV TRANSFORMER CKT 1	6/1/2013	6/1/2013
	GRMXF 345 345/138KV TRANSFORMER CKT 2	6/1/2013	6/1/2013

Customer UCU Study Number AG2-2005-078D

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date		Potential Base Plan Funding Allowable		Allocated E & C Cost	Total Revenue Requirements
UCU	977013	WPEK	MPS	20	7/1/2006	7/1/2012	10/1/2006	10/1/2012	\$ 360,000	\$ 2,319,840	\$ 1,539,941	\$ -
UCU	977014	WPEK	MPS	20	7/1/2006	10/1/2006	10/1/2017	10/1/2017	\$	\$ 4,253,040	\$ 1,539,941	\$
	<u> </u>								\$ 360,000	\$ 6,572,880	\$ 3,079,882	\$ 5,719,051

						Total Revenue
Reservation	Upgrade Name	COD	EOC	Allocated E & C Cost	Total E & C Cost	Requirements
977013	Mooreland - Potter 345 kV SPS	5/1/2010	5/1/2010	\$ 270,420		\$ 433,600
	Mooreland - Potter 345 kV WFEC	5/1/2010	5/1/2010	\$ 10,930		
	Mooreland 345/138 kV Transformer	5/1/2010	5/1/2010	\$ 307,359		
	Potter - Tolk 345KV	5/1/2010	5/1/2010			
	Spearville - Mooreland 345 kV WFEC	5/1/2010	5/1/2010			
	WEST GARDNER (WGARD 11) 345/161/13.8KV TRANSFORMER CKT 11	6/1/2006	10/1/2007	\$ 115,551	\$ 3,000,000	\$ 277,557
*Not evaluated	d simultaneosly with reservation 977014 in study cases.		Total	\$ 1,539,941	\$ 129,727,173	\$ 2,636,943
977014	Mooreland - Potter 345 kV SPS	5/1/2010	5/1/2010	\$ 270,420	\$ 61,850,000	\$ 528,169
	Mooreland - Potter 345 kV WFEC	5/1/2010	5/1/2010	\$ 10,930	\$ 2,500,000	\$ 20,819
	Mooreland 345/138 kV Transformer	5/1/2010	5/1/2010	\$ 307,359	\$ 5,000,000	\$ 600,316
	Potter - Tolk 345KV	5/1/2010	5/1/2010	\$ 207,049	\$ 36,377,173	\$ 404,396
	Spearville - Mooreland 345 kV WFEC	5/1/2010	5/1/2010	\$ 628,632	\$ 21,000,000	\$ 1,197,410
	WEST GARDNER (WGARD 11) 345/161/13.8KV TRANSFORMER CKT 11	6/1/2006	10/1/2007	\$ 115,551	\$ 3,000,000	\$ 330,996
*Not evaluated	d simultaneosly with reservation 977013 in study cases.		Total	\$ 1,539,941	\$ 129,727,173	\$ 3,082,107

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

Expansion	an The requested service is contingent upon completion of the following appliaces. Gost is not as	signable to th	ic transmissi
Reservation	Upgrade Name	COD	EOC
977013	AVONDALE - GLADSTONE 161KV CKT 1	6/1/2011	6/1/2011
	JEC - Swissvale 345KV	6/1/2011	6/1/2011
977014	AVONDALE - GLADSTONE 161KV CKT 1	6/1/2011	6/1/2011
	IEC - Swissyale 345KV	6/1/2011	6/1/2011

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

Reservation	Upgrade Name	COD	EOC
977013	TUCO INTERCHANGE 230KV	6/1/2008	6/1/2008
977014	LACYGNE - PAOLA 345KV CKT 1	6/1/2015	6/1/2006
	TUCO INTERCHANGE 230KV	6/1/2008	6/1/2008

Third Party Limitations

Reservation	Upgrade Name	COD	EOC	Allocated E & C Cost	Total E & C Cost
977013	Spearville - Mooreland 345 kV SUNC	5/1/2010	5/1/2010	\$ 927,981	\$ 31,000,000
			Total	\$ 927.981	\$ 31,000,000

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

977014	Spearville - Mooreland 345 kV SUNC	5/1/2010	5/1/2010	\$ 927,981	\$ 31,000,000
			Total	\$ 927.981	\$ 31.000.000

Customer UCU Study Number AG2-2005-079D

Customer	Reservation	POR	POD	Requested Amount	Date	Date	Deferred Start Date	Date	Funding Allowable	Base Rate	Allocated E & C Cost	Total Revenue Requirements
UCU	977015	WPEK	MPS	40	7/1/2006	7/1/2012	10/1/2007	10/1/2013	\$ 720,000			
UCU	977018	WPEK	MPS	40	7/1/2006	10/1/2007	10/1/2007	10/1/2018	\$ -	\$ 8,506,080	\$ 3,794,334	•
									\$ 720,000	\$ 13,145,760	\$ 7,588,668	\$ 14,963,546

						Total Revenue
Reservation	Upgrade Name	COD	EOC	Allocated E & C Cost	Total E & C Cost	Requirements
977015	BUCYRUS - STILWELL 161KV CKT 1	6/1/2010	6/1/2010	\$ 1,222	\$ 9,000	\$ 2,428
	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2006	4/1/2008	\$ 874,093	\$ 4,244,500	\$ 1,691,234
	Mooreland - Potter 345 kV SPS	5/1/2010	5/1/2010	\$ 520,361	\$ 61,850,000	\$ 913,230
	Mooreland - Potter 345 kV WFEC	5/1/2010	5/1/2010	\$ 21,033	\$ 2,500,000	\$ 37,801
	Mooreland 345/138 kV Transformer	5/1/2010	5/1/2010	\$ 640,363	\$ 5,000,000	\$ 1,123,833
	Potter - Tolk 345KV	5/1/2010	5/1/2010	\$ 436,708	\$ 36,377,173	\$ 766,420
	Spearville - Mooreland 345 kV WFEC	5/1/2010	5/1/2010	\$ 1,300,554	\$ 21,000,000	\$ 2,337,398
*Not evaluate	d simultaneosly with reservation 977018 in study cases.		Total	\$ 3,794,334	\$ 130,980,673	\$ 6,872,344
977018	BUCYRUS - STILWELL 161KV CKT 1	6/1/2010	6/1/2010	\$ 1,222	\$ 9,000	\$ 2,896
	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2006	4/1/2008	\$ 874,093	\$ 4,244,500	\$ 2,045,203
	Mooreland - Potter 345 kV SPS	5/1/2010	5/1/2010	\$ 520,361	\$ 61,850,000	\$ 1,112,406
	Mooreland - Potter 345 kV WFEC	5/1/2010	5/1/2010	\$ 21,033	\$ 2,500,000	\$ 41,827
	Mooreland 345/138 kV Transformer	5/1/2010	5/1/2010	\$ 640,363	\$ 5,000,000	\$ 1,368,942
	Potter - Tolk 345KV	5/1/2010	5/1/2010	\$ 436,708	\$ 36,377,173	\$ 933,576
	Spearville - Mooreland 345 kV WFEC	5/1/2010	5/1/2010	\$ 1,300,554	\$ 21,000,000	\$ 2,586,351
*Not evaluate	d simultaneosly with reservation 977015 in study cases		Total	\$ 3,794,334	\$ 130,980,673	\$ 8.091.202

*Not evaluated simultaneosly with reservation 977015 in study cases.

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
977015	ANACONDA - FREEMAN 69KV CKT 1	6/1/2006	4/1/2008
	ANACONDA - HARRISONVILLE WEST 69KV CKT 1	6/1/2006	10/1/2007
	JEC - Swissvale 345KV	6/1/2011	6/1/2011
977018	ANACONDA - FREEMAN 69KV CKT 1	6/1/2006	4/1/2008
	ANACONDA - HARRISONVILLE WEST 69KV CKT 1	6/1/2006	10/1/2007
	JEC - Swissvale 345KV	6/1/2011	6/1/2011

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

Reservation	Upgrade Name	COD	EOC
977015	TUCO INTERCHANGE 230KV	6/1/2008	6/1/2008
977018	LACYGNE - PAOLA 345KV CKT 1	6/1/2015	6/1/2006
	THEO INTERCHANGE 230KV	6/1/2008	6/1/2008

Third Party Limitations

Reservation	Upgrade Name	COD	EOC	Allocated E & C C	ost	Tota	I E & C Cost
977015	Spearville - Mooreland 345 kV SUNC	5/1/2010	5/1/2010	\$ 1,919,	366	\$	31,000,000
				\$ 1,919,	366	\$	31,000,000
977018	Spearville - Mooreland 345 kV SUNC	5/1/2010	5/1/2010	\$ 1,919,	366	\$	31,000,000
			Total	\$ 1.919.	366	\$	31.000.000

Customer Study Number WFEC AG2-2005-062

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date	Potential Base Plan Funding Allowable		Allocated E & C Cost	Total Revenue Requirements
WFEC	971951	WFEC	WFEC	250	5/1/2010	5/1/2035		\$ 17,100,000		\$ 21,320,056	
								\$ 17,100,000	\$ -	\$ 21,320,056	\$ 67,848,422

						Total Revenue
Reservation	Upgrade Name	COD	EOC	Allocated E & C Cost	Total E & C Cost	Requirements
971951	BROWN - EXPLORER TAP 138KV CKT 1	6/1/2008	6/1/2008	\$ 24,416	\$ 25,000	\$ 112,548
	BROWN - RUSSETT 138KV CKT 1 WFEC	12/1/2010	12/1/2010	\$ 100,000	\$ 100,000	\$ 274,961
	GLASSES - RUSSETT 138KV CKT 1	6/1/2014	6/1/2014	\$ 10,000	\$ 10,000	\$ 31,704
	HUGO POWER PLANT - VALLIANT 345 KV AEPW	6/1/2009	6/1/2009	\$ 2,500,000	\$ 2,500,000	
	HUGO POWER PLANT - VALLIANT 345 KV WFEC	6/1/2009	6/1/2009	\$ 16,000,000	\$ 16,000,000	
	Mooreland - Potter 345 kV SPS	5/1/2010	5/1/2010	\$ 1,309,295	\$ 61,850,000	\$ 5,650,30
	Mooreland - Potter 345 kV WFEC	5/1/2010	5/1/2010	\$ 52,922	\$ 2,500,000	\$ 153,054
	Mooreland 345/138 kV Transformer	5/1/2010	5/1/2010	\$ 299,802	\$ 5,000,000	\$ 1,293,80
	Potter - Tolk 345KV	5/1/2010	5/1/2010			
	Spearville - Mooreland 345 kV WFEC	5/1/2010	5/1/2010	\$ 670,871	\$ 21,000,000	\$ 1,940,20
	•		Total	\$ 21.320.056	\$ 145,362,173	\$ 67.848.422

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
971951	CLARKSVILLE - MUSKOGEE 345KV CKT 1 AEPW	6/1/2015	6/1/2015
	CLARKSVILLE - MUSKOGEE 345KV CKT 1 OKGE	6/1/2015	6/1/2015
	Marietta Switch Capacitor	6/1/2010	6/1/2010
	Pink Switch 138 KV Capacitor	6/1/2010	6/1/2010

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

Reservation	Upgrade Name	COD	EOC
971951	CHICKASAW & CANEY CREEK CAPACITOR	6/1/2015	10/1/2006
	CHICKASAW & CANEY CREEK CAPACITOR	6/1/2010	10/1/2006
	TUCO INTERCHANGE 230KV	6/1/2008	6/1/2008

Third Party Limitations

Reservation	Upgrade Name	COD	EOC	Allocated E & C Cost	Total E & C Cost
971951	Spearville - Mooreland 345 kV SUNC	5/1/2010	5/1/2010	\$ 990,333	\$ 31,000,000
			Total	\$ 990,333	\$ 31,000,000

Customer Study Number WRGS AG2-2005-032D

Customer	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Deferred Start Date		Potential Base Plan Funding Allowable		Allocated E & C Cost	Total Revenue Requirements
WRGS	974561	OKGE	WR	300	1/1/2006	1/1/2021	10/1/2010	10/1/2025	\$ 35,726,374	\$ -	\$ 35,726,374	\$ -
									\$ 35.726.374	\$ -	\$ 35,726,374	\$ 149.567.067

						Total Revenue
Reservation	Upgrade Name	COD	EOC	Allocated E & C Cost	Total E & C Cost	Requirements
974561	BUCYRUS - STILWELL 161KV CKT 1	6/1/2010	6/1/2010	\$ 1,735	\$ 9,000	\$ 5,950
	Wichita - Reno Co 345KV	4/1/2006	10/1/2010	\$ 35,724,639	\$ 42,000,000	\$ 149,561,116
			Total	\$ 35 726 374	\$ 42,009,000	\$ 149 567 067

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
974561	CLARKSVILLE - MUSKOGEE 345KV CKT 1 AEPW	6/1/2015	6/1/2015
	CLARKSVILLE - MUSKOGEE 345KV CKT 1 OKGE	6/1/2015	6/1/2015
	HALSTEAD SOUTH - SEDGWICK COUNTY NO. 12 COLWICH 138KV CKT 1	6/1/2013	6/1/2013
	JEC - Swissvale 345KV	6/1/2011	6/1/2011

Reservation	Upgrade Name				COD	EOC
974561	LACYGNE - PA	OLA 345KV CK	T 1		6/1/2015	6/1/2006
	TUCO INTERC	HANGE 230KV			6/1/2008	6/1/2008

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

Transmission Owner	Upgrade	Solution	Minimum ATC per Upgrade (MW)	Season of Minimum Allocated ATC	(COD)		Engineering & Construction Cost
AEPW	ALTUS JUNCTION 69KV Capacitor	Add 9.6 MVAR Capacitor	14	15SP	06/01/15		
AEPW	CACHE - SNYDER 138KV CKT 1	Replace Snyder wavetrap	0	10SP	06/01/08	06/01/08	\$85,000
AEPW	EAST CENTRAL HENRYETTA - OKMULGEE 138KV CKT 1	Replace Okmulgee Wavetrap	0	15SP	12/01/06	01/01/07	
AEPW	EAST CENTRAL HENRYETTA - WELEETKA 138KV CKT 1	Replace Weleetka Wavetrap	0	07SP	06/01/07	06/01/07	\$84,000
		Reconductor 1.9 miles with ACCC. Replace wave trap jumpers					
AEPW	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	at Riverside.	322	10SP	06/01/10	06/01/10	
AEPW	HUGO POWER PLANT - VALLIANT 345 KV AEPW	Vallient 345 KV line terminal	155	10WP	06/01/09	06/01/09	\$2,500,000
AEPW	WHITNEY 138/69/12.5KV TRANSFORMER	Move load from 69 kV to 138 kV	0	10SP	06/01/07	04/01/08	\$1,750,000
		New connection between EDE Nichols St. Sub Bus # 59542 and	d				
EMDE	Nichols St. Sub Bus - Nichols St. Sub 69KV	Springfield City Utilities Nichols St. Sub #59925	72	15SP	06/01/13	06/01/13	\$1,000,000
		Reconductor Oronogo 59467 to Riverton 59469 with Bundled					
EMDE	SUB 110 - ORONOGO JCT SUB 167 - RIVERTON 161KV CKT 1	556 ACSR	0	15SP	06/01/15	06/01/15	\$5,400,000
		InstallI new 161/12 kV 22.4 transmer and take load off 69 kV					
EMDE	SUB 110 - ORONOGO JCT. (ORONOGO) 161/69/12.5KV TRANSFORMER CKT 1	system	0	15SP	06/01/13	06/01/13	\$2,000,000
GRDA	AFTON (AFTAUTO1) 161/69/13.8KV TRANSFORMER CKT 1	Replace 50 MVA Transformer with 84 MVA unit.	0	10WP	12/01/10	12/01/10	\$890,000
		Rebuild Bucyrus line terminal so transmission line rating can be					, , , , , , , ,
KACP	BUCYRUS - STILWELL 161KV CKT 1	increased to conductor limits.	0	15SP	06/01/10	06/01/10	\$9,000
KACP	WEST GARDNER (WGARD 11) 345/161/13.8KV TRANSFORMER CKT 11	Replace existing transformer with larger one	26	06SH	06/01/06		
MIPU	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	Upgrade to bundled 795 26/7 ACSR conductor	19	06FA	06/01/06	04/01/08	
OKGE	BROWN - EXPLORER TAP 138KV CKT 1	Upgrade CT to 800A at Brown.	0	15SP	06/01/08		
OKGE	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 OKGE	Reconductor 1.82 miles line with Drake ACCC/TW.	322	10SP	06/01/10	06/01/10	\$400,000
		There is the possibility that the CTR could be increased at					4 100,000
OKGE	GLASSES - RUSSETT 138KV CKT 1	Russett. Relays will have to be verified.	159	15SP	06/01/14	06/01/14	\$10,000
		Install 2 - 50 MVar capacitor banks on the 230 kV bus at Lea					¥ ,
SPS	LEA COUNTY INTERCHANGE 230KV CAPACITORS*	County Interchange	0	10WP	12/01/10	12/01/10	\$1,381,023
		New 345 kV line from Potter to Mooreland on wooden h-frame				1_0	\$ 1,001,000
SPS	Mooreland - Potter 345 kV SPS	structures.	0	07SP	05/01/10	05/01/10	\$61,850,000
SPS	Mooreland 345/138 kV Transformer	New Mooreland 345/138 kV Transformer	0	07SP	05/01/10	05/01/10	
		New 345 kV circuit from Potter - Tolk using 2-795 ACSR on					40,000,000
SPS	Potter - Tolk 345KV	wooden h-frame structures.	0	07SP	05/01/10	05/01/10	\$36,377,173
0. 0		Must Run Requirement of Cunningham #2 and Maddox #1 to		0701	00/01/10	00/01/10	φουιστητιο
		prevent Voltage Collapse in Winter Peaks for the Tolk to Eddy					
SPS	SPS MUST RUN GENERATION #1*	345 kV line outage	0	10WP	12/01/06	12/01/06	Indeterminate
0. 0	or o moor non oznanimi	Must Run Requirement to prevent Voltage Collapse in 2015	_	10111	1201/00	12/01/00	indotorrimato
		Winter Peak until determined not needed of Cunningham #2					
		and #3 or #4 and Maddox #1 for the Tolk to Eddy 345 kV line					
SPS	SPS MUST RUN GENERATION #2*	outage	0	10WP	12/01/06	12/01/06	Indeterminate
WERE	Wichita - Reno Co 345KV	Build 345kV from Wichita to Reno Co	0	06SH	04/01/06		\$42,000,000
WFEC	ALTUS JCT TAP - RUSSELL 138KV CKT 1 WFEC	Terminal Equipment Upgrade	0	10SP	06/01/10	06/01/10	\$250.000
WFEC	BROWN - RUSSETT 138KV CKT 1 WFEC	Upgrade Terminal Equipment at Brown- Switches/Wavetraps	240	10WP	12/01/10	12/01/10	\$100,000
WFEC	COMANCHE - WALTERS 69KV CKT 1	Reconductor 13.1 miles from 4/0 to 795 ACSR	0	10SP	06/01/08	06/01/08	
WFEC	HUGO POWER PLANT - VALLIANT 345 KV WFEC	New 345/138 ky Auto, and 19 miles 345 KV	155	10WP	06/01/09	06/01/09	\$16,000,000
WFEC	Mooreland - Potter 345 kV WFEC	345 kV line Terminal	0	07SP	05/01/10	05/01/10	\$2,500,000
WILC	Micordiana - Potter 343 KV VVI EG	OHO KV IIIIG TOTTIIIIGI	U	07-01	03/01/10	05/01/10	φ2,300,000
WFEC	Spearville - Mooreland 345 kV WFEC	New 345 kV line from Kansas/Oklahoma Stateline to Mooreland	0	07SP	05/01/10	05/01/10	\$21,000,000

^{*}LEA COUNTY INTERCHANGE 230 KV CAPACITORS is an alternative to SPS MUST GENERATION #1 and #2 Requirement

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

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

					Earliest Date	Estimated Date of
Transmission			Minimum ATC per	Season of Minimum	Upgrade Required	Upgrade
Owner	Upgrade	Solution	Upgrade (MW)	Allocated ATC	(COD)	Completion (EOC)
AEPW	AEPW PLANNED UPGRADE FOR NW ARKANSAS	NW Project phase II scheduled to be in-service 06/2009	0	06FA	06/01/06	06/01/09
AEPW	Snyder - Altus Jct 138KV	Build new Snyder (54098) to Altus Jct (54103) 138 kV line	0	10SP	06/01/06	06/01/08
KACP	LACYGNE - PAOLA 345KV CKT 1	KCPL Plan to Reconductor line using 954 ACSS conductor	887	15SP	06/01/15	06/01/06
		OGE has budgeted for 2006 30Mvar of 138kV caps at each of the following locations: Chickasaw Bus # 55171, Caney Creek				
OKGE	CHICKASAW & CANEY CREEK CAPACITOR	Bus 55150.	0	15SP	06/01/10	10/01/06
SPS	TUCO INTERCHANGE 230/115KV TRANSFORMER CKT 1	SPS Proposed Plan for SPP-2004-006,007,008,009 WTMPA to add second Tuco Interchange 230/115 kV transformer	330	15SP	06/01/08	06/01/08
		SPS Proposed Plan for SPP-2004-006,007,008,009 WTMPA to Add +150/-50 SVC at TUCO 230 kV, 2 50 MVAR Shunt Capacitors at TUCO 230 kV, a 50 MVAR Shunt Capacitor at Swisher 230 kV, a 50 MVAR Shunt Capacitor at Lubbock South				
SPS	TUCO INTERCHANGE 230KV	230 kV, and a 50 MVAR Shunt Capacitor at Carlisle 230 kV	0	07SP	06/01/08	06/01/08
WEPL	PLAINVILLE CAPACITOR	40MVAR at Plainville 115kV assigned in Expansion Plan	1	07SP	06/01/06	06/01/07
WERE	166TH STREET - JARBALO JUNCTION SWITCHING STATION 115KV CKT 1	Tear down and rebuild 7.22 mile Jarbalo-166 115 kV line.	0	10SP	06/01/13	06/01/13
WERE	HEC-HEC GT-Circle 115KV	Rebuild and convert HEC-HEC GT-Circle loop to 115 kV.	0	07SP	06/01/07	04/01/06

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

Transmission Owner	Projects - The requested service is contingent upon completion of the following upgrades. Co Upgrade	Solution	Minimum ATC per Upgrade (MW)	Season of Minimum Allocated ATC	Earliest Date Upgrade Required (COD)	Estimated Date of Upgrade Completion (EOC)
.==	DOMANIZA DOMANIZA TAR 40410/ OVT 4	Rebuild 0.06 miles of 397.5 ACSR with 795MCM ACSR. Reset	000	4500		
AEPW	BONANZA - BONANZA TAP 161KV CKT 1	relay @ Bonanza	392	15SP	06/01/1	2 06/01/12
. = 5		Rebuild 2.54 miles with 2-795 ACSR & reset Clarksville CT,				_
AEPW	CLARKSVILLE - MUSKOGEE 345KV CKT 1 AEPW	Replace Switches & Breakers @ Clarksville.	1226	15SP	06/01/1	5 06/01/15
.==		Build SW Shreveport - Port Robson 345 kV line and install				
AEPW	SW SHREVEPORT - PORT ROBSON 345KV	345/138 kV auto @ Port Robson.	0	15SP	06/01/1	
AEPW	WHITNEY (WHITNEY1) 138/69/12.47KV TRANSFORMER	Add Third Transformer	0	15SP	06/01/1	5 06/01/15
	BUJEROURE CARACITOR	Install 3 - stages of 22 MVAR each for a total of 66 MVAR				
EMDE	RIVERSIDE CAPACITOR	capacitor bank at Riverside Sub #438 59497	73	15SP	06/01/1	3 06/01/13
		Reconductor 69 kV line from 59438 to 59592 with 556 ACSR				
EMDE	SUB 389 - JOPLIN SOUTHWEST - SUB EXPLORER SPRING CITY TAP 69KV CKT 1	Lindy at 59563 is droped for contingency	0	10SP	01/01/1	06/01/09
		Replace 75 MVA Auto-xfmr at Joplin SW with 150 MVA Auto-				
		xfmr and install 69 kV bank breaker. Auto-xfmr will have an				
EMDE	SUB 389 - JOPLIN SOUTHWEST (JOPLINSW) 161/69/12.5KV TRANSFORMER CKT 1	impedance similar to Aurora 59468, 59537, 59704.	118	15SP	06/01/1	4 06/01/14
		Replace 800 amp wavetrap at Gladstone with 1200 amp				
KACP	AVONDALE - GLADSTONE 161KV CKT 1	wavetrap	0	15SP	06/01/1	
MIPU	ANACONDA - FREEMAN 69KV CKT 1	Conductor	32	06FA	06/01/0	
MIPU	ANACONDA - HARRISONVILLE WEST 69KV CKT 1	Conductor	125	07SP	06/01/0	
OKGE	BEELINE - EXPLORER GLENPOOL 138KV CKT 1	Reconductor .92miles of line with Drake ACCC/TW.	388	10SP	06/01/1	0 06/01/10
		Change 2-345kV breakers to 3000A, a trap to 3000A, 5 switches				
OKGE	CLARKSVILLE - MUSKOGEE 345KV CKT 1 OKGE	to 3000A, and 2 differential relays	1226	15SP	06/01/1	5 06/01/15
SPS	BC-EARTH INTERCHANGE 115KV	Install 1 - 14.4 MVar capacitor bank	75	15SP	06/01/1	5 06/01/15
SPS	CROSBY INTERCHANGE 115/69KV TRANSFORMER CKT 1	Upgrade 115/69 kV transformers.	0	15SP	06/01/1	5 06/01/15
SPS	CROSBY INTERCHANGE 115/69KV TRANSFORMER CKT 2	Upgrade 115/69 kV transformers.	0	15SP	06/01/1	5 06/01/15
SPS	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	Upgrade Roosevelt to Curry 115 kV circuit w/795 ACSR	0	15SP	06/01/1	5 06/01/15
		Add 2nd 230 kV circuit and 2nd 230/115 kV transformer at				T
SPS	MOORE COUNTY INTERCHANGE E - POTTER COUNTY INTERCHANGE 230 KV	Moore. 230 kV construction using 795 ACSR.	0	15SP	06/01/1	5 06/01/15
SPS	YOAKUM COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	Upgrade Transformer 230/115 kV 252 MVA	165	15SP	06/01/0	8 06/01/08
		Replace three 600A switches @ Bull Shoals w/ 1200 A switches				1
		Resag conductor and replace structures as necessary to				
SWPA	BULL SHOALS - BULL SHOALS 161KV CKT 1 SWPA	achieve 195 MW rating.	83	15SP	06/01/1	5 06/01/15
WEPL	HEIZER - KNOLL 230KV	Construct Rhoades to Phillipsburg 56373 to 58785	0	15SP	06/01/1	
WERE	166TH STREET - JAGGARD JUNCTION 115KV CKT 1	Tear down and rebuild 3.66 mile 166-Jaggard 115 kV line.	0	15SP	06/01/1	3 06/01/13
		Tear down and rebuild 2.72 mile Tecumseh Hill-27th & Croco			******	1
WERE	27TH & CROCO - TECUMSEH HILL 115KV	115 kV line as a single circuit.	0	10SP	06/01/1	0 06/01/10
		Tear down and rebuild 3.43 mile 27th & Croco-41st & California	-			
WERE	27TH & CROCO JUNCTION - 41ST & CALIFORNIA 115KV	115 kV line as a single circuit.	0	10SP	06/01/1	0 06/01/10
WERE	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	Rebuild 15.50 mile Circleville-Hoyt HTI Junction 115 kV line.	0	06FA	06/01/0	
WERE	HALSTEAD SOUTH - SEDGWICK COUNTY NO. 12 COLWICH 138KV CKT 1	Replace disconnect switches.	0	15SP	06/01/1	
WERE	JEC - Swissvale 345KV	Construct JEC-Swissvale 345 kV line.	0	10SP	06/01/1	
	one omorale creaty	Replace the three Neosho 138-69 kV #2 transformers (#2A,			55/01/1	. 00/01/1
WERE	NEOSHO\ 138/69/12.47KV TRANSFORMER	#2B, #2C) with one 85 MVA transformer.	0	10SP	06/01/0	9 06/01/09
VVLIVE.	NEODIO (100/00/12.47IV) TIVINOI ONNEIX	Move the Midland Jct. 161-115 kV transformer to Tecumseh	0	1001	00/01/0	00/01/03
WERE	TECUMSEH HILL () 161/115/13.8KV TRANSFORMER CKT 1	Hill	0	10WP	06/01/1	06/01/10
VVERE	TEOUNIGETTHEE () 101/113/13.0NV TRAINGFORWER GNT 1	Tear down and rebuild 7.88 mile West McPherson-Wheatland	U	IUVVF	06/01/1	00/01/10
WEDE	MEST MODIFERSON, WIFE ATLAND 445KV CKT 4	115 kV line.	0	15SP	00/04/4	00/04/4
WERE	WEST MCPHERSON - WHEATLAND 115KV CKT 1		0		06/01/1	
WFEC	Marietta Switch Capacitor	12 MVAR at Marietta Switch	235	15SP	06/01/1	
WFEC	Pink Switch 138 KV Capacitor	Pink Switch 12MVAR Capacitor Bank	79	10SP	06/01/1	υ 0

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

Previously Assigned Aggregate Study Upgrades that May Require Credits to Previous Aggregate Study Customers

			Earliest Date	Estimated Date of	Estimated
Transmission			Upgrade Required	Upgrade Completion	Engineering &
Owner	Upgrade	Solution	(COD)	(EOC)	Construction Cost
GRRD	412SUB - KANSAS TAP 161KV CKT 1	Reconductor 9.7 miles with 1590MCM ACSR.	6/1/2015	6/1/2015	\$1,488,000
GRRD	412SUB - KERR 161KV CKT 1	Reconductor 12.5 miles with 1590MCM ACSR	6/1/2015	6/1/2015	\$1,918,000

Rollover Right Limitations for Point-to-Point Requests

Transmission		
Owner	Limiting Facility	Earliest Date Upgrade Required (COD)
	BONANZA - HACKETT AECC 161KV CKT 1	06/01/15
AEPW	CHEROKEE REC - KNOX LEE 138KV CKT 1	06/01/15
AEPW	ROCK HILL - TATUM 138KV CKT 1	06/01/15
AEPW	FULTON - HOPE 115KV CKT 1	06/01/10

Table 5 - Third Party Facility Constraints

					Earliest Date	Estimated Date of	
Transmission			Minimum ATC per	Season of Minimum	Upgrade Required	Upgrade Completion	Estimated Engineering
Owner	Upgrade	Solution	Upgrade (MW)	Allocated ATC	(COD)	(EOC)	& Construction Cost
ENTR	3BISMRK - 3HSEHVW 115KV CKT 1	Murfreesboro South Project	0	06SP	6/1/2006	6/1/2008	\$ 18,000,000
SUNC	Spearville - Mooreland 345 kV SUNC	New 345 kV line from Spearville to Kansas/Oklahoma Stateline	0	07SP	05/01/10	05/01/10	\$ 31,000,000

Rollover Right Limitations for Point-to-Point Requests

Transmission		
Owner	Limiting Facility	Earliest Date Upgrade Required (COD)
ENTR	3JNSBRO 115 - DANVILLE 115 (LPL) 115KV CKT 1	6/1/2010
ENTR	LINE 558 TAP - MT. ZION 138KV CKT 1	6/1/2013
ENTR	HUNTSVILLE - LINE 558 TAP 138KV CKT 1	6/1/2015
ENTR	GRIMES - WALDEN 138KV CKT 1	6/1/2013
ENTR	GRMXF 345 345/138KV TRANSFORMER CKT 1	6/1/2013
ENTR	GRMXF 345 345/138KV TRANSFORMER CKT 2	6/1/2013

 $\underline{\textbf{Table 6}} \text{ - Potential Redispatch Relief Pairs to Prevent Deferral of Service}$

ANACONDA - FREEMAN 69KV CKT 1 ANACONDA - FREEMAN 69KV CKT 1 To->From BELTON SOUTH - GRD OAK 161KV CKT 1 59292592911593405934211306SP 6/1/06 - 10/1/06 Upgrade: Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed:

		Aggregate Relief									
Reservation	Relief Amount	Amount									
977015 or 977018	0.6	0.6									
311013 01 311010	0.0	0.0	Maximum		Sink			Maximum			Redispatch
			Increment		Control			Decrement			Amount
Source Control Area	Source	Source Id	(MW)	GSF	Area	Sink	Sink Id	(MW)	GSF	Factor	(MW)
MIPU	RALPH GREEN GENERATING UNIT #3	3	51.3	-0.07392	MIPU	SHARPR#	1	105.0	0.05785	-0.13177	5
MIPU	RALPH GREEN GENERATING UNIT #3	3	51.3	-0.07392	MIPU	SHARPR#	2	105.0	0.05785	-0.13177	5
MIPU	RALPH GREEN GENERATING UNIT #3	3	51.3	-0.07392	MIPU	SHARPR#	3	105.0	0.05785	-0.13177	5
MIPU	RALPH GREEN GENERATING UNIT #3	3	51.3	-0.07392	MIPU	SIBLEY GI	3	229.9	-0.00125	-0.07267	8
MIPU	RALPH GREEN GENERATING UNIT #3	3	51.3	-0.07392	MIPU	SIBLEY GI	2	23.0	-0.00107	-0.07285	8
MIPU	RALPH GREEN GENERATING UNIT #3	3	51.3	-0.07392	MIPU	SIBLEY GI	1	23.0	-0.00107	-0.07285	8
MIPU	RALPH GREEN GENERATING UNIT #3	3	51.3	-0.07392	MIPU	LAKE ROA	1	117.0	0.00038	-0.0743	8
MIPU	RALPH GREEN GENERATING UNIT #3	3	51.3	-0.07392	MIPU	GREENWO	1	57.0	-0.00694	-0.06698	9
MIPU	RALPH GREEN GENERATING UNIT #3	3	51.3	-0.07392	MIPU	GREENWO	2	58.0	-0.00694	-0.06698	9
MIPU	RALPH GREEN GENERATING UNIT #3	3	51.3	-0.07392	MIPU	GREENWO	3	58.0	-0.00694	-0.06698	9
MIPU	RALPH GREEN GENERATING UNIT #3	3	51.3	-0.07392	MIPU	GREENWO	4	59.0	-0.00694	-0.06698	9
MIPU	RALPH GREEN GENERATING UNIT #3	3	51.3	-0.07392	MIPU	ARIES CO	1	144.0	-0.00754	-0.06638	9
MIPU	ARIES STEAM TURBINE	1	265.0	-0.00754	MIPU	SHARPR#	1	105.0	0.05785	-0.06539	9
MIPU	NEVADA GENERATING UNIT #1	1	20.3	-0.00773	MIPU	SHARPR#	1	105.0	0.05785	-0.06558	9
MIPU	ARIES COMBUSTION TURBINE #2	1	165.0	-0.00754		SHARPR#	1	105.0	0.05785	-0.06539	9
MIPU	ARIES COMBUSTION TURBINE #1	1	21.0	-0.00754	MIPU	SHARPR#	1	105.0	0.05785	-0.06539	9
MIPU	ARIES STEAM TURBINE	1	265.0	-0.00754		SHARPR#	2	105.0	0.05785	-0.06539	9
MIPU	NEVADA GENERATING UNIT #1	1	20.3	-0.00773	MIPU	SHARPR#	2	105.0	0.05785	-0.06558	9
MIPU	ARIES COMBUSTION TURBINE #2	1	165.0	-0.00754		SHARPR#	2	105.0	0.05785	-0.06539	9
MIPU	ARIES COMBUSTION TURBINE #1	1	21.0	-0.00754	MIPU	SHARPR#	2	105.0	0.05785	-0.06539	9
MIPU	NEVADA GENERATING UNIT #1	1	20.3	-0.00773		SHARPR#	3	105.0	0.05785	-0.06558	9
MIPU	ARIES STEAM TURBINE	1	265.0	-0.00754		SHARPR#	3	105.0	0.05785	-0.06539	
MIPU	ARIES COMBUSTION TURBINE #2	1	165.0	-0.00754		SHARPR#	3	105.0	0.05785	-0.06539	
MIPU	ARIES COMBUSTION TURBINE #1	1	21.0	-0.00754		SHARPR#	3	105.0	0.05785	-0.06539	
MIPU	TWA#2	1	17.5	-0.00001		SHARPR#	1	105.0	0.05785	-0.05786	
MIPU	SIBLEY GENERATING UNIT #3	3	20.1	-0.00125		SHARPR#	1	105.0	0.05785	-0.0591	10
MIPU	TWA#1	1	14.6	-0.00001		SHARPR#	1	105.0	0.05785	-0.05786	
MIPU	LAKE ROAD	1	135.0	0.00038		SHARPR#	1	105.0	0.05785	-0.05747	10
MIPU	SIBLEY GENERATING UNIT #3	3	20.1	-0.00125		SHARPR#	2	105.0	0.05785	-0.0591	10
MIPU	LAKE ROAD	1	135.0	0.00038		SHARPR#	2	105.0	0.05785	-0.05747	10
MIPU	TWA#1	1	14.6	-0.00001		SHARPR#	2	105.0	0.05785	-0.05786	
MIPU	TWA#2	1	17.5	-0.00001		SHARPR#	2	105.0	0.05785	-0.05786	
MIPU	LAKE ROAD	1	135.0	0.00038		SHARPR#	3	105.0	0.05785	-0.05747	10
MIPU	SIBLEY GENERATING UNIT #3	3	20.1	-0.00125	MIPU	SHARPR#	3	105.0	0.05785	-0.0591	10
MIPU	TWA#1	1	14.6	-0.00001		SHARPR#	3	105.0	0.05785	-0.05786	
MIPU	TWA#2	1	17.5	-0.00001	MIPU	SHARPR#	3	105.0	0.05785	-0.05786	10

| MIPU | 1 | 17.5| -0.00001|MIPU | SHARPK#| 3 | 10 | 17.5| -0.00001|MIPU | SHARPK#| 3 | 10 | 17.5| | 10.00001|MIPU | SHARPK#| 3 | 10 | 17.5| | 10.00001|MIPU | SHARPK#| 3 | 10 | 17.5| | 10.00001|MIPU | SHARPK#| 3 | 10 | 17.5| | 10.00001|MIPU | SHARPK#| 3 | 10 | 17.5| | 10.00001|MIPU | SHARPK#| 3 | 10 | 17.5| | 10.00001|MIPU | SHARPK#| 3 | 10 | 17.5| | 10.00001|MIPU | SHARPK#| 3 | 10 | 17.5| | 10.00001|MIPU | SHARPK#| 3 | 10 | 17.5| | 10.00001|MIPU | SHARPK#| 3 | 10 | 17.5| | 10.00001|MIPU | SHARPK#| 3 | 10 | 17.5| | 10.00001|MIPU | SHARPK#| 3 | 10 | 17.5| | 10.00001|MIPU | SHARPK#| 3 | 10 | 17.5| | 10.00001|MIPU | SHARPK#| 3 | 10 | 17.5| | 10.00001|MIPU | SHARPK#| 3 | 10 | 17.5| | 10.00001|MIPU | SHARPK#| 3 | 10 | 17.5| | 10.00001|MIPU | SHARPK#| 3 | 10 | 17.5| | 10.00001|MIPU | SHARPK#| 3 | 10.00001|MIPU | SHARPK#| 3

 $\underline{\textbf{Table 6}} \text{ - Potential Redispatch Relief Pairs to Prevent Deferral of Service}$

ANACONDA - FREEMAN 69KV CKT 1 ANACONDA - FREEMAN 69KV CKT 1 To->From BELTON SOUTH - GRD OAK 161KV CKT 1 59292592911593405934213307SP 6/1/07-10/1/07 Upgrade: Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed:

Reservation	Relief Amount	Relief Amount									
897453	2.3	2.9									
977015 or 977018	0.6	2.9									
011010 01 011010	0.0	2.0	Maximum		Sink			Maximum			Redispa
			Increment		Control			Decrement		1	Amour
Source Control Area	Source	Source Id	(MW)	GSF	Area	Sink	Sink Id	(MW)	GSF	Factor	(MW)
IPU	RALPH GREEN GENERATING UNIT #3	3	73.7	-0.07392	MIPU	SHARPR#	1	105.0	0.05785	-0.13177	
IPU	RALPH GREEN GENERATING UNIT #3	3	73.7	-0.07392	MIPU	SHARPR#	2	105.0	0.05785	-0.13177	1
IPU	RALPH GREEN GENERATING UNIT #3	3	73.7	-0.07392	MIPU	SHARPR#	3	105.0	0.05785	-0.13177	
IPU	RALPH GREEN GENERATING UNIT #3	3	73.7	-0.07392	MIPU	SIBLEY GI	3	229.9	-0.00125	-0.07267	
PU	RALPH GREEN GENERATING UNIT #3	3	73.7	-0.07392	MIPU	SIBLEY GI	2	23.0	-0.00107	-0.07285	
PU	RALPH GREEN GENERATING UNIT #3	3	73.7	-0.07392	MIPU	SIBLEY GI	1	23.0	-0.00107	-0.07285	
PU	RALPH GREEN GENERATING UNIT #3	3	73.7	-0.07392		LAKE ROA	1	117.0	0.00039		
PU	RALPH GREEN GENERATING UNIT #3	3	73.7	-0.07392		GREENWO	2	58.0	-0.00697	-0.06695	
PU	RALPH GREEN GENERATING UNIT #3	3	73.7	-0.07392		GREENWO	3	58.0	-0.00697	-0.06695	
PU	RALPH GREEN GENERATING UNIT #3	3	73.7	-0.07392		GREENWO	4	59.0	-0.00697	-0.06695	
PU	RALPH GREEN GENERATING UNIT #3	3	73.7	-0.07392		ARIES CO	1	120.0	-0.00757	-0.06635	
PU	NEVADA GENERATING UNIT #1	1	20.3	-0.00772		SHARPR#	1	105.0	0.05785	-0.06557	
PU	ARIES STEAM TURBINE	1	265.0	-0.00757		SHARPR#	1	105.0	0.05785		
PU	GREENWOOD GENERATING UNIT #1	1	53.6	-0.00697		SHARPR#	1	105.0	0.05785		
PU	ARIES COMBUSTION TURBINE #1	1	45.0	-0.00757		SHARPR#	1	105.0	0.05785		
PU	ARIES COMBUSTION TURBINE #2	1	165.0	-0.00757		SHARPR#	1	105.0	0.05785		
PU	ARIES COMBUSTION TURBINE #2	1	165.0	-0.00757		SHARPR#	2	105.0	0.05785		
PU	GREENWOOD GENERATING UNIT #1	1	53.6	-0.00697		SHARPR#	2	105.0	0.05785		:
PU	NEVADA GENERATING UNIT #1	1	20.3	-0.00772		SHARPR#	2	105.0	0.05785		
PU	ARIES COMBUSTION TURBINE #1	1	45.0	-0.00757		SHARPR#	2	105.0	0.05785		
PU	ARIES STEAM TURBINE	1	265.0	-0.00757		SHARPR#	2	105.0	0.05785		
PU	ARIES COMBUSTION TURBINE #2	1	165.0	-0.00757		SHARPR#	3	105.0	0.05785		
PU	ARIES STEAM TURBINE	1	265.0	-0.00757		SHARPR#	3	105.0	0.05785		
PU	NEVADA GENERATING UNIT #1	1	20.3	-0.00772		SHARPR#	3	105.0	0.05785		
PU	GREENWOOD GENERATING UNIT #1	1	53.6	-0.00697		SHARPR#	3	105.0	0.05785		
PU	ARIES COMBUSTION TURBINE #1	1	45.0	-0.00757		SHARPR#	3	105.0	0.05785		
PU	SIBLEY GENERATING UNIT #3	3	20.1	-0.00125		SHARPR#	11	105.0	0.05785		
PU	SIBLEY GENERATING UNIT #3	3	20.1	-0.00125		SHARPR#	2	105.0	0.05785		
PU	SIBLEY GENERATING UNIT #3	3	20.1	-0.00125		SHARPR#	3	105.0	0.05785	-0.0591	
PU	TWA#2	1	17.5	-0.00001		SHARPR#	1	105.0	0.05785		
PU	LAKE ROAD	1	135.0	0.00039		SHARPR#	1	105.0	0.05785		
PU	LAKE ROAD	1	135.0	0.00039		SHARPR#	2	105.0	0.05785		
PU	TWA#2	1	17.5	-0.00001		SHARPR#	2	105.0	0.05785		
PU	TWA#2	1	17.5	-0.00001		SHARPR#	3	105.0	0.05785		
IPU	LAKE ROAD Maximum Increment were determine from the Souc	1 1	135.0	0.00039		SHARPR#	3	105.0	0.05785	-0.05746	

 $\underline{\textbf{Table 6}} \text{ - Potential Redispatch Relief Pairs to Prevent Deferral of Service}$

ANACONDA - FREEMAN 69KV CKT 1 ANACONDA - FREEMAN 69KV CKT 1 To->From PLEASANT HILL - RALPH GREEN 69KV CKT 1 59292592911592805927913307SP 6/1/07 - 10/1/07 Upgrade: Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed:

		Aggregate	1								
		Relief									
Reservation	Relief Amount	Amount									
897453	0.1	0.2	1								
977015 or 977018	0.1	0.2	1								
			Maximum		Sink			Maximum			Redispatch
			Increment		Control			Decrement			Amount
Source Control Area	Source	Source Id	(MW)	GSF	Area	Sink	Sink Id	(MW)	GSF	Factor	(MW)
MIPU	RALPH GREEN GENERATING UNIT #3	3	73.7	-0.21593		SIBLEY GI	3	229.9	-0.00006	-0.21587	
MIPU	RALPH GREEN GENERATING UNIT #3	3	73.7	-0.21593	MIPU	SIBLEY GI	2	23.0	0.00023	-0.21616	
MIPU	RALPH GREEN GENERATING UNIT #3	3	73.7	-0.21593	MIPU	SIBLEY GI	1	23.0	0.00023	-0.21616	
MIPU	RALPH GREEN GENERATING UNIT #3	3	73.7	-0.21593	MIPU	GREENWO	2	58.0	-0.00207	-0.21386	
MIPU	RALPH GREEN GENERATING UNIT #3	3	73.7	-0.21593	MIPU	GREENWO	3	58.0	-0.00207	-0.21386	
MIPU	RALPH GREEN GENERATING UNIT #3	3	73.7	-0.21593	MIPU	GREENWO	4	59.0	-0.00207	-0.21386	
MIPU	RALPH GREEN GENERATING UNIT #3	3	73.7	-0.21593		ARIES CO	1	120.0	-0.00251	-0.21342	
MIPU	RALPH GREEN GENERATING UNIT #3	3	73.7	-0.21593		SHARPR#	1	105.0	0.03998	-0.25591	
MIPU	RALPH GREEN GENERATING UNIT #3	3	73.7	-0.21593	MIPU	SHARPR#	2	105.0	0.03998	-0.25591	
MIPU	RALPH GREEN GENERATING UNIT #3	3	73.7	-0.21593	MIPU	SHARPR#	3	105.0	0.03998	-0.25591	
MIPU	RALPH GREEN GENERATING UNIT #3	3	73.7	-0.21593		LAKE ROA	1	117.0	0.00151	-0.21744	
MIPU	TWA#1	1	14.6	0.00159	MIPU	SHARPR#	1	105.0	0.03998	-0.03839	
MIPU	SIBLEY GENERATING UNIT #3	3	20.1	-0.00006		SHARPR#	1	105.0	0.03998	-0.04004	
MIPU	ARIES COMBUSTION TURBINE #2	1	165.0	-0.00251		SHARPR#	1	105.0	0.03998	-0.04249	
MIPU	GREENWOOD GENERATING UNIT #1	1	53.6	-0.00207	MIPU	SHARPR#	1	105.0	0.03998	-0.04205	
MIPU	TWA#2	1	17.5	0.00159	MIPU	SHARPR#	1	105.0	0.03998	-0.03839	
MIPU	ARIES STEAM TURBINE	1	265.0	-0.00251	MIPU	SHARPR#	1	105.0	0.03998	-0.04249	
MIPU	ARIES COMBUSTION TURBINE #1	1	45.0	-0.00251	MIPU	SHARPR#	1	105.0	0.03998	-0.04249	
MIPU	LAKE ROAD	1	135.0	0.00151	MIPU	SHARPR#	1	105.0	0.03998	-0.03847	
MIPU	NEVADA GENERATING UNIT #1	1	20.3	-0.00967		SHARPR#	1	105.0	0.03998	-0.04965	
MIPU	SIBLEY GENERATING UNIT #3	3	20.1	-0.00006	MIPU	SHARPR#	2	105.0	0.03998	-0.04004	
MIPU	GREENWOOD GENERATING UNIT #1	1	53.6	-0.00207		SHARPR#	2	105.0	0.03998	-0.04205	
MIPU	ARIES COMBUSTION TURBINE #2	1	165.0	-0.00251	MIPU	SHARPR#	2	105.0	0.03998	-0.04249	
MIPU	ARIES STEAM TURBINE	1	265.0	-0.00251	MIPU	SHARPR#	2	105.0	0.03998	-0.04249	
MIPU	LAKE ROAD	1	135.0	0.00151		SHARPR#	2	105.0	0.03998	-0.03847	
MIPU	ARIES COMBUSTION TURBINE #1	1	45.0	-0.00251	MIPU	SHARPR#	2	105.0	0.03998	-0.04249	
MIPU	TWA#2	1	17.5	0.00159	MIPU	SHARPR#	2	105.0	0.03998	-0.03839	
MIPU	TWA#1	1	14.6	0.00159		SHARPR#	2	105.0	0.03998	-0.03839	
MIPU	NEVADA GENERATING UNIT #1	1	20.3	-0.00967		SHARPR#	2	105.0	0.03998	-0.04965	
MIPU	ARIES STEAM TURBINE	1	265.0	-0.00251		SHARPR#	3	105.0	0.03998	-0.04249	
MIPU	LAKE ROAD	1	135.0	0.00151		SHARPR#	3	105.0	0.03998	-0.03847	
MIPU	ARIES COMBUSTION TURBINE #1	1	45.0	-0.00251		SHARPR#	3	105.0	0.03998	-0.04249	
MIPU	TWA#2	1	17.5	0.00159	MIPU	SHARPR#	3	105.0	0.03998	-0.03839	
MIPU	TWA#1	1	14.6	0.00159	MIPU	SHARPR#	3	105.0	0.03998	-0.03839	
MIPU	NEVADA GENERATING UNIT #1	1	20.3	-0.00967		SHARPR#	3	105.0	0.03998	-0.04965	
MIPU	GREENWOOD GENERATING UNIT #1	1	53.6	-0.00207	MIPU	SHARPR#	3	105.0	0.03998	-0.04205	

MIPU SIBLEY GENERATING UI
MIPU ARIES COMBUSTION TU
Maximum Decrement and Maximum Increment were de
Factor = Source GSF - Sink GSF
Redispatch Amount = Relief Amount / Factor

<u>Table 6</u> - Potential Redispatch Relief Pairs to Prevent Deferral of Service

Control

Area

MIPU

MIPL

MIPU MIPU MIPU

MIPL

0.00125 MIPU

-0.00001 MIPU

14.6

14.6

Sink

HARPR:

AKE RO SIBLEY G SIBLEY G SIBLEY G

REENV

ARIES C

SHARPR SHARPR SHARPR

SHARPR# SHARPR# SHARPR# SHARPR#

SHARPR SHARPR

HARPR

SHARPR:

HARPR

SHARPR SHARPR SHARPR

SHARPR

SHARPR SHARPR

SHARPR#

SHARPR SHARPR SHARPR

SHARPR#

Upgrade: Limiting Facility: ANACONDA - HARRISONVILLE WEST 69KV CKT 1 ANACONDA - HARRISONVILLE WEST 69KV CKT 1 Direction: From->To

BELTON SOUTH - GRD OAK 161KV CKT 1 Line Outage Flowgate:

Date Redispatch Needed:	6/1/07-10/1/07				
		Aggregate			
		Relief			
Reservation	Relief Amount	Amount			
897453	1.5	1.9			
977015 or 977018	0.4	1.9			
			Maximum		Sinl
			Increment		Cont
Source Control Area	Source	Source Id	(MW)	GSF	Area
MIPU	RALPH GREEN GENERATING UNIT #3	3	73.7	-0.07392	
MIPU	RALPH GREEN GENERATING UNIT #3	3	73.7	-0.07392	
MIPU	RALPH GREEN GENERATING UNIT #3	3	73.7	-0.07392	
MIPU	RALPH GREEN GENERATING UNIT #3	3	73.7	-0.07392	MIPU
MIPU	RALPH GREEN GENERATING UNIT #3	3	73.7	-0.07392	MIPU
MIPU	RALPH GREEN GENERATING UNIT #3	3	73.7	-0.07392	MIPU
MIPU	RALPH GREEN GENERATING UNIT #3	3	73.7	-0.07392	MIPU
MIPU	RALPH GREEN GENERATING UNIT #3	3	73.7	-0.07392	MIPU
MIPU	RALPH GREEN GENERATING UNIT #3	3	73.7	-0.07392	MIPU
MIPU	RALPH GREEN GENERATING UNIT #3	3	73.7	-0.07392	MIPU
MIPU	RALPH GREEN GENERATING UNIT #3	3	73.7	-0.07392	MIPU
MIPU	NEVADA GENERATING UNIT #1	1	20.3	-0.00772	MIPU
MIPU	NEVADA GENERATING UNIT #1	1	20.3	-0.00772	MIPU
MIPU	NEVADA GENERATING UNIT #1	1	20.3	-0.00772	MIPU
MIPU	ARIES STEAM TURBINE	1	265.0	-0.00757	MIPU
MIPU	GREENWOOD GENERATING UNIT #1	1	53.6	-0.00697	MIPU
MIPU	ARIES COMBUSTION TURBINE #2	1	165.0	-0.00757	MIPU
MIPU	ARIES COMBUSTION TURBINE #1	1	45.0	-0.00757	MIPU
MIPU	GREENWOOD GENERATING UNIT #1	1	53.6	-0.00697	MIPU
MIPU	ARIES COMBUSTION TURBINE #2	1	165.0	-0.00757	MIPU
MIPU	ARIES COMBUSTION TURBINE #1	1	45.0	-0.00757	MIPU

GREENWOOD GENERATING UNIT #1

ARIES COMBUSTION TURBINE #2

ARIES COMBUSTION TURBINE #1

RIES COMBUSTION TURBINE #1
RIES COMBUSTION TURBINE #2
RIES STEAM TURBINE

GREENWOOD GENERATING UNIT #1
LAKE ROAD
TWA#2

SIBLEY GENERATING UNIT #3
LAKE ROAD

IBLEY GENERATING UNIT #3

SIBLEY GENERATING UNIT #3

WA#2

RIES STEAM TURBINE

Maximum Decrement and M

Factor = Source GSF - Sink GSF

MIPU

MIPU MIPU MIPU MIPU MIPU MIPU

MIPU

Redispatch Amount = Relief Amount / Factor

Redispato Amount (MW)

GSF

-0.00107

-0.00757

0.05785

0.05785

0.0578

0.05785

0.05785

(MW)

120.0

105.0

105.

105.0

105. 105.

105.

105.0

Factor

-0.0743

-0.0669

-0.0669

-0.0663

-0.0655

-0.0654

-0.06482 -0.06542

-0.0654

-0.0654

-0.0654

-0.0648 -0.0574 -0.0578

-0.0578

-0.059

-0.05786

32

 $\underline{\textbf{Table 6}} \text{ - Potential Redispatch Relief Pairs to Prevent Deferral of Service}$

CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1
CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1
To->From
IATAN - ST JOE 345KV CKT 1
57152571651579825919913106SH
6/1/06-10/1/06 Upgrade: Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed:

Reservation	Relief Amount	Aggregate Relief Amount
974660	2.0	2.1
974976	0.1	2.1

374000	2:0	2.1									
974976	0.1	2.1									
			Maximum		Sink			Maximum			Redispatch
			Increment		Control			Decrement			Amount
Source Control Area	Source	Source Id	(MW)	GSF	Area	Sink	Sink Id	(MW)	GSF	Factor	(MW)
WEPL	'CLIFTON GENERATOR'	1	48.3			'A. M. MUL	3	63.0		-0.10618	
WEPL	'CLIFTON GENERATOR'	1	48.3			'JUDSON I	4	116.6	0.00336	-0.10084	
WEPL	'CLIFTON GENERATOR'	1	48.3	-0.09748		'GRAY CO	1	96.0	0.00335	-0.10083	
WERE	'GETTY'	1	35.0	-0.00294		TECUMSE	1	40.0	0.04917	-0.05211	
WERE	'GETTY'	1	35.0			TECUMSE	1	68.0	0.04917	-0.05211	
WERE	'GETTY'	1	35.0			'JEFFREY	1	470.0	0.04071	-0.04365	
WERE	'GETTY'	1	35.0			'JEFFREY	1	470.0	0.04071	-0.04365	
WERE	'GETTY'	1	35.0	-0.00294		'JEFFREY	1	470.0	0.03782	-0.04076	
WERE	'GILL ENERGY CENTER UNIT 1'	1	44.0			TECUMSE	1	40.0	0.04917	-0.04103	
WERE	'NEOSHO ENERGY CENTER UNIT 3'	1	67.0			TECUMSE	1	40.0	0.04917	-0.04096	52
WERE	'GILL ENERGY CENTER UNIT 2'	1	74.0			TECUMSE	1	40.0	0.04917	-0.04103	52
WERE	'GILL ENERGY CENTER UNIT 3'	1	112.0	0.00824	WERE	TECUMSE	1	40.0	0.04917	-0.04093	52
WERE	'GILL ENERGY CENTER UNIT 3'	1	112.0	0.00824	WERE	TECUMSE	1	68.0	0.04917	-0.04093	52 3 52 3 52
WERE	'GILL ENERGY CENTER UNIT 2'	1	74.0	0.00814	WERE	TECUMSE	1	68.0	0.04917	-0.04103	52
WERE	'NEOSHO ENERGY CENTER UNIT 3'	1	67.0	0.00821	WERE	TECUMSE	1	68.0	0.04917	-0.04096	52
WERE	'GILL ENERGY CENTER UNIT 1'	1	44.0	0.00814	WERE	TECUMSE	1	68.0	0.04917	-0.04103	
WERE	'EVANS ENERGY CENTER GAS TURBINE 2'	1	80.0	0.00952	WERE	TECUMSE	1	40.0	0.04917	-0.03965	53
WERE	'EVANS ENERGY CENTER GAS TURBINE 1'	1	80.0	0.00952	WERE	TECUMSE	1	40.0	0.04917	-0.03965	
WERE	'EVANS ENERGY CENTER GAS TURBINE 3'	1	154.0	0.00952	WERE	TECUMSE	1	40.0	0.04917	-0.03965	
WERE	'EVANS ENERGY CENTER GAS TURBINE 3'	1	154.0	0.00952	WERE	TECUMSE	1	68.0	0.04917	-0.03965	
WERE	'EVANS ENERGY CENTER GAS TURBINE 2'	1	80.0	0.00952	WERE	TECUMSE	1	68.0	0.04917	-0.03965	
WERE	'EVANS ENERGY CENTER GAS TURBINE 1'	1	80.0	0.00952	WERE	TECUMSE	1	68.0	0.04917	-0.03965	
WERE	'EVANS ENERGY CENTER UNIT 2'	1	24.2	0.00953	WERE	TECUMSE	1	40.0	0.04917	-0.03964	
WERE	'EVANS ENERGY CENTER UNIT 1'	1	151.0	0.00953	WERE	TECUMSE	1	40.0	0.04917	-0.03964	
WERE	'EVANS ENERGY CENTER UNIT 2'	1	24.2	0.00953	WERE	TECUMSE	1	68.0	0.04917	-0.03964	54
WERE	'EVANS ENERGY CENTER UNIT 1'	1	151.0	0.00953	WERE	'TECUMSE	1	68.0	0.04917	-0.03964	
WERE	'GETTY'	1	35.0	-0.00294	WERE	'LAWRENG	1	25.0	0.03442	-0.03736	57
WERE	'GETTY'	1	35.0	-0.00294	WERE	'LAWRENG	1	60.0	0.0345	-0.03744	57
WERE	'GETTY'	1	35.0	-0.00294	WERE	'LAWRENG	1	227.7	0.03426	-0.0372	57

NEXT IN THE RELIEF TO THE SOURCE AND 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

 $\underline{\textbf{Table 6}} \text{ - Potential Redispatch Relief Pairs to Prevent Deferral of Service}$

CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1
CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1
To->From
IATAN - ST JOE 345KV CKT 1
57152571661579825919913106SP
6/1/06-10/1/06 Upgrade: Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch

		Aggregate Relief
Reservation	Relief Amount	Amount
974660	2.0	2.1
974976	0.1	2.1

974660	2.0	2.1									
974976	0.1	2.1									
			Maximum		Sink			Maximum			Redispatch
			Increment		Control			Decrement			Amount
Source Control Area	Source	Source Id	(MW)	GSF	Area	Sink	Sink Id	(MW)	GSF	Factor	(MW)
WERE	'GETTY'	1	35.0	-0.00294	WERE	TECUMSE	1	40.0	0.04917	-0.05211	1 41
WERE	'GETTY'	1	35.0	-0.00294	WERE	TECUMSE	1	88.0	0.04917	-0.05211	1 41
WERE	'GETTY'	1	35.0	-0.00294	WERE	'JEFFREY	1	470.0	0.04071	-0.04365	5 49
WERE	'GETTY'	1	35.0	-0.00294		'JEFFREY	1	470.0	0.04071	-0.04365	
WERE	'GETTY'	1	35.0	-0.00294	WERE	'JEFFREY	1	470.0	0.03782	-0.04076	
WERE	'NEOSHO ENERGY CENTER UNIT 3'	1	47.0	0.00821	WERE	TECUMSE	1	40.0	0.04917	-0.04096	
WERE	'GILL ENERGY CENTER UNIT 2'	1	29.0	0.00814	WERE	TECUMSE	1	40.0	0.04917	-0.04103	
WERE	'GILL ENERGY CENTER UNIT 1'	1	44.0	0.00814	WERE	TECUMSE	1	40.0	0.04917	-0.04103	
WERE	'GILL ENERGY CENTER UNIT 1'	1	44.0	0.00814	WERE	TECUMSE	1	88.0	0.04917	-0.04103	
WERE	'NEOSHO ENERGY CENTER UNIT 3'	1	47.0	0.00821	WERE	TECUMSE	1	88.0	0.04917	-0.04096	
WERE	'GILL ENERGY CENTER UNIT 2'	1	29.0	0.00814	WERE	TECUMSE	1	88.0	0.04917	-0.04103	
WERE	'EVANS ENERGY CENTER GAS TURBINE 1'	1	30.0	0.00952	WERE	TECUMSE	1	40.0	0.04917	-0.03965	
WERE	'EVANS ENERGY CENTER GAS TURBINE 1'	1	30.0	0.00952	WERE	TECUMSE	1	88.0	0.04917	-0.03965	
WERE	'EVANS ENERGY CENTER UNIT 1'	1	49.0	0.00953	WERE	TECUMSE	1	40.0	0.04917	-0.03964	
WERE	'EVANS ENERGY CENTER UNIT 2'	1	23.0	0.00953	WERE	TECUMSE	1	40.0	0.04917	-0.03964	
WERE	'EVANS ENERGY CENTER UNIT 2'	1	23.0	0.00953	WERE	TECUMSE	1	88.0	0.04917	-0.03964	
WERE	'EVANS ENERGY CENTER UNIT 1'	1	49.0	0.00953	WERE	TECUMSE	1	88.0	0.04917	-0.03964	
WERE	'GETTY'	1	35.0	-0.00294	WERE	'LAWRENG	1	25.0	0.03442	-0.03736	
WERE	'GETTY'	1	35.0	-0.00294	WERE	'LAWRENG	1	60.0	0.0345	-0.03744	
WERE	'GETTY'	1	35.0	-0.00294	WERE	'LAWRENG	1	222.5	0.03427	-0.03721	
WERE	'GILL ENERGY CENTER UNIT 1'	1	44.0	0.00814	WERE	'JEFFREY	1	470.0	0.04071	-0.03257	
WERE	'GILL ENERGY CENTER UNIT 2'	1	29.0	0.00814	WERE	'JEFFREY	1	470.0	0.04071	-0.03257	
WERE	'NEOSHO ENERGY CENTER UNIT 3'	1	47.0	0.00821	WERE	'JEFFREY	1	470.0	0.04071	-0.0325	
WERE	'GILL ENERGY CENTER UNIT 2'	1	29.0	0.00814	WERE	'JEFFREY	1	470.0	0.04071	-0.03257	
WERE	'GILL ENERGY CENTER UNIT 1'	1	44.0	0.00814	WERE	'JEFFREY	1	470.0	0.04071	-0.03257	7 65
WERE	'NEOSHO ENERGY CENTER UNIT 3'	1	47.0	0.00821	WERE	'JEFFREY	1	470.0	0.04071	-0.0325	
WERE	'EVANS ENERGY CENTER GAS TURBINE 1'	1	30.0	0.00952	WERE	'JEFFREY	1	470.0	0.04071	-0.03119	
WERE	'EVANS ENERGY CENTER UNIT 1'	1	49.0	0.00953	WERE	'JEFFREY	1	470.0	0.04071	-0.03118	68
WERE	'EVANS ENERGY CENTER UNIT 2'	1	23.0	0.00953	WERE	'JEFFREY	1	470.0	0.04071	-0.03118	
WERE	'EVANS ENERGY CENTER GAS TURBINE 1'	1	30.0	0.00952	WERE	'JEFFREY	1	470.0	0.04071	-0.03119	68
WERE	'EVANS ENERGY CENTER UNIT 2'	1	23.0	0.00953	WERE	'JEFFREY	1	470.0	0.04071	-0.03118	68
WERE	'EVANS ENERGY CENTER UNIT 1'	1	49.0	0.00953	WERE	'JEFFREY	1	470.0	0.04071	-0.03118	68

WERE | EVANS ENERGY CENTER UNIT 1' 1 49.0| 0.00953|WERE | JEFFREY | 1 47
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

<u>Table 6</u> - Potential Redispatch Relief Pairs to Prevent Deferral of Service

CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1 CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1 To->From CLIFTON - GREENLEAF 115KV CKT 1 57152571651587565876513106SP 6/1/06-10/1/06

Upgrade: Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed:

Reservation	Relief Amount	Amount									
974660	1.5	1.5	i								
			Maximum		Sink			Maximum			Redispa
			Increment		Control			Decrement			Amou
Source Control Area	Source	Source Id	(MW)	GSF	Area	Sink	Sink Id	(MW)	GSF	Factor	(MW
ERE	'GETTY'	1	35.0	-0.00761	WERE	TECUMSE	1	40.0	0.04382	-0.05143	
'ERE	'GETTY'	1	35.0	-0.00761		TECUMSE	1	88.0	0.04382	-0.05143	
ERE	'GETTY'	1	35.0	-0.00761		'JEFFREY	1	470.0	0.03608	-0.04369	
ERE	'GETTY'	1	35.0	-0.00761		'JEFFREY	1	470.0	0.03659	-0.0442	
/ERE	'GETTY'	1	35.0	-0.00761	WERE	'JEFFREY	1	470.0	0.03659	-0.0442	
/ERE	'GILL ENERGY CENTER UNIT 2'	1	29.0	0.00498		TECUMSE	1	40.0	0.04382	-0.03884	
/ERE	'GILL ENERGY CENTER UNIT 1'	1	44.0	0.00498		TECUMSE	1	40.0	0.04382	-0.03884	
ERE	'GILL ENERGY CENTER UNIT 1'	1	44.0	0.00498		TECUMSE	1	88.0	0.04382	-0.03884	
ERE	'GILL ENERGY CENTER UNIT 2'	1	29.0	0.00498		TECUMSE	1	88.0	0.04382	-0.03884	
ERE	'GETTY'	1	35.0	-0.00761		'ABILENE	1	40.0	0.03084	-0.03845	
ERE	'EVANS ENERGY CENTER GAS TURBINE 1'	1	30.0	0.00631		TECUMSE	1	40.0	0.04382	-0.03751	
ERE	'EVANS ENERGY CENTER UNIT 2'	1	23.0	0.00632		TECUMSE	1	40.0	0.04382	-0.0375	
ERE E	'EVANS ENERGY CENTER UNIT 1'	1	49.0	0.00632		TECUMSE	1	40.0	0.04382	-0.0375	
/ERE	'NEOSHO ENERGY CENTER UNIT 3'	1 1	47.0	0.00576		TECUMSE	1	40.0	0.04382	-0.03806	
/ERE /ERE	'NEOSHO ENERGY CENTER UNIT 3' 'EVANS ENERGY CENTER UNIT 2'		47.0 23.0	0.00576		'TECUMSE 'TECUMSE	1	88.0 88.0	0.04382	-0.03806 -0.0375	
ERE	EVANS ENERGY CENTER UNIT 2	1 1	49.0	0.00632		TECUMSE	1	88.0	0.04382	-0.0375	
ERE	EVANS ENERGY CENTER UNIT 1	1	30.0	0.00632		TECUMSE	1	88.0	0.04382	-0.03751	
/ERE	GETTY'	1	35.0	-0.00631	WERE	'LAWRENG	1	222.5	0.04382	-0.03751	
/ERE	'GETTY'	1	35.0	-0.00761		'LAWRENG	1	25.0	0.02911	-0.03672	
/ERE	'GETTY'	1	35.0	-0.00761		'LAWRENG	1	60.0	0.02871	-0.03627	
/ERE	I'GETTY'	1	35.0	-0.00761		BPU - CIT	1	20.0	0.02574	-0.03335	
/ERE	'GETTY'	 	35.0	-0.00761		BPU - CIT	1	30.0	0.02574	-0.03335	
/ERE	'GETTY'	1	35.0	-0.00761		BPU - CIT	1	30.0	0.02574	-0.03335	
ERE .	'GETTY'	1	35.0	-0.00761		BPU - CIT	1	55.0	0.02572	-0.03333	
ERE .	'GILL ENERGY CENTER UNIT 1'	1	44.0	0.00498		'JEFFREY	1	470.0	0.03659	-0.03161	
/ERE	'GILL ENERGY CENTER UNIT 2'	1	29.0	0.00498		'JEFFREY	1	470.0	0.03659	-0.03161	
/ERE	'GILL ENERGY CENTER UNIT 2'	1	29.0	0.00498		'JEFFREY	1	470.0	0.03659	-0.03161	
/ERE	'GILL ENERGY CENTER UNIT 1'	1	44.0	0.00498		'JEFFREY	1	470.0	0.03659	-0.03161	
'ERE	'GETTY'	1	35.0	-0.00761	WERE	'HUTCHIN	1	120.0	0.02363	-0.03124	
'ERE	'GILL ENERGY CENTER UNIT 1'	1	44.0	0.00498	WERE	'JEFFREY	1	470.0	0.03608	-0.0311	
'ERE	'GILL ENERGY CENTER UNIT 2'	1	29.0	0.00498	WERE	'JEFFREY	1	470.0	0.03608	-0.0311	
'ERE	'NEOSHO ENERGY CENTER UNIT 3'	1	47.0	0.00576	WERE	'JEFFREY	1	470.0	0.03659	-0.03083	
/ERE	'NEOSHO ENERGY CENTER UNIT 3'	1	47.0	0.00576	WERE	'JEFFREY	1	470.0	0.03659	-0.03083	
ERE	'NEOSHO ENERGY CENTER UNIT 3'	1	47.0	0.00576	WERE	'JEFFREY	1	470.0	0.03608	-0.03032	
'ERE	'EVANS ENERGY CENTER UNIT 1'	1	49.0	0.00632		'JEFFREY	1	470.0	0.03659	-0.03027	
ERE	'EVANS ENERGY CENTER GAS TURBINE 1'	1	30.0	0.00631		'JEFFREY	1	470.0	0.03659	-0.03028	
'ERE	'EVANS ENERGY CENTER UNIT 2'	1	23.0	0.00632		'JEFFREY	1	470.0	0.03659	-0.03027	
'ERE	'EVANS ENERGY CENTER UNIT 1'	1	49.0	0.00632		'JEFFREY	1	470.0	0.03659	-0.03027	
/ERE	'EVANS ENERGY CENTER UNIT 2'	1	23.0	0.00632		'JEFFREY	1	470.0	0.03659	-0.03027	
/ERE	'EVANS ENERGY CENTER GAS TURBINE 1'	1	30.0	0.00631	WERE	'JEFFREY	1	470.0	0.03659	-0.03028	

 $\underline{\textbf{Table 6}} \text{ - Potential Redispatch Relief Pairs to Prevent Deferral of Service}$

CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1
CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1
To-sfrom
CONCORDIA - EAST MANHATTAN 230KV CKT 1
57152571651587585686112106SH
6/1/06-10/1/06 Upgrade: Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed:

Reservation	Relief Amount	Relief Amount									
974660	2.0	2.4									
974976	0.4	2.4									
			Maximum		Sink			Maximum			Redispa
0 0	2		Increment	005	Control	0: 1	0: 1 11	Decrement	005		Amour
Source Control Area	Source	Source I		GSF	Area	Sink	Sink Id	(MW)	GSF	Factor	(MW)
EPL EPL	'CLIFTON GENERATOR'	1	48.3	-0.18807		'JUDSON I	4	109.0	-0.00447	-0.1836	
EPL (EPL	'CLIFTON GENERATOR'	1	48.3	-0.18807		'GRAY CO	1	36.0 63.0	-0.00449	-0.18358	-
EPL ERE	'CLIFTON GENERATOR' 'GETTY'	1	48.3 35.0	-0.18807 -0.00695		'A. M. MUL	3	40.0	-0.00814 0.04379	-0.17993 -0.05074	
ERE	'GETTY'	1	35.0	-0.00695		TECUMSE	1	68.0	0.04379	-0.05074	
'ERE	'GETTY'	1	35.0	-0.00695		JEFFREY	1	470.0	0.03519	-0.03074	
'ERE	'GETTY'	1	35.0	-0.00695		JEFFREY	1	470.0	0.03553	-0.04214	
ERE	'GETTY'	1	35.0	-0.00695		'JEFFREY	1	470.0	0.03553	-0.04248	
'ERE	'GILL ENERGY CENTER UNIT 1'	1	44.0	0.00425		TECUMSE	1	40.0	0.04379	-0.03954	
'ERE	'GILL ENERGY CENTER UNIT 2'	1	74.0	0.00425		TECUMSE	1	40.0	0.04379	-0.03954	
'ERE	'GILL ENERGY CENTER UNIT 3'	1	112.0		WERE	TECUMSE	1	40.0	0.04379	-0.03949	.
'ERE	'GILL ENERGY CENTER UNIT 3'	1	112.0		WERE	TECUMSE	1	68.0	0.04379	-0.03949	
'ERE	'GILL ENERGY CENTER UNIT 1'	1	44.0	0.00425		TECUMSE	1	68.0	0.04379	-0.03954	
'ERE	'GILL ENERGY CENTER UNIT 2'	1	74.0	0.00425		TECUMSE	1	68.0	0.04379	-0.03954	
'ERE	'NEOSHO ENERGY CENTER UNIT 3'	1	67.0	0.00553		TECUMSE	1	40.0	0.04379	-0.03826	
'ERE	'EVANS ENERGY CENTER GAS TURBINE 3'	1	154.0	0.00574	WERE	'TECUMSE	1	40.0	0.04379	-0.03805	
'ERE	'EVANS ENERGY CENTER GAS TURBINE 1'	1	80.0	0.00574	WERE	'TECUMSE	1	40.0	0.04379	-0.03805	
'ERE	'EVANS ENERGY CENTER UNIT 2'	1	26.2	0.00575	WERE	'TECUMSE	1	40.0	0.04379	-0.03804	
'ERE	'EVANS ENERGY CENTER GAS TURBINE 2'	1	80.0	0.00574	WERE	'TECUMSE	1	40.0	0.04379	-0.03805	
'ERE	'EVANS ENERGY CENTER UNIT 1'	1	151.0	0.00575	WERE	'TECUMSE	1	40.0	0.04379	-0.03804	
ERE	'EVANS ENERGY CENTER UNIT 2'	1	26.2	0.00575	WERE	TECUMSE	1	68.0	0.04379	-0.03804	
'ERE	'NEOSHO ENERGY CENTER UNIT 3'	1	67.0	0.00553		TECUMSE	1	68.0	0.04379	-0.03826	
'ERE	'EVANS ENERGY CENTER UNIT 1'	1	151.0	0.00575		TECUMSE	1	68.0	0.04379	-0.03804	
'ERE	'EVANS ENERGY CENTER GAS TURBINE 1'	1	80.0	0.00574		TECUMSE	1	68.0	0.04379	-0.03805	
'ERE	'EVANS ENERGY CENTER GAS TURBINE 2'	1	80.0	0.00574		TECUMSE	1	68.0	0.04379	-0.03805	
'ERE	'EVANS ENERGY CENTER GAS TURBINE 3'	1	154.0	0.00574		'TECUMSE	1	68.0	0.04379	-0.03805	
ERE	'GETTY'	1	35.0	-0.00695		LAWREN	1	25.0	0.02842	-0.03537	
ERE	'GETTY'	1	35.0	-0.00695		LAWREN	1	60.0	0.02847	-0.03542	
ERE	'GETTY'	1	35.0	-0.00695		LAWREN	1	229.0	0.02873	-0.03568	
'ERE	'GILL ENERGY CENTER UNIT 2'	1	74.0	0.00425		'JEFFREY	1	470.0	0.03553	-0.03128	
ERE E	'GILL ENERGY CENTER UNIT 3'	1	112.0		WERE	'JEFFREY	1	470.0	0.03553	-0.03123	<u> </u>
ERE ERE	GILL ENERGY CENTER UNIT 1'	1	44.0 74.0	0.00425		JEFFREY	1	470.0 470.0	0.03553	-0.03128 -0.03128	-
ERE ERE	GILL ENERGY CENTER UNIT 2'	1	74.0 44.0	0.00425		JEFFREY	1	470.0 470.0	0.03553		-
'ERE 'ERE	GILL ENERGY CENTER UNIT 1' GILL ENERGY CENTER UNIT 3'	1	112.0	0.00425	WERE	'JEFFREY 'JEFFREY	1	470.0	0.03553 0.03553	-0.03128 -0.03123	
ERE	GILL ENERGY CENTER UNIT 3	1	112.0		WERE	'JEFFREY	1	470.0	0.03553	-0.03123	
ERE	GILL ENERGY CENTER UNIT 3	1	74.0	0.0043		JEFFREY	1	470.0	0.03519	-0.03089	
ERE	'GILL ENERGY CENTER UNIT 1'	1	44.0	0.00425		'JEFFREY	1	470.0	0.03519	-0.03094	
ERE	'HUTCHINSON ENERGY CENTER GAS TURBINE 2'	1	50.0	0.00423		TECUMSE	1	40.0	0.03319	-0.03094	
ERE	'HUTCHINSON ENERGY CENTER UNIT 4'	1	71.0	0.01203		TECUMSE	1	40.0	0.04379	-0.03077	
ERE	'HUTCHINSON ENERGY CENTER GAS TRUBINE 4'	1	78.0	0.01302		TECUMSE	1	40.0	0.04379	-0.03077	
ERE	'HUTCHINSON ENERGY CENTER GAS TURBINE 1'	1	52.0	0.01297		TECUMSE	1	40.0	0.04379	-0.03082	
ERE	'HUTCHINSON ENERGY CENTER GAS TURBINE 3'	1	52.0	0.01302		TECUMSE	1	40.0	0.04379	-0.03077	
ERE	'HUTCHINSON ENERGY CENTER UNIT 3'	1	31.0	0.01297	WERE	TECUMSE	1	40.0	0.04379	-0.03082	
ERE	'HUTCHINSON ENERGY CENTER UNIT 4'	1	71.0	0.01302		TECUMSE	1	68.0	0.04379	-0.03077	
ERE	'HUTCHINSON ENERGY CENTER GAS TURBINE 1'	1	52.0	0.01297		TECUMSE	1	68.0	0.04379	-0.03082	
ERE	'HUTCHINSON ENERGY CENTER GAS TURBINE 2'	1	50.0	0.01299		TECUMSE	1	68.0	0.04379	-0.0308	
ERE	'HUTCHINSON ENERGY CENTER UNIT 3'	1	31.0	0.01297		'TECUMSE	1	68.0	0.04379	-0.03082	
ERE	'HUTCHINSON ENERGY CENTER GAS TURBINE 3'	1	52.0	0.01302	WERE	'TECUMSE	1	68.0	0.04379	-0.03077	
ERE	'HUTCHINSON ENERGY CENTER GAS TRUBINE 4'	1	78.0	0.01302	WERE	'TECUMSE	1	68.0	0.04379	-0.03077	
'ERE	'NEOSHO ENERGY CENTER UNIT 3'	1	67.0	0.00553	WERE	'JEFFREY	1	470.0	0.03553	-0.03	
ERE	'NEOSHO ENERGY CENTER UNIT 3'	- 1	67.0	0.00553	WERE	'JEFFREY	1	470.0	0.03553	-0.03	

 $\underline{\textbf{Table 6}} \text{ - Potential Redispatch Relief Pairs to Prevent Deferral of Service}$

CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1
CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1
To->From
IATAN - ST JOE 345KV CKT 1
57152571651579825919913106FA
6/1/06-10/1/06 Upgrade: Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed:

Reservation	Relief Amount	Aggregate Relief Amount
974660	2.0	2.1
974976	0.1	2.1

974660	2.0	2.1									
974976	0.1	2.1									
			Maximum		Sink			Maximum			Redispatch
			Increment		Control			Decrement			Amount
Source Control Area	Source	Source Id	(MW)	GSF	Area	Sink	Sink Id	(MW)	GSF	Factor	(MW)
WEPL	CLIFTON GENERATOR	1	70.0	-0.09747	WEPL	A. M. MUL	3	14.2	0.00871	-0.10618	3 20
WEPL	CLIFTON GENERATOR	1	70.0	-0.09747	WEPL	JUDSON L	4	52.9	0.00337	-0.10084	
WEPL	CLIFTON GENERATOR	1	70.0	-0.09747	WEPL	GRAY CO	1	96.0	0.00336	-0.10083	3 21
WERE	GETTY	1	35.0	-0.00293	WERE	TECUMSE	1	40.0	0.04918	-0.05211	41
WERE	GETTY	1	35.0	-0.00293		TECUMSE	1	48.0	0.04918	-0.05211	41
WERE	GETTY	1	35.0	-0.00293	WERE	JEFFREY	1	470.0	0.04072	-0.04365	49
WERE	GETTY	1	35.0	-0.00293	WERE	JEFFREY	1	470.0	0.04072	-0.04365	
WERE	GETTY	1	35.0	-0.00293		JEFFREY	1	470.0	0.03783	-0.04076	
WERE	GILL ENERGY CENTER UNIT 1	1	44.0	0.00815		TECUMSE	1	40.0	0.04918	-0.04103	
WERE	GILL ENERGY CENTER UNIT 2	1	74.0	0.00815		TECUMSE	1	40.0	0.04918	-0.04103	52
WERE	GILL ENERGY CENTER UNIT 3	1	112.0			TECUMSE	1	40.0	0.04918	-0.04093	52
WERE	NEOSHO ENERGY CENTER UNIT 3	1	67.0	0.00822		TECUMSE	1	40.0	0.04918	-0.04096	
WERE	GILL ENERGY CENTER UNIT 4	1	106.0	0.00828		TECUMSE	1	40.0	0.04918	-0.0409	
WERE	NEOSHO ENERGY CENTER UNIT 3	1	67.0	0.00822	WERE	TECUMSE	1	48.0	0.04918	-0.04096	52
WERE	GILL ENERGY CENTER UNIT 2	1	74.0	0.00815		TECUMSE	1	48.0	0.04918	-0.04103	
WERE	GILL ENERGY CENTER UNIT 3	1	112.0	0.00825	WERE	TECUMSE	1	48.0	0.04918	-0.04093	52
WERE	GILL ENERGY CENTER UNIT 4	1	106.0	0.00828	WERE	TECUMSE	1	48.0	0.04918	-0.0409	52
WERE	GILL ENERGY CENTER UNIT 1	1	44.0	0.00815		TECUMSE	1	48.0	0.04918	-0.04103	
WERE	EVANS ENERGY CENTER GAS TURBINE 3	+ i	154.0	0.00953	WERE	TECUMSE	1	40.0	0.04918	-0.03965	5 53
WERE	EVANS ENERGY CENTER GAS TURBINE 2	1	80.0	0.00953		TECUMSE	1	40.0	0.04918	-0.03965	
WERE	EVANS ENERGY CENTER GAS TURBINE 1	1	80.0	0.00953		TECUMSE	1	40.0	0.04918	-0.03965	5 53
WERE	EVANS ENERGY CENTER GAS TURBINE 3	1	154.0		WERE	TECUMSE	1	48.0	0.04918	-0.03965	5 53
WERE	EVANS ENERGY CENTER GAS TURBINE 2	+ 1	80.0	0.00953		TECUMSE	1	48.0	0.04918	-0.03965	5 53
WERE	EVANS ENERGY CENTER GAS TURBINE 1	1	80.0			TECUMSE	1	48.0	0.04918	-0.03965	5 53
WERE	EVANS ENERGY CENTER UNIT 1	1	151.0	0.00954		TECUMSE	1	40.0	0.04918	-0.03964	54
WERE	EVANS ENERGY CENTER UNIT 2	+ 1	202.3	0.00954		TECUMSE	1	40.0	0.04918	-0.03964	54
WERE	EVANS ENERGY CENTER UNIT 2	1	202.3	0.00954	WERE	TECUMSE	1	48.0	0.04918	-0.03964	54
WERE	EVANS ENERGY CENTER UNIT 1	1	151.0	0.00954	WERE	TECUMSE	1	48.0	0.04918	-0.03964	
WERE	GETTY	1	35.0	-0.00334		LAWRENC	1	25.0	0.03443	-0.0330	
WERE	GETTY	1	35.0	-0.00293	WERE	LAWRENC	1	60.0	0.03443	-0.03744	
WERE	GETTY	1	35.0	-0.00293		LAWRENC	1	226.8	0.03431	-0.03741	57
WERE	NEOSHO ENERGY CENTER UNIT 3	1	67.0	0.00233	WERE	JEFFREY	1	470.0	0.03428	-0.0372	65
WERE	GILL ENERGY CENTER UNIT 1	1	44.0	0.00822		JEFFREY	1	470.0	0.04072	-0.03257	65
WERE	GILL ENERGY CENTER UNIT 2	+ +	74.0	0.00815		JEFFREY	1	470.0	0.04072	-0.03257	65
WERE	GILL ENERGY CENTER UNIT 4	1	106.0	0.00818	WERE	JEFFREY	1	470.0	0.04072	-0.03244	
WERE	GILL ENERGY CENTER UNIT 3	+ 1	112.0	0.00825	WERE	JEFFREY	1	470.0	0.04072	-0.03247	65
WERE	GILL ENERGY CENTER UNIT 2	1	74.0			JEFFREY	1	470.0	0.04072	-0.03247	65
WERE	GILL ENERGY CENTER UNIT 1	1	44.0	0.00815	WERE	JEFFREY	1	470.0	0.04072	-0.03257	65
WERE	GILL ENERGY CENTER UNIT 3	+ 1	112.0	0.00815	WERE	JEFFREY	1	470.0	0.04072	-0.03237	65
WERE	NEOSHO ENERGY CENTER UNIT 3	1	67.0	0.00823	WERE	JEFFREY	1	470.0	0.04072	-0.03247	65
WERE	GILL ENERGY CENTER UNIT 4	1	106.0	0.00828		JEFFREY	1	470.0	0.04072	-0.0324	
WERE	EVANS ENERGY CENTER GAS TURBINE 2	+ +	80.0	0.00828		JEFFREY	1	470.0	0.04072	-0.03242	
WERE	EVANS ENERGY CENTER UNIT 1	+ +	151.0	0.00953		JEFFREY	1	470.0	0.04072	-0.03118	
WERE	EVANS ENERGY CENTER UNIT 1 EVANS ENERGY CENTER GAS TURBINE 3	1	151.0	0.00954		JEFFREY	1	470.0	0.04072	-0.03116	
WERE	EVANS ENERGY CENTER GAS TURBINE 3 EVANS ENERGY CENTER UNIT 2	1	202.3	0.00953	WERE	JEFFREY	1	470.0	0.04072	-0.03118	
WERE	EVANS ENERGY CENTER UNIT 2 EVANS ENERGY CENTER GAS TURBINE 1		80.0	0.00954		JEFFREY		470.0	0.04072	-0.03118	
WERE	EVANS ENERGY CENTER GAS TURBINE 1 EVANS ENERGY CENTER GAS TURBINE 2	1 1	80.0	0.00953		JEFFREY	1	470.0 470.0	0.04072	-0.03119	
		1	80.0	0.00953			1	470.0 470.0	0.04072		
WERE	EVANS ENERGY CENTER GAS TURBINE 1				WERE	JEFFREY				-0.03119	
WERE WERE	EVANS ENERGY CENTER GAS TURBINE 3 EVANS ENERGY CENTER UNIT 1	1 1	154.0 151.0	0.00953		JEFFREY	1	470.0 470.0	0.04072	-0.03118	
				0.00954		JEFFREY		470.0 470.0			68
WERE	EVANS ENERGY CENTER UNIT 2 Iaximum Increment were determine from the Souce are	1	202.3	0.00954		JEFFREY	1		0.04072	-0.03118	68

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

<u>Table 6</u> - Potential Redispatch Relief Pairs to Prevent Deferral of Service

Upgrade: Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1 MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1 To->From

GRD OAK - PLEASANT HILL 345KV CKT 1 59210592591591985920011106SP 6/1/06-10/1/06

		Aggregate									
_		Relief									
Reservation	Relief Amount	Amount	_								
977015 or 977018	1.2	1.2	Mandania		C:-I-			I Manufacture			TD-dit-b
			Maximum Increment		Sink			Maximum Decrement			Redispatch Amount
Course Control Area	Course	Course Id		GSF	Control Area	Cink	Cial Id		GSF	Footor	
Source Control Area	Source TWA#1	Source Id	(MW)			Sink	Sink Id	(MW)		Factor	(MW)
MIPU		3	14.6 20.1	-0.02373 -0.03203		SHARPR#	1	105.0 105.0	0.38754 0.38754	-0.41127 -0.41957	7 3
MIPU	SIBLEY GENERATING UNIT #3 ARIES COMBUSTION TURBINE #2					SHARPR#			0.38754	-0.41957	
MIPU MIPU	ARIES COMBUSTION TURBINE #2	1 1	165.0	-0.04243 -0.04243		SHARPR#	1 1	105.0 105.0	0.38754	-0.42997	
MIPU	LAKE ROAD	1	21.0 135.0	-0.04243		SHARPR#	1	105.0	0.38754		
MIPU	TWA#2	1	17.5	-0.01533		SHARPR#	1	105.0	0.38754	-0.40287 -0.41127	
MIPU	GREENWOOD GENERATING UNIT #3	3	62.3	-0.02373		SHARPR#	1	105.0	0.38754	-0.41127	
MIPU	NEVADA GENERATING UNIT #1	1	20.3	-0.04535		SHARPR#	1	105.0	0.38754	-0.43269	
MIPU	GREENWOOD GENERATING UNIT #2	2	64.0	-0.00986		SHARPR#	1	105.0	0.38754	-0.43289	
MIPU	ARIES STEAM TURBINE	1	265.0	-0.04333		SHARPR#	1	105.0	0.38754	-0.43203	
MIPU	GREENWOOD GENERATING UNIT #1	1	63.8	-0.04243		SHARPR#	- i	105.0	0.38754	-0.43289	9 3
MIPU	LAKE ROAD	1	135.0	-0.04533		SHARPR#	2	105.0	0.38754	-0.40287	
MIPU	ARIES COMBUSTION TURBINE #2	1	165.0	-0.01333		SHARPR#	2	105.0	0.38754	-0.40207	
MIPU	ARIES STEAM TURBINE	1	265.0	-0.04243		SHARPR#	2	105.0	0.38754	-0.42997	
MIPU	TWA#2	1	17.5	-0.04243		SHARPR#	2	105.0	0.38754	-0.42337	
MIPU	TWA#1	1	14.6	-0.02373		SHARPR#	2	105.0	0.38754	-0.41127	
MIPU	NEVADA GENERATING UNIT #1	1	20.3	-0.00986		SHARPR#	2	105.0	0.38754	-0.3974	
MIPU	GREENWOOD GENERATING UNIT #3	3	62.3	-0.04535		SHARPR#	2	105.0	0.38754	-0.43289	
MIPU	GREENWOOD GENERATING UNIT #2	2	64.0	-0.04535		SHARPR#	2	105.0	0.38754	-0.43289	
MIPU	GREENWOOD GENERATING UNIT #1	1	63.8	-0.04535		SHARPR#	2	105.0	0.38754	-0.43289	
MIPU	SIBLEY GENERATING UNIT #3	3	20.1	-0.03203		SHARPR#	2	105.0	0.38754	-0.41957	7 3
MIPU	ARIES COMBUSTION TURBINE #1	1	21.0	-0.04243		SHARPR#	2	105.0	0.38754	-0.42997	
MIPU	SIBLEY GENERATING UNIT #3	3	20.1	-0.03203		SHARPR#	3	105.0	0.38754	-0.41957	
MIPU	GREENWOOD GENERATING UNIT #1	1	63.8	-0.04535		SHARPR#	3	105.0	0.38754	-0.43289	
MIPU	GREENWOOD GENERATING UNIT #2	2	64.0	-0.04535		SHARPR#	3	105.0	0.38754	-0.43289	
MIPU	GREENWOOD GENERATING UNIT #3	3	62.3	-0.04535		SHARPR#	3	105.0	0.38754	-0.43289	
MIPU	NEVADA GENERATING UNIT #1	1	20.3	-0.00986		SHARPR#	3	105.0	0.38754	-0.3974	
MIPU	TWA#1	1	14.6	-0.02373	MIPU	SHARPR#	3	105.0	0.38754	-0.41127	7 3
MIPU	TWA#2	1	17.5	-0.02373	MIPU	SHARPR#	3	105.0	0.38754	-0.41127	
MIPU	ARIES STEAM TURBINE	1	265.0	-0.04243	MIPU	SHARPR#	3	105.0	0.38754	-0.42997	7 3
MIPU	ARIES COMBUSTION TURBINE #1	1	21.0	-0.04243	MIPU	SHARPR#	3	105.0	0.38754	-0.42997	3
MIPU	LAKE ROAD	1	135.0	-0.01533	MIPU	SHARPR#	3	105.0	0.38754	-0.40287	7 3
MIPU	ARIES COMBUSTION TURBINE #2	1	165.0	-0.04243	MIPU	SHARPR#	3	105.0	0.38754	-0.42997	7 3
MIPU	RALPH GREEN GENERATING UNIT #3	3	73.7	0.07663	MIPU	SHARPR#	1	105.0	0.38754	-0.31091	4
MIPU	RALPH GREEN GENERATING UNIT #3	3	73.7	0.07663	MIPU	SHARPR#	2	105.0	0.38754	-0.31091	4
MIPU	RALPH GREEN GENERATING UNIT #3	3	73.7	0.07663		SHARPR#	3	105.0	0.38754	-0.31091	
KACP	NORTHEAST CT #11	1	26.0	-0.02844		LACYGNE	1	469.1	0.03976	-0.0682	
KACP	NORTHEAST COMBUSTINE TURBINES NORTH	1	25.0	-0.02844		LACYGNE	1	469.1	0.03976	-0.0682	17
KACP	NORTHEAST CT #18	1	58.0	-0.02844		LACYGNE	1	469.1	0.03976	-0.0682	
KACP	NORTHEAST CT #15	1	58.0	-0.02844		LACYGNE	1	469.1	0.03976	-0.0682	17
KACP	NORTHEAST CT #14	1	58.0	-0.02844		LACYGNE	1	469.1	0.03976	-0.0682	17
KACP	NORTHEAST CT #16	1	58.0	-0.02844		LACYGNE	1	469.1	0.03976	-0.0682	
KACP	NORTHEAST CT #13	1	26.0	-0.02844		LACYGNE	1	469.1	0.03976	-0.0682	
KACP	NORTHEAST CT #17	1	59.0	-0.02844		LACYGNE	1	469.1	0.03976	-0.0682	
KACP	GRAND AVENUE COMBUSTINE TURBINES	7	33.0	-0.02807		LACYGNE	11	469.1	0.03976	-0.06783	17
KACP	GRAND AVENUE COMBUSTINE TURBINES	9	32.0	-0.02807		LACYGNE	1	469.1	0.03976	-0.06783	
KACP	NORTHEAST CT #18	1	58.0	-0.02844		LACYGNE	2	469.1	0.03976	-0.0682	
KACP	NORTHEAST CT #14	1	58.0	-0.02844		LACYGNE	2	469.1	0.03976	-0.0682	
KACP	NORTHEAST COMBUSTINE TURBINES NORTH	1	25.0	-0.02844		LACYGNE	2	469.1	0.03976	-0.0682	
KACP	NORTHEAST CT #16	1	58.0	-0.02844		LACYGNE	2	469.1	0.03976	-0.0682	17
KACP	NORTHEAST CT #11	1	26.0	-0.02844		LACYGNE	2	469.1	0.03976	-0.0682	
KACP	NORTHEAST CT #13	1	26.0	-0.02844		LACYGNE	2	469.1	0.03976	-0.0682	
KACP	GRAND AVENUE COMBUSTINE TURBINES	7	33.0	-0.02807		LACYGNE	2	469.1	0.03976	-0.06783	
KACP	NORTHEAST CT #15	1	58.0 59.0	-0.02844		LACYGNE	2	469.1	0.03976	-0.0682	
KACP	NORTHEAST CT #17	1 1	59.0	-0.02844	KACP	LACYGNE	2	469.1	0.03976	-0.0682	. 17

-0.02807 KACF

ACYGNE ACYGNE ACYGNE ACYGNE

GARDNER
GREENWOOD GENERATING UNIT #3
GREENWOOD GENERATING UNIT #2
GREENWOOD GENERATING UNIT #1 MIPU -0.04535 MIPU LAKE ROA Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models whether Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

GRAND AVENUE COMBUSTINE TURBINES

MONTROSE UNIT #3 MONTROSE UNIT #3 GARDNER

469.1

0.03976

-0.06783 -0.0596 -0.0596 -0.04599 -0.04599 17 17

$\underline{\textbf{Table 6}} \text{ - Potential Redispatch Relief Pairs to Prevent Deferral of Service}$

WEST GARDNER (WGARD 11) 345/161/13.8KV TRANSFORMER CKT 11
WEST GARDNER (WGARD 11) 345/161/13.8KV TRANSFORMER CKT 11
From->To
CRAIG - WEST GARDNER 345KV CKT 1
WGAARD 1127511579775796513106SH
6/1/06-10/1/06

Upgrade: Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed:

		Aggregate Relief									
Reservation	Relief Amount	Amount									
977013	0.4	0.4	Maximum		Sink			Maximum		1	Redisp
	-		Increment		Control		.	Decrement			Amou
Source Control Area	Source	Source Id	(MW)	GSF	Area	Sink	Sink Id	(MW)	GSF	Factor	(MV
ACP ACP	GARDNER BULL CREEK COMBUSTION TURBINE #1	1 1	11.0 77.0	-0.29278 -0.35621	KACP KACP	LACYGNE LACYGNE	1	469.0 469.0	0.12689 0.12689	-0.41967 -0.4831	
ACP	BULL CREEK COMBUSTION TURBINE #3	3	77.0	-0.35621	KACP	LACYGNE	1	469.0	0.12689	-0.4831	
ACP	BULL CREEK COMBUSTION TURBINE #2	2	77.0	-0.35621	KACP	LACYGNE	1	469.0	0.12689	-0.4831	
ACP	BULL CREEK CT #4	4	77.0	-0.35621	KACP	LACYGNE	1	469.0	0.12689	-0.4831	
ACP ACP	BULL CREEK COMBUSTION TURBINE #2	2	77.0	-0.35621	KACP	LACYGNE	2	469.0	0.12689	-0.4831	
ACP ACP	BULL CREEK CT #4 BULL CREEK COMBUSTION TURBINE #3	3	77.0 77.0	-0.35621 -0.35621	KACP KACP	LACYGNE LACYGNE	2	469.0 469.0	0.12689 0.12689	-0.4831 -0.4831	
ACP	BULL CREEK COMBUSTION TURBINE #1	1	77.0	-0.35621	KACP	LACYGNE	2	469.0	0.12689	-0.4831	
ACP	GARDNER	1	11.0	-0.29278	KACP	LACYGNE	2	469.0	0.12689	-0.41967	
ACP	BULL CREEK COMBUSTION TURBINE #1	1	77.0	-0.35621	KACP	MONTROS	1	127.0	-0.03342	-0.32279	
ACP	BULL CREEK COMBUSTION TURBINE #2 BULL CREEK COMBUSTION TURBINE #3	2	77.0	-0.35621	KACP	MONTROS	1	127.0	-0.03342	-0.32279	
ACP ACP	BULL CREEK CT #4	3	77.0 77.0	-0.35621 -0.35621	KACP KACP	MONTROS MONTROS	1	127.0 127.0	-0.03342 -0.03342	-0.32279 -0.32279	
ACP	BULL CREEK CT #4	4	77.0	-0.35621	KACP	MONTROS	2	121.0	-0.03342	-0.32279	
ACP	BULL CREEK COMBUSTION TURBINE #2	2	77.0	-0.35621	KACP	MONTROS	2	121.0	-0.03342	-0.32279	
ACP	BULL CREEK COMBUSTION TURBINE #1	1	77.0	-0.35621	KACP	MONTROS	2	121.0	-0.03342	-0.32279	
ACP	BULL CREEK COMBUSTION TURBINE #3	3	77.0	-0.35621	KACP	MONTROS	2	121.0	-0.03342	-0.32279	
ACP ACP	BULL CREEK COMBUSTION TURBINE #2 BULL CREEK CT #4	4	77.0 77.0	-0.35621 -0.35621	KACP	MONTROS MONTROS	3	127.8 127.8	-0.03342 -0.03342	-0.32279 -0.32279	
ACP	BULL CREEK COMBUSTION TURBINE #3	3	77.0	-0.35621	KACP KACP	MONTROS	3	127.8	-0.03342	-0.32279	
ACP	BULL CREEK COMBUSTION TURBINE #1	1	77.0	-0.35621	KACP	MONTROS	3	127.8	-0.03342	-0.32279	
ACP	BULL CREEK CT #4	4	77.0	-0.35621	KACP	HAWTHOR	5	457.0	-0.05558	-0.30063	
ACP	BULL CREEK COMBUSTION TURBINE #1	1	77.0	-0.35621	KACP	HAWTHOR	5	457.0	-0.05558	-0.30063	
ACP	BULL CREEK COMBUSTION TURBINE #3	3	77.0	-0.35621	KACP	HAWTHOR	5	457.0	-0.05558	-0.30063	<u> </u>
ACP ACP	BULL CREEK COMBUSTION TURBINE #2 BULL CREEK COMBUSTION TURBINE #1	1	77.0 77.0	-0.35621 -0.35621	KACP KACP	HAWTHOR IATAN UN	5 1	457.0 390.0	-0.05558 -0.05979	-0.30063 -0.29642	
ACP	BULL CREEK COMBUSTION TURBINE #3	3	77.0	-0.35621	KACP	IATAN UN	1	390.0	-0.05979	-0.29642	<u> </u>
ACP	BULL CREEK CT #4	4	77.0	-0.35621	KACP	IATAN UN	1	390.0	-0.05979	-0.29642	
ACP	BULL CREEK COMBUSTION TURBINE #2	2	77.0	-0.35621	KACP	IATAN UN	1	390.0	-0.05979	-0.29642	
ACP	BULL CREEK COMBUSTION TURBINE #3	3	77.0	-0.35621	KACP	HAWTHOR	6	92.0	-0.05558	-0.30063	
ACP ACP	BULL CREEK COMBUSTION TURBINE #2 BULL CREEK CT #4	4	77.0 77.0	-0.35621 -0.35621	KACP	HAWTHOR HAWTHOR	6	92.0 92.0	-0.05558 -0.05558	-0.30063 -0.30063	
ACP	BULL CREEK COMBUSTION TURBINE #1	1	77.0	-0.35621	KACP	HAWTHOR	6	92.0	-0.05558	-0.30063	
ACP	BULL CREEK COMBUSTION TURBINE #2	2	77.0	-0.35621	KACP	HAWTHOR	7	45.6	-0.0561	-0.30011	
ACP	BULL CREEK COMBUSTION TURBINE #1	1	77.0	-0.35621	KACP	HAWTHOR	7	45.6	-0.0561	-0.30011	
ACP	BULL CREEK CT #4	4	77.0	-0.35621	KACP	HAWTHOR	7	45.6	-0.0561	-0.30011	
ACP ACP	BULL CREEK COMBUSTION TURBINE #3	3	77.0 77.0	-0.35621	KACP	HAWTHOR HAWTHOR	9	45.6	-0.0561	-0.30011	
ACP ACP	BULL CREEK COMBUSTION TURBINE #2 BULL CREEK CT #4	4	77.0	-0.35621 -0.35621	KACP KACP	HAWTHOR	9	68.0 68.0	-0.05558 -0.05558	-0.30063 -0.30063	
ACP	BULL CREEK COMBUSTION TURBINE #3	3	77.0	-0.35621	KACP	HAWTHOR	9	68.0	-0.05558	-0.30063	
ACP	BULL CREEK COMBUSTION TURBINE #1	1	77.0	-0.35621	KACP	HAWTHOR	9	68.0	-0.05558	-0.30063	
ACP	GARDNER	1	11.0	-0.29278	KACP	MONTROS	1	127.0	-0.03342	-0.25936	
ACP ACP	GARDNER GARDNER	1	11.0 11.0	-0.29278	KACP KACP	MONTROS MONTROS	2	121.0 127.8	-0.03342 -0.03342	-0.25936	
ACP	GARDNER	1 1	11.0	-0.29278 -0.29278	KACP	HAWTHOR	3 5	457.0	-0.05558	-0.25936 -0.2372	
ACP	GARDNER	1	11.0	-0.29278	KACP	IATAN UN	1	390.0	-0.05979	-0.23299	
ACP	GARDNER	1	11.0	-0.29278	KACP	HAWTHOR	6	92.0	-0.05558	-0.2372	
ACP	GARDNER	1	11.0	-0.29278	KACP	HAWTHOR	7	45.6	-0.0561	-0.23668	
ACP	GARDNER PAOLA COMBUSTION TURBINES	1	11.0	-0.29278	KACP	HAWTHOR	9	68.0	-0.05558	-0.2372	
ACP ACP	PAOLA COMBUSTION TURBINES PAOLA COMBUSTION TURBINES	1	77.0 77.0	-0.10209 -0.10209	KACP	LACYGNE LACYGNE	2	469.0 469.0	0.12689 0.12689	-0.22898 -0.22898	
ACP	NORTHEAST COMBUSTINE TURBINES NORTH	1	55.0	-0.06295	KACP	LACYGNE	1	469.0	0.12689	-0.18984	
ACP	NORTHEAST CT #11	1	56.0	-0.06295	KACP	LACYGNE	1	469.0	0.12689	-0.18984	
ACP	NORTHEAST CT #14	1	58.0	-0.06295	KACP	LACYGNE	1	469.0	0.12689	-0.18984	
ACP	NORTHEAST CT #18	1	58.0	-0.06295	KACP	LACYGNE	1	469.0	0.12689	-0.18984	
ACP ACP	NORTHEAST CT #15	1	59.0	-0.06295 -0.06295	KACP	LACYGNE	1	469.0 469.0	0.12689	-0.18984	
ACP	NORTHEAST CT #15 NORTHEAST CT #13	1	58.0 56.0	-0.06295	KACP KACP	LACYGNE LACYGNE	1	469.0	0.12689 0.12689	-0.18984 -0.18984	
ACP	GRAND AVENUE COMBUSTINE TURBINES	9	32.0	-0.06471	KACP	LACYGNE	1	469.0	0.12689	-0.1916	
ACP	GRAND AVENUE COMBUSTINE TURBINES	7	33.0	-0.06471	KACP	LACYGNE	1	469.0	0.12689	-0.1916	
ACP	NORTHEAST CT #16	1	58.0	-0.06295	KACP	LACYGNE	1	469.0	0.12689	-0.18984	
ACP ACP	NORTHEAST COMBUSTINE TURBINES NORTH NORTHEAST CT #11	1	55.0 56.0	-0.06295 -0.06295	KACP	LACYGNE LACYGNE	2	469.0 469.0	0.12689 0.12689	-0.18984 -0.18984	
ACP	NORTHEAST CT #17	1	56.0 59.0	-0.06295	KACP	LACYGNE	2	469.0	0.12689	-0.18984	
ACP	NORTHEAST CT #16	1	58.0	-0.06295	KACP	LACYGNE	2	469.0	0.12689	-0.18984	
ACP	NORTHEAST CT #15	1	58.0	-0.06295	KACP	LACYGNE	2	469.0	0.12689	-0.18984	
ACP	NORTHEAST CT #13	1	56.0	-0.06295		LACYGNE	2	469.0			
ACP ACP	NORTHEAST CT #18 GRAND AVENUE COMBUSTINE TURBINES	9	58.0 32.0	-0.06295 -0.06471		LACYGNE	2	469.0 469.0	0.12689 0.12689		<u> </u>
ACP ACP	GRAND AVENUE COMBUSTINE TURBINES GRAND AVENUE COMBUSTINE TURBINES	7	32.0			LACYGNE LACYGNE	2	469.0	0.12689		
ACP	NORTHEAST CT #14	1	58.0	-0.06295	KACP	LACYGNE	2	469.0	0.12689		<u> </u>
ACP	HAWTHORN COMBUSTION TURBINE #8	8	77.0	-0.0561	KACP	LACYGNE	1	469.0	0.12689	-0.18299	
ACP	HAWTHORN COMBUSTION TURBINE #7	7	31.4		KACP	LACYGNE	1	469.0	0.12689		
ACP	HAWTHORN COMBUSTION TURBINE #8	8	77.0		KACP	LACYGNE	2	469.0	0.12689		
ACP	HAWTHORN COMBUSTION TURBINE #7	7	31.4		KACP	LACYGNE	2	469.0	0.12689		
ACP ACP	CITY OF HIGGINSVILLE CITY OF HIGGINSVILLE	1	36.0 36.0	-0.02902 -0.02902		LACYGNE LACYGNE	2	469.0 469.0	0.12689 0.12689		
/ERE	LAWRENCE ENERGY CENTER UNIT 4	1	19.0	-0.02902		GILL ENER	1	77.0	0.12689		
ERE	LAWRENCE ENERGY CENTER UNIT 4	1	19.0	-0.03741		WACO	1	18.0	0.04218		
/ERE	LAWRENCE ENERGY CENTER UNIT 4	1	19.0	-0.03741	WERE	EVANS EN	1	303.8	0.04137	-0.07878	
'ERE	LAWRENCE ENERGY CENTER UNIT 5	1	41.3	-0.03158		EVANS EN	1	303.8	0.04137		
	LAWRENCE ENERGY CENTER UNIT 5	1	41.3	-0.03158	WERE	GILL ENER	1	77.0	0.04228	-0.07386	l
ERE ERE	LAWRENCE ENERGY CENTER UNIT 5	1	41.3	-0.03158	WEDE	WACO	1	18.0	0.04218	-0.07376	

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

 $\underline{\textbf{Table 6}} \text{ - Potential Redispatch Relief Pairs to Prevent Deferral of Service}$

WHITNEY 138/69/12.5KV TRANSFORMER
WHITNEY (WHITNEY1) 138/69/12.47KV TRANSFORMER CKT 1
From->To
WHITNEY (WHITNEY2) 138/69/12.47KV TRANSFORMER CKT 2
WHITNEY12421WHITTINEY242222207SP
6/107-10/107 Upgrade: Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch

Reservation 897453	Relief Amount	Aggregate Relief Amount									
		2.1	Maximum Increment	005	Sink Control	0.1	0: 1 11	Maximum Decrement	225	.	Redispatch Amount
Source Control Area AFPW	Source GRANIS	Source Id	(MW) 50.0	-0.00866	Area AEPW	Sink EASTMAN	Sink Id	(MW) 178.5	GSF 0.06618	-0.07484	(MW)
AEPW	GRANIS	1	50.0	-0.00866	AEPW	EASTMAN	1	178.5	0.06618	-0.07484	2
AEPW AEPW	GRANIS WILKES #2	1	50.0 29.2	-0.00866 -0.00486		EASTMAN EASTMAN	1	28.0 178.5	0.06618 0.06618	-0.07484 -0.07104	
AEPW	WILKES #2	1	29.2	-0.00486		EASTMAN	1	178.5	0.06618	-0.07104	
AEPW	WILKES #2	1	29.2	-0.00486		EASTMAN	1	28.0	0.06618	-0.07104	
AEPW AEPW	KIOWA STEAM 1 KIOWA GAS 1	1	320.0 177.0	-0.00066 -0.00066		EASTMAN EASTMAN	1	178.5 178.5	0.06618 0.06618	-0.06684 -0.06684	
AEPW	WILKES #3	1	11.0	-0.00185	AEPW	EASTMAN	1	178.5	0.06618	-0.06803	31
AEPW AEPW	KIOWA GAS 2 KIOWA STEAM 2	1	177.0 320.0	-0.00066 -0.00066		EASTMAN EASTMAN	1	178.5 178.5	0.06618 0.06618	-0.06684 -0.06684	
AEPW	KIOWA GAS 4	1	177.0	-0.00066		EASTMAN	1	178.5	0.06618	-0.06684	
AEPW	KIOWA GAS 3	1	177.0	-0.00066		EASTMAN	1	178.5	0.06618	-0.06684	
AEPW AEPW	WILKES #3 KIOWA STEAM 1	1	11.0 320.0	-0.00185 -0.00066		EASTMAN EASTMAN	<u>1</u>	178.5 178.5	0.06618 0.06618	-0.06803	
AEPW	KIOWA GAS 3	1	177.0	-0.00066		EASTMAN	1	178.5	0.06618	-0.06684	31
AEPW AEPW	KIOWA GAS 2	1	177.0 177.0	-0.00066		EASTMAN	1 1	178.5	0.06618	-0.06684	
AEPW AEPW	KIOWA GAS 1 KIOWA GAS 4	1	177.0	-0.00066 -0.00066		EASTMAN EASTMAN	<u>1</u>	178.5 178.5	0.06618 0.06618	-0.06684 -0.06684	
AEPW	KIOWA STEAM 2	1	320.0	-0.00066	AEPW	EASTMAN	1	178.5	0.06618	-0.06684	31
AEPW AEPW	KIOWA STEAM 2 KIOWA GAS 3	1	320.0 177.0	-0.00066 -0.00066		EASTMAN EASTMAN	1	28.0 28.0	0.06618 0.06618	-0.06684 -0.06684	
AEPW AEPW	KIOWA GAS 3 KIOWA GAS 4	1	177.0	-0.00066		EASTMAN	1	28.0	0.06618	-0.06684	
AEPW	KIOWA STEAM 1	1	320.0	-0.00066	AEPW	EASTMAN	1	28.0	0.06618	-0.06684	31
AEPW AEPW	KIOWA GAS 2 KIOWA GAS 1	1	177.0 177.0	-0.00066 -0.00066		EASTMAN EASTMAN	1	28.0 28.0	0.06618 0.06618	-0.06684 -0.06684	
AEPW	WILKES #3	1	11.0	-0.00086		EASTMAN	1	28.0	0.06618	-0.06803	
AEPW	LIEBERMAN #2	1	27.0	0.00013	AEPW	EASTMAN	1	178.5	0.06618	-0.06605	32
AEPW AEPW	TULSA POWER STATION # 4 OECGT2-2	1	35.0 175.0	-0.0004 -0.00039	AEPW AEPW	EASTMAN EASTMAN	1	178.5 178.5	0.06618 0.06618	-0.06658 -0.06657	32
AEPW	OECGT2-2	1	175.0	-0.00039	AEPW	EASTMAN	1	178.5	0.06618	-0.06657	32
AEPW	LIEBERMAN #1	1	27.0	0.00013	AEPW	EASTMAN	1	178.5	0.06618	-0.06605	32
AEPW AEPW	OECSTM 2 OECGT1-2	1	255.0 175.0	-0.00039 -0.00039	AEPW AEPW	EASTMAN EASTMAN	1	178.5 178.5	0.06618 0.06618	-0.06657 -0.06657	32
AEPW	OECGT1-1	1	175.0	-0.00039	AEPW	EASTMAN	1	178.5	0.06618	-0.06657	32
AEPW	RIVERSIDE STATION #1	1	27.0	-0.00041	AEPW	EASTMAN	1	178.5	0.06618	-0.06659	
AEPW AEPW	OECSTM 1 SOUTHWESTERN STATION #1	1	36.0 16.0	-0.00039 -0.00054	AEPW AEPW	EASTMAN EASTMAN	<u>1</u>	178.5 178.5	0.06618 0.06618	-0.06657 -0.06672	32
AEPW	WELEETKA TERTIARY # 6	1	53.0	-0.0005	AEPW	EASTMAN	1	178.5	0.06618	-0.06668	32
AEPW AEPW	SOUTHWESTERN STATION #3	1	20.0 54.0	-0.00054	AEPW	EASTMAN	1	178.5	0.06618	-0.06672	
AEPW	WELEETKA TERTIARY # 5 TULSA POWER STATION # 1	1	31.0	-0.0005 -0.0004	AEPW AEPW	EASTMAN EASTMAN	1	178.5 178.5	0.06618 0.06618	-0.06668	
AEPW	WELEETKA TERTIARY # 4	1	55.0	-0.0005	AEPW	EASTMAN	1	178.5	0.06618	-0.06668	32
AEPW AEPW	COGENTRIX GAS TERTIARY # 3 COGENTRIX GAS TERTIARY # 2	G G	183.0 183.0	-0.0004 -0.0004	AEPW AEPW	EASTMAN EASTMAN	1	178.5 178.5	0.06618 0.06618	-0.06658 -0.06658	
AEPW	COGENTRIX GAS TERTIARY # 2	S	115.0	-0.0004	AEPW	EASTMAN	1	178.5	0.06618	-0.06658	
AEPW	COGENTRIX STEAM TERTIARY # 1	S	98.0	-0.0004	AEPW	EASTMAN	1	178.5	0.06618	-0.06658	
AEPW AEPW	COGENTRIX STEAM TERTIARY # 3 SOUTHWESTERN STATION #3	S 1	115.0 20.0	-0.0004 -0.00054	AEPW AEPW	EASTMAN EASTMAN	<u>1</u>	178.5 178.5	0.06618 0.06618	-0.06658 -0.06672	
AEPW	SOUTHWESTERN STATION #3	1	16.0	-0.00054	AEPW	EASTMAN	1	178.5	0.06618	-0.06672	
AEPW	RIVERSIDE STATION #1	1	27.0	-0.00041	AEPW	EASTMAN	1	178.5	0.06618	-0.06659	
AEPW AEPW	TULSA POWER STATION # 1 LIEBERMAN #2	1	31.0 27.0	-0.0004 0.00013	AEPW AEPW	EASTMAN EASTMAN	<u>1</u>	178.5 178.5	0.06618 0.06618	-0.06658 -0.06605	
AEPW	LIEBERMAN #1	1	27.0	0.00013	AEPW	EASTMAN	1	178.5	0.06618	-0.06605	32
AEPW AEPW	OECGT1-2 OECGT2-2	1	175.0 175.0	-0.00039 -0.00039	AEPW AEPW	EASTMAN EASTMAN	<u>1</u>	178.5 178.5	0.06618 0.06618	-0.06657 -0.06657	32
AEPW	OECGT2-2 OECGT2-1	1	175.0	-0.00039	AEPW	EASTMAN	1	178.5	0.06618	-0.06657	32
AEPW	OECSTM 2	1	255.0	-0.00039	AEPW	EASTMAN	1	178.5	0.06618	-0.06657	32
AEPW AEPW	TULSA POWER STATION # 4 COGENTRIX STEAM TERTIARY # 1	1 S	35.0 98.0	-0.0004 -0.0004	AEPW AEPW	EASTMAN EASTMAN	<u>1</u>	178.5 178.5	0.06618 0.06618	-0.06658 -0.06658	
AEPW	COGENTRIX GAS TERTIARY # 2	G	183.0	-0.0004	AEPW	EASTMAN	1	178.5	0.06618	-0.06658	
AEPW	OECGT1-1	1	175.0	-0.00039	AEPW	EASTMAN	1	178.5	0.06618	-0.06657	32
AEPW AEPW	WELEETKA TERTIARY # 5 OECSTM 1	1	54.0 36.0	-0.0005 -0.00039	AEPW AEPW	EASTMAN EASTMAN	1	178.5 178.5	0.06618 0.06618	-0.06668 -0.06657	32
AEPW	COGENTRIX STEAM TERTIARY # 2	S	115.0	-0.0004	AEPW	EASTMAN	1	178.5	0.06618	-0.06658	32
AEPW	WELEETKA TERTIARY # 6	1	53.0	-0.0005	A E D \ A /	EASTMAN	1	178.5	0.06618	-0.06668	
AEPW AEPW	WELEETKA TERTIARY # 4	1	115.0 55.0	-0.0004		EASTMAN	1	178.5	0.06618	-0.06658	
AEPW	COGENTRIX GAS TERTIARY # 3	G	183.0	-0.0004	AEPW	EASTMAN	1	178.5	0.06618	-0.06658	32
AEPW AEPW	COGENTRIX STEAM TERTIARY # 3 COGENTRIX GAS TERTIARY # 3	S G	115.0 183.0	-0.0004 -0.0004		EASTMAN EASTMAN	1	28.0 28.0	0.06618 0.06618	-0.06658 -0.06658	
AEPW	COGENTRIX GAS TERTIARY # 3 COGENTRIX STEAM TERTIARY # 2	S	115.0	-0.0004		EASTMAN	1	28.0	0.06618	-0.06658	
AEPW	COGENTRIX STEAM TERTIARY # 1	S	98.0	-0.0004		EASTMAN	1	28.0	0.06618	-0.06658	
AEPW AEPW	COGENTRIX GAS TERTIARY # 2 OECSTM 1	G 1	183.0 36.0	-0.0004 -0.00039		EASTMAN EASTMAN	1	28.0 28.0	0.06618	-0.06658 -0.06657	
AEPW	TULSA POWER STATION # 4	1	35.0	-0.0004	AEPW	EASTMAN	1	28.0	0.06618	-0.06658	32
AEPW	TULSA POWER STATION # 1	1	31.0	-0.0004		EASTMAN	1	28.0	0.06618	-0.06658	
AEPW AEPW	WELEETKA TERTIARY # 4 SOUTHWESTERN STATION #3	1	55.0 20.0	-0.0005 -0.00054		EASTMAN EASTMAN	1	28.0 28.0	0.06618	-0.06668 -0.06672	
AEPW	WELEETKA TERTIARY # 5	1	54.0	-0.0005	AEPW	EASTMAN	1	28.0	0.06618	-0.06668	32
AEPW	SOUTHWESTERN STATION #1	1	16.0	-0.00054		EASTMAN	1	28.0	0.06618 0.06618	-0.06672 -0.06659	
AEPW AEPW	RIVERSIDE STATION #1 OECGT1-1	1	27.0 175.0	-0.00041 -0.00039		EASTMAN EASTMAN	1	28.0 28.0	0.06618	-0.06659	
AEPW	OECGT1-2	1	175.0	-0.00039	AEPW	EASTMAN	1	28.0	0.06618	-0.06657	32
AEPW	WELEETKA TERTIARY # 6 LIEBERMAN #1	1	53.0	-0.0005 0.00013		EASTMAN	1 1	28.0	0.06618	-0.06668	
AEPW AEPW	OECGT2-2	1	27.0 175.0	-0.00039		EASTMAN EASTMAN	1	28.0 28.0	0.06618	-0.06605 -0.06657	
AEPW	OECGT2-1	1	175.0	-0.00039	AEPW	EASTMAN	1	28.0	0.06618	-0.06657	32
AEPW	OECSTM 2	1	255.0	-0.00039		EASTMAN	1 1	28.0	0.06618	-0.06657	
AEPW AEPW	LIEBERMAN #2 TENASKA GATEWAY GAS 3	1	27.0 400.0	0.00013 0.00758		EASTMAN EASTMAN	1	28.0 178.5	0.06618 0.06618	-0.06605 -0.0586	
AEPW	TENASKA GATEWAY GAS 2	1	179.0	0.00758	AEPW	EASTMAN	1	178.5	0.06618	-0.0586	36
AEPW	TENASKA GATEWAY STEAM 1	1	179.0	0.00758		EASTMAN	1	178.5	0.06618	-0.0586	
AEPW AEPW	TENASKA GATEWAY STEAM 1 TENASKA GATEWAY STEAM 1	1	179.0 179.0	0.00758 0.00758		EASTMAN EASTMAN	1	178.5 178.5	0.06618 0.06618	-0.0586 -0.0586	
AEPW	TENASKA GATEWAY GAS 2	1	179.0	0.00758	AEPW	EASTMAN	1	178.5	0.06618	-0.0586	36
AEPW AEPW	TENASKA GATEWAY GAS 1 TENASKA GATEWAY GAS 3	1	179.0 400.0	0.00758 0.00758		EASTMAN EASTMAN	1	178.5 178.5	0.06618 0.06618	-0.0586 -0.0586	
AEPW	TENASKA GATEWAY GAS 3 TENASKA GATEWAY STEAM 1	1	179.0	0.00758		EASTMAN	1	28.0	0.06618	-0.0586	
AEPW	TENASKA GATEWAY GAS 3	1	400.0	0.00758		EASTMAN	1	28.0	0.06618	-0.0586	

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

 $\underline{\textbf{Table 6}} \text{ - Potential Redispatch Relief Pairs to Prevent Deferral of Service}$

Wichita - Reno Co 345KV
EXIDE JUNCTION - NORTH AMERICAN PHILIPS 115KV CKT 1
To--From
NORTHVIEW - SUMMIT 115KV CKT 1
57368573721573715738112206SH
6/1/06 - 10/1/06, 6/1/07 - 10/1/07, 6/1/08 - 10/1/08, 6/1/09 - 10/1/09, & 6/1/10 - 10/1/10

Aggregate

		Relief	
Reservation	Relief Amount	Amount	
974561	2.3	2.5	
974662	0.1	2.5	
974988	0.1	2.5	ı
			Α

Michael Mich	974561	2.3	2.5									
Succide Control Ansa Proc. OF TO FIRST PROCESSOR AND STATEMENT TO THE STATEMENT OF THE STA	974662	0.1	2.5									
American	974900	0.1	2.5	Maximum		Sink			Maximum	1		Redispatch
Section Sect												Amount
SEPT SPILE OF TOP DESPETED AND TRANSPORT 1	Source Control Area	Source	Source Id	(MW)	GSF	Area	Sink	Sink Id	(MW)	GSF	Factor	(MW)
Sept. Compt of Comptend (1997) 1.000 1.0	WERE			0-10				1				13
March	WERE											13
SEC. SQL COTTO PAGE-PRISON TETAL PACE 1 700 ADDI-OPPRISON TETAL PACE 200 2016 2026												13
MARCHAND DICT OF MORPHON AND TIMES 1 50, 0 0 0 0 0 0 0 0 0 0												13
Section	WERE											12
MARCHAN MULTIPLY MONTHS AND MARCHAN 1 50 0.1004/1965 4.0796 1 4.001 0.0016 0.2016	WERE											12
WILLIAM WILL	WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.19045		JEFFREY	1	470.0	0.01145	-0.2019	12
WITE	WERE		_					1				12
WELL	WERE		_									12
WEST STUDIES OF PROPERTION STATE AND PARTY 1 27 0 1000 PROPERTY 1 20 0 00007 0.1000												12
WEE BUT, CITY OF INCRESSION GAS UNBRIES 2 1 1 00.0 C 1000 (WEE DAWNES) 1 25.0 C 00007 0.1000 (WEE BUT, CITY OF INCRESSION GAS UNBRIES 2 1 1 00.0 C 1000 (WEE BUT, CITY OF INCRESSION GAS UNBRIES 2 1 1 00.0 C 1000 (WEE BUT, CITY OF INCRESSION GAS UNBRIES 2 1 1 00.0 C 1000 (WEE BUT, CITY OF INCRESSION GAS UNBRIES 2 1 1 00.0 C 1000 (WEE BUT, CITY OF INCRESSION GAS UNBRIES 3 1 0 0.0 C 1000 (WEE BUT, CITY OF INCRESSION GAS UN												12
WEEL	WERE											13
WERE	WERE		1					1				13
WERE	WERE		_					1				13
WEEL	WERE											13
VERTICAL PRICE PRICE OF THE AMPRICAL 1												13
WEST SPU-CITY OF MATPHESON GAS TURBINES 1 500 31900 WEST AMPREN 1 2200 4.00071 0.10078 WEST WEST SPU-CITY OF MATPHESON GAS TURBINES 1 2 0.00071 0.10078 WEST WEST SPU-CITY OF MATPHESON GAS TURBINES 1 2 0.00071 0.10078 WEST WEST SPU-CITY OF MATPHESON GAS TURBINES 1 2 0.00071 0.10078 WEST												13
REFER BPU_CTY OF MCPHESON GAS TURBINS 2 1	WERE											13
REFE	WERE		1					1				13
WEEL	WERE		1					1				13
YEEL	WERE							1				13
NETER SPU_CITY OF MOPPLESSON CAS TURBRE 2 1 50.0 0.10040 VERT VERY VER	WERE		_					11				13
NESS BBUL CITY OF MOPHESSON GAS TURBINES 1 500 31004 WORE BVANE BY 1 195.0 0.00001 0.10009 WIRE BWAY BROWN STATE WAS AND			_					1				13
REFE BPU_CITY OF MOPHERSON CAS TURBREY 1 5:00 0:10046 VERTE WCCO 1 160 0:00106 0:10006 PRESE BPU_CITY OF MOPHERSON CAS TURBREY 1 5:00 0:10046 VERTE WCCO 1 160 0:00106 0:10006 PRESE BPU_CITY OF MOPHERSON CAS TURBREY 1 27:00 1:0004 WCCO 1 160 0:00106 0:10006 PRESE BPU_CITY OF MOPHERSON CAS TURBREY 1 1 27:00 1:0004 WCRE BPU_CITY OF MOPHERSON CAS TURBREY 1 1 27:00 1:0004 WCRE BPU_CITY OF MOPHERSON CAS TURBREY 1 1 27:00 1:0004 WCRE BPU_CITY OF WOPHERSON CAS TURBREY 1 1 27:00 1:0004 WCRE BPU_CITY OF WOPHERSON CAS TURBREY 1 1 2:00 0:0004 WCRE BPU_CITY OF WOPHERS	WERE		_					1				13
WEEL BPU_CITY OF MOPHESSON GAS TURBRES 1 50.0 0.1966] WEEL WACCO 1 16.0 0.00106 0.1969]	WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	_			WERE		1				13
WEBE	WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3		50.0	-0.19045	WERE	WACO	1	18.0	-0.00106	-0.18939	13
WEBE	WERE											13
WEBE	WERE	BPU - CITY OF MCPHERSON STEAM PLANT										13
WEBE			_									13
WERE	WERE		_									13
REFER BPU_CTYO' MOPHERSON AS TURBINE 2 1 22.0 0.1904/WEE 0TYO'F 6 11.0 0.00064 0.189811 WEER BPU_CTYO' MOPHERSON AS TURBINE 2 1 52.0 0.1904/WEE 0TYO'F 8 0 11.0 0.00064 0.189811 WEER BPU_CTYO' MOPHERSON AS TURBINE 2 1 52.0 0.1904/WEE 0TYO'F 8 0 11.0 0.00064 0.189811 WEER BPU_CTYO' MOPHERSON AS TURBINE 2 1 52.0 0.1904/WEE 0TYO'F 8 0 11.0 0.00064 0.189811 WEER BPU_CTYO' MOPHERSON AS TURBINE 2 1 52.0 0.1904/WEE 0TYO'F 8 0 11.0 0.00064 0.189811 WEER BPU_CTYO' MOPHERSON AS TURBINE 3 1 51.0 0.1904/WEE 0TYO'F 8 1 28.3 0.00041 0.18904 WEER BPU_CTYO' MOPHERSON AS TURBINE 3 1 51.0 0.1904/WEE 0TYO'F 8 1 28.3 0.00041 0.18904 WEER BPU_CTYO' MOPHERSON AS TURBINE 3 1 51.0 0.1904/WEE 0TYO'F 8 1 28.3 0.00041 0.18904 WEER BPU_CTYO' MOPHERSON AS TURBINE 3 1 51.0 0.1904/WEE 0TYO'F 8 1 11.3 0.00041 0.18904 WEER BPU_CTYO' MOPHERSON AS TURBINE 3 1 51.0 0.1904/WEE 0TYO'F 8 7 11.3 0.00041 0.18904 WEER BPU_CTYO' MOPHERSON AS TURBINE 3 1 51.0 0.1904/WEE 0TYO'F 8 7 11.3 0.00041 0.18904 WEER BPU_CTYO' MOPHERSON AS TURBINE 3 1 51.0 0.1904/WEE 0TYO'F 8 7 11.3 0.00041 0.18904 WEER BPU_CTYO' MOPHERSON AS TURBINE 3 1 51.0 0.1904/WEE 0TYO'F 8 7 11.3 0.00041 0.18904 WEER BPU_CTYO' MOPHERSON AS TURBINE 3 1 51.0 0.1904/WEE 0TYO'F 8 7 11.3 0.00041 0.18904 WEER BPU_CTYO' MOPHERSON AS TURBINE 2 1 52.0 0.1904/WEE 0TYO'F 8 7 11.3 0.00041 0.18904 WEER BPU_CTYO' MOPHERSON AS TURBINE 2 1 52.0 0.1904/WEE 0TYO'F 8 7 11.3 0.00041 0.18904 WEER BPU_CTYO' MOPHERSON AS TURBINE 2 1 52.0 0.1904/WEE 0TYO'F 8 7 11.3 0.00041 0.18904 WEER BPU_CTYO' MOPHERSON AS TURBINE 2 1 52.0 0.1904/WEE 0TYO'F 8 7 11.3 0.00041 0.18904 WEER BPU_CTYO' MOPHERSON AS TURBINE 2 1 52.0 0.1904/WEE 0TYO'F 8 7 11.3 0.00041 0.18904 WEER BPU_CTYO' MOPHERSON AS TURBINE 2 1 52.0 0.1904/WEE 0TYO'F 8 7 11.3 0.00041 0.18904 WEER BPU_CTYO' MOPHERSON AS TURBINE 2 1 52.0 0.1904/WEE 0TYO'F 8 1 12.0 0.00026 0.18907 WEER BPU_CTYO' MOPHERSON AS TURBINE 2 1 52.0 0.1904/WEE 0TYO'F 8 1 12.0 0.00026 0.18907 WEER BPU_CTYO'F MOPHERSON AS TURBINE 3 1 50.0 0.1904/WEE 0TY	WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2		52.0		WERE	CITY OF V					13
WERE BPU_CITY OF MCPHERSON CAS TURBINE 3 1 50.0 0, 1006/WERE CITY OF W 6 110, 0.00064 0,18881 WERE BPU_CITY OF MCPHERSON CAS TURBINE 2 1 50.0 0, 1006/WERE CITY OF W 1 283, 0.00041 0,18064 WERE BPU_CITY OF MCPHERSON CAS TURBINE 2 1 50.0 0, 1006/WERE CITY OF W 1 283, 0.00041 0,18064 WERE BPU_CITY OF MCPHERSON CAS TURBINE 2 1 50.0 0, 1006/WERE CITY OF W 1 283, 0.00041 0,18064 WERE BPU_CITY OF MCPHERSON CAS TURBINE 3 1 50.0 0, 1006/WERE CITY OF W 1 283, 0.00041 0,18064 WERE BPU_CITY OF MCPHERSON CAS TURBINE 3 1 50.0 0, 1006/WERE CITY OF W 1 283, 0.00041 0,18064 WERE BPU_CITY OF MCPHERSON CAS TURBINE 3 1 50.0 0, 1006/WERE CITY OF W 1 283, 0.00041 0,18064 WERE BPU_CITY OF MCPHERSON CAS TURBINE 3 1 50.0 0, 1006/WERE CITY OF W 1 113, 0.00041 0,18064 WERE BPU_CITY OF MCPHERSON CAS TURBINE 2 1 50.0 0, 1006/WERE CITY OF W 1 113, 0.00041 0,18064 WERE BPU_CITY OF MCPHERSON CAS TURBINE 2 1 50.0 0, 1006/WERE CITY OF W 1 113, 0.00041 0,18064 WERE BPU_CITY OF MCPHERSON CAS TURBINE 2 1 50.0 0, 1006/WERE CITY OF W 1 113, 0.00041 0,18064 WERE BPU_CITY OF MCPHERSON CAS TURBINE 2 1 50.0 0, 1006/WERE CITY OF W 1 113, 0.00041 0,18064 WERE BPU_CITY OF MCPHERSON CAS TURBINE 2 1 50.0 0, 1006/WERE CITY OF W 1 113, 0.00041 0,18064 WERE BPU_CITY OF MCPHERSON CAS TURBINE 3 1 50.0 0, 1006/WERE CITY OF W 1 103, 0.00076 0,18077 WERE BPU_CITY OF MCPHERSON CAS TURBINE 3 1 50.0 0, 1006/WERE CITY OF W 1 103, 0.00076 0,18077 WERE BPU_CITY OF MCPHERSON CAS TURBINE 3 1 50.0 0, 1006/WERE CITY OF W 1 103, 0.00076 0,18077 WERE BPU_CITY OF MCPHERSON CAS TURBINE 3 1 50.0 0, 1006/WERE CITY OF W 1 103, 0.00076 0,18077 WERE BPU_CITY OF MCPHERSON CAS TURBINE 3 1 50.0 0, 1006/WERE CITY OF W 1 200, 0.00076 0,18077 WERE BPU_CITY OF MCPHERSON CAS TURBINE 3 1 50.0 0, 1006/WERE CITY OF W 1 200, 0.00076 0,18077 WERE BPU_CITY OF MCPHERSON CAS TURBINE 3 1 50.0 0, 1006/WERE CITY OF W 1 200, 0.00076 0,18077 WERE BPU_CITY OF MCPHERSON CAS TURBINE 3 1 50.0 0, 1006/WERE CITY OF W 1 200, 0.00076 0,18077 WERE BPU_	WERE		1									13
WERE BPU_CITY OF MCPHERSON AGE TURBINE 2 1 52.0 0.1004/JWERE CITY OF V 1 1.26.3 0.00041 0.10040 WERE BPU_CITY OF MCPHERSON AGE TURBINE 2 1 52.0 0.10040 WERE CITY OF V 1 1.26.3 0.00041 0.10040 WERE BPU_CITY OF MCPHERSON AGE TURBINE 1 1 51.0 0.10040 WERE CITY OF V 1 1.26.3 0.00041 0.10040 WERE BPU_CITY OF MCPHERSON AGE TURBINE 1 1 27.0 0.10040 WERE CITY OF V 1 1.26.3 0.00041 0.10040 WERE BPU_CITY OF MCPHERSON AGE TURBINE 3 1 27.0 0.10040 WERE BPU_CITY OF MCPHERSON AGE TURBINE 3 1 50.0 0.10040 WERE CITY OF V 1 1.13.0 0.00041 0.10040 WERE BPU_CITY OF MCPHERSON AGE TURBINE 3 1 50.0 0.10040 WERE CITY OF V 1 1.13.0 0.00041 0.10040 WERE BPU_CITY OF MCPHERSON AGE TURBINE 1 51.0 0.10040 WERE BPU_CITY OF MCPHERSON AGE TURBINE 1 51.0 0.10040 WERE BPU_CITY OF MCPHERSON AGE TURBINE 1 51.0 0.10040 WERE BPU_CITY OF MCPHERSON AGE TURBINE 2 1 52.0 0.10040 WERE BPU_CITY OF MCPHERSON AGE TURBINE 2 1 52.0 0.10040 WERE BPU_CITY OF MCPHERSON AGE TURBINE 2 1 52.0 0.10040 WERE BPU_CITY OF MCPHERSON AGE TURBINE 2 1 52.0 0.10040 WERE BPU_CITY OF MCPHERSON AGE TURBINE 2 1 52.0 0.10040 WERE BPU_CITY OF MCPHERSON AGE TURBINE 2 1 52.0 0.10040 WERE BPU_CITY OF MCPHERSON AGE TURBINE 2 1 52.0 0.10040 WERE BPU_CITY OF MCPHERSON AGE TURBINE 2 1 52.0 0.10040 WERE BPU_CITY OF MCPHERSON AGE TURBINE 2 1 52.0 0.10040 WERE BPU_CITY OF MCPHERSON AGE TURBINE 2 1 52.0 0.10040 WERE BPU_CITY OF MCPHERSON AGE TURBINE 2 1 52.0 0.10040 WERE BPU_CITY OF MCPHERSON AGE TURBINE 2 1 52.0 0.10040 WERE BPU_CITY OF MCPHERSON AGE TURBINE 3 1 50.0 0.10040 WERE BPU_CITY OF MCPHERSON AGE TURBINE 3 1 50.0 0.10040 WERE CHANNITE 1 377 0.00022 0.10073 WERE BPU_CITY OF MCPHERSON AGE TURBINE 1 51.0 0.10040 WERE CHANNITE 1 377 0.00022 0.10073 WERE BPU_CITY OF MCPHERSON AGE TURBINE 1 51.0 0.10040 WERE CHANNITE 1 377 0.00022 0.10073 WERE BPU_CITY OF MCPHERSON AGE TURBINE 1 1 51.0 0.10040 WERE CHANNITE 1 377 0.00022 0.10073 WERE BPU_CITY OF MCPHERSON AGE TURBINE 1 1 51.0 0.10040 WERE CHANNITE 1 377 0.00022 0.10073 WERE BPU_CITY OF MCPHERSON AGE TURBINE 1 1 51.0 0.10040 WERE EPFREY	WERE		_									13
WERE BPU_CITY OF MCPHERSON CAS TURBINE 2 1 \$5.0 0, 1906/WERE CITY OF VI 1 28.3 0.000041 0.1900/WERE BPU_CITY OF WOMENESON CAS TURBINE 1 5 \$1.0 0, 1906/WERE CITY OF MCPHERSON CAS TURBINE 3 1 \$5.0 0, 1906/WERE CITY OF VI 1 28.3 0.000041 0.1900/WERE BPU_CITY OF MCPHERSON CAS TURBINE 3 1 \$5.0 0, 1906/WERE CITY OF VI 1 28.3 0.000041 0.1900/WERE BPU_CITY OF MCPHERSON CAS TURBINE 3 1 \$5.0 0, 1906/WERE CITY OF VI T 11.3 0.00041 0.1900/WERE BPU_CITY OF MCPHERSON CAS TURBINE 3 1 \$5.0 0, 1906/WERE CITY OF VI T 11.3 0.00041 0.1900/WERE BPU_CITY OF MCPHERSON CAS TURBINE 3 1 \$5.0 0, 1906/WERE CITY OF VI T 11.3 0.00041 0.1900/WERE BPU_CITY OF MCPHERSON CAS TURBINE 2 2 \$1.0 0, 1906/WERE CITY OF VI T 11.3 0.00041 0.1900/WERE BPU_CITY OF MCPHERSON CAS TURBINE 2 3 \$1.0 0, 1906/WERE CITY OF VI T 11.3 0.00041 0.1900/WERE BPU_CITY OF MCPHERSON CAS TURBINE 2 3 \$1.0 0, 1906/WERE CITY OF VI T 11.3 0.00041 0.1900/WERE BPU_CITY OF MCPHERSON CAS TURBINE 2 3 \$1.0 0, 1906/WERE CITY OF VI T 11.3 0.00041 0.1900/WERE BPU_CITY OF MCPHERSON CAS TURBINE 2 4 \$2.0 0, 1906/WERE BPU_CITY OF MCPHERSON CAS TURBINE 2 4 \$2.0 0, 1906/WERE CITY OF WCPHERSON CAS TURBINE 2 5 \$2.0 0, 1906/WERE CITY OF WCPHERSON CAS TURBINE 2 5 \$2.0 0, 1906/WERE CITY OF WCPHERSON CAS TURBINE 2 5 \$2.0 0, 1906/WERE CITY OF VI T 11.3 0.00041 0.1900/WERE BPU_CITY OF MCPHERSON CAS TURBINE 2 5 \$2.0 0, 1906/WERE CITY OF WCPHERSON CAS TURBINE 2 5 \$2.0 0, 1906/WERE CITY OF VI T 1.3 0.0004 0.1907/WERE BPU_CITY OF MCPHERSON CAS TURBINE 2 5 \$2.0 0, 1906/WERE CITY OF VI T 1.3 0.0004 0.1907/WERE BPU_CITY OF MCPHERSON CAS TURBINE 2 5 \$2.0 0, 1906/WERE CITY OF VI T 1.3 0.0004 0.1907/WERE BPU_CITY OF MCPHERSON CAS TURBINE 2 5 \$2.0 0, 1906/WERE BPU_CITY OF MCPHERSON CAS TURBINE 2 5 \$2.0 0, 1906/WERE CITY OF VI T 1.3 0.0006 0.1907/WERE BPU_CITY OF MCPHERSON CAS TURBINE 2 5 \$2.0 0, 1906/WERE BPU_CITY OF MCPHERSON CAS TURBINE 2 5 \$2.0 0, 1906/WERE BPU_CITY OF MCPHERSON CAS TURBINE 2 5 \$2.0 0, 1906/WERE BPU_CITY OF MCPHERSON CAS TURBINE 2 5 \$2.0 0, 1906/WERE BPU_CITY OF MC			_									13
WERE			_									13
WERE BBU_CITY_OF_MCPHERGON_GAS_TURBINE 3	WERE		_			WERE						13
WERE BPU_CITY_OF MCPHERGON GAS TURBINS 1 5.00 0.19045 WERE GTTY_OF M_T 11.3 0.00041 0.19040 WERE BPU_CITY_OF MCPHERGON STAMPLANT 1 5.10 0.19045 WERE GTTY_OF M_T 11.3 0.00041 0.19040 WERE BPU_CITY_OF MCPHERGON STAMPLANT 1 27.0 0.19045 WERE GTTY_OF M_T 11.3 0.00041 0.19040 WERE BPU_CITY_OF MCPHERGON STAMPLANT 1 5.0 0.19045 WERE GTTY_OF M_T 11.3 0.00041 0.19040 WERE BPU_CITY_OF MCPHERGON GAS TURBINS 1 5.0 0.19045 WERE GTTY_OF M_T 11.3 0.00041 0.19040 WERE BPU_CITY_OF MCPHERGON GAS TURBINS 2 1 5.0 0.19045 WERE GTTY_OF M_T 11.3 0.00028 0.19079 WERE BPU_CITY_OF MCPHERGON GAS TURBINS 2 1 5.0 0.19045 WERE GTTY_OF M_T 11.3 0.00028 0.19079 WERE BPU_CITY_OF MCPHERGON GAS TURBINS 3 1 5.0 0.19045 WERE GTTY_OF MCPHERGON GAS TURBINS 3 1 5.0 0.19045 WERE GTTY_OF MCPHERGON GAS TURBINS 3 1 5.0 0.19045 WERE GTTY_OF MCPHERGON GAS TURBINS 3 1 5.0 0.19045 WERE GTTY_OF MCPHERGON GAS TURBINS 3 1 5.0 0.19045 WERE GTTY_OF MCPHERGON GAS TURBINS 3 1 5.0 0.19045 WERE GTTY_OF MCPHERGON GAS TURBINS 3 1 5.0 0.19045 WERE GTTY_OF MCPHERGON GAS TURBINS 3 1 5.0 0.19045 WERE GTTY_OF MCPHERGON GAS TURBINS 4 1 5.0 0.00028 0.19073 WERE BPU_CITY_OF MCPHERGON GAS TURBINS 4 1 5.0 0.00028 0.19073 WERE BPU_CITY_OF MCPHERGON GAS TURBINS 4 1 5.0 0.00028 0.19073 WERE BPU_CITY_OF MCPHERGON GAS TURBINS 4 1 70.0 0.10028 WERE GTTY_OF MCPHERGON GAS TURBINS 4 1 70.0 0.10028 WERE GTTY_OF MCPHERGON GAS TURBINS 4 1 70.0 0.10028 WERE GTTY_OF MCPHERGON GAS TURBINS 4 1 70.0 0.10028 WERE GTTY_OF MCPHERGON GAS TURBINS 4 1 70.0 0.10028 WERE GTTY_OF MCPHERGON GAS TURBINS 4 1 70.0 0.10028 WERE GTTY_OF MCPHERGON GAS TURBINS 4 1 70.0 0.10028 WERE GTTY_OF MCPHERGON GAS TURBINS 4 1 70.0 0.10028 WERE GTTY_OF MCPHERGON GAS TURBINS 4 1 70.0 0.10028 WERE GTTY_OF MCPHERGON GAS TURBINS 4 1 70.0 0.10028 WERE GTTY_OF MCPHERGON GAS TURBINS 4 1 70.0 0.10028 WERE GTTY_OF MCPHERGON GAS TURBINS 4 1 70.0 0.10028 WERE GTTY_OF MCPHERGON GAS TURBINS 4 1 70.0 0.10028 WERE TECLUMS 1 40.0 0.00000 0.10442 WERE BPU_CITY_OF MCPHERGON GAS TURBINS 4 1 70.0 0.10028 WERE TECLUMS 1 40.0 0.00000 0	WERE							1				13
WERE BPU_CITY OF MCPHERSON GAS TURBINE 1	WERE		1					1				13
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Were	WERE		1					1				15
VERE	WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4		79.0	-0.16638	WERE	LAWRENC	1	228.9	-0.00071		15
VERE BPU - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 -0.16638 WERE EVANS EN 1 195.0 -0.00003 -0.16635 VERE BPU - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 -0.16638 WERE WACO 1 18.0 -0.00106 -0.16532 VERE BPU - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 -0.16638 WERE CITY OF V 1 16.3 -0.00064 -0.16574 VERE BPU - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 -0.16638 WERE CITY OF V 1 16.3 -0.00064 -0.16574 VERE BPU - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 -0.16638 WERE CITY OF V 1 26.3 -0.00041 -0.16597 VERE BPU - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 -0.16638 WERE CITY OF V 1 26.3 -0.00041 -0.16597 VERE BPU - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 -0.16638 WERE CITY OF V T 11.3 -0.00041 -0.16597 VERE BPU - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 -0.16638 WERE CITY OF V T 11.3 -0.00041 -0.16597 VERE BPU - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 -0.16638 WERE CITY OF V T 11.3 -0.00041 -0.16597 VERE BPU - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 -0.16638 WERE CITY OF V T 11.3 -0.00041 -0.16666 VERE BPU - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 -0.16638 WERE CITY OF V T 1.3 -0.00028 -0.16666 VERE HUTCHINSON ENERGY CENTER UNIT 2 1 18.0 -0.10063 WERE JEFFREY 1 47.0 0.01145 -0.11208 VERE HUTCHINSON ENERGY CENTER UNIT 3 1 11.0 -0.10063 WERE JEFFREY 1 47.0 0.01145 -0.11228 VERE HUTCHINSON ENERGY CENTER GAS TURBINE 1 1 11.0 -0.10063 WERE JEFFREY 1 47.0 0.01145 -0.11228 VERE HUTCHINSON ENERGY CENTER GAS TURBINE 1 1 52.0 -0.10063 WERE JEFFREY 1 47.0 0.01145 -0.11228 VERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 52.0 -0.10063 WERE JEFFREY 1 47.0 0.01145 -0.11228 VERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 52.0 -0.10063 WERE JEFFREY 1 47.0 0.0.01145 -0.11228 VERE HUTCHINSON	WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4		79.0	-0.16638	WERE				-0.00603	-0.16035	16
VERE	WERE											16
VERE												15 15
VERE	WERE											15
VERE	WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4					CITY OF V					15
VERE	WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.16638	WERE		1	26.3	-0.00041	-0.16597	15
VERE	WERE											15
WERE												15
VERE	WERE											15 22
WERE	WERE								470.0	0.01145		22
WERE	WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	111.0	-0.10083	WERE	JEFFREY	1	470.0	0.01145	-0.11228	22
VERE	WERE											22
VERE	WERE											22
VERE												22
VERE	WERE											22
VERE	WERE											22
VERE	WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3			-0.10083	WERE			470.0	0.01145	-0.11228	22
VERE	WERE				-0.10063	WERE			470.0	0.01145		22
VERE HUTCHINSON ENERGY CENTER UNIT 4 1 111.0 -0.10083 WERE JEFFREY 1 470.0 0.01145 -0.11228 2 VERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.10074 WERE JEFFREY 1 470.0 0.01145 -0.11228 2 VERE HUTCHINSON ENERGY CENTER UNIT 2 1 18.0 -0.10083 WERE JEFFREY 1 470.0 0.01065 -0.11228 VERE HUTCHINSON ENERGY CENTER UNIT 2 1 18.0 -0.10063 WERE JEFFREY 1 470.0 0.00065 -0.10128 2 VERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 52.0 -0.10083 WERE JEFFREY 1 470.0 0.00065 -0.10128 2 VERE HUTCHINSON ENERGY CENTER UNIT 1 1 18.0 -0.10063 WERE JEFFREY 1 470.0 0.00065 -0.10128 2 VERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.10063 WERE JEFFREY 1 470.0 0.00065	WERE											22
VERE												22
WERE HUTCHINSON ENERGY CENTER UNIT 2 1 18.0 -0.10063 WERE JEFFREY 1 470.0 0.01145 -0.11208 2 VERE HUTCHINSON ENERGY CENTER UNIT 2 1 18.0 -0.10063 WERE JEFFREY 1 470.0 0.00065 -0.10128 2 VERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 52.0 -0.10033 WERE JEFFREY 1 470.0 0.00065 -0.10148 2 VERE HUTCHINSON ENERGY CENTER UNIT 1 1 18.0 -0.10063 WERE JEFFREY 1 470.0 0.00065 -0.10128 2 VERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.10074 WERE JEFFREY 1 470.0 0.00065 -0.10128 2 VERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.10074 WERE JEFFREY 1 470.0 0.00065 -0.10128 2												22
VERE HUTCHINSON ENERGY CENTER UNIT 2 1 18.0 -0.10063 WERE JEFFREY 1 470.0 0.00065 -0.10128 2 VERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 52.0 -0.10083 WERE JEFFREY 1 470.0 0.00065 -0.10148 2 VERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 18.0 -0.10074 WERE JEFFREY 1 470.0 0.00065 -0.10128 2 VERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.10074 WERE JEFFREY 1 470.0 0.00065 -0.10139 2	WERE											22
VERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 52.0 -0.10083 WERE JEFFREY 1 470.0 0.00065 -0.10148 2 VERE HUTCHINSON ENERGY CENTER UNIT 1 18.0 -0.10063 WERE JEFFREY 1 470.0 0.00065 -0.10128 2 VERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.10074 WERE JEFFREY 1 470.0 0.00065 -0.10139 VERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.10074 WERE JEFFREY 1 470.0 0.00065 -0.10139 VERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.10074 WERE JEFFREY 1 470.0 0.00065 -0.10139	WERE											25
VERE HUTCHINSON ENERGY CENTER UNIT 1 1 18.0 -0.10063 WERE JEFFREY 1 470.0 0.00065 -0.10128 2 VERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.10074 WERE JEFFREY 1 470.0 0.00065 -0.10139 2	WERE											25
	WERE	HUTCHINSON ENERGY CENTER UNIT 1	11	18.0	-0.10063	WERE	JEFFREY	1	470.0	0.00065	-0.10128	2
Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.	WERE		1					1		0.00065	-0.10139	2

WERE INDICATIONS ENERGY CENTER GAS TURBINE 2 | 1 | 50.0| -0.10074|WERE JEFFREY | 1 | 4: 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

 $\underline{\textbf{Table 6}} \text{ - Potential Redispatch Relief Pairs to Prevent Deferral of Service}$

Wichita - Reno Co 345KV
EXIDE JUNCTION - SUMMIT 115KV CKT 1
To--From
EAST MCPHERSON - SUMMIT 230KV CKT 1
57368573811568725687312206SH
6/1/06 - 10/1/06, 6/1/07 - 10/1/07, 6/1/08 - 10/1/08, 6/1/09 - 10/1/09, & 6/1/10 - 10/1/10

		Aggregate Relief	
Reservation	Relief Amount	Amount	
974561	7.8	8.3	
974662	0.2	8.3	
974988	0.3	8.3	

974561	7.8	8.3									
974662 974988	0.2	8.3 8.3									
974988	0.3	8.3	Maximum		Sink	1		Maximum			Redispatch
			Increment		Control			Decrement			Amount
Source Control Area	Source	Source Id	(MW)	GSF	Area	Sink	Sink Id	(MW)	GSF	Factor	(MW)
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0		WERE	JEFFREY	1	470.0	0.02345	-0.32837	25
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.30492	WERE	JEFFREY	1	470.0	0.02345	-0.32837	25
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.30492	WERE	JEFFREY	1	470.0	0.02345	-0.32837	25
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.30492	WERE	JEFFREY	1	470.0	0.02345	-0.32837	25
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.30492	WERE	JEFFREY	1	470.0	0.02345	-0.32837	25
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.30492	WERE	JEFFREY	1	470.0	0.02345	-0.32837	25
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.30492	WERE	JEFFREY	1	470.0	0.02345	-0.32837	25
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.30492	WERE	JEFFREY	1	470.0	0.02345	-0.32837	25
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.30492	WERE	JEFFREY	1	470.0	0.01647	-0.32139	26
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.30492	WERE	JEFFREY	1	470.0	0.01647	-0.32139	26
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0		WERE	JEFFREY	1	470.0	0.01647	-0.31436	26
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0		WERE	JEFFREY	1	470.0	0.01647	-0.32139	26
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0		WERE	JEFFREY	1	470.0	0.01647	-0.32139	26
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0		WERE	JEFFREY	1	470.0	0.02345	-0.32134	26
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.29789	WERE	JEFFREY	1	470.0	0.02345	-0.32134	26
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.30492	WERE	LAWRENC	1	25.0	0.00945	-0.31437	26
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.30492	WERE	LAWRENC	1	25.0	0.00945	-0.31437	26
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0		WERE	LAWRENC	1	25.0	0.00945	-0.31437	26
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0 27.0		WERE	LAWRENC	1	25.0	0.00945	-0.31437	26
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1			WERE	LAWRENC	1	60.0	0.00945	-0.31437	26
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3 BPU - CITY OF MCPHERSON GAS TURBINE 1	1	50.0 51.0	-0.30492 -0.30492	WERE WERE	LAWRENC	1	60.0	0.00945	-0.31437 -0.31437	26 26
WERE	BPU - CITY OF MICPHERSON GAS TURBINE 2	1	52.0	-0.30492	WERE	LAWRENC LAWRENC	1	60.0 60.0	0.00945 0.00945	-0.31437	26
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.30492	WERE	LAWRENC	1	228.9	0.00995	-0.31487	26
WERE	BPU - CITY OF MICPHERSON GAS TURBINE 3	1	52.0		WERE	LAWRENC	1	228.9	0.00995	-0.31487	26
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0		WERE	LAWRENC	1	228.9	0.00995	-0.31487	26
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0		WERE	LAWRENC	1	228.9	0.00995	-0.31487	26
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0		WERE	LAWRENC	1	25.0	0.00945	-0.30734	27
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0		WERE	LAWRENC	1	60.0	0.00945	-0.30734	27
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.29789	WERE	LAWRENC	1	228.9	0.00995	-0.30784	27
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.30492	WERE	TECUMSE	1	40.0	0.00847	-0.31339	27
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.30492	WERE	TECUMSE	1	40.0	0.00847	-0.31339	27
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.30492	WERE	TECUMSE	1	40.0	0.00847	-0.31339	27
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.30492	WERE	TECUMSE	1	40.0	0.00847	-0.31339	27
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0		WERE	TECUMSE	1	40.0	0.00847	-0.30636	27
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0		WERE	TECUMSE	1	68.0	0.00847	-0.30636	27
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0		WERE	TECUMSE	1	68.0	0.00847	-0.31339	27
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0		WERE	TECUMSE	1	68.0	0.00847	-0.31339	27
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.30492	WERE	TECUMSE	1	68.0	0.00847	-0.31339	27
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.30492	WERE	TECUMSE	1	68.0	0.00847	-0.31339	27
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0		WERE	EVANS EN	1	195.0	0.0004	-0.30532	27
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0		WERE	EVANS EN	1	195.0	0.0004	-0.30532	27
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1 BPU - CITY OF MCPHERSON STEAM PLANT	1	51.0 27.0		WERE WERE	EVANS EN	1	195.0	0.0004	-0.30532 -0.30532	27 27
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0		WERE	EVANS EN CHANUTE	1	195.0 37.7	0.0004	-0.30651	27
WERE	BPU - CITY OF MICPHERSON GAS TURBINE 3	1	50.0	-0.30492	WERE	CHANUTE	1	37.7	0.00159	-0.30651	27
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.30492	WERE	CHANUTE	1	37.7	0.00159	-0.30651	27
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.30492	WERE	CHANUTE	i	37.7	0.00159	-0.30651	27
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.30492	WERE	CITY OF E	1	20.0	0.00159	-0.30651	27
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0		WERE	CITY OF E	1	20.0	0.00159	-0.30651	27
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0		WERE	CITY OF E	1	20.0	0.00159	-0.30651	27
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0		WERE	CITY OF E	1	20.0	0.00159	-0.30651	27
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.29789	WERE	EVANS EN	1	195.0	0.0004	-0.29829	28
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0		WERE	WACO	1	18.0	-0.00269	-0.30223	28
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.30492	WERE	WACO	1	18.0	-0.00269	-0.30223	28
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.29789	WERE	WACO	1	18.0	-0.00269	-0.2952	28
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.30492	WERE	WACO	1	18.0	-0.00269	-0.30223	28
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.30492	WERE	WACO	1	18.0	-0.00269	-0.30223	28
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0		WERE	CHANUTE	1	37.7	0.00159	-0.29948	28
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0		WERE	CITY OF E	1	20.0	0.00159	-0.29948	28
WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	111.0		WERE	JEFFREY	1	470.0	0.02345	-0.26403	31
WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	78.0	-0.24057	WERE	JEFFREY	1	470.0	0.02345	-0.26402	31
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.24057	WERE	JEFFREY	1	470.0	0.02345	-0.26402	31
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0		WERE	JEFFREY	1	470.0	0.02345	-0.26402	31
WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	78.0		WERE	JEFFREY	1	470.0	0.02345	-0.26402	31
WERE	HUTCHINSON ENERGY CENTER UNIT 4 HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	111.0		WERE	JEFFREY	1	470.0 470.0	0.02345	-0.26403	31
WERE WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4 HUTCHINSON ENERGY CENTER UNIT 3	1	78.0 31.0	-0.24057 -0.24018	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01647 0.01647	-0.25704 -0.25665	32 32
WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	111.0			JEFFREY	1	470.0	0.01647	-0.25705	32
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0			JEFFREY	1	470.0		-0.25666	32
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0			JEFFREY	1	470.0	0.01647	-0.25704	32
WERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0		WERE	JEFFREY	1	470.0	0.01647	-0.25665	32
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	50.0			JEFFREY	1	470.0	0.01647	-0.25686	32
WERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0			JEFFREY	1	470.0	0.01647	-0.25665	32
WERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0	-0.24018	WERE	JEFFREY	1	470.0	0.02345	-0.26363	32
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	50.0			JEFFREY	1	470.0	0.02345	-0.26384	32
WERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0			JEFFREY	1	470.0	0.02345	-0.26363	32
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0			JEFFREY	1	470.0	0.02345	-0.26364	32
WERE	HUTCHINSON ENERGY CENTER UNIT 3	1	31.0			JEFFREY	1	470.0	0.02345	-0.26363	32
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0			JEFFREY	1	470.0	0.02345	-0.26364	32
WERE	HUTCHINSON ENERGY CENTER UNIT 3	1	31.0			JEFFREY	1	470.0	0.02345	-0.26363	32
WERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0			JEFFREY	1	470.0	0.02345	-0.26363	32
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	50.0			JEFFREY	1	470.0	0.02345	-0.26384	32
WERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0			JEFFREY	1	470.0	0.02345	-0.26363	32
WERE	HUTCHINSON ENERGY CENTER CAS TURBINE 3	1	52.0			LAWRENC	1	25.0	0.00945	-0.25002	33
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	111.0			LAWRENC LAWRENC	1	25.0	0.00945	-0.25003 -0.25002	33
WERE WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	78.0			LAWRENC	1	25.0	0.00945	-0.25002 -0.24963	33
WERE	HUTCHINSON ENERGY CENTER UNIT 1 HUTCHINSON ENERGY CENTER UNIT 2	1	18.0 18.0			LAWRENC	1	25.0 25.0	0.00945 0.00945	-0.24963	33 33
WERE	HUTCHINSON ENERGY CENTER UNIT 2 HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	50.0			LAWRENC	1	25.0	0.00945	-0.24963	33
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0			LAWRENC	1	25.0	0.00945	-0.24984	33
WERE	HUTCHINSON ENERGY CENTER UNIT 3	1	31.0			LAWRENC	1	25.0	0.00945	-0.24963	33
WERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0			LAWRENC	1	60.0	0.00945	-0.24963	33
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0			LAWRENC	1	60.0	0.00945	-0.25002	33
WERE	HUTCHINSON ENERGY CENTER UNIT 3	1	31.0			LAWRENC	1	60.0	0.00945	-0.24963	33
WERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0			LAWRENC	1	60.0	0.00945	-0.24963	33
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0			LAWRENC	1	60.0	0.00945	-0.24964	33
WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	78.0			LAWRENC	1	60.0	0.00945	-0.25002	33
WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	111.0			LAWRENC	1	60.0	0.00945	-0.25003	33
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	50.0	-0.24039	WERE	LAWRENC	1	60.0	0.00945	-0.24984	33
	aximum Increment were determine from the Souce and										

 $\underline{\textbf{Table 6}} \text{ - Potential Redispatch Relief Pairs to Prevent Deferral of Service}$

Wichita - Reno Co 345KV NORTHVIEW - SUMMIT 115KV CKT 1 To->From SPP-WERE-73 57371573811SPP-WERE-732206SH 6/1/06 - 10/1/06, 6/1/07 - 10/1/07, 6/1/08 - 10/1/08, 6/1/09 - 10/1/09, & 6/1/10 - 10/1/10

		Aggregate Relief	l
Reservation	Relief Amount	Amount	ì
974561	0.4	0.5	ı
974988	0.1	0.5	

Reservation 974561	Relief A		Amount 0.5									
974561 974988	0.		0.5 0.5									
	-			Maximum		Sink			Maximum			Redisp
Source Control Area	Sou	irce	Source Id	Increment (MW)	GSF	Control Area	Sink	Sink Id	Decrement (MW)	GSF	Factor	Amo (MV
ERE	BPU - CITY OF MCPHERS		1	50.0	-0.14708		JEFFREY	1	470.0	-0.0014	-0.14568	(IVIV
ERE	BPU - CITY OF MCPHERS	ON STEAM PLANT	1	27.0	-0.14708	WERE	JEFFREY	1	470.0	-0.0014	-0.14568	
ERE	BPU - CITY OF MCPHERS		1	79.0	-0.12699		JEFFREY	1	470.0	-0.0014	-0.12559	
ERE ERE	BPU - CITY OF MCPHERS BPU - CITY OF MCPHERS		1	51.0 52.0	-0.14708 -0.14708		JEFFREY JEFFREY	<u>1</u>	470.0 470.0	-0.0014 -0.0014	-0.14568 -0.14568	
ERE	BPU - CITY OF MCPHERS		1	50.0	-0.14708		JEFFREY	1	470.0	0.0094	-0.15648	
ERE	BPU - CITY OF MCPHERS	ON GAS TURBINE 1	1	51.0	-0.14708	WERE	JEFFREY	1	470.0	0.0094	-0.15648	
ERE	BPU - CITY OF MCPHERS		1	52.0	-0.14708		JEFFREY	1	470.0	0.0094	-0.15648	
ERE ERE	BPU - CITY OF MCPHERS BPU - CITY OF MCPHERS		1	27.0 79.0	-0.14708 -0.12699	WERE	JEFFREY JEFFREY	<u>1</u>	470.0 470.0	0.0094 0.0094	-0.15648 -0.13639	
ERE	BPU - CITY OF MCPHERS		1	79.0	-0.12699		JEFFREY	1	470.0	0.0094	-0.13639	
ERE	BPU - CITY OF MCPHERS		1	27.0	-0.14708		JEFFREY	1	470.0	0.0094	-0.15648	
ERE ERE	BPU - CITY OF MCPHERS BPU - CITY OF MCPHERS		1	50.0	-0.14708		JEFFREY JEFFREY	<u>1</u>	470.0 470.0	0.0094	-0.15648	
ERE	BPU - CITY OF MCPHERS		1	52.0 51.0	-0.14708 -0.14708		JEFFREY	1	470.0	0.0094	-0.15648 -0.15648	
ERE	BPU - CITY OF MCPHERS		1	27.0	-0.14708		LAWRENC	1	25.0	-0.00204	-0.14504	
ERE	BPU - CITY OF MCPHERS		1	50.0	-0.14708		LAWRENC	1	25.0	-0.00204	-0.14504	
ERE ERE	BPU - CITY OF MCPHERS BPU - CITY OF MCPHERS		1	52.0 51.0	-0.14708 -0.14708	WERE	LAWRENC LAWRENC	<u>1</u>	25.0 25.0	-0.00204 -0.00204	-0.14504 -0.14504	
RE	BPU - CITY OF MCPHERS		1	79.0	-0.12699		LAWRENC	1	25.0	-0.00204	-0.12495	
ERE	BPU - CITY OF MCPHERS		1	51.0	-0.14708		LAWRENC	1	60.0	-0.00205	-0.14503	
ERE	BPU - CITY OF MCPHERS		1	52.0	-0.14708		LAWRENC	<u>1</u>	60.0	-0.00205	-0.14503	
ERE ERE	BPU - CITY OF MCPHERS BPU - CITY OF MCPHERS		1	79.0 27.0	-0.12699 -0.14708		LAWRENC LAWRENC	1	60.0 60.0	-0.00205 -0.00205	-0.12494 -0.14503	
ERE	BPU - CITY OF MCPHERS		1	50.0	-0.14708		LAWRENC	1	60.0	-0.00205	-0.14503	
RE	BPU - CITY OF MCPHERS	ON GAS TURBINE 1	1	51.0	-0.14708	WERE	LAWRENC	1	228.9	-0.00202	-0.14506	
ERE ERE	BPU - CITY OF MCPHERS BPU - CITY OF MCPHERS		1	79.0 52.0	-0.12699 -0.14708		LAWRENC LAWRENC	<u>1</u>	228.9 228.9	-0.00202 -0.00202	-0.12497 -0.14506	\vdash
ERE	BPU - CITY OF MCPHERS		1	50.0	-0.14708		LAWRENC	1	228.9	-0.00202	-0.14506	
ERE	BPU - CITY OF MCPHERS	ON STEAM PLANT	1	27.0	-0.14708	WERE	LAWRENC	1	228.9	-0.00202	-0.14506	
ERE	BPU - CITY OF MCPHERS		1	27.0	-0.14708		TECUMSE	1	40.0	-0.00759	-0.13949	
ERE ERE	BPU - CITY OF MCPHERS BPU - CITY OF MCPHERS		1	50.0 52.0	-0.14708 -0.14708		TECUMSE TECUMSE	<u>1</u>	40.0 40.0	-0.00759 -0.00759	-0.13949 -0.13949	<u> </u>
ERE	BPU - CITY OF MCPHERS		1	51.0	-0.14708		TECUMSE	1	40.0	-0.00759	-0.13949	\vdash
ERE	BPU - CITY OF MCPHERS		1	51.0	-0.14708		TECUMSE	1	68.0	-0.00759	-0.13949	
ERE	BPU - CITY OF MCPHERS		1	50.0	-0.14708		TECUMSE	<u>1</u>	68.0	-0.00759	-0.13949	
ERE ERE	BPU - CITY OF MCPHERS BPU - CITY OF MCPHERS		1	27.0 52.0	-0.14708 -0.14708	WERE	TECUMSE TECUMSE	1	68.0 68.0	-0.00759 -0.00759	-0.13949 -0.13949	
RE	BPU - CITY OF MCPHERS		1	79.0	-0.12699		EVANS EN	1	195.0	-0.00004	-0.12695	
RE	BPU - CITY OF MCPHERS		1	51.0	-0.14708		EVANS EN	1	195.0	-0.00004	-0.14704	
ERE ERE	BPU - CITY OF MCPHERS BPU - CITY OF MCPHERS		1	52.0 50.0	-0.14708 -0.14708		EVANS EN	<u>1</u>	195.0	-0.00004 -0.00004	-0.14704	
ERE	BPU - CITY OF MCPHERS		1	27.0	-0.14708		EVANS EN	1	195.0 195.0	-0.00004	-0.14704 -0.14704	
ERE	BPU - CITY OF MCPHERS		1	52.0	-0.14708		WACO	1	18.0	-0.00074	-0.14634	
ERE	BPU - CITY OF MCPHERS		1	27.0	-0.14708		WACO	1	18.0		-0.14634	
ERE ERE	BPU - CITY OF MCPHERS BPU - CITY OF MCPHERS		1	79.0 50.0	-0.12699 -0.14708		WACO WACO	<u>1</u>	18.0 18.0		-0.12625 -0.14634	
ERE	BPU - CITY OF MCPHERS		1	51.0	-0.14708		WACO	1	18.0		-0.14634	
ERE	BPU - CITY OF MCPHERS	ON STEAM PLANT	1	27.0	-0.14708	WERE	CITY OF V	1	16.3	-0.00044	-0.14664	
ERE	BPU - CITY OF MCPHERS		1	79.0	-0.12699		CITY OF V	1 4	16.3	-0.00044	-0.12655	
ERE ERE	BPU - CITY OF MCPHERS BPU - CITY OF MCPHERS		1	50.0 52.0	-0.14708 -0.14708		CITY OF V	<u>1</u>	16.3 16.3	-0.00044 -0.00044	-0.14664 -0.14664	
ERE	BPU - CITY OF MCPHERS		1	51.0	-0.14708		CITY OF V	1	16.3	-0.00044	-0.14664	
ERE	BPU - CITY OF MCPHERS		1	52.0	-0.14708		CITY OF V	6	11.0	-0.00044	-0.14664	
ERE ERE	BPU - CITY OF MCPHERS BPU - CITY OF MCPHERS		1	27.0 51.0	-0.14708 -0.14708		CITY OF V	6	11.0 11.0	-0.00044 -0.00044	-0.14664 -0.14664	
ERE	BPU - CITY OF MCPHERS		1	79.0	-0.12699		CITY OF V	6	11.0	-0.00044	-0.12655	
ERE	BPU - CITY OF MCPHERS	ON GAS TURBINE 3	1	50.0	-0.14708	WERE	CITY OF V	6	11.0	-0.00044	-0.14664	
ERE	BPU - CITY OF MCPHERS		1	50.0		WERE	CITY OF V	1 4	26.3	-0.00029	-0.14679	
RE RE	BPU - CITY OF MCPHERS BPU - CITY OF MCPHERS		1	79.0 27.0	-0.12699 -0.14708		CITY OF V	<u>1</u>	26.3 26.3	-0.00029 -0.00029	-0.1267 -0.14679	
ERE	BPU - CITY OF MCPHERS		1	52.0	-0.14708		CITY OF V	1	26.3	-0.00029	-0.14679	
ERE	BPU - CITY OF MCPHERS		1	51.0		WERE	CITY OF V	1	26.3	-0.00029	-0.14679	
RE	BPU - CITY OF MCPHERS BPU - CITY OF MCPHERS		1	79.0	-0.12699		CITY OF V	T T	11.3	-0.00029	-0.1267	
ERE ERE	BPU - CITY OF MCPHERS		1	52.0 27.0	-0.14708 -0.14708		CITY OF V	÷	11.3 11.3	-0.00029 -0.00029	-0.14679 -0.14679	
ERE	BPU - CITY OF MCPHERS		1	51.0	-0.14708		CITY OF V	Ť	11.3	-0.00029	-0.14679	
ERE	BPU - CITY OF MCPHERS	ON GAS TURBINE 3	1	50.0	-0.14708	WERE	CITY OF V	Ţ	11.3	-0.00029	-0.14679	
ERE ERE	BPU - CITY OF MCPHERS BPU - CITY OF MCPHERS		1	50.0 51.0	-0.14708 -0.14708		CHANUTE CHANUTE	<u>1</u>	37.7 37.7	0.00012 0.00012	-0.1472 -0.1472	
RE	BPU - CITY OF MCPHERS		1	27.0	-0.14708		CHANUTE	1	37.7	0.00012	-0.1472	
RE	BPU - CITY OF MCPHERS	ON GAS TURBINE 2	1	52.0	-0.14708	WERE	CHANUTE	1	37.7	0.00012	-0.1472	
RE	BPU - CITY OF MCPHERS		1	79.0	-0.12699		CHANUTE	1	37.7	0.00012	-0.12711	
RE RE	BPU - CITY OF MCPHERS BPU - CITY OF MCPHERS		1	51.0 27.0	-0.14708 -0.14708		CITY OF E	<u>1</u>	20.0 20.0		-0.1472 -0.1472	
RE	BPU - CITY OF MCPHERS		1	79.0	-0.12699		CITY OF E	1	20.0		-0.12711	
ERE	BPU - CITY OF MCPHERS	ON GAS TURBINE 2	1	52.0	-0.14708	WERE	CITY OF E	1	20.0	0.00012	-0.1472	
RE	BPU - CITY OF MCPHERS		1	50.0	-0.14708		CITY OF E	1	20.0		-0.1472	
ERE ERE	BPU - CITY OF MCPHERS BPU - CITY OF MCPHERS		1	79.0 79.0	-0.12699 -0.12699		TECUMSE TECUMSE	<u>1</u>	40.0 68.0		-0.1194 -0.1194	
ERE	HUTCHINSON ENERGY C	ENTER UNIT 4	1	111.0	-0.07388	WERE	JEFFREY	1	470.0	0.0094	-0.08328	L
RE	HUTCHINSON ENERGY C	ENTER UNIT 3	1	31.0	-0.07373	WERE	JEFFREY	1	470.0	0.0094	-0.08313	
RE	HUTCHINSON ENERGY C HUTCHINSON ENERGY C		1	18.0 52.0	-0.07373		JEFFREY JEFFREY	<u>1</u>	470.0 470.0			_
RE RE	HUTCHINSON ENERGY C		1	52.0 18.0	-0.07373 -0.07373		JEFFREY	1	470.0			
RE	HUTCHINSON ENERGY C	ENTER GAS TURBINE 2	1	50.0	-0.07381	WERE	JEFFREY	1	470.0	0.0094	-0.08321	
RE	HUTCHINSON ENERGY C	ENTER GAS TURBINE 3	1	52.0	-0.07388		JEFFREY	1	470.0	0.0094	-0.08328	
ERE	HUTCHINSON ENERGY C HUTCHINSON ENERGY C		1	78.0 52.0	-0.07388		JEFFREY	<u>1</u>	470.0 470.0	0.0094		
RE RE	HUTCHINSON ENERGY C		1	52.0 18.0	-0.07373 -0.07373		JEFFREY JEFFREY	1	470.0	0.0094 0.0094		\vdash
RE	HUTCHINSON ENERGY C	ENTER UNIT 3	1	31.0	-0.07373		JEFFREY	1	470.0	0.0094		L
ERE	HUTCHINSON ENERGY C	ENTER UNIT 2	1	18.0	-0.07373	WERE	JEFFREY	1	470.0	0.0094	-0.08313	
ERE ERE	HUTCHINSON ENERGY C HUTCHINSON ENERGY C		1	111.0 50.0	-0.07388 -0.07381		JEFFREY JEFFREY	<u>1</u>	470.0 470.0	0.0094 0.0094		<u> </u>
ERE	HUTCHINSON ENERGY C		1	78.0	-0.07381		JEFFREY	1	470.0			
ERE	HUTCHINSON ENERGY C	ENTER GAS TURBINE 3	1	52.0	-0.07388	WERE	JEFFREY	1	470.0	0.0094	-0.08328	
ERE	HUTCHINSON ENERGY C	ENTER GAS TURBINE 1	1	52.0	-0.07373	WERE	JEFFREY	1	470.0	-0.0014	-0.07233	
ERE ERE	HUTCHINSON ENERGY C		1	18.0	-0.07373		JEFFREY	1 1	470.0	-0.0014		<u> </u>
	HUTCHINSON ENERGY C	LINIER UNII 3	1	31.0	-0.07373	WERE	JEFFREY	1	470.0	-0.0014	-0.07233	

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

<u>Table 6</u> - Potential Redispatch Relief Pairs to Prevent Deferral of Service

Upgrade: Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Wichita - Reno Co 345KV
NORTH AMERICAN PHILIPS - NORTH AMERICAN PHILIPS JUNCTION (SOUTH) 115KV CKT 1
From->To
EAST MCPHERSON - SUMMIT 230KV CKT 1
57372573741568725687312206SH
6/1/106 - 10/1/106, 6/1/07 - 10/1/107, 6/1/08 - 10/1/108, 6/1/09 - 10/1/09, & 6/1/10 - 10/1/10

| Agareaste

		Aggregate Relief	
Reservation	Relief Amount	Amount	
974662	0.4	0.9	
974988	0.5	0.9	
			1

Reservation	Relief Amount	Amount									
974662 974988	0.4 0.5	0.9									
07 1000	0.0	0.0	Maximum		Sink			Maximum			Redispatch
Source Control Area	Source	Source Id	Increment (MW)	GSF	Control Area	Sink	Sink Id	Decrement (MW)	GSF	Factor	Amount (MW)
WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	78.0	-0.42286	WERE	JEFFREY	1	470.0	0.03544	-0.4583	(10100)
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	50.0	-0.42253	WERE	JEFFREY	1	470.0	0.03544		2
WERE WERE	BPU - CITY OF MCPHERSON STEAM PLANT HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	27.0 52.0			JEFFREY JEFFREY	1	470.0 470.0	0.03544 0.03544		2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.53362		JEFFREY	1	470.0	0.03544	-0.56906	2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3 BPU - CITY OF MCPHERSON GAS TURBINE 3	1	52.0		WERE	JEFFREY	1	470.0 470.0	0.03544		2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	50.0 52.0			JEFFREY JEFFREY	1	470.0	0.03544 0.03544		2
WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	111.0	-0.42286	WERE	JEFFREY	1	470.0	0.03544	-0.4583	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4 HUTCHINSON ENERGY CENTER UNIT 3	1	79.0 31.0			JEFFREY JEFFREY	1	470.0 470.0	0.03544 0.03544		2
WERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0			JEFFREY	1	470.0	0.03544		2
WERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0			JEFFREY	1	470.0	0.03544		2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 4 BPU - CITY OF MCPHERSON STEAM PLANT	1	111.0 27.0	-0.42286 -0.53362	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.03662 0.03662		2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.42286	WERE	JEFFREY	1	470.0	0.03662	-0.45948	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4 BPU - CITY OF MCPHERSON GAS TURBINE 1	1	78.0 51.0	-0.42286 -0.53362	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.03662 0.03662		2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0			JEFFREY	1	470.0	0.03662		2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0			JEFFREY	1	470.0	0.03662		2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4 HUTCHINSON ENERGY CENTER UNIT 2	1	79.0 18.0			JEFFREY JEFFREY	1	470.0 470.0	0.03662 0.03662	-0.5582 -0.4588	2
WERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0	-0.42218	WERE	JEFFREY	1	470.0	0.03662	-0.4588	2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	50.0	-0.42253	WERE	JEFFREY	1	470.0 470.0	0.03662		2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1 HUTCHINSON ENERGY CENTER UNIT 3	1	52.0 31.0			JEFFREY JEFFREY	1	470.0	0.03662 0.03662	-0.45881 -0.4588	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.52158	WERE	JEFFREY	1	470.0	0.03662	-0.5582	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3 HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	52.0 78.0	-0.42286 -0.42286	WERE	JEFFREY JEFFREY	1	470.0 470.0	0.03662 0.03662		2
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0			JEFFREY	1	470.0	0.03662		2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.53362	WERE	JEFFREY	1	470.0	0.03662	-0.57024	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1 BPU - CITY OF MCPHERSON GAS TURBINE 2	1	51.0 52.0			JEFFREY JEFFREY	1	470.0 470.0	0.03662 0.03662		2
WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	111.0	-0.42286	WERE	JEFFREY	1	470.0	0.03662		2
WERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0			JEFFREY JEFFREY	1	470.0 470.0	0.03662	-0.4588	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 2 HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	18.0 50.0		WERE WERE	JEFFREY	1	470.0 470.0	0.03662 0.03662	-0.4588 -0.45915	2
WERE	HUTCHINSON ENERGY CENTER UNIT 3	1	31.0	-0.42218	WERE	JEFFREY	1	470.0	0.03662	-0.4588	2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1 BPU - CITY OF MCPHERSON GAS TURBINE 1	1	52.0 51.0			JEFFREY LAWRENC	1	470.0 25.0	0.03662 0.02172		2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0			LAWRENC	1	25.0	0.02172		2
WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	111.0	-0.42286	WERE	LAWRENC	1	25.0	0.02172	-0.44458	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2 HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0 52.0			LAWRENC	1	25.0 25.0	0.02172 0.02172		2
WERE	HUTCHINSON ENERGY CENTER GAS TORBINE 1	1	18.0			LAWRENC	1	25.0	0.02172		2
WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	78.0		WERE	LAWRENC	1	25.0	0.02172		2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2 HUTCHINSON ENERGY CENTER UNIT 3	1	50.0 31.0		WERE WERE	LAWRENC	1	25.0 25.0	0.02172 0.02172		2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.42286	WERE	LAWRENC	1	25.0	0.02172	-0.44458	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0			LAWRENC	1	25.0	0.02172		2
WERE WERE	BPU - CITY OF MCPHERSON STEAM PLANT HUTCHINSON ENERGY CENTER UNIT 1	1	27.0 18.0			LAWRENC	1	25.0 25.0	0.02172 0.02172		2
WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	78.0	-0.42286	WERE	LAWRENC	1	60.0	0.02173	-0.44459	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3 HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	52.0 50.0	-0.42286 -0.42253	WERE WERE	LAWRENC	1	60.0 60.0	0.02173 0.02173		2
WERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0			LAWRENC	1	60.0	0.02173		2
WERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0			LAWRENC	1	60.0	0.02173		2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 4 HUTCHINSON ENERGY CENTER UNIT 3	1	111.0 31.0		WERE WERE	LAWRENC	1	60.0 60.0	0.02173 0.02173		2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0			LAWRENC	1	60.0	0.02173	-0.44392	2
WERE	BPU - CITY OF MCPHERSON STEAM PLANT BPU - CITY OF MCPHERSON GAS TURBINE 4	1	27.0 79.0			LAWRENC	1	60.0 60.0	0.02173 0.02173		2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0			LAWRENC	1	60.0	0.02173		2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.53362	WERE	LAWRENC	1	60.0	0.02173	-0.55535	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2 HUTCHINSON ENERGY CENTER UNIT 4	1	52.0 111.0	-0.53362 -0.42286	WERE WERE	LAWRENC	1	60.0 228.9	0.02173 0.02272		2
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0			LAWRENC		228.9	0.02272		2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0			LAWRENC		228.9	0.02272		2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2 HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	50.0 52.0	-0.42253 -0.42219	WERE	LAWRENC	1	228.9 228.9	0.02272	-0.44525 -0.44491	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.53362	WERE	LAWRENC	1	228.9	0.02272	-0.55634	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2 HUTCHINSON ENERGY CENTER UNIT 3	1	52.0 31.0	-0.53362 -0.42218		LAWRENC	1	228.9 228.9	0.02272 0.02272		2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.42218		LAWRENC	1	228.9	0.02272		2
WERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0	-0.42218	WERE	LAWRENC	1	228.9	0.02272	-0.4449	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4 HUTCHINSON ENERGY CENTER UNIT 1	1	79.0 18.0			LAWRENC	1	228.9 228.9	0.02272 0.02272		2
WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	78.0	-0.42286	WERE	LAWRENC	1	228.9	0.02272	-0.44558	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.53362		TECUMSE	1	40.0	0.02643		2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3 BPU - CITY OF MCPHERSON GAS TURBINE 2	1	50.0 52.0	-0.53362 -0.53362		TECUMSE TECUMSE		40.0 40.0	0.02643 0.02643		2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.42286	WERE	TECUMSE	1	40.0	0.02643	-0.44929	2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2 BPU - CITY OF MCPHERSON STEAM PLANT	1	50.0 27.0			TECUMSE		40.0	0.02643		2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	27.0 78.0	-0.53362 -0.42286		TECUMSE TECUMSE		40.0 40.0	0.02643 0.02643		2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0	-0.42219	WERE	TECUMSE	1	40.0	0.02643	-0.44862	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 1 HUTCHINSON ENERGY CENTER UNIT 2	1	18.0 18.0			TECUMSE TECUMSE		40.0 40.0	0.02643 0.02643		2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.42218		TECUMSE		40.0	0.02643	-0.54801	2
WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	111.0	-0.42286	WERE	TECUMSE	1	40.0	0.02643	-0.44929	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 3 BPU - CITY OF MCPHERSON GAS TURBINE 1	1	31.0 51.0	-0.42218 -0.53362		TECUMSE TECUMSE		40.0 68.0	0.02643 0.02643		2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.42286	WERE	TECUMSE	1	68.0	0.02643	-0.44929	2
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.53362		TECUMSE		68.0	0.02643		2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 1 HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	18.0 52.0	-0.42218 -0.42219		TECUMSE TECUMSE		68.0 68.0	0.02643 0.02643		2
WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	78.0	-0.42286	WERE	TECUMSE	1	68.0	0.02643	-0.44929	2
					IMEDE	TECUMSE	1	68.0	0.02643	-0.56005	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.53362							
	BPU - CITY OF MCPHERSON GAS TURBINE 2 HUTCHINSON ENERGY CENTER UNIT 2 HUTCHINSON ENERGY CENTER UNIT 3	1 1	52.0 18.0 31.0	-0.42218	WERE	TECUMSE	1	68.0 68.0	0.02643 0.02643	-0.44861	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

<u>Table 6</u> - Potential Redispatch Relief Pairs to Prevent Deferral of Service

Wichita - Reno Co 345KV
NORTH AMERICAN PHILIPS JUNCTION (SOUTH) - WEST MCPHERSON 115KV CKT 2
From->To
EAST MCPHERSON - SUMMIT 230KV CKT 1
57374574382568725687312206SH
6/1/06 - 10/1/06, 6/1/07 - 10/1/07, 6/1/08 - 10/1/08, 6/1/09 - 10/1/09, & 6/1/10 - 10/1/10

Upgrade: Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed:

Reservation	Relief Amount	Aggregate Relief Amount
974662	0.2	0.5
974988	0.3	0.5

Reservation	Relief Amount	Amount									
974662 974988	0.2 0.3	0.5 0.5									
011000	0.0	0.0	Maximum		Sink			Maximum			Redispatch
Source Control Area	Source	Source Id	Increment (MW)	GSF	Control Area	Sink	Sink Id	Decrement (MW)	GSF	Factor	Amount (MW)
WERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0	-0.22586	WERE	JEFFREY	1	470.0	0.01896	-0.24482	(10100)
WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	111.0	-0.22622	WERE	JEFFREY	1	470.0	0.01896	-0.24518	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 1 BPU - CITY OF MCPHERSON GAS TURBINE 2	1	18.0 52.0	-0.22586 -0.28547	WERE WERE	JEFFREY JEFFREY	<u>1</u>	470.0 470.0	0.01896 0.01896	-0.24482 -0.30443	2
WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	78.0	-0.22621	WERE	JEFFREY	1	470.0	0.01896	-0.24517	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.28547	WERE	JEFFREY	1	470.0 470.0	0.01896	-0.30443	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2 BPU - CITY OF MCPHERSON GAS TURBINE 1	1	50.0 51.0	-0.22604 -0.28547	WERE WERE	JEFFREY JEFFREY	1 1	470.0	0.01896 0.01896	-0.245 -0.30443	2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0	-0.22586	WERE	JEFFREY	1	470.0	0.01896	-0.24482	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3 BPU - CITY OF MCPHERSON STEAM PLANT	1	52.0 27.0	-0.22621 -0.28547	WERE WERE	JEFFREY JEFFREY	<u>1</u>	470.0 470.0	0.01896 0.01896	-0.24517 -0.30443	2
WERE	HUTCHINSON ENERGY CENTER UNIT 3	1	31.0	-0.22586	WERE	JEFFREY	1	470.0	0.01896	-0.24482	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.27903	WERE	JEFFREY	1	470.0	0.01896	-0.29799	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4 HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	78.0 50.0	-0.22621 -0.22604	WERE WERE	JEFFREY JEFFREY	<u>1</u>	470.0 470.0	0.01959 0.01959	-0.2458 -0.24563	2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.22621	WERE	JEFFREY	1	470.0	0.01959	-0.2458	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 4 HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	111.0 52.0	-0.22622 -0.22586	WERE WERE	JEFFREY JEFFREY	<u>1</u>	470.0 470.0	0.01959 0.01959	-0.24581 -0.24545	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.28547	WERE	JEFFREY	1	470.0	0.01959	-0.30506	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.27903	WERE	JEFFREY	1	470.0	0.01959	-0.29862	2
WERE WERE	BPU - CITY OF MCPHERSON STEAM PLANT HUTCHINSON ENERGY CENTER UNIT 2	1	27.0 18.0	-0.28547 -0.22586	WERE WERE	JEFFREY JEFFREY	<u>1</u>	470.0 470.0	0.01959 0.01959	-0.30506 -0.24545	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.28547	WERE	JEFFREY	1	470.0	0.01959	-0.30506	2
WERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0	-0.22586	WERE	JEFFREY	1 1	470.0	0.01959	-0.24545	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2 HUTCHINSON ENERGY CENTER UNIT 3	1	52.0 31.0	-0.28547 -0.22586	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01959 0.01959	-0.30506 -0.24545	2
WERE	HUTCHINSON ENERGY CENTER UNIT 3	1	31.0	-0.22586	WERE	JEFFREY	1	470.0	0.01959	-0.24545	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3 HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	50.0 52.0	-0.28547 -0.22586	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01959 0.01959	-0.30506 -0.24545	2
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.28547	WERE	JEFFREY	1	470.0	0.01959	-0.30506	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.27903	WERE	JEFFREY	1	470.0	0.01959	-0.29862	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2 HUTCHINSON ENERGY CENTER UNIT 1	1	50.0 18.0	-0.22604 -0.22586	WERE WERE	JEFFREY JEFFREY	<u>1</u>	470.0 470.0	0.01959 0.01959	-0.24563 -0.24545	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.28547	WERE	JEFFREY	1	470.0	0.01959	-0.30506	2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3 HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	52.0	-0.22621	WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01959	-0.2458	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4 HUTCHINSON ENERGY CENTER UNIT 4	1	78.0 111.0	-0.22621 -0.22622	WERE WERE	JEFFREY	1	470.0	0.01959 0.01959	-0.2458 -0.24581	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.28547	WERE	JEFFREY	1	470.0	0.01959	-0.30506	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 2 HUTCHINSON ENERGY CENTER UNIT 2	1	18.0 18.0	-0.22586 -0.22586	WERE WERE	JEFFREY LAWRENC	<u>1</u>	470.0 25.0	0.01959 0.01162	-0.24545 -0.23748	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.22566	WERE	LAWRENC	1	25.0	0.01162	-0.29709	2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	50.0	-0.22604	WERE	LAWRENC	1	25.0	0.01162	-0.23766	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3 HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0 52.0	-0.22621 -0.22586	WERE WERE	LAWRENC LAWRENC	<u>1</u>	25.0 25.0	0.01162 0.01162	-0.23783 -0.23748	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.28547	WERE	LAWRENC	1	25.0	0.01162	-0.29709	2
WERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0	-0.22586	WERE	LAWRENC	1	25.0	0.01162	-0.23748	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4 BPU - CITY OF MCPHERSON STEAM PLANT	1	79.0 27.0	-0.27903 -0.28547	WERE WERE	LAWRENC LAWRENC	<u>1</u>	25.0 25.0	0.01162 0.01162	-0.29065 -0.29709	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.28547	WERE	LAWRENC	1	25.0	0.01162	-0.29709	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 3 HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	31.0 78.0	-0.22586 -0.22621	WERE WERE	LAWRENC LAWRENC	<u>1</u>	25.0 25.0	0.01162 0.01162	-0.23748 -0.23783	2
WERE	HUTCHINSON ENERGY CENTER GAS TROBINE 4	1	111.0	-0.22622	WERE	LAWRENC	1	25.0	0.01162	-0.23784	2
WERE	HUTCHINSON ENERGY CENTER UNIT 3	1	31.0	-0.22586	WERE	LAWRENC	1	60.0	0.01162	-0.23748	2
WERE WERE	BPU - CITY OF MCPHERSON STEAM PLANT BPU - CITY OF MCPHERSON GAS TURBINE 3	1	27.0 50.0	-0.28547 -0.28547	WERE WERE	LAWRENC LAWRENC	<u>1</u>	60.0 60.0	0.01162 0.01162	-0.29709 -0.29709	2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0	-0.22586	WERE	LAWRENC	1	60.0	0.01162	-0.23748	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4 HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	79.0 78.0	-0.27903 -0.22621	WERE WERE	LAWRENC LAWRENC	<u>1</u>	60.0 60.0	0.01162 0.01162	-0.29065 -0.23783	2
WERE	HUTCHINSON ENERGY CENTER GAS TROBINE 4	1	111.0	-0.22622	WERE	LAWRENC	1	60.0	0.01162	-0.23784	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.28547	WERE	LAWRENC	1	60.0	0.01162	-0.29709	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 1 HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	18.0 52.0	-0.22586 -0.22621	WERE WERE	LAWRENC LAWRENC	<u>1</u>	60.0 60.0	0.01162 0.01162	-0.23748 -0.23783	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.28547	WERE	LAWRENC	1	60.0	0.01162	-0.29709	2
WERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0	-0.22586	WERE	LAWRENC	1	60.0	0.01162	-0.23748	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2 BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0 50.0	-0.22604 -0.28547	WERE WERE	LAWRENC LAWRENC	1 1	60.0 228.9	0.01162 0.01215	-0.23766 -0.29762	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.27903	WERE	LAWRENC	1	228.9	0.01215	-0.29118	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 2 HUTCHINSON ENERGY CENTER UNIT 1	1 1	18.0 18.0	-0.22586 -0.22586	WERE	LAWRENC	1	228.9	0.01215	-0.23801 -0.23801	2
WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	111.0	-0.22622	WERE	LAWRENC	1	228.9	0.01215	-0.23837	2
WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	78.0	-0.22621	WERE	LAWRENC	1	228.9	0.01215	-0.23836	2
WERE WERE	BPU - CITY OF MCPHERSON STEAM PLANT HUTCHINSON ENERGY CENTER UNIT 3	1	27.0 31.0	-0.28547 -0.22586	WERE WERE	LAWRENC LAWRENC	1 1	228.9 228.9	0.01215 0.01215	-0.29762 -0.23801	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.28547	WERE	LAWRENC	1	228.9	0.01215	-0.29762	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1 HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	51.0	-0.28547	WERE WERE	LAWRENC LAWRENC	1	228.9 228.9	0.01215	-0.29762	2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	50.0 52.0	-0.22604 -0.22586	WERE	LAWRENC	1	228.9	0.01215 0.01215	-0.23819 -0.23801	2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.22621	WERE	LAWRENC	1	228.9	0.01215	-0.23836	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3 BPU - CITY OF MCPHERSON GAS TURBINE 3	1	52.0 50.0	-0.22621 -0.28547	WERE WERE	TECUMSE TECUMSE	1	40.0 40.0	0.01414 0.01414	-0.24035 -0.29961	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.28547	WERE	TECUMSE	1	40.0	0.01414	-0.29961	2
WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	111.0	-0.22622	WERE	TECUMSE	1	40.0	0.01414	-0.24036	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2 HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	52.0 50.0	-0.28547 -0.22604	WERE WERE	TECUMSE TECUMSE	<u>1</u> 1	40.0 40.0	0.01414 0.01414	-0.29961 -0.24018	2
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.28547	WERE	TECUMSE	1	40.0	0.01414	-0.29961	2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1 BPU - CITY OF MCPHERSON GAS TURBINE 4	1	52.0	-0.22586	WERE	TECUMSE	1	40.0	0.01414	-0.24	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	79.0 78.0	-0.27903 -0.22621	WERE WERE	TECUMSE TECUMSE	1	40.0 40.0	0.01414 0.01414	-0.29317 -0.24035	2
WERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0	-0.22586	WERE	TECUMSE	1	40.0	0.01414	-0.24	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 3 HUTCHINSON ENERGY CENTER UNIT 1	1	31.0 18.0	-0.22586 -0.22586	WERE WERE	TECUMSE TECUMSE	1	40.0 40.0	0.01414 0.01414	-0.24 -0.24	2
WERE	HUTCHINSON ENERGY CENTER UNIT 1 HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	78.0	-0.22621	WERE	TECUMSE	1	68.0	0.01414	-0.24035	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.28547	WERE	TECUMSE	1	68.0	0.01414	-0.29961	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3 BPU - CITY OF MCPHERSON GAS TURBINE 3	1	52.0 50.0	-0.22621 -0.28547	WERE WERE	TECUMSE TECUMSE	1	68.0 68.0	0.01414 0.01414	-0.24035 -0.29961	2
WERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0	-0.22586		TECUMSE	1	68.0	0.01414	-0.29961	2
WERE	HUTCHINSON ENERGY CENTER UNIT 3	1	31.0	-0.22586	WERE	TECUMSE	1	68.0	0.01414	-0.24	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1 HUTCHINSON ENERGY CENTER UNIT 4	1	51.0 111.0	-0.28547 -0.22622		TECUMSE TECUMSE	1 1	68.0 68.0	0.01414 0.01414	-0.29961 -0.24036	2
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.28547	WERE	TECUMSE	1	68.0	0.01414	-0.29961	2
	aximum Increment were determine from the Souce and	Sink Opera					cility was ic				

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

 $\underline{\textbf{Table 6}} \text{ - Potential Redispatch Relief Pairs to Prevent Deferral of Service}$

Wichita - Reno Co 345KV
EXIDE JUNCTION - SUMMIT 115KV CKT 1
To->From
NORTHYIEW - SUMMIT 115KV CKT 1
57368573811573715738112206SH
6/1/06 - 10/1/06, 6/1/07 - 10/1/07, 6/1/08 - 10/1/08, 6/1/09 - 10/1/09, & 6/1/10 - 10/1/10 Upgrade: Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed:

		Aggregate	1
		Relief	
Reservation	Relief Amount	Amount	
974561	9.4	9.5	1
974662	0.1	9.5	1
974988	0.1	9.5	1
			Ma

974561	9.4	9.5									
974662 974988	0.1 0.1	9.5 9.5									
974988	0.1	9.5	Maximum		Sink			Maximum			Redispatch
			Increment		Control			Decrement			Amount
Source Control Area	Source	Source Id	(MW)	GSF	Area	Sink	Sink Id	(MW)	GSF	Factor	(MW)
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1 BPU - CITY OF MCPHERSON GAS TURBINE 2	1	51.0 52.0	-0.19045 -0.19045	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01145 0.01145	-0.2019 -0.2019	47
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	50.0	-0.19045	WERE	JEFFREY	1	470.0	0.01145	-0.2019	47
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.19045	WERE	JEFFREY	1	470.0	0.01145	-0.2019	47
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.19045	WERE	JEFFREY	1	470.0	0.01145	-0.2019	47
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.19045	WERE	JEFFREY	1	470.0	0.01145	-0.2019	47
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.19045	WERE	JEFFREY	1 1	470.0	0.01145	-0.2019	47
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1 BPU - CITY OF MCPHERSON GAS TURBINE 2	1	51.0 52.0	-0.19045 -0.19045	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01145	-0.2019 -0.1911	47 50
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.19045	WERE	JEFFREY	<u>i</u>	470.0	0.00065	-0.1911	50
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.19045	WERE	JEFFREY	1	470.0	0.00065	-0.1911	50
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.19045	WERE	JEFFREY	1	470.0	0.00065	-0.1911	50
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.19045	WERE	LAWRENC	1	25.0	-0.00079	-0.18966	50
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3 BPU - CITY OF MCPHERSON GAS TURBINE 1	1	50.0 51.0	-0.19045 -0.19045	WERE WERE	LAWRENC LAWRENC	1 1	25.0 25.0	-0.00079 -0.00079	-0.18966 -0.18966	50 50
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.19045	WERE	LAWRENC	<u>i</u>	25.0	-0.00079	-0.18966	50
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.19045	WERE	LAWRENC	1	60.0	-0.0008	-0.18965	50
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.19045	WERE	LAWRENC	1	60.0	-0.0008	-0.18965	50
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.19045	WERE	LAWRENC	1	60.0	-0.0008	-0.18965	50 50
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1 BPU - CITY OF MCPHERSON GAS TURBINE 2	1	51.0 52.0	-0.19045 -0.19045	WERE WERE	LAWRENC LAWRENC	1	60.0 228.9	-0.0008 -0.00071	-0.18965 -0.18974	50
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.19045	WERE	LAWRENC	1	228.9	-0.00071	-0.18974	50
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.19045	WERE	LAWRENC	1	228.9	-0.00071	-0.18974	50
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.19045	WERE	LAWRENC	1	228.9	-0.00071	-0.18974	50
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.19045	WERE	EVANS EN	1 1	195.0	-0.00003	-0.19042	50
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1 BPU - CITY OF MCPHERSON GAS TURBINE 3	1	51.0 50.0	-0.19045 -0.19045	WERE WERE	EVANS EN	1	195.0 195.0	-0.00003 -0.00003	-0.19042 -0.19042	50 50
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.19045	WERE	EVANS EN	1	195.0	-0.00003	-0.19042	50
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.19045	WERE	WACO	1	18.0	-0.00106	-0.18939	50
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.19045	WERE	WACO	1	18.0	-0.00106	-0.18939	50
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.19045	WERE	WACO	1 1	18.0	-0.00106	-0.18939	50
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2 BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0 52.0	-0.19045 -0.19045	WERE WERE	WACO TECUMSE	1	18.0 40.0	-0.00106 -0.00603	-0.18939 -0.18442	50 52
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.19045	WERE	TECUMSE	1	40.0	-0.00603	-0.18442	52
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.19045	WERE	TECUMSE	1	40.0	-0.00603	-0.18442	52
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.19045	WERE	TECUMSE	1	40.0	-0.00603	-0.18442	52
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.19045	WERE	TECUMSE	1	68.0	-0.00603	-0.18442	52
WERE WERE	BPU - CITY OF MCPHERSON STEAM PLANT BPU - CITY OF MCPHERSON GAS TURBINE 1	1	27.0 51.0	-0.19045 -0.19045	WERE WERE	TECUMSE TECUMSE	1	68.0 68.0	-0.00603 -0.00603	-0.18442 -0.18442	52 52
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.19045	WERE	TECUMSE	- i	68.0	-0.00603	-0.18442	52
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.16638	WERE	JEFFREY	1	470.0	0.01145	-0.17783	54
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.16638	WERE	JEFFREY	1	470.0	0.01145	-0.17783	54
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.16638	WERE	JEFFREY	1	470.0	0.00065	-0.16703	57
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4 BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0 79.0	-0.16638 -0.16638	WERE WERE	EVANS EN LAWRENC	1 1	195.0 25.0	-0.00003 -0.00079	-0.16635 -0.16559	57 58
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.16638	WERE	LAWRENC	<u>i</u>	60.0	-0.0008	-0.16558	58
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.16638	WERE	LAWRENC	1	228.9	-0.00071	-0.16567	58
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.16638	WERE	TECUMSE	1	40.0	-0.00603	-0.16035	60
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.16638	WERE	TECUMSE	1 1	68.0	-0.00603	-0.16035	60
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 3 HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	31.0 78.0	-0.10063 -0.10083	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01145 0.01145	-0.11208 -0.11228	85 85
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0	-0.10063	WERE	JEFFREY	1	470.0	0.01145	-0.11208	85
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.10083	WERE	JEFFREY	1	470.0	0.01145	-0.11228	85
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	50.0	-0.10074	WERE	JEFFREY	11	470.0	0.01145	-0.11219	85
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 4 HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	111.0 78.0	-0.10083 -0.10083	WERE WERE	JEFFREY JEFFREY	1 1	470.0 470.0	0.01145 0.01145	-0.11228 -0.11228	85 85
WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	111.0	-0.10083	WERE	JEFFREY	1	470.0	0.01145	-0.11228	85
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	50.0	-0.10074	WERE	JEFFREY	1	470.0	0.01145	-0.11219	85
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.10083	WERE	JEFFREY	1	470.0	0.01145	-0.11228	85
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0	-0.10063	WERE	JEFFREY	1	470.0	0.01145	-0.11208	85
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 3 HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	31.0 52.0	-0.10063 -0.10063	WERE WERE	JEFFREY JEFFREY	1 1	470.0 470.0	0.01145	-0.11208 -0.10128	85 94
WERE	HUTCHINSON ENERGY CENTER GAS TORBINE T	1	111.0	-0.10063	WERE	JEFFREY	1	470.0	0.00065	-0.10128	94
WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	78.0	-0.10083	WERE	JEFFREY	1	470.0	0.00065	-0.10148	94
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.10083	WERE	JEFFREY	1	470.0	0.00065	-0.10148	94
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2 HUTCHINSON ENERGY CENTER UNIT 4	1	50.0	-0.10074	WERE	JEFFREY	1 1	470.0	0.00065	-0.10139	94
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 4 HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	111.0 52.0	-0.10083 -0.10083	WERE WERE	LAWRENC LAWRENC	1	60.0 60.0	-0.0008 -0.0008	-0.10003 -0.10003	95 95
WERE	HUTCHINSON ENERGY CENTER GAS TORBINE 4	 i	78.0	-0.10083		LAWRENC	1	60.0	-0.0008	-0.10003	95
WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	78.0	-0.10083	WERE	LAWRENC	1	228.9	-0.00071	-0.10012	95
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.10083	WERE	LAWRENC	1	228.9	-0.00071	-0.10012	95
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2 HUTCHINSON ENERGY CENTER UNIT 4	1	50.0	-0.10074 -0.10083	WERE	LAWRENC LAWRENC	1	228.9	-0.00071 -0.00071	-0.10003 -0.10012	95 95
WERE	HUTCHINSON ENERGY CENTER UNIT 4 HUTCHINSON ENERGY CENTER UNIT 4	1	111.0 111.0	-0.10083	WERE WERE	EVANS EN	1	228.9 195.0	-0.00071	-0.10012	95 95
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0	-0.10063	WERE	EVANS EN	1	195.0	-0.00003	-0.1006	95
WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	78.0	-0.10083	WERE	EVANS EN	1	195.0	-0.00003	-0.1008	95
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.10083	WERE	EVANS EN	1	195.0	-0.00003	-0.1008	95
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2 HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	50.0	-0.10074 -0.10063	WERE	EVANS EN	1 1	195.0	-0.00003	-0.10071	95
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1 HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	52.0 50.0	-0.10063 -0.10074	WERE WERE	LAWRENC LAWRENC	1	60.0 60.0	-0.0008 -0.0008	-0.09983 -0.09994	96
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0	-0.10074	WERE	LAWRENC	1	228.9	-0.00071	-0.09992	96
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	50.0	-0.10074	WERE	TECUMSE	1	40.0	-0.00603	-0.09471	101
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.10083	WERE	TECUMSE	1	40.0	-0.00603	-0.0948	101
WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	111.0	-0.10083	WERE	TECUMSE	1	40.0	-0.00603	-0.0948	101
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1 HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	52.0 78.0	-0.10063 -0.10083	WERE WERE	TECUMSE TECUMSE	1 1	40.0 40.0	-0.00603 -0.00603	-0.0946 -0.0948	101 101
WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 1	1	78.0 52.0	-0.10083	WERE	TECUMSE	1	68.0	-0.00603	-0.0948	10
WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	111.0	-0.10083	WERE	TECUMSE	1	68.0	-0.00603	-0.0948	101
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	50.0	-0.10074	WERE	TECUMSE	1	68.0	-0.00603	-0.09471	101
WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	78.0		WERE	TECUMSE	1	68.0	-0.00603	-0.0948	101
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3 BPU - CITY OF MCPHERSON GAS TURBINE 1	1	52.0 51.0	-0.10083 -0.19045	WERE WERE	TECUMSE HUTCHINS	1 1	68.0 40.0	-0.00603 -0.10083	-0.0948 -0.08962	101 107
** - 1 \ -	BPU - CITY OF MCPHERSON GAS TURBINE 1	1		-0.19045		HUTCHIN	1	40.0	-0.10083		107
WERE		1	52.0							-U.U8967	
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2 BPU - CITY OF MCPHERSON GAS TURBINE 3	1	52.0 50.0	-0.19045		HUTCHINS	1	40.0	-0.10083	-0.08962 -0.08962	10

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

 $\underline{\textbf{Table 6}} \text{ - Potential Redispatch Relief Pairs to Prevent Deferral of Service}$

Upgrade: Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Wichita - Reno Co 345KV NORTHVIEW - SUMMIT 115KV CKT 1 To--From EXIDE JUNCTION - SUMMIT 115KV CKT 1 57371573811573685738112206SH 6/1/06 - 10/1/06, 6/1/07 - 10/1/07, 6/1/08 - 10/1/08, 6/1/09 - 10/1/09, & 6/1/10 - 10/1/10

		Aggregate	
		Relief	
Reservation	Relief Amount	Amount	
974561	6.0	6.1	
974988	0.1	6.1	

Processor Proc	Reservation	Relief Amount	Amount									
Source Control Aces	974561	6.0	6.1	-								
Source Count Associated Source So	374300	0.1	0.1	Maximum		Sink			Maximum			Redispatch
Dec	0 0 1 14				005	00111101	0: 1	0: 1 11		005		Amount
Color			Source Id				•	Sink la				(MW) 3
MARCH MPL DITY OF MCPHESON DISTRICT 1. 270	WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.14708	WERE	JEFFREY	1	470.0		-0.15648	3
APPLICATION CAMPRISON OF A TRANSPER PROPERTY 1												3
APPLICATION OF MACRISON DESIGNATION 1												3
NOTE SPUCIFIC OF LINES SENS SERVED NAME 270	VERE	BPU - CITY OF MCPHERSON GAS TURBINE 1		51.0	-0.14708	WERE	JEFFREY	1		0.0094	-0.15648	3
APPENDED PROCESS PROCESS CONTROL 1								1				3
APPENDED PROCESS PROCESS TABLES 1 1 1 1 1 1 1 1 1								1				4
WARD PRICE OF TO SEPHEROLIS STEAD PLANT 1 270 0 4470 WERE WASSEN 1 100 0.00000 0.1100 WERE WASSEN WASSE								1				4
WASTER SPUI_CITY OF MEPHERSON ORS TURBREY 1 200 0.1479 WERE 200 0.1180 0.00004 0.1464 0.								1				4
WARE	WERE							1				4
WARE SPU_CITY OF MEMPERSON GAS TURBERS 1 500 0.1470 WERE 200 0.00000 0.1480 0.000000 0.1480 0.000000 0.1480 0.00000 0.								1				4
WERE BULL CHTY OF MEMPERSON GAS THERME 3 1 500 0.14700 WERE CONT. OF \$1,000 0.00020 0.1470 WERE BULL CHTY OF MEMBERSON GAS THEMSELS 2 1 500 0.14700 WERE CONT. OF \$1,000 0.00020 0.1470 WERE BULL CHTY OF MEMBERSON GAS THEMSELS 2 1 520 0.14700 WERE BULL CHTY OF MEMBERSON GAS THEMSE								1				4
WERE	VERE	BPU - CITY OF MCPHERSON GAS TURBINE 3		50.0	-0.14708	WERE	CITY OF E	1	20.0	0.00012	-0.1472	4
WERE								1				4
WERE								1				4
OFFICE SPLICITY OF MCHESON GAS TURBING 1 51.0 0.1070 WERE METREY 1 470.0 2.0014 0.1688 WERE SPLICITY OF MCHESON GAS TURBING 1 52.0 0.1070 WERE METREY 1 470.0 2.0014 0.1688 WERE SPLICITY OF MCHESON GAS TURBING 1 50.0 0.1070 WERE METREY 1 470.0 2.0014 0.1688 WERE SPLICITY OF MCHESON GAS TURBING 1 50.0 0.1070 WERE METAL	VERE	BPU - CITY OF MCPHERSON GAS TURBINE 2			-0.14708	WERE	JEFFREY	1	470.0	-0.0014	-0.14568	4.
OWNER								1				4.
WATER BPU-CITY OF MCPHERSON GAS TURBINE 2 1 50.0 0.1470 WATER LAWRENG 2.00 0.00000 -0.1400 WATER CAWRENG 2.00 0.00000 -0.1400 WATER CAWRENG 2.00000 -0.1400 WATER 2.00000								1				4
WERE								1				4
WERE								1				4.
WERE	VERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.14708	WERE	LAWRENC	1	25.0	-0.00204	-0.14504	4.
WERE BPU_CITY OF MCPHERSON GAS TURBINE 1								1				4.
WERE BPU_CITY OF MCPHERSON GAS TURBINE 2 1 5.0 0.1476/WERE LAWREND 1 20.0 0.00005 0.14600 WERE BPU_CITY OF MCPHERSON GAS TURBINE 2 1 5.0 0.1476/WERE LAWREND 1 2226 0.00002 0.14600 WERE BPU_CITY OF MCPHERSON GAS TURBINE 2 1 9.0 0.0 0.4476/WERE LAWREND 1 2226 0.00002 0.14600 WERE BPU_CITY OF MCPHERSON GAS TURBINE 2 1 9.0 0.0 0.4476/WERE LAWREND 1 2226 0.00002 0.14600 WERE BPU_CITY OF MCPHERSON GAS TURBINE 2 1 9.0 0.0 0.4766/WERE LAWREND 1 2226 0.00002 0.14600 WERE BPU_CITY OF MCPHERSON GAS TURBINE 2 1 9.0 0.0 0.00004 0.1760/WERE LAWREND 1 0.0 0.00009 0.13400 WERE BPU_CITY OF MCPHERSON GAS TURBINE 2 1 9.0 0.0 0.00004 0.1760/WERE TECUMSS 1 1 40.0 0.00009 0.13400 WERE BPU_CITY OF MCPHERSON GAS TURBINE 1 1 27.0 0.0 0.00004 0.1760/WERE BPU_CITY OF MCPHERSON GAS TURBINE 1 1 5.0 0.0 1.4760/WERE TECUMSS 1 1 40.0 0.00009 0.13400 WERE BPU_CITY OF MCPHERSON GAS TURBINE 1 1 5.0 0.0 1.4760/WERE TECUMSS 1 1 40.0 0.00009 0.13400 WERE BPU_CITY OF MCPHERSON GAS TURBINE 2 1 5.0 0.0 1.4760/WERE TECUMSS 1 1 40.0 0.00009 0.13400 WERE BPU_CITY OF MCPHERSON GAS TURBINE 2 1 5.0 0.0 1.4760/WERE TECUMSS 1 1 40.0 0.00009 0.13400 WERE BPU_CITY OF MCPHERSON GAS TURBINE 2 1 5.0 0.0 1.4760/WERE TECUMSS 1 1 40.0 0.00009 0.13400 WERE BPU_CITY OF MCPHERSON GAS TURBINE 2 1 5.0 0.0 1.4760/WERE TECUMSS 1 1 40.0 0.00009 0.13400 WERE BPU_CITY OF MCPHERSON GAS TURBINE 2 1 5.0 0.0 1.4760/WERE TECUMSS 1 1 40.0 0.00009 0.13400 WERE BPU_CITY OF MCPHERSON GAS TURBINE 2 1 5.0 0.0 1.4760/WERE TECUMSS 1 1 40.0 0.00009 0.13400 WERE BPU_CITY OF MCPHERSON GAS TURBINE 2 1 5.0 0.0 1.4760/WERE TECUMSS 1 1 40.0 0.00009 0.13400 WERE BPU_CITY OF MCPHERSON GAS TURBINE 4 1 70.0 0.0 1.2000/WERE JEFFREY 1 4 470.0 0.0004 0.13500 WERE BPU_CITY OF MCPHERSON GAS TURBINE 4 1 70.0 0.12000/WERE JEFFREY 1 4 470.0 0.0004 0.13500 WERE BPU_CITY OF MCPHERSON GAS TURBINE 4 1 70.0 0.12000/WERE JEFFREY 1 4 470.0 0.0004 0.13500 WERE BPU_CITY OF MCPHERSON GAS TURBINE 4 1 70.0 0.12000/WERE JEFFREY 1 4 470.0 0.00004 0.03500 WERE BPU_CITY OF MCPHERSON GAS TURBINE 4 1 70.0 0.12000/WERE JEFFREY								1				4.
WERE BPU_CITY OF MCPHERSON GAS TURBINE 3 1 50.0 0.14769WERE (WARRY) 1 2289 0.00002 0.1400 WERE BPU_CITY OF MCPHERSON GAS TURBINE 3 1 50.0 0.14769WERE (WARRY) 1 2280 0.00002 0.1400 WERE BPU_CITY OF MCPHERSON GAS TURBINE 2 1 50.0 0.14769WERE (ELLINS) 1 440 0.00078 0.1580 WERE BPU_CITY OF MCPHERSON GAS TURBINE 3 1 50.0 0.14769WERE (ELLINS) 1 440 0.00078 0.1580 WERE BPU_CITY OF MCPHERSON GAS TURBINE 3 1 50.0 0.14769WERE (ELLINS) 1 440 0.00078 0.1580 WERE BPU_CITY OF MCPHERSON GAS TURBINE 3 1 50.0 0.14769WERE (ELLINS) 1 440 0.00078 0.1580 WERE BPU_CITY OF MCPHERSON GAS TURBINE 3 1 50.0 0.14769WERE (ELLINS) 1 440 0.00078 0.1580 WERE BPU_CITY OF MCPHERSON GAS TURBINE 3 1 50.0 0.14769WERE (ELLINS) 1 440 0.00079 0.1580 WERE BPU_CITY OF MCPHERSON GAS TURBINE 3 1 50.0 0.14769WERE (ELLINS) 1 440 0.00079 0.1580 WERE BPU_CITY OF MCPHERSON GAS TURBINE 3 1 50.0 0.14769WERE (ELLINS) 1 460 0.00079 0.1580 WERE BPU_CITY OF MCPHERSON GAS TURBINE 3 1 50.0 0.14769WERE (ELLINS) 1 660 0.00079 0.1580 WERE BPU_CITY OF MCPHERSON GAS TURBINE 3 1 50.0 0.14769WERE (ELLINS) 1 660 0.00079 0.1580 WERE BPU_CITY OF MCPHERSON GAS TURBINE 3 1 50.0 0.14769WERE (ELLINS) 1 660 0.00079 0.1580 WERE BPU_CITY OF MCPHERSON GAS TURBINE 3 1 70.0 0.12699WERE (ELLINS) 1 660 0.00079 0.1580 WERE BPU_CITY OF MCPHERSON GAS TURBINE 4 1 70.0 0.12699WERE (ERFREY) 1 4700 0.0004 0.1580 WERE BPU_CITY OF MCPHERSON GAS TURBINE 4 1 70.0 0.12699WERE (ERFREY) 1 4700 0.0004 0.1580 WERE BPU_CITY OF MCPHERSON GAS TURBINE 4 1 70.0 0.12699WERE (ERFREY) 1 4700 0.0004 0.1580 WERE BPU_CITY OF MCPHERSON GAS TURBINE 4 1 70.0 0.12699WERE (EMPREY) 1 4700 0.0004 0.1580 WERE BPU_CITY OF MCPHERSON GAS TURBINE 4 1 70.0 0.12699WERE (EMPREY) 1 4700 0.0004 0.1580 WERE BPU_CITY OF MCPHERSON GAS TURBINE 4 1 70.0 0.12699WERE (EMPREY) 1 4700 0.0004 0.1580 WERE BPU_CITY OF MCPHERSON GAS TURBINE 4 1 70.0 0.12699WERE (EMPREY) 1 4700 0.0004 0.1580 WERE BPU_CITY OF MCPHERSON GAS TURBINE 4 1 70.0 0.12699WERE (EMPREY) 1 4700 0.0004 0.0004 0.1580 WERE BPU_CITY OF MCPHERSON GAS TURBINE 4 1 70.0 0.0004 0.00	VERE	BPU - CITY OF MCPHERSON GAS TURBINE 1		51.0	-0.14708	WERE	LAWRENC	1	60.0	-0.00205	-0.14503	4.
WERE BPU_CITY OF MOPHERSON GAS TURBINE 3 1 90.0 0.14769WERE (AWRENG) 1 2289 0.00002 0.1400 WERE BPU_CITY OF MOPHERSON STEAM PLANT 1 27.0 0.14769WERE (AWRENG) 1 4.00 0.00076 0.1540 WERE BPU_CITY OF MOPHERSON GAS TURBINE 1 9.70 0.14769WERE FEATURE 1 4.00 0.00076 0.1540 WERE BPU_CITY OF MOPHERSON GAS TURBINE 1 9.70 0.14769WERE FEATURE 1 4.00 0.00076 0.1540 WERE BPU_CITY OF MOPHERSON GAS TURBINE 1 1 51.0 0.14769WERE FEATURE 1 4.00 0.00076 0.1540 WERE BPU_CITY OF MOPHERSON GAS TURBINE 1 1 51.0 0.14769WERE FEATURE 1 4.00 0.00076 0.1540 WERE BPU_CITY OF MOPHERSON GAS TURBINE 1 1 51.0 0.14769WERE TECUMSS 1 0.00 0.00076 0.1540 WERE BPU_CITY OF MOPHERSON GAS TURBINE 1 1 51.0 0.14769WERE TECUMSS 1 0.00 0.00076 0.1540 WERE BPU_CITY OF MOPHERSON GAS TURBINE 2 1 50.0 0.14769WERE TECUMSS 1 0.00 0.00076 0.1540 WERE BPU_CITY OF MOPHERSON GAS TURBINE 3 1 50.0 0.14769WERE TECUMSS 1 0.00 0.00076 0.1540 WERE BPU_CITY OF MOPHERSON GAS TURBINE 3 1 2.00 0.14769WERE TECUMSS 1 1 660 0.00076 0.1540 WERE BPU_CITY OF MOPHERSON GAS TURBINE 3 1 2.00 0.14769WERE TECUMSS 1 1 400 0.00076 0.1540 WERE BPU_CITY OF MOPHERSON GAS TURBINE 4 1 75.0 0.16769WERE TECUMSS 1 1 400 0.00076 0.1540 WERE BPU_CITY OF MOPHERSON GAS TURBINE 4 1 75.0 0.16769WERE TECUMSS 1 1 400 0.0004 0.13409 WERE BPU_CITY OF MOPHERSON GAS TURBINE 4 1 75.0 0.12699WERE JEFFREY 1 470 0.0004 0.13409 WERE BPU_CITY OF MOPHERSON GAS TURBINE 4 1 75.0 0.12699WERE JEFFREY 1 470 0.0004 0.13409 WERE BPU_CITY OF MOPHERSON GAS TURBINE 4 1 75.0 0.12699WERE JEFFREY 1 470 0.0004 0.13409 WERE BPU_CITY OF MOPHERSON GAS TURBINE 4 1 75.0 0.12699WERE JEFFREY 1 470 0.0004 0.13409 WERE BPU_CITY OF MOPHERSON GAS TURBINE 4 1 75.0 0.12699WERE JEFFREY 1 470 0.0004 0.0000 0.13409 WERE BPU_CITY OF MOPHERSON GAS TURBINE 4 1 75.0 0.12699WERE JEFFREY 1 470 0.0000 0.0000 0.13409 WERE BPU_CITY OF MOPHERSON GAS TURBINE 4 1 75.0 0.12699WERE JEFFREY 1 4 470 0.0000 0.0000 0.13409 WERE BPU_CITY OF MOPHERSON GAS TURBINE 4 1 75.0 0.12699WERE JEFFREY 1 4 470 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0								1				4.
WERE BPU_CITY OF MCPHERSON STEAMPLANT 1 27.0 0.14708 WERE LEVER 1 228.0 0.00002 0.14008 WERE BPU_CITY OF MCPHERSON ORS TURBINE 2 1 52.0 0.14708 WERE TECUMS 1 40.0 0.00759 0.13869 WERE BPU_CITY OF MCPHERSON ORS TEAMPLANT 1 27.0 0.14708 WERE TECUMS 1 40.0 0.00759 0.13869 WERE BPU_CITY OF MCPHERSON ORS TURBINE 1 1 51.0 0.14708 WERE TECUMS 1 40.0 0.00759 0.13869 WERE BPU_CITY OF MCPHERSON ORS TURBINE 1 1 51.0 0.14708 WERE TECUMS 1 60.0 0.00759 0.13869 WERE BPU_CITY OF MCPHERSON ORS TURBINE 2 1 52.0 0.14708 WERE TECUMS 1 60.0 0.00759 0.13869 WERE BPU_CITY OF MCPHERSON ORS TURBINE 2 1 52.0 0.14708 WERE TECUMS 1 60.0 0.00759 0.13869 WERE BPU_CITY OF MCPHERSON ORS TURBINE 2 1 52.0 0.14708 WERE TECUMS 1 60.0 0.00759 0.13869 WERE BPU_CITY OF MCPHERSON ORS TURBINE 2 1 52.0 0.14708 WERE TECUMS 1 60.0 0.00759 0.13869 WERE BPU_CITY OF MCPHERSON ORS TURBINE 2 1 52.0 0.14708 WERE TECUMS 1 60.0 0.00759 0.13869 WERE BPU_CITY OF MCPHERSON ORS TURBINE 3 1 50.0 0.14708 WERE TECUMS 1 60.0 0.00759 0.13869 WERE BPU_CITY OF MCPHERSON ORS TURBINE 4 1 79.0 0.12899 WERE JEFFREY 1 470.0 0.0004 0.13839 WERE BPU_CITY OF MCPHERSON ORS TURBINE 4 1 79.0 0.12899 WERE JEFFREY 1 470.0 0.0004 0.13839 WERE BPU_CITY OF MCPHERSON ORS TURBINE 4 1 79.0 0.12899 WERE JEFFREY 1 470.0 0.0004 0.13839 WERE BPU_CITY OF MCPHERSON ORS TURBINE 4 1 79.0 0.12899 WERE JEFFREY 1 470.0 0.0004 0.13839 WERE BPU_CITY OF MCPHERSON ORS TURBINE 4 1 79.0 0.12899 WERE JEFFREY 1 470.0 0.0004 0.13839 WERE BPU_CITY OF MCPHERSON ORS TURBINE 4 1 79.0 0.12899 WERE JEFFREY 1 470.0 0.0004 0.12809 WERE BPU_CITY OF MCPHERSON ORS TURBINE 4 1 79.0 0.12899 WERE JEFFREY 1 470.0 0.0004 0.12809 WERE BPU_CITY OF MCPHERSON ORS TURBINE 4 1 79.0 0.12899 WERE JEFFREY 1 470.0 0.0004 0.12809 WERE BPU_CITY OF MCPHERSON ORS TURBINE 4 1 79.0 0.12899 WERE JEFFREY 1 470.0 0.0004 0.012809 WERE BPU_CITY OF MCPHERSON ORS TURBINE 5 1 79.0 0.12899 WERE JEFFREY 1 470.0 0.0004 0.012809 WERE BPU_CITY OF MCPHERSON ORS TURBINE 5 1 79.0 0.012899 WERE JEFFREY 1 470.0 0.0004 0.0003 0.0003 0.0004 0.0003 0.0003 0.0003	VERE	BPU - CITY OF MCPHERSON GAS TURBINE 3						1	228.9			4.
WERE BPU-CITY OF MCPHERSON OS TURBINE 3 1 50.0 -0.14708 WERE TECUMS 1 4.00 -0.00709 -0.15890 WERE BPU-CITY OF MCPHERSON OSA TURBINE 3 1 50.0 -0.14708 WERE TECUMS 1 4.00 -0.00709 -0.15890 WERE BPU-CITY OF MCPHERSON OSA TURBINE 2 1 5.0 -0.14708 WERE TECUMS 1 4.00 -0.00709 -0.15890 WERE BPU-CITY OF MCPHERSON OSA TURBINE 2 1 5.0 -0.14708 WERE TECUMS 1 4.00 -0.00709 -0.15890 WERE BPU-CITY OF MCPHERSON OSA TURBINE 2 1 5.0 -0.14708 WERE TECUMS 1 6.0 -0.00709 -0.15890 WERE BPU-CITY OF MCPHERSON OSA TURBINE 2 1 5.0 -0.14708 WERE TECUMS 1 6.0 -0.00709 -0.15890 WERE BPU-CITY OF MCPHERSON OSA TURBINE 3 1 5.0 -0.14708 WERE TECUMS 1 6.0 -0.00709 -0.15890 WERE BPU-CITY OF MCPHERSON OSA TURBINE 4 1 79.0 -0.12890 WERE TECUMS 1 6.0 -0.00709 -0.15890 WERE BPU-CITY OF MCPHERSON OSA TURBINE 4 1 79.0 -0.12890 WERE TECUMS 1 4.00 -0.0009 -0.15890 WERE BPU-CITY OF MCPHERSON OSA TURBINE 4 1 79.0 -0.12890 WERE TECUMS 1 4.00 -0.0009 -0.15890 WERE BPU-CITY OF MCPHERSON OSA TURBINE 4 1 79.0 -0.12890 WERE WERE TECUMS 1 4.00 -0.0009 -0.15890 WERE BPU-CITY OF MCPHERSON OSA TURBINE 4 1 79.0 -0.12890 WERE BPU-CITY OF MCPHERSON OSA TURBINE 4 1 79.0 -0.12890 WERE BPU-CITY OF MCPHERSON OSA TURBINE 4 1 79.0 -0.12890 WERE WERE BPU-CITY OF MCPHERSON OSA TURBINE 4 1 79.0 -0.12890 WERE BPU-CITY OF MCPHERSON OSA TURBINE 4 1 79.0 -0.12890 WERE BPU-CITY OF MCPHERSON OSA TURBINE 4 1 79.0 -0.12890 WERE BPU-CITY OF MCPHERSON OSA TURBINE 4 1 79.0 -0.12890 WERE BPU-CITY OF MCPHERSON OSA TURBINE 4 1 79.0 -0.12890 WERE BPU-CITY OF MCPHERSON OSA TURBINE 4 1 79.0 -0.12890 WERE BPU-CITY OF MCPHERSON OSA TURBINE 4 1 79.0 -0.12890 WERE BPU-CITY OF MCPHERSON OSA TURBINE 4 1 79.0 -0.12890 WERE BPU-CITY OF MCPHERSON OSA TURBINE 4 1 79.0 -0.12890 WERE BPU-CITY OF MCPHERSON OSA TURBINE 4 1 79.0 -0.12890 WERE BPU-CITY OF MCPHERSON OSA TURBINE 4 1 79.0 -0.12890 WERE BPU-CITY OF MCPHERSON OSA TURBINE 4 1 79.0 -0.12890 WERE BPU-CITY OF MCPHERSON OSA TURBINE 5 1 1 79.0 -0.12890 WERE BPU-CITY OF MCPHERSON OSA TURBINE 5 1 1 79.0 -0.12890 WERE BPU-CITY OF MCPHERSON OSA TURBINE 5 1	VERE	BPU - CITY OF MCPHERSON STEAM PLANT		27.0	-0.14708	WERE	LAWRENC	1	228.9	-0.00202	-0.14506	4.
WERE BPU_CITY OF MCPHERSON GAS TURBINE 1								1				4:
WERE BPU-CITY OF MCPHERSON GAS TURBINE 1 1 5.10 - 0.14708 WERE TECUMSE 1 68.0 - 0.00798 - 0.13494 WERE TECUMSE 1 68.0 - 0.00798 WERE TECUMSE 1 68.0 - 0.00798 - 0.13494 WERE TECUMSE 1 68.0 - 0.00798 WERE TEC	VERE							1	40.0		-0.13949	43
WERE BPJ - CITY OF MCPHERSON GAS TURBINE 2 1 5.0 0 - 0.14708 WERE TECLIMSE 1 68.0 - 0.00798 - 0.13494 WERE BPJ - CITY OF MCPHERSON STEAM FLANT 1 27.0 0 - 14708 WERE TECLIMSE 1 68.0 - 0.00798 - 0.13494 WERE BPJ - CITY OF MCPHERSON STEAM FLANT 1 27.0 0 - 14708 WERE TECLIMSE 1 68.0 - 0.00798 - 0.13494 WERE BPJ - CITY OF MCPHERSON STEAM FLANT 1 27.0 0 - 14708 WERE TECLIMSE 1 470.0 0.0094 - 0.13695 WERE BPJ - CITY OF MCPHERSON CAS TURBINE 4 1 79.0 0 - 12096 WERE BPJ - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 0 - 12096 WERE BPJ - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 0 - 12096 WERE LAWREN 1 22.9 0.00224 - 0.12497 WERE BPJ - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 0 - 12096 WERE LAWREN 1 22.9 0.00220 - 0.12497 WERE BPJ - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 0 - 12096 WERE LAWREN 1 1 22.9 0.00220 - 0.12497 WERE BPJ - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 0 - 0.12096 WERE LAWREN 1 1 22.9 0.00220 - 0.12497 WERE BPJ - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 0 - 0.12096 WERE LAWREN 1 1 22.9 0.00220 - 0.12497 WERE BPJ - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 0 - 0.12096 WERE LAWREN 1 1 22.9 0.00220 - 0.12497 WERE BPJ - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 0 - 0.12096 WERE LAWREN 1 1 22.9 0.00220 - 0.12497 WERE BPJ - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 0 - 0.12096 WERE LAWREN 1 1 22.9 0.00220 - 0.12497 WERE BPJ - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 0 - 0.12096 WERE LAWREN 1 1 22.9 0.00220 - 0.12497 WERE BPJ - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 0 - 0.12096 WERE LAWREN 1 1 22.9 0.00220 - 0.12497 WERE BPJ - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 0 - 0.12096 WERE LAWREN 1 1 40.0 0.0074 - 0.0024 - 0.0025 - 0.0024 - 0.0025 - 0.0024 - 0.0025 - 0.0024 - 0.0025 - 0.0025 - 0.0024 - 0.0025 - 0.002												4:
WERE BPJ - CITY OF MCPHERSON SEAM PLANT 1 27.0 - 0.14708 WERE TECLMSE 1 68.0 - 0.00759 - 0.13490 WERE EDD - CITY OF MCPHERSON STEAM PLANT 1 27.0 - 0.14708 WERE TECLMSE 1 68.0 - 0.00759 - 0.13490 WERE BPJ - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 - 0.12690 WERE SEPREY 1 470.0 0.0094 - 0.13650 WERE BPJ - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 - 0.12690 WERE SEPREY 1 470.0 0.0094 - 0.13650 WERE BPJ - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 - 0.12690 WERE SEPREY 1 470.0 0.0094 - 0.13650 WERE BPJ - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 - 0.12690 WERE SEPREY 1 470.0 0.0004 - 0.0004 - 0.0005 SEPREY SEPREY 1 470.0 0.0004 - 0.0005 SEPREY SEPREY 1 470.0 0.0004 - 0.0005 SEPREY SEPREY SEPREY 1 470.0 0.0004 - 0.0005 SEPREY SEPREY SEPREY SEPREY 1 470.0 0.0004 - 0.0005 SEPREY S												43
WERE BPU - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 -0.12899 WERE JEFFREY 1 470.0 0.0094 -0.13699 WERE BPU - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 -0.12899 WERE JEFFREY 1 470.0 0.0094 -0.13699 WERE BPU - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 -0.12899 WERE JEFFREY 1 470.0 0.0094 -0.12899 WERE BPU - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 -0.12899 WERE JEFFREY 1 470.0 0.0094 -0.12899 WERE BPU - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 -0.12899 WERE JEFFREY 1 470.0 0.0094 -0.12899 WERE BPU - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 -0.12899 WERE LAWREN, 1 22.9 -0.00020 -0.12899 WERE BPU - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 -0.12899 WERE WACO 1 18.0 0.00074 -0.12899 WERE BPU - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 -0.12899 WERE WACO 1 18.0 0.00074 -0.12899 WERE BPU - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 -0.12899 WERE WACO 1 18.0 0.00074 -0.12899 WERE BPU - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 -0.12899 WERE WACO 1 18.0 0.00074 -0.12891 WERE BPU - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 -0.12899 WERE WACO 1 18.0 0.00076 -0.1194 WERE BPU - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 -0.12899 WERE WACO 1 18.0 0.00076 -0.1194 WERE BPU - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 -0.12899 WERE FEED WACO 1 18.0 0.00076 -0.1194 WERE BPU - CITY OF MCPHERSON GAS TURBINE 4 1 79.0 -0.12899 WERE FEED WACO 1 18.0 0.00076 -0.1194 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 4 1 79.0 -0.12899 WERE FEED WACO 1 18.0 0.00076 -0.1194 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 0.007373 WERE JEFFREY 1 470.0 0.0094 -0.08313 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 50.0 0.007373 WERE JEFFREY 1 470.0 0.0094 -0.08313 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 1 1 50.0 0.007373 WERE JEFFREY 1 470.0 0.0094 -0.08312 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 10.0 0.007373 WERE JEFFREY 1 470.0 0.0094 -0.08313 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 10.0 0.007373 WERE JEFFREY 1 470.0 0.0094 -0.08313 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 10.0 0.007373 WERE JEFFREY 1 470.0 0.0094 -0.08313 WERE HUTCHINSON ENERGY CENTER GAS TURBI	VERE	BPU - CITY OF MCPHERSON GAS TURBINE 3		50.0	-0.14708	WERE	TECUMSE	1	68.0	-0.00759	-0.13949	43
WERE BPU_CITY OF MCPHERSON GAS TURBINE 4 1 79.0 -0.12699 WERE JEFFREY 1 470.0 0.0014 -0.12699 WERE BPU_CITY OF MCPHERSON GAS TURBINE 4 1 79.0 -0.12699 WERE LAWREN, 1 50.0 -0.00204 -0.12499 WERE BPU_CITY OF MCPHERSON GAS TURBINE 4 1 79.0 -0.12699 WERE LAWREN, 1 50.0 -0.00205 -0.12494 WERE BPU_CITY OF MCPHERSON GAS TURBINE 4 1 79.0 -0.12699 WERE LAWREN, 1 50.0 -0.00205 -0.12494 WERE BPU_CITY OF MCPHERSON GAS TURBINE 4 1 79.0 -0.12699 WERE LAWREN, 1 50.0 -0.00205 -0.12494 WERE BPU_CITY OF MCPHERSON GAS TURBINE 4 1 79.0 -0.12699 WERE LAWREN, 1 50.0 -0.00205 -0.12494 WERE BPU_CITY OF MCPHERSON GAS TURBINE 4 1 79.0 -0.12699 WERE WARD 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								1				43
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WERE	WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.07388	WERE	JEFFREY		470.0	0.0094	-0.08328	7:
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WERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 52.0 -0.0738 WERE EVANS EN 1 195.0 -0.0004 -0.07384 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 1 1 50.0 -0.0737 WERE EVANS EN 1 195.0 -0.0004 -0.0737 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 1 1 50.0 -0.0737 WERE EVANS EN 1 195.0 -0.0004 -0.07387 WERE BPU-CITY OF MCPHERSON GAS TURBINE 1 1 51.0 -0.14708 WERE HUTCHIN 1 40.0 -0.07388 -0.0732 WERE BPU-CITY OF MCPHERSON GAS TURBINE 3 1 50.0 -0.14708 WERE HUTCHIN 1 40.0 -0.07388 -0.0732 WERE BPU-CITY OF MCPHERSON GAS TURBINE 2 1 50.0 -0.14708 WERE HUTCHIN 1 40.0 -0.07388 -0.0732 WERE BPU-CITY OF MCPHERSON GAS TURBINE 2 1 52.0 -0.14708 WERE HUTCHIN 1 40.0 -0.07388 -0.0732 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 52.0 -0.07388 WERE HUTCHIN 1 40.0 -0.07388 -0.0732 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 52.0 -0.07388 WERE HUTCHIN 1 40.0 -0.07388 -0.0732 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 52.0 -0.07388 WERE JEFFREY 1 470.0 -0.0014 -0.07248 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.07381 WERE JEFFREY 1 470.0 -0.0014 -0.07248 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.07381 WERE JEFFREY 1 470.0 -0.0014 -0.07248 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 1 1 52.0 -0.07373 WERE JEFFREY 1 470.0 -0.0014 -0.07238 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 1 1 52.0 -0.07373 WERE JEFFREY 1 470.0 -0.0014 -0.07238 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 1 1 50.0 -0.07388 WERE JEFFREY 1 470.0 -0.0014 -0.07238 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 1 1 50.0 -0.07389 WERE JEFFREY 1 470.0 -0.0014 -0.07238 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 1 1 50.0 -0.07389 WERE LAWRENG 1 60.0 -0.00205 -0.07183 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 1 1 50.0 -0.07388 WERE LAWRENG 1 60.0 -0.00205 -0.07183 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.07389 WERE LAWRENG 1 60.0 -0.00205 -0.07183 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.07389 WERE LAWRENG 1 60.0 -0.00205 -0.07188 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 50.0 -0.07373 WERE LAWRENG 1 228.9 -0.00202 -0.07178 WERE H	VERE	HUTCHINSON ENERGY CENTER UNIT 4	1	111.0	-0.07388	WERE	EVANS EN	1	195.0	-0.00004	-0.07384	82
WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.07331 WERE EVANS EN 1 195.0 -0.00004 -0.07377		HUTCHINSON ENERGY CENTER GAS TRUBINE 4 HUTCHINSON ENERGY CENTER GAS TURRINE 3	1					1				8:
WERE BPU - CITY OF MOPHERSON GAS TURBINE 1 1 51.0 -0.14708 WERE HUTCHINS 1 40.0 -0.0738 -0.0732	VERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	50.0	-0.07381	WERE	EVANS EN	1	195.0	-0.00004	-0.07377	82
WERE BPU - CITY OF MCPHERSON GAS TURBINE 3 1 50.0 -0.14708 WERE HUTCHINS 1 40.0 -0.07388 -0.0732 WERE BPU - CITY OF MCPHERSON GAS TURBINE 2 1 52.0 -0.14708 WERE HUTCHINS 1 40.0 -0.07388 -0.0732 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 52.0 -0.07388 WERE JEFFREY 1 470.0 -0.0014 -0.07248 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 4 1 78.0 -0.07388 WERE JEFFREY 1 470.0 -0.0014 -0.07248 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.07381 WERE JEFFREY 1 470.0 -0.0014 -0.07248 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.07331 WERE JEFFREY 1 470.0 -0.0014 -0.07248 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 1 1 52.0 -0.07331 WERE JEFFREY 1 470.0 -0.0014 -0.07248 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 1 1 1 11.0 -0.07388 WERE JEFFREY 1 470.0 -0.0014 -0.07233 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 1 1 11.0 -0.07388 WERE JEFFREY 1 470.0 -0.0014 -0.07238 WERE JEFFREY 1 470.0 -0.00205 -0.07183 WERE JEFFREY 1 470.0 -0.00205 -0.07183 WERE JEFFREY 1 470.0 -0.00205 -0.07188 WERE JEFFREY 1 470.0								1 1				8:
WERE BPU- CITY OF MCPHERSON GAS TURBINE 2 1 52.0 -0.14708 WERE HUTCHINS 1 40.0 -0.07348 -0.0732 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 52.0 -0.07388 WERE JEFFREY 1 470.0 -0.0014 -0.07248 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.07388 WERE JEFFREY 1 470.0 -0.0014 -0.07248 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.07381 WERE JEFFREY 1 470.0 -0.0014 -0.07248 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.07381 WERE JEFFREY 1 470.0 -0.0014 -0.07241 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 1 1 52.0 -0.07373 WERE JEFFREY 1 470.0 -0.0014 -0.07238 WERE HUTCHINSON ENERGY CENTER UNIT 4 1 111.0 -0.07388 WERE JEFFREY 1 470.0 -0.0014 -0.07238 WERE HUTCHINSON ENERGY CENTER UNIT 3 1 31.0 -0.07373 WERE JEFFREY 1 470.0 -0.0014 -0.07238 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 1 78.0 -0.07388 WERE JEFFREY 1 470.0 -0.0014 -0.07248 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 1 1 52.0 -0.07373 WERE JEFFREY 1 60.0 -0.00205 -0.07183 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 1 1 52.0 -0.07373 WERE LAWRENC 1 60.0 -0.00205 -0.07183 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.07381 WERE LAWRENC 1 60.0 -0.00205 -0.07186 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.07381 WERE LAWRENC 1 60.0 -0.00205 -0.07186 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.07381 WERE LAWRENC 1 60.0 -0.00205 -0.07186 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 52.0 -0.07381 WERE LAWRENC 1 60.0 -0.00205 -0.07186 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 52.0 -0.07381 WERE LAWRENC 1 60.0 -0.00205 -0.07186 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 52.0 -0.07388 WERE LAWRENC 1 60.0 -0.00205 -0.07186 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 52.0 -0.07388 WERE LAWRENC 1 60.0 -0.00205 -0.07186 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 52.0 -0.07388 WERE LAWRENC 1 228.9 -0.00202 -0.07176 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 52.0 -0.07388 WERE LAWRENC 1 228.9 -0.00202 -0.07176 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 52.0 -0.07388 WERE LAWRENC 1 228.9 -0.00202 -0.07176 WE								1				8:
WERE HUTCHINSON ENERGY CENTER GAS TRUBINE 4 1 78.0 -0.07388 WERE JEFFREY 1 470.0 -0.0014 -0.07248 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.07381 WERE JEFFREY 1 470.0 -0.0014 -0.07233 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 1 1 52.0 -0.07373 WERE JEFFREY 1 470.0 -0.0014 -0.07233 WERE HUTCHINSON ENERGY CENTER UNIT 4 1 111.0 -0.07388 WERE JEFFREY 1 470.0 -0.0014 -0.07238 WERE HUTCHINSON ENERGY CENTER UNIT 3 1 31.0 -0.07373 WERE JEFFREY 1 470.0 -0.0014 -0.07238 WERE HUTCHINSON ENERGY CENTER UNIT 3 1 31.0 -0.07373 WERE JEFFREY 1 470.0 -0.0014 -0.07238 WERE HUTCHINSON ENERGY CENTER GAS TRUBINE 4 1 78.0 -0.07388 WERE LAWRENC 1 60.0 -0.00205 -0.07183 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 1 1 52.0 -0.07373 WERE LAWRENC 1 60.0 -0.00205 -0.07183 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.07381 WERE LAWRENC 1 60.0 -0.00205 -0.07183 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.07381 WERE LAWRENC 1 60.0 -0.00205 -0.07176 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 31.0 -0.07373 WERE LAWRENC 1 60.0 -0.00205 -0.07176 WERE HUTCHINSON ENERGY CENTER UNIT 3 1 31.0 -0.07373 WERE LAWRENC 1 60.0 -0.00205 -0.07176 WERE HUTCHINSON ENERGY CENTER UNIT 3 1 31.0 -0.07373 WERE LAWRENC 1 60.0 -0.00205 -0.07178 WERE HUTCHINSON ENERGY CENTER UNIT 3 1 31.0 -0.07373 WERE LAWRENC 1 60.0 -0.00205 -0.07178 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 52.0 -0.07388 WERE LAWRENC 1 228.9 -0.00202 -0.07178 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 52.0 -0.07388 WERE LAWRENC 1 228.9 -0.00202 -0.07178 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.07388 WERE LAWRENC 1 228.9 -0.00202 -0.07178 WERE HUTCHINSON ENERGY CENTER GAS TURBIN	VERE	BPU - CITY OF MCPHERSON GAS TURBINE 2		52.0	-0.14708	WERE	HUTCHINS	1	40.0	-0.07388	-0.0732	83
WERE		HUTCHINSON ENERGY CENTER GAS TURBINE 3						1				84
WERE		HUTCHINSON ENERGY CENTER GAS TURBINE 2						1	470.0			84
WERE	VERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0	-0.07373	WERE	JEFFREY	1		-0.0014	-0.07233	84
WERE								1				84
WERE HUTCHINSON ENERGY CENTER GAS TURBINE 1 52.0 -0.07373 WERE LAWRENC 1 60.0 -0.00205 -0.07168	VERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4		78.0	-0.07388	WERE	LAWRENC	1	60.0	-0.00205		84
WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.07381 WERE LAWRENC 1 60.0 -0.00205 -0.07176 WERE HUTCHINSON ENERGY CENTER UNIT 3 1 31.0 -0.07373 WERE LAWRENC 1 60.0 -0.00205 -0.07168 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 52.0 -0.07388 WERE LAWRENC 1 60.0 -0.00205 -0.07183 WERE HUTCHINSON ENERGY CENTER UNIT 3 1 31.0 -0.07373 WERE LAWRENC 1 228.9 -0.00202 -0.07171 WERE HUTCHINSON ENERGY CENTER GAS TRUBINE 4 1 78.0 -0.07388 WERE LAWRENC 1 228.9 -0.00202 -0.07186 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 52.0 -0.07388 WERE LAWRENC 1 228.9 -0.00202 -0.07186 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 52.0 -0.07388 WERE LAWRENC 1 228.9 -0.00202 -0.07186 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.07381 WERE LAWRENC 1 228.9 -0.00202 -0.07186 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.07381 WERE LAWRENC 1 228.9 -0.00202 -0.07179 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 1 1 52.0 -0.07373 WERE LAWRENC 1 228.9 -0.00202 -0.07179 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 4 1 78.0 -0.07373 WERE LAWRENC 1 228.9 -0.00202 -0.07179 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 52.0 -0.07373 WERE LAWRENC 1 228.9 -0.00202 -0.07179 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.07373 WERE TECUMSE 1 40.0 -0.00759 -0.06629 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.07381 WERE TECUMSE 1 40.0 -0.00759 -0.06629 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.07381 WERE TECUMSE 1 40.0 -0.00759 -0.06629 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 52.0 -0.07381 WERE TECUMSE 1 40.0 -0.00759 -0.06629 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 52.0 -0.07381 WERE TECUMSE 1 40.0 -0.00759 -0.06629 WERE HU		HUTCHINSON ENERGY CENTER GAS TURBINE 1	1					1				84
WERE HUTCHINSON ENERGY CENTER UNIT 3 1 31.0 -0.07373 WERE LAWRENG 1 60.0 -0.00205 -0.07168 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 52.0 -0.07388 WERE LAWRENG 1 60.0 -0.00205 -0.07163 WERE HUTCHINSON ENERGY CENTER UNIT 3 1 31.0 -0.07378 WERE LAWRENG 1 228.9 -0.00202 -0.07183 WERE HUTCHINSON ENERGY CENTER UNIT 4 1 111.0 -0.07388 WERE LAWRENG 1 228.9 -0.00202 -0.07186 WERE HUTCHINSON ENERGY CENTER GAS TRUBINE 4 1 78.0 -0.07388 WERE LAWRENG 1 228.9 -0.00202 -0.07186 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 52.0 -0.07388 WERE LAWRENG 1 228.9 -0.00202 -0.07186 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.07381 WERE LAWRENG 1 228.9 -0.00202 -0.07178 WERE HUTCHIN								1				84
WERE HUTCHINSON ENERGY CENTER UNIT 3 1 31.0 -0.07373 WERE LAWRENG 1 228.9 -0.00202 -0.07171	VERE	HUTCHINSON ENERGY CENTER UNIT 3	1	31.0	-0.07373	WERE	LAWRENC	1	60.0	-0.00205	-0.07168	84
WERE								1				84
WERE HUTCHINSON ENERGY CENTER GAS TRUBINE 4 1 78.0 -0.07388 WERE LAWRENC 1 228.9 -0.00202 -0.07186 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 52.0 -0.07388 WERE LAWRENC 1 228.9 -0.00202 -0.07186 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.07381 WERE LAWRENC 1 228.9 -0.00202 -0.07171 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 1 1 52.0 -0.07373 WERE LAWRENC 1 228.9 -0.00202 -0.07171 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 4 1 78.0 -0.07388 WERE TECUMSE 1 40.0 -0.00759 -0.06629 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.07381 WERE TECUMSE 1 40.0 -0.00759 -0.06629 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.07381 WERE TECUMSE 1 40.0 -0.00759 -0.06629 WERE								1				84
WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.07381 WERE LAWRENG 1 228.9 -0.00202 -0.07179 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 1 1 52.0 -0.07373 WERE LAWRENG 1 228.9 -0.00202 -0.07179 WERE HUTCHINSON ENERGY CENTER GAS TRUBINE 4 1 78.0 -0.07388 WERE TECUMSE 1 40.0 -0.00759 -0.06629 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.07381 WERE TECUMSE 1 40.0 -0.00759 -0.06629 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 52.0 -0.07388 WERE TECUMSE 1 40.0 -0.00759 -0.06622	VERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4		78.0	-0.07388	WERE	LAWRENC	1	228.9	-0.00202	-0.07186	8
WERE HUTCHINSON ENERGY CENTER GAS TURBINE 1 1 52.0 -0.07373 WERE LAWRENG 1 228.9 -0.00202 -0.07171 WERE HUTCHINSON ENERGY CENTER GAS TRUBINE 4 1 78.0 -0.07388 WERE TECUMSE 1 40.0 -0.00759 -0.06629 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.07388 WERE TECUMSE 1 40.0 -0.00759 -0.06629 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 52.0 -0.07388 WERE TECUMSE 1 40.0 -0.00759 -0.06629								1				8
WERE HUTCHINSON ENERGY CENTER GAS TRUBINE 4 1 78.0 -0.07388 WERE TECUMSE 1 40.0 -0.00759 -0.06629 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 50.0 -0.07381 WERE TECUMSE 1 40.0 -0.00759 -0.06629 WERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 52.0 -0.07388 WERE TECUMSE 1 40.0 -0.00759 -0.06629								1				8
WERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 52.0 -0.07388 WERE TECUMSE 1 40.0 -0.00759 -0.06629	VERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4		78.0	-0.07388	WERE	TECUMSE	1	40.0	-0.00759	-0.06629	9
								1				9
WERE HUTCHINSON ENERGY CENTER UNIT 4 1 111.0 -0.07388 WERE TECUMSE 1 40.0 -0.00759 -0.06629	VERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	111.0			TECUMSE	1	40.0	-0.00759	-0.06629	9
WERE HUTCHINSON ENERGY CENTER GAS TRUBINE 4 1 78.0 -0.07388 WERE TECUMSE 1 68.0 -0.00759 -0.06629	VERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4		78.0	-0.07388	WERE	TECUMSE	1	68.0	-0.00759	-0.06629	9
WERE HUTCHINSON ENERGY CENTER GAS TURBINE 3 1 52.0 -0.07388 WERE TECUMSE 1 68.0 -0.00759 -0.06629 Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.								1		-0.00759	-0.06629	9

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

 $\underline{\textbf{Table 6}} \text{ - Potential Redispatch Relief Pairs to Prevent Deferral of Service}$

Wichita - Reno Co 345KV
EXIDE JUNCTION - NORTH AMERICAN PHILIPS 115KV CKT 1
From->To
EAST MCPHERSON - SUMMIT 230KV CKT 1
57368573721568725687312206SH
6/1/06 - 10/1/06, 6/1/07 - 10/1/07, 6/1/08 - 10/1/08, 6/1/09 - 10/1/09, & 6/1/10 - 10/1/10
I Aggregate

		Relief	
Reservation	Relief Amount	Amount	
974561	7.4	7.9	
974662	0.2	7.9	
974988	0.3	7.9	
			N/

974561	7.4	7.9	l								
974662	0.2	7.9	ł								
974988	0.3	7.9	Maximum	1	Sink	1		Maximum			Redispatch
			Increment		Control			Decrement			Amount
Source Control Area	Source	Source Id	(MW)	GSF	Area	Sink	Sink Id	(MW)	GSF	Factor	(MW)
WERE	'BPU - CITY OF MCPHERSON STEAM PLANT'	1	27.0	-0.30492	WERE	'JEFFREY	1	470.0	0.02345	-0.32837	24
WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 1'	1	51.0	-0.30492	WERE	'JEFFREY	1	470.0	0.02345	-0.32837	24
WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 2'	1	52.0	-0.30492	WERE	'JEFFREY	1	470.0	0.02345	-0.32837	24
WERE WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 3' 'BPU - CITY OF MCPHERSON GAS TURBINE 3'	1	50.0 50.0	-0.30492 -0.30492	WERE WERE	'JEFFREY 'JEFFREY	1	470.0	0.02345 0.02345	-0.32837 -0.32837	24
WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 2'	1	52.0	-0.30492	WERE	'JEFFREY	1	470.0 470.0	0.02345	-0.32837	24
WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 1'	1	51.0	-0.30492	WERE	'JEFFREY	1	470.0	0.02345	-0.32837	24
WERE	'BPU - CITY OF MCPHERSON STEAM PLANT'	1	27.0	-0.30492	WERE	'JEFFREY	1	470.0	0.02345	-0.32837	24
WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 2'	1	52.0	-0.30492	WERE	'JEFFREY	1	470.0	0.01647	-0.32139	25
WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 1'	1	51.0	-0.30492	WERE	'JEFFREY	1	470.0	0.01647	-0.32139	25
WERE	'BPU - CITY OF MCPHERSON STEAM PLANT'	1	27.0	-0.30492	WERE	'JEFFREY	1	470.0	0.01647	-0.32139	25
WERE WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 3' 'BPU - CITY OF MCPHERSON GAS TURBINE 4'	1	50.0 79.0	-0.30492 -0.29789	WERE WERE	'JEFFREY 'JEFFREY	1	470.0 470.0	0.01647 0.01647	-0.32139 -0.31436	25 25
WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 4'	1	79.0	-0.29789	WERE	'JEFFREY	1	470.0	0.02345	-0.32134	25
WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 4'	1	79.0	-0.29789	WERE	'JEFFREY	1	470.0	0.02345	-0.32134	25
WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 2'	1	52.0	-0.30492	WERE	'LAWRENG	1	25.0	0.00945	-0.31437	25
WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 3'	1	50.0	-0.30492	WERE	'LAWRENG	1	25.0	0.00945	-0.31437	25
WERE	'BPU - CITY OF MCPHERSON STEAM PLANT'	1	27.0	-0.30492	WERE	LAWREN	1	25.0	0.00945	-0.31437	25
WERE WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 1' 'BPU - CITY OF MCPHERSON GAS TURBINE 1'	1	51.0 51.0	-0.30492 -0.30492	WERE WERE	'LAWRENG	1	25.0 60.0	0.00945 0.00945	-0.31437 -0.31437	25 25
WERE	'BPU - CITY OF MCPHERSON STEAM PLANT'	1	27.0	-0.30492	WERE	LAWREN	1	60.0	0.00945	-0.31437	25
WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 2'	1	52.0	-0.30492	WERE	LAWREN	1	60.0	0.00945	-0.31437	25
WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 3'	1	50.0	-0.30492	WERE	'LAWRENC	1	60.0	0.00945	-0.31437	25
WERE	'BPU - CITY OF MCPHERSON STEAM PLANT'	1	27.0	-0.30492	WERE	LAWREN	1	228.9	0.00995	-0.31487	25
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3'	1	50.0	-0.30492	WERE	LAWREN	1	228.9	0.00995	-0.31487	25
WERE WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 1' 'BPU - CITY OF MCPHERSON GAS TURBINE 2'	1	51.0 52.0	-0.30492 -0.30492	WERE WERE	'LAWRENG	1	228.9 228.9	0.00995	-0.31487	25 25
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2'	1	52.0 52.0	-0.30492	WERE	TECUMSE	1	40.0	0.00995 0.00847	-0.31487 -0.31339	25
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3'	1	50.0	-0.30492	WERE	TECUMSE	1	40.0	0.00847	-0.31339	25
WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 1'	1	51.0	-0.30492	WERE	TECUMSE	1	40.0	0.00847	-0.31339	25
WERE	'BPU - CITY OF MCPHERSON STEAM PLANT'	1	27.0	-0.30492	WERE	TECUMSE	1	40.0	0.00847	-0.31339	25
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1'	1	51.0	-0.30492	WERE	TECUMSE	1	68.0	0.00847	-0.31339	25
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3'	1	50.0	-0.30492	WERE	TECHNSE	1	68.0	0.00847	-0.31339	25
WERE WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 2' 'BPU - CITY OF MCPHERSON STEAM PLANT'	1	52.0 27.0	-0.30492 -0.30492	WERE WERE	TECUMSE TECUMSE	1	68.0 68.0	0.00847 0.00847	-0.31339 -0.31339	25 25
WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 4'	1	79.0	-0.29789	WERE	LAWREN	1	25.0	0.00945	-0.30734	26
WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 4'	1	79.0	-0.29789	WERE	'LAWRENG	1	60.0	0.00945	-0.30734	26
WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 4'	1	79.0	-0.29789	WERE	LAWREN	1	228.9	0.00995	-0.30784	26
WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 4'	1	79.0	-0.29789	WERE	TECUMSE	1	40.0	0.00847	-0.30636	26
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4'	1	79.0	-0.29789	WERE	TECUMSE EVANS EI	1	68.0	0.00847	-0.30636	26
WERE WERE	'BPU - CITY OF MCPHERSON STEAM PLANT' 'BPU - CITY OF MCPHERSON GAS TURBINE 3'	1	27.0 50.0	-0.30492 -0.30492	WERE WERE	EVANS EI	1	195.0 195.0	0.0004 0.0004	-0.30532 -0.30532	26
WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 2'	1	52.0	-0.30492	WERE	'EVANS EI	1	195.0	0.0004	-0.30532	26
WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 1'	1	51.0	-0.30492	WERE	'EVANS EI	1	195.0	0.0004	-0.30532	26
WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 1'	1	51.0	-0.30492	WERE	'WACO'	1	18.0	-0.00269	-0.30223	26
WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 2'	1	52.0	-0.30492	WERE	'WACO'	1	18.0	-0.00269	-0.30223	26
WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 3'	1	50.0	-0.30492	WERE	'WACO'	1	18.0	-0.00269	-0.30223	26
WERE WERE	'BPU - CITY OF MCPHERSON STEAM PLANT' 'BPU - CITY OF MCPHERSON GAS TURBINE 1'	1	27.0 51.0	-0.30492 -0.30492	WERE WERE	'WACO' 'CHANUTE	1	18.0 37.7	-0.00269 0.00159	-0.30223 -0.30651	26
WERE	'BPU - CITY OF MCPHERSON STEAM PLANT'	1	27.0	-0.30492	WERE	CHANUTE	1	37.7	0.00159	-0.30651	26
WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 4'	1	79.0	-0.29789	WERE	'CHANUTE	1	37.7	0.00159	-0.29948	26
WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 2'	1	52.0	-0.30492	WERE	'CHANUTE	1	37.7	0.00159	-0.30651	26
WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 3'	1	50.0	-0.30492	WERE	'CHANUTE	1	37.7	0.00159	-0.30651	26
WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 3'	1	50.0	-0.30492	WERE	'CITY OF E	1	20.0	0.00159	-0.30651	26
WERE WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 2' 'BPU - CITY OF MCPHERSON STEAM PLANT'	1	52.0 27.0	-0.30492 -0.30492	WERE WERE	CITY OF E	1	20.0	0.00159	-0.30651 -0.30651	26
WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 1'	1	51.0	-0.30492	WERE	CITY OF E	1	20.0 20.0	0.00159 0.00159	-0.30651	26
WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 4'	1	79.0	-0.29789	WERE	CITY OF E	1	20.0	0.00159	-0.29948	26
WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 4'	1	79.0	-0.29789	WERE	'EVANS EI	1	195.0	0.0004	-0.29829	27
WERE	'BPU - CITY OF MCPHERSON GAS TURBINE 4'	1	79.0	-0.29789	WERE	'WACO'	1	18.0	-0.00269	-0.2952	27
WERE	'HUTCHINSON ENERGY CENTER UNIT 3'	1	31.0	-0.24018		'JEFFREY	1	470.0	0.02345	-0.26363	30
WERE WERE	'HUTCHINSON ENERGY CENTER GAS TURBINE 3' 'HUTCHINSON ENERGY CENTER UNIT 1'	1	52.0 18.0	-0.24057 -0.24018	WERE WERE	'JEFFREY 'JEFFREY	1	470.0 470.0	0.02345 0.02345	-0.26402 -0.26363	30
WERE	'HUTCHINSON ENERGY CENTER GAS TURBINE 2'	1	50.0	-0.24018	WERE	'JEFFREY	1	470.0	0.02345	-0.26384	30
WERE	'HUTCHINSON ENERGY CENTER UNIT 2'	1	18.0	-0.24018		'JEFFREY	1	470.0	0.02345	-0.26363	30
WERE	'HUTCHINSON ENERGY CENTER UNIT 4'	1	111.0	-0.24058	WERE	'JEFFREY	1	470.0	0.02345	-0.26403	30
WERE	'HUTCHINSON ENERGY CENTER GAS TURBINE 1'	1	52.0	-0.24019		'JEFFREY	1	470.0	0.02345	-0.26364	30
WERE	'HUTCHINSON ENERGY CENTER GAS TRUBINE 4' 'HUTCHINSON ENERGY CENTER GAS TURBINE 1'	1	78.0	-0.24057	WERE	'JEFFREY	1	470.0	0.02345	-0.26402	30
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1" HUTCHINSON ENERGY CENTER UNIT 4"	1	52.0 111.0	-0.24019 -0.24058		'JEFFREY 'JEFFREY	1	470.0 470.0	0.02345 0.02345	-0.26364 -0.26403	30
WERE	'HUTCHINSON ENERGY CENTER UNIT 2'	1	18.0	-0.24018		'JEFFREY	1	470.0	0.02345	-0.26363	30
WERE	'HUTCHINSON ENERGY CENTER GAS TURBINE 3'	1	52.0	-0.24057	WERE	'JEFFREY	1	470.0	0.02345	-0.26402	30
WERE	'HUTCHINSON ENERGY CENTER GAS TURBINE 2'	1	50.0			'JEFFREY	1	470.0	0.02345	-0.26384	30
WERE	'HUTCHINSON ENERGY CENTER GAS TRUBINE 4'	1	78.0			'JEFFREY 'JEFFREY	1	470.0	0.02345	-0.26402	30
WERE WERE	'HUTCHINSON ENERGY CENTER UNIT 1' 'HUTCHINSON ENERGY CENTER UNIT 3'	1	18.0 31.0			'JEFFREY	1	470.0 470.0	0.02345 0.02345	-0.26363 -0.26363	30
WERE	"HUTCHINSON ENERGY CENTER UNIT 3 "HUTCHINSON ENERGY CENTER GAS TURBINE 3"	1	52.0			JEFFREY JEFFREY	1	470.0	0.02345	-0.25704	31
WERE	'HUTCHINSON ENERGY CENTER UNIT 3'	1	31.0			'JEFFREY	1	470.0	0.01647	-0.25665	31
WERE	'HUTCHINSON ENERGY CENTER GAS TURBINE 2'	1	50.0	-0.24039	WERE	'JEFFREY	1	470.0	0.01647	-0.25686	31
WERE	'HUTCHINSON ENERGY CENTER UNIT 2'	1	18.0	-0.24018	WERE	'JEFFREY	1	470.0	0.01647	-0.25665	31
WERE	'HUTCHINSON ENERGY CENTER GAS TURBINE 1'	1	52.0			'JEFFREY	1	470.0	0.01647	-0.25666	31
WERE WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4' HUTCHINSON ENERGY CENTER UNIT 4'	1	78.0 111.0			'JEFFREY 'JEFFREY	1	470.0 470.0	0.01647 0.01647	-0.25704 -0.25705	31 31
WERE	HUTCHINSON ENERGY CENTER UNIT 1	1	111.0			'JEFFREY	1	470.0	0.01647	-0.25665	31
WERE	'HUTCHINSON ENERGY CENTER UNIT 2'	1	18.0			LAWREN	1	25.0	0.00945	-0.24963	32
WERE	'HUTCHINSON ENERGY CENTER GAS TRUBINE 4'	1	78.0	-0.24057	WERE	'LAWRENG	1	25.0	0.00945	-0.25002	32
WERE	'HUTCHINSON ENERGY CENTER UNIT 1'	1	18.0	-0.24018	WERE	'LAWRENG	1	25.0	0.00945	-0.24963	32
WERE	'HUTCHINSON ENERGY CENTER UNIT 3'	1	31.0			LAWREN	1	25.0	0.00945	-0.24963	32
WERE WERE	'HUTCHINSON ENERGY CENTER GAS TURBINE 1' 'HUTCHINSON ENERGY CENTER GAS TURBINE 2'	1	52.0			'LAWRENG	1	25.0	0.00945	-0.24964 -0.24984	32
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2' 'HUTCHINSON ENERGY CENTER GAS TURBINE 3'	1	50.0 52.0			'LAWRENG	1	25.0 25.0	0.00945 0.00945	-0.24984	32 32
WERE	'HUTCHINSON ENERGY CENTER UNIT 4'	1	111.0			'LAWRENG	1	25.0	0.00945	-0.25002	32
WERE	'HUTCHINSON ENERGY CENTER UNIT 3'	1	31.0			LAWREN	1	60.0	0.00945	-0.24963	32
WERE	'HUTCHINSON ENERGY CENTER UNIT 2'	1	18.0	-0.24018	WERE	'LAWRENG	1	60.0	0.00945	-0.24963	32
WERE	'HUTCHINSON ENERGY CENTER GAS TURBINE 1'	1	52.0	-0.24019	WERE	'LAWRENG	1	60.0	0.00945	-0.24964	32
WERE	'HUTCHINSON ENERGY CENTER UNIT 1'	1	18.0			LAWREN	1	60.0	0.00945	-0.24963	32
WERE	'HUTCHINSON ENERGY CENTER UNIT 4'	1	111.0			LAWREN	1	60.0	0.00945	-0.25003	32
WERE WERE	'HUTCHINSON ENERGY CENTER GAS TURBINE 3' 'HUTCHINSON ENERGY CENTER GAS TRUBINE 4'	1	52.0 78.0			'LAWRENG	1	60.0 60.0	0.00945 0.00945	-0.25002 -0.25002	32
WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4 'HUTCHINSON ENERGY CENTER GAS TURBINE 2'	1	78.0 50.0	-0.24037		LAWREN	1	60.0		-0.24984	32
	aximum Increment were determine from the Souce and								00070	7004	

WERE INJURIES OF LENTER GAS TURBINE 2 | 1 | 50.0| -0.24039|WERE | LAWKEN[1 | 6 | Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified. Factor = Source GSF - Sink GSF | Redispatch Amount = Relief Amount / Factor

 $\underline{\textbf{Table 6}} \text{ - Potential Redispatch Relief Pairs to Prevent Deferral of Service}$

Upgrade: Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed: Wichita - Reno Co 345KV
NORTH AMERICAN PHILIPS JUNCTION (SOUTH) - WEST MCPHERSON 115KV CKT 1
From->To
EAST MCPHERSON - SUMMIT 230KV CKT 1
57374574381568725687312206SH
6/1/06 - 10/1/06, 6/1/07 - 10/1/07, 6/1/08 - 10/1/08, 6/1/09 - 10/1/09, & 6/1/10 - 10/1/10

		Aggregate Relief
Reservation	Relief Amount	Amount
974662	0.2	0.4
974988	0.2	0.4

Reservation	Relief Amount	Amount									
974662	0.2	0.4									
974988	0.2	0.4	Maximum	1	Sink	1		Maximum			Redispato
			Increment		Control			Decrement			Amount
Source Control Area	Source	Source Id		GSF	Area	Sink	Sink Id	(MW)	GSF	Factor	(MW)
WERE WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4 HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	78.0 52.0	-0.19664 -0.19633	WERE WERE	JEFFREY JEFFREY	<u>1</u> 1	470.0 470.0	0.01648 0.01648	-0.21312 -0.21281	
WERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0	-0.19633		JEFFREY	1	470.0	0.01648	-0.21281	
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.19664	WERE	JEFFREY	1	470.0	0.01648	-0.21312	
WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	111.0	-0.19664		JEFFREY	1	470.0	0.01648	-0.21312	
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2 HUTCHINSON ENERGY CENTER UNIT 3	1	50.0 31.0	-0.19649 -0.19633	WERE WERE	JEFFREY JEFFREY	<u>1</u> 1	470.0 470.0	0.01648 0.01648	-0.21297 -0.21281	
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.24255	WERE	JEFFREY	1	470.0	0.01648	-0.25903	
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.24815	WERE	JEFFREY	1	470.0	0.01648	-0.26463	
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.24815		JEFFREY	1	470.0	0.01648	-0.26463	
WERE WERE	BPU - CITY OF MCPHERSON STEAM PLANT HUTCHINSON ENERGY CENTER UNIT 1	1	27.0 18.0	-0.24815 -0.19633	WERE WERE	JEFFREY JEFFREY	<u>1</u> 1	470.0 470.0	0.01648 0.01648	-0.26463 -0.21281	
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.24815		JEFFREY	1	470.0	0.01648	-0.26463	
WERE	HUTCHINSON ENERGY CENTER UNIT 3	1	31.0	-0.19633	WERE	JEFFREY	1	470.0	0.01703	-0.21336	
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4 BPU - CITY OF MCPHERSON GAS TURBINE 3	1	79.0 50.0	-0.24255 -0.24815		JEFFREY JEFFREY	<u>1</u> 1	470.0 470.0	0.01703 0.01703	-0.25958	
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.24815		JEFFREY	1	470.0	0.01703	-0.26518 -0.26518	
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.24815	WERE	JEFFREY	1	470.0	0.01703	-0.26518	
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.24815		JEFFREY	1	470.0	0.01703	-0.26518	
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 1 HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	18.0 78.0	-0.19633 -0.19664	WERE WERE	JEFFREY JEFFREY	<u>1</u> 1	470.0 470.0	0.01703 0.01703	-0.21336 -0.21367	
WERE	HUTCHINSON ENERGY CENTER GAS TROBINE 4	1	52.0	-0.19664		JEFFREY	1	470.0	0.01703	-0.21367	
WERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0	-0.19633	WERE	JEFFREY	1	470.0	0.01703	-0.21336	
WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	50.0	-0.19649		JEFFREY	1 1	470.0	0.01703	-0.21352	
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 4 HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	111.0 52.0	-0.19664 -0.19633	WERE WERE	JEFFREY JEFFREY	<u>1</u> 1	470.0 470.0	0.01703 0.01703	-0.21367 -0.21336	
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.24255	WERE	JEFFREY	1	470.0	0.01703	-0.25958	
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.24815	WERE	JEFFREY	1	470.0	0.01703	-0.26518	
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.24815		JEFFREY	1 1	470.0 470.0	0.01703	-0.26518	
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 2 HUTCHINSON ENERGY CENTER UNIT 1	1	18.0 18.0	-0.19633 -0.19633	WERE WERE	JEFFREY JEFFREY	<u>1</u> 1	470.0 470.0	0.01703 0.01703	-0.21336 -0.21336	
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.19664	WERE	JEFFREY	1	470.0	0.01703	-0.21367	
WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	111.0	-0.19664	WERE	JEFFREY	1	470.0	0.01703	-0.21367	
WERE	HUTCHINSON ENERGY CENTER UNIT 3 BPU - CITY OF MCPHERSON GAS TURBINE 2	1	31.0 52.0	-0.19633 -0.24815	WERE WERE	JEFFREY JEFFREY	<u>1</u>	470.0 470.0	0.01703 0.01703	-0.21336 -0.26518	
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2 BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.24815		JEFFREY	1	470.0	0.01703	-0.26518 -0.26518	
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0	-0.19633	WERE	JEFFREY	1	470.0	0.01703	-0.21336	
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	50.0	-0.19649		JEFFREY	1	470.0	0.01703	-0.21352	
WERE WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4 HUTCHINSON ENERGY CENTER UNIT 1	1	78.0 18.0	-0.19664 -0.19633	WERE WERE	JEFFREY LAWRENC	<u>1</u> 1	470.0 25.0	0.01703 0.0101	-0.21367 -0.20643	
WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	78.0	-0.19664	WERE	LAWRENC	1	25.0	0.0101	-0.20674	
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.24815	WERE	LAWRENC	1	25.0	0.0101	-0.25825	
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.24815		LAWRENC	1	25.0	0.0101	-0.25825	
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4 HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	79.0 50.0	-0.24255 -0.19649		LAWRENC LAWRENC	<u>1</u> 1	25.0 25.0	0.0101 0.0101	-0.25265 -0.20659	
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0	-0.19633	WERE	LAWRENC	1	25.0	0.0101	-0.20643	
WERE	HUTCHINSON ENERGY CENTER UNIT 3	1	31.0	-0.19633	WERE	LAWRENC	1	25.0	0.0101	-0.20643	
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 4 HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	111.0 52.0	-0.19664 -0.19664	WERE WERE	LAWRENC LAWRENC	<u>1</u> 1	25.0 25.0	0.0101 0.0101	-0.20674 -0.20674	
WERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0	-0.19633	WERE	LAWRENC	1	25.0	0.0101	-0.20643	
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.24815	WERE	LAWRENC	1	25.0	0.0101	-0.25825	
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.24815		LAWRENC	1	25.0	0.0101	-0.25825	
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2 HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	50.0 52.0	-0.19649 -0.19633	WERE WERE	LAWRENC LAWRENC	<u>1</u> 1	60.0 60.0	0.0101 0.0101	-0.20659 -0.20643	
WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	111.0	-0.19664		LAWRENC	1	60.0	0.0101	-0.20674	
WERE	HUTCHINSON ENERGY CENTER UNIT 3	1	31.0	-0.19633	WERE	LAWRENC	1	60.0	0.0101	-0.20643	
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3 BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0 52.0	-0.19664 -0.24815		LAWRENC LAWRENC	<u>1</u> 1	60.0 60.0	0.0101 0.0101	-0.20674 -0.25825	
WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	78.0	-0.19664	WERE	LAWRENC	1	60.0	0.0101	-0.20674	
WERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0	-0.19633	WERE	LAWRENC	1	60.0	0.0101	-0.20643	
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.24815		LAWRENC LAWRENC	1	60.0	0.0101	-0.25825	
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1 BPU - CITY OF MCPHERSON STEAM PLANT	1	51.0 27.0	-0.24815 -0.24815		LAWRENC	<u>1</u> 1	60.0 60.0	0.0101 0.0101	-0.25825 -0.25825	
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.24255	WERE	LAWRENC	1	60.0	0.0101	-0.25265	
WERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0	-0.19633	WERE	LAWRENC	1	60.0	0.0101	-0.20643	
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0 78.0	-0.24815 -0.19664		LAWRENC LAWRENC	<u>1</u>	228.9 228.9	0.01056	-0.25871	
WERE WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4 BPU - CITY OF MCPHERSON GAS TURBINE 3	1	78.0 50.0	-0.19664		LAWRENC	1	228.9	0.01056 0.01056	-0.2072 -0.25871	
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.24815	WERE	LAWRENC	1	228.9	0.01056	-0.25871	
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0			LAWRENC LAWRENC	1 1	228.9	0.01056	-0.25871	
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4 HUTCHINSON ENERGY CENTER UNIT 1	1	79.0 18.0	-0.24255 -0.19633		LAWRENC	<u>1</u>	228.9 228.9	0.01056 0.01056	-0.25311 -0.20689	
WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	111.0			LAWRENC	1	228.9	0.01056	-0.20669	
WERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0	-0.19633	WERE	LAWRENC	1	228.9	0.01056	-0.20689	
WERE	HUTCHINSON ENERGY CENTER UNIT 3 HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	31.0			LAWRENC	<u>1</u>	228.9	0.01056	-0.20689	
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1 HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	52.0 50.0			LAWRENC	1	228.9 228.9	0.01056 0.01056	-0.20689 -0.20705	
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.19664	WERE	LAWRENC	1	228.9	0.01056	-0.2072	
WERE	HUTCHINSON ENERGY CENTER UNIT 3	1	31.0			TECUMSE	1	40.0	0.01229	-0.20862	
WERE WERE	BPU - CITY OF MCPHERSON STEAM PLANT BPU - CITY OF MCPHERSON GAS TURBINE 1	1	27.0 51.0			TECUMSE TECUMSE	<u>1</u>	40.0 40.0	0.01229 0.01229	-0.26044 -0.26044	
WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	78.0			TECUMSE	1	40.0	0.01229	-0.20893	
WERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0	-0.19633	WERE	TECUMSE	1	40.0	0.01229	-0.20862	
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	50.0			TECUMSE	1	40.0	0.01229	-0.20878	
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4 HUTCHINSON ENERGY CENTER UNIT 4	1	79.0 111.0	-0.24255 -0.19664		TECUMSE TECUMSE	<u>1</u>	40.0 40.0	0.01229 0.01229	-0.25484 -0.20893	
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0			TECUMSE	1	40.0	0.01229	-0.26044	
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.19664	WERE	TECUMSE	1	40.0	0.01229	-0.20893	
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0			TECUMSE	1 1	40.0	0.01229	-0.26044	
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1 HUTCHINSON ENERGY CENTER UNIT 2	1	52.0 18.0			TECUMSE TECUMSE	<u>1</u>	40.0 40.0	0.01229 0.01229	-0.20862 -0.20862	
WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	111.0			TECUMSE	1	68.0	0.01229	-0.20893	
WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	78.0	-0.19664	WERE	TECUMSE	1	68.0	0.01229	-0.20893	
WERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0			TECUMSE	1 1	68.0	0.01229	-0.20862	
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3 HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	52.0 50.0			TECUMSE TECUMSE	<u>1</u>	68.0 68.0	0.01229 0.01229	-0.20893 -0.20878	
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0	-0.19633	WERE	TECUMSE	1	68.0	0.01229	-0.20862	
	LILITOLINGON ENERGY OFFITER LINIT O	-	40.0	0.40633	WERE	TECUMSE	1	68.0	0.01229	0.20062	
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 2 HUTCHINSON ENERGY CENTER UNIT 3	1	18.0 31.0			TECUMSE	1	68.0	0.01229	-0.20862 -0.20862	

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

<u>Table 6</u> - Potential Redispatch Relief Pairs to Prevent Deferral of Service

Wichita - Reno Co 345KV
EXIDE JUNCTION - SUMMIT 115KV CKT 1
To--From
EAST MCPHERSON - SUMMIT 230KV CKT 1
57368573811568725687312206FA
10/1/06 - 12/1/06, 10/1/07 - 12/1/07, 10/1/08 - 12/1/08, & 10/1/09 - 12/1/09

Reservation 974561	Relief Amount 2.6		Relief Amount 2.7									
974662 974988	0.1		2.7									
				Maximum Increment	005	Sink Control	0.1	0: 1.11	Maximum Decrement	005		Redispa
Source Control Area /ERE	Source BPU - CITY OF MCPHERSON STI	AM PLANT	Source Id	(MW) 27.0	-0.30491	Area WERE	Sink JEFFREY	Sink Id	(MW) 470.0	GSF 0.02346	-0.32837	(MW)
/ERE	BPU - CITY OF MCPHERSON GA		1	50.0	-0.30491		JEFFREY	1	470.0	0.02346	-0.32837	
/ERE	BPU - CITY OF MCPHERSON GA		1	51.0	-0.30491		JEFFREY	1	470.0	0.02346	-0.32837	
'ERE 'ERE	BPU - CITY OF MCPHERSON GA BPU - CITY OF MCPHERSON GA		1	52.0 52.0	-0.30491 -0.30491		JEFFREY JEFFREY	1	470.0 470.0	0.02346 0.02346	-0.32837 -0.32837	
/ERE	BPU - CITY OF MCPHERSON GA		1	51.0	-0.30491		JEFFREY	1	470.0	0.02346	-0.32837	
ERE	BPU - CITY OF MCPHERSON GA		1	50.0	-0.30491		JEFFREY	1	470.0	0.02346	-0.32837	
'ERE 'ERE	BPU - CITY OF MCPHERSON STI BPU - CITY OF MCPHERSON GA		1	27.0 79.0	-0.30491 -0.29789		JEFFREY JEFFREY	1	470.0 470.0	0.02346 0.01647	-0.32837 -0.31436	
ERE	BPU - CITY OF MCPHERSON STI		1	27.0	-0.30491		JEFFREY	1	470.0	0.01647	-0.32138	
'ERE	BPU - CITY OF MCPHERSON GA		1	51.0	-0.30491		JEFFREY	1	470.0	0.01647	-0.32138	
/ERE /ERE	BPU - CITY OF MCPHERSON GA BPU - CITY OF MCPHERSON GA		1	50.0 52.0	-0.30491 -0.30491		JEFFREY JEFFREY	1	470.0 470.0	0.01647 0.01647	-0.32138 -0.32138	-
/ERE	BPU - CITY OF MCPHERSON GA		1	79.0	-0.30491		JEFFREY	1	470.0	0.02346	-0.32135	
/ERE	BPU - CITY OF MCPHERSON GA		1	79.0	-0.29789		JEFFREY	1	470.0	0.02346	-0.32135	
/ERE	BPU - CITY OF MCPHERSON GA BPU - CITY OF MCPHERSON GA		1	79.0	-0.29789		LAWRENC	1	172.3	0.00995	-0.30784	
/ERE /ERE	BPU - CITY OF MCPHERSON GA		1	52.0 50.0	-0.30491 -0.30491		LAWRENC	1	172.3 172.3	0.00995	-0.31486 -0.31486	
/ERE	BPU - CITY OF MCPHERSON GA		1	51.0	-0.30491		LAWRENC	1	172.3	0.00995	-0.31486	
/ERE	BPU - CITY OF MCPHERSON STI		1	27.0	-0.30491		LAWRENC	1	172.3	0.00995	-0.31486	
/ERE /ERE	BPU - CITY OF MCPHERSON GA BPU - CITY OF MCPHERSON GA		1	50.0 52.0	-0.30491 -0.30491		TECUMSE TECUMSE	1	40.0 40.0	0.00847	-0.31338 -0.31338	
/ERE	BPU - CITY OF MCPHERSON GA		1	51.0	-0.30491		TECUMSE	1	40.0	0.00847	-0.31338	
/ERE	BPU - CITY OF MCPHERSON ST		1	27.0	-0.30491		TECUMSE	1	40.0	0.00847	-0.31338	
'ERE 'ERE	BPU - CITY OF MCPHERSON GA BPU - CITY OF MCPHERSON STI		1	79.0 27.0	-0.29789 -0.30491		TECUMSE TECUMSE	1	40.0 48.0	0.00847 0.00847	-0.30636 -0.31338	
ERE	BPU - CITY OF MCPHERSON GA	S TURBINE 4	1	79.0	-0.30491		TECUMSE	1	48.0	0.00847	-0.30636	L
'ERE	BPU - CITY OF MCPHERSON GA	S TURBINE 3	1	50.0	-0.30491	WERE	TECUMSE	1	48.0	0.00847	-0.31338	
/ERE /ERE	BPU - CITY OF MCPHERSON GA BPU - CITY OF MCPHERSON GA		1	52.0 51.0	-0.30491 -0.30491		TECUMSE TECUMSE	1	48.0 48.0	0.00847	-0.31338 -0.31338	!
/ERE	BPU - CITY OF MCPHERSON STI	EAM PLANT	1	27.0	-0.30491		EVANS EN	1	98.4	0.00847	-0.30531	l -
/ERE	BPU - CITY OF MCPHERSON GA	S TURBINE 4	1	79.0	-0.29789	WERE	EVANS EN	1	98.4	0.0004	-0.29829	
/ERE /ERE	BPU - CITY OF MCPHERSON GA BPU - CITY OF MCPHERSON GA		1	52.0 50.0	-0.30491 -0.30491		EVANS EN	1	98.4 98.4	0.0004 0.0004	-0.30531 -0.30531	
/ERE	BPU - CITY OF MCPHERSON GA		1	51.0	-0.30491		EVANS EN	1	98.4	0.0004	-0.30531	
ERE	BPU - CITY OF MCPHERSON GA		1	51.0	-0.30491	WERE	WACO	1	18.0	-0.00269	-0.30222	
'ERE	BPU - CITY OF MCPHERSON GA BPU - CITY OF MCPHERSON GA		1	50.0	-0.30491		WACO	1	18.0	-0.00269 -0.00269	-0.30222	
ERE	BPU - CITY OF MCPHERSON GA		1	52.0 27.0	-0.30491 -0.30491		WACO	1	18.0 18.0	-0.00269	-0.30222 -0.30222	
'ERE	BPU - CITY OF MCPHERSON GA		1	79.0	-0.29789		WACO	1	18.0	-0.00269	-0.2952	
ERE	BPU - CITY OF MCPHERSON GA		1	51.0	-0.30491		CITY OF V	1	16.3	-0.00159	-0.30332	
'ERE 'ERE	BPU - CITY OF MCPHERSON GA BPU - CITY OF MCPHERSON STI		1	52.0 27.0	-0.30491 -0.30491		CITY OF V	1	16.3 16.3	-0.00159 -0.00159	-0.30332 -0.30332	
/ERE	BPU - CITY OF MCPHERSON GA		1	50.0	-0.30491		CITY OF V	1	16.3	-0.00159	-0.30332	
/ERE	BPU - CITY OF MCPHERSON GA		1	79.0	-0.29789	WERE	CITY OF V	1	16.3	-0.00159	-0.2963	
/ERE /ERE	BPU - CITY OF MCPHERSON GA BPU - CITY OF MCPHERSON GA		1	52.0 50.0	-0.30491 -0.30491		CITY OF V	6	11.0 11.0	-0.00159 -0.00159	-0.30332 -0.30332	
/ERE	BPU - CITY OF MCPHERSON GA		1	79.0	-0.29789		CITY OF V	6	11.0	-0.00159	-0.2963	
/ERE	BPU - CITY OF MCPHERSON GA		1	51.0	-0.30491		CITY OF V	6	11.0	-0.00159	-0.30332	
/ERE /ERE	BPU - CITY OF MCPHERSON STI BPU - CITY OF MCPHERSON GA		1	27.0 51.0	-0.30491 -0.30491		CITY OF V	<u>6</u>	11.0 26.3	-0.00159 -0.00096	-0.30332 -0.30395	
/ERE	BPU - CITY OF MCPHERSON GA		1	79.0	-0.29789		CITY OF V	1	26.3	-0.00096	-0.29693	
/ERE	BPU - CITY OF MCPHERSON GA		1	52.0	-0.30491		CITY OF V	1	26.3	-0.00096	-0.30395	
/ERE /ERE	BPU - CITY OF MCPHERSON GA BPU - CITY OF MCPHERSON STI		1	50.0 27.0	-0.30491 -0.30491		CITY OF V	1	26.3 26.3	-0.00096 -0.00096	-0.30395 -0.30395	
/ERE	BPU - CITY OF MCPHERSON GA		1	52.0	-0.30491		CITY OF V	Ť	11.3	-0.00096	-0.30395	
'ERE	BPU - CITY OF MCPHERSON GA		1	79.0	-0.29789		CITY OF V	T	11.3	-0.00096	-0.29693	
ERE	BPU - CITY OF MCPHERSON GA BPU - CITY OF MCPHERSON GA		1	50.0 51.0	-0.30491 -0.30491		CITY OF V	T	11.3 11.3	-0.00096 -0.00096	-0.30395 -0.30395	
ERE	BPU - CITY OF MCPHERSON ST		1	27.0	-0.30491		CITY OF V	÷	11.3	-0.00096	-0.30395	
ERE	BPU - CITY OF MCPHERSON GA	S TURBINE 4	1	79.0	-0.29789	WERE	CHANUTE	1	30.6	0.00159	-0.29948	
ERE	BPU - CITY OF MCPHERSON GA		1	51.0	-0.30491		CHANUTE	1	30.6	0.00159	-0.3065	
ERE ERE	BPU - CITY OF MCPHERSON GA BPU - CITY OF MCPHERSON GA		1	52.0 50.0	-0.30491 -0.30491		CHANUTE	1	30.6 30.6	0.00159 0.00159	-0.3065 -0.3065	
ERE	BPU - CITY OF MCPHERSON ST	EAM PLANT	1	27.0	-0.30491	WERE	CHANUTE		30.6	0.00159	-0.3065	
ERE	BPU - CITY OF MCPHERSON GA		1	79.0	-0.29789		CITY OF E	1	20.0	0.00159	-0.29948	
ERE ERE	BPU - CITY OF MCPHERSON GA BPU - CITY OF MCPHERSON GA		1	50.0 52.0	-0.30491 -0.30491		CITY OF E	1	20.0 20.0	0.00159 0.00159	-0.3065 -0.3065	-
ERE	BPU - CITY OF MCPHERSON STI	EAM PLANT	1	27.0	-0.30491	WERE	CITY OF E	1	20.0	0.00159	-0.3065	
ERE	BPU - CITY OF MCPHERSON GA		1	51.0	-0.30491		CITY OF E	1	20.0	0.00159	-0.3065	
ERE ERE	HUTCHINSON ENERGY CENTER HUTCHINSON ENERGY CENTER		1	78.0 18.0	-0.24057 -0.24018		JEFFREY JEFFREY	1	470.0 470.0	0.02346 0.02346	-0.26403 -0.26364	<u> </u>
ERE	HUTCHINSON ENERGY CENTER	UNIT 4	1	151.0	-0.24018		JEFFREY	1	470.0	0.02346	-0.26404	L
ERE	HUTCHINSON ENERGY CENTER		1	50.0	-0.24039	WERE	JEFFREY	1	470.0	0.02346	-0.26385	
ERE ERE	HUTCHINSON ENERGY CENTER HUTCHINSON ENERGY CENTER		1	31.0 18.0	-0.24018 -0.24018		JEFFREY JEFFREY	1	470.0 470.0	0.02346 0.02346	-0.26364 -0.26364	
ERE	HUTCHINSON ENERGY CENTER	GAS TURBINE 1	1	52.0	-0.24018		JEFFREY	1	470.0	0.02346	-0.26365	l -
ERE	HUTCHINSON ENERGY CENTER	GAS TURBINE 3	1	52.0	-0.24057	WERE	JEFFREY	1	470.0	0.02346	-0.26403	
ERE ERE	HUTCHINSON ENERGY CENTER HUTCHINSON ENERGY CENTER		1	31.0 50.0	-0.24018 -0.24039		JEFFREY JEFFREY	1	470.0 470.0	0.02346 0.02346	-0.26364 -0.26385	<u> </u>
ERE	HUTCHINSON ENERGY CENTER HUTCHINSON ENERGY CENTER		1	50.0 151.0	-0.24039 -0.24058		JEFFREY	1	470.0 470.0	0.02346	-0.26385 -0.26404	l -
ERE	HUTCHINSON ENERGY CENTER	GAS TRUBINE 4	1	78.0	-0.24057	WERE	JEFFREY	1	470.0	0.02346	-0.26403	
ERE	HUTCHINSON ENERGY CENTER HUTCHINSON ENERGY CENTER		1	52.0	-0.24019		JEFFREY	1	470.0	0.02346	-0.26365	
ERE ERE	HUTCHINSON ENERGY CENTER HUTCHINSON ENERGY CENTER		1	18.0 52.0	-0.24018 -0.24057		JEFFREY JEFFREY	1	470.0 470.0	0.02346 0.02346	-0.26364 -0.26403	-
ERE	HUTCHINSON ENERGY CENTER	UNIT 1	1	18.0	-0.24018	WERE	JEFFREY	1	470.0	0.02346	-0.26364	
ERE	HUTCHINSON ENERGY CENTER		1	151.0	-0.24058		JEFFREY	1	470.0	0.01647	-0.25705	
ERE ERE	HUTCHINSON ENERGY CENTER HUTCHINSON ENERGY CENTER		1	52.0 78.0	-0.24019 -0.24057		JEFFREY JEFFREY	1	470.0 470.0	0.01647 0.01647	-0.25666 -0.25704	
ERE	HUTCHINSON ENERGY CENTER		1	78.0	-0.24057		JEFFREY	1	470.0	0.01647	-0.25704	
ERE	HUTCHINSON ENERGY CENTER	UNIT 2	1	18.0	-0.24018	WERE	JEFFREY	1	470.0	0.01647	-0.25665	
ERE	HUTCHINSON ENERGY CENTER		1	52.0	-0.24057		JEFFREY	1	470.0	0.01647	-0.25704	
ERE ERE	HUTCHINSON ENERGY CENTER HUTCHINSON ENERGY CENTER		1	18.0 50.0	-0.24018 -0.24039		JEFFREY JEFFREY	1	470.0 470.0	0.01647 0.01647	-0.25665 -0.25686	-
ERE	HUTCHINSON ENERGY CENTER		1	50.0	-0.24039		LAWRENC	1	172.3	0.01647	-0.25034	1
ERE	HUTCHINSON ENERGY CENTER	UNIT 2	1	18.0	-0.24018	WERE	LAWRENC	1	172.3	0.00995	-0.25013	
ERE	HUTCHINSON ENERGY CENTER HUTCHINSON ENERGY CENTER		1	31.0 151.0	-0.24018 -0.24058		LAWRENC	1	172.3 172.3	0.00995	-0.25013 -0.25053	<u> </u>
ERE	HUTCHINSON ENERGY CENTER		1	52.0	-0.24058		LAWRENC	1	172.3	0.00995	-0.25053	
	HUTCHINSON ENERGY CENTER			18.0		WERE	LAWRENC		172.3	0.00995	-0.25013	

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

 $\underline{\textbf{Table 6}} \text{ - Potential Redispatch Relief Pairs to Prevent Deferral of Service}$

Upgrade: Limiting Facility:	Wichita - Reno Co 345KV NORTH AMERICAN PHILIPS - NORTH A	MERICAN P	HILIPS JUN	NCTION (SC	UTH) 115K\	CKT 1						
Direction: Line Outage:	From->To EAST MCPHERSON - SUMMIT 230KV C				,							
Flowgate:	57372573741568725687312206FA											
Date Redispatch Needed:	10/1/06 - 12/1/06, 10/1/07 - 12/1/07, 10/1/	08 - 12/1/08,	& 10/1/09 - Aggregate	12/1/09								
Reservation	Relief Amount		Relief Amount									
974662	0.4		0.9									
974988	0.5		0.9	Maximum		Sink			Maximum			Redispatch
Source Control Area	Source		Source Id	Increment (MW)	GSF	Control Area	Sink	Sink Id	Decrement (MW)	GSF	Factor	Amount (MW)
WERE WERE	HUTCHINSON ENERGY CENTER UNIT		1	31.0 18.0	-0.42218 -0.42218		JEFFREY JEFFREY	1	470.0 470.0	0.03544 0.03544	-0.45762 -0.45762	
WERE	HUTCHINSON ENERGY CENTER UNIT	1	1	18.0	-0.42218	WERE	JEFFREY	1	470.0	0.03544	-0.45762	
WERE WERE	HUTCHINSON ENERGY CENTER GAS THUTCHINSON ENERGY CENTER GAS TO		1	78.0 50.0	-0.42285 -0.42253	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.03544 0.03544	-0.45829 -0.45797	
WERE WERE	BPU - CITY OF MCPHERSON STEAM PI HUTCHINSON ENERGY CENTER UNIT		1	27.0 151.0	-0.53361 -0.42286	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.03544 0.03544	-0.56905 -0.4583	
WERE	BPU - CITY OF MCPHERSON GAS TUR	BINE 2	1	52.0	-0.53361	WERE	JEFFREY	1	470.0	0.03544	-0.56905	
WERE WERE	BPU - CITY OF MCPHERSON GAS TUR HUTCHINSON ENERGY CENTER GAS T	TURBINE 3	1	51.0 52.0	-0.53361 -0.42285	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.03544 0.03544	-0.56905 -0.45829	
WERE WERE	BPU - CITY OF MCPHERSON GAS TURI HUTCHINSON ENERGY CENTER GAS T		1	50.0 52.0	-0.53361 -0.42219	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.03544	-0.56905 -0.45763	
WERE WERE	BPU - CITY OF MCPHERSON GAS TURI HUTCHINSON ENERGY CENTER GAS T	BINE 4	1	79.0 52.0	-0.52157 -0.42219	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.03544 0.03662	-0.55701 -0.45881	
WERE	HUTCHINSON ENERGY CENTER GAS	TURBINE 2	1	50.0	-0.42253	WERE	JEFFREY	1	470.0	0.03662	-0.45915	
WERE WERE	HUTCHINSON ENERGY CENTER GAS T BPU - CITY OF MCPHERSON STEAM PI		1	52.0 27.0	-0.42285 -0.53361	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.03662 0.03662	-0.45947 -0.57023	
WERE WERE	BPU - CITY OF MCPHERSON GAS TUR BPU - CITY OF MCPHERSON GAS TUR		1	51.0 52.0	-0.53361 -0.53361	WERE	JEFFREY JEFFREY	1	470.0 470.0	0.03662 0.03662	-0.57023 -0.57023	
WERE	BPU - CITY OF MCPHERSON GAS TUR	BINE 3	1 1	50.0	-0.53361	WERE	JEFFREY	1	470.0	0.03662	-0.57023	
WERE WERE	BPU - CITY OF MCPHERSON GAS TUR HUTCHINSON ENERGY CENTER UNIT	4	1	79.0 151.0	-0.52157 -0.42286	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.03662 0.03662	-0.55819 -0.45948	
WERE WERE	HUTCHINSON ENERGY CENTER UNIT HUTCHINSON ENERGY CENTER UNIT		1	18.0 31.0	-0.42218 -0.42218	WERE WERE	JEFFREY JEFFREY	1 1	470.0 470.0	0.03662 0.03662	-0.4588 -0.4588	
WERE WERE	HUTCHINSON ENERGY CENTER UNIT	1	1	18.0 78.0	-0.42218 -0.42285		JEFFREY JEFFREY	1	470.0 470.0	0.03662	-0.4588 -0.45947	
WERE	HUTCHINSON ENERGY CENTER UNIT	2	1	18.0	-0.42218	WERE	JEFFREY	1	470.0	0.03662	-0.4588	
WERE WERE	HUTCHINSON ENERGY CENTER UNIT BPU - CITY OF MCPHERSON STEAM PI		1	31.0 27.0	-0.42218 -0.53361	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.03662 0.03662	-0.4588 -0.57023	:
WERE WERE	BPU - CITY OF MCPHERSON GAS TUR BPU - CITY OF MCPHERSON GAS TUR		1	51.0 52.0	-0.53361 -0.53361	WERE	JEFFREY JEFFREY	1	470.0 470.0	0.03662 0.03662	-0.57023 -0.57023	:
WERE	HUTCHINSON ENERGY CENTER UNIT	4	1	151.0	-0.42286	WERE	JEFFREY	1	470.0	0.03662	-0.45948	
WERE WERE	BPU - CITY OF MCPHERSON GAS TUR BPU - CITY OF MCPHERSON GAS TUR	BINE 4	1	50.0 79.0	-0.53361 -0.52157	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.03662 0.03662	-0.57023 -0.55819	
WERE WERE	HUTCHINSON ENERGY CENTER GAS THUTCHINSON ENERGY CENTER GAS TO		1	78.0 52.0	-0.42285 -0.42285	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.03662	-0.45947 -0.45947	- :
WERE WERE	HUTCHINSON ENERGY CENTER UNIT HUTCHINSON ENERGY CENTER GAS	1	1	18.0 52.0		WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.03662 0.03662	-0.4588 -0.45881	:
WERE	HUTCHINSON ENERGY CENTER GAS 1	TURBINE 2	1	50.0	-0.42253	WERE	JEFFREY	1	470.0	0.03662	-0.45915	
WERE WERE	HUTCHINSON ENERGY CENTER UNIT BPU - CITY OF MCPHERSON GAS TUR		1	31.0 79.0	-0.42218 -0.52157	WERE WERE	LAWRENC LAWRENC	1	172.3 172.3	0.02272 0.02272	-0.4449 -0.54429	:
WERE WERE	BPU - CITY OF MCPHERSON GAS TUR BPU - CITY OF MCPHERSON GAS TUR		1	50.0 52.0	-0.53361 -0.53361	WERE	LAWRENC	1	172.3 172.3	0.02272	-0.55633 -0.55633	2
WERE	HUTCHINSON ENERGY CENTER UNIT	1	1	18.0	-0.42218	WERE	LAWRENC	1	172.3	0.02272	-0.4449	2
WERE WERE	BPU - CITY OF MCPHERSON STEAM PI HUTCHINSON ENERGY CENTER GAS T	TRUBINE 4	1	27.0 78.0	-0.53361 -0.42285	WERE WERE	LAWRENC LAWRENC	1	172.3 172.3	0.02272 0.02272	-0.55633 -0.44557	:
WERE WERE	HUTCHINSON ENERGY CENTER GAS THUTCHINSON ENERGY CENTER UNIT		1	52.0 151.0	-0.42285 -0.42286	WERE WERE	LAWRENC	1	172.3 172.3	0.02272	-0.44557 -0.44558	- :
WERE WERE	HUTCHINSON ENERGY CENTER GAS THUTCHINSON ENERGY CENTER GAS THUTCHINSON ENERGY CENTER GAS THE CONTROL OF THE CON	TURBINE 2	1	50.0 52.0	-0.42253 -0.42219	WERE WERE	LAWRENC	1	172.3 172.3	0.02272 0.02272	-0.44525 -0.44491	:
WERE	BPU - CITY OF MCPHERSON GAS TUR	BINE 1	1	51.0	-0.53361	WERE	LAWRENC	1	172.3	0.02272	-0.55633	
WERE WERE	HUTCHINSON ENERGY CENTER UNIT BPU - CITY OF MCPHERSON GAS TUR		1	18.0 51.0	-0.42218 -0.53361	WERE WERE	TECUMSE	1	172.3 40.0	0.02272 0.02643	-0.4449 -0.56004	:
WERE WERE	HUTCHINSON ENERGY CENTER GAS T BPU - CITY OF MCPHERSON STEAM PI		1	78.0 27.0	-0.42285 -0.53361	WERE WERE	TECUMSE TECUMSE	1	40.0 40.0	0.02643 0.02643	-0.44928 -0.56004	
WERE WERE	HUTCHINSON ENERGY CENTER UNIT HUTCHINSON ENERGY CENTER GAS	3	1	31.0 52.0	-0.42218 -0.42219	WERE WERE	TECUMSE TECUMSE	1	40.0 40.0	0.02643 0.02643	-0.44861 -0.44862	:
WERE	BPU - CITY OF MCPHERSON GAS TUR	BINE 4	1	79.0	-0.52157	WERE	TECUMSE		40.0	0.02643	-0.548	
WERE WERE	BPU - CITY OF MCPHERSON GAS TUR HUTCHINSON ENERGY CENTER GAS	TURBINE 2	1	50.0 50.0	-0.53361 -0.42253	WERE	TECUMSE TECUMSE	1	40.0 40.0	0.02643 0.02643	-0.56004 -0.44896	
WERE WERE	HUTCHINSON ENERGY CENTER UNIT		1	18.0 151.0	-0.42218 -0.42286		TECUMSE TECUMSE	1	40.0 40.0	0.02643	-0.44861 -0.44929	
WERE	HUTCHINSON ENERGY CENTER GAS 1	TURBINE 3	1	52.0	-0.42285	WERE	TECUMSE	1	40.0	0.02643	-0.44928	
WERE WERE	BPU - CITY OF MCPHERSON GAS TUR HUTCHINSON ENERGY CENTER UNIT	1	1	52.0 18.0	-0.53361 -0.42218	WERE	TECUMSE TECUMSE	1	40.0 40.0	0.02643 0.02643	-0.56004 -0.44861	
WERE WERE	BPU - CITY OF MCPHERSON GAS TUR HUTCHINSON ENERGY CENTER UNIT		1	79.0 18.0	-0.52157 -0.42218	WERE WERE	TECUMSE TECUMSE		48.0 48.0	0.02643 0.02643	-0.548 -0.44861	
WERE WERE	HUTCHINSON ENERGY CENTER GAS T BPU - CITY OF MCPHERSON GAS TUR	TURBINE 2	1	50.0 50.0	-0.42253 -0.53361	WERE WERE	TECUMSE TECUMSE	1	48.0 48.0	0.02643 0.02643	-0.44896 -0.56004	
WERE	HUTCHINSON ENERGY CENTER GAS 1	TURBINE 1	1	52.0	-0.42219	WERE	TECUMSE	1	48.0	0.02643	-0.44862	
WERE WERE	HUTCHINSON ENERGY CENTER GAS T BPU - CITY OF MCPHERSON GAS TUR	BINE 2	1	78.0 52.0		WERE WERE	TECUMSE TECUMSE	1	48.0 48.0	0.02643 0.02643	-0.44928 -0.56004	
WERE WERE	BPU - CITY OF MCPHERSON STEAM PI HUTCHINSON ENERGY CENTER UNIT		1	27.0 31.0	-0.53361 -0.42218	WERE WERE	TECUMSE TECUMSE		48.0 48.0	0.02643 0.02643	-0.56004 -0.44861	
WERE WERE	HUTCHINSON ENERGY CENTER UNIT HUTCHINSON ENERGY CENTER GAST	1	1	18.0 52.0	-0.42218 -0.42285	WERE	TECUMSE	1	48.0 48.0	0.02643	-0.44861 -0.44928	
WERE	BPU - CITY OF MCPHERSON GAS TUR	BINE 1	1	51.0	-0.53361	WERE	TECUMSE	1	48.0	0.02643	-0.56004	
WERE WERE	HUTCHINSON ENERGY CENTER UNIT HUTCHINSON ENERGY CENTER GAS	TURBINE 2	1	151.0 50.0	-0.42286 -0.42253	WERE	TECUMSE EVANS EN		48.0 98.4	0.02643 0.00066	-0.44929 -0.42319	
WERE WERE	HUTCHINSON ENERGY CENTER GAS THUTCHINSON ENERGY CENTER UNIT		1	52.0 18.0	-0.42285 -0.42218		EVANS EN	1	98.4 98.4	0.00066 0.00066	-0.42351 -0.42284	
WERE	BPU - CITY OF MCPHERSON GAS TUR	BINE 3	1	50.0	-0.53361	WERE	EVANS EN	1	98.4	0.00066	-0.53427	
WERE WERE	BPU - CITY OF MCPHERSON GAS TUR HUTCHINSON ENERGY CENTER UNIT	3	1	79.0 31.0	-0.52157 -0.42218		EVANS EN	1	98.4 98.4	0.00066 0.00066	-0.52223 -0.42284	
WERE WERE	HUTCHINSON ENERGY CENTER UNIT : BPU - CITY OF MCPHERSON GAS TUR		1	18.0 51.0	-0.42218 -0.53361	WERE WERE	EVANS EN	1	98.4 98.4	0.00066 0.00066	-0.42284 -0.53427	
WERE WERE	BPU - CITY OF MCPHERSON GAS TUR HUTCHINSON ENERGY CENTER GAS T	BINE 2	1	52.0 52.0		WERE WERE	EVANS EN	1	98.4 98.4	0.00066	-0.53427 -0.42285	
WERE	BPU - CITY OF MCPHERSON STEAM PI	LANT	1	27.0	-0.53361	WERE	EVANS EN	1	98.4	0.00066	-0.53427	
WERE WERE	HUTCHINSON ENERGY CENTER GAS THUTCHINSON ENERGY CENTER UNIT	4	1	78.0 151.0	-0.42285 -0.42286		EVANS EN	1	98.4 98.4	0.00066 0.00066	-0.42351 -0.42352	
WERE WERE	BPU - CITY OF MCPHERSON GAS TUR BPU - CITY OF MCPHERSON GAS TUR		1	50.0 52.0	-0.53361 -0.53361	WERE WERE	WACO	1	18.0 18.0	-0.00488 -0.00488	-0.52873 -0.52873	
WERE	HUTCHINSON ENERGY CENTER UNIT	4	1 1	151.0	-0.42286	WERE	WACO	1	18.0	-0.00488	-0.41798	
WERE WERE	HUTCHINSON ENERGY CENTER UNIT BPU - CITY OF MCPHERSON GAS TUR	BINE 1	1	31.0 51.0	-0.53361	WERE	WACO WACO	1	18.0 18.0	-0.00488 -0.00488	-0.4173 -0.52873	
WERE WERE	HUTCHINSON ENERGY CENTER GAS T BPU - CITY OF MCPHERSON STEAM PI		1	78.0 27.0	-0.42285 -0.53361	WERE WERE	WACO	1	18.0 18.0	-0.00488 -0.00488	-0.41797 -0.52873	
WERE WERE	HUTCHINSON ENERGY CENTER GAS THUTCHINSON ENERGY CENTER GAS THUTCHI	TURBINE 2	1	50.0 52.0		WERE	WACO	1	18.0 18.0	-0.00488	-0.41765 -0.41797	
**LIXL	I TO TOTHINGON LINERGT CENTER GAS	OLYDINE 3	0: 1 0	52.0	-0.42265	WEINE	VVACO	-994	10.0	-0.00468	-0.41/9/	2

WERE HUTCHINSON ENERGY CENTER GAS TURBINE 2 1 55.0 -0.42285 WERE WACO 1

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

 $\underline{\textbf{Table 6}} \text{ - Potential Redispatch Relief Pairs to Prevent Deferral of Service}$

Upgrade: Limiting Facility:	Wichita - Reno Co 345KV NORTH AMERICAN PHILIPS JUNCTION (SOUTH) - \	NEST MC	HERSON 1	15KV CKT 1							
imiting Facility: Direction:	From->To	WEST MCP	HERSON 1	15KV CK I 1							
ine Outage:	EAST MCPHERSON - SUMMIT 230KV CKT 1										
Flowgate: Date Redispatch Needed:	57374574381568725687312206FA 10/1/06 - 12/1/06, 10/1/07 - 12/1/07, 10/1/08 - 12/1/08,	& 10/1/09 -	12/1/09								
		Aggregate Relief	1								
Reservation	Relief Amount	Amount									
974662 974988	0.2 0.2	0.4									
974900	0.2	0.4	Maximum		Sink			Maximum			Redispat
Source Control Area	Source	Source Id	Increment (MW)	GSF	Control Area	Sink	Sink Id	Decrement (MW)	GSF	Factor	Amoun (MW)
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.24255	WERE	JEFFREY	1	470.0	0.01648	-0.25903	(10100)
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1 BPU - CITY OF MCPHERSON STEAM PLANT	1	51.0 27.0	-0.24815 -0.24815	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01648 0.01648	-0.26463 -0.26463	
WERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0	-0.19633	WERE	JEFFREY	1	470.0	0.01648	-0.21281	
VERE VERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4 HUTCHINSON ENERGY CENTER UNIT 2	1	78.0 18.0	-0.19664 -0.19633	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01648	-0.21312 -0.21281	
VERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.19664	WERE	JEFFREY	1	470.0	0.01648	-0.21312	
VERE VERE	HUTCHINSON ENERGY CENTER UNIT 3 HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	31.0 50.0	-0.19633 -0.19649	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01648	-0.21281 -0.21297	
VERE	HUTCHINSON ENERGY CENTER UNIT 4	1	151.0	-0.19664	WERE	JEFFREY	1	470.0	0.01648	-0.21312	
VERE VERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1 BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0 52.0	-0.19633 -0.24815	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01648 0.01648	-0.21281 -0.26463	
VERE VERE	BPU - CITY OF MCPHERSON GAS TURBINE 3 BPU - CITY OF MCPHERSON GAS TURBINE 4	1	50.0 79.0	-0.24815 -0.24255	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01648	-0.26463 -0.25958	
VERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.24815	WERE	JEFFREY	1	470.0	0.01703	-0.26518	
VERE VERE	BPU - CITY OF MCPHERSON GAS TURBINE 2 HUTCHINSON ENERGY CENTER UNIT 3	1	52.0 31.0	-0.24815 -0.19633	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01703	-0.26518 -0.21336	
VERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.19664	WERE	JEFFREY	1	470.0	0.01703	-0.21367	
VERE VERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4 HUTCHINSON ENERGY CENTER UNIT 4	1	78.0 151.0	-0.19664 -0.19664	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01703 0.01703	-0.21367 -0.21367	
VERE VERE	HUTCHINSON ENERGY CENTER UNIT 2 HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	18.0 50.0	-0.19633 -0.19649	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01703 0.01703	-0.21336 -0.21352	
VERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0	-0.19633	WERE	JEFFREY	1	470.0	0.01703	-0.21336	
VERE VERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1 BPU - CITY OF MCPHERSON GAS TURBINE 1	1	52.0 51.0	-0.19633 -0.24815	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01703 0.01703	-0.21336 -0.26518	
VERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.24815	WERE	JEFFREY	1	470.0	0.01703	-0.26518	
VERE VERE	BPU - CITY OF MCPHERSON GAS TURBINE 4 HUTCHINSON ENERGY CENTER UNIT 2	1	79.0 18.0	-0.24255 -0.19633	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01703 0.01703	-0.25958 -0.21336	
VERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	78.0	-0.19664	WERE	JEFFREY	1	470.0	0.01703	-0.21367	
VERE VERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3 HUTCHINSON ENERGY CENTER UNIT 1	1	52.0 18.0	-0.19664 -0.19633	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01703 0.01703	-0.21367 -0.21336	
VERE VERE	BPU - CITY OF MCPHERSON STEAM PLANT HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	27.0 52.0	-0.24815 -0.19633	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01703 0.01703	-0.26518 -0.21336	
VERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	50.0	-0.19633	WERE	JEFFREY	1	470.0	0.01703	-0.21352	
VERE VERE	HUTCHINSON ENERGY CENTER UNIT 4 BPU - CITY OF MCPHERSON GAS TURBINE 2	1	151.0 52.0	-0.19664 -0.24815	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01703 0.01703	-0.21367 -0.26518	
VERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.24815	WERE	JEFFREY	1	470.0	0.01703	-0.26518	
VERE VERE	BPU - CITY OF MCPHERSON GAS TURBINE 3 HUTCHINSON ENERGY CENTER UNIT 3	1	50.0 31.0	-0.24815 -0.19633	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01703	-0.26518 -0.21336	
VERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.24255	WERE	LAWRENC	1	172.3	0.01056	-0.25311	
VERE VERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4 BPU - CITY OF MCPHERSON STEAM PLANT	1	78.0 27.0	-0.19664 -0.24815	WERE WERE	LAWRENC LAWRENC	1	172.3 172.3	0.01056 0.01056	-0.2072 -0.25871	
VERE VERE	BPU - CITY OF MCPHERSON GAS TURBINE 1 HUTCHINSON ENERGY CENTER UNIT 1	1	51.0 18.0	-0.24815 -0.19633	WERE WERE	LAWRENC LAWRENC	1	172.3 172.3	0.01056 0.01056	-0.25871 -0.20689	
VERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.19633	WERE	LAWRENC	1	172.3	0.01056	-0.25871	
VERE VERE	HUTCHINSON ENERGY CENTER UNIT 4 HUTCHINSON ENERGY CENTER UNIT 2	1	151.0 18.0	-0.19664 -0.19633	WERE WERE	LAWRENC	1	172.3 172.3	0.01056 0.01056	-0.2072 -0.20689	
VERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0	-0.19633	WERE	LAWRENC	1	172.3	0.01056	-0.20689	
VERE VERE	BPU - CITY OF MCPHERSON GAS TURBINE 3 HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	50.0 50.0	-0.24815 -0.19649	WERE WERE	LAWRENC	1	172.3 172.3	0.01056 0.01056	-0.25871 -0.20705	
VERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.19664	WERE	LAWRENC	1	172.3	0.01056	-0.2072	
VERE VERE	HUTCHINSON ENERGY CENTER UNIT 3 BPU - CITY OF MCPHERSON GAS TURBINE 3	1	31.0 50.0	-0.19633 -0.24815	WERE WERE	TECUMSE	1	172.3 40.0	0.01056 0.01229	-0.20689 -0.26044	
VERE VERE	BPU - CITY OF MCPHERSON GAS TURBINE 4 HUTCHINSON ENERGY CENTER UNIT 1	1	79.0 18.0	-0.24255 -0.19633	WERE WERE	TECUMSE TECUMSE	1	40.0 40.0	0.01229 0.01229	-0.25484 -0.20862	
VERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.24815	WERE	TECUMSE	1	40.0	0.01229	-0.26044	
VERE VERE	HUTCHINSON ENERGY CENTER UNIT 2 HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	18.0 78.0	-0.19633 -0.19664	WERE	TECUMSE TECUMSE	1	40.0 40.0	0.01229	-0.20862 -0.20893	
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.19664	WERE	TECUMSE	1	40.0	0.01229	-0.20893	
VERE VERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1 BPU - CITY OF MCPHERSON GAS TURBINE 1	1	52.0 51.0	-0.19633 -0.24815	WERE WERE	TECUMSE TECUMSE	1	40.0 40.0	0.01229 0.01229	-0.20862 -0.26044	
VERE VERE	HUTCHINSON ENERGY CENTER UNIT 3 BPU - CITY OF MCPHERSON STEAM PLANT	1	31.0 27.0	-0.19633 -0.24815	WERE WERE	TECUMSE TECUMSE	1	40.0 40.0	0.01229 0.01229	-0.20862 -0.26044	
VERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	50.0	-0.19649	WERE	TECUMSE	1	40.0	0.01229	-0.20878	
VERE VERE	HUTCHINSON ENERGY CENTER UNIT 4 BPU - CITY OF MCPHERSON GAS TURBINE 3	1	151.0 50.0	-0.19664 -0.24815	WERE WERE	TECUMSE	1	40.0 48.0	0.01229	-0.20893 -0.26044	
VERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.24255	WERE	TECUMSE	1	48.0	0.01229	-0.25484	
VERE VERE	HUTCHINSON ENERGY CENTER UNIT 1 HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	18.0 52.0	-0.19633 -0.19633	WERE WERE	TECUMSE TECUMSE	1	48.0 48.0	0.01229 0.01229	-0.20862 -0.20862	
VERE VERE	BPU - CITY OF MCPHERSON GAS TURBINE 1 HUTCHINSON ENERGY CENTER UNIT 4	1	51.0 151.0	-0.24815 -0.19664	WERE	TECUMSE	1	48.0 48.0	0.01229 0.01229	-0.26044 -0.20893	
VERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.24815	WERE WERE	TECUMSE	1	48.0	0.01229	-0.26044	
VERE VERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3 HUTCHINSON ENERGY CENTER UNIT 3	1	52.0 31.0	-0.19664 -0.19633	WERE WERE	TECUMSE	1	48.0 48.0	0.01229	-0.20893 -0.20862	
VERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0	-0.19633	WERE	TECUMSE	1	48.0	0.01229	-0.20862	
VERE VERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4 BPU - CITY OF MCPHERSON GAS TURBINE 2	1	78.0 52.0	-0.24815	WERE WERE	TECUMSE TECUMSE	1	48.0 48.0	0.01229 0.01229	-0.20893 -0.26044	
VERE VERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	50.0 50.0	-0.19649	WERE	TECUMSE EVANS EN	1	48.0 98.4	0.01229	-0.20878 -0.24845	
VERE	BPU - CITY OF MCPHERSON GAS TURBINE 3 BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.24255	WERE WERE	EVANS EN	1	98.4	0.0003	-0.24285	
VERE VERE	BPU - CITY OF MCPHERSON GAS TURBINE 1 HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	51.0 78.0	-0.24815 -0.19664	WERE WERE	EVANS EN	1	98.4 98.4	0.0003	-0.24845 -0.19694	
VERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0	-0.19633	WERE	EVANS EN	1	98.4	0.0003	-0.19663	
VERE VERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3 HUTCHINSON ENERGY CENTER UNIT 4	1	52.0 151.0		WERE WERE	EVANS EN	1	98.4 98.4	0.0003	-0.19694 -0.19694	
VERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	50.0	-0.19649	WERE	EVANS EN	1	98.4	0.0003	-0.19679	
VERE VERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1 BPU - CITY OF MCPHERSON STEAM PLANT	1	52.0 27.0	-0.19633 -0.24815	WERE	EVANS EN	1	98.4 98.4	0.0003	-0.19663 -0.24845	
VERE	HUTCHINSON ENERGY CENTER UNIT 3	1	31.0	-0.19633	WERE	EVANS EN	1	98.4	0.0003	-0.19663	
VERE VERE	HUTCHINSON ENERGY CENTER UNIT 1 BPU - CITY OF MCPHERSON GAS TURBINE 2	1	18.0 52.0	-0.19633 -0.24815	WERE WERE	EVANS EN	1	98.4 98.4	0.0003 0.0003	-0.19663 -0.24845	L
VERE VERE	BPU - CITY OF MCPHERSON GAS TURBINE 3 BPU - CITY OF MCPHERSON GAS TURBINE 4	1	50.0 79.0	-0.24815 -0.24255	WERE	WACO	1	18.0 18.0	-0.00227 -0.00227	-0.24588 -0.24028	
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.24815	WERE WERE	WACO	1	18.0	-0.00227	-0.24588	
VERE VERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3 HUTCHINSON ENERGY CENTER UNIT 3	1	52.0 31.0	-0.19664 -0.19633	WERE WERE	WACO	1	18.0 18.0	-0.00227 -0.00227	-0.19437 -0.19406	
WERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0	-0.19633	WERE	WACO	1	18.0	-0.00227	-0.19406	
VERE VERE	HUTCHINSON ENERGY CENTER UNIT 2 HUTCHINSON ENERGY CENTER UNIT 4	1	18.0 151.0	-0.19633 -0.19664	WERE	WACO WACO	1	18.0 18.0	-0.00227 -0.00227	-0.19406 -0.19437	<u> </u>
VERE	HUTCHINSON ENERGY CENTER GNIT 4 HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	50.0	-0.19649		WACO	1	18.0	-0.00227	-0.19437	

-0.19664 WERE -0.19649 WERE WERE HUTCHINSON I
Maximum Decrement and Maximum Increment
Factor = Source GSF - Sink GSF
Redispatch Amount = Relief Amount / Factor

 $\underline{\textbf{Table 6}} \text{ - Potential Redispatch Relief Pairs to Prevent Deferral of Service}$

Upgrade: Limiting Facility:	Wichita - Reno Co 345KV NORTH AMERICAN PHILIPS JUNCTION (SOUTH) -	WEST MCF	PHERSON 1	15KV CKT 2							
Direction: Line Outage:	From->To EAST MCPHERSON - SUMMIT 230KV CKT 1										
Flowgate:	57374574382568725687312206FA	9.40/4/00	40/4/00								
Date Redispatch Needed:	10/1/06 - 12/1/06, 10/1/07 - 12/1/07, 10/1/08 - 12/1/08	Aggregate Relief	12/1/09								
Reservation 974662	Relief Amount 0,2	Amount 0.5									
974988	0.3	0.5			6: 1	•				•	D :
			Maximum Increment		Sink Control			Maximum Decrement			Redispatch Amount
Source Control Area WERE	Source HUTCHINSON ENERGY CENTER UNIT 1	Source Id	(MW) 18.0	GSF -0.22585	Area WERE	Sink JEFFREY	Sink Id	(MW) 470.0	GSF 0.01896	Factor -0.24481	(MW)
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.28547	WERE	JEFFREY	1	470.0	0.01896	-0.30443	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 4 BPU - CITY OF MCPHERSON GAS TURBINE 4	1	151.0 79.0	-0.22622 -0.27903	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01896 0.01896	-0.24518 -0.29799	2
WERE WERE	BPU - CITY OF MCPHERSON STEAM PLANT HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	27.0 52.0	-0.28547 -0.22621	WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01896 0.01896	-0.30443 -0.24517	2
WERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0	-0.22585	WERE	JEFFREY	1	470.0	0.01896	-0.24481	
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2 HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	52.0 50.0	-0.28547 -0.22604	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01896 0.01896	-0.30443 -0.245	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1 HUTCHINSON ENERGY CENTER UNIT 3	1	51.0 31.0	-0.28547 -0.22585	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01896 0.01896	-0.30443 -0.24481	2
WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	78.0	-0.22621	WERE	JEFFREY	1	470.0	0.01896	-0.24517	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1 BPU - CITY OF MCPHERSON GAS TURBINE 3	1	52.0 50.0		WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01896 0.01959	-0.24482 -0.30506	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 2 HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	18.0 52.0	-0.22585 -0.22586	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01959 0.01959	-0.24544 -0.24545	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2 BPU - CITY OF MCPHERSON GAS TURBINE 1	1	52.0 51.0	-0.28547	WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01959 0.01959	-0.30506 -0.30506	2
WERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0	-0.22585	WERE	JEFFREY	1	470.0	0.01959	-0.24544	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 4 HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	151.0 52.0	-0.22622 -0.22621	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01959 0.01959	-0.24581 -0.2458	14
WERE WERE	BPU - CITY OF MCPHERSON STEAM PLANT BPU - CITY OF MCPHERSON GAS TURBINE 4	1	27.0 79.0		WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01959 0.01959	-0.30506 -0.29862	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 3 HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	31.0 50.0	-0.22585 -0.22604	WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01959 0.01959	-0.24544 -0.24563	2
WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	78.0	-0.22621	WERE	JEFFREY	1	470.0	0.01959	-0.2458	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 2 HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	18.0 78.0	-0.22585 -0.22621	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01959 0.01959	-0.24544 -0.2458	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1 HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	51.0 52.0	-0.28547 -0.22621		JEFFREY JEFFREY	1	470.0 470.0	0.01959 0.01959	-0.30506 -0.2458	2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2 BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.22604	WERE	JEFFREY	1	470.0 470.0	0.01959	-0.24563	2
WERE WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	50.0 27.0	-0.28547		JEFFREY JEFFREY	1	470.0	0.01959 0.01959	-0.30506 -0.30506	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 1 BPU - CITY OF MCPHERSON GAS TURBINE 2	1	18.0 52.0	-0.22585 -0.28547	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01959 0.01959	-0.24544 -0.30506	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 4 HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	151.0 52.0	-0.22622 -0.22586	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01959 0.01959	-0.24581 -0.24545	2
WERE	HUTCHINSON ENERGY CENTER UNIT 3	1	31.0	-0.22585	WERE	JEFFREY	1	470.0	0.01959	-0.24544	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4 HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	79.0 52.0	-0.27903 -0.22586	WERE WERE	JEFFREY LAWRENC	1	470.0 172.3	0.01959 0.01215	-0.29862 -0.23801	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4 BPU - CITY OF MCPHERSON GAS TURBINE 1	1	79.0 51.0	-0.27903 -0.28547	WERE WERE	LAWRENC	1	172.3 172.3	0.01215 0.01215	-0.29118 -0.29762	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3 HUTCHINSON ENERGY CENTER UNIT 2	1	52.0 18.0	-0.22621		LAWRENC	1	172.3 172.3	0.01215 0.01215	-0.23836 -0.238	2
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.28547	WERE	LAWRENC	1	172.3	0.01215	-0.29762	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 1 HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	18.0 50.0	-0.22585 -0.22604		LAWRENC LAWRENC	1	172.3 172.3	0.01215 0.01215	-0.238 -0.23819	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4 BPU - CITY OF MCPHERSON GAS TURBINE 2	1	78.0 52.0	-0.22621 -0.28547	WERE WERE	LAWRENC	1	172.3 172.3	0.01215 0.01215	-0.23836 -0.29762	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3 HUTCHINSON ENERGY CENTER UNIT 3	1	50.0 31.0	-0.28547 -0.22585	WERE WERE	LAWRENC LAWRENC	1	172.3 172.3	0.01215 0.01215	-0.29762 -0.238	2
WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	151.0	-0.22622	WERE	LAWRENC	1	172.3	0.01215	-0.23837	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4 BPU - CITY OF MCPHERSON GAS TURBINE 1	1	78.0 51.0		WERE	TECUMSE TECUMSE	1	40.0 40.0	0.01414 0.01414	-0.24035 -0.29961	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3 HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0 52.0	-0.22621 -0.22586	WERE WERE	TECUMSE TECUMSE		40.0 40.0	0.01414 0.01414	-0.24035 -0.24	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3 HUTCHINSON ENERGY CENTER UNIT 4	1	50.0 151.0	-0.28547 -0.22622	WERE	TECUMSE		40.0 40.0	0.01414 0.01414	-0.29961 -0.24036	2
WERE	HUTCHINSON ENERGY CENTER UNIT 1 BPU - CITY OF MCPHERSON GAS TURBINE 4	1	18.0	-0.22585	WERE	TECUMSE	1	40.0	0.01414	-0.23999	2
WERE WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	79.0 27.0	-0.28547		TECUMSE TECUMSE	1	40.0 40.0	0.01414 0.01414	-0.29317 -0.29961	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2 HUTCHINSON ENERGY CENTER UNIT 3	1	52.0 31.0	-0.28547 -0.22585	WERE WERE	TECUMSE TECUMSE		40.0 40.0	0.01414 0.01414	-0.29961 -0.23999	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 2 HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	18.0 50.0	-0.22585 -0.22604	WERE	TECUMSE TECUMSE		40.0 40.0	0.01414 0.01414	-0.23999 -0.24018	2
WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	151.0	-0.22622	WERE	TECUMSE	1	48.0	0.01414	-0.24036 -0.23999	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 1 BPU - CITY OF MCPHERSON STEAM PLANT	1	18.0 27.0	-0.28547		TECUMSE TECUMSE	1	48.0 48.0	0.01414 0.01414	-0.29961	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2 BPU - CITY OF MCPHERSON GAS TURBINE 2	1	50.0 52.0	-0.22604 -0.28547		TECUMSE TECUMSE		48.0 48.0	0.01414 0.01414	-0.24018 -0.29961	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4 BPU - CITY OF MCPHERSON GAS TURBINE 3	1	79.0 50.0	-0.27903 -0.28547	WERE	TECUMSE TECUMSE		48.0 48.0	0.01414 0.01414	-0.29317 -0.29961	2
WERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0	-0.22585	WERE	TECUMSE	1	48.0	0.01414	-0.23999	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 3 BPU - CITY OF MCPHERSON GAS TURBINE 1	1	31.0 51.0	-0.28547		TECUMSE TECUMSE	1	48.0 48.0	0.01414 0.01414	-0.23999 -0.29961	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1 HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	52.0 78.0	-0.22586 -0.22621	WERE WERE	TECUMSE TECUMSE		48.0 48.0	0.01414 0.01414	-0.24	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3 HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0 52.0	-0.22621 -0.22586		TECUMSE EVANS EN		48.0 98.4	0.01414	-0.24035 -0.22621	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 1 BPU - CITY OF MCPHERSON STEAM PLANT	1	18.0 27.0		WERE	EVANS EN	1	98.4 98.4	0.00035	-0.2262 -0.28582	2
WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	151.0	-0.22622	WERE	EVANS EN	1	98.4	0.00035	-0.22657	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 3 HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	31.0 52.0	-0.22585 -0.22621	WERE WERE	EVANS EN		98.4 98.4	0.00035 0.00035	-0.2262 -0.22656	14
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 2 HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	18.0 50.0		WERE	EVANS EN	1	98.4 98.4	0.00035 0.00035	-0.2262 -0.22639	1
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.28547	WERE	EVANS EN	1	98.4	0.00035	-0.28582	
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4 BPU - CITY OF MCPHERSON GAS TURBINE 2	1	79.0 52.0	-0.27903 -0.28547	WERE	EVANS EN	1	98.4 98.4	0.00035 0.00035	-0.27938 -0.28582	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3 HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	50.0 78.0	-0.28547 -0.22621		EVANS EN		98.4 98.4	0.00035 0.00035	-0.28582 -0.22656	14
WERE WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4 HUTCHINSON ENERGY CENTER UNIT 3	1	78.0 31.0	-0.22621 -0.22585	WERE	WACO	1	18.0 18.0	-0.00261 -0.00261	-0.2236 -0.22324	
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1 HUTCHINSON ENERGY CENTER UNIT 1	1	51.0	-0.28547	WERE	WACO	1	18.0	-0.00261	-0.28286	
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	18.0 79.0	-0.27903		WACO	1	18.0 18.0	-0.00261 -0.00261	-0.22324 -0.27642	2
WERE WERE	BPU - CITY OF MCPHERSON STEAM PLANT HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	27.0 50.0	-0.28547 -0.22604	WERE	WACO	1	18.0 18.0		-0.28286 -0.22343	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3 BPU - CITY OF MCPHERSON GAS TURBINE 2	1	50.0 52.0	-0.28547 -0.28547		WACO	1	18.0 18.0		-0.28286 -0.28286	2

WERE BPU - CITY OF

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

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

Direction:

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Wichita - Reno Co 345KV NORTH AMERICAN PHILIPS - NORTH AMERICAN PHILIPS JUNCTION (SOUTH) 115KV CKT 1 Upgrade: Limiting Facility:

HUTCHINSON ENERGY CENTER UNIT 3

CITY OF MCPHERSON GAS TURBINE

IUTCHINSON ENERGY CENTER GAS TURBINE 2

CHINSON ENERGY CENTER UNIT 1 CHINSON ENERGY CENTER GAS T CHINSON ENERGY CENTER UNIT 4

IUTCHINSON ENERGY CENTER UNIT 2 PU - CITY OF MCPHERSON STEAM PL PU - CITY OF MCPHERSON GAS TURB

BPU - CITY OF MCPHERSON GAS TURBINE

PU - CITY OF MCPHERSON GAS TURBIN

IUTCHINSON ENERGY CENTER UNIT 3

PU - CITY OF MCPHERSON GAS TURBINE 4 PU - CITY OF MCPHERSON GAS TURBINE 1

HUTCHINSON ENERGY CENTER GAS TURBINE 1

HINSON ENERGY CENTER UNIT 2
CITY OF MCPHERSON STEAM PLANT
CITY OF MCPHERSON GAS TURBINE

UTCHINSON ENERGY CENTER GAS TURBINE: UTCHINSON ENERGY CENTER GAS TRUBINE: UTCHINSON ENERGY CENTER GAS TURBINE:

PU - CITY OF MCPHERSON GAS TURBINE 2 UTCHINSON ENERGY CENTER UNIT 1 UTCHINSON ENERGY CENTER UNIT 4

PU - CITY OF MCPHERSON STEAM PLANT

UTCHINSON ENERGY CENTER GAS TURBINE 1 PU - CITY OF MCPHERSON GAS TURBINE 4 UTCHINSON ENERGY CENTER UNIT 2

HUTCHINSON ENERGY CENTER GAS TURBINE 2
HUTCHINSON ENERGY CENTER GAS TRUBINE 4
HUTCHINSON ENERGY CENTER UNIT 4

IUTCHINSON ENERGY CENTER UNIT

HUTCHINSON ENERGY CENTER UNIT 1

HUTCHINSON ENERGY CENTER UNIT 1 HUTCHINSON ENERGY CENTER UNIT 2 BPU - CITY OF MCPHERSON GAS TURE

PU - CITY OF MCPHERSON GAS TURBINE IUTCHINSON ENERGY CENTER GAS TURE

PU - CITY OF MCPHERSON GAS TURBINE 2

- CITY OF MCPHERSON GAS TURBINE 3 CHINSON ENERGY CENTER UNIT 3 - CITY OF MCPHERSON GAS TURBINE 3

CITY OF MCPHERSON GAS TURBINE 4

HUTCHINSON ENERGY CENTER GAS TURBINE 3 HUTCHINSON ENERGY CENTER GAS TURBINE 2

HUTCHINSON ENERGY CENTER GAS TURBINE 1

UTCHINSON ENERGY CENTER UNIT 4 PU - CITY OF MCPHERSON GAS TURBINI PU - CITY OF MCPHERSON STEAM PLAN

PU - CITY OF MCPHERSON STEAM PLANT UTCHINSON ENERGY CENTER UNIT 2 UTCHINSON ENERGY CENTER UNIT 3

UTCHINSON ENERGY CENTER UNIT 1

IUTCHINSON ENERGY CENTER GAS TURBINE 2 IUTCHINSON ENERGY CENTER GAS TURBINE 3

HUTCHINSON ENERGY CENTER GAS TRUBINE 4

CITY OF MCPHERSON GAS TURBINE 1

From->To

Line Outage Wichita - Reno Co 345KV

Line Outage:	Wichita - Reno Co 345KV										
Flowgate:	57372573741568725687312206WP										
Date Redispatch Needed:	12/1/06-4/1/07		_								
		Aggregate	1								
		Relief									
Reservation	Relief Amount	Amount	_								
974662	0.4	0.9	_								
974988	0.5	0.9									_
			Maximum		Sink			Maximum		İ	H
			Increment		Control		a	Decrement			
Source Control Area	Source	Source Id		GSF	Area	Sink	Sink Id	(MW)	GSF	Factor	L
WERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0	-0.42262		JEFFREY	1	470.0	0.03503	-0.45765	L
WERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0	-0.42262		JEFFREY	1	470.0	0.03503	-0.45765	L
WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	78.0	-0.42329		JEFFREY	1	470.0	0.03503	-0.45832	L
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.52205		JEFFREY	1	470.0	0.03503	-0.55708	L
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.53409		JEFFREY	1	470.0	0.03503	-0.56912	L
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0	-0.42263		JEFFREY	1	470.0	0.03503	-0.45766	L
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.53409		JEFFREY	1	470.0	0.03503	-0.56912	L
WERE	HUTCHINSON ENERGY CENTER UNIT 3	1	31.0	-0.42262		JEFFREY	1	470.0	0.03503	-0.45765	Ļ
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.42329		JEFFREY	1	470.0	0.03503	-0.45832	Ļ
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	50.0	-0.42297	WERE	JEFFREY	1	470.0	0.03503	-0.458	Ļ
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.53409		JEFFREY	1	470.0	0.03503	-0.56912	Ļ
WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	191.0	-0.4233		JEFFREY	1	470.0	0.03503	-0.45833	Ļ
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.53409		JEFFREY	1	470.0	0.03503	-0.56912	L
WERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0	-0.42262		JEFFREY	1	470.0	0.03645	-0.45907	Ļ
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.53409		JEFFREY	1	470.0	0.03645		L
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.52205		JEFFREY	1	470.0	0.03645		L
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	50.0	-0.42297		JEFFREY	1	470.0	0.03645		L
WERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0	-0.42262		JEFFREY	1	470.0	0.03645	-0.45907	Ļ
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.53409		JEFFREY	1	470.0	0.03645		Ļ
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.53409		JEFFREY	1	470.0	0.03645		Ļ
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.53409		JEFFREY	1	470.0	0.03645	-0.57054	Ļ
WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	78.0	-0.42329		JEFFREY	1	470.0	0.03645	-0.45974	Ļ
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.42329		JEFFREY	1	470.0	0.03645	-0.45974	Ļ
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0	-0.42263		JEFFREY	1	470.0	0.03645		Ļ
WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	191.0	-0.4233		JEFFREY	1	470.0	0.03645		L
WERE	HUTCHINSON ENERGY CENTER UNIT 3	1	31.0	-0.42262		JEFFREY	1	470.0	0.03645	-0.45907	L
WERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0	-0.42262		JEFFREY	1	465.0	0.03645	-0.45907	Ļ
WERE	HUTCHINSON ENERGY CENTER UNIT 3	1	31.0	-0.42262		JEFFREY	1	465.0	0.03645	-0.45907	Ļ
WERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0	-0.42262		JEFFREY	1	465.0	0.03645	-0.45907	Ł
WERE	HUTCHINSON ENERGY CENTER UNIT 4		191.0	-0.4233		JEFFREY	1	465.0	0.03645	-0.45975	Ł
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.53409		JEFFREY	1	465.0	0.03645	-0.57054	Ł
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0	-0.42263		JEFFREY	1	465.0	0.03645	-0.45908	Ļ
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.52205		JEFFREY	1	465.0	0.03645		Ļ
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.42329		JEFFREY	1	465.0	0.03645		Ļ
WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	78.0	-0.42329		JEFFREY	1	465.0	0.03645	-0.45974	Ł
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	50.0	-0.42297		JEFFREY	1	465.0	0.03645	-0.45942	Ł
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.53409		JEFFREY	1	465.0	0.03645	-0.57054	Ł
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.53409	WERE	JEFFREY	1	465.0	0.03645	-0.57054	Ļ

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Redispato Amount (MW)

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

 $\underline{\textbf{Table 6}} \text{ - Potential Redispatch Relief Pairs to Prevent Deferral of Service}$

Wichita - Reno Co 345KV
NORTH AMERICAN PHILIPS JUNCTION (SOUTH) - WEST MCPHERSON 115KV CKT 1
From->To
EAST MCPHERSON - SUMMIT 230KV CKT 1
57374574381568725687312106WP
12/1/06-4/1/07

Upgrade: Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed:

Reservation 974662	Relief Amount 0.2	Relief Amount 0.4	1								
974662 974988	0.2 0.2	0.4	<u> </u>								
			Maximum Increment		Sink Control			Maximum Decrement			Redispa Amour
Source Control Area	Source	Source Id	(MW)	GSF	Area	Sink	Sink Id	(MW)	GSF	Factor	(MW)
VERE VERE	BPU - CITY OF MCPHERSON STEAM PLANT HUTCHINSON ENERGY CENTER UNIT 3	1 1	27.0 31.0	-0.24837 -0.19653	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01629 0.01629	-0.26466 -0.21282	
VERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0	-0.19653	WERE	JEFFREY	1	470.0	0.01629	-0.21282	
VERE VERE	HUTCHINSON ENERGY CENTER UNIT 4 BPU - CITY OF MCPHERSON GAS TURBINE 4	1	191.0 79.0		WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01629 0.01629	-0.21314 -0.25906	
VERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4		78.0	-0.19685	WERE	JEFFREY	1	470.0	0.01629	-0.21314	
VERE VERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3 HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0 52.0		WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01629 0.01629	-0.21314 -0.21283	
VERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.24837	WERE	JEFFREY	1	470.0	0.01629	-0.26466	
VERE VERE	HUTCHINSON ENERGY CENTER UNIT 1 BPU - CITY OF MCPHERSON GAS TURBINE 3	1	18.0 50.0	-0.19653 -0.24837	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01629 0.01629	-0.21282 -0.26466	
VERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	50.0		WERE	JEFFREY	1	470.0	0.01629	-0.21299	
VERE VERE	BPU - CITY OF MCPHERSON GAS TURBINE 2 BPU - CITY OF MCPHERSON GAS TURBINE 3	1 1	52.0 50.0		WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01629 0.01695	-0.26466 -0.26532	
VERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0	-0.19653	WERE	JEFFREY	1	470.0	0.01695	-0.21348	
VERE VERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4 HUTCHINSON ENERGY CENTER UNIT 3	1 1	78.0 31.0		WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01695 0.01695	-0.2138 -0.21348	
VERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0		WERE	JEFFREY	1	470.0	0.01695	-0.26532	
VERE VERE	HUTCHINSON ENERGY CENTER UNIT 1 BPU - CITY OF MCPHERSON GAS TURBINE 2	1	18.0 52.0		WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01695 0.01695	-0.21348 -0.26532	
VERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.24277	WERE	JEFFREY	1	470.0	0.01695	-0.25972	
VERE VERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2 HUTCHINSON ENERGY CENTER UNIT 4	1 1	50.0 191.0		WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01695 0.01695	-0.21365 -0.2138	
VERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0	-0.19654	WERE	JEFFREY	1	470.0	0.01695	-0.21349	
VERE VERE	BPU - CITY OF MCPHERSON GAS TURBINE 1 HUTCHINSON ENERGY CENTER GAS TURBINE 3	1 1	51.0 52.0		WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01695 0.01695	-0.26532 -0.2138	
VERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.24837	WERE	JEFFREY	1	470.0	0.01695	-0.26532	
VERE VERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4 BPU - CITY OF MCPHERSON STEAM PLANT	1 1	78.0 27.0		WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01695 0.01695	-0.2138 -0.26532	
VERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0	-0.19653	WERE	JEFFREY	1	470.0	0.01695	-0.21348	
VERE VERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3 HUTCHINSON ENERGY CENTER GAS TURBINE 2		52.0 50.0		WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01695 0.01695	-0.2138 -0.21365	
VERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0	-0.19654	WERE	JEFFREY	1	470.0	0.01695	-0.21349	
VERE VERE	BPU - CITY OF MCPHERSON GAS TURBINE 1 HUTCHINSON ENERGY CENTER UNIT 3	1	51.0 31.0		WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01695 0.01695	-0.26532 -0.21348	
VERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0		WERE	JEFFREY	1	470.0	0.01695	-0.25972	
VERE VERE	BPU - CITY OF MCPHERSON GAS TURBINE 2 HUTCHINSON ENERGY CENTER UNIT 4	1	52.0 191.0		WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01695 0.01695	-0.26532 -0.2138	
VERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0		WERE	JEFFREY	1	470.0	0.01695	-0.21348	
VERE VERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4 BPU - CITY OF MCPHERSON GAS TURBINE 3	1 1	78.0 50.0		WERE WERE	LAWRENC	1	174.4 174.4	0.01056 0.01056	-0.20741 -0.25893	
VERE	HUTCHINSON ENERGY CENTER UNIT 3	1	31.0		WERE	LAWRENC	1	174.4	0.01056	-0.20709	
VERE VERE	HUTCHINSON ENERGY CENTER UNIT 4 BPU - CITY OF MCPHERSON GAS TURBINE 2	1	191.0 52.0		WERE WERE	LAWRENC	1	174.4 174.4	0.01056 0.01056	-0.20741 -0.25893	
VERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0		WERE	LAWRENC	1	174.4	0.01056	-0.25333	
VERE VERE	HUTCHINSON ENERGY CENTER UNIT 2 HUTCHINSON ENERGY CENTER GAS TURBINE 2	1 1	18.0 50.0		WERE WERE	LAWRENC	1	174.4 174.4	0.01056 0.01056	-0.20709 -0.20726	1
VERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0		WERE	LAWRENC	1	174.4	0.01056	-0.2071	
VERE VERE	BPU - CITY OF MCPHERSON STEAM PLANT BPU - CITY OF MCPHERSON GAS TURBINE 1	1	27.0 51.0		WERE WERE	LAWRENC	1	174.4 174.4	0.01056 0.01056	-0.25893 -0.25893	1
VERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3 HUTCHINSON ENERGY CENTER UNIT 1	1	52.0		WERE	LAWRENC	1	174.4	0.01056	-0.20741	
VERE VERE	HUTCHINSON ENERGY CENTER UNIT 1 HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	18.0 50.0		WERE WERE	TECUMSE TECUMSE	1	174.4 35.8	0.01056 0.01216	-0.20709 -0.20886	
VERE VERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0 52.0		WERE WERE	TECUMSE	1	35.8 35.8	0.01216 0.01216	-0.26053 -0.2087	
VERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1 BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0		WERE	TECUMSE	1	35.8	0.01216		
VERE VERE	BPU - CITY OF MCPHERSON GAS TURBINE 3 HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	50.0 52.0		WERE	TECUMSE TECUMSE	1	35.8 35.8	0.01216 0.01216		
VERE	HUTCHINSON ENERGY CENTER GAS TORBINE S	1	31.0		WERE	TECUMSE	1	35.8	0.01216		
VERE VERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4 HUTCHINSON ENERGY CENTER UNIT 1	1	78.0 18.0		WERE	TECUMSE	1	35.8 35.8	0.01216 0.01216		
VERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0		WERE	TECUMSE	1	35.8	0.01216		
VERE VERE	HUTCHINSON ENERGY CENTER UNIT 2 HUTCHINSON ENERGY CENTER UNIT 4	1	18.0 191.0		WERE	TECUMSE TECUMSE	1	35.8 35.8	0.01216	-0.20869 -0.20901	
VERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.19665		TECUMSE	1	35.8	0.01216		
VERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0			EVANS EN	1	55.0			
VERE VERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3 HUTCHINSON ENERGY CENTER UNIT 4	1	52.0 191.0	-0.19685	WERE	EVANS EN	1	55.0 55.0	0.00034 0.00034	-0.19719	
VERE VERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4 HUTCHINSON ENERGY CENTER UNIT 2	1 1	78.0 18.0	-0.19685 -0.19653		EVANS EN	1	55.0 55.0	0.00034	-0.19719 -0.19687	1
VERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0	-0.19653	WERE	EVANS EN	1	55.0	0.00034	-0.19687	
VERE VERE	BPU - CITY OF MCPHERSON GAS TURBINE 3 BPU - CITY OF MCPHERSON STEAM PLANT	1	50.0 27.0	-0.24837 -0.24837		EVANS EN	1	55.0 55.0	0.00034	-0.24871 -0.24871	
/ERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1		52.0	-0.19654	WERE	EVANS EN	1	55.0	0.00034	-0.19688	
/ERE /ERE	BPU - CITY OF MCPHERSON GAS TURBINE 4 HUTCHINSON ENERGY CENTER UNIT 3	1	79.0 31.0	-0.24277 -0.19653		EVANS EN	1	55.0 55.0	0.00034		
/ERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.24837	WERE	EVANS EN	1	55.0	0.00034	-0.24871	
/ERE /ERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2 HUTCHINSON ENERGY CENTER UNIT 3	1 1	50.0 31.0			EVANS EN ELKRVR2	1	55.0 75.0	0.00034 0.0013		
/ERE	HUTCHINSON ENERGY CENTER GAS TRUBINE		78.0	-0.19685	WERE	ELKRVR2	1	75.0 75.0	0.0013	-0.19815	
/ERE /ERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2 HUTCHINSON ENERGY CENTER GAS TURBINE 1		50.0 52.0			ELKRVR2	1	75.0 75.0	0.0013 0.0013	-0.198 -0.19784	
/ERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3		52.0	-0.19685	WERE	ELKRVR2	1	75.0 75.0	0.0013	-0.19815	
/ERE /ERE	HUTCHINSON ENERGY CENTER UNIT 4 BPU - CITY OF MCPHERSON GAS TURBINE 2	1	191.0 52.0			ELKRVR2	1	75.0 75.0	0.0013 0.0013		
/ERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0	-0.19653	WERE	ELKRVR2	1	75.0 75.0	0.0013	-0.19783	
/ERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0			ELKRVR2	1 1	75.0 75.0	0.0013		
VERE VERE	HUTCHINSON ENERGY CENTER UNIT 2 BPU - CITY OF MCPHERSON STEAM PLANT	1	18.0 27.0			ELKRVR2	1	75.0 75.0	0.0013 0.0013	-0.19783 -0.24967	<u> </u>
/ERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.24837	WERE	ELKRVR2	1	75.0	0.0013	-0.24967	
VERE VERE	BPU - CITY OF MCPHERSON GAS TURBINE 4 BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0 79.0			ELKRVR2: WACO	1	75.0 18.0	0.0013 -0.00224	-0.24407 -0.24053	
/ERE	HUTCHINSON ENERGY CENTER UNIT 4	1	191.0	-0.19685	WERE	WACO	1	18.0	-0.00224	-0.19461	
/ERE /ERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4 BPU - CITY OF MCPHERSON STEAM PLANT	1 1	78.0 27.0			WACO	1	18.0 18.0			
/ERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.24837	WERE	WACO	1	18.0	-0.00224	-0.24613	
/ERE /ERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3 HUTCHINSON ENERGY CENTER UNIT 3	1 1	52.0 31.0	-0.19685 -0.19653		WACO	1	18.0 18.0	-0.00224 -0.00224	-0.19461 -0.19429	
/ERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0			WACO	1	18.0	-0.00224	-0.1943	

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

 $\underline{\textbf{Table 6}} \text{ - Potential Redispatch Relief Pairs to Prevent Deferral of Service}$

Wichita - Reno Co 345KV NORTH AMERICAN PHILIPS JUNCTION (SOUTH) - WEST MCPHERSON 115KV CKT 2 From-To EAST MCPHERSON - SUMMIT 230KV CKT 1 57374574382588725687312206WP

Upgrade: Limiting Facility: Direction: Line Outage: Flowgate:

Date Redispatch Needed:	12/1/06-4/1/07										
		Aggregate Relief									
Reservation 974662	Relief Amount	Amount									
974988	0.2 0.3	0.5 0.5									
			Maximum Increment		Sink Control			Maximum Decrement			Redispatch Amount
Source Control Area	Source	Source Id	(MW)	GSF	Area	Sink	Sink Id	(MW)	GSF	Factor	(MW)
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 2 HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	18.0 50.0	-0.22609 -0.22628		JEFFREY JEFFREY	1	470.0 470.0	0.01874 0.01874	-0.24483 -0.24502	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.28572	WERE	JEFFREY	1	470.0	0.01874	-0.30446	
WERE WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4 BPU - CITY OF MCPHERSON STEAM PLANT	1	78.0 27.0	-0.22645 -0.28572		JEFFREY JEFFREY	1	470.0 470.0	0.01874 0.01874	-0.24519 -0.30446	2
WERE	HUTCHINSON ENERGY CENTER UNIT 3	1	31.0	-0.22609	WERE	JEFFREY	1	470.0	0.01874	-0.24483	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1 HUTCHINSON ENERGY CENTER UNIT 1	1	51.0 18.0	-0.28572 -0.22609		JEFFREY JEFFREY	1	470.0 470.0	0.01874 0.01874	-0.30446 -0.24483	- :
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.27928	WERE	JEFFREY	1	470.0	0.01874	-0.29802	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1 HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0 52.0	-0.22609 -0.22645		JEFFREY JEFFREY	1	470.0 470.0	0.01874 0.01874	-0.24483 -0.24519	2
WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	191.0	-0.22645	WERE	JEFFREY	1	470.0	0.01874	-0.24519	:
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2 HUTCHINSON ENERGY CENTER UNIT 4	1	52.0 191.0	-0.28572 -0.22645		JEFFREY JEFFREY	1	470.0 470.0	0.01874 0.0195	-0.30446 -0.24595	- :
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0	-0.22609	WERE	JEFFREY	1	470.0	0.0195	-0.24559	
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3 HUTCHINSON ENERGY CENTER UNIT 3	1	52.0 31.0	-0.22645 -0.22609		JEFFREY JEFFREY	1	470.0 470.0	0.0195 0.0195	-0.24595 -0.24559	
WERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0	-0.22609	WERE	JEFFREY	1	470.0	0.0195	-0.24559	:
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2 HUTCHINSON ENERGY CENTER UNIT 2	1	50.0 18.0	-0.22628 -0.22609		JEFFREY JEFFREY	1	470.0 470.0	0.0195 0.0195	-0.24578 -0.24559	- :
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.27928	WERE	JEFFREY	1	470.0	0.0195	-0.29878	:
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1 HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	51.0 78.0	-0.28572 -0.22645		JEFFREY JEFFREY	1	470.0 470.0	0.0195 0.0195	-0.30522 -0.24595	- :
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.28572	WERE	JEFFREY	1	470.0	0.0195	-0.30522	:
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3 BPU - CITY OF MCPHERSON GAS TURBINE 2	1	50.0 52.0	-0.28572 -0.28572		JEFFREY JEFFREY	1	470.0 470.0	0.0195 0.0195	-0.30522 -0.30522	:
WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	191.0	-0.22645	WERE	JEFFREY	1	465.0	0.0195	-0.24595	:
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4 HUTCHINSON ENERGY CENTER UNIT 3	1	79.0 31.0	-0.27928 -0.22609		JEFFREY JEFFREY	1	465.0 465.0	0.0195 0.0195	-0.29878 -0.24559	:
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.28572	WERE	JEFFREY	1	465.0	0.0195	-0.30522	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1 HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	52.0 50.0	-0.22609 -0.22628		JEFFREY JEFFREY	1	465.0 465.0	0.0195 0.0195	-0.24559 -0.24578	:
WERE WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4 HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	78.0 52.0	-0.22645 -0.22645	WERE	JEFFREY JEFFREY	1	465.0 465.0	0.0195 0.0195	-0.24595 -0.24595	2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	18.0	-0.22609		JEFFREY	1	465.0	0.0195	-0.24595	
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2 HUTCHINSON ENERGY CENTER UNIT 2	1	52.0	-0.28572 -0.22609		JEFFREY	1	465.0	0.0195	-0.30522 -0.24559	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	18.0 51.0			JEFFREY JEFFREY	1	465.0 465.0	0.0195 0.0195	-0.24559	
WERE WERE	BPU - CITY OF MCPHERSON STEAM PLANT HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	27.0 50.0	-0.28572 -0.22628		JEFFREY LAWRENC	1	465.0 121.9	0.0195 0.01215	-0.30522 -0.23843	:
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.27928	WERE	LAWRENC	1	121.9	0.01215	-0.29143	4
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2 HUTCHINSON ENERGY CENTER UNIT 4	1	52.0 191.0	-0.28572 -0.22645		LAWRENC	1	121.9 121.9	0.01215 0.01215	-0.29787 -0.2386	2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0	-0.22609	WERE	LAWRENC	1	121.9	0.01215	-0.23824	2
WERE WERE	BPU - CITY OF MCPHERSON STEAM PLANT HUTCHINSON ENERGY CENTER UNIT 3	1	27.0 31.0	-0.28572 -0.22609		LAWRENC	1	121.9 121.9	0.01215 0.01215	-0.29787 -0.23824	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.28572	WERE	LAWRENC	1	121.9	0.01215	-0.29787	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3 HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	52.0 78.0	-0.22645 -0.22645		LAWRENC	1	121.9 121.9	0.01215 0.01215	-0.2386 -0.2386	2
WERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0	-0.22609	WERE	LAWRENC	1	121.9	0.01215	-0.23824	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 1 BPU - CITY OF MCPHERSON GAS TURBINE 1	1	18.0 51.0	-0.22609 -0.28572		LAWRENC	1	121.9 121.9	0.01215 0.01215	-0.23824 -0.29787	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.28572	WERE	WACO	1	18.0	-0.00257	-0.28315	2
WERE WERE	BPU - CITY OF MCPHERSON STEAM PLANT BPU - CITY OF MCPHERSON GAS TURBINE 4	1	27.0 79.0	-0.28572 -0.27928		WACO	1	18.0 18.0	-0.00257 -0.00257	-0.28315 -0.27671	2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0	-0.22609		WACO	1	18.0	-0.00257	-0.22352	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4 HUTCHINSON ENERGY CENTER UNIT 3	1	78.0 31.0	-0.22645 -0.22609		WACO	1	18.0 18.0	-0.00257 -0.00257	-0.22388 -0.22352	2
WERE	HUTCHINSON ENERGY CENTER UNIT 1 HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	18.0 50.0	-0.22609		WACO	1	18.0 18.0	-0.00257	-0.22352	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	191.0	-0.22628 -0.22645		WACO	1	18.0	-0.00257 -0.00257	-0.22371 -0.22388	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3 BPU - CITY OF MCPHERSON GAS TURBINE 1	1	50.0 51.0	-0.28572 -0.28572		WACO	1	18.0 18.0	-0.00257 -0.00257	-0.28315 -0.28315	2
WERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0	-0.22609		WACO	1	18.0	-0.00257	-0.22352	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3 HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0 52.0	-0.22645 -0.22609		WACO CITY OF V	1	18.0 16.3	-0.00257 -0.00153	-0.22388 -0.22456	2
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.28572	WERE	CITY OF V	1	16.3	-0.00153	-0.28419	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 4 HUTCHINSON ENERGY CENTER UNIT 1	1	191.0 18.0	-0.22645 -0.22609		CITY OF V	1	16.3 16.3	-0.00153 -0.00153	-0.22492 -0.22456	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.28572	WERE	CITY OF V	1	16.3	-0.00153	-0.28419	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4 HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	78.0 50.0	-0.22645 -0.22628		CITY OF V	1	16.3 16.3	-0.00153 -0.00153	-0.22492 -0.22475	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.28572	WERE	CITY OF V	1	16.3	-0.00153	-0.28419	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4 HUTCHINSON ENERGY CENTER UNIT 3	1	79.0 31.0	-0.27928 -0.22609		CITY OF V	1	16.3 16.3	-0.00153 -0.00153	-0.27775 -0.22456	2
WERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0	-0.22609	WERE	CITY OF V	1	16.3	-0.00153	-0.22456	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1 HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	51.0 52.0	-0.28572 -0.22645		CITY OF V	1	16.3 16.3	-0.00153 -0.00153	-0.28419 -0.22492	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.28572	WERE	CITY OF V	6	11.0	-0.00153	-0.28419	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1 BPU - CITY OF MCPHERSON GAS TURBINE 2	1	51.0 52.0	-0.28572 -0.28572		CITY OF V	6	11.0 11.0	-0.00153 -0.00153	-0.28419 -0.28419	2
WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	78.0	-0.22645	WERE	CITY OF V	6	11.0	-0.00153	-0.22492	2
WERE WERE	BPU - CITY OF MCPHERSON STEAM PLANT BPU - CITY OF MCPHERSON GAS TURBINE 4	1	27.0 79.0	-0.28572 -0.27928		CITY OF V	6	11.0 11.0		-0.28419 -0.27775	2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	50.0	-0.22628	WERE	CITY OF V	6	11.0	-0.00153	-0.22475	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 1 HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	18.0 52.0	-0.22609 -0.22645		CITY OF V	6	11.0 11.0		-0.22456 -0.22492	2
WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	191.0	-0.22645	WERE	CITY OF V	6	11.0	-0.00153	-0.22492	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1 HUTCHINSON ENERGY CENTER UNIT 2	1	52.0 18.0	-0.22609 -0.22609		CITY OF V	6	11.0 11.0	-0.00153 -0.00153	-0.22456 -0.22456	2
WERE	HUTCHINSON ENERGY CENTER UNIT 3	1	31.0	-0.22609	WERE	CITY OF V	6	11.0	-0.00153	-0.22456	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1 BPU - CITY OF MCPHERSON STEAM PLANT	1	52.0 27.0	-0.22609 -0.28572		CITY OF V	1	26.3 26.3	-0.00092 -0.00092	-0.22517 -0.2848	2
WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	191.0	-0.22645	WERE	CITY OF V	1	26.3	-0.00092	-0.22553	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3 HUTCHINSON ENERGY CENTER UNIT 2	1	52.0 18.0	-0.22645 -0.22609		CITY OF V	1	26.3 26.3	-0.00092 -0.00092	-0.22553 -0.22517	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.28572	WERE	CITY OF V	1	26.3	-0.00092	-0.2848	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2 HUTCHINSON ENERGY CENTER UNIT 3	1	52.0 31.0	-0.28572 -0.22609		CITY OF V	1	26.3 26.3	-0.00092 -0.00092	-0.2848 -0.22517	2
WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	78.0	-0.22645		CITY OF V	1	26.3	-0.00092	-0.22553	2

WERE HUTCHINSON I
WERE HUTCHINSON I
Maximum Decrement and Maximum Increment
Factor = Source GSF - Sink GSF
Redispatch Amount = Relief Amount / Factor HUTCHINSON ENERGY CENTER GAS TRUBINE 4 1 78.0 -0.22645 WERE laximum Increment were determine from the Souce and Sink Operating Points in the study models w

<u>Table 6</u> - Potential Redispatch Relief Pairs to Prevent Deferral of Service

Upgrade: Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Wichita - Reno Co 345KV
NORTH AMERICAN PHILIPS - NORTH AMERICAN PHILIPS JUNCTION (SOUTH) 115KV CKT 1
From->To
EAST MCPHERSON - SUMMIT 230KV CKT 1
57372573741568725687312207WP
12/1/07-4/1/08, 12/1/08-4/1/09, & 12/1/09-4/1/10

Aggregate Relief

Beconstion	Rollinf Amount	Relief Amount									
Reservation 974662	Relief Amount 0.4	0.9									
974988	0.5	0.9									
			Maximum Increment		Sink Control			Maximum Decrement			Redispatch Amount
Source Control Area	Source	Source Id	(MW)	GSF	Area	Sink	Sink Id	(MW)	GSF	Factor	(MW)
WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	78.0	-0.42305		JEFFREY	1	470.0	0.03512	-0.45817	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4 BPU - CITY OF MCPHERSON GAS TURBINE 3	1	79.0 50.0	-0.52182 -0.53387		JEFFREY	<u>1</u>	470.0 470.0	0.03512 0.03512	-0.55694 -0.56899	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.53387	WERE	JEFFREY	1	470.0	0.03512	-0.56899	2
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.53387	WERE	JEFFREY	1	470.0	0.03512	-0.56899	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3 HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	52.0 50.0	-0.42305 -0.42261		JEFFREY JEFFREY	<u>1</u>	470.0 470.0	0.03512 0.03512	-0.45817 -0.45773	2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0	-0.42215		JEFFREY	1	470.0	0.03512	-0.45727	2
WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	191.0	-0.42305	WERE	JEFFREY	1	470.0	0.03512	-0.45817	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 3 HUTCHINSON ENERGY CENTER UNIT 2	1	31.0 18.0	-0.42214 -0.42214		JEFFREY	<u>1</u>	470.0 470.0	0.03512 0.03512	-0.45726 -0.45726	2
WERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0	-0.42214		JEFFREY	1	470.0	0.03512	-0.45726	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.53387	WERE	JEFFREY	1	470.0	0.03512	-0.56899	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1 BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0 52.0	-0.42215 -0.53387	WERE WERE	JEFFREY	<u>1</u>	470.0 470.0	0.03656 0.03656	-0.45871 -0.57043	2
WERE	HUTCHINSON ENERGY CENTER UNIT 3	1	31.0	-0.42214	WERE	JEFFREY	1	470.0	0.03656	-0.4587	2
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.53387		JEFFREY	1	470.0 470.0	0.03656	-0.57043	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4 HUTCHINSON ENERGY CENTER UNIT 2	1	79.0 18.0	-0.52182 -0.42214		JEFFREY JEFFREY	<u>1</u>	470.0	0.03656 0.03656	-0.55838 -0.4587	2
WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	191.0	-0.42305	WERE	JEFFREY	1	470.0	0.03656	-0.45961	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3 HUTCHINSON ENERGY CENTER UNIT 1	1	50.0 18.0	-0.53387 -0.42214	WERE	JEFFREY JEFFREY	<u>1</u>	470.0 470.0	0.03656 0.03656	-0.57043 -0.4587	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.53387	WERE	JEFFREY	1	470.0	0.03656	-0.57043	2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.42305	WERE	JEFFREY	1	470.0	0.03656	-0.45961	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4 HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	78.0 50.0	-0.42305 -0.42261		JEFFREY	<u>1</u>	470.0 470.0	0.03656 0.03656	-0.45961 -0.45917	2
WERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0	-0.42214	WERE	JEFFREY	1	470.0	0.03656	-0.4587	2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0	-0.42215		JEFFREY JEFFREY	1	470.0	0.03656	-0.45871	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 4 HUTCHINSON ENERGY CENTER UNIT 3	1	191.0 31.0	-0.42305 -0.42214		JEFFREY	1	470.0 470.0	0.03656 0.03656	-0.45961 -0.4587	2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	50.0	-0.42261	WERE	JEFFREY	1	470.0	0.03656	-0.45917	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4 BPU - CITY OF MCPHERSON STEAM PLANT	1	78.0 27.0	-0.42305 -0.53387	WERE	JEFFREY	<u>1</u>	470.0 470.0	0.03656 0.03656	-0.45961 -0.57043	2
WERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0	-0.42214	WERE	JEFFREY	1	470.0	0.03656	-0.57043	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.53387	WERE	JEFFREY	1	470.0	0.03656	-0.57043	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3 BPU - CITY OF MCPHERSON GAS TURBINE 2	1	50.0 52.0	-0.53387 -0.53387	WERE WERE	JEFFREY	<u>1</u>	470.0 470.0	0.03656 0.03656	-0.57043 -0.57043	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.52182	WERE	JEFFREY	1	470.0	0.03656	-0.55838	2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3 HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0 52.0	-0.42305 -0.42305		JEFFREY LAWRENC	<u>1</u>	470.0 120.6	0.03656 0.02279	-0.45961 -0.44584	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	191.0	-0.42305		LAWRENC	1	120.6	0.02279	-0.44584	2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	50.0	-0.42261	WERE	LAWRENC	1	120.6	0.02279	-0.4454	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4 HUTCHINSON ENERGY CENTER UNIT 3	1	79.0 31.0	-0.52182 -0.42214		LAWRENC LAWRENC	<u>1</u>	120.6 120.6	0.02279 0.02279	-0.54461 -0.44493	2
WERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0	-0.42214		LAWRENC	1	120.6	0.02279	-0.44493	2
WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	78.0	-0.42305		LAWRENC	1	120.6	0.02279	-0.44584	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 2 BPU - CITY OF MCPHERSON GAS TURBINE 3	1	18.0 50.0	-0.42214 -0.53387	WERE	LAWRENC LAWRENC	<u>1</u>	120.6 120.6	0.02279 0.02279	-0.44493 -0.55666	2
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.53387	WERE	LAWRENC	1	120.6	0.02279	-0.55666	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1 BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0 52.0	-0.42215 -0.53387	WERE WERE	LAWRENC LAWRENC	<u>1</u>	120.6 120.6	0.02279 0.02279	-0.44494 -0.55666	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.53387	WERE	LAWRENC	1	120.6	0.02279	-0.55666	2
WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	78.0	-0.42305		EVANS EN	1	37.7	0.0011	-0.42415	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1 BPU - CITY OF MCPHERSON STEAM PLANT	1	52.0 27.0	-0.42215 -0.53387	WERE WERE	EVANS EN	<u>1</u>	37.7 37.7	0.0011	-0.42325 -0.53497	2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.42305	WERE	EVANS EN	1	37.7	0.0011	-0.42415	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 1 BPU - CITY OF MCPHERSON GAS TURBINE 3	1	18.0 50.0	-0.42214 -0.53387	WERE WERE	EVANS EN	<u>1</u>	37.7 37.7	0.0011	-0.42324 -0.53497	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.52182	WERE	EVANS EN	1	37.7	0.0011	-0.52292	2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	50.0	-0.42261		EVANS EN	1	37.7	0.0011	-0.42371	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 3 HUTCHINSON ENERGY CENTER UNIT 4	1	31.0 191.0	-0.42214 -0.42305		EVANS EN	<u>1</u>	37.7 37.7	0.0011	-0.42324 -0.42415	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.53387	WERE	EVANS EN	1	37.7	0.0011	-0.53497	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2 HUTCHINSON ENERGY CENTER UNIT 2	1	52.0 18.0	-0.53387 -0.42214	WERE	EVANS EN	<u>1</u>	37.7 37.7	0.0011	-0.53497 -0.42324	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.52182		WACO	1	18.0	-0.00447	-0.42324	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.53387		WACO	1	18.0	-0.00447	-0.5294	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3 HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	52.0 78.0	-0.42305 -0.42305	WERE	WACO	<u>1</u>	18.0 18.0	-0.00447 -0.00447	-0.41858 -0.41858	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.53387	WERE	WACO	1	18.0	-0.00447	-0.5294	2
WERE	HUTCHINSON ENERGY CENTER UNIT 2 HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	18.0 52.0			WACO	1	18.0	-0.00447	-0.41767 -0.41768	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1 HUTCHINSON ENERGY CENTER UNIT 1	1	52.0 18.0			WACO	1	18.0 18.0	-0.00447 -0.00447	-0.41768	2
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.53387	WERE	WACO	1	18.0	-0.00447	-0.5294	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 3 HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	31.0 50.0			WACO	<u>1</u>	18.0 18.0	-0.00447 -0.00447	-0.41767 -0.41814	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.53387	WERE	WACO	1	18.0	-0.00447	-0.5294	2
WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	191.0	-0.42305	WERE	WACO	1	18.0	-0.00447	-0.41858	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 1 HUTCHINSON ENERGY CENTER UNIT 4	1	18.0 191.0			CITY OF V	1 1	16.3 16.3	-0.00243 -0.00243	-0.41971 -0.42062	2
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.53387	WERE	CITY OF V	1	16.3	-0.00243	-0.53144	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4 HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	79.0 52.0			CITY OF V	1	16.3	-0.00243	-0.51939 -0.41972	2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1 HUTCHINSON ENERGY CENTER UNIT 3	1	52.0 31.0			CITY OF V	1	16.3 16.3	-0.00243 -0.00243	-0.41972	2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.42305	WERE	CITY OF V	1	16.3	-0.00243	-0.42062	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2 HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	50.0 78.0			CITY OF V	<u>1</u>	16.3 16.3	-0.00243 -0.00243	-0.42018 -0.42062	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.53387	WERE	CITY OF V	1	16.3	-0.00243	-0.53144	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0			CITY OF V	1	16.3	-0.00243	-0.53144	2
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1 HUTCHINSON ENERGY CENTER UNIT 2	1	51.0 18.0			CITY OF V	1 1	16.3 16.3	-0.00243 -0.00243	-0.53144 -0.41971	2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	50.0	-0.42261	WERE	CITY OF V	6	11.0	-0.00243	-0.42018	2
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3 BPU - CITY OF MCPHERSON GAS TURBINE 1	1	52.0 51.0			CITY OF V	6	11.0	-0.00243	-0.42062 -0.53144	2
WERE	HUTCHINSON ENERGY CENTER UNIT 3	1	51.0 31.0			CITY OF V	6	11.0 11.0	-0.00243 -0.00243	-0.53144 -0.41971	2
WERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0	-0.42214	WERE	CITY OF V	6	11.0	-0.00243	-0.41971	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 4 BPU - CITY OF MCPHERSON GAS TURBINE 3	1	191.0 50.0			CITY OF V	6	11.0 11.0	-0.00243 -0.00243	-0.42062 -0.53144	2
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0	-0.42215	WERE	CITY OF V	6	11.0	-0.00243	-0.41972	2
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.53387	WERE	CITY OF V	6	11.0	-0.00243	-0.53144	2
iviaximum Decrement and Ma	aximum Increment were determine from the Souce and	SINK Upera	una Points	iii the study n	loaels whe	e iimiting fa	cility was id	æntiriea.			

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 | Factor

 $\underline{\textbf{Table 6}} \text{ - Potential Redispatch Relief Pairs to Prevent Deferral of Service}$

Upgrade: Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Wichita - Reno Co 345KV
NORTH AMERICAN PHILIPS JUNCTION (SOUTH) - WEST MCPHERSON 115KV CKT 2
From->To
EAST MCPHERSON - SUMMIT 230KV CKT 1
57374574381568725687312207WP
12/1/07-4/1/08, 12/1/08-4/1/09, 8 12/1/09-4/1/10

	Aggregate Relief	
Reservation Relief Amount	Amount	
974662 0.2	0.4	
974988 0.2	0.4	

Reservation	Relief Amount	Amount									
974662	0.2	0.4							t		Redispate Amount
974988	0.2	0.4	Maximum		Sink			Maximum			
			Increment		Control			Decrement			
Source Control Area	Source	Source Id	(MW)	GSF	Area	Sink	Sink Id	(MW)	GSF	Factor	(MV
ERE ERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2		50.0		WERE	JEFFREY	1	470.0	0.01633	-0.21286	
ERE ERE	BPU - CITY OF MCPHERSON GAS TURBINE 4 HUTCHINSON ENERGY CENTER GAS TURBINE 3	1 1	79.0 52.0	-0.24266 -0.19673	WERE	JEFFREY JEFFREY	<u>1</u> 1	470.0 470.0	0.01633 0.01633	-0.25899 -0.21306	_
RE	HUTCHINSON ENERGY CENTER GAS TURBINE 1		52.0	-0.19631		JEFFREY	1	470.0	0.01633	-0.21264	
ERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0		WERE	JEFFREY	1	470.0	0.01633	-0.26459	
RE	HUTCHINSON ENERGY CENTER UNIT 4	1	191.0	-0.19673		JEFFREY	11	470.0	0.01633	-0.21306	
ERE	HUTCHINSON ENERGY CENTER UNIT 3	1	31.0	-0.19631		JEFFREY	1	470.0	0.01633	-0.21264	
ERE ERE	BPU - CITY OF MCPHERSON STEAM PLANT HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1 1	27.0 78.0	-0.24826 -0.19673	WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01633 0.01633	-0.26459 -0.21306	_
ERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0		WERE	JEFFREY	1	470.0	0.01633	-0.26459	_
ERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0	-0.19631		JEFFREY	1	470.0	0.01633	-0.21264	
ERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0		WERE	JEFFREY	1	470.0	0.01633	-0.26459	
ERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0	-0.19631		JEFFREY	1	470.0	0.01633	-0.21264	
ERE ERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4 HUTCHINSON ENERGY CENTER UNIT 4	1 1	78.0 191.0	-0.19673 -0.19673		JEFFREY	1	470.0 470.0	0.017 0.017	-0.21373 -0.21373	<u> </u>
ERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0	-0.19631		JEFFREY	1	470.0	0.017	-0.21373	
ERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0		WERE	JEFFREY	1	470.0	0.017	-0.26526	
ERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0	-0.19631		JEFFREY	1	470.0	0.017	-0.21331	
ERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0		WERE	JEFFREY	1	470.0	0.017	-0.26526	
ERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0		WERE	JEFFREY	1	470.0	0.017	-0.25966	<u> </u>
ERE ERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2 BPU - CITY OF MCPHERSON GAS TURBINE 3	1 1	50.0 50.0		WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.017 0.017	-0.21353 -0.26526	<u> </u>
ERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0		WERE	JEFFREY	1	470.0	0.017	-0.26526	
ERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0	-0.19631		JEFFREY	1	470.0	0.017	-0.21331	
ERE	HUTCHINSON ENERGY CENTER UNIT 3	1	31.0	-0.19631		JEFFREY	1	470.0	0.017	-0.21331	
ERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3		52.0	-0.19673		JEFFREY	1	470.0	0.017	-0.21373	
ERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3		52.0	-0.19673		JEFFREY	1 1	470.0	0.017	-0.21373	\vdash
ERE ERE	HUTCHINSON ENERGY CENTER UNIT 2 HUTCHINSON ENERGY CENTER UNIT 1	1 1	18.0 18.0	-0.19631 -0.19631		JEFFREY	1	470.0 470.0	0.017 0.017	-0.21331 -0.21331	\vdash
ERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0		WERE	JEFFREY	1	470.0	0.017	-0.21331	
ERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0		WERE	JEFFREY	1	470.0	0.017	-0.26526	
ERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.24266	WERE	JEFFREY	1	470.0	0.017	-0.25966	
ERE	HUTCHINSON ENERGY CENTER UNIT 4	1	191.0	-0.19673		JEFFREY	1	470.0	0.017	-0.21373	
ERE	HUTCHINSON ENERGY CENTER UNIT 3	1	31.0	-0.19631		JEFFREY	1	470.0	0.017	-0.21331	Ь—
ERE ERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2 HUTCHINSON ENERGY CENTER GAS TURBINE 1		50.0 52.0	-0.19653 -0.19631	WERE	JEFFREY	1	470.0 470.0	0.017 0.017	-0.21353 -0.21331	
ERE	HUTCHINSON ENERGY CENTER GAS TORBINE 1		78.0	-0.19673		JEFFREY	1	470.0	0.017	-0.21373	
ERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0		WERE	JEFFREY	1	470.0	0.017	-0.26526	
ERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0		WERE	JEFFREY	1	470.0	0.017	-0.26526	
ERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0	-0.19631		LAWRENC	11	120.6	0.0106	-0.20691	
ERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1 1	51.0 18.0		WERE	LAWRENC LAWRENC	1	120.6	0.0106	-0.25886 -0.20691	-
ERE ERE	HUTCHINSON ENERGY CENTER UNIT 2 BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.19631 -0.24826	WERE	LAWRENC	1	120.6 120.6	0.0106 0.0106	-0.25886	
ERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2		50.0		WERE	LAWRENC	1	120.6	0.0106	-0.20713	
ERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4		78.0	-0.19673		LAWRENC	1	120.6	0.0106	-0.20733	
ERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3		52.0	-0.19673		LAWRENC	1	120.6	0.0106	-0.20733	
ERE	HUTCHINSON ENERGY CENTER UNIT 4	1	191.0	-0.19673		LAWRENC	11	120.6	0.0106	-0.20733	
ERE	BPU - CITY OF MCPHERSON STEAM PLANT BPU - CITY OF MCPHERSON GAS TURBINE 4	1 1	27.0 79.0		WERE WERE	LAWRENC LAWRENC	1	120.6 120.6	0.0106 0.0106	-0.25886 -0.25326	
ERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1		52.0	-0.24200		LAWRENC	1	120.6	0.0106	-0.20691	-
ERE	HUTCHINSON ENERGY CENTER UNIT 3	1	31.0	-0.19631		LAWRENC	1	120.6	0.0106	-0.20691	
ERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0		WERE	LAWRENC	1	120.6	0.0106	-0.25886	
ERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0		WERE	EVANS EN	1	37.7	0.00051	-0.24317	
ERE ERE	BPU - CITY OF MCPHERSON GAS TURBINE 2 BPU - CITY OF MCPHERSON GAS TURBINE 3	1 1	52.0 50.0		WERE WERE	EVANS EN	<u>1</u> 1	37.7 37.7	0.00051 0.00051	-0.24877 -0.24877	
ERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0	-0.19631		EVANS EN	1	37.7	0.00051	-0.19682	
ERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4		78.0	-0.19673		EVANS EN	1	37.7	0.00051	-0.19724	
ERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0	-0.19631		EVANS EN	1	37.7	0.00051	-0.19682	
ERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0		WERE	EVANS EN	11	37.7	0.00051	-0.24877	
ERE ERE	BPU - CITY OF MCPHERSON STEAM PLANT	1 1	27.0 31.0		WERE	EVANS EN	<u>1</u> 1	37.7	0.00051	-0.24877	<u> </u>
ERE	HUTCHINSON ENERGY CENTER UNIT 3 HUTCHINSON ENERGY CENTER GAS TURBINE 2		50.0	-0.19631 -0.19653	WERE	EVANS EN	1	37.7 37.7	0.00051 0.00051	-0.19682 -0.19704	
ERE	HUTCHINSON ENERGY CENTER UNIT 4	1	191.0	-0.19673		EVANS EN	1	37.7	0.00051	-0.19724	
ERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	52.0	-0.19631		EVANS EN	1	37.7	0.00051	-0.19682	
ERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3		52.0	-0.19673		EVANS EN	1	37.7	0.00051	-0.19724	
ERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0	-0.19631		WACO	11	18.0	-0.00208	-0.19423	
ERE ERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2 HUTCHINSON ENERGY CENTER UNIT 3	1	50.0	-0.19653 -0.19631		WACO WACO	1	18.0	-0.00208 -0.00208	-0.19445	₩
ERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	31.0 50.0	-0.19631		WACO	1	18.0 18.0	-0.00208	-0.19423 -0.24618	\vdash
ERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.24826		WACO	1	18.0			
ERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.24826		WACO	1	18.0	-0.00208	-0.24618	
RE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.24826		WACO	1	18.0		-0.24618	$ldsymbol{\Box}$
ERE ERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1 HUTCHINSON ENERGY CENTER UNIT 4	1 1	52.0 191.0	-0.19631 -0.19673		WACO WACO	<u>1</u> 1	18.0 18.0		-0.19423 -0.19465	₩
ERE	HUTCHINSON ENERGY CENTER UNIT 4 HUTCHINSON ENERGY CENTER GAS TRUBINE 4		78.0	-0.19673		WACO	1	18.0		-0.19465	\vdash
ERE	HUTCHINSON ENERGY CENTER UNIT 1	1	18.0	-0.19631	WERE	WACO	1	18.0		-0.19423	
ERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3		52.0	-0.19673	WERE	WACO	1	18.0	-0.00208	-0.19465	
ERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.24266		WACO	1	18.0		-0.24058	
ERE ERE	BPU - CITY OF MCPHERSON STEAM PLANT BPU - CITY OF MCPHERSON GAS TURBINE 1	1 1	27.0	-0.24826		CITY OF V	<u>1</u> 1	16.3			
ERE ERE	HUTCHINSON ENERGY CENTER UNIT 3	1	51.0 31.0	-0.24826 -0.19631		CITY OF V	1	16.3 16.3			
ERE	HUTCHINSON ENERGY CENTER UNIT 4	1	191.0	-0.19673		CITY OF V	1	16.3		-0.1956	
ERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.24826	WERE	CITY OF V	1	16.3	-0.00113	-0.24713	
ERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.24266	WERE	CITY OF V	1	16.3	-0.00113	-0.24153	
RE	HUTCHINSON ENERGY CENTER GAS TURBINE 3		52.0	-0.19673		CITY OF V	1 1	16.3			
ERE ERE	HUTCHINSON ENERGY CENTER UNIT 1 HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1 1	18.0 78.0	-0.19631 -0.19673		CITY OF V	<u>1</u> 1	16.3			
ERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4 HUTCHINSON ENERGY CENTER UNIT 2	1	78.0 18.0	-0.19673		CITY OF V	1	16.3 16.3			
ERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.13031		CITY OF V	1	16.3			
ERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	50.0	-0.19653		CITY OF V	1	16.3			
ERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1		52.0	-0.19631		CITY OF V	11	16.3			
ERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.24826		CITY OF V	6	11.0			
ERE ERE	HUTCHINSON ENERGY CENTER UNIT 2 HUTCHINSON ENERGY CENTER UNIT 1	1 1	18.0 18.0	-0.19631 -0.19631		CITY OF V	6	11.0 11.0			
ERE	HUTCHINSON ENERGY CENTER UNIT 1 HUTCHINSON ENERGY CENTER GAS TURBINE 2		50.0	-0.19653		CITY OF V	6	11.0			\vdash
ERE	BPU - CITY OF MCPHERSON GAS TURBINE 4	1	79.0	-0.19655		CITY OF V	6	11.0			_
ERE	HUTCHINSON ENERGY CENTER UNIT 4	1	191.0	-0.19673		CITY OF V	6	11.0			
	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.24826		CITY OF V	6	11.0			
ERE ERE	BPU - CITY OF MICPHERSON GAS TURBINE 1	1	51.0	-0.24826		CITY OF V	6	11.0			

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

 $\underline{\textbf{Table 6}} \text{ - Potential Redispatch Relief Pairs to Prevent Deferral of Service}$

Wichita - Reno Co 345KV NORTH AMERICAN PHILIPS JUNCTION (SOUTH) - WEST MCPHERSON 115KV CKT 2 From-To EAST MCPHERSON - SUMMIT 230KV CKT 1 57374574381568725687312210WP

Upgrade: Limiting Facility: Direction: Line Outage: Flowgate:

Flowgate: Date Redispatch Needed:	57374574381568725687312210WP 12/1/09-4/1/10		-								
Reservation 610383	Relief Amount 0.9	Aggregate Relief Amount 0.9									
010363	0.9	0.9	Maximum		Sink			Maximum			Redispatch
Source Control Area	Source	Source Id	Increment (MW)	GSF	Control Area	Sink	Sink Id	Decrement (MW)	GSF	Factor	Amount (MW)
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2 BPU - CITY OF MCPHERSON GAS TURBINE 4	1	50.0 79.0	-0.19653 -0.24266	WERE WERE	JEFFREY JEFFREY	1	470.0 470.0	0.01633 0.01633	-0.21286 -0.25899	
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.19673	WERE	JEFFREY	1	470.0	0.01633	-0.21306	
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1 BPU - CITY OF MCPHERSON GAS TURBINE 1	1	52.0 51.0	-0.19631 -0.24826		JEFFREY JEFFREY	1	470.0 470.0	0.01633 0.01633	-0.21264 -0.26459	4
WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	191.0	-0.19673	WERE	JEFFREY	1	470.0	0.01633	-0.21306	4
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 3 BPU - CITY OF MCPHERSON STEAM PLANT	1	31.0 27.0	-0.19631 -0.24826		JEFFREY JEFFREY	1	470.0 470.0	0.01633 0.01633	-0.21264 -0.26459	- 4
WERE WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4 BPU - CITY OF MCPHERSON GAS TURBINE 2	1	78.0 52.0	-0.19673 -0.24826		JEFFREY JEFFREY	1	470.0 470.0	0.01633 0.01633	-0.21306 -0.26459	
WERE	HUTCHINSON ENERGY CENTER UNIT 2	1	18.0	-0.19631	WERE	JEFFREY	1	470.0	0.01633	-0.21264	4
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3 HUTCHINSON ENERGY CENTER UNIT 1	1	50.0 18.0	-0.24826 -0.19631		JEFFREY JEFFREY	1	470.0 470.0	0.01633 0.01633	-0.26459 -0.21264	4
WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	78.0	-0.19673	WERE	JEFFREY	1	470.0	0.017	-0.21373	4
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 4 HUTCHINSON ENERGY CENTER UNIT 2	1	191.0 18.0	-0.19673 -0.19631	WERE	JEFFREY JEFFREY	1	470.0 470.0	0.017 0.017	-0.21373 -0.21331	4
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1 HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	51.0 52.0	-0.24826 -0.19631		JEFFREY JEFFREY	1	470.0 470.0	0.017 0.017	-0.26526 -0.21331	
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.24826	WERE	JEFFREY	1	470.0	0.017	-0.26526	4
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4 HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	79.0 50.0	-0.24266 -0.19653		JEFFREY JEFFREY	1	470.0 470.0	0.017 0.017	-0.25966 -0.21353	4
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.24826	WERE	JEFFREY	1	470.0	0.017	-0.26526	4
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2 HUTCHINSON ENERGY CENTER UNIT 1	1	52.0 18.0	-0.24826 -0.19631		JEFFREY JEFFREY	1	470.0 470.0	0.017 0.017	-0.26526 -0.21331	2
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 3 HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	31.0 52.0	-0.19631 -0.19673		JEFFREY JEFFREY	1	470.0 470.0	0.017 0.017	-0.21331 -0.21373	4
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.19673	WERE	JEFFREY	1	470.0	0.017	-0.21373	4
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 2 HUTCHINSON ENERGY CENTER UNIT 1	1	18.0 18.0			JEFFREY JEFFREY	1	470.0 470.0	0.017 0.017	-0.21331 -0.21331	
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.24826	WERE	JEFFREY	1	470.0	0.017	-0.26526	4
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2 BPU - CITY OF MCPHERSON GAS TURBINE 4	1	52.0 79.0	-0.24826 -0.24266		JEFFREY JEFFREY	1	470.0 470.0	0.017 0.017	-0.26526 -0.25966	- 4
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 4 HUTCHINSON ENERGY CENTER UNIT 3	1	191.0 31.0	-0.19673 -0.19631		JEFFREY JEFFREY	1	470.0 470.0	0.017 0.017	-0.21373 -0.21331	4
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	50.0	-0.19653	WERE	JEFFREY	1	470.0	0.017	-0.21353	4
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1 HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	52.0 78.0	-0.19631 -0.19673		JEFFREY JEFFREY	1	470.0 470.0	0.017 0.017	-0.21331 -0.21373	4
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.24826	WERE	JEFFREY	1	470.0	0.017	-0.26526	4
WERE WERE	BPU - CITY OF MCPHERSON STEAM PLANT BPU - CITY OF MCPHERSON GAS TURBINE 1	1	27.0 51.0	-0.24826 -0.24826		JEFFREY LAWRENC	1	470.0 120.6	0.017 0.0106	-0.26526 -0.25886	4
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3	1	50.0	-0.24826	WERE	LAWRENC	1	120.6	0.0106	-0.25886	4
WERE WERE	BPU - CITY OF MCPHERSON STEAM PLANT BPU - CITY OF MCPHERSON GAS TURBINE 4	1	27.0 79.0	-0.24826 -0.24266		LAWRENC LAWRENC	1	120.6 120.6	0.0106 0.0106	-0.25886 -0.25326	4
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.24826	WERE	LAWRENC	1	120.6	0.0106	-0.25886	4
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4 BPU - CITY OF MCPHERSON GAS TURBINE 2	1	79.0 52.0	-0.24266 -0.24826		EVANS EN	1	37.7 37.7	0.00051 0.00051	-0.24317 -0.24877	4
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3 BPU - CITY OF MCPHERSON GAS TURBINE 1	1	50.0 51.0	-0.24826 -0.24826		EVANS EN	1	37.7 37.7	0.00051 0.00051	-0.24877 -0.24877	4
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.24826	WERE	EVANS EN	1	37.7	0.00051	-0.24877	4
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 3 BPU - CITY OF MCPHERSON GAS TURBINE 2	1	50.0 52.0	-0.24826 -0.24826		WACO WACO	1	18.0 18.0	-0.00208 -0.00208	-0.24618 -0.24618	4
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1	1	51.0	-0.24826	WERE	WACO	1	18.0	-0.00208	-0.24618	4
WERE WERE	BPU - CITY OF MCPHERSON STEAM PLANT BPU - CITY OF MCPHERSON GAS TURBINE 4	1	27.0 79.0	-0.24826 -0.24266		WACO WACO	1	18.0 18.0	-0.00208 -0.00208	-0.24618 -0.24058	4
WERE WERE	BPU - CITY OF MCPHERSON STEAM PLANT BPU - CITY OF MCPHERSON GAS TURBINE 1	1	27.0 51.0	-0.24826 -0.24826		CITY OF V	1	16.3 16.3	-0.00113 -0.00113	-0.24713 -0.24713	4
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 2	1	52.0	-0.24826	WERE	CITY OF V	1	16.3	-0.00113	-0.24713	4
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4 BPU - CITY OF MCPHERSON GAS TURBINE 3	1	79.0 50.0	-0.24266 -0.24826		CITY OF V	1	16.3 16.3	-0.00113 -0.00113	-0.24153 -0.24713	4
WERE	BPU - CITY OF MCPHERSON STEAM PLANT	1	27.0	-0.24826	WERE	CITY OF V	6	11.0	-0.00113	-0.24713	4
WERE WERE	BPU - CITY OF MCPHERSON GAS TURBINE 4 BPU - CITY OF MCPHERSON GAS TURBINE 2	1	79.0 52.0	-0.24266 -0.24826		CITY OF V	6	11.0 11.0	-0.00113 -0.00113	-0.24153 -0.24713	4
WERE	BPU - CITY OF MCPHERSON GAS TURBINE 1 HUTCHINSON ENERGY CENTER UNIT 1	1	51.0	-0.24826 -0.19631		CITY OF V	6	11.0	-0.00113	-0.24713	4
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 1 HUTCHINSON ENERGY CENTER UNIT 2	1	18.0 18.0	-0.19631		LAWRENC LAWRENC	1	120.6 120.6	0.0106 0.0106	-0.20691 -0.20691	5
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2 HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	50.0 78.0	-0.19653 -0.19673		LAWRENC LAWRENC	1	120.6 120.6	0.0106 0.0106	-0.20713 -0.20733	
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.19673	WERE	LAWRENC	1	120.6	0.0106	-0.20733	5
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 4 HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	191.0 52.0	-0.19673 -0.19631		LAWRENC LAWRENC	1	120.6 120.6	0.0106 0.0106	-0.20733 -0.20691	5
WERE	HUTCHINSON ENERGY CENTER UNIT 3 HUTCHINSON ENERGY CENTER UNIT 2	1	31.0	-0.19631	WERE	LAWRENC	1	120.6	0.0106	-0.20691	Ę
WERE WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	18.0 78.0	-0.19631 -0.19673	WERE	EVANS EN	1	37.7 37.7	0.00051 0.00051	-0.19682 -0.19724	5
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 1 HUTCHINSON ENERGY CENTER UNIT 3	1	18.0 31.0	-0.19631 -0.19631		EVANS EN	1	37.7 37.7	0.00051 0.00051	-0.19682 -0.19682	5
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	50.0	-0.19653	WERE	EVANS EN	1	37.7	0.00051	-0.19704	5
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 4 HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	191.0 52.0	-0.19673 -0.19631		EVANS EN	1	37.7 37.7	0.00051 0.00051	-0.19724 -0.19682	5
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.19673	WERE	EVANS EN	1	37.7	0.00051	-0.19724	5
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 2 HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	18.0 50.0	-0.19631 -0.19653		WACO	1	18.0 18.0	-0.00208 -0.00208	-0.19423 -0.19445	5
WERE	HUTCHINSON ENERGY CENTER UNIT 3 HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	31.0	-0.19631	WERE	WACO	1	18.0	-0.00208	-0.19423	5
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 4	1	52.0 191.0	-0.19631 -0.19673	WERE	WACO WACO	1	18.0 18.0		-0.19423 -0.19465	5
WERE WERE	HUTCHINSON ENERGY CENTER GAS TRUBINE 4 HUTCHINSON ENERGY CENTER UNIT 1	1	78.0 18.0	-0.19673 -0.19631	WERE	WACO	1	18.0 18.0	-0.00208	-0.19465 -0.19423	
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.19673	WERE	WACO	1	18.0	-0.00208	-0.19465	Ę
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 3 HUTCHINSON ENERGY CENTER UNIT 4	1	31.0 191.0	-0.19631 -0.19673		CITY OF V	1	16.3 16.3	-0.00113 -0.00113	-0.19518 -0.1956	
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 3	1	52.0	-0.19673	WERE	CITY OF V	1	16.3	-0.00113	-0.1956	Ę
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 1 HUTCHINSON ENERGY CENTER GAS TRUBINE 4	1	18.0 78.0	-0.19631 -0.19673		CITY OF V	1	16.3 16.3	-0.00113 -0.00113	-0.19518 -0.1956	
WERE	HUTCHINSON ENERGY CENTER UNIT 2 HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	18.0	-0.19631	WERE	CITY OF V	1	16.3	-0.00113	-0.19518	Ę
WERE WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	50.0 52.0	-0.19653 -0.19631	WERE	CITY OF V	1	16.3 16.3	-0.00113 -0.00113	-0.1954 -0.19518	
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 2 HUTCHINSON ENERGY CENTER UNIT 1	1	18.0 18.0	-0.19631 -0.19631		CITY OF V	6	11.0 11.0	-0.00113 -0.00113	-0.19518 -0.19518	Ę
WERE	HUTCHINSON ENERGY CENTER GAS TURBINE 2	1	50.0	-0.19653	WERE	CITY OF V	6	11.0	-0.00113	-0.1954	5
WERE WERE	HUTCHINSON ENERGY CENTER UNIT 4 HUTCHINSON ENERGY CENTER GAS TURBINE 1	1	191.0 52.0	-0.19673 -0.19631		CITY OF V	6	11.0 11.0		-0.1956 -0.19518	5
	Maximum Increment were determine from the Souce and	Sink Opera							0.00113	0.13010	

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