

# Aggregate Facility Study SPP-2006-AG1-AFS-2 For Transmission Service Requested by Aggregate Transmission Customers

SPP Engineering, SPP Tariff Studies

SPP AGGREGATE FACILITY STUDY (SPP-2006-AG1-AFS-2)

June 2, 2006

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# SPP AGGREGATE FACILITY STUDY (SPP-2006-AG1-AFS-2)

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### **<u>1. Executive Summary</u>**

Pursuant to Attachment Z of the Southwest Power Pool Open Access Transmission Tariff (OATT), 1979 MW of long-term transmission service requests have been restudied in this final Aggregate Facility Study (AFS). This phase of the AFS consists of revisions to reflect the withdrawal of requests after the AFS was posted on May 4<sup>th</sup>, 2006. 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 restudy is \$271,695,858. Additionally \$ 0 of assigned E & C cost for 3<sup>rd</sup> party facility upgrades are assignable to the customer. The total upgrade levelized revenue requirement for all transmission requests is \$1,034,182,791. 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, the deferred reservation period without interim redispatch, or the reservation period with interim

redispatch if applicable based on customer intention to pursue redispatch agreements. Total upgrade levelized revenue requirements for all transmission requests after consideration of potential base plan funding is \$646,644,144. For those customers who have chosen to pursue redispatch in lieu of deferral of start of service, levelized revenue requirements will be based upon the deferred start date with redispatch. Redispatch was evaluated to provide only interim service during the time frame prior to completion of any assigned network upgrades.

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, 0 third-party facilities were identified. Total engineering and construction cost estimates for required third-party facility upgrades are \$0.

The posting of this study will open a 15-day window for Customer response. To complete the request for Transmission Service, the Transmission Provider must leave the OASIS reservation confirmed on OASIS and the Transmission Provider will then follow up with Service Agreements and required letter of credit for facility upgrades. Otherwise, if the customer chooses to withdraw from this Aggregate Transmission Service Study, a request must be made to the Transmission Provider to ANNUL the reservation by June 16th.

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. Service Agreements will be tendered based on full allocation of revenue requirements for facility upgrades assignable to the customer contingent upon verification of designated resources meeting Attachment J, Section III B criteria for base plan funding.

After receipt of a Service Agreement from the Transmission Provider, the Customer shall have 15 days to execute a Service Agreement or request the filing of an unexecuted Service Agreement or the request will be deemed terminated and withdrawn. Agreements for generation redispatch in lieu of deferral of start of service must be negotiated by the Transmission Customer and generation owner with a copy of the agreement provided to SPP prior to start of transmission service.

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

# 2. Introduction

On January 21, 2005, the Federal Energy Regulatory Commission accepted Southwest Power Pool's proposed aggregate transmission study procedures in Docket ER05-109 to become effective February 1, 2005. The proposed cost allocation and cost recovery provisions were accepted for filing and suspended to become effective the earlier of five months from the requested effective date (July 1, 2005) or a further order of the Commission in the proceeding subject to refund. Since that time, the cost allocation and cost recovery provisions have been accepted with modification. The following link can be used to access the SPP Regulatory/FERC webpage:

(http://www.spp.org/Objects/FERC\_filings.cfm). The hyperlinks under the heading ER05-109 (Attach Z Filing) open Southwest Power Pool's October 29, 2004 filing

SPP AGGREGATE FACILITY STUDY (SPP-2006-AG1-AFS-2) June 2, 2006 Page 5 of 113 containing Attachment Z to the SPP OATT and the Commission's January 21, 2005 Order. In compliance with this Order, the third open season commenced on October 1, 2005. All requests for long-term transmission service received prior to February 1, 2006 with a signed study agreement were then included in the third Aggregate Transmission Service Study (ATSS).

Approximately 1979MW of long-term transmission service has been restudied in this Aggregate Facility Study (AFS) with over \$271 Million in transmission upgrades being proposed. The results of the AFS are detailed in Tables 1 through 6. A highly tangible benefit of studying transmission requests aggregately under the SPP OATT Attachment Z is the sharing of costs among customers using the same facility. The detailed results show individual upgrade costs by study as well as potential base plan allowances as determined by Attachments J and Z. The following link can be used to access the SPP OATT: (http://www.spp.org/Publications/SPP Tariff.pdf). In order to understand the extent to which base plan upgrades may be applied to both point-to-point and network transmission services, it is necessary to highlight the definition of Designated Resource. Per Section 1.9a of the SPP OATT, a Designated Resource is "[a]ny designated generation resource owned, purchased or leased by a Transmission Customer to serve load in the SPP Region. Designated Resources do not include any resource, or any portion thereof, that is committed for sale to third parties or otherwise cannot be called upon to meet the Transmission Customer's load on a non-interruptible basis." Therefore, not only network service, but also point-to-point service has potential for base plan funding if the conditions for classifying upgrades associated with designated resources as base plan upgrades as defined in Section III.B of Attachment J are met.

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

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

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

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

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

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

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

Some constraints identified in the AFS were not assigned to the Customer as the Transmission Provider determined that upgrades are not required due to various reasons or the Transmission Owner has construction plans pending for these upgrades. These facilities are listed by reservation in Table 3. This table also includes constrained facilities in the current planning horizon that limit the rollover rights of the Transmission Customer. Table 6 lists possible redispatch pairs to allow start of service prior to completion of assigned network upgrades.

## A. <u>Financial Analysis</u>

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. The upgrade levelized revenue requirement includes interest, depreciation, and carrying costs.

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

In the event that the engineering and construction of a previously assigned Network Upgrade may be expedited, with no additional upgrades, to accommodate a new request for Transmission Service, then the levelized present worth of only the incremental expenses though the reservation period of the new request, excluding depreciation, shall be assigned to the new request. These incremental expenses, excluding depreciation, include 1) the levelized difference in present worth of the engineering and construction expenses given the change in date to complete construction to account for additional interest expense and reduced engineering and construction expense due to inflation, 2) the

levelized present worth of all expediting fees, and 3) the levelized present worth of the incremental annual carrying charges, excluding depreciation and interest, during the new reservation period taking into account both a) the reservation in which the project was originally assigned, and b) a reservation, if any, in which the project was previously expedited.

### **B.** Third-Party Facilities

For third-party facilities listed in Table 3 and Table 5, the Transmission Customer is responsible for funding the necessary upgrades of these facilities per Section 21.1 of the Transmission Provider's OATT. In this AFS, 0 third-party facilities were identified. Total

engineering and construction cost estimates for required third-party facility upgrades are \$0. The Transmission Provider will undertake reasonable efforts to assist the Transmission Customer in making arrangements for necessary engineering, permitting, and construction of the third-party facilities. Third-party facility upgrade engineering and construction cost estimates are not utilized to determine the present worth value of levelized revenue requirements for SPP system network upgrades.

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

# 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

SPP AGGREGATE FACILITY STUDY (SPP-2006-AG1-AFS-2) June 2, 2006 Page 10 of 113 110% and 90%. The SPS Tuco 230 kV bus voltage is monitored at 92.5% due to predetermined system stability limitations.

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

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

### B. Model Development

SPP used fifteen seasonal models to study the aggregate transfers of 1979 MW over a variety of requested service periods. The SPP MDWG 2006 Series Cases Update 1 2006 Summer Peak (06SP), 2006 Summer Shoulder (06SH), 2006 Fall Peak (06FA), 2006/07 Winter Peak (06WP), 2007 April Minimum (07AP), 2007 Spring Peak (07G), 2007 Summer Peak (07SP), 2007Summer Shoulder (07SH), 2007 Fall Peak (07FA), 2007/08 Winter Peak (07WP), 2008 Summer Peak (08SP), 2008/09 Winter Peak (08WP), 2011 Summer Peak (11SP), 2011/12 Winter Peak (11WP), and 2016 Summer Peak (16SP) were used to study the impact of the requested service on the transmission system.

SPP AGGREGATE FACILITY STUDY (SPP-2006-AG1-AFS-2) June 2, 2006 Page 11 of 113 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 1979 MW in order to minimize counterflows among requested service. Each request was included in two to four groups depending on the requested path. From the thirteen seasonal models, three system scenarios were developed. Scenario 1 includes SWPP OASIS transmission requests not already included in the SPP 2006 Series Cases flowing in a West to East direction with ERCOT exporting and SPS exporting to outside zones and exporting to the Lamar HVDC Tie. Scenario 2 includes transmission requests not already included in the SPP 2006 Series Cases flowing in an East to West direction with ERCOT net importing and SPS importing from an outside zone and exporting to the Lamar HVDC Tie. Scenario 3 includes transmission requests not already included in the SPP 2006 Series Cases flowing in a West to East direction with ERCOT net importing and SPS importing from an outside zone and importing from the Lamar HVDC Tie. Scenario 4 includes transmission requests not already included in the SPP 2006 Series Cases flowing in a North to South direction with ERCOT importing and SPS importing from outside zones and importing from the Lamar HVDC tie. The system scenarios were developed to minimize counter flows from previously confirmed, higher priority requests not included in the MDWG Base Case.

# C. Transfer Analysis

Using the selected cases both with and without the requested transfers modeled, the PSS/E Activity ACCC was run on the cases and compared to determine the facility

overloads caused or impacted by the transfer. Transfer distribution factor cutoffs (SPP and 1<sup>st</sup>-Tier) and voltage threshold (0.02 change below 0.90 pu) were applied to determine the impacted facilities. The PSS/E options chosen to conduct the analysis can be found in Appendix A.

## D. Curtailment and Redispatch Evaluation

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

SPP determined potential relief pairs to relieve the incremental MW impact on limiting facilities as identified in Table 6. Using the selected cases where the limiting facilities were identified, potential incremental and decremental units were identified by determining the generation amount available for increasing and decreasing from the units generation amount, maximum generation amount, and minimum generation amount. If the incremental or decremental amount was greater than 1 MW, the unit was considered

as a potential incremental or decremental unit. Generation shift factors were calculated for the potential incremental and decremental units using Managing and Utilizing System Transmission (MUST). From the generation shift factors for the incremental and decremental units, top 100 relief pairs with a greater than 3% TDF were determined from the incremental units with the lowest generation shift factors and decremental units with highest generation shift factors. The potential relief pairs **were** evaluated to determine impacts on limiting facilities in the SPP and 1st-Tier systems.

## 4. Study Results

### A. Study Analysis Results

Tables 1 through 6 contain the steady-state analysis results of the ASIS. Table 1 identifies the participating long-term transmission service requests included in the AFS. This table lists deferred start and stop dates both with and without redispatch (if applicable), the minimum annual allocated ATC without upgrades and season of first impact. Table 2 identifies total E & C cost allocated to each Transmission Customer, letter of credit requirements, third party E & C cost assignments, potential base plan E & C funding (lower of allocated E & C or Attachment J Section III B criteria), total revenue requirements for assigned upgrades without consideration of potential base plan funding, point-to-point base rate charge, total revenue requirements for assigned upgrades with consideration of potential base plan funding, and final total cost allocation to the Transmission Customer. Table 3 provides additional details for each request including all assigned facility upgrades required, allocated E & C costs, allocated revenue requirements for upgrades, upgrades not assigned to customer but required for service to be confirmed, facilities limiting rollover rights, credits to be paid for previously assigned AFS facility upgrades, and any third party upgrades required. This includes the season in the planning horizon where rollover rights are limited. Table 4 lists all upgrade requirements with associated solutions needed to provide transmission

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service for the AFS, Minimum ATC per upgrade with season of impact, Earliest Date Upgrade is required (COD), Estimated Date of Upgrade Completion (EOC), and Estimated E & C cost. Table 5 lists identified Third-Party constrained facilities. Table 6 identifies potential redispatch pairs available to relieve the aggregate impacts on identified constraints to prevent deferral of start of service.

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

Regarding application of base plan funding for PTP requests, if PTP base rate exceeds upgrade revenue requirements without taking into effect the reduction of revenue requirements by potential base plan funding, then the base rate revenue pays back the

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Transmission Owner for upgrades and no base plan funding is applicable as the access charge must be paid as it is the higher of "OR" pricing.

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

### Example A:

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

### Example B:

E & C allocated for upgrades is 74 million with revenue requirements of 140 million and PTP base rate of 101 million. Potential base plan funding is 10 million with the difference of 64 million E & C assignable to the customer. If the revenue requirements for this assignable portion is 128 million and the PTP base rate is 101 million the customer will pay the higher "OR" pricing of 128 million revenue requirements to be paid back to the Transmission Owners and the remaining revenue requirements of (140-128) or 12 million will be paid by base plan funding.

Example C:

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

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

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

### **B. Study Definitions**

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

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# 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 posting of this study will open a 15-day window for Customer response. To complete the request for Transmission Service, the Transmission Provider must leave the OASIS reservation confirmed on OASIS and the Transmission Provider will then follow up with Service Agreements and required letter of credit for facility upgrades. Otherwise, if the customer chooses to withdraw from this Aggregate Transmission Service Study, a request must be made to the Transmission Provider to ANNUL the reservation by June 16th.

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

# <u>Appendix A</u>

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

### BASE CASES:

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

- 1. Tap adjustment Stepping
- 2. Area interchange control Tie lines and loads
- 3. Var limits Apply immediately
- 4. Solution options  $\underline{X}$  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 -3 mw
- 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. contrg. case Vltg chng for report -0.02
- 12. Sorted output None

Newton Solution:

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

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					Demuseted	Deswaated	Demuseted	Deferred	Deferred	Mimimum Allocated ATC	Season of Minimum
Customer	Study Number	Reservation	POR	POD	Requested Amount	Requested Start Date	Requested Stop Date	Start Date <sup>1</sup>	Stop Date <sup>1</sup>	(MW) within reservation	Allocated ATC within
	Study Number			-				Start Date	Stop Date	period	reservation period
AEPM	AG1-2006-006D	1019914	CSWS	CSWS	168	7/1/2008	7/1/2013			0	08SP
AEPM	AG1-2006-007D	1023236	WFEC		80	1/1/2007	1/1/2027	12/1/2007 3	12/1/2027	0	06WP
EDE	AG1-2006-027	1032183	EES	EDE	50	6/1/2010	6/1/2040			0	11SP
GSEC	AG1-2006-094	1034404	SECI	SPS	400	2/1/2011	2/1/2041			0	11SP
GSEC	AG1-2006-095	1034476	CSWS	CSWS	10	8/1/2006	8/1/2036	4/1/2011	4/1/2041	0	06WP
GSEC	AG1-2006-096	1034489	CSWS	CSWS	10	8/1/2006	8/1/2036	4/1/2011	4/1/2041	0	06WP
INDP	AG1-2006-051	1033791	KCPL	INDN	50	6/1/2010	6/1/2040			0	11SP
KCPS	AG1-2006-009	979750	KCPL	KCPL	168	6/1/2009	6/1/2029			0	11SP
KCPS	AG1-2006-070	1034307	<sup>1</sup> KCPL	EES	103	6/1/2006	6/1/2007			0	06SP
KCPS	AG1-2006-012	1035259	<sup>1</sup> WPEK	KCPL	101	6/1/2006	6/1/2037			0	06SP
KMEA	AG1-2006-068	1034247	GRDA	WR	1	5/1/2010	5/1/2026	12/1/2010	12/1/2026	0	06SP
KMEA	AG1-2006-089	1034542	KCPL	KCPL	136	6/1/2006	6/1/2016			32	N/A
KMEA	AG1-2006-076	1037591	GRDA	WPEK	1	6/1/2006	6/1/2026	6/1/2009	6/1/2029	0	06SP
KPP	AG1-2006-041	1032990	WR	WR	127	6/1/2006	6/1/2016	12/1/2010	12/1/2020	0	07FA
KPP	AG1-2006-042	1032991	WPEK	WPEK	80	6/1/2006	6/1/2016			0	06SP
MIDW	AG1-2006-082	1034589	<sup>1</sup> WR	WR	10	1/1/2007	1/1/2012	10/1/2007 <sup>3</sup>	10/1/2012	0	06WP
MIDW	AG1-2006-082	1034590	<sup>1</sup> WR	WR	25	1/1/2007	1/1/2012	10/1/2007 <sup>3</sup>	10/1/2012	0	06WP
MIDW	AG1-2006-084	1034595	<sup>1</sup> WR	WR	50	4/1/2007	4/1/2027	10/1/2007 <sup>3</sup>	10/1/2027	0	07SH
NTEC	AG1-2006-062	1037581	CSWS	CSWS	6	6/1/2006	6/1/2018			6	N/A
OGE	AG1-2006-040	1032973	<sup>1</sup> OKGE	OKGE	120	9/1/2006	9/1/2031	12/1/2007 <sup>3</sup>	12/1/2032	0	06WP
OMPA	AG1-2006-010	977481	<sup>1</sup> GRDA	OKGE	25	5/1/2007	5/1/2040			0	07FA
UCU	AG1-2006-008D	984053	WR	MPS	178	1/1/2010	1/1/2030	12/1/2010	12/1/2030	0	11SP
UCU	AG1-2006-063D	1034276	WR	MPS	50	6/1/2007	6/1/2027	4/1/2011 <sup>2</sup>	4/1/2031	0	07SP
WRGS	AG1-2006-029D	1031553	<sup>1</sup> KCPL	AECI	15	6/1/2006	6/1/2007			0	06SH
WRGS	AG1-2006-037D	1032955	<sup>1</sup> AECI	KCPL	15	6/1/2006	6/1/2007			0	06SP

<sup>1</sup>Start and Stop Dates are determined based on customers choosing option to pursue redispatch to start service at Requested Start and Stop Dates or earliest date possible.

<sup>2</sup>Reservation being deferred due to impact on limitations requiring upgrade of the Wichita - Reno 345kV project.

<sup>3</sup>Disregard Redispatch shown in Table 6 for limitations identified earlier than the start date with redispatch with the exception of limitations identified in the 2006 Summer Shoulder, 2006 Fall Peak, 2007 Spring Peak, 2007 April Minimum, 2007 Summer Shoulder, and 2007 Fall Peak.

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	1	r	Engineering and Construction		Potential Base Plan	' Total Revenue Requirements for Assigned	Total Revenue Requirements for Assigned	1	<sup>2</sup> Total Cost of Reservation
			Cost of Upgrades Allocated to	6 Letter of Credit	Engineering and	Upgrades over term of reservation WITHOUT	Upgrades over term of reservation WITH potential	Point-to-Point Base	Assignable to Customer
			Customer for Revenue	Amount	Construction Funding	potential base plan funding allocation in	base plan funding allocation in consideration of	Rate over reservation	
0	Of the New York and	Deservetion							contingent upon base plan
Customer	Study Number AG1-2006-010	977481	Requirements \$ 546.215	Required	Allowable \$ 546.215	consideration of redispatch if applicable \$ 1.852.044	redispatch if applicable	period	funding Schedule 9 charges
OMPA									
KCPS	AG1-2006-009	979750		\$ 4,256,262	\$ 4,777,384		> -		Schedule 9 charges
UCU	AG1-2006-008D	984053		\$ 6,150,401	\$ -	\$ 30,938,331	\$ 30,938,331	\$ 68,821,920	\$ 68,821,920
AEPM	AG1-2006-006D	1019914		\$ 5,213,924	\$ 5,903,997		\$ -	\$ -	Schedule 9 charges
AEPM	AG1-2006-007D	1023236		\$ 7,641,888	\$ 1,440,000	\$ 20,268,199	\$ 16,597,816	\$ -	\$ 16,597,816
WRGS	AG1-2006-029D	1031553			\$-	\$ -	\$ -	\$ 153,000	\$ 153,000
EDE	AG1-2006-027	1032183			\$-	\$ -	\$ -		Schedule 9 charges
WRGS	AG1-2006-037D	1032955		\$ 53,881	\$-	\$ 82,142		+	\$ 158,400
OGE	AG1-2006-040	1032973		\$ 2,807,073	\$ 1,440,000		\$ 9,049,302	\$-	\$ 9,049,302
KPP	AG1-2006-041	1032990	\$ 5,000,595	\$ 5,027,972 <sup>4</sup>	\$ 4,447,765	\$ 16,213,221	\$ 1,792,418	\$-	\$ 1,792,418
KPP	AG1-2006-042	1032991	\$ -	\$ 42,390 <sup>5</sup>	\$-	\$ -	\$ -	\$ -	Schedule 9 charges
INDP	AG1-2006-051	1033791	\$ 1,187,769	\$ 1,187,769	\$ -	\$ 5,102,718	\$ 5,102,717	\$ 15,840,000	\$ 15,840,000
KMEA	AG1-2006-068	1034247	\$ 204,652	\$ 204,652	\$ 180,000	\$ 803,560	\$ 96,795	\$ 249,600	\$ 249,600
UCU	AG1-2006-063D	1034276	\$ 4,574,105	\$ 2,534,362	\$ 900,000	\$ 17,845,788	\$ 14,334,455	\$ 19,332,000	\$ 19,332,000
KCPS	AG1-2006-070	1034307	\$ 472,366	\$ 486,015	\$-	\$ 720,123	\$ 720,123	\$ 1,050,600	\$ 1,050,600
GSEC	AG1-2006-094	1034404	\$ 148,934,125	\$ 148,980,779 <sup>1</sup>	\$ 72,000,000	\$ 640,557,534	\$ 330,889,468	\$ -	\$ 330,889,468
GSEC	AG1-2006-095	1034476	\$ 7.270.953	\$ 7.360.953	\$ -	\$ 37,670,633	\$ 37,670,633	\$ -	\$ 37,670,633
GSEC	AG1-2006-096	1034489	\$ 7,270,953	\$ 7,360,953	\$ -	\$ 37,670,633	\$ 37,670,633	\$ -	\$ 37,670,633
MIDW	AG1-2006-082	1034589	\$ 10.563.209	\$ 10.565.239	\$ 1,800,000	\$ 25,240,832	\$ 20,939,725	\$ -	\$ 20,939,725
MIDW	AG1-2006-082	1034590		\$ 26,413,528	\$ 4.500.000	\$ 63,103,143		\$ -	\$ 52,350,368
MIDW	AG1-2006-084	1034595	\$ 5.002.288	\$ 5.002.288	\$ 900.000	\$ 19.372.855	\$ 15.887.336	\$ -	\$ 15.887.336
KCPS	AG1-2006-012	1035259			\$ 1,260,000	\$ 73,816,831	\$ 69,726,990	\$ 28,797,120	\$ 69,726,990
NTEC	AG1-2006-062	1037581	\$ -	\$ -	\$ -	s -	\$	\$ -	Schedule 9 charges
KMEA	AG1-2006-076	1037591	\$ 1,092,029	\$ 1,130,157	\$ 180,000	\$ 3,346,498	\$ 2,794,892	\$ 199,512	\$ 2,794,892
			\$ 271,695,859		\$ 100,275,361	\$ 1,034,182,791	\$ 646,644,144		

Note 1. 400MW potential base plan funding for year 2011 for GSEC

Note 2. For PTP requests, total cost is based on the higher of the base rate or assigned upgrade revenue requirements. For Network requests, the total cost is based on the assigned upgrade revenue requirement. Allocation of base plan funding will be determined after verification of designated resource meeting Attachment J, Section II B Criteria. Additionally E & C of 3rd Party upgrades is assignable to Customer. Revenue requirements for 3rd Party facilities are not calculated. Total cost to customer is based on assumption of Revenue Requirements with confirmation of base plan funding. Customer is responsible for negotiating redispatch costs if applicable. Customer is also responsible to pay credits for previously assigned upgrades that are impacted by their request. Credits required will be determined at a later date.

Note 3. If potential base plan funding is applicable, this value is the lesser of the Engineering and Construction costs of assignable upgrades or the value of base plan funding calculated pursuant to Attachment J, Section III B criteria. Allocation of base plan funding is contingent upon verification of customer agreements meeting Attachment J, Section II B criteria. Not applicable if PTP base rate exceeds revenue requirements.

Note 4: 177MW potential base plan funding for year 2006 for KPP.

Note 5: 92MW potential base plan funding for year 2008 for KPP WPEK requests.

Note 6: Letter of Credit required for financial security for transmission owner for network upgrades is determined by allocated engineering and construction costs less engineering and construction costs for upgrades when network customer is the transmission owner plus network upgrades for assigned upgrades less that \$100,000 which are base plan funded but still require a letter of credit.

Note 7: Revenue Requirements are based upon customer's prior selection of intention to pursue redispatch if applicable.

SPP Aggregate Facility Study (SPP-2006-AG1-AFS-2) June 2, 2006 Page 21 of 113

### Study Number AG1-2006-006D Customer

AEPM

				Requested	Requested Start	Requested	Deferred	Deferred	Potential Base Plan	Point-to-Point	Allocate E & C	Total Revenue
Customer	Reservation	POR	POD	Amount	Date	Stop Date	Start Date	Stop Date	Funding Allowable	Base Rate	Cost	Requirements
AEPM	1019914	CSWS	CSWS	168	7/1/2008	7/1/2013			\$ 4,048,443	\$-	\$ 5,903,997	1
									\$ 4,048,443	\$-	\$ 5,903,997	\$ 10,292,312

				Allocated E & C		Total Revenue
Reservation	Upgrade Name	COD	EOC	Cost	Total E & C Cost	Requirements
1019914	ALUMAX TAP - BANN 138KV CKT 1	6/1/2008	6/1/2008	\$ 690,073	\$ 1,000,000	\$ 1,369,574
	Mooreland - Potter 345 kV SPS	2/1/2011	2/1/2011	\$ 2,026,413	\$ 61,850,000	
	Mooreland - Potter 345 kV WFEC	2/1/2011	2/1/2011	\$ 81,908	\$ 2,500,000	\$ 146,045
	Mooreland 345/138 kV Transformer	2/1/2011	2/1/2011	\$ 316,638	\$ 5,000,000	\$ 564,577
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	2/1/2011	2/1/2011	\$ 361,060	\$ 8,727,217	\$-
	Spearville - Mooreland 345 kV SUNC	2/1/2011	2/1/2011	\$ 1,447,405		\$ 3,079,991
	Spearville - Mooreland 345 kV WFEC	2/1/2011	2/1/2011	\$ 980,500	\$ 21,000,000	\$ 1,748,267
			Total	\$ 5,903,997	\$ 131,077,217	\$ 10,292,312

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
1019914	ALUMAX TAP - NORTHWEST TEXARKANA 138KV CKT 1	6/1/2007	6/1/2008
	BANN - NW TEXARKANA-BANN T 138KV CKT 1	6/1/2013	6/1/2013
	LINWOOD - MCWILLIE STREET 138KV CKT 1	6/1/2007	6/1/2008
	SNYDER - SNYDER INTERCONNECTION	2/1/2011	2/1/2011

#### Customer Study Number AG1-2006-007D

AEPM

				Requested	Requested Start	Requested	Deferred	Deferred	Potential Base Plan	Point-to-Point	Allocate E & C	Total Revenue
Customer	Reservation	POR	POD	Amount	Date	Stop Date	Start Date	Stop Date	Funding Allowable	Base Rate	Cost	Requirements
AEPM	1023236	WFEC	CSWS	80	1/1/2007	1/1/2027	12/1/2007	12/1/2027	\$ 1,440,000	\$-	\$ 7,966,815	
									\$ 1,440,000	\$-	\$ 7,966,815	\$ 20,268,199

				Allocated E & C		Total Revenue
	Upgrade Name	COD	EOC	Cost	Total E & C Cost	Requirements
1023236	36TH & LEWIS - 52ND & DELAWARE TAP 138KV CKT 1	6/1/2016	6/1/2016	\$ 15,000	\$ 15,000	\$-
	ALUMAX TAP - BANN 138KV CKT 1	6/1/2008	6/1/2008	\$ 309,927	\$ 1,000,000	\$ 980,600
	FPL SWITCH - MOORELAND 138KV CKT 1 OKGE	6/1/2006				
	FPL SWITCH - MOORELAND 138KV CKT 1 WFEC	6/1/2006	2/1/2008	\$ 18,056		
	FT SUPPLY - WOODWARD 69KV CKT 1	4/1/2007				
	FT SUPPLY 138/69KV TRANSFORMER CKT 1	12/1/2006	6/1/2008	\$ 1,500,000	\$ 1,500,000	\$ 3,539,286
	HAMON BUTLER - MOREWOOD 69KV CKT 1	6/1/2006				
	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1	6/1/2006	6/1/2008	\$ 460,343	\$ 1,500,000	\$ 2,132,021
			Total	\$ 7,966,815	\$ 12,785,000	\$ 20,268,199

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
1023236	ALUMAX TAP - NORTHWEST TEXARKANA 138KV CKT 1	6/1/2007	6/1/2008
	BANN - NW TEXARKANA-BANN T 138KV CKT 1	6/1/2013	6/1/2013
	CASHION CAP BANK	12/1/2006	12/1/2007
	LINWOOD - MCWILLIE STREET 138KV CKT 1	6/1/2007	6/1/2008

#### Customer Study Number

AG1-2006-027 EDE

				Requested	Requested Start	Requested	Deferred	Deferred	Potential Base Plan	Point-to-Point	Allocate E & C	Total Revenue
Customer	Reservation	POR	POD	Amount	Date	Stop Date	Start Date	Stop Date	Funding Allowable	Base Rate	Cost	Requirements
EDE	1032183	EES	EDE	50	6/1/2010	6/1/2040			\$-	\$-		i l
									\$ -	\$ -	\$-	\$-

				Allocated E & C		Total Revenue
Reservation	Upgrade Name	COD	EOC	Cost	Total E & C Cost	Requirements
1032183	None			\$-	\$-	\$-
			Total	\$-	\$-	\$-

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

Reservation	Upgrade Name	COD	EOC
1032183	BULL SHOALS - BULL SHOALS 161KV CKT 1	6/1/2009	6/1/2009
	JAMESVILLE - SUB 415 - BLACKHAWK JCT. 69KV CKT 1	6/1/2013	6/1/2013
	JONES - JONESBORO 161KV CKT 1	6/1/2009	6/1/2009
	SUB 110 - ORONOGO JCT. (ORONOGO) 161/69/12.5KV TRANSFORMER CKT 1	6/1/2015	6/1/2015
	SUB 124 - AURORA H.T SUB 152 - MONETT H.T. 69KV CKT 1	6/1/2010	
	SUB 145 - JOPLIN WEST 7TH - SUB 64 - JOPLIN 10TH ST. 69KV CKT 1	6/1/2012	6/1/2012
	SUB 389 - JOPLIN SOUTHWEST (JOPLINSW) 161/69/12.5KV TRANSFORMER CKT 1	6/1/2015	6/1/2015

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

Reservation	Upgrade Name	COD	EOC
1032183	SUB 110 - ORONOGO JCT SUB 167 - RIVERTON 161KV CKT 1	6/1/2011	6/1/2011
	SUB 110 - ORONOGO JCT. (ORONOGO) 161/69/12.5KV TRANSFORMER CKT 1	6/1/2011	6/1/2011

#### Study Number AG1-2006-096 Customer

GSEC

				Requested	Requested Start	Requested	Deferred	Deferred	Potential Base Plan	Point-to-Point	Allocate E & C	Total Revenue
Customer	Reservation	POR	POD	Amount	Date	Stop Date	Start Date	Stop Date	Funding Allowable	Base Rate	Cost	Requirements
GSEC	1034489	CSWS	CSWS	10	8/1/2006	8/1/2036	4/1/2011	4/1/2041	\$-	\$-	\$ 7,360,953	
									\$-	\$-	\$ 7,360,953	\$ 28,089,010

				Allocated E & C		Total Revenue
Reservation	Upgrade Name	COD	EOC	Cost	Total E & C Cost	Requirements
1034489	ALTUS JCT TAP - RUSSELL 138KV CKT 1 WFEC	6/1/2010	6/1/2010	\$ 914,223	\$ 3,125,000	\$ 2,993,114
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	2/1/2011	2/1/2011	\$ 10,142	\$ 1,515,113	\$ 46,081
	ELDORADO - LAKE PAULINE 69KV CKT 1	6/1/2016				
	GSEC Midway Interconnection	6/1/2006	6/1/2006	\$ 35,000	\$ 70,000	\$-
	GYPSUM - RUSSELL 69KV CKT 1	6/1/2012	6/1/2012	\$ 350,000	\$ 700,000	\$ 1,088,803
	HAMON BUTLER - MOREWOOD 69KV CKT 1	6/1/2006	2/1/2008	\$ 82,149	\$ 3,400,000	\$ 296,882
	HOBART JUNCTION - TAMARAC TAP 138KV CKT 1	6/1/2014	6/1/2014	\$ 50,000	\$ 100,000	\$-
	MIDWAY 69 KV STATCOM	6/1/2006	10/1/2007	\$ 1,500,000	\$ 3,000,000	\$-
	Mooreland - Potter 345 kV SPS	2/1/2011	2/1/2011		\$ 61,850,000	\$ 4,412,128
	Mooreland - Potter 345 kV WFEC	2/1/2011	2/1/2011	\$ 39,251	\$ 2,500,000	\$ 126,341
	Mooreland 345/138 kV Transformer	2/1/2011	2/1/2011	\$ 66,797	\$ 5,000,000	\$ 215,005
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	2/1/2011	2/1/2011	\$ 130,683	\$ 8,727,217	\$ 86,356
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	2/1/2011	2/1/2011	\$ 19,006	\$ 3,200,000	\$-
	Spearville - Mooreland 345 kV SUNC	2/1/2011	2/1/2011	\$ 123,683	\$ 31,000,000	\$ 566,028
	Spearville - Mooreland 345 kV WFEC	2/1/2011	2/1/2011		\$ 21,000,000	\$ 269,686
	WEATHERFORD SOUTHEAST (WTH_SE) 138/69/13.8KV TRANSFORMER CKT 1	6/1/2010	6/1/2010	\$ 1,000,000	\$ 2,000,000	\$ 5,179,081
	WICHITA - RENO CO 345KV	6/1/2006	4/1/2011	\$ 1,980,168	\$ 42,000,000	\$ 12,809,504
			Total	\$ 7,360,953	\$ 189,197,330	\$ 28,089,010

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
1034489	Bowers Project	6/1/2010	6/1/2010
	Carter JCT Capcitor	6/1/2011	6/1/2011
	CLINTON CITY - THOMAS TAP 69KV CKT 1	6/1/2016	6/1/2016
	ELK CITY - ELK CITY 69KV CKT 1	12/1/2007	12/1/2007
	NICHOLS STATION 230/115KV TRANSFORMER CKT 1	12/1/2011	12/1/2011
	NICHOLS STATION 230/115KV TRANSFORMER CKT 2	6/1/2015	6/1/2011
	SNYDER - SNYDER INTERCONNECTION	2/1/2011	2/1/2011
	THOMAS TAP - WEATHERFORD 69KV CKT 1	6/1/2011	6/1/2011

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

Reservation	Upgrade Name	COD	EOC
1034489	BEELINE - EXPLORER GLENPOOL 138KV CKT 1	6/1/2009	6/1/2009
	CACHE - SNYDER 138KV CKT 1	6/1/2008	6/1/2008
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	6/1/2009	6/1/2009
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 OKGE	6/1/2009	6/1/2009

### Study Number AG1-2006-095 Customer

GSEC

				Requested	Requested Start	Requested	Deferred	Deferred	Potential Base Plan	Point-to-Point	Allocate E & C	Total Revenue
Customer	Reservation	POR	POD	Amount	Date	Stop Date	Start Date	Stop Date	Funding Allowable	Base Rate	Cost	Requirements
GSEC	1034476	CSWS	CSWS	10	8/1/2006	8/1/2036	4/1/2011	4/1/2041	\$-	\$-	\$ 7,360,953	
									\$ -	\$-	\$ 7,360,953	\$ 28,089,010

				Allocated E & C		Total Revenue
Reservation	Upgrade Name	COD	EOC	Cost	Total E & C Cost	Requirements
1034476	ALTUS JCT TAP - RUSSELL 138KV CKT 1 WFEC	6/1/2010	6/1/2010	\$ 914,223		\$ 2,993,114
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	2/1/2011	2/1/2011	\$ 10,142	\$ 1,515,113	\$ 46,081
	ELDORADO - LAKE PAULINE 69KV CKT 1	6/1/2016				
	GSEC Midway Interconnection	6/1/2006				
	GYPSUM - RUSSELL 69KV CKT 1	6/1/2012	6/1/2012			\$ 1,088,803
	HAMON BUTLER - MOREWOOD 69KV CKT 1	6/1/2006			\$ 3,400,000	\$ 296,882
	HOBART JUNCTION - TAMARAC TAP 138KV CKT 1	6/1/2014				
	MIDWAY 69 KV STATCOM	6/1/2006			\$ 3,000,000	\$-
	Mooreland - Potter 345 kV SPS	2/1/2011	2/1/2011			\$ 4,412,128
	Mooreland - Potter 345 kV WFEC	2/1/2011	2/1/2011	\$ 39,251	\$ 2,500,000	
	Mooreland 345/138 kV Transformer	2/1/2011	2/1/2011	\$ 66,797	\$ 5,000,000	\$ 215,005
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	2/1/2011	2/1/2011			
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	2/1/2011	2/1/2011		\$ 3,200,000	\$-
	Spearville - Mooreland 345 kV SUNC	2/1/2011	2/1/2011		\$ 31,000,000	
	Spearville - Mooreland 345 kV WFEC	2/1/2011	2/1/2011	\$ 83,785	\$ 21,000,000	\$ 269,686
	WEATHERFORD SOUTHEAST (WTH_SE) 138/69/13.8KV TRANSFORMER CKT 1	6/1/2010	6/1/2010	\$ 1,000,000		\$ 5,179,081
	WICHITA - RENO CO 345KV	6/1/2006	4/1/2011	\$ 1,980,168	\$ 42,000,000	\$ 12,809,504
			Total	\$ 7,360,953	\$ 189,197,330	\$ 28,089,010

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
1034476	Bowers Project	6/1/2010	6/1/2010
	Carter JCT Capcitor	6/1/2011	
	CLINTON CITY - THOMAS TAP 69KV CKT 1	6/1/2016	
	ELK CITY - ELK CITY 69KV CKT 1	12/1/2007	
	NICHOLS STATION 230/115KV TRANSFORMER CKT 1	12/1/2011	12/1/2011
	NICHOLS STATION 230/115KV TRANSFORMER CKT 2	6/1/2015	6/1/2011
	SNYDER - SNYDER INTERCONNECTION	2/1/2011	2/1/2011
	THOMAS TAP - WEATHERFORD 69KV CKT 1	6/1/2011	6/1/2011

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

Reservation	Upgrade Name	COD	EOC
1034476	BEELINE - EXPLORER GLENPOOL 138KV CKT 1	6/1/2009	6/1/2009
	CACHE - SNYDER 138KV CKT 1	6/1/2008	6/1/2008
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	6/1/2009	6/1/2009
	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 OKGE	6/1/2009	6/1/2009

#### Customer Study Number

AG1-2006-094 GSEC

				Requested	Requested Start	Requested	Deferred	Deferred	Potential Base Plan	Point-to-Point	Allocate E & C	Total Revenue
Customer	Reservation	POR	POD	Amount	Date	Stop Date	Start Date	Stop Date	Funding Allowable	Base Rate	Cost	Requirements
GSEC	1034404	SECI	SPS	400	2/1/2011	2/1/2041	2/1/2011	2/1/2041	\$ 74,075,397	\$ -	\$ 148,980,779	
									\$ 74.075.397	s -	\$ 148,980,779	\$ 464.341.472

				Allocated E & C		Total Revenue
Reservation	Upgrade Name	COD	EOC	Cost	Total E & C Cost	Requirements
1034404	ALTUS JCT TAP - RUSSELL 138KV CKT 1 WFEC	6/1/2010	6/1/2010	\$ 1,296,554	\$ 3,125,000	\$ 4,215,382
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	2/1/2011	2/1/2011	\$ 1,494,360	\$ 1,515,113	\$ 6,702,173
	GREENSBURG - JUDSON LARGE 115KV CKT 1	6/1/2006				
	LEA COUNTY INTERCHANGE 230KV CAPACITORS	2/1/2011	2/1/2011			
	MEDICINE LODGE - SUN CITY 115KV CKT 1	6/1/2007	10/1/2007	\$ 46,654	\$ 100,000	\$-
	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	6/1/2011	6/1/2011	\$ 1,600,815		
	Mooreland - Potter 345 kV SPS	2/1/2011	2/1/2011	\$ 54,157,362	\$ 61,850,000	\$242,894,640
	Mooreland - Potter 345 kV WFEC	2/1/2011	2/1/2011		\$ 2,500,000	\$ 6,997,216
	Mooreland 345/138 kV Transformer	2/1/2011	2/1/2011	\$ 2,227,080	\$ 5,000,000	\$ 7,118,742
	Potter - Roosevelt 345KV	2/1/2011	2/1/2011	\$ 36,777,839	\$ 38,504,390	\$ 33,800,319
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	2/1/2011	2/1/2011	\$ 7,536,338	\$ 8,727,217	\$ 14,160,487
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	2/1/2011	2/1/2011	\$ 3,157,314		
	Spearville - Mooreland 345 kV SUNC	2/1/2011	2/1/2011			\$100,127,829
	Spearville - Mooreland 345 kV WFEC	2/1/2011	2/1/2011	\$ 14,960,932	\$ 21,000,000	\$ 47,821,817
			Total	\$ 148,980,779	\$ 181,255,857	\$464,341,472

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
1034404	Carter JCT Capcitor	6/1/2011	6/1/2011
	COX INTERCHANGE - LH-COX3 115KV CKT 1	6/1/2016	6/1/2016
	HALE CO INTERCHANGE - LH-COX3 115KV CKT 1	6/1/2016	6/1/2016
	MOORE COUNTY INTERCHANGE	12/1/2011	12/1/2011
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2016	6/1/2016
	YOAKUM COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	6/1/2011	6/1/2011

#### Customer Study Number AG1-2006-051

INDP

				Requested	Requested Start	Requested	Deferred	Deferred	Potential Base Plan	Point-to-Point	Allocate E & C	Total Revenue
Customer	Reservation	POR	POD	Amount	Date	Stop Date	Start Date	Stop Date	Funding Allowable	Base Rate	Cost	Requirements
INDP	1033791	KCPL	INDN	50	6/1/2010	6/1/2040			\$-	\$ 15,840,000	\$ 1,187,769	
									\$-	\$ 15,840,000	\$ 1,187,769	\$ 4,703,241

				Allocated E & C		Total Revenue
Reservation	Upgrade Name	COD	EOC	Cost	Total E & C Cost	Requirements
1033791	166TH STREET - JAGGARD JUNCTION 115KV CKT 1	6/1/2009	6/1/2009	\$ 147,526	\$ 1,000,000	\$ 764,599
	166TH STREET - JARBALO JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2009	6/1/2009	\$ 280,299	\$ 1,900,000	\$-
	JAGGARD JUNCTION - PENTAGON 115KV CKT 1	6/1/2009			\$ 1,500,000	
	STRANGER CREEK - NW LEAVENWORTH 115KV	6/1/2009	6/1/2009	\$ 538,655	\$ 2,400,000	\$ 2,791,744
			Total	\$ 1,187,769	\$ 6,800,000	\$ 4,703,241

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
1033791	STRANGER CREEK TRANSFORMER CKT 2	6/1/2016	6/1/2016

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

Reservation	Upgrade Name	COD	EOC
1033791	IATAN - ST JOE 345KV CKT 1	12/1/2011	4/1/2007
	IATAN5 161 - PLATTE CITY 161KV CKT 1	6/1/2010	6/1/2010

### Customer Study Number

KCPS AG1-2006-009

				Requested	Requested Start	Requested	Deferred	Deferred	Potential Base Plan	Point-to-Point	Allocate E & C	Total Revenue
Customer	Reservation	POR	POD	Amount	Date	Stop Date	Start Date	Stop Date	Funding Allowable	Base Rate	Cost	Requirements
KCPS	979750	KCPL	KCPL	168	6/1/2009	6/1/2029			\$ 2,715,680	\$-	\$ 4,777,384	
									\$ 2,715,680	\$-	\$ 4,777,384	\$ 13,400,735

				Allocated E & C		Total Revenue
Reservation	Upgrade Name	COD	EOC	Cost	Total E & C Cost	Requirements
979750	166TH STREET - JAGGARD JUNCTION 115KV CKT 1	6/1/2009	6/1/2009	\$ 544,299	\$ 1,000,000	\$ 2,024,932
	166TH STREET - JARBALO JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2009	6/1/2009	\$ 1,034,169	\$ 1,900,000	\$-
	COLLEGE - CRAIG 161KV CKT 1	6/1/2016	6/1/2016	\$ 521,122	\$ 700,000	\$ 1,413,723
	JAGGARD JUNCTION - PENTAGON 115KV CKT 1	6/1/2009	6/1/2009	\$ 816,449	\$ 1,500,000	\$ 3,037,400
	STRANGER CREEK - NW LEAVENWORTH 115KV	6/1/2009	6/1/2009	\$ 1,861,345	\$ 2,400,000	\$ 6,924,681
			Total	\$ 4,777,384	\$ 7,500,000	\$ 13,400,735

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
979750	AVONDALE - GLADSTONE 161KV CKT 1	6/1/2014	6/1/2014
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2016	6/1/2016

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

Reservation	Upgrade Name	COD	EOC
979750	IATAN - ST JOE 345KV CKT 1	12/1/2011	4/1/2007
	IATAN5 161 - PLATTE CITY 161KV CKT 1	6/1/2010	6/1/2010

### Customer Study Number

KCPS AG1-2006-012

				Requested	Requested Start	Requested	Deferred	Deferred	Potential Base Plan	Point-to-Point	Allocate E & C	Total Revenue
Customer	Reservation	POR	POD	Amount	Date	Stop Date	Start Date	Stop Date	Funding Allowable	Base Rate	Cost	Requirements
KCPS	1035259	WPEK	KCPL	101	6/1/2006	6/1/2037			\$ 1,260,000	\$ 33,063,360	\$ 22,794,864	
									\$ 1 260 000	\$ 33,063,360	\$ 22 794 864	\$ 66,005,005

				Allocated E & C		Total Revenue
Reservation	Upgrade Name	COD	EOC	Cost	Total E & C Cost	Requirements
1035259	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2006	2/1/2008	\$ 1,052,676	\$ 1,300,000	\$ 4,517,686
	COLLEGE - CRAIG 161KV CKT 1	6/1/2016	6/1/2016	\$ 178,878	\$ 700,000	\$ 515,643
	GREENSBURG - JUDSON LARGE 115KV CKT 1	6/1/2006	2/1/2007	\$ 82,853	\$ 153,114	\$ 399,101
	LAWRENCE HILL (LAWHL29X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2016				
	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2006	10/1/2008	\$ 2,151,663	\$ 4,244,500	\$ 9,234,121
	MEDICINE LODGE - SUN CITY 115KV CKT 1	6/1/2007	10/1/2007		\$ 100,000	\$-
	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	6/1/2011	6/1/2011	\$ 1,353,520	\$ 3,200,000	\$-
	Mooreland - Potter 345 kV SPS	2/1/2011	2/1/2011	\$ 3,202,574	\$ 61,850,000	\$ 10,119,237
	Mooreland - Potter 345 kV WFEC	2/1/2011	2/1/2011			
	Mooreland 345/138 kV Transformer	2/1/2011	2/1/2011	\$ 1,806,109	\$ 5,000,000	\$ 4,800,775
	Potter - Roosevelt 345KV	2/1/2011	2/1/2011		\$ 38,504,390	
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	2/1/2011	2/1/2011			
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	2/1/2011	2/1/2011	\$ 4,154	\$ 3,200,000	\$ -
	Spearville - Mooreland 345 kV SUNC	2/1/2011	2/1/2011			\$ 20,340,072
	Spearville - Mooreland 345 kV WFEC	2/1/2011	2/1/2011			\$ 10,377,089
	STULL SWITCHING STATION - TECUMSEH HILL 115KV CKT 1	6/1/2007	6/1/2008	\$ 565,008	\$ 2,750,000	\$ 2,462,752
			Total	\$ 22,794,864	\$ 186,479,221	\$ 66,005,005

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
1035259	AVONDALE - GLADSTONE 161KV CKT 1	6/1/2014	6/1/2014
	Carter JCT Capcitor	6/1/2011	6/1/2011
	JEC - SWISSVALE 345KV	12/1/2007	12/1/2010
	MOCKINGBIRD HILL SWITCHING STATION - STULL SWITCHING STATION 115KV CKT 1	10/1/2007	6/1/2008
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2016	6/1/2016

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

Reservation	Upgrade Name	COD	EOC
1035259	IATAN - ST JOE 345KV CKT 1	12/1/2011	4/1/2007
	IATAN5 161 - PLATTE CITY 161KV CKT 1	6/1/2010	6/1/2010
	LACYGNE-PAOLA-WEST GARDER 345KV	6/1/2007	6/1/2008
	St John CAPACITOR	6/1/2008	6/1/2008

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### Customer Study Number

KCPS AG1-2006-070

				Requested	Requested Start	Requested	Deferred	Deferred	Potential Base Plan	Point-to-Point	Allocate E & C	Total Revenue
Customer	Reservation	POR	POD	Amount	Date	Stop Date	Start Date	Stop Date	Funding Allowable	Base Rate	Cost	Requirements
KCPS	1034307	KCPL	EES	103	6/1/2006	6/1/2007			\$ -	\$ 1,050,600	\$ 486,015	
									\$-	\$ 1,050,600	\$ 486,015	\$ 720,123

				Allocated E & C		Total Revenue
Reservation	Upgrade Name	COD	EOC	Cost	Total E & C Cost	Requirements
1034307	BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1	6/1/2006	2/1/2008	\$ 472,366	\$ 1,605,500	\$ 720,123
	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1	6/1/2006	10/1/2007	\$ 13,649	\$ 50,000	\$-
			Total	\$ 486.015	\$ 1.655.500	\$ 720.123

#### Customer Study Number KMEA AG1-2006-068

				Requested	Requested Start	Requested	Deferred	Deferred	Potential Base Plan	Point-to-Point	Allocate E & C	Total Revenue
Customer	Reservation	POR	POD	Amount	Date	Stop Date	Start Date	Stop Date	Funding Allowable	Base Rate	Cost	Requirements
KMEA	1034247	GRDA	WR	1	5/1/2010	5/1/2026	12/1/2010	12/1/2026	\$ 75,464	\$ 249,600	\$ 204,652	
									\$ 75,464	\$ 249,600	\$ 204,652	\$ 799,812

				Allocated E & C		Total Revenue
Reservation	Upgrade Name	COD	EOC	Cost	Total E & C Cost	Requirements
1034247	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	2/1/2011	2/1/2011	\$-	\$ 1,515,113	\$-
	KELLY - KING HILL N.M. COOP 115KV CKT 1	10/1/2006	6/1/2009	\$ 180,417	\$ 2,900,000	\$ 733,991
	Mooreland - Potter 345 kV SPS	2/1/2011	2/1/2011	\$ 1,882	\$ 61,850,000	\$ 5,586
	Mooreland - Potter 345 kV WFEC	2/1/2011	2/1/2011	\$ 76	\$ 2,500,000	\$ 187
	Mooreland 345/138 kV Transformer	2/1/2011	2/1/2011	\$ 3,673	\$ 5,000,000	\$ 9,051
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	2/1/2011	2/1/2011	\$ 1,263	\$ 8,727,217	
	Spearville - Mooreland 345 kV SUNC	2/1/2011	2/1/2011	\$ 10,338	\$ 31,000,000	\$ 33,738
	Spearville - Mooreland 345 kV WFEC	2/1/2011	2/1/2011	\$ 7,003	\$ 21,000,000	\$ 17,257
			Total	\$ 204.652	\$ 134,492,330	\$ 799.812

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
1034247	Carter JCT Capcitor	6/1/2011	6/1/2011
	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	10/1/2006	6/1/2009
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	10/1/2006	
	GRAY TAP - PENSACOLA 69KV CKT 1	6/1/2006	12/1/2008
	JEC - SWISSVALE 345KV	12/1/2007	12/1/2010
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2016	6/1/2016

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

l	Reservation	Upgrade Name	COD	EOC	
	1034247	412SUB - KANSAS TAP 161KV CKT 1	6/1/2015	6/1/2015	
Γ		412SUB - KERR 161KV CKT 1	6/1/2015	6/1/2015	
Г		SUB 110 - ORONOGO JCT SUB 167 - RIVERTON 161KV CKT 1	6/1/2011	6/1/2011	

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

Reservation	Upgrade Name	COD	EOC	
1034247	AEPW PLANNED UPGRADE FOR NW ARKANSAS	6/1/2006	6/1/2009	
	LACYGNE-PAOLA-WEST GARDER 345KV	6/1/2007	6/1/2008	

### Study Number AG1-2006-076 Customer

KMEA

				Requested	Requested Start	Requested	Deferred	Deferred	Potential Base Plan	Point-to-Point	Allocate E & C	Total Revenue
Customer	Reservation	POR	POD	Amount	Date	Stop Date	Start Date	Stop Date	Funding Allowable	Base Rate	Cost	Requirements
KMEA	1037591	GRDA	WPEK	1	6/1/2006	6/1/2026	6/1/2009	6/1/2029	\$ 147,976	\$ 234,720	\$ 1,130,157	
									\$ 147,976	\$ 234,720	\$ 1,130,157	\$ 3,343,080

147,976	\$ 234,720	\$ 1,130,157	\$ 3,343,08

				Allocated E & C		Total Revenue
Reservation	Upgrade Name	COD	EOC	Cost	Total E & C Cost	Requirements
1037591	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	6/1/2007	6/1/2007	\$ 5,518	\$ 40,000	\$-
	CLAY CENTER - GREENLEAF 115KV CKT 1	6/1/2007	10/1/2007	\$ 1,007,306	\$ 7,520,000	\$ 3,094,486
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	2/1/2011	2/1/2011	\$-	\$ 1,515,113	\$-
	KELLY - KING HILL N.M. COOP 115KV CKT 1	10/1/2006	6/1/2009	\$ 52,876	\$ 2,900,000	\$ 173,965
	Mooreland - Potter 345 kV SPS	2/1/2011	2/1/2011	\$ 3,763	\$ 61,850,000	\$ 8,799
	Mooreland - Potter 345 kV WFEC	2/1/2011	2/1/2011	\$ 152	\$ 2,500,000	\$ 333
	Mooreland 345/138 kV Transformer	2/1/2011	2/1/2011	\$ 4,499	\$ 5,000,000	\$ 9,844
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	2/1/2011	2/1/2011	\$ 1,462	\$ 8,727,217	\$-
	Spearville - Mooreland 345 kV SUNC	2/1/2011	2/1/2011	\$ 13,098	\$ 31,000,000	\$ 36,239
	Spearville - Mooreland 345 kV WFEC	2/1/2011	2/1/2011	\$ 8,873	\$ 21,000,000	\$ 19,415
	WASHINGTON 1800 KVAR CAPACITOR	6/1/2006	6/1/2007	\$ 32,610	\$ 75,000	\$-
			Total	\$ 1.130.157	\$ 142.127.330	\$ 3.343.080

Expansion Plan The requested convice is contin	agent upon completion of the following upgrades	Cost is not assignable to the transmission customer.
Expansion Flan - The requested service is contin	igent upon completion of the following upgrades.	

Reservation	Upgrade Name	COD	EOC
1037591	Carter JCT Capcitor	6/1/2011	6/1/2011
	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	10/1/2006	6/1/2009
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	10/1/2006	6/1/2009
	GRAY TAP - PENSACOLA 69KV CKT 1	6/1/2006	12/1/2008

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

Reservation	Upgrade Name	COD	EOC
1037591	412SUB - KANSAS TAP 161KV CKT 1	6/1/2015	6/1/2015
	412SUB - KERR 161KV CKT 1	6/1/2015	6/1/2015
	SUB 110 - ORONOGO JCT SUB 167 - RIVERTON 161KV CKT 1	6/1/2011	6/1/2011

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

F	Reservation	Upgrade Name	COD	EOC	
P	1037591	AEPW PLANNED UPGRADE FOR NW ARKANSAS	6/1/2006	6/1/2009	i i
		LACYGNE-PAOLA-WEST GARDER 345KV	6/1/2007	6/1/2008	
Г		PHILLIPSBURG - RHOADES 115KV	6/1/2007	6/1/2008	

#### Study Number Customer

KPP AG1-2006-042

				Requested	Requested Start	Requested	Deferred	Deferred	Potential Base Plan	Point-to-Point	Allocate E & C	Total Revenue
Customer	Reservation	POR	POD	Amount	Date	Stop Date	Start Date	Stop Date	Funding Allowable	Base Rate	Cost	Requirements
KPP	1032991	WPEK	WPEK	80	6/1/2006	6/1/2016			\$ 22,572	\$-	\$ 42,390	
											\$ 42,390	\$-

				Allocated E & C		Total Revenue
Reservation	Upgrade Name	COD	EOC	Cost	Total E & C Cost	Requirements
1032991	WASHINGTON 1800 KVAR CAPACITOR	6/1/2006	6/1/2007	\$ 42,390	\$ 75,000	\$-
			Total	\$ 42,390	\$ 75,000	\$ -

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
1032991	St John CAPACITOR	6/1/2008	6/1/2008

### Study Number AG1-2006-041 Customer

KPP

				Requested	Requested Start	Requested	Deferred	Deferred	Potential Base Plan	Point-to-Point	Allocate E & C	Total Revenue
Customer	Reservation	POR	POD	Amount	Date	Stop Date	Start Date	Stop Date	Funding Allowable	Base Rate	Cost	Requirements
KPP	1032990	WR	WR	127	6/1/2006	6/1/2016	12/1/2010	12/1/2020	\$ 3,734,398	\$ -	\$ 5,027,972	
									\$ 3,734,398	\$-	\$ 5,027,972	\$ 16,213,221

				Allocated E & C		Total Revenue
Reservation	Upgrade Name	COD	EOC	Cost	Total E & C Cost	Requirements
1032990	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	6/1/2007	6/1/2007	\$ 27,377	\$ 40,000	\$-
	CLAY CENTER - GREENLEAF 115KV CKT 1	6/1/2007	10/1/2007	\$ 5,000,595	\$ 7,520,000	\$ 16,213,221
			Total	\$ 5,027,972	\$ 7,560,000	\$ 16,213,221

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
1032990	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	10/1/2006	6/1/2009
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	10/1/2006	6/1/2009
	JEC - SWISSVALE 345KV	12/1/2007	12/1/2010

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	1
1032990	ROSE HILL JUNCTION - WEAVER 69KV CKT 1	6/1/2006	6/1/2007	1

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### Study Number AG1-2006-082 Customer

### MIDW

				Requested	Requested Start	Requested	Deferred	Deferred	Potential Base Plan	Point-to-Point	Allocate E & C	Total Revenue
Customer	Reservation	POR	POD	Amount	Date	Stop Date	Start Date	Stop Date	Funding Allowable	Base Rate	Cost	Requirements
MIDW	1034589	WR	WR	10	1/1/2007	1/1/2012	10/1/2007	10/1/2012	\$ 1,800,000	\$-	\$ 10,565,239	
MIDW	1034590	WR	WR	25	1/1/2007	1/1/2012	10/1/2007	10/1/2012	\$ 4,500,000	\$-	\$ 26,413,528	
									\$ 6.300.000	s -	\$ 36,978,767	\$ 88,237,214

				Allocated E & C		Total Revenue
Reservation	Upgrade Name	COD	EOC	Cost	Total E & C Cost	Requirements
1034589	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	6/1/2007	6/1/2007	\$ 2,030	\$ 40,000	\$-
	CLAY CENTER - GREENLEAF 115KV CKT 1	6/1/2007	10/1/2007	\$ 432,069	\$ 7,520,000	\$ 860,438
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	2/1/2011	2/1/2011	\$ 138	\$ 1,515,113	\$ 217
	GILL ENERGY CENTER EAST - GILLJCT269.0 69KV CKT 1 REDISPATCH	6/1/2007	10/1/2007	\$-	\$-	\$-
	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1 REDISPATCH	6/1/2007	10/1/2007		\$-	\$-
	KELLY - KING HILL N.M. COOP 115KV CKT 1	10/1/2006	6/1/2009	\$ 170,895	\$ 2,900,000	\$ 389,628
	Mooreland - Potter 345 kV SPS	2/1/2011	2/1/2011			\$ 52,759
	Mooreland - Potter 345 kV WFEC	2/1/2011	2/1/2011	\$ 1,356	\$ 2,500,000	\$ 2,341
	Mooreland 345/138 kV Transformer	2/1/2011	2/1/2011	\$ 67,183	\$ 5,000,000	\$ 115,984
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	2/1/2011	2/1/2011		\$ 8,727,217	
	Spearville - Mooreland 345 kV SUNC	2/1/2011	2/1/2011	\$ 188,846	\$ 31,000,000	\$ 384,749
	Spearville - Mooreland 345 kV WFEC	2/1/2011	2/1/2011		\$ 21,000,000	\$ 220,853
	STULL SWITCHING STATION - TECUMSEH HILL 115KV CKT 1	6/1/2007	6/1/2008			\$ 188,323
	WICHITA - RENO CO 345KV	6/1/2006	4/1/2011	\$ 9,439,105	\$ 42,000,000	\$ 22,995,033
			Total	\$ 10,565,239		\$ 25,210,325
1034590	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	6/1/2007	6/1/2007			
	CLAY CENTER - GREENLEAF 115KV CKT 1	6/1/2007	10/1/2007			\$ 2,150,812
	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	2/1/2011	2/1/2011		\$ 1,515,113	
	GILL ENERGY CENTER EAST - GILLJCT269.0 69KV CKT 1 REDISPATCH	6/1/2007	10/1/2007		\$ -	\$-
	GILL ENERGY CENTER EAST - MACARTHUR 69KV CKT 1 REDISPATCH	6/1/2007	10/1/2007		\$-	\$-
	KELLY - KING HILL N.M. COOP 115KV CKT 1	10/1/2006	6/1/2009		\$ 2,900,000	\$ 974,132
	Mooreland - Potter 345 kV SPS	2/1/2011	2/1/2011	\$ 83,967	\$ 61,850,000	\$ 132,023
	Mooreland - Potter 345 kV WFEC	2/1/2011	2/1/2011			\$ 5,859
	Mooreland 345/138 kV Transformer	2/1/2011	2/1/2011			
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	2/1/2011	2/1/2011		\$ 8,727,217	
	Spearville - Mooreland 345 kV SUNC	2/1/2011	2/1/2011			\$ 961,873
	Spearville - Mooreland 345 kV WFEC	2/1/2011	2/1/2011			\$ 552,132
	STULL SWITCHING STATION - TECUMSEH HILL 115KV CKT 1	6/1/2007	6/1/2008		\$ 2,750,000	\$ 470,771
	WICHITA - RENO CO 345KV	6/1/2006	4/1/2011			\$ 57,488,821
			Total	\$ 26,413,528	\$ 186,802,330	\$ 63,026,889

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
1034589	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1	12/1/2007	3/1/2008
	Carter JCT Capcitor	6/1/2011	6/1/2011
	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	10/1/2006	6/1/2009
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	10/1/2006	6/1/2009
	COUNTY LINE - HOOK JCT 115KV CKT 1	6/1/2011	6/1/2011
	FARMERS CONSUMER CO-OP - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2009	6/1/2009
	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1	6/1/2011	6/1/201
	JEC - SWISSVALE 345KV	12/1/2007	12/1/2010
	MOCKINGBIRD HILL SWITCHING STATION - STULL SWITCHING STATION 115KV CKT 1	10/1/2007	6/1/2008
	SOUTHWEST LAWRENCE - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2009	6/1/2009
1034590	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1	12/1/2007	3/1/2008
	Carter JCT Capcitor	6/1/2011	6/1/201
	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	10/1/2006	6/1/2009
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	10/1/2006	6/1/2009
	COUNTY LINE - HOOK JCT 115KV CKT 1	6/1/2011	6/1/201
	FARMERS CONSUMER CO-OP - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2009	6/1/2009
	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1	6/1/2011	6/1/201
	JEC - SWISSVALE 345KV	12/1/2007	12/1/2010
	MOCKINGBIRD HILL SWITCHING STATION - STULL SWITCHING STATION 115KV CKT 1	10/1/2007	6/1/2008
	SOUTHWEST LAWRENCE - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2009	6/1/2009

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

Reservation	Upgrade Name	COD	EOC
1034589	IATAN - ST JOE 345KV CKT 1	12/1/2011	4/1/2007
	IATAN5 161 - PLATTE CITY 161KV CKT 1	6/1/2010	6/1/2010
	PHILLIPSBURG - RHOADES 115KV	6/1/2007	6/1/2008
	St John CAPACITOR	6/1/2008	6/1/2008
1034590	IATAN - ST JOE 345KV CKT 1	12/1/2011	4/1/2007
	IATAN5 161 - PLATTE CITY 161KV CKT 1	6/1/2010	6/1/2010
	PHILLIPSBURG - RHOADES 115KV	6/1/2007	6/1/2008
	St John CAPACITOR	6/1/2008	6/1/2008

### Study Number AG1-2006-084 Customer

MIDW

				Requested	Requested Start	Requested	Deferred	Deferred	Potential Base Plan	Point-to-Point	Allocate E & C	Total Revenue
Customer	Reservation	POR	POD	Amount	Date	Stop Date	Start Date	Stop Date	Funding Allowable	Base Rate	Cost	Requirements
MIDW	1034595	WR	WR	50	4/1/2007	4/1/2027	10/1/2007	10/1/2027	\$ 900,000	\$ -	\$ 5,002,288	
									\$ 900,000	\$-	\$ 5,002,288	\$ 19,372,855

				Allocated E & C		Total Revenue
Reservation	Upgrade Name	COD	EOC	Cost	Total E & C Cost	Requirements
1034595	WICHITA - RENO CO 345KV	6/1/2006	4/1/2011	\$ 5,002,288	\$ 42,000,000	\$ 19,372,855
			Total	\$ 5,002,288	\$ 42,000,000	\$ 19,372,855

Expansion Pla	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					
1034595	JEC - SWISSVALE 345KV	12/1/2007	12/1/2010					
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2016	6/1/2016					

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

Reservation	Upgrade Name	COD	EOC	
1034595	IATAN - ST JOE 345KV CKT 1	12/1/2011	4/1/2007	
	PHILLIPSBURG - RHOADES 115KV	6/1/2007	6/1/2008	
	St John CAPACITOR	6/1/2008	6/1/2008	

#### Customer Study Number

NTEC AG1-2006-062

				Requested	Requested Start	Requested	Deferred	Deferred	Potential Base Plan	Point-to-Point	Allocate E & C	Total Revenue
Customer	Reservation	POR	POD	Amount	Date	Stop Date	Start Date	Stop Date	Funding Allowable	Base Rate	Cost	Requirements
NTEC	1037581	CSWS	CSWS	6	6/1/2006	6/1/2018			\$-	\$-		
									\$-	\$-	\$-	\$-

Reservation	Upgrade Name	COD	EOC	Allocated E & C Cost	Total E & C Cost	Total Revenue Requirements
1037581	None			\$-	\$-	\$ -
			Total	\$-	\$-	\$-

#### Study Number Customer

OGE AG1-2006-040

				Requested	Requested Start	Requested	Deferred	Deferred	Potential Base Plan	Point-to-Point	Allocate E & C	Total Revenue
Customer	Reservation	POR	POD	Amount	Date	Stop Date	Start Date	Stop Date	Funding Allowable	Base Rate	Cost	Requirements
OGE	1032973	OKGE	OKGE	120	9/1/2006	9/1/2031	12/1/2007	12/1/2032	\$ 1,440,000	\$-	\$ 3,963,814	
									\$ 1.440.000	s -	\$ 3,963,814	\$ 14 212 517

				Allocated E & C		Total Revenue
Reservation	Upgrade Name	COD	EOC	Cost	Total E & C Cost	Requirements
1032973	FPL SWITCH - MOORELAND 138KV CKT 1 OKGE	6/1/2006	4/1/2007	\$ 117,084	\$ 120,000	\$ 633,481
	FPL SWITCH - MOORELAND 138KV CKT 1 WFEC	6/1/2006	2/1/2008	\$ 731,944	\$ 750,000	\$ 1,999,204
	HAMON BUTLER - MOREWOOD 69KV CKT 1	6/1/2006	2/1/2008	\$ 2,075,129	\$ 3,400,000	\$ 5,954,782
	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1	6/1/2006	6/1/2008	\$ 1,039,657	\$ 1,500,000	\$ 5,625,050
			Total	\$ 3.963.814	\$ 5,770,000	\$ 14,212,517

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
1032973	CASHION CAP BANK	12/1/2006	12/1/2007
	COLONY - FT SMITH 161KV CKT 1	6/1/2011	6/1/2011
	PENNSYLVANIA - WESTMOORE 138KV CKT 1	10/1/2007	6/1/2008

Construction P	ending - The requested service is contingent upon completion of the following upgrades. Cost is not assig	nable to the t	ransmission (	customer.
Reservation	Upgrade Name	COD	EOC	
1032973	IODINE - WOODWARD 138kV CKT 1	6/1/2006	12/1/2006	

### Customer Study Number

OMPA AG1-2006-010

				Requested	Requested Start	Requested	Deferred	Deferred	Potential Base Plan	Point-to-Point	Allocate E & C	Total Revenue
Customer	Reservation	POR	POD	Amount	Date	Stop Date	Start Date	Stop Date	Funding Allowable	Base Rate	Cost	Requirements
OMPA	977481	GRDA	OKGE	25	5/1/2007	5/1/2040			\$ 389,328	\$-	\$ 546,215	
									\$ 389,328	\$-	\$ 546,215	\$ 1,815,938

				Allocated E & C		Total Revenue
Reservation	Upgrade Name	COD	EOC	Cost	Total E & C Cost	Requirements
977481	Mooreland - Potter 345 kV SPS	2/1/2011	2/1/2011	\$ 120,423	\$ 61,850,000	\$ 430,196
	Mooreland - Potter 345 kV WFEC	2/1/2011		\$ 4,868	\$ 2,500,000	
	Mooreland 345/138 kV Transformer	2/1/2011	2/1/2011	\$ 86,119	\$ 5,000,000	\$ 246,235
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	2/1/2011		\$ 10,107	\$ 8,727,217	
	Spearville - Mooreland 345 kV SUNC	2/1/2011	2/1/2011	\$ 193,570	\$ 31,000,000	\$ 750,662
	Spearville - Mooreland 345 kV WFEC	2/1/2011	2/1/2011	\$ 131,128	\$ 21,000,000	\$ 374,927
			Total	\$ 546,215	\$ 130,077,217	\$ 1,815,938

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	FOC
977481	GRAY TAP - PENSACOLA 69KV CKT 1	6/1/2006	12/1/2008
	PENNSYLVANIA - WESTMOORE 138KV CKT 1	10/1/2007	6/1/2008
	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3	6/1/2013	6/1/2013

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

Reservation	Upgrade Name	COD	EOC
977481	412SUB - KANSAS TAP 161KV CKT 1	6/1/2015	6/1/2015
	412SUB - KERR 161KV CKT 1	6/1/2015	6/1/2015
	SUB 110 - ORONOGO JCT SUB 167 - RIVERTON 161KV CKT 1	6/1/2011	6/1/2011

#### Customer Study Number

UCU AG1-2006-008D

				Requested	Requested Start	Requested	Deferred	Deferred	Potential Base Plan	Point-to-Point	Allocate E & C	Total Revenue
Customer	Reservation	POR	POD	Amount	Date	Stop Date	Start Date	Stop Date	Funding Allowable	Base Rate	Cost	Requirements
UCU	984053	WR	MPS	178	1/1/2010	1/1/2030	12/1/2010	12/1/2030	\$	\$ 68,821,920	\$ 7,775,739	
									\$ -	\$ 68,821,920	\$ 7,775,739	\$ 30,207,737

				Allocated E & C		Total Revenue
Reservation	Upgrade Name	COD	EOC	Cost	Total E & C Cost	Requirements
984053	166TH STREET - JAGGARD JUNCTION 115KV CKT 1	6/1/2009	6/1/2009	\$ 308,175	\$ 1,000,000	\$ 1,278,426
	166TH STREET - JARBALO JUNCTION SWITCHING STATION 115KV CKT 1	6/1/2009	6/1/2009	\$ 585,532	\$ 1,900,000	\$-
	JAGGARD JUNCTION - PENTAGON 115KV CKT 1	6/1/2009	6/1/2009	\$ 462,262	\$ 1,500,000	
	KELLY - KING HILL N.M. COOP 115KV CKT 1	10/1/2006	6/1/2009	\$ 1,964,644	\$ 2,900,000	\$ 8,961,945
	LAWRENCE HILL (LAWHL29X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2016	6/1/2016	\$ 1,320,809	\$ 2,250,000	\$ 3,655,575
	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2006	10/1/2008	\$ 1,625,338	\$ 4,244,500	\$ 7,521,643
	STULL SWITCHING STATION - TECUMSEH HILL 115KV CKT 1	6/1/2007	6/1/2008	\$ 1,508,979	\$ 2,750,000	\$ 6,872,512
-			Total	\$ 7,775,739	\$ 16,544,500	\$ 30,207,738

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
984053	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1	12/1/2007	3/1/2008
	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	10/1/2006	6/1/2009
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	10/1/2006	6/1/2009
	EAST 20MVAR CAPACITOR	10/1/2007	12/1/2007
	JEC - SWISSVALE 345KV	12/1/2007	12/1/2010
	MOCKINGBIRD HILL SWITCHING STATION - STULL SWITCHING STATION 115KV CKT 1	10/1/2007	6/1/2008
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2016	6/1/2016

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

Reservation	Upgrade Name	COD	EOC	
984053	IATAN - ST JOE 345KV CKT 1	12/1/2011	4/1/2007	
	IATAN5 161 - PLATTE CITY 161KV CKT 1	6/1/2010	6/1/2010	

#### Customer Study Number

UCU AG1-2006-063D

				Requested	Requested Start	Requested	Deferred	Deferred	Potential Base Plan	Point-to-Point	Allocate E & C	Total Revenue
Customer	Reservation	POR	POD	Amount	Date	Stop Date	Start Date	Stop Date	Funding Allowable	Base Rate	Cost	Requirements
UCU	1034276	WR	MPS	50	6/1/2007	6/1/2027	4/1/2011	4/1/2031	\$ 900,000	\$ 19,332,000	\$ 4,610,456	1
									\$ 900,000	\$ 19,332,000	\$ 4,610,456	\$ 16,605,978

				Allocated E & C		Total Revenue
Reservation	Upgrade Name	COD	EOC	Cost	Total E & C Cost	Requirements
1034276	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2006	2/1/2008	\$ 247,324	\$ 1,300,000	\$ 1,177,841
	BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1	6/1/2006	2/1/2008	\$ 1,079,254	\$ 1,605,500	\$ 5,036,977
	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1	6/1/2006			\$ 50,000	\$-
	KELLY - KING HILL N.M. COOP 115KV CKT 1	10/1/2006				\$ 485,507
	LAWRENCE HILL (LAWHL29X) 230/115/13.8KV TRANSFORMER CKT 2	6/1/2016	6/1/2016	\$ 362,164	\$ 2,250,000	\$ 1,026,753
	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	6/1/2006	10/1/2008	\$ 467,500	\$ 4,244,500	\$ 2,226,394
	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	6/1/2011	6/1/2011			
	Mooreland - Potter 345 kV SPS	2/1/2011	2/1/2011	\$ 277,929	\$ 61,850,000	\$ 958,352
	Mooreland - Potter 345 kV WFEC	2/1/2011	2/1/2011			
	Mooreland 345/138 kV Transformer	2/1/2011	2/1/2011	\$ 187,157	\$ 5,000,000	\$ 504,374
	Potter - Roosevelt 345KV	2/1/2011	2/1/2011	\$ 182,505	\$ 38,504,390	\$ 176,440
	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	2/1/2011	2/1/2011	\$ 51,169	\$ 8,727,217	\$ 1,790
	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	2/1/2011	2/1/2011		\$ 3,200,000	\$-
	Spearville - Mooreland 345 kV SUNC	2/1/2011	2/1/2011		\$ 31,000,000	\$ 2,121,174
	Spearville - Mooreland 345 kV WFEC	2/1/2011	2/1/2011	\$ 392,260	\$ 21,000,000	\$ 1,057,111
	STULL SWITCHING STATION - TECUMSEH HILL 115KV CKT 1	6/1/2007	6/1/2008	\$ 386,470	\$ 2,750,000	\$ 1,802,990
			Total	\$ 4,610,456	\$ 190,081,607	\$ 16,605,978

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
1034276	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1	12/1/2007	3/1/2008
	ANACONDA - FREEMAN 69KV CKT 1	6/1/2007	
	ANACONDA - HARRISONVILLE WEST 69KV CKT 1	6/1/2008	6/1/2008
	Carter JCT Capcitor	6/1/2011	
	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	10/1/2006	6/1/2009
	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	10/1/2006	6/1/2009
	EAST 20MVAR CAPACITOR	10/1/2007	12/1/2007
	JEC - SWISSVALE 345KV	12/1/2007	12/1/2010
	MOCKINGBIRD HILL SWITCHING STATION - STULL SWITCHING STATION 115KV CKT 1	10/1/2007	
	STRANGER CREEK TRANSFORMER CKT 2	6/1/2016	6/1/2016

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

Reservation	Upgrade Name	COD	EOC
1034276	IATAN - ST JOE 345KV CKT 1	12/1/2011	4/1/2007
	IATAN5 161 - PLATTE CITY 161KV CKT 1	6/1/2010	6/1/2010
	PHILLIPSBURG - RHOADES 115KV	6/1/2007	6/1/2008

#### Customer Study Number

AG1-2006-037D WRGS

				Requested	Requested Start	Requested	Deferred	Deferred	Potential Base Plan	Point-to-Point	Allocate E & C	Total Revenue
Customer	Reservation	POR	POD	Amount	Date		Start Date	Stop Date	Funding Allowable	Base Rate	Cost	Requirements
WRGS	1032955	AECI	KCPL	15	6/1/2006	6/1/2007			\$-	\$ 158,400	\$ 53,881	
									\$ -	\$ 158,400	\$ 53,881	\$ 82 142

				Allocated E & C		Total Revenue
Reservation	Upgrade Name	COD	EOC	Cost	Total E & C Cost	Requirements
1032955	BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1	6/1/2006	2/1/2008	\$ 53,881	\$ 1,605,500	\$ 82,142
			Total	\$ 53,881	\$ 1,605,500	\$ 82,142

#### Customer Study Number AG1-2006-029D MACS

WRGS	AG1-2006-04

				Requested	Requested Start	Requested	Deferred	Deferred	Potential Base Plan	Point-to-Point	Allocate E & C	Total Revenue
Customer	Reservation	POR	POD	Amount	Date	Stop Date	Start Date	Stop Date	Funding Allowable	Base Rate	Cost	Requirements
WRGS	1031553	KCPL	AECI	15	6/1/2006	6/1/2007			\$ -	\$ 153,000		
									\$ -	\$ 153,000	\$-	\$-

				Allocated E & C		Total Revenue
	Upgrade Name	COD	EOC	Cost	Total E & C Cost	Requirements
1031553	None			\$-	\$-	\$-
			Total	\$-	\$-	\$-

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

Reservation	opgrade Name	000	EUC	1
1031553	SOUTH WAVERLY 161/69KV TRANSFORMER CKT 1 REDISPATCH	6/1/2006	10/1/2006	

					Earliest Data	Estimated Date of	Estimated
Transmission			Minimum ATC per	Season of Minimum	Upgrade Required	Upgrade Completion	Engineering &
Owner	Upgrade	Solution	Upgrade (MW)	Allocated ATC	(COD)		Construction Cost
AEPW	36TH & LEWIS - 52ND & DELAWARE TAP 138KV CKT 1	Reset Relays @ 36th & Lewis	182	16SP	6/1/2016	6/1/2016	
		Replace six (6) 138 kV switches, five at Bann & one at Alumax Tap.					+,
		Rebuild 0.67 miles of 1024 ACAR with 2156 ACSR. Replace wavetrap &					
AEPW	ALUMAX TAP - BANN 138KV CKT 1	jumpers @ Bann. Replace breaker 3300 @ Bann.	0	11SP	6/1/2008	6/1/2008	\$ 1.000.000
AEPW	ELDORADO - LAKE PAULINE 69KV CKT 1	Reset CTs @ Lake Pauline	11	16SP	6/1/2016	6/1/2016	
AEPW	HOBART JUNCTION - TAMARAC TAP 138KV CKT 1	Replace Hobart Jct. Wavetrap	0	166F	6/1/2014	6/1/2014	
AEPW	WEATHERFORD SOUTHEAST (WTH SE) 138/69/13.8KV TRANSFORMER CKT 1	Install new 90 MVA Auto	0	11SP	6/1/2010	6/1/2010	
		Reconductor 4 miles with 1192.5 ACSS, 558 normal/emergency rating	°	1101	0/1/2010	0/1/2010	φ 2,000,000
KACP	COLLEGE - CRAIG 161KV CKT 1	and upgrade breaker.	261	16SP	6/1/2016	6/1/2016	\$ 700,000
MIPU	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV CKT 1	Conductor	201	07SP	6/1/2010	2/1/2008	
MIPU	BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1	Conductor	0	08SP	6/1/2006	2/1/2008	
MIPU	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1	Wave Trap	0	08SP	6/1/2006	10/1/2008	
MIPU	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	Upgrade to bundled 795 26/7 ACSR conductor	0	005P 07SP	6/1/2006	10/1/2007	
MIPU	MARTIN CITY - TURNER ROAD SUBSTATION 161KV CKT 1	OGE would rebuild .18 miles of 267AS33 with 795AS33. This would	0	075P	6/1/2006	10/1/2008	\$ 4,244,500
OVOE		raise OGE's summer and winter Rate B to 287MVA. The limit will still be		0054	0///00000	414/0007	
OKGE	FPL SWITCH - MOORELAND 138KV CKT 1 OKGE	at WFEC's Mooreland at 390A & 600A.	54	06FA	6/1/2006	4/1/2007	\$ 120,000
OKGE	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1	Replace bus tie with 100MVA transformer	85	08SP	6/1/2006	6/1/2008	
SPS	CURRY COUNTY INTERCHANGE - ROOSEVELT COUNTY INTERCHANGE 115KV CKT 2	Upgrade Roosevelt to Curry 115 kV circuit w/795 ACSR	0	16SP	2/1/2011	2/1/2011	\$ 1,515,113
		New Delivery Point tapping 69 kV Tie Line from AEPW Shamrock to SPS					
SPS	Greenbelt EC Midway Interconnection	Magic City	0	11SP	6/1/2006	10/1/2006	\$ 70,000
		Install 2 - 50 MVar capacitor banks on the 230 kV bus at Lea County					
SPS	LEA COUNTY INTERCHANGE 230KV CAPACITORS	Interchange	0	11WP	2/1/2011	2/1/2011	\$ 1,381,023
		Install 8 MVAR STATCOM with 5 MVAR Dual Capacitors at Greenbelt EC					
SPS	MIDWAY 69 KV STATCOM AND CAPACITOR	Midway 69 KV, 69 KV Bus to be constructed by Greenbelt EC	1	07G	6/1/2006	10/1/2007	\$ 3,000,000
SPS	Mooreland - Potter 345 kV SPS	New 345 kV line from Potter to Mooreland on wooden h-frame structures.	0	16SP	2/1/2011	2/1/2011	\$ 61,850,000
		New 345 kV circuit from Potter - Roosevelt 2-795 ACSR & 345/230 kV					
SPS	Potter - Roosevelt 345KV	560 MVA transformer	0	16SP	2/1/2011	2/1/2011	\$ 38,504,390
SPS	POTTER COUNTY INTERCHANGE (POTTR CO) 345/230/13.2KV TRANSFORMER CKT 1	New 345/230 kV 560 MVA transformer	0	16SP	2/1/2011	2/1/2011	\$ 8,727,217
SPS	ROOSEVELT COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	Add 2nd transformer 230/115 kV 252 MVA	0	16SP	2/1/2011	2/1/2011	\$ 3,200,000
SUNC	Spearville - Mooreland 345 kV SUNC	New 345 kV line from Spearville to Kansas/Oklahoma Stateline	0	16SP	2/1/2011	2/1/2011	\$ 31,000,000
WEPL	CLAY CENTER - GREENLEAF 115KV CKT 1	Building a new 115 kV tie with Westar from Greenleaf to Clay Center	0	07SH	6/1/2007	10/1/2007	\$ 7,520,000
WEPL	GREENSBURG - JUDSON LARGE 115KV CKT 1	Replace relaying	0	08WP	6/1/2006	2/1/2007	\$ 153,114
WEPL	MEDICINE LODGE - SUN CITY 115KV CKT 1	Upgrade CTs and Wave Trap Limits	48	08SP	6/1/2007	10/1/2007	
WEPL	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	Upgrade to 100MVA transformer	405	11SP	6/1/2011	6/1/2011	\$ 3,200,000
WEPL	WASHINGTON 1800 KVAR CAPACITOR	Install 1800 kVar outside the city of Washington sub	0	06SP	6/1/2006	6/1/2007	
WERE	166TH STREET - JAGGARD JUNCTION 115KV CKT 1	Tear down and rebuild 3.66 mile 166-Jaggard 115 kV line.	0	11WP	6/1/2009	6/1/2009	\$ 1.000.000
WERE	166TH STREET - JARBALO JUNCTION SWITCHING STATION 115KV CKT 1	Tear down and rebuild 7.22 mile Jarbalo-166 115 kV line.	0	11SP	6/1/2009	6/1/2009	\$ 1,900,000
WERE	CHAPMAN - CLAY CENTER JUNCTION 115KV CKT 1	Reset terminal equipment	0	07SH	6/1/2007	6/1/2007	
WERE	JAGGARD JUNCTION - PENTAGON 115KV CKT 1	Tear down and rebuild Jaggard - Pentagon 115 kV line.	0	11SP	6/1/2009	6/1/2009	\$ 1,500,000
		Teal down and rebuild baggard - Tentagon 115 kV line.	0	1101	0/1/2003	0/1/2003	φ 1,500,000
WERE	KELLY - KING HILL N.M. COOP 115KV CKT 1	Reconductor 9.61 mile line with 1192.5 kcmil ACSR and replace CTs.	0	07WP	10/1/2006	6/1/2009	\$ 2.900.000
WERE	LAWRENCE HILL (LAWHL29X) 230/115/13.8KV TRANSFORMER CKT 2	Install second Lawrence Hill 230-115 kV transformer.	0	16SP	6/1/2016	6/1/2009	
WERE	LAWRENCE HILL (LAWHL29A) 230/115/13.8KV TRANSFORMER CKT2	Teardown/rebuild Jarbalo-NW Leavenworth 115 kV line with double	0	105P	6/1/2016	6/1/2016	\$ 2,250,000
			0	4400	0/4/0000	0/4/0000	¢ 0.400.000
WERE	STRANGER CREEK - NW LEAVENWORTH 115KV	circuit tap to Stranger Creek	0	11SP	6/1/2009	6/1/2009	\$ 2,400,000
WERE	STULL SWITCHING STATION - TECUMSEH HILL 115KV CKT 1	Tear down and rebuild 9.84 mile Tecumseh Hill-Stull Tap 115 kV line.	0	08SP	6/1/2007	6/1/2008	
	WICHITA - RENO CO 345KV	Build 345kV from Wichita to Reno Co	0	06SH	6/1/2006	4/1/2011	
WFEC	ALTUS JCT TAP - RUSSELL 138KV CKT 1 WEEC	Reconductor 12.5 miles from 336 to 795 ACSR	238	16SP	6/1/2010	6/1/2010	
WFEC	FPL SWITCH - MOORELAND 138KV CKT 1 WFEC	Upgrade terminal equipment FPL Sw & Mooreland	54	06FA	6/1/2006	2/1/2008	
WFEC	FT SUPPLY - WOODWARD 69KV CKT 1	Reconductor 18.0 miles from 336 to 795 ACSR	77	07AP	4/1/2007	2/1/2008	
WFEC	FT SUPPLY 138/69KV TRANSFORMER CKT 1	Install 2nd 70 MVA auto at Ft Supply	58	07AP	12/1/2006	6/1/2008	
WFEC	GYPSUM - RUSSELL 69KV CKT 1	Reconductor 1/0 to 336 ACSR - 3.1 miles	0	16SP	6/1/2012	6/1/2012	
WFEC	HAMON BUTLER - MOREWOOD 69KV CKT 1	Reconductor 1/0 to 336 ACSR - 15.0 miles	0	16SP	6/1/2006	2/1/2008	
WFEC	Mooreland - Potter 345 kV WFEC	345 kV line Terminal	0	16SP	2/1/2011	2/1/2011	
WFEC WFEC	Mooreland 345/138 kV Transformer Spearville - Mooreland 345 kV WFEC	New Mooreland 345/138 kV Transformer New 345 kV line from Kansas/Oklahoma Stateline to Mooreland	0	16SP 16SP	2/1/2011 2/1/2011	2/1/2011 2/1/2011	

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

						Estimated Date of
Transmission			Minimum ATC per	Season of Minimum	Upgrade Required	Upgrade Completion
		Solution	Upgrade (MW)	Allocated ATC	(COD)	(EOC)
AEPW	AEPW PLANNED UPGRADE FOR NW ARKANSAS	NW Project phase II scheduled to be in-service 06/2009	0	06SP	6/1/2006	6/1/2009
		New 345/161kV transformer and 345kV line tapping LaCyne - West				
KACP	LACYGNE-PAOLA-WEST GARDER 345KV	Gardner 345kV	79	07SH	6/1/2007	6/1/2008
MIDW	PHILLIPSBURG - RHOADES 115KV	New 115 kV Line	82	07SP	6/1/2007	6/1/2008
MIDW	St John CAPACITOR	MIDW St. John Capacitors (2008 Summer)	221	08SP	6/1/2008	6/1/2008
MIPU	IATAN - ST JOE 345KV CKT 1	Circuit Breaker	400	11WP	12/1/2011	4/1/2007
	IATAN5 161 - PLATTE CITY 161KV CKT 1	Terminal Equipment	0	11WP	6/1/2010	6/1/2010
OKGE	IODINE - WOODWARD 138kV CKT 1	New line will be in service by 12/1/2006	37	06FA	6/1/2006	12/1/2006
		Rebuild 5.73 mile Weaver-Rose Hill Junction as a 138 kV line but operate				
WERE	ROSE HILL JUNCTION - WEAVER 69KV CKT 1	at 69 kV.	45	06SH	6/1/2006	6/1/2007

Eastinet Date

Estimated Data of

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

					Earliest Data	Estimated Date of
Transmission			Minimum ATC per	Season of Minimum		Upgrade Completion
Owner	Upgrade	Solution	Upgrade (MW)	Allocated ATC	(COD)	(EOC)
		Debuild 4.00 miles of 4004 AOAD with 0450 AOOD, Declare wavefund A				
AEPW		Rebuild 1.68 miles of 1024 ACAR with 2156 ACSR, Replace wavetrap & jumpers with 2156 ACSR. Replace Switch 2285 @ Alumax Tap.	0	0700	0/4/0007	0/4/0000
AEPW	ALUMAX TAP - NORTHWEST TEXARKANA 138KV CKT 1 BANN - NW TEXARKANA-BANN T 138KV CKT 1	Reset Relays	0	07SP 16SP		6/1/200 6/1/201
AEPW	CLINTON CITY - THOMAS TAP 69KV CKT 1	Rebuild 13.68 miles of 4/0 ACSR with 795 ACSR	0	16SP 16SP		6/1/201
	ELK CITY - ELK CITY 69KV CKT 1	Replace CTS & jumpers	0	16SP 07WP		12/1/200
	LINWOOD - MCWILLIE STREET 138KV CKT 1	Rebuild 2.09 miles of 666 ACSR with 1272 ACSR	0	078P		6/1/200
AEPW	SNYDER - SNYDER INTERCONNECTION	New Tie line between AEPW's Snyder and WFEC's Snyder	0	16SP		
EMDE	JAMESVILLE - SUB 415 - BLACKHAWK JCT. 69KV CKT 1	Replace Jumpers to breaker #6950 at Blackhawk Jct.	0	16SP 16SP		2/1/201 6/1/201
EMDE	SUB 110 - ORONOGO JCT. (ORONOGO) 161/69/12.5KV TRANSFORMER CKT 1	Installi new 161/12 kV 22.4 transmer and take load off 69 kV system	0	16SP		6/1/201
EIVIDE	SUB 110 - ORONOGO JCI. (ORONOGO) 161/09/12.5KV TRANSFORMER CKT 1	Replace 75 MVA Auto-xfmr at Oronogo Jct with 150 MVA Auto-xfmr and	U	103P	6/1/2015	0/1/201
		install 69 kV bank breaker. Auto-xfmr will have an impedance similar to				
EMDE	SUB 110 - ORONOGO JCT. (ORONOGO) 161/69/12.5KV TRANSFORMER CKT 1	Aurora 59468, 59537, 59704.	0	16SP	C/1/2015	6/1/201
EMDE	SUB 124 - AURORA H.T SUB 152 - MONETT H.T. 69KV CKT 1	Change CT Ratio on breaker #6936 at Aurora #124	0	105P		6/1/201
	SOB 124 - AURORATILI SOB 152 - MONETT H.I. ORV CRT I	Change CT Ratio on Dieaker #0950 at Autora #124	0	113F	0/1/2010	0/1/201
EMDE	SUB 145 - JOPLIN WEST 7TH - SUB 64 - JOPLIN 10TH ST. 69KV CKT 1	Replace 600 amp disconnects and leads to breaker #6965 at Joplin #64	0	16SP	6/1/2012	6/1/201
EIVIDE		Replace 75 MVA Auto-xfmr at Joplin SW with 150 MVA Auto-xfmr and	U	103F	0/1/2012	0/1/201
		install 69 kV bank breaker. Auto-xfmr will have an impedance similar to				
EMDE	SUB 389 - JOPLIN SOUTHWEST (JOPLINSW) 161/69/12.5KV TRANSFORMER CKT 1	Aurora 59468, 59537, 59704.	0	16SP	6/1/2015	6/1/201
	309 309 - JOPEIN SOUTHWEST (JOPEINSW) 101/09/12:3KV TRAINSPORMER CRT I	Rebuild of Pensacola - Jayline (not owned by GRDA have tried to	0	103F	0/1/2013	0/1/201
GRDA	GRAY TAP - PENSACOLA 69KV CKT 1	convince owner)	0	06SP	6/1/2006	12/1/200
KACP	AVONDALE - GLADSTONE 161KV CKT 1	Replace 800 amp wavetrap at Gladstone with 1200 amp wavetrap	0	16SP		6/1/201
KACP	SOUTH WAVERLY 161/69KV TRANSFORMER CKT 1 REDISPATCH	Replace ood amp wavelrap at Glausione with 1200 amp wavelrap	0	06SH		10/1/201
MIPU	ANACONDA - FREEMAN 69KV CKT 1	Conductor	0	08SP		6/1/200
MIPU	ANACONDA - HARRISONVILLE WEST 69KV CKT 1	Conductor	0	08SP		6/1/200
MIPU	EAST 20MVAR CAPACITOR	Conductor	44	07FA		12/1/200
VIII O		Reconductor 2.2 miles to Drake ACCC/TW and change terminal		UTA	10/1/2007	12/1/200
OKGE	COLONY - FT SMITH 161KV CKT 1	equipment at Ft. Smith & Colony to 2000A.	0	11SP	6/1/2011	6/1/201
ONOL		Replace the disconnect switches for breaker 108 at Pennsylvania	0	113F	6/1/2008 10/1/2007 6/1/2011 10/1/2007	0/1/201
		Substation. Replace the 1200A trap. Increase CTR. Relay replacement				
OKGE	PENNSYLVANIA - WESTMOORE 138KV CKT 1	may be required.	0	07FA	10/1/2007	6/1/200
ONOL		Tap Elk City - Grapevine. New line from Stateline Tap to Graves Co. New	0	UTA	10/1/2007	0/1/200
SPS	Bowers Project	115/69xfmr at Graves Co.	0	11SP	6/1/2010	6/1/201
SPS	COX INTERCHANGE - LH-COX3 115KV CKT 1	Rebuild Cox-LHCox 115 kV circuit w/397 ACSR	0	16SP		6/1/201
SPS	HALE CO INTERCHANGE - LH-COX3 115KV CKT 1	Rebuild Hale - LHCox 115 kV circuit w/397 ACSR	0	16SP		6/1/201
3F3	TALE CO INTERCHANGE - EPICOAS TISKY CRT I	Add 2nd 230 kV circuit and 2nd 230/115 kV transformer at Moore. 230 kV	0	103F	0/1/2010	0/1/201
SPS	MOORE COUNTY INTERCHANGE	construction using 795 ACSR.	0	11WP	12/1/2011	12/1/201
SPS	NICHOLS STATION 230/115KV TRANSFORMER CKT 1	Upgrade 230/115 kV Transformer with 252 MVA	0	16SP		12/1/201
SPS	NICHOLS STATION 230/115KV TRANSFORMER CKT 1	Upgrade 230/115 kV Transformer with 252 MVA	0	11WP		6/1/201
51.5		Rebuild 0.9 miles of 4/0 ACSR with 795 ACSR. Replace Weatherford	0	1 1 1 1 1	0/1/2013	0/1/201
SPS	THOMAS TAP - WEATHERFORD 69KV CKT 1	wavetrap.	0	11SP	6/1/2011	6/1/201
SPS	YOAKUM COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	Upgrade Transformer 230/115 kV 252 MVA	0	11SP		6/1/201
SWPA	BULL SHOALS - BULL SHOALS 161KV CKT 1	Replace bus at Bull Shoals.	0	11SP		6/1/201
SWIA	BOLL SHOALS - BOLL SHOALS TOTAV CKT T	Replace bus at buil Shoals.	0	113F	0/1/2009	0/1/200
SWPA	JONES - JONESBORO 161KV CKT 1	Change the ratio on the metering CTs to 1200/5 and adjust the meters	0	11SP	6/1/2000	6/1/200
SWI A		Change the ratio on the metering C13 to 1200/3 and adjust the meters	0	1101	m Upgrade Required L (COD) (1) 6/1/2007 6/1/2013 6/1/2016 12/1/2016 12/1/2007 2/1/2011 6/1/2013 6/1/2015 6/1/2015 6/1/2015 6/1/2015 6/1/2015 6/1/2015 6/1/2015 6/1/2015 6/1/2006 6/1/2006 6/1/2007 6/1/2008 10/1/2007 6/1/2001	0/1/200/
WERE	95TH & WAVERLY - CAPTAIN JUNCTION 115KV CKT 1	Rebuild 7.61 miles from 95th & Waverly-Captain Junction 115 kV line.	0	16SP	12/1/2007	3/1/200
WERE	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1	Rebuild 16.66 mile Circleville-Hoyt HTI Junction 115 kV line.	0	07WP		6/1/200
WERE	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	Rebuild 15.15 mile line with 1192.5 kcmil ACSR and replace CTs	0	06FA		6/1/200
WERE	COUNTY LINE - HOOK JCT 115KV CKT 1	Rebuild 15.15 mile line with 1192.5 kcmil ACSR and replace CTS	0	11SP		6/1/200
NERE	FARMERS CONSUMER CO-OP - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT 1	Rebuild 2.52 mile fine with 1192.5 kGnil AGSK Rebuild 1.53-mile Co-op-Wakarusa 115 kV line.	0	11SP		6/1/201
WERE	HOOK JCT - TECUMSEH ENERGY CENTER 115KV CKT 1	Replace wave traps on TEC-County Line 115 kV line.	0	11SP		6/1/201
VERE	JEC - SWISSVALE 345KV	Construct JEC-Swissvale 345 kV line.	0	07SP		12/1/201
WERE	MOCKINGBIRD HILL SWITCHING STATION - STULL SWITCHING STATION 115KV CKT 1	Tear down and rebuild 6.40 mile Mockingbird-Stull Tap 115 kV line.	0	075A		6/1/200
WERE	ROSE HILL (ROSEHL1X) 345/138/13.8KV TRANSFORMER CKT 3	Add third 345-138 kV transformer at Rose Hill	0	16SP		6/1/201
VERE	SOUTHWEST LAWRENCE - WAKARUSA JUNCTION SWITCHING STATION 115KV CKT 1	Rebuild 4.09 mile SW Lawrence-Wakarusa 115 kV line	0	11SP		6/1/200
VERE	STRANGER CREEK TRANSFORMER CKT 2	Install 2nd Xfmr	595	16SP		6/1/201
VFEC	Carter JCT Capcitor	Increase 6 to 24 MVAR at Carter JCT	8	16SP		6/1/201
WFEC	CASHION CAP BANK	Install 12MVAR Cap Bank at Cashion	o 0	06WP		12/1/200

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

			Earliest Data	Estimated Date of
Transmission			Upgrade Required	Upgrade Completion
Owner	Upgrade	Solution	(COD)	(EOC)
AEPW	CACHE - SNYDER 138KV CKT 1	Replace Snyder wavetrap	6/1/2008	6/1/2008
		Reconductor 1.9 miles with ACCC. Replace wave trap jumpers at		
AEPW	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 AEPW	Riverside.	6/1/2009	6/1/2009
EMDE	SUB 110 - ORONOGO JCT SUB 167 - RIVERTON 161KV CKT 1	Reconductor Oronogo 59467 to Riverton 59469 with Bundled 556 ACSR	6/1/2011	
EMDE	SUB 110 - ORONOGO JCT. (ORONOGO) 161/69/12.5KV TRANSFORMER CKT 1	Install new 161/12 kV 22.4 transmer and take load off 69 kV system	6/1/2011	6/1/2011
		Replace 75 MVA Auto-xfmr at Oronogo Jct with 150 MVA Auto-xfmr and		
		install 69 kV bank breaker. Auto-xfmr will have an impedance similar to		
EMDE	SUB 110 - ORONOGO JCT. (ORONOGO) 161/69/12.5KV TRANSFORMER CKT 1	Aurora 59468, 59537, 59704.	6/1/2011	6/1/2011
GRRD	412SUB - KANSAS TAP 161KV CKT 1	Reconductor 9.7 miles with 1590MCM ACSR.	6/1/2015	6/1/2015
GRRD	412SUB - KERR 161KV CKT 1	Reconductor 12.5 miles with 1590MCM ACSR	6/1/2015	6/1/2015
OKGE	BEELINE - EXPLORER GLENPOOL 138KV CKT 1	Reconductor .92miles of line with Drake ACCC/TW.	6/1/2009	6/1/2009
OKGE	EXPLORER GLENPOOL - RIVERSIDE STATION 138KV CKT 1 OKGE	Reconductor 1.82 miles line with Drake ACCC/TW.	6/1/2009	6/1/2009

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Transmission			Minimum ATC per	Season of Minimum Allocated	Earliest Date Upgrade	Estimated Date of Upgrade	Estimated Engineering &
Owner	Upgrade	Solution	Upgrade (MW)	ATC	Required (COD)	Completion (EOC)	Construction Cost
	None						

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Upgrade:	ALUMAX TAP - NORTHWEST TEXARKANA 138KV CKT	1
Limiting Facility:	ALUMAX TAP - NORTHWEST TEXARKANA 138KV CKT	1
Direction:	To->From	
Line Outage:	SPP-AEPW-29	
Flowgate:	53245533001SPPAEPW291107SP	
Date Redispatch Needed:	6/1/07 - 10/1/07	
Season Flowgate Identified:	2007 Summer Peak	
		Aggregate Relief
Reservation	Relief Amount	Amount
1023236	2.9	2.9
		Maximum

1023236	2.9	2.9		Sink Control	1	Mandana	r	1	De dia setat
Source Control Area	Source	Maximum Increment(MW)	GSF	Area	Sink	Maximum Decrement(MW)	GSF	Factor	Redispatch Amount (MW)
AEPW	LONESTAR POWER PLANT 69KV	50			COMANCHE 138KV	160		-0.1	
AEPW	LONESTAR POWER PLANT 69KV	50			COMANCHE 69KV	63		-0.09995	29
AEPW	LONESTAR POWER PLANT 69KV	50			SOUTHWESTERN STATION 138KV	327		-0.09968	29
AEPW	'LONESTAR POWER PLANT 69KV'	50			WELSH 345KV	990		-0.09986	
AEPW	LONESTAR POWER PLANT 69KV	50			COGENTRIX 345KV	665		-0.09638	
AEPW	'LONESTAR POWER PLANT 69KV'	50			'NORTHEASTERN STATION 138KV'	405		-0.09563	30
AEPW	'LONESTAR POWER PLANT 69KV'	50			'NORTHEASTERN STATION 138KV'	95		-0.09563	30
AEPW	LONESTAR POWER PLANT 69KV	50			'NORTHEASTERN STATION 345KV'	645		-0.09563	30
AEPW	LONESTAR POWER PLANT 69KV	50			'RIVERSIDE STATION 138KV'	646		-0.09634	30
AEPW	'LONESTAR POWER PLANT 69KV'	50			'TULSA POWER STATION 138KV'	99		-0.09626	
AEPW	LONESTAR POWER PLANT 69KV	50			TULSA POWER STATION 138KV	147		-0.09626	
AEPW	LONESTAR POWER PLANT 69KV	50			WELEETKA 138KV	70		-0.09020	
AEPW	'LONESTAR POWER PLANT 69KV'	50			'FITZHUGH 161KV'	126		-0.09149	
AEPW	LONESTAR POWER PLANT 69KV	50			LEBROCK 345KV	365		-0.07874	
AEPW	LONESTAR POWER PLANT 69KV	50			'NARROWS 69KV'	22		-0.07924	37
AEPW	LONESTAR POWER PLANT 69KV	50			PIRKEY GENERATION 138KV	248		-0.07924	39
AEPW	LONESTAR POWER PLANT 69KV	50			EASTMAN 138KV	355		-0.07447	
AEPW	LONESTAR POWER PLANT 69KV	50			'KNOXLEE 138KV'	264.3811	-0.01561	-0.07196	40
		112.0037						-0.07194	
AEPW AEPW	WILKES 138KV' WILKES 138KV'	112.0037	-0.06076		'COMANCHE 138KV' 'COMANCHE 69KV'	160		-0.07319	40
AEPW		112.0037	-0.06076			327		-0.07314	40
	'WILKES 138KV'				'SOUTHWESTERN STATION 138KV'				
AEPW	WILKES 138KV	112.0037	-0.06076		WELSH 345KV	990		-0.07305	
AEPW	'LONESTAR POWER PLANT 69KV'	50	-0.08757		WILKES 345KV	311		-0.0702	
AEPW	'WILKES 138KV'	112.0037	-0.06076		WELEETKA 138KV	70		-0.07038	41
AEPW	'WILKES 138KV'	112.0037	-0.06076		'COGENTRIX 345KV'	665		-0.06957	42
AEPW	WILKES 138KV	112.0037	-0.06076		'NORTHEASTERN STATION 138KV'	405		-0.06882	
AEPW	'WILKES 138KV'	112.0037	-0.06076		'NORTHEASTERN STATION 138KV'	95		-0.06882	42
AEPW	'WILKES 138KV'	112.0037	-0.06076		'NORTHEASTERN STATION 345KV'	645		-0.06882	42
AEPW	'WILKES 138KV'	112.0037	-0.06076		'RIVERSIDE STATION 138KV'	646		-0.06953	42
AEPW	'WILKES 138KV'	112.0037	-0.06076		'TULSA POWER STATION 138KV'	99		-0.06945	
AEPW	'WILKES 138KV'	112.0037	-0.06076		'TULSA POWER STATION 138KV'	147		-0.06945	
AEPW	'WILKES 138KV'	112.0037	-0.06076		'FITZHUGH 161KV'	126		-0.06468	45
AEPW	WILKES 138KV	112.0037	-0.06076		'LEBROCK 345KV'	365		-0.05193	56
AEPW	'WILKES 138KV'	112.0037	-0.06076		'NARROWS 69KV'	22		-0.05243	56
AEPW	'WILKES 138KV'	112.0037	-0.06076		'PIRKEY GENERATION 138KV'	248		-0.04766	
AEPW	'WILKES 138KV'	112.0037	-0.06076		'EASTMAN 138KV'	355		-0.04515	
AEPW	'WILKES 138KV'	112.0037	-0.06076		'KNOXLEE 138KV'	264.3811		-0.04513	65
AEPW	'WILKES 138KV'	112.0037	-0.06076		'WILKES 345KV'	311		-0.04339	
AEPW	'LIEBERMAN 138KV'	137	-0.0265		'COMANCHE 138KV'	160		-0.03893	75
AEPW	'LIEBERMAN 138KV'	137	-0.0265		'SOUTHWESTERN STATION 138KV'	327		-0.03861	75
AEPW	'LIEBERMAN 138KV'	137	-0.0265		WELSH 345KV	990			
AEPW	'LIEBERMAN 138KV'	137	-0.0265		WELEETKA 138KV	70		-0.03612	81
AEPW	'LIEBERMAN 138KV'	137	-0.0265		'COGENTRIX 345KV'	665		-0.03531	82
AEPW	'LIEBERMAN 138KV'	137	-0.0265		'RIVERSIDE STATION 138KV'	646		-0.03527	83
AEPW	'LIEBERMAN 138KV'	137	-0.0265		TULSA POWER STATION 138KV	99		-0.03519	
AEPW	'LIEBERMAN 138KV'	137	-0.0265		'TULSA POWER STATION 138KV'	147		-0.03519	83
AEPW	'ARSENAL HILL 69KV'	75			'COMANCHE 138KV'	160		-0.03484	84
AEPW	'ARSENAL HILL 69KV'	75			'SOUTHWESTERN STATION 138KV'	327		-0.03452	84
AEPW	'ARSENAL HILL 69KV'	75			'WELSH 345KV'	990		-0.0347	84
AEPW	'LIEBERMAN 138KV'	137	-0.0265		'NORTHEASTERN STATION 138KV'	405		-0.03456	
AEPW	'LIEBERMAN 138KV'	137			'NORTHEASTERN STATION 138KV'	95		-0.03456	
AEPW	'LIEBERMAN 138KV'	137	-0.0265		'NORTHEASTERN STATION 345KV'	645		-0.03456	
AEPW	'ARSENAL HILL 69KV'	75			'WELEETKA 138KV'	70		-0.03203	91
AEPW	'ARSENAL HILL 69KV'	75			'COGENTRIX 345KV'	665		-0.03122	
AEPW	'ARSENAL HILL 69KV'	75			'RIVERSIDE STATION 138KV'	646		-0.03118	
AEPW	'ARSENAL HILL 69KV'	75			'TULSA POWER STATION 138KV'	99		-0.0311	94
AEPW	'ARSENAL HILL 69KV'	75			'TULSA POWER STATION 138KV'	147		-0.0311	94
AEPW	'ARSENAL HILL 69KV'	75			'NORTHEASTERN STATION 138KV'	405		-0.03047	96
AEPW	'ARSENAL HILL 69KV'	75			'NORTHEASTERN STATION 138KV'	95		-0.03047	96
AEPW	'ARSENAL HILL 69KV'	75			'NORTHEASTERN STATION 345KV'	645		-0.03047	
AEPW	'LIEBERMAN 138KV'	137	-0.0265	AEPW	'FITZHUGH 161KV'	126	0.00392	-0.03042	96

 [AEPW]
 [1]LEBERMAN 138KV
 137
 -0.0265 [AEPW]
 [FIT2HUGH 161KV]

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

Upgrade: Limiting Facility: Direction: Line Outage:	BELTON SOUTH - TURNER ROAD SUBSTATION 161KV BELTON SOUTH - TURNER ROAD SUBSTATION 161KV From->To GRD OAK - PLEASANT HILL 345KV CKT 1		
Flowgate:	59340592591591985920011307SP		
Date Redispatch Needed:	6/1/07 - 10/1/07		
Season Flowgate Identified:	2007 Summer Peak		
		Aggregate Relief	
Reservation	Relief Amount	Amount	
1035259	4.3	4.3	
		Maximum	
Source Control Area	Source	Increment(MW)	GSF
MIPU	'ARIES 161KV'	595	-0.0
MIPU	'GREENWOOD 161KV'	255.8	-0.0
MIPU	'NEVADA 69KV'	20.3	-0.
MIPU	'RALPH GREEN 69KV'	73.7	0.0

		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
MIPU	'ARIES 161KV'	595	-0.04493	MIPU	'SOUTH HARPER 161KV'	313.0953	0.39813	-0.44306	10
MIPU	'GREENWOOD 161KV'	255.8	-0.04793	MIPU	'SOUTH HARPER 161KV'	313.0953	0.39813	-0.44606	10
MIPU	'NEVADA 69KV'	20.3	-0.0105	MIPU	'SOUTH HARPER 161KV'	313.0953	0.39813	-0.40863	11
MIPU	'RALPH GREEN 69KV'	73.7	0.07387	MIPU	'SOUTH HARPER 161KV'	313.0953	0.39813	-0.32426	13
KACP	'MONTROSE 161KV'	24.32433	-0.02065	KACP	'LACYGNE UNIT 345KV'	958	0.04183	-0.06248	69
KACP	'MARSHALL 161KV'	39.1	-0.0156	KACP	'LACYGNE UNIT 345KV'	958	0.04183	-0.05743	75
KACP	'PAOLA COMBUSTION TURBINES 161KV'	42.3728	0.00172	KACP	'LACYGNE UNIT 345KV'	958	0.04183	-0.04011	107
MIPU	'GREENWOOD 161KV'	255.8	-0.04793	MIPU	'LAKE ROAD 34KV'	92	-0.01569	-0.03224	133
Maximum Decrement and N	laximum Increment were determine from the Souce and Sink	Operating Points in the	he study mo	dels where limi	ting facility was identified.				
Easter - Source CSE Sink	CRE								

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

Upgrade:	BELTON SOUTH - TURNER ROAD SUBSTATION 161K								
Limiting Facility:	BELTON SOUTH - TURNER ROAD SUBSTATION 161K	CKI 1							
Direction:	From->To								
	GRD OAK - PLEASANT HILL 345KV CKT 1								
Flowgate:	59340592591591985920013306SP								
Date Redispatch Needed:	6/1/06 - 10/1/06								
Season Flowgate Identified:	2006 Summer Peak								
		Aggregate Relief							
Reservation	Relief Amount	Amount							
1035259	1.5	1.5							
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
MIPU	'ARIES 161KV'	595	-0.04525	MIPU	'SOUTH HARPER 161KV'	315	0.398	-0.44325	i 3
MIPU	'GREENWOOD 161KV'	229.7398	-0.04826	MIPU	'SOUTH HARPER 161KV'	315	0.398	-0.44626	3
MIPU	'NEVADA 69KV'	20.3	-0.01063	MIPU	'SOUTH HARPER 161KV'	315	0.398	-0.40863	4
MIPU	'RALPH GREEN 69KV'	73.7	0.0736	MIPU	'SOUTH HARPER 161KV'	315	0.398	-0.3244	
KACP	'MONTROSE 161KV'	25.64531	-0.02091	KACP	'LACYGNE UNIT 345KV'	962	0.04182	-0.06273	25 27
KACP	'MARSHALL 161KV'	54.1	-0.01626	KACP	'LACYGNE UNIT 345KV'	962	0.04182	-0.05808	3 27
KACP	'GARDNER 161KV'	11	-0.00649	KACP	'LACYGNE UNIT 345KV'	962	0.04182	-0.04831	
KACP	'BULL CREEK 161KV'	86.42065	-0.00396		'LACYGNE UNIT 345KV'	962	0.04182	-0.04578	34
KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	0.00167		'LACYGNE UNIT 345KV'	962	0.04182	-0.04015	
MIPU	'GREENWOOD 161KV'	229.7398	-0.04826	MIPU	'LAKE ROAD 161KV'	35	-0.01604	-0.03222	2 48
MIPU	'GREENWOOD 161KV'	229.7398			'LAKE ROAD 34KV'	92	-0.01604	-0.03222	2 48
Maximum Decrement and Max	imum Increment were determine from the Souce and Sink	Operating Points in the	ne study mo	dels where limi	ting facility was identified.				

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

Upgrade:	BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1								
Limiting Facility:	BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1								
Direction:	To->From								
Line Outage:	ORRICK - SIBLEY 161KV CKT 1								
Flowgate:	59205592351592445920211106SP								
Date Redispatch Needed:	6/1/06 - 10/1/06								
Season Flowgate Identified:	2006 Summer Peak								
ocason nowgate identified.		Aggregate Relief							
Reservation	Relief Amount	Amount							
1032955									
1032953		4.8							
1034307	4.1	4.0 Maximum		Sink Control		Maximum		1	Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
MIPU	'GREENWOOD 161KV'	255.8	-0.18518		SIBLEY 161KV	230.7252	0.19121		
MIPU	ARIES 161KV	255.8	-0.14198		SIBLET 101KV	230.7252	0.19121	-0.37639	
MIPU	GREENWOOD 161KV	255.8	-0.14198		SIBLEY 69KV	45.99999	0.19121		14
MIPU	ARIES 161KV	255.8	-0.14198		SIBLET 69KV	45.99999	0.16359		14
MIPU	RALPH GREEN 69KV	73.7	-0.14198		SIBLEY 69KV	45.99999	0.16359	-0.30557	
	'RALPH GREEN 69KV'	73.7	-0.11371		SIBLEY 161KV SIBLEY 69KV	230.7252 45.99999	0.19121 0.16359		16 17
MIPU									
MIPU	'NEVADA 69KV'	20.3	-0.04556		SIBLEY 161KV	230.7252	0.19121		20
MIPU	'GREENWOOD 161KV'	255.8	-0.18518		'LAKE ROAD 161KV'	35	0.03552		22
MIPU	'GREENWOOD 161KV'	255.8	-0.18518		'LAKE ROAD 34KV'	92	0.03552		22
MIPU	'NEVADA 69KV'	20.3	-0.04556		'SIBLEY 69KV'	45.99999	0.16359		
MIPU	'ARIES 161KV'	595	-0.14198		'LAKE ROAD 161KV'	35	0.03552		
MIPU	'ARIES 161KV'	595	-0.14198		'LAKE ROAD 34KV'	92	0.03552	-0.1775	
MIPU	'RALPH GREEN 69KV'	73.7	-0.11371		'LAKE ROAD 161KV'	35	0.03552		32
MIPU	'RALPH GREEN 69KV'	73.7	-0.11371		'LAKE ROAD 34KV'	92	0.03552		32
MIPU	'GREENWOOD 161KV'	255.8	-0.18518		'SOUTH HARPER 161KV'	252.9137	-0.04893		35
MIPU	'ARIES 161KV'	595	-0.14198		'SOUTH HARPER 161KV'	252.9137	-0.04893		52
MIPU	'NEVADA 69KV'	20.3	-0.04556		'LAKE ROAD 161KV'	35		-0.08108	60
MIPU	'NEVADA 69KV'	20.3	-0.04556		'LAKE ROAD 34KV'	92	0.03552		
KACP	'MARSHALL 161KV'	39.1	-0.03666		'HAWTHORN 161KV'	455	0.04087	-0.07753	62
KACP	'MARSHALL 161KV'	39.1	-0.03666		'HAWTHORN 161KV'	314	0.04087	-0.07753	62
KACP	'MARSHALL 161KV'	39.1	-0.03666		'NORTHEAST 13KV'	36	0.03795		65
KACP	'MARSHALL 161KV'	39.1	-0.03666		'NORTHEAST 13KV'	36	0.03795	-0.07461	65
KACP	'MARSHALL 161KV'	39.1	-0.03666		'NORTHEAST 161KV'	35			65
KACP	'MARSHALL 161KV'	39.1	-0.03666		'NORTHEAST 161KV'	38	0.03795		65
KACP	'MONTROSE 161KV'	26.40816	-0.02891		'HAWTHORN 161KV'	455	0.04087	-0.06978	
KACP	'MONTROSE 161KV'	26.40816	-0.02891		'HAWTHORN 161KV'	314		-0.06978	
KACP	'MONTROSE 161KV'	26.40816	-0.02891	KACP	'NORTHEAST 13KV'	36	0.03795	-0.06686	72
KACP	'MONTROSE 161KV'	26.40816	-0.02891	KACP	'NORTHEAST 13KV'	36	0.03795	-0.06686	72
KACP	'MONTROSE 161KV'	26.40816	-0.02891	KACP	'NORTHEAST 161KV'	35	0.03795	-0.06686	
KACP	'MONTROSE 161KV'	26,40816	-0.02891		'NORTHEAST 161KV'	38	0.03795		
MIPU	'RALPH GREEN 69KV'	73.7	-0.11371		'SOUTH HARPER 161KV'	252.9137	-0.04893	-0.06478	
KACP	'MARSHALL 161KV'	39.1	-0.03666		IATAN 345KV	396	0.0154		

 KACP
 [MARSHALL 161KV
 39.1
 -0.03668 [AACP
 [1ATAN 345KV

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

 Redispatch Amount = Relief Amount / Factor

Upgrade:	BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1					
Limiting Facility:	BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1					
Direction:	To->From					
Line Outage:	ORRICK - SIBLEY 161KV CKT 1					
Flowgate:	59205592351592445920211107SP					
Date Redispatch Needed:	6/1/07 - 10/1/07					
Season Flowgate Identified:	2007 Summer Peak					
		Aggregate Relief				
Reservation	Relief Amount	Amount				
1032955						
1034307	4.0	4.7				
		Maximum		Sink Control		Maximum
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(
MIPU	'GREENWOOD 161KV'	255.8	-0.18512		'SIBLEY 161KV'	1
MIPU	'ARIES 161KV'	595	-0.14191		'SIBLEY 161KV'	2
MIPU	'GREENWOOD 161KV'	255.8	-0.18512		'SIBLEY 69KV'	4
MIPU	'ARIES 161KV'	595	-0.14191		'SIBLEY 69KV'	4
MIPU	'RALPH GREEN 69KV'	73.7	-0.11361	MIPU	'SIBLEY 161KV'	1
MIPU	'RALPH GREEN 69KV'	73.7	-0.11361	MIPU	'SIBLEY 69KV'	4
MIPU	'GREENWOOD 161KV'	255.8	-0.18512		'LAKE ROAD 161KV'	
MIPU	'GREENWOOD 161KV'	255.8	-0.18512	MIPU	'LAKE ROAD 34KV'	
MIPU	'ARIES 161KV'	595	-0.14191	MIPU	'LAKE ROAD 161KV'	
MIPU	'ARIES 161KV'	595	-0.14191	MIPU	'LAKE ROAD 34KV'	
MIPU	'RALPH GREEN 69KV'	73.7	-0.11361	MIPU	'LAKE ROAD 161KV'	
MIPU	'RALPH GREEN 69KV'	73.7	-0.11361	MIPU	'LAKE ROAD 34KV'	
MIPU	'GREENWOOD 161KV'	255.8	-0.18512	MIPU	'SOUTH HARPER 161KV'	1
MIPU	'ARIES 161KV'	595	-0.14191	MIPU	'SOUTH HARPER 161KV'	2
MIPU	'NEVADA 69KV'	20.3	-0.04524	MIPU	'LAKE ROAD 161KV'	
MIPU	'NEVADA 69KV'	20.3	-0.04524	MIPU	'LAKE ROAD 34KV'	
KACP	'MARSHALL 161KV'	39.1	-0.03665	KACP	'HAWTHORN 161KV'	
KACP	'MARSHALL 161KV'	39.1	-0.03665	KACP	'HAWTHORN 161KV'	
KACP	'MARSHALL 161KV'	39.1	-0.03665	KACP	'NORTHEAST 13KV'	
KACP	'MARSHALL 161KV'	39.1	-0.03665	KACP	'NORTHEAST 13KV'	
KACP	'MARSHALL 161KV'	39.1	-0.03665	KACP	'NORTHEAST 161KV'	
KACP	'MARSHALL 161KV'	39.1	-0.03665	KACP	'NORTHEAST 161KV'	
KACP	'MONTROSE 161KV'	25.38608	-0.02876	KACP	'HAWTHORN 161KV'	
KACP	'MONTROSE 161KV'	25.38608	-0.02876	KACP	'HAWTHORN 161KV'	
KACP	'MONTROSE 161KV'	25.38608	-0.02876	KACP	'NORTHEAST 13KV'	
KACP	'MONTROSE 161KV'	25.38608	-0.02876		'NORTHEAST 13KV'	
KACP	'MONTROSE 161KV'	25.38608	-0.02876		'NORTHEAST 161KV'	
KACP	'MONTROSE 161KV'	25,38608	-0.02876	KACP	'NORTHEAST 161KV'	
			=	1		1

 KACP
 IMONTROSE
 161KV'
 25.38081
 -0.02876 [KACP'
 INUKLIEASI
 101KV'

 MIPU
 TRALPH GREEN 69KV'
 73.73
 -0.13861 [MIPU
 [SOUTH HARPER 161KV'

 KACP
 MARSHALL 161KV'
 39.1
 -0.03665 [KACP'
 [IATAN 345KV'

 KACP
 MARSHALL 161KV'
 39.1
 -0.03665 [KACP'
 [IATAN 345KV'

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

Upgrade: Limiting Facility:	BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1 BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1								
Direction:	To->From								
Line Outage:	ORRICK - RICHMOND 161KV CKT 1								
Flowgate:	59205592351592445923611107SP								
Date Redispatch Needed:	6/1/07 - 10/1/07								
Season Flowgate Identified:	2007 Summer Peak								
		Aggregate Relief	1						
Reservation	Relief Amount	Amount							
1032955	5 0.8	4.7	1						
1034307	7 4.0		1						
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
MIPU	'GREENWOOD 161KV'	255.8	-0.18512	MIPU	'SIBLEY 161KV'	228.9144	0.19108	-0.3762	2 1
MIPU	'ARIES 161KV'	595	-0.14191	MIPU	'SIBLEY 161KV'	228.9144	0.19108	-0.33299	
MIPU	'GREENWOOD 161KV'	255.8	-0.18512	MIPU	SIBLEY 69KV	45.99999	0.16342	-0.34854	1 1
MIPU	'ARIES 161KV'	595	-0.14191	MIPU	SIBLEY 69KV	45.99999	0.16342	-0.30533	1
MIPU	'RALPH GREEN 69KV'	73.7	-0.11361	MIPU	'SIBLEY 161KV'	228.9144	0.19108	-0.30469	) 1
MIPU	'RALPH GREEN 69KV'	73.7	-0.11361	MIPU	SIBLEY 69KV	45,99999	0.16342	-0.27703	1
MIPU	'GREENWOOD 161KV'	255.8	-0.18512	MIPU	'LAKE ROAD 161KV'	35	0.03537	-0.22049	2
MIPU	'GREENWOOD 161KV'	255.8	-0.18512	MIPU	'LAKE ROAD 34KV'	92	0.03537	-0.22049	2
MIPU	'ARIES 161KV'	595			'LAKE ROAD 161KV'	35	0.03537	-0.17728	3 2
MIPU	'ARIES 161KV'	595	-0.14191	MIPU	'LAKE ROAD 34KV'	92		-0.17728	
MIPU	'RALPH GREEN 69KV'	73.7	-0.11361	MIPU	'LAKE ROAD 161KV'	35	0.03537	-0.14898	
MIPU	'RALPH GREEN 69KV'	73.7	-0.11361	MIPU	'LAKE ROAD 34KV'	92	0.03537	-0.14898	3
MIPU	'GREENWOOD 161KV'	255.8	-0.18512	MIPU	'SOUTH HARPER 161KV'	228.0012	-0.04881	-0.13631	3
MIPU	'ARIES 161KV'	595	-0.14191	MIPU	'SOUTH HARPER 161KV'	228.0012	-0.04881	-0.0931	5
MIPU	'NEVADA 69KV'	20.3	-0.04524		'LAKE ROAD 161KV'	35		-0.08061	5
MIPU	'NEVADA 69KV'	20.3	-0.04524		'LAKE ROAD 34KV'	92		-0.08061	
KACP	'MARSHALL 161KV'	39.1	-0.03665		'HAWTHORN 161KV'	455		-0.0771	
KACP	'MARSHALL 161KV'	39.1	-0.03665		'HAWTHORN 161KV'	314	0.04045	-0.0771	6
KACP	'MARSHALL 161KV'	39.1	-0.03665	KACP	'NORTHEAST 13KV'	36	0.0372	-0.07385	6
KACP	'MARSHALL 161KV'	39.1	-0.03665		'NORTHEAST 13KV'	36	0.0372	-0.07385	
KACP	'MARSHALL 161KV'	39.1	-0.03665		'NORTHEAST 161KV'	35		-0.07385	
KACP	'MARSHALL 161KV'	39.1	-0.03665		'NORTHEAST 161KV'	38		-0.07385	
KACP	'MONTROSE 161KV'	25.38608	-0.02876		'HAWTHORN 161KV'	455		-0.06921	
KACP	'MONTROSE 161KV'	25.38608	-0.02876		'HAWTHORN 161KV'	314		-0.06921	6
KACP	'MONTROSE 161KV'	25.38608	-0.02876		'NORTHEAST 13KV'	36		-0.06596	
KACP	'MONTROSE 161KV'	25.38608	-0.02876		'NORTHEAST 13KV'	36		-0.06596	
KACP	'MONTROSE 161KV'	25.38608	-0.02876		'NORTHEAST 161KV'	35		-0.06596	
KACP	'MONTROSE 161KV'	25.38608	-0.02876		'NORTHEAST 161KV'	38		-0.06596	
MIPU	'RALPH GREEN 69KV'	73.7	-0.11361	MIPU	'SOUTH HARPER 161KV'	228.0012	-0.04881	-0.0648	3
KACP	'MARSHALL 161KV'	39.1	-0.03665	KACP	'IATAN 345KV'	396	0.01544	-0.05209	) 9

Redispatch

Amount (MW)

Factor

-0.3762 -0.33299 -0.34854 -0.34854 -0.34854 -0.34694 -0.27703 -0.27049 -0.27049 -0.27049 -0.27049 -0.27049 -0.27049 -0.17728 -0.14898 -0.07385 -0.07385 -0.07385 -0.07385 -0.07385 -0.06821 -0.06821 -0.06856 -0.06856

-0.0648

 Implementation
 CSF
 F

 228.9144
 0.19108
 1.9108

 45.99999
 0.16342
 1.8324

 45.99999
 0.16342
 1.8342

 45.99999
 0.16342
 1.8342

 45.99999
 0.16342
 1.8342

 45.99999
 0.16342
 1.8342

 50.03537
 35
 0.03537

 35
 0.03537
 1.832

 32
 0.03537
 1.03537

 32
 0.03537
 1.03537

 32
 0.03537
 1.04881

 228.0012
 -0.04881
 1.03537

 32
 0.03537
 1.03537

 32
 0.03537
 1.04451

 34
 0.04045
 1.314

 34
 0.04045
 1.314

 34
 0.04045
 1.314

 35
 0.0372
 1.0434

 36
 0.0372
 1.04451

 36
 0.0372
 1.04454

 36
 0.0372
 1.04454

 36
 0.0372

Decrement(MW)

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

Upgrade: Limiting Facility:	BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT						
	BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT	1					
Direction:	To->From						
Line Outage:	ORRICK - RICHMOND 161KV CKT 1						
Flowgate:	59205592351592445923612106SP						
Date Redispatch Needed:	6/1/06 - 10/1/06						
Season Flowgate Identified:	2006 Summer Peak		1				
		Aggregate Relief					
Reservation	Relief Amount	Amount	-				
1032955		0.8 4.8					
1034307	7	4.8					
		Maximum	Sink Control		Maximum		
Source Control Area	Source	Increment(MW)	GSF Area	Sink	Decrement(MW)	GSF	Factor
MIPU	'GREENWOOD 161KV'	255.8		'SIBLEY 161KV'	230.383		
MIPU	'ARIES 161KV'	595		'SIBLEY 161KV'	230.383		
MIPU	'GREENWOOD 161KV'	255.8		'SIBLEY 69KV'	45.99999	0.16359	
MIPU	'ARIES 161KV'	595		'SIBLEY 69KV'	45.99999		
MIPU	'RALPH GREEN 69KV'	73.7		'SIBLEY 161KV'	230.383	0.19121	-0.304
MIPU	'RALPH GREEN 69KV'	73.7	-0.11371 MIPU	SIBLEY 69KV	45.99999	0.16359	-0.27
MIPU	'NEVADA 69KV'	20.3	-0.04556 MIPU	'SIBLEY 161KV'	230.383	0.19121	-0.236
MIPU	'GREENWOOD 161KV'	255.8	-0.18518 MIPU	'LAKE ROAD 161KV'	35	0.03552	-0.22
MIPU	'GREENWOOD 161KV'	255.8		'LAKE ROAD 34KV'	92		
MIPU	'NEVADA 69KV'	20.3	-0.04556 MIPU	'SIBLEY 69KV'	45.99999	0.16359	-0.209
MIPU	'ARIES 161KV'	595		LAKE ROAD 161KV	35		
MIPU	'ARIES 161KV'	595		'LAKE ROAD 34KV'	92		
MIPU	'RALPH GREEN 69KV'	73.7		'LAKE ROAD 161KV'	35		
MIPU	'RALPH GREEN 69KV'	73.7		LAKE ROAD 34KV	92		
MIPU	'GREENWOOD 161KV'	255.8		SOUTH HARPER 161KV	232.4752		
MIPU	'ARIES 161KV'	595		SOUTH HARPER 161KV	232.4752		
MIPU	'NEVADA 69KV'	20.3		LAKE ROAD 161KV	35		
MIPU	'NEVADA 69KV'	20.3		LAKE ROAD 34KV	92		
KACP	'MARSHALL 161KV'	54.1		HAWTHORN 161KV	455		
KACP	MARSHALL 161KV	54.1		'HAWTHORN 161KV'	314		
KACP	MARSHALL 161KV	54.1		'NORTHEAST 13KV'	36		
KACP	MARSHALL 161KV	54.1		NORTHEAST 13KV	36		
KACP	MARSHALL 161KV	54.1		NORTHEAST 161KV	35		
KACP	MARSHALL 161KV	54.1	-0.03666 KACP	NORTHEAST 161KV	25.96729		
KACP	MARSHALL INIKV	25.80621		HAWTHORN 161KV	25.96729		
KACP	MONTROSE 161KV	25.80621		HAWTHORN 161KV	314		
KACP	MONTROSE 161KV	25.80621		NORTHEAST 13KV	314		
KACP	MONTROSE 161KV	25.80621	-0.02891 KACP	NORTHEAST 13KV	36		
KACP		25.80621		NORTHEAST 13KV			
KACP	'MONTROSE 161KV' 'MONTROSE 161KV'	25.80621		NORTHEAST 161KV	25.96729		
	RALPH GREEN 69KV			SOUTH HARPER 161KV			
MIPU		73.7	-0.11371 MIPU		232.4752		
KACP	'MARSHALL 161KV'	54.1		'IATAN 345KV'	396		
KACP	MARSHALL 161KV'	54.1		'BULL CREEK 161KV'	308	-0.0047	-0.0319

Redispatch Amount (MW)

 $\begin{array}{c} 13\\ 14\\ 14\\ 16\\ 16\\ 16\\ 17\\ 20\\ 22\\ 23\\ 32\\ 32\\ 32\\ 32\\ 32\\ 32\\ 32\\ 60\\ 60\\ 60\\ 62\\ 65\\ 65\\ 65\\ 69\\ 99\\ 72\\ 72\\ 72\\ 72\\ 72\\ 72\\ 72\\ 75\\ 53\\ 151 \end{array}$ 

 KACP
 [MARSHALL 161KV'
 54.1
 -0.03666[KACP
 [BULL CREEK 161KV'

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

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

Jpgrade:	BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1								
imiting Facility:	BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1								
Direction:	To->From								
ine Outage:	PLEASANT HILL () 345/161/13.8KV TRANSFORMER CK	11							
lowgate: Date Redispatch Needed:	59205592351PHILL737511106SP 6/1/06 - 10/1/06								
Season Flowgate Identified:	2006 Summer Peak								
eason Flowgate Identified:		Assessed Dallaf							
Reservation	Relief Amount	Aggregate Relief Amount							
1032955		3.6							
1032355		3.6							
1034307	0.1	Maximum 3.0		Sink Control		Maximum	1		Redispatch
ource Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
/IPU	'GREENWOOD 161KV'	255.8	-0.2726		'SIBLEY 161KV'	230.7252		-0.42745	
/IPU	'ARIES 161KV'	595	-0.24243		'SIBLEY 161KV'	230.7252		-0.39728	
/IPU	'GREENWOOD 161KV'	255.8	-0.2726		'SIBLEY 69KV'	45.99999		-0.40532	
/IPU	'ARIES 161KV'	595	-0.24243		'SIBLEY 69KV'	45.99999		-0.37515	
/IPU	'RALPH GREEN 69KV'	73.7	-0.16187		'SIBLEY 161KV'	230.7252		-0.31672	
/IPU	'GREENWOOD 161KV'	255.8	-0.2726		'LAKE ROAD 161KV'	35		-0.30138	
1IPU	'GREENWOOD 161KV'	255.8	-0.2726		'LAKE ROAD 34KV'	92		-0.30138	
AIPU	'RALPH GREEN 69KV'	73.7	-0.16187		'SIBLEY 69KV'	45.99999		-0.29459	
AIPU	'ARIES 161KV'	595	-0.24243		'LAKE ROAD 161KV'	35		-0.27121	
/IPU	'ARIES 161KV'	595	-0.24243		'LAKE ROAD 34KV'	92		-0.27121	
/IPU	'GREENWOOD 161KV'	255.8	-0.2726		'SOUTH HARPER 161KV'	252.9137		-0.22236	
/IPU	'NEVADA 69KV'	20.3	-0.06432		'SIBLEY 161KV'	230.7252		-0.21917	
/IPU	'NEVADA 69KV'	20.3	-0.06432		SIBLEY 69KV	45.99999		-0.19704	
/IPU /IPU	'ARIES 161KV'	595	-0.24243		SOUTH HARPER 161KV	252.9137		-0.19219	
/IPU /IPU	'RALPH GREEN 69KV'	73.7	-0.16187		LAKE ROAD 161KV	35		-0.19065	
/IPU /IPU	'RALPH GREEN 69KV'	73.7	-0.16187		LAKE ROAD 34KV	92		-0.19065	
/IPU /IPU	'RALPH GREEN 69KV' 'NEVADA 69KV'	73.7	-0.06432		'SOUTH HARPER 161KV' 'LAKE ROAD 161KV'	252.9137		-0.11163	
1IPU 1IPU	'NEVADA 69KV'	20.3	-0.06432		LAKE ROAD 161KV	92		-0.0931	
ACP	MONTROSE 161KV	26.40816	-0.04268		'HAWTHORN 161KV'	455		-0.07462	
ACP	MONTROSE 161KV	26.40816	-0.04268		'HAWTHORN 161KV'	455		-0.07462	
ACP	'MONTROSE 161KV'	26.40816	-0.04268		'NORTHEAST 13KV'	36		-0.07402	
ACP	'MONTROSE 161KV'	26.40816	-0.04268		NORTHEAST 13KV	36		-0.07149	
ACP	'MONTROSE 161KV'	26.40816	-0.04268		'NORTHEAST 161KV'	35		-0.07149	
ACP	'MONTROSE 161KV'	26.40816	-0.04268		'NORTHEAST 161KV'	38		-0.07149	
ACP	'MARSHALL 161KV'	39.1	-0.02274		'HAWTHORN 161KV'	455		-0.05468	
ACP	'MARSHALL 161KV'	39.1	-0.02274		'HAWTHORN 161KV'	314		-0.05468	
ACP	'MONTROSE 161KV'	26.40816	-0.04268		'IATAN 345KV'	396		-0.05408	
ACP	'MARSHALL 161KV'	39.1	-0.02274		'NORTHEAST 13KV'	36		-0.05155	
ACP	'MARSHALL 161KV'	39.1	-0.02274		'NORTHEAST 13KV'	36		-0.05155	
ACP	'MARSHALL 161KV'	39.1	-0.02274		'NORTHEAST 161KV'	35		-0.05155	
ACP	'MARSHALL 161KV'	39.1	-0.02274		'NORTHEAST 161KV'	38		-0.05155	
ACP	MARSHALL 161KV	39.1	-0.02274		'IATAN 345KV'	396		-0.03414	

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

imiting Facility:	BLUE SPRINGS EAST - DUNCAN ROAD 161KV CKT 1								
Direction:	To->From								
ine Outage:	PLEASANT HILL () 345/161/13.8KV TRANSFORMER CK	T 1							
lowgate:	59205592351PHILL737511107SP								
Date Redispatch Needed:	6/1/07 - 10/1/07								
Season Flowgate Identified:	2007 Summer Peak								
season nowgate identified.		Aggregate Relief	1						
Deservation	Relief Amount	Amount							
Reservation 1032955		0.5	{						
1032955	0.5			Olali Oratari		Mandamura			Dedlesetab
		Maximum	0.05	Sink Control		Maximum	0.05	-	Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW
MIPU	'ARIES 161KV'	595	-0.24237		SIBLEY 161KV	228.9144		-0.39706	
MIPU	'ARIES 161KV'	595	-0.24237		'SIBLEY 69KV'	45.99999	0.13254	-0.37491	
ЛIPU	'GREENWOOD 161KV'	255.8	-0.27256		'SIBLEY 161KV'	228.9144	0.15469	-0.42725	
MIPU	'GREENWOOD 161KV'	255.8			'SIBLEY 69KV'	45.99999	0.13254	-0.4051	
MIPU	'ARIES 161KV'	595	-0.24237		'LAKE ROAD 161KV'	35	0.02861	-0.27098	
/IPU	'ARIES 161KV'	595	-0.24237		'LAKE ROAD 34KV'	92	0.02861	-0.27098	
/IPU	'GREENWOOD 161KV'	255.8	-0.27256	MIPU	'LAKE ROAD 161KV'	35	0.02861	-0.30117	
/IPU	'GREENWOOD 161KV'	255.8	-0.27256	MIPU	'LAKE ROAD 34KV'	92	0.02861	-0.30117	
/IPU	'GREENWOOD 161KV'	255.8	-0.27256		'SOUTH HARPER 161KV'	228.0012	-0.05015	-0.22241	
/IPU	'RALPH GREEN 69KV'	73.7	-0.1618		'SIBLEY 161KV'	228,9144	0.15469	-0.31649	,
/IPU	'RALPH GREEN 69KV'	73.7	-0.1618		'SIBLEY 69KV'	45.99999	0.13254	-0.29434	
/IPU	'ARIES 161KV'	595	-0.24237		SOUTH HARPER 161KV	228.0012		-0.19222	
MIPU	'RALPH GREEN 69KV'	73.7	-0.1618		LAKE ROAD 161KV	35	0.02861	-0.19041	
11PU	'RALPH GREEN 69KV'	73.7	-0.1618		LAKE ROAD 34KV	92	0.02861	-0.19041	
11PU	'RALPH GREEN 69KV'	73.7	-0.1618		SOUTH HARPER 161KV	228.0012	-0.05015	-0.11165	
11PU	'NEVADA 69KV'	20.3	-0.06397		LAKE ROAD 161KV	220.0012	0.02861	-0.09258	
/IPU	'NEVADA 69KV'	20.3	-0.06397		LAKE ROAD 34KV	92	0.02861	-0.09258	
KACP		25.38608					0.02861	-0.09258	
	'MONTROSE 161KV'		-0.04256		'HAWTHORN 161KV'	455			
KACP	'MONTROSE 161KV'	25.38608	-0.04256		'HAWTHORN 161KV'	314	0.03152	-0.07408	
KACP	'MONTROSE 161KV'	25.38608	-0.04256		'NORTHEAST 13KV'	36	0.02809	-0.07065	
KACP	'MONTROSE 161KV'	25.38608	-0.04256		'NORTHEAST 13KV'	36	0.02809	-0.07065	
KACP	'MONTROSE 161KV'	25.38608	-0.04256		'NORTHEAST 13KV'	9.647949	0.02809	-0.07065	
ACP	'MONTROSE 161KV'	25.38608	-0.04256		'NORTHEAST 161KV'	35	0.02809	-0.07065	
ACP	'MONTROSE 161KV'	25.38608	-0.04256		'NORTHEAST 161KV'	38	0.02809	-0.07065	
ACP	'MARSHALL 161KV'	39.1	-0.02287	KACP	'HAWTHORN 161KV'	455	0.03152	-0.05439	
ACP	'MARSHALL 161KV'	39.1	-0.02287	KACP	'HAWTHORN 161KV'	314	0.03152	-0.05439	,
ACP	'MONTROSE 161KV'	25.38608	-0.04256	KACP	'IATAN 345KV'	396	0.01143	-0.05399	/
ACP	'MARSHALL 161KV'	39.1	-0.02287	KACP	'NORTHEAST 13KV'	36	0.02809	-0.05096	,
ACP	'MARSHALL 161KV'	39.1	-0.02287	KACP	'NORTHEAST 13KV'	36	0.02809	-0.05096	i
ACP	'MARSHALL 161KV'	39.1	-0.02287		'NORTHEAST 13KV'	9.647949	0.02809	-0.05096	
ACP	'MARSHALL 161KV'	39.1	-0.02287		'NORTHEAST 161KV'	35	0.02809	-0.05096	
ACP	'MARSHALL 161KV'	39.1	-0.02287		'NORTHEAST 161KV'	38	0.02809	-0.05096	
WPA	STOCKTON 161KV	7.927952	-0.03228		CLARENCE CANNON DAM 69KV	39.16882	0.02003	-0.03729	
ACP	'MARSHALL 161KV'	39.1	-0.02287		IATAN 345KV	396	0.00301	-0.03729	
ACP	MARSHALL INIKV	25.38608	-0.02287		BULL CREEK 161KV	396	-0.00861	-0.03395	
WPA	STOCKTON 161KV	7.927952	-0.04256		SIKESTON 161KV	235	-0.00081	-0.03395	
ACP	'MONTROSE 161KV'	25.38608	-0.04256		'LACYGNE UNIT 345KV'	958	-0.01128	-0.03128	
SWPA	STOCKTON 161KV	7.927952	-0.03228		'JONESBORO 161KV'	63	-0.00164	-0.03064	
WPA	STOCKTON 161KV	7.927952	-0.03228		'KENNETT 69KV'	7.2	-0.00096	-0.03132	
WPA	'STOCKTON 161KV'	7.927952	-0.03228		'MALDEN 69KV'	7	-0.00073	-0.03155	
WPA	'STOCKTON 161KV'	7.927952	-0.03228		'PARAGOULD 69KV'	5.5		-0.03093	
WPA	'STOCKTON 161KV'	7.927952	-0.03228	SWPA	'POPLAR BLUFF 69KV'	6	-0.00088	-0.0314	

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

	5/1525/165156/6556//21110/G	Flowgate:
	57152571651567655677211107G	Flowgate:
	To->From HOYT - STRANGER CREEK 345KV CKT 1	Direction: Line Outage:
KV CKT 1	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 11	
		Upgrade: Limiting Facility:

		Maximum	Sink Control		Maximum		_	Redispatch
urce Control Area	Source	Increment(MW)	GSF Area	Sink			Factor	Amount (M
RE RE	'HOLTON 115KV' 'HOLTON 115KV'	19.8 19.8	-0.64997 WERE -0.64997 WERE	'ABILENE ENERGY CENTER 115KV' 'BPU - CITY OF MCPHERSON 115KV'	40	0.04412 0.03841	-0.69409	
RE	HOLTON 115KV	19.8	-0.64997 WERE	HUTCHINSON ENERGY CENTER 115KV	135	0.0348	-0.68477	-
E	'HOLTON 115KV'	19.8	-0.64997 WERE	JEFFREY ENERGY CENTER 230KV	486	0.05728	-0.70725	i i
E	'HOLTON 115KV'	19.8	-0.64997 WERE	'JEFFREY ENERGY CENTER 345KV'	924	0.06249	-0.71246	i
E	'HOLTON 115KV'	19.8		'TECUMSEH ENERGY CENTER 115KV'	61.7087	0.06053	-0.7105	
RE	BROWN COUNTY 115KV	4.3	-0.29907 WERE	ABILENE ENERGY CENTER 115KV	40	0.04412	-0.34319	
RE RE	BROWN COUNTY 115KV BROWN COUNTY 115KV	4.3	-0.29907 WERE -0.29907 WERE	'BPU - CITY OF MCPHERSON 115KV' 'HUTCHINSON ENERGY CENTER 115KV'	135	0.03841	-0.33748	;
RE	BROWN COUNTY 115KV	4.3	-0.29907 WERE	JEFFREY ENERGY CENTER 230KV	486	0.05728	-0.35635	
RE	'BROWN COUNTY 115KV'	4.3	-0.29907 WERE	'JEFFREY ENERGY CENTER 345KV'	924	0.06249	-0.36156	j
RE	'BROWN COUNTY 115KV'	4.3	-0.29907 WERE	'TECUMSEH ENERGY CENTER 115KV'	61.7087	0.06053	-0.3596	i
RE	'SOUTH SENECA 115KV'	15	-0.27 WERE -0.27 WERE	'JEFFREY ENERGY CENTER 230KV'	486	0.05728	-0.32728	1
RE	'SOUTH SENECA 115KV' 'SOUTH SENECA 115KV'	15	-0.27 WERE	'JEFFREY ENERGY CENTER 345KV' 'TECUMSEH ENERGY CENTER 115KV'	924 61.7087	0.06249 0.06053	-0.33249	
RE	BROWN COUNTY 115KV	4.3	-0.29907 WERE	'CITY OF AUGUSTA 69KV'	24.3	0.00222	-0.30129	1
RE	'BROWN COUNTY 115KV'	4.3	-0.29907 WERE	'CITY OF MULVANE 69KV'	4.922	0.0084	-0.30747	
RE	'BROWN COUNTY 115KV'	4.3		'CITY OF WELLINGTON 69KV'	39.5	0.00812	-0.30719	1
RE	BROWN COUNTY 115KV	4.3	-0.29907 WERE -0.29907 WERE	CITY OF WINFIELD 69KV	11.44398	0.00698	-0.30605	1
RE	BROWN COUNTY 115KV BROWN COUNTY 115KV	4.3		'EVANS ENERGY CENTER 138KV' 'GILL ENERGY CENTER 138KV'	340 155	0.01079 0.00943	-0.30986 -0.3085	
RE	BROWN COUNTY 115KV	4.3	-0.29907 WERE	WACO 138KV'	135	0.00943	-0.30864	
RE	'SOUTH SENECA 115KV'	15	-0.27 WERE	'ABILENE ENERGY CENTER 115KV'	40	0.04412	-0.31412	
RE	'SOUTH SENECA 115KV'	15	-0.27 WERE	'BPU - CITY OF MCPHERSON 115KV'	135	0.03841	-0.30841	1
RE	SOUTH SENECA 115KV	15	-0.27 WERE	CITY OF MULVANE 69KV	4.922	0.0084	-0.2784	1
RE	'SOUTH SENECA 115KV' 'SOUTH SENECA 115KV'	15	-0.27 WERE -0.27 WERE	'EVANS ENERGY CENTER 138KV' 'GILL ENERGY CENTER 138KV'	340	0.01079 0.00943	-0.28079 -0.27943	
RE	SOUTH SENECA 115KV	15	-0.27 WERE	HUTCHINSON ENERGY CENTER 115KV	100	0.00943	-0.27943	
RE	'SOUTH SENECA 115KV'	15	-0.27 WERE	'WACO 138KV'	18	0.00957	-0.27957	
2	'GREENLEAF 115KV'	10.15	-0.12403 WEPL	'A. M. MULLERGREN GENERATOR 115KV'	26.09793	0.01951	-0.14354	
PL	CLIFTON 115KV	70		A. M. MULLERGREN GENERATOR 115KV	26.09793	0.01951	-0.10271	
RE	'GETTY 69KV' 'GETTY 69KV'	35		'JEFFREY ENERGY CENTER 345KV' 'TECUMSEH ENERGY CENTER 115KV'	924	0.06249	-0.06467	
RE	CHANUTE 69KV	40.21	-0.00218 WERE 0.00585 WERE	JEFFREY ENERGY CENTER 345KV	61.7087 924	0.06053	-0.06271	
RE	'CITY OF ERIE 69KV'	26.53	0.00585 WERE	JEFEREY ENERGY CENTER 345KV	924	0.06249	-0.05664	
RE	'CITY OF FREDONIA 69KV'	10.294	0.00532 WERE	JEFFREY ENERGY CENTER 345KV JEFFREY ENERGY CENTER 230KV	924	0.06249	-0.05717	
RE	'GETTY 69KV'	35		JEFFREY ENERGY CENTER 230KV	486	0.05728	-0.05946	
RE	'CHANUTE 69KV' 'CITY OF ERIE 69KV'	40.21 26.53	0.00585 WERE 0.00585 WERE	'TECUMSEH ENERGY CENTER 115KV' 'TECUMSEH ENERGY CENTER 115KV'	61.7087 61.7087	0.06053	-0.05468	
RE	CITY OF FREDONIA 69KV	10.294		TECUMSEH ENERGY CENTER 115KV	61.7087	0.06053	-0.05468	-
RE	'CITY OF GIRARD 69KV'	8.174	0.00649 WERE	'JEFFREY ENERGY CENTER 345KV'	924	0.06249	-0.056	j l
RE	'CITY OF GIRARD 69KV'	8.174	0.00649 WERE	'TECUMSEH ENERGY CENTER 115KV'	61.7087	0.06053	-0.05404	
RE	CITY OF IOLA 69KV	20.548	0.00627 WERE	JEFFREY ENERGY CENTER 345KV	924	0.06249	-0.05622	
RE RE	'CITY OF IOLA 69KV' 'CITY OF MULVANE 69KV'	20.548 10.868	0.00627 WERE 0.0084 WERE	'TECUMSEH ENERGY CENTER 115KV' 'JEFFREY ENERGY CENTER 345KV'	61.7087 924	0.06053	-0.05426	
RE	CITY OF WINFIELD 69KV	28.55602	0.00698 WERE	JEFFREY ENERGY CENTER 345KV	924	0.06249	-0.05409	
RE	'NEOSHO ENERGY CENTER 138KV'	47	0.0065 WERE	JEFFREY ENERGY CENTER 345KV	924	0.06249	-0.05599	1
RE	'NEOSHO ENERGY CENTER 138KV'	47	0.0065 WERE	'TECUMSEH ENERGY CENTER 115KV'	61.7087	0.06053	-0.05403	j
RE	'CHANUTE 69KV'	40.21		'JEFFREY ENERGY CENTER 230KV'	486	0.05728	-0.05143	i
RE RE	CITY OF ERIE 69KV' CITY OF FREDONIA 69KV'	26.53 10.294	0.00585 WERE 0.00532 WERE	'JEFFREY ENERGY CENTER 230KV' 'JEFFREY ENERGY CENTER 230KV'	486 486	0.05728	-0.05143	
RE	CITY OF PREDONIA 69KV	10.294	0.00532 WERE	TECUMSEH ENERGY CENTER 115KV	61.7087	0.06053	-0.05196	
RE	'CITY OF WINFIELD 69KV'	28.55602	0.00698 WERE	'TECUMSEH ENERGY CENTER 115KV'	61.7087	0.06053	-0.05355	,
RE	'EVANS ENERGY CENTER 138KV'	283	0.01079 WERE	'JEFFREY ENERGY CENTER 345KV'	924	0.06249	-0.0517	
RE	'GILL ENERGY CENTER 138KV'	17.99999	0.00943 WERE	JEFFREY ENERGY CENTER 345KV	924	0.06249	-0.05306	1
RE	'GILL ENERGY CENTER 69KV' 'GILL ENERGY CENTER 69KV'	118	0.00922 WERE 0.00922 WERE	JEFFREY ENERGY CENTER 345KV	924 61.7087	0.06249	-0.05327	-
RE RF	CITY OF GIRARD 69KV	118 8.174		'TECUMSEH ENERGY CENTER 115KV' 'JEFFREY ENERGY CENTER 230KV'	61.7087	0.06053	-0.05131	
RE	CITY OF IOLA 69KV	20.548	0.00627 WERE	JEFFREY ENERGY CENTER 230KV	486	0.05728	-0.05101	
RE	'CITY OF WINFIELD 69KV'	28.55602	0.00698 WERE	'JEFFREY ENERGY CENTER 230KV'	486	0.05728	-0.0503	
RE	'EVANS ENERGY CENTER 138KV'	283	0.01079 WERE	'TECUMSEH ENERGY CENTER 115KV'	61.7087	0.06053	-0.04974	4
RE	'GILL ENERGY CENTER 138KV' 'NEOSHO ENERGY CENTER 138KV'	17.99999	0.00943 WERE 0.0065 WERE	'TECUMSEH ENERGY CENTER 115KV' 'JEFFREY ENERGY CENTER 230KV'	61.7087 486	0.06053	-0.0511	+
RE	CITY OF MULVANE 69KV	47 10.868		JEFFREY ENERGY CENTER 230KV JEFFREY ENERGY CENTER 230KV	486	0.05728	-0.05078	t
RE	GILL ENERGY CENTER 138KV	17.99999	0.00943 WERE	JEFFREY ENERGY CENTER 230KV	486	0.05728	-0.04888	1
RE	'GILL ENERGY CENTER 69KV'	118	0.00922 WERE	'JEFFREY ENERGY CENTER 230KV'	486	0.05728	-0.04806	5
RE	'EVANS ENERGY CENTER 138KV'	283	0.01079 WERE	'JEFFREY ENERGY CENTER 230KV'	486	0.05728	-0.04649	
RE	'GETTY 69KV'	35	-0.00218 WERE	ABILENE ENERGY CENTER 115KV	40	0.04412	-0.0463	4
RE	'GETTY 69KV' 'CITY OF FREDONIA 69KV'	35	-0.00218 WERE 0.00532 WERE	'BPU - CITY OF MCPHERSON 115KV' 'ABILENE ENERGY CENTER 115KV'	135	0.03841	-0.04059	t
E	CHANUTE 69KV	40.21		ABILENE ENERGY CENTER 115KV	40	0.04412	-0.03827	-
RE	'CITY OF ERIE 69KV'	26.53	0.00585 WERE	'ABILENE ENERGY CENTER 115KV'	40	0.04412	-0.03827	
RE	'CITY OF IOLA 69KV'	20.548	0.00627 WERE	'ABILENE ENERGY CENTER 115KV'	40	0.04412	-0.03785	
RE	'NEOSHO ENERGY CENTER 138KV'	47	0.0065 WERE	ABILENE ENERGY CENTER 115KV	40	0.04412	-0.03762	4
RE	'CITY OF WINFIELD 69KV' 'GETTY 69KV'	28.55602	0.00698 WERE -0.00218 WERE	'ABILENE ENERGY CENTER 115KV' 'HUTCHINSON ENERGY CENTER 115KV'	40	0.04412 0.0348	-0.03714	1
E	CITY OF MULVANE 69KV	10.868	0.00218 WERE	ABILENE ENERGY CENTER 115KV	40	0.0346	-0.03698	
E	'GILL ENERGY CENTER 138KV'	17.99999	0.00943 WERE	'ABILENE ENERGY CENTER 115KV'	40	0.04412	-0.03469	
RE	'GILL ENERGY CENTER 69KV'	118	0.00922 WERE	'ABILENE ENERGY CENTER 115KV'	40	0.04412	-0.0349	)
RE	'EVANS ENERGY CENTER 138KV'	283		'ABILENE ENERGY CENTER 115KV'	40	0.04412	-0.03333	
RE	CHANUTE 69KV	40.21		BPU - CITY OF MCPHERSON 115KV	135	0.03841	-0.03256	<u>+</u>
E	CITY OF ERIE 69KV	26.53	0.00585 WERE	'BPU - CITY OF MCPHERSON 115KV'	135	0.03841	-0.03256	
RE	'CITY OF IOLA 69KV' 'CITY OF WINFIELD 69KV'	20.548 28.55602	0.00627 WERE 0.00698 WERE	BPU - CITY OF MCPHERSON 115KV BPU - CITY OF MCPHERSON 115KV	135 135	0.03841 0.03841	-0.03214 -0.03143	<del>.</del>
RE	'NEOSHO ENERGY CENTER 138KV'	20.35002		'BPU - CITY OF MCPHERSON 115KV'	135	0.03841	-0.03143	
	timum Increment were determine from the Souce and Sink				100			

Upgrade:	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115K	V CKT 1
Limiting Facility:	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115K	V CKT 1
Direction:	To->From	
Line Outage:	HOYT - STRANGER CREEK 345KV CKT 1	
Flowgate:	57152571651567655677211207WP	
Date Redispatch Needed:	12/1/07 - 4/1/08	
Season Flowgate Identified:	2007 Winter Peak	
		Aggregate Relief
Reservation	Relief Amount	Amount
1034589	0.3	1.1

NormNormNormNormNormNormNormNormNormNormNorm0.001000<		0.3								
		1034590	Maximu	ım						
		HOLTON 115KV	Increme							Amount (MW)
	WERE	'HOLTON 115KV'		19.8	-0.65008	WERE	'BPU - CITY OF MCPHERSON 115KV'	135 0.0384	-0.68848	2
	WERE									
	WERE						'JEFFREY ENERGY CENTER 345KV'			2
	WERE				-0.65008	WERE	'SMOKEY HILLS 34KV'	50 0.03745	-0.68753	2
										2
	WERE	BROWN COUNTY 115KV			-0.29902	WERE	'BPU - CITY OF MCPHERSON 115KV'			3
NMM         NMM         Second control intory         4.1         2.5500 (MMM         MADE         Second control intory         Second control intory <t< td=""><td>WERE</td><td>'BROWN COUNTY 115KV'</td><td></td><td>4.3</td><td>-0.29902</td><td>WERE</td><td>'HUTCHINSON ENERGY CENTER 115KV'</td><td>120 0.03507</td><td>-0.33409</td><td>3</td></t<>	WERE	'BROWN COUNTY 115KV'		4.3	-0.29902	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120 0.03507	-0.33409	3
							JEFFREY ENERGY CENTER 230KV		-0.35606	3
NAME         TEOME LANS         TEOME LANS <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>SMOKEY HILLS 34KV</td> <td>50 0.03745</td> <td>-0.33647</td> <td>3</td>							SMOKEY HILLS 34KV	50 0.03745	-0.33647	3
	WERE	'BROWN COUNTY 115KV'		4.3	-0.29902	WERE	'TECUMSEH ENERGY CENTER 115KV'	110.092 0.06035	-0.35937	3
Work         BOUTH STYLE INDY         Int BOUT         TO AUTH PROPONDING THEN THAN 110 BUT AUTHORS         Int BOUT AUTHORS         A 3000           WORK CONTY THANY         4.1         2.0000         WORK CONTY THANY         4.1         2.0000         Monte CONTY THANY         1.1         1.00000         1.00000         1.0000 <td>WERE</td> <td>'SOUTH SENECA 115KV'</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	WERE	'SOUTH SENECA 115KV'								
Nome         Nome <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>										
BRONK COUNT 'I BAY         4.1         2.368         DUTY OF MULTION (1997)         PE         DOME         DUTY OF MULTION (1997)         PE         DOME         DUTY OF MULTION (1997)         PE         DUSY         DUTY OF MULTION (1997)         PE         DUSY         DUSY <thdusy< th="">         DUSY         DUSY</thdusy<>	WERE	'BROWN COUNTY 115KV'		4.3	-0.29902	WERE	'CITY OF AUGUSTA 69KV'	24.09998 0.00207	-0.30109	
NAME         BIOLING CONTY TRAV         4.1         2.360         Control and the second s										4
Network         Note (Control Titley)         4.1         2.400         Lower Description (Control Titley)         4.00         4.000         4										4
NERE         NORMAL         NUMBER         NUMBER <td>WERE</td> <td></td> <td></td> <td></td> <td>-0.29902</td> <td>WERE</td> <td></td> <td></td> <td></td> <td>4</td>	WERE				-0.29902	WERE				4
MERE         SQUID SERVEX         1100///         0.0000         PERFEC         No.2000 (PERFEC / LEW / MAIL AND	WERE									4
MADE         SQUE BESCA 1100/         11         0.4000 MSR         PULL OF DEALCOMEND 1110/         0.5         0.500 MSR           MIRE         SQUE BESCA 1100//         11         0.4000 MSR         PULL OF DEALCOMEND 1100/         0.500 MSR         0.500 MSR           MIRE         SQUE BESCA 1100//         11         0.4000 MSR         0.500 MSR         0.500 MSR         0.500 MSR           MIRE         SQUE BESCA 1100//         11         0.4000 MSR         0.500 MSR </td <td></td>										
MADE         Spont Special Instruct         Instructure         Instructure         Spont Special Instructure         <	WERE						BPU - CITY OF MCPHERSON 115KV			4
MEE         Solit Back A 199/         15         2000 PMEE         Unit Description         450         2000 PMEE           MEE         Solit Back A 199/         15         2000 PMEE         Wark A 199/         17         0.000 PMEE         0.001 PMEE	WERE	'SOUTH SENECA 115KV'		15	-0.26999	WERE	'CITY OF MULVANE 69KV'	3.791 0.00831	-0.2783	4
MEDE         South SSACA 1997         15         - 2009 MME         Multiple Mark 1997         02         0.2007         - 4.200           MEL         SOUTH SSACA 1997         10         - 2009 MME         WAC 1997         10         0.001         - 4.200           MEL         SOUTH SSACA 1997         10         - 2009 MME         WAC 1997         10         0.001         - 4.000           MEL         SOUTH SSACA 1997         0.001         -0.001         WAC 1997         10         0.001         -0.001         -0.001         -0.001         -0.001         -0.001         0.001         -0.001	WERE						'EVANS ENERGY CENTER 138KV'			
HTML         Non-Product 160*         6.1         2.000 PMR         Non-Product Number Num	WERE									
Bits         Bits <th< td=""><td>WERE</td><td>'SOUTH SENECA 115KV'</td><td></td><td>15</td><td>-0.26999</td><td>WERE</td><td>'SMOKEY HILLS 34KV'</td><td>50 0.03745</td><td>-0.30744</td><td>4</td></th<>	WERE	'SOUTH SENECA 115KV'		15	-0.26999	WERE	'SMOKEY HILLS 34KV'	50 0.03745	-0.30744	4
HERL         Operational How         4.65         4.048         Feature How         19.4645         0.102         4.355           MEA         SEEDAGAT HOW         6.65         4.2445         Hern         Hern         10.051         Additional Horn         10.021         4.355           MEA         SEEDAGAT HOW         6.65         4.2446         HERN         HOUSE         14.6         6.177         4.355           MEA         SEEDAGAT HOW         6.65         4.2446         HERN         HOUSE         14.6         4.055         4.0456           MEA         SEEDAGAT HOW         6.05         4.2446         HERN         HOUSE         14.055         4.0456         HERN         14.055         HERN         HERN         14.055         HERN         HERN         HERN         HERN         HERN         HERN         HERN         HERN         HER	WERE									4
METL         OTHER LAT 118V         18         0.1011 MORT 106V         19         0.0021 MORT 106V         10         0.0013 MORT 106V         0.0013 MORT 106V	WEPL WEPL	GREENLEAF 115KV			-0.12416 -0.12416	WEPL	JUDSON LARGE 115KV	100 0.01122 18.46434 0.01122	-0.13538	8
UNDER.         UNDER.LSP 118V/         A.D.S.         A.D.S.S.         A.D.S.         A.D.S.	WEPL	'GREENLEAF 115KV'		8.05	-0.12416	WEPL	'NORTH WEST GREAT BEND 115KV'	3.75 0.02068	-0.14484	8
MEEL         OPERAGE         ISSN         0.012         0.0158         0.0058	WEPL						PLAINVILLE 115KV			8
DIRE         DIRECT TISSY         8.86         Class DRF         DECIT TISSY         2.82064         0.0121         0.1102           MER         CULPTON TISSY         TO         0.8337         DECIT TISSY         3.10         0.000         0.1005           MER         CULPTON TISSY         TO         0.8337         DECIT TISSY         1.000         0.0112         0.0000           MER         CULPTON TISSY         TO         0.8337         DECIT TISSY         1.0000         0.0112         0.0000           MER         CULPTON TISSY         TO         0.8337         DECIT TISSY         1.0000         0.0112         0.0000           MER         CULPTON TISSY         TO         0.0000         DECIT TISSY         0.0000         0.0118         0.0000         0.0118         0.0000         0.0118         0.0000         0.0118         0.0000	WEPL									8
MPL         CUTTON 196V         70         0.0332 (VPL         PLANVILE 198V         6.2         0.0401         0.0405           VPL         CUTTON 196V         70         0.0321 (VPL         0.0401 (VPL         10.0401         0.0405           VPL         CUTTON 196V         70         0.04321 (VPL         10.0401 (VPL         10.0401         0.0405           VPL         CUTTON 196V         70         0.04321 (VPL         10.0401 (VPL         10.0401 (VPL         0.0403           VPL         CUTTON 196V         70         0.04321 (VPL         10.0401 (VPL         10.0401 (VPL         0.0401 (VPL         10.0401 (VPL         10.0401 (VPL         0.0401 (VPL         10.0401 (VPL         0.0401 (VPL         10.0401 (VPL         0.0401 (VPL         10.0401 (VPL         10.0401 (VPL         0.0401 (VPL         10.0401 (VPL         0.0401 (VPL         10.0401 (VPL         10.0401 (VPL         10.0401 (VPL         10.0401 (VPL         0.0401 (VPL         10.0401 (VPL         10.04	WEPL				-0.12416	WEPL	'BELOIT 115KV'	5.250004 -0.01213	-0.11203	10
WRL         CLIPTON INSV         76         OABST VERT         UNAR COLLEY MARK         UNAR COLLEY MARK <td>WEPL</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	WEPL									
WHE         CLIFICN LINK         TO         ORDER         LDECKLARGE TISKY         TIRKY         TIRKY         DiskY         Output           WHE         CLIFICN TIRKY         TO         ORDER         DisKY         DiskY <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>11</td>										11
MEPL         CLUTON 155V         TO         0.00221 (MSL         Mark         Mark         0.0121 (MSL         0.0021 (MSL <th0.0021 (msl<="" th="">         0.0021 (MSL</th0.0021>	WEPL									12
WREE         CETTY GBV         35         6.0233         VERE         FFREE PERFECT CENTR MAY         194         0.0242         -0.0447           MEE         CETTY GBV         35         -0.0233         VERE         FFREE VERENCY CENTR MAY         194         0.0233         -0.0233         VERE         FFREE VERENCY CENTR MAY         194         0.0023         -0.0233         VERE         FFREE VERENCY CENTR MAY         194         0.0023         -0.0231         VERE         FFREE VERENCY CENTR MAY         194         0.0023         -0.0261         VERE         FFREE VERENCY CENTR MAY         194         0.002										12
MERE         DET/Y BBY         Decay IMPR         TECAMPENT INSPREY CENTRE 1:90 <sup>-//</sup> 110.020         0.0000         0.0000           MERE         CHANDY E BW         4.372         0.0001         INFER         FERRY ENERGY CENTRE 1:80 <sup>-//</sup> 64.1000         0.0000         0										12
WERE         CHY VERV         93         6.0237 MERE         DEFREY VERKY CENTR 200V         468         0.03704         6.0897           WEE         CHAUTE BOAY         45.72         0.0237 MERE         DEFREY VERKY CENTR 200V         62.1         0.0224         0.00374           WEE         CHY OF FREDONA 69V         10.244         0.0037 MERE         DEFREY VERKY CENTR 36V         62.1         0.0024         0.00374           WEE         CHY OF FREDONA 69V         10.244         0.0037 MERE         DEFREY VERKY CENTR 36V         62.1         0.0024         0.00374           WEE         CHY OF FREDONA 69V         10.244         0.0037 MERE         DEFREY VERKY CENTR 36V         62.1         0.0024 <td< td=""><td></td><td></td><td></td><td></td><td>-0.00233</td><td>WERE</td><td></td><td></td><td></td><td>18</td></td<>					-0.00233	WERE				18
WERE         CITY OF FREE         GRV X         24.51         0.00571         MERE         LEFTREY FREENCY CENTER, 346/Y         95.4         0.00224         0.00581           WERE         CITY OF FREE GRV         10.24         0.0051         MERE         LEFTREY FREENCY CENTER, 346/Y         10.24         0.00524         0.0051         MERE         LEFTREY FREENCY CENTER, 346/Y         10.24         0.00524         0.0051         MERE         LEFTREY FREENCY CENTER, 346/Y         10.24         0.00524         0.00534         0.0051         MERE         LEFTREY FREENCY CENTER, 346/Y         10.24         0.00524         0.00531         0.0052         0.00524         0.00531         0.0052         0.00524         0.00531         0.0052         0.00524         0.00531         0.0052         0.00524         0.00531         0.0052         0.00524         0.00531         0.0054         0.0052         0.00542         0.00531         0.0054         0.0052         0.00541         0.0053         0.0541         0.00531         0.0054         0.0052         0.0564         0.0052         0.0554         0.05541         0.00531         0.0564         0.05531         0.05641         0.0052         0.05531         0.05641         0.0052         0.05531         0.05641         0.00531         0.00531	WERE	'GETTY 69KV'		35	-0.00233	WERE	'JEFFREY ENERGY CENTER 230KV'	486 0.05704	-0.05937	19
WERE         CITY OF FREDONA. 69KV         10.244         0.0051 WERE         LIFFREY VERRY CENTRE 346KV         60.8224         0.0074           WERE         CITY OF FREDONA. 69KV         10.21         0.0051 WERE         LIFFREY VERRY CENTRE 345KV         106.2         0.0052         0.0051           WERE         CITY OF FREDONA. 69KV         10.21         0.0051 WERE         LIFFREY VERRY CENTRE 345KV         106.2         0.0052         0.0051           WERE         CITY OF WIRELD 65KV         3.464         0.0052         0.0051         0.0052         0.0052         0.0052         0.0052         0.0052         0.0052         0.0052         0.0052         0.0052         0.0052         0.0052         0.0052         0.0052         0.0052         0.0052         0.0052         0.0052         0.0052         0.0054         0.0052         0.0054         0.0052         0.0054         0.0052         0.0054         0.0052         0.0054         0.0052         0.0054         0.0052         0.0054         0.0052         0.0054         0.0052         0.0054         0.0052         0.0054         0.0052         0.0054         0.0052         0.0054         0.0052         0.0054         0.0052         0.0052         0.0054         0.0052         0.0052         0.0053         <	WERE									20
WERE         CITY OF FREDOMA 086V         10.244         0.0557         WERE         TECHNER MARK         1104V         11082         0.0608         0.06018           WERE         CITY OF FREDOMA D86V         3.21         0.0685         WERE         CITY OF WARFELD 06WV         3.42         0.0685         WERE         CITY OF WARFELD 06WV         3.44         0.0685         WERE         CITY OF WARFELD 06WV         3.42         0.0585         WERE         CITY OF WARFELD 06WV         3.21         0.0501         WERE         TOTO 0F IDA 66WV         3.21         0.0501         WERE         TOTO 0F IDA 66WV         3.23         0.0501         WERE         TOTO 0F IDA 66WV         11.060         0.0501         WERE         TOTO 0F IDA 66WV         11.060         0.0501         WERE         WERE TECLNERM 36WV         11.060         0.05021         WERE         WERE         WERE TECLNERM 36WV         11.060         0.05021         WERE         WERE TECLNERM 36WV         11.00         0.05021         WERE TECLNERM 36WV         11.00										20 20
WERE         CITY OF IOLA 68/V         22.063         0.0061 HWRE         JEFREY TRENCY CENTER 36/V         62.4         0.0021         0.0023         0.0024         0.0023         0.0024         0.0023         0.0024         0.0023         0.0024         0.0023         0.0024         0.0023         0.0024         0.0023         0.0024	WERE	'CITY OF FREDONIA 69KV'		10.294	0.0052	WERE	'TECUMSEH ENERGY CENTER 115KV'	110.092 0.06035	-0.05515	20
WERE         CITY OF NUMFIELD BRAY         44.86         0.00889         WERE         UFFREY TERR SAFKY         624         0.00233         0.00234 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>20</td>										20
WREE         NEOSHO ENROY CENTER 138Y         47         0.0037         WREE         UTWO ENROY CENTER 138Y         0.0037         WREE           CHAUTE GAV         4.53         0.0057         WREE         TECUMASE HENRY CENTER 118Y         110.022         0.00533         0.00421           WREE         CITY OF EDR. (0X/V)         2.035         0.0057         WREE         TECUMASE HENRY CENTER 118Y         110.022         0.00533         0.00421           WREE         CITY OF LAG AGKY         2.0351         0.0061         WREE         TECUMASE HENRY CENTER 138Y         110.022         0.00534         0.00540           WREE         CITY OF MALVAKE GAVY         13.99         0.00631         WREE         TECUMASE HENRY CENTER 346Y         10.922         0.00534         0.00540           WREE         CITY OF MALVAKE GAVY         13.99         0.00631         WREE         TECUMASE HENRY CENTER 346Y         10.922         0.00534         0.00540           WREE         CITY OF MALVAKE GAVY         13.99         0.00631         WREE         TETRY ENROY CENTER 346Y         10.40         0.0054         0.0051         0.0053         WREE         CITY OF FREE 0.0074         40.00741         0.0051         0.0051         WREE         CITY OF GREE 60KY         16.9007         0.0053 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>20</td>										20
WERE         CITY OF ERE BRV         28.51         0.0073         WERE         CITY OF CARAD BRV         11.002         0.00638         0.06403         0.06403         0.06403         0.06403         0.06403         0.06403         0.06403         0.0643 </td <td>WERE</td> <td></td> <td></td> <td>47</td> <td>0.00637</td> <td>WERE</td> <td>'JEFFREY ENERGY CENTER 345KV'</td> <td>924 0.06224</td> <td>-0.05587</td> <td>20</td>	WERE			47	0.00637	WERE	'JEFFREY ENERGY CENTER 345KV'	924 0.06224	-0.05587	20
WERE         CITY OF GIRAD 68V         9.21         0.00053         WERE         TCLUMSEN INSKY         11002         0.0053         0.054           WERE         CITY OF MAL MAKE 68K/         2308         0.00041         WERE         TECLUMSEN INSKY         11002         0.00033         0.054           WERE         CITY OF MAL MAKE 69K/         11990         0.00031         WERE         TECLUMSEN INSKY         1002         0.00033         0.00031           WERE         CILL ENERGY CENTER 69K/         11990         0.00031         WERE         LEFFREY ENERGY CENTER 345K/         1002         0.00031         0.00031           WERE         VALUE NERGY CENTER 69K/         110         0.00017         WERE         UEFFREY ENERGY CENTER 345K/         40.00031         0.00031           WERE         CITY OF GIRAD 69K/         48.10         0.00071         WERE         UEFFREY ENERGY CENTER 135K/         140.00031         0.00031         WERE         UTY OF GIRAD 69K/         20.01         0.00014         WERE         UTY OF GIRAD 69K/         20.01         0.00031         WERE         UTY OF GIRAD 69K/         20.01         0.00014         WERE         UTY OF GIRAD 69K/         11990         0.00031         WERE         WERE         UTY OF MULLANE 69K/         11990         0.00										21
WRFE         CITY OF IQLA 89V         23.063         0.00541         WRFE         TCLUMSEN HENROY CENTER 118V/         110.082         0.0053         0.05421           WRFE         CITY OF WILLAME SERV         34.68         0.00680         WRFE         WRFE         110.07         110.07         0.0053         0.05421           WRFE         CILL CHRVO CENTER 138V         17.09         0.0053         WRFE         2.FFREV VERSY CENTER 118V/         110.02         0.0053         0.05421           WRFE         CILL CHRVO CENTER 138V/         17         0.0053         WRFE         2.FFREV VERSY CENTER 118V/         100.022         0.00534         0.00531           WRFE         CILL CHRVO CENTER 138V/         47         0.00537         WRFE         UFFREV VERSY CENTER 118V/         101.022         0.00534         0.05131           WRFE         CITY OF FERDONIA 68V/         10.24         0.00527         WRFE         UFFREV VERSY CENTER 130V/         486         0.0574         0.00561           WRFE         CITY OF GRAAD 68V/         2.1         0.0033         WRFE         UFFREV VERSY CENTER 130V/         486         0.0574         0.00561           WRFE         CITY OF GRAAD 68V/         2.1         0.0033         WRFE         UFFREV VERSY CENTER 130V/	WERE	CITY OF ERIE 69KV								21 21
WERE         CITY OF WINFELD 68K/         34.68         0.00889         WERE         TECUMSEN ENERGY CENTER 136K/         110.022         0.06035         0.05246           WERE         GILL ENERGY CENTER 136K/         119.0094         WERE         UEFREY ENERGY CENTER 35K/         524         0.0524	WERE	'CITY OF IOLA 69KV'		23.063	0.00614	WERE	'TECUMSEH ENERGY CENTER 115KV'	110.092 0.06035	-0.05421	21
WERE         GLL ENERGY CENTER 138V         17.9999         0.0038         URER         UEFREV ENERGY CENTER 348V         924         0.00224         0.0224           WERE         CHANDROY CENTER 138V         118         0.00637         WERE         UEFREV ENERGY CENTER 138V         924         0.0023         0.0531           WERE         CHANDRE 6MV         4572         0.00537         WERE         UEFREV ENERGY CENTER 138V         40622         0.00531           WERE         CHANDRE 6MV         4572         0.00537         WERE         UEFREV ENERGY CENTER 138V         4060         0.0571         0.0511           WERE         CITY OF FREDONA 6MV         923         0.0052         WERE         UEFREV ENERGY CENTER 230K/         466         0.05704         0.05904           WERE         CITY OF FREDONA 6MV         11.980         0.00581         WERE         UEFREV ENERGY CENTER 230K/         466         0.05704         0.05904           WERE         CITY OF MULVANE 6MV         11.980         0.00681         WERE         UEFREV ENERGY CENTER 230K/         466         0.05704         0.0514           WERE         CITY OF MULVANE 6MV         11.999         0.00531         WERE         UEFREV ENERGY CENTER 230K/         466         0.05704         0.0514 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-0.05393</td> <td>21</td>									-0.05393	21
WERE         GLL ENERGY CENTER 49KV         118         0.00914         WERE         LEFFREY ENERGY CENTER 349KV         994         0.00224         -0.0531           WERE         CLMAUTE 69KV         45.72         0.00637         WERE         TECMISHE NERKOY CENTER 139KV         46.6         0.05704         0.05131           WERE         CLTY OF FREE 69KV         46.5         0.00627         WERE         LEFFREY ENERGY CENTER 230KV         46.6         0.05704         0.05131           WERE         CLTY OF FREE 69KV         10.244         0.00627         WERE         LEFFREY ENERGY CENTER 230KV         46.6         0.05704         0.05131           WERE         CLTY OF FREE 69KV         10.294         0.0022         WERE         LEFFREY ENERGY CENTER 230KV         46.6         0.05704         0.05131           WERE         CLTY OF MULANNE 69KV         11.990         0.00031         WERE         LEFFREY ENERGY CENTER 130KV         110.022         0.00035         0.0224         0.02514         12.5           WERE         CLTY OF MULANNE 69KV         11.990         0.00031         WERE         LEFFREY ENERGY CENTER 130KV         10.022         0.00035         0.02514         12.5           WERE         GLT NOF MULANNE 69KV         11.890         0.00031	WERE						JEFFREY ENERGY CENTER 345KV			21
WERE         CHANUTE 69V         45.72         0.00531 WERE         JEFFREY ENERGY CENTER 230V         4486         0.05704         0.05131           WERE         CITY OF FRIE 69V         26.55         0.06531 WERE         JEFFREY ENERGY CENTER 230V         4486         0.05704         0.05144           WERE         CITY OF FRIE 69V         4.01         0.0524         0.05531 WERE         JEFFREY ENERGY CENTER 230V         448         0.05704         0.05144           WERE         CITY OF FRIE 69KV         4.01         0.0503         0.05204         0.05144         0.0503         0.05204           WERE         CITY OF CHALL AND ESKY         4.04         0.0503         0.05204         0.0516         0.05164         0.0505         0.05204         0.0516         0.0506         0.05204         0.0516         0.0506         0.05204         0.0516         0.0506         0.05204         0.0516         0.0506         0.05204         0.0516         0.0506         0.05204         0.0516         0.05074         0.0515         0.0573         WERE         TECMASE HENERGY CENTER 138V         1.0520         0.0503         0.0516         0.05071         WERE         TECMASE HENERGY CENTER 138V         1.0520         0.0503         0.0503         0.05161         UEFFREY ENERGY CENTER 138V	WERE	'GILL ENERGY CENTER 69KV'		118	0.00914	WERE	'JEFFREY ENERGY CENTER 345KV'	924 0.06224	-0.0531	21
WERE         CITY OF ERIE 09KV         26.53         0.00571 WERE         UJEFREY ENERGY CENTER 20KV         486         0.05704         0.05114         1           WERE         CITY OF FREDONA 09KV         9.21         0.0052 WERE         UJEFREY ENERGY CENTER 20KV         486         0.05704         0.05054           WERE         CITY OF FOLA 69KV         23.03         0.00614 WERE         UJEFREY ENERGY CENTER 20KV         486         0.05704         0.05059           WERE         CITY OF MULANE 69KV         11.999         0.0081 WERE         TECUMSEN ENERGY CENTER 19KV         486         0.05704         0.00635         -0.05204           WERE         CITY OF MULANE 69KV         34.68         0.00689 WERE         TECUMSEN ENERGY CENTER 19KV         486         0.05704         -0.06215           WERE         CUTY OF MULANE 69KV         1398         0.0016         UJEFREY ENERGY CENTER 19KV         110.002         0.00224         -0.05714         -0.05										21 22
WERE         CITY OF FREDONIA 69KV         10.244         0.0052 (WERE         UJEFREY ENERGY CENTER 230KV         4480         0.05704         0.00509         2           WERE         CITY OF GIARAD 69KV         2.2.1         0.00635 (WERE         UJEFREY ENERGY CENTER 230KV         4480         0.05704         0.00509         2           WERE         CITY OF MUL VARE 69KV         2.2.063         0.00631 (WERE         UJEFREY ENERGY CENTER 230KV         4480         0.05704         0.00530         0.05204         2           WERE         CITY OF MUL VARE 69KV         3.4.68         0.00698 (WERE         UJEFREY ENERGY CENTER 136KV         480         0.05704         0.00535         0.05204         2           WERE         GILL ENERGY CENTER 138KV         17.99999         0.00936 (WERE         UJEFREY ENERGY CENTER 136KV         110.0022         0.00635         0.06121         2           WERE         GILL ENERGY CENTER 138KV         119         0.0083         WERE         LIFFREY ENERGY CENTER 230KV         4480         0.05704         -0.05651         2           WERE         CITY OF MENARE 60KY         119         0.0083         WERE         LIFFREY ENERGY CENTER 136KV         460         0.05704         -0.0565         2         0.05734         0.0665         2         <	WERE									22
WERE         CITY OF IOLA 68KV         23.063         0.0081  WERE         USEFREY ENERGY CENTER 136KV         1466         0.05704         0.05704         0.05704           WERE         CITY OF MULVANE 66KV         34.68         0.00831  WERE         USEFREY ENERGY CENTER 136KV         1466         0.05704         0.05704         0.05704         0.05704         0.05704         0.05704         0.05704         0.05704         0.05704         0.05704         0.05704         0.05704         0.05704         0.00516         0.05704         0.05704         0.05704         0.05704         0.05704         0.05704         0.05704         0.05704         0.05704         0.05704         0.06035         0.05709         0.05704         0.0466         0.05704         0.0466         0.05704         0.0463         0.04731         0.04717         0.04781         0.04714         0.04831         0.04714         0.04831         0.04714         0.04831         0.04714         0.04831 <t< td=""><td>WERE</td><td>CITY OF FREDONIA 69KV</td><td></td><td>10.294</td><td>0.0052</td><td>WERE</td><td>'JEFFREY ENERGY CENTER 230KV'</td><td>486 0.05704</td><td>-0.05184</td><td>22</td></t<>	WERE	CITY OF FREDONIA 69KV		10.294	0.0052	WERE	'JEFFREY ENERGY CENTER 230KV'	486 0.05704	-0.05184	22
WERE         CITY OF WINFIELD 69K/V         94.68         0.00889 WERE         JEFFREY ENERGY CENTER 33K/V         46.69         0.050704         0.050716         2.050716           WERE         GILL ENERGY CENTER 138K/V         17.99998         0.00036         WERE         TECUMSEH ENERGY CENTER 115K/V         110.092         0.06035         0.05099           WERE         GILL ENERGY CENTER 69K/V         118         0.0093         WERE         TECUMSEH ENERGY CENTER 115K/V         110.092         0.06035         0.05121           WERE         INCOSHO ENERGY CENTER 138K/V         47         0.00937         WERE         JEFFREY ENERGY CENTER 115K/V         110.092         0.06035         0.05121           WERE         CITY OF MULVANE 69K/V         113         0.00037         WERE         JEFFREY ENERGY CENTER 115K/V         486         0.05704         0.04973           WERE         GLUENERGY CENTER 69K/V         118         0.00171 WERE         JEFFREY ENERGY CENTER 115K/V         110.092         0.06035         0.0473           WERE         GLUENERGY CENTER 69K/V         118         0.00171 WERE         JEFFREY ENERGY CENTER 115K/V         406         0.05704         -0.0473           WERE         GLUENERGY CENTER 69K/V         135         0.00233         WERE         JEFFREY ENERGY CENTER										
WERE         CITY OF WINFIELD 69K/V         94.68         0.00889 WERE         JEFFREY ENERGY CENTER 33K/V         46.69         0.050704         0.050716         2.050716           WERE         GILL ENERGY CENTER 138K/V         17.99998         0.00036         WERE         TECUMSEH ENERGY CENTER 115K/V         110.092         0.06035         0.05099           WERE         GILL ENERGY CENTER 69K/V         118         0.0093         WERE         TECUMSEH ENERGY CENTER 115K/V         110.092         0.06035         0.05121           WERE         INCOSHO ENERGY CENTER 138K/V         47         0.00937         WERE         JEFFREY ENERGY CENTER 115K/V         110.092         0.06035         0.05121           WERE         CITY OF MULVANE 69K/V         113         0.00037         WERE         JEFFREY ENERGY CENTER 115K/V         486         0.05704         0.04973           WERE         GLUENERGY CENTER 69K/V         118         0.00171 WERE         JEFFREY ENERGY CENTER 115K/V         110.092         0.06035         0.0473           WERE         GLUENERGY CENTER 69K/V         118         0.00171 WERE         JEFFREY ENERGY CENTER 115K/V         406         0.05704         -0.0473           WERE         GLUENERGY CENTER 69K/V         135         0.00233         WERE         JEFFREY ENERGY CENTER	WERE	CITY OF MULVANE 69KV								22
WERE         GLLE NERGY CENTER 138KV         17.9999         0.00336         WERE         TECUMSEH ENERGY CENTER 115KV         110.092         0.00035         -0.05037           WERE         NEOSHO ENERGY CENTER 138KV         47         0.00037         WERE         LIFEREY ENERGY CENTER 138KV         486         0.05704         -0.05037           WERE         CITY OF MULVANE 69KV         11.990         0.00031         WERE         LIFEREY ENERGY CENTER 138KV         486         0.05704         -0.04873           WERE         CITY OF MULVANE 69KV         11.990         0.00031         WERE         LIFEREY ENERGY CENTER 138KV         486         0.05704         -0.04873           WERE         EVANS ENERGY CENTER 138KV         313         0.0107         WERE         LIFEREY ENERGY CENTER 138KV         486         0.05704         -0.04854           WERE         GELTY 69KV         4381         0.0017         WERE         ABILENE ENERGY CENTER 138KV         400.04381         -0.04381           WERE         GETTY 69KV         436         0.05704         -0.04381         -0.04381           WERE         GETTY 69KV         436         0.05704         -0.04788         200023           WERE         GETTY 69KV         435         -0.000231         WERE	WERE	'CITY OF WINFIELD 69KV'		34.68	0.00689	WERE	JEFFREY ENERGY CENTER 230KV	486 0.05704	-0.05015	22
WERE         GILL ENERGY CENTER 198K/         110         0.00014         WERE         TECUMSEN ENERGY CENTER 118K/         110.092         0.00035         -0.05101           WERE         CITY OF MULVANE 69K/         1199         0.00031         WERE         JEFFREY ENERGY CENTER 136K/         486         0.05704         -0.04873           WERE         CITY OF MULVANE 69K/         133         0.0014         WERE         JEFFREY ENERGY CENTER 15K/K         110.092         0.00035         -0.04873           WERE         GILL ENERGY CENTER 138K/         313         0.0014         WERE         JEFFREY ENERGY CENTER 15K/K         1486         0.05704         -0.04834           WERE         GELTY 69K/         313         0.0014         WERE         JEFFREY ENERGY CENTER 15K/K         406         0.05704         -0.04814           WERE         GETTY 69K/         313         0.0017         WERE         JEFFREY ENERGY CENTER 15K/K         406         0.04704         -0.04814           WERE         GETTY 69K/         315         -0.00233         WERE         JEFFREY ENERGY CENTER 115K/K         40         0.04381         -0.04814           WERE         GETTY 69K/         35         -0.00233         WERE         SMCKPT HISK/K         40         0.04381	WERE									22
WERE         NEOSHO ENERGY CENTER 138KV         4.7         0.00837         WERE         'JEFFREY ENERGY CENTER 230KV         4466         0.05704         -0.04573           WERE         EVANS ENERGY CENTER 138KV         11.999         0.00831         WERE         'JEFFREY ENERGY CENTER 135KV         110.02         0.06035         -0.04373           WERE         EVANS ENERGY CENTER 138KV         111.8         0.0014         WERE         'JEFFREY ENERGY CENTER 230KV         466         0.05704         -0.04955           WERE         EVANS ENERGY CENTER 138KV         313         0.0101         WERE         'JEFFREY ENERGY CENTER 230KV         466         0.05704         -0.04634           WERE         'GLIT M69KV'         117.9999         0.00233         WERE         JEFFREY ENERGY CENTER 15KV         466         0.05704         -0.04768           WERE         'GLIT M69KV         17.9999         0.00233         WERE         JEFFREY ENERGY CENTER 115KV         466         0.0374         -0.04768         2           WERE         'GLIT M69KV         35         0.00233         WERE         JEFFREY ENERGY CENTER 115KV         400         0.04381         -0.0378           WERE         'GLIT M69KV         35         0.00233         WERE         SMOKEY HILS 34KV	WERE							110.092 0.06035	-0.05099	22
WERE         IEVANS ENERGY CENTER 138KV         31         0.0107         WERE         TECLUMSEH ENERGY CENTER 138KV         110.02         0.00336         0.04965           WERE         IEVANS ENERGY CENTER 138KV         131         0.0107         WERE         UEFFREY PENERGY CENTER 130KV         486         0.05704         -0.0479           WERE         ISUTY 68KV         33         0.0023         WERE         JEFFREY ENERGY CENTER 130KV         406         0.04381         -0.04634           WERE         'GELTY 68KV         35         0.00233         WERE         JEFFREY ENERGY CENTER 135KV         40         0.04381         -0.04614         2           WERE         'GELTY 68KV         35         0.00233         WERE         JEFFREY ENERGY CENTER 135KV         40         0.04781         -0.04768           WERE         'GELTY 68KV         35         0.00233         WERE         SMOKEY HILLS 34KV         115KV         40         0.04381         -0.03878         2           WERE         'CHANUTE 69KV         45.732         0.00673         WERE         ABILENE ENERGY CENTER 115KV         40         0.04381         -0.03808         2           WERE         'CITY OF FREDONIA 69KV         22.653         0.00673         WERE         ABILENE E	WERE	'NEOSHO ENERGY CENTER 138KV'		47	0.00637	WERE	'JEFFREY ENERGY CENTER 230KV'	486 0.05704	-0.05067	22
Instruction         Display		CITY OF MULVANE 69KV		11.999						23
WERE         EVANS ENERGY CENTER 138KV         31         0.0107         WERE         UEFFREY ENERGY CENTER 136KV         466         0.05704         0.04634         1           WERE         'GETTY 69KV         35         0.00233         WERE         LEFFREY ENERGY CENTER 135KV         40         0.04381         -0.04634         1           WERE         'GETTY 69KV         35         0.00233         WERE         EFFREY ENERGY CENTER 135KV         40         0.04786         0.00233           WERE         'GETTY 69KV         35         0.00233         WERE         SPU - CITY OF MCPHERSON 115KV         406         0.04781         -0.0478           WERE         'GETTY 69KV         35         0.00233         WERE         SMCACY HILS 34KV         15         0.0384         -0.03378         1           WERE         'CHANUTE 69KV         45.782         0.00673         WERE         ABILENE ENERGY CENTER 115KV         40         0.04381         -0.03808         1           WERE         'CITY OF FREDONIA 69KV         10.294         0.0052         WERE         ABILENE ENERGY CENTER 115KV         40         0.04381         -0.03808         1           WERE         'CITY OF IDLA 69KV         23.663         0.00657         WERE         ABILENE	WERE			313 118	0.0101	THEIRE	TEODINOEITEITEITOIT OEITTEIT TIOITT	110.00E 0.00000	0.01000	20
WERE         GILL ENERGY CENTER 138KV         17.9999         0.00330         WERE         UEFFREY ENERGY CENTER 230KV         446         0.05704         0.04768         1           WERE         'GETTY 69KV'         35         0.00230         WERE         'DUTY OF MCPHERSON 115KV'         135         0.0384         -0.0473         :           WERE         'GETTY 69KV'         35         0.00230         WERE         'SMOKEY HILLS 34KV'         45         0.03745         -0.03766         .         :           WERE         'CI-MANUTE 69KV'         45.53         0.00673         WERE         ABILENE ENERGY CENTER 115KV'         40         0.04381         -0.03808         :           WERE         'CITY OF FREDONIA 66KV'         22.65.3         0.00673         WERE         ABILENE ENERGY CENTER 115KV'         40         0.04381         -0.03808         :           WERE         'CITY OF FICH 66KV         23.063         0.00626         WERE         ABILENE ENERGY CENTER 115KV'         40         0.04381         -0.03861         :         WERE         'GITY 69KVA         40         0.04381         -0.03767         :         :         :         :         :         0.03574         :         :         :         :         :         0.0381	WERE	'EVANS ENERGY CENTER 138KV'		313	0.0107	WERE	'JEFFREY ENERGY CENTER 230KV'	486 0.05704	-0.04634	24
WERE         GETTY 69KV         33         0.0233         WERE         'BPU-CITY OF MCPHERSON 115KV'         135         0.0384         0.0345         0.0384         0.0384         0.0384         0.0384         0.0384         0.0384         0.0384         0.0384         0.0384         0.0384         0.0384         0.0384         0.0384         0.0384         0.0384         0.0384         0.0384         0.0384         0.0388         0.0384         0.0388         0.0384         0.0388         0.03884         0.03884         0.03884         0.03884         0.03884         0.03884         0.03884         0.03884         0.03884         0.03884         0.03884         0.03884         0.03884         0.03884         0.03886         0.03884         0.03886         0.03884         0.03886         0.03884         0.03886         0.03886         0.03884         0.03886         0.03884         0.03886         0.03884         0.03886         0.03884         0.03884         0.03886         0.03884         0.03884         0.03884         0.03884         0.03884         0.03884         0.03884         0.03884         0.03884         0.03884         0.03884         0.03861         0.0386         WERE         CITV OF INLE 0.60KV         40         0.04381         0.00367         WERE	WERE									
WERE         GETTY 69KV         35         0.0023         WERE         SMOKEY HILLS 34KV         50         0.03746         0.03761         2           WERE         CITANUTE 69KV         45 762         0.0673         WERE         ABLENE ENERGY CENTER 115KV         40         0.04381         -0.03808         2           WERE         CITY OF FREDONIA 69KV         10.294         0.0057         WERE         ABLENE ENERGY CENTER 115KV         40         0.04381         -0.03808         2           WERE         CITY OF FREDONIA 69KV         10.294         0.0052         WERE         ABLENE ENERGY CENTER 115KV         40         0.04381         -0.03806         2           WERE         CITY OF FILO A 69KV         23.063         0.00641         WERE         ABLENE ENERGY CENTER 115KV         40         0.04381         -0.039761         2           WERE         CITY OF FULA 69KV         34.68         0.00649         WERE         ABLENE ENERGY CENTER 115KV         40         0.04381         -0.03974         2           WERE         NEOSHO ENERGY CENTER 138KV         41         0.00631         WERE         ABLENE ENERGY CENTER 115KV         40         0.04381         -0.0374         2           WERE         IGLL ENERGY CENTER 138KV         11.999<										
WERE         CHANUTE 69KV         45,782         0.00573         WERE         KallENE ENERGY CENTER 115KV         40         0.04381         -0.03086           WERE         CITY OF FREDONIA 69KV         10.294         0.00573         WERE         KallENE ENERGY CENTER 115KV         40         0.04381         -0.03086           WERE         CITY OF FREDONIA 69KV         10.294         0.00573         WERE         KallENE ENERGY CENTER 115KV         40         0.04381         -0.030861           WERE         CITY OF IVA 6FLOL 69KV         23.063         0.00614         WERE         KallENE ENERGY CENTER 115KV         40         0.04381         -0.03067           WERE         CITY OF WINFELD 69KV         36.80         0.00689         WERE         KallENE ENERGY CENTER 115KV         40         0.04381         -0.03607         =           WERE         'NEOSHO ENERGY CENTER 138KV         47         0.00831         WERE         KallENE ENERGY CENTER 115KV         40         0.04381         -0.03744           WERE         'NEOSHO ENERGY CENTER 138KV         11.999         0.00831         WERE         KallENE ENERGY CENTER 115KV         40         0.04381         -0.03746           WERE         'GILL ENERGY CENTER 138KV         11.999         0.00831         WERE	WERE	'GETTY 69KV'		35	-0.00233	WERE	'SMOKEY HILLS 34KV'	50 0.03745	-0.03978	28
WERE         CITY OF FREDONIA 69KV         10.294         0.0052         WERE         ABILENE ENERGY CENTER 115KV         40         0.04381         -0.03661         YERE           VERE         CITY OF IOLA 69KV         23.063         0.00614         WERE         ABILENE ENERGY CENTER 115KV         40         0.04381         -0.03671         YERE           WERE         CITY OF IOLA 69KV         36.80         0.00639         WERE         ABILENE ENERGY CENTER 115KV         40         0.04381         -0.03692         YERE           VERE         CITY OF IOLA 69KV         36         0.00639         WERE         HUTCHINSON ENERGY CENTER 115KV         40         0.04381         -0.03744         YERE           VERE         INEOSHO ENERGY CENTER 138KV         47         0.00831         WERE         ABILENE ENERGY CENTER 115KV         40         0.04381         -0.03744         YERE         OLA381         -0.03744         YERE         0.04381         -0.03744         YERE         OLA381         -0.03744         YERE         OLA381         -0.03744         YERE         OLA381         -0.03744         YERE         OLA381         -0.03745         -0.03744         YERE         YERE         YERE         YERE         YERE         YERE         YERE         YERE         <	WERE									29
WERE         CITY OF IOLA 69KV         23.063         0.00614         WERE         IABLENE ENERGY CENTER 115KV         40         0.04381         -0.03767         Stresson           WERE         CITY OF WINFELD 69KV         34.68         0.00689         WERE         IABLENE ENERGY CENTER 115KV         40         0.04381         -0.03767         Stresson           WERE         'GETTY 69KV'         35         0.0023         WERE         HUTCHINSON ENERGY CENTER 115KV         40         0.04381         -0.03744         Stresson         -0.03744         Stresson         -0.03607         -0.03744         Stresson         -0.03561         -0.03744         Stresson         -0.03561         -0.03744         Stresson         -0.03561         Stresson         -0.03481         -0.03467         -0.03467         -0.03451         -0.03451         -0.03451 </td <td></td> <td>CITY OF ERIE 69KV</td> <td></td> <td></td> <td></td> <td></td> <td>ABILENE ENERGY CENTER 115KV ABILENE ENERGY CENTER 115KV</td> <td></td> <td></td> <td>29 29</td>		CITY OF ERIE 69KV					ABILENE ENERGY CENTER 115KV ABILENE ENERGY CENTER 115KV			29 29
WERE         'GETTY 69KV'         100         0.0323         WERE         'HUTCHINSON ENERGY CENTER 115KV'         120         0.03507         -0.0374           WERE         'NEOSHO ENERGY CENTER 138KV'         47         0.06837         WERE         ABILENE ENERGY CENTER 115KV'         40         0.04361         -0.03744         0           WERE         'CITY OF MULVANE 69KV'         11.999         0.00831         WERE         ABILENE ENERGY CENTER 115KV'         40         0.04381         -0.0356         0           WERE         'GILL ENERGY CENTER 69KV'         11.999         0.00831         WERE         ABILENE ENERGY CENTER 115KV'         40         0.04381         -0.03467           WERE         'GILL ENERGY CENTER 69KV'         17.99999         0.00836         WERE         'ABILENE ENERGY CENTER 115KV'         40         0.04381         -0.03467           WERE         'CHANUTE 69KV'         17.99999         0.00873         WERE         'BPU - CITY OF MCPHERSON 115KV'         135         0.0384         -0.03267           WERE         'CHANUTE 69KV'         26.53         0.00673         WERE         'BU- CITY OF MCPHERSON 115KV'         135         0.0384         -0.03267           WERE         'CHANUTE 69KV'         23.53         0.00673         WERE	WERE	'CITY OF IOLA 69KV'			0.00614	WERE	'ABILENE ENERGY CENTER 115KV'	40 0.04381	-0.03767	30
WERE         INEOSHO ENERGY CENTER 138KV'         47         0.00837         WERE         IABILENE ENERGY CENTER 115KV'         40         0.04381         -0.03744         5           WERE         CITV OF MULVANE 69KV'         11.999         0.00831 WERE         IABILENE ENERGY CENTER 115KV'         40         0.04381         -0.0354         IVERE         IABILENE ENERGY CENTER 115KV'         40         0.04381         -0.0346         IVERE         IABILENE ENERGY CENTER 115KV'         40         0.04381         -0.0346         IVERE         IABILENE ENERGY CENTER 115KV'         40         0.04381         -0.03267         IVERE         IVERE         IABILENE ENERGY CENTER 115KV'         40         0.0348         IVERE         IVERE         IVENTER 115KV         40         0.04381         -0.03267         IVERE         IVERE         IVENTER 115KV         43         0.03267         IVERE         IVERE         IVERE         IVENTER 115KV         43         0.03267         IVERE         IVERE         IVENTY OF MICHTER 115KV         40	WERE									30
WERE         CITY OF MULVANE 69KV         11.99         0.00831         WERE         ABILENE ENERGY CENTER 115KV         40         0.04381         -0.0355         :           WERE         'GILL ENERGY CENTER 69KV'         118         0.0091         WERE         ABILENE ENERGY CENTER 115KV'         40         0.04381         -0.0355         :           WERE         'GILL ENERGY CENTER 138KV'         17.9999         0.00930         WERE         /ABILENE ENERGY CENTER 115KV'         40         0.04381         -0.03445         :           WERE         'CHANUTE 69KV'         45.782         0.00573         WERE         'PU - CITY OF MCPHERSON 115KV'         135         0.0384         -0.03267         :           WERE         'CHANUTE 69KV'         25.63         0.00573         WERE         'PU - CITY OF MCPHERSON 115KV'         135         0.0384         -0.03267         :           WERE         'CHANUTE 69KV'         25.63         0.00673         WERE         'BU- CITY OF MCPHERSON 115KV'         135         0.0384         -0.03267         :           WERE         'CHANUTE 69KV         31         0.0107         WERE         'BU- CITY OF MCPHERSON 115KV'         135         0.03246         -0.03211         :           WERE         'CHANUTE 69KV		'GETTY 69KV' 'NEOSHO ENERGY CENTER 138KV'					HUTCHINSON ENERGY CENTER 115KV ABILENE ENERGY CENTER 115KV			
WERE         GILL ENERGY CENTER 69KV         118         0.00914         WERE         ABILENE ENERGY CENTER 115KV         40         0.04381         -0.03467         ::           WERE         GILL ENERGY CENTER 138KV         17.99999         0.00830         WERE         ABILENE ENERGY CENTER 115KV         40         0.04381         -0.03467         ::           WERE         CHANUTE 69KV         45.782         0.00873         WERE         TPU- CITY OF MCPHERSON 115KV'         135         0.0384         -0.03267         ::           WERE         CHANUTE 69KV         25.3         0.00573         WERE         BPU- CITY OF MCPHERSON 115KV'         135         0.0384         -0.03267         ::           WERE         CVANS ENERGY CENTER 138KV         313         0.010'         WERE         BPU- CITY OF MCPHERSON 115KV'         135         0.0384         -0.03267         ::           WERE         CVANS ENERGY CENTER 138KV         313         0.010'         WERE         ABILENE ENERGY CENTER 115KV         40         0.04381         -0.03267         ::           WERE         CHANTE 69KV         45.782         0.00673         WERE         SMOKEY HILLS 34KV'         50         0.03746         -0.03172         ::           WERE         CITY OF FILE 66KV' <td>WERE</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>'ABILENE ENERGY CENTER 115KV'</td> <td></td> <td></td> <td></td>	WERE						'ABILENE ENERGY CENTER 115KV'			
WERE         CHANUTE 69KV         45.782         0.00873         WERE         'BPU-CITY OF MCPHERSON 115KV'         135         0.0384         -0.03267         'S           WERE         CITY OF ENE 66V'         26.63         0.00673         WERE         'BPU-CITY OF MCPHERSON 115KV'         135         0.0384         -0.03267         'S           WERE         'EVANS ENERGY CENTER 138KV'         313         0.0107         WERE         'BPU-CITY OF MCPHERSON 115KV'         40         0.04381         -0.03311         'S           WERE         'CHANUTE 69KV         45.782         0.00673         WERE         'SMOKEY HILLS 34KV'         50         0.03745         -0.03172         'S           WERE         'CITY OF FILE 66KV'         26.53         0.00673         WERE         'SMOKEY HILLS 34KV'         50         0.03745         -0.03172         'S           WERE         'CITY OF FILE 66KV'         26.53         0.00673         WERE         'SMOKEY HILLS 34KV'         50         0.03745         -0.03172         'S           WERE         'CITY OF FILE 66KV'         26.53         0.00673         WERE         'SMOKEY HILLS 34KV'         50         0.03745         -0.03172         'S           WERE         'CITY OF FILE 66KV'         26.33	WERE	'GILL ENERGY CENTER 69KV'		118	0.00914	WERE	'ABILENE ENERGY CENTER 115KV'	40 0.04381	-0.03467	32
WERE         CITY OF ERIE         69KV'         26.53         0.00873         WERE         19U - CITY OF MCPHERSON 115KV'         135         0.0384         -0.03267         CI           WERE         'EVANS ENERGY CENTER 138KV'         313         0.0107         WERE         ABILENE ENERGY CENTER 115KV'         40         0.04381         -0.03311         CI           WERE         'CHANUTE 69KV'         45.782         0.00673         WERE         'SMOKEY HILLS         34KV'         50         0.03745         -0.03172         CI           WERE         'CITY OF ERIE 69KV'         28.63         0.00673         WERE         'SMOKEY HILLS         34KV'         50         0.03745         -0.03172         CI           WERE         'CITY OF ERIE 69KV'         28.63         0.00673         WERE         'SMOKEY HILLS         34KV'         50         0.03745         -0.03172         CI           WERE         'CITY OF FILE 69KV'         28.063         0.00673         WERE         'SMOKEY HILLS         34KV'         50         0.03745         -0.03172         CI           WERE         'CITY OF FILE 69KV'         23.063         0.00614         WERE         'BU - CITY OF MCPHERSON 115KV'         135         0.0384         -0.03226         CI										
WERE         EVANS_ENERGY CENTER 138KV         31         0.0107         WERE         IABILENE ENERGY CENTER 115KV         40         0.04381         0.0311         0.00311         0.	WERE									
WERE         CITY OF ERIE 68KV'         28.63         0.00873         WERE         'SMOKEY HILLS 34KV'         50         0.03745         -0.03172         CITY OF IOLA 69KV'         135         0.0384         -0.03226         CITY OF IOLA 69KV'         135         0.0384	WERE	'EVANS ENERGY CENTER 138KV'		313	0.0107	WERE	'ABILENE ENERGY CENTER 115KV'	40 0.04381	-0.03311	34
WERE CITY OF IOLA 69KV' 23.063 0.00614 WERE BPU - CITY OF MCPHERSON 115KV' 135 0.0384 -0.03226 3										
Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.	WERE						'BPU - CITY OF MCPHERSON 115KV'			
	Maximum Decremen	t and Maximum Increment were determine from the Souce and	Sink Operatin							

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

Upgrade:	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115k	V CKT 1
Limiting Facility:	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115k	(V CKT 1
Direction:	To->From	
Line Outage:	HOYT - STRANGER CREEK 345KV CKT 1	
Flowgate:	57152571651567655677211308WP	
Date Redispatch Needed:	Starting 2008 12/1 - 4/1 Until EOC	
Season Flowgate Identified:	2008 Winter Peak	
		Aggregate Relief
Reservation	Relief Amount	Amount
1034589	0.3	1.1

		Maximum		Sink Control		Maximum			Redispate
rce Control Area	Source 'HOLTON 115KV'	Increment(MW) 19.8	GSF -0.64999	Area	Sink 'CHANUTE 69KV'	Decrement(MW) 34.903	GSF 0.00572	Factor -0.6557	Amount (I
E	'HOLTON 115KV'	19.8			'CITY OF AUGUSTA 69KV'	24.3	0.0021		
E	'HOLTON 115KV'	19.8	-0.64999		'CITY OF BURLINGTON 69KV'	10.5	0.00989		
	'HOLTON 115KV' 'HOLTON 115KV'	19.8 19.8	-0.64999 -0.64999		'CITY OF GIRARD 69KV' 'CITY OF IOLA 69KV'	1.412	0.00635	-0.6563	
	'HOLTON 115KV'	19.8	-0.64999		CITY OF MULVANE 69KV	3.921	0.00833		
	'HOLTON 115KV'	19.8			'CITY OF WELLINGTON 69KV'	39.5			
	'HOLTON 115KV' 'HOLTON 115KV'	19.8		WERE	CITY OF WINFIELD 69KV	15.81898	0.00691		
E	HOLION 115KV HOLTON 115KV	19.8	-0.64999		'COFFEY COUNTY NO. 2 SHARPE 69KV' 'EVANS ENERGY CENTER 138KV'	19.61	0.00989		
E	HOLTON 115KV	19.8	-0.64999		JEFFREY ENERGY CENTER 230KV	486	0.05711		
E	'HOLTON 115KV'	19.8	-0.64999	WERE	'JEFFREY ENERGY CENTER 345KV'	924	0.06231	-0.712	3
E	HOLTON 115KV	19.8			'LAWRENCE ENERGY CENTER 115KV'	31.79688	0.03327		
E	'HOLTON 115KV' 'HOLTON 115KV'	19.8	-0.64999		'LAWRENCE ENERGY CENTER 230KV' 'SMOKEY HILLS 34KV'	221.2094			
	'HOLTON 115KV'	19.8	-0.64999		'TECUMSEH ENERGY CENTER 115KV'	48			
	'HOLTON 115KV'	19.8	-0.64999		'WACO 138KV'	17.414	0.00952		
	BROWN COUNTY 115KV BROWN COUNTY 115KV	4.3	-0.29891 -0.29891		JEFFREY ENERGY CENTER 230KV JEFFREY ENERGY CENTER 345KV	486	0.05711 0.06231		
E	BROWN COUNTY 115KV	4.3			'LAWRENCE ENERGY CENTER 115KV'	31.79688			
	'BROWN COUNTY 115KV'	4.3	-0.29891	WERE	'LAWRENCE ENERGY CENTER 230KV'	221.2094	0.03567	-0.3345	i8
	BROWN COUNTY 115KV	4.3	-0.29891		'SMOKEY HILLS 34KV'	50	0.03748		
	'BROWN COUNTY 115KV' 'SOUTH SENECA 115KV'	4.3			'TECUMSEH ENERGY CENTER 115KV' 'JEFFREY ENERGY CENTER 230KV'	48			
	'SOUTH SENECA 115KV'	15			JEFFREY ENERGY CENTER 345KV	924	0.06231		
	'SOUTH SENECA 115KV'	15			'TECUMSEH ENERGY CENTER 115KV'	48			
	BROWN COUNTY 115KV	4.3	-0.29891 -0.29891		CHANUTE 69KV	34.903	0.00572	-0.3046	
	BROWN COUNTY 115KV BROWN COUNTY 115KV	4.3	-0.29891		CITY OF AUGUSTA 69KV'	24.3	0.0021		
	'BROWN COUNTY 115KV'	4.3	-0.29891	WERE	'CITY OF GIRARD 69KV'	1.412	0.00635	-0.3052	6
	BROWN COUNTY 115KV	4.3			'CITY OF IOLA 69KV'	19.902	0.00613		
	BROWN COUNTY 115KV BROWN COUNTY 115KV	4.3			CITY OF MULVANE 69KV'	3.921	0.00833 0.0081		
	'BROWN COUNTY 115KV'	4.3	-0.29891	WERE	'CITY OF WINFIELD 69KV'	15.81898	0.00691	-0.3058	2
	BROWN COUNTY 115KV	4.3	-0.29891		COFFEY COUNTY NO. 2 SHARPE 69KV	19.61	0.00989	-0.308	
	BROWN COUNTY 115KV BROWN COUNTY 115KV	4.3	-0.29891 -0.29891		'EVANS ENERGY CENTER 138KV' 'WACO 138KV'	110	0.01072 0.00952		
	'SOUTH SENECA 115KV'	4.5			CHANUTE 69KV	34.903	0.00532		
	'SOUTH SENECA 115KV'	15	-0.26984	WERE	'CITY OF AUGUSTA 69KV'	24.3	0.0021	-0.2719	
	'SOUTH SENECA 115KV'	15			'CITY OF BURLINGTON 69KV'	10.5	0.00989		3
	'SOUTH SENECA 115KV' 'SOUTH SENECA 115KV'	15	-0.26984 -0.26984		CITY OF GIRARD 69KV' CITY OF IOLA 69KV'	1.412	0.00635	-0.2761	
	'SOUTH SENECA 115KV'	15			CITY OF MULVANE 69KV	3.921			
	'SOUTH SENECA 115KV'	15	-0.26984	WERE	'CITY OF WELLINGTON 69KV'	39.5	0.0081	-0.2779	14
	SOUTH SENECA 115KV	15			'CITY OF WINFIELD 69KV'	15.81898			
	'SOUTH SENECA 115KV' 'SOUTH SENECA 115KV'	15			'COFFEY COUNTY NO. 2 SHARPE 69KV' 'EVANS ENERGY CENTER 138KV'	19.61	0.00989		
	'SOUTH SENECA 115KV'	15			'LAWRENCE ENERGY CENTER 115KV'	31.79688	0.03327		
E	'SOUTH SENECA 115KV'	15			'LAWRENCE ENERGY CENTER 230KV'	221.2094			
E	SOUTH SENECA 115KV SOUTH SENECA 115KV	15			'SMOKEY HILLS 34KV' 'WACO 138KV'	50 17.414	0.03748 0.00952		
-	'GREENLEAF 115KV'	8.05			'GRAY COUNTY WIND FARM 115KV'	100	0.00332		
L	'GREENLEAF 115KV'	8.05	-0.12381	WEPL	'JUDSON LARGE 115KV'	40.65296	0.01119	-0.13	15
L	'GREENLEAF 115KV'	8.05	-0.12381		'NORTH WEST GREAT BEND 115KV'	3.75	0.0207		
L	'GREENLEAF 115KV' 'GREENLEAF 115KV'	8.05	-0.12381 -0.12381		'PLAINVILLE 115KV' 'RUSSELL 115KV'	5.25			
L	'GREENLEAF 115KV'	8.05			SPEARVILLE WIND 34KV	101			
L	'GREENLEAF 115KV'	8.05			'BELOIT 115KV'	6.250004			
L	CLIFTON 115KV CLIFTON 115KV	70			'NORTH WEST GREAT BEND 115KV' 'PLAINVILLE 115KV'	3.75	0.0207		
L	CLIFTON 115KV	70			'RUSSELL 115KV'	19.4	0.01256		
_	'CLIFTON 115KV'	70	-0.08296	WEPL	'GRAY COUNTY WIND FARM 115KV'	100	0.01119	-0.0941	5
-	'CLIFTON 115KV'	70			'JUDSON LARGE 115KV'	40.65296	0.01119		
	CLIFTON 115KV CLIFTON 115KV	70			'SPEARVILLE WIND 34KV' 'BELOIT 115KV'	6.250004			
	'GETTY 69KV'	35	-0.00230		JEFFREY ENERGY CENTER 345KV	924	0.06231		
	'GETTY 69KV'	35			'JEFFREY ENERGY CENTER 230KV'	486			
	'GETTY 69KV' 'CHANUTE 69KV'	35 45.697			'TECUMSEH ENERGY CENTER 115KV' 'JEFFREY ENERGY CENTER 345KV'	48 924			
	CHANUTE 69KV CITY OF ERIE 69KV	45.697 26.53			JEFFREY ENERGY CENTER 345KV	924			
	'CITY OF FREDONIA 69KV'	10.294	0.00521	WERE	'JEFFREY ENERGY CENTER 345KV'	924	0.06231	-0.057	'1
	CHANUTE 69KV	45.697	0.00572		'TECUMSEH ENERGY CENTER 115KV'	48			
	CITY OF ERIE 69KV' CITY OF FREDONIA 69KV'	26.53 10.294	0.00572		TECUMSEH ENERGY CENTER 115KV TECUMSEH ENERGY CENTER 115KV	48			
	CITY OF FREDONIA 69KV	9.288	0.00635		JEFFREY ENERGY CENTER 345KV	924			
	'CITY OF GIRARD 69KV'	9.288	0.00635	WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.06039	-0.0540	4
	CITY OF IOLA 69KV'	17.726			JEFFREY ENERGY CENTER 345KV	924			
	CITY OF IULA 69KV CITY OF MULVANE 69KV	17.726	0.00613		'JEFFREY ENERGY CENTER 345KV'	48 924			
	'CITY OF WINFIELD 69KV'	24.18102	0.00691	WERE	'JEFFREY ENERGY CENTER 345KV'	924	0.06231	-0.055	4
	'NEOSHO ENERGY CENTER 138KV'	67	0.00638	WERE	'JEFFREY ENERGY CENTER 345KV'	924	0.06231	-0.0559	13
	'NEOSHO ENERGY CENTER 138KV' 'CHANUTE 69KV'	67 45.697			TECUMSEH ENERGY CENTER 115KV JEFFREY ENERGY CENTER 230KV	48			
	CHANGTE 69KV	26.53		WERE	'JEFFREY ENERGY CENTER 230KV'	486		-0.0513	
	'CITY OF FREDONIA 69KV'	10.294	0.00521	WERE	'JEFFREY ENERGY CENTER 230KV'	486	0.05711	-0.051	9
	CITY OF MULVANE 69KV CITY OF WINFIELD 69KV	11.869 24.18102			TECUMSEH ENERGY CENTER 115KV' TECUMSEH ENERGY CENTER 115KV'	48		-0.0520	
	'EVANS ENERGY CENTER 138KV'	24.18102 837			JEFFREY ENERGY CENTER 115KV	48			
	'GILL ENERGY CENTER 138KV'	218	0.00938	WERE	'JEFFREY ENERGY CENTER 345KV'	924	0.06231	-0.0529	3
	'GILL ENERGY CENTER 69KV'	118	0.00916	WERE	'JEFFREY ENERGY CENTER 345KV'	924	0.06231	-0.0531	5
	GILL ENERGY CENTER 69KV	118	0.00916		TECUMSEH ENERGY CENTER 115KV JEFFREY ENERGY CENTER 230KV	48			
	CITY OF GIRARD 69KV'	9.288			JEFFREY ENERGY CENTER 230KV JEFFREY ENERGY CENTER 230KV	486			
	CITY OF MULVANE 69KV	11.869			'JEFFREY ENERGY CENTER 230KV'	486			
E	'CITY OF WINFIELD 69KV'	24.18102	0.00691	WERE	'JEFFREY ENERGY CENTER 230KV'	486	0.05711	-0.050	2
	'EVANS ENERGY CENTER 138KV'	837			TECUMSEH ENERGY CENTER 115KV TECUMSEH ENERGY CENTER 115KV	48			
	'GILL ENERGY CENTER 138KV' 'NEOSHO ENERGY CENTER 138KV'	218			'JEFFREY ENERGY CENTER 115KV' 'JEFFREY ENERGY CENTER 230KV'	48			
	'GILL ENERGY CENTER 138KV'	218	0.00938	WERE	'JEFFREY ENERGY CENTER 230KV'	486	0.05711		
	'GILL ENERGY CENTER 69KV'	118			JEFFREY ENERGY CENTER 230KV	486	0.05711		

Reservation 1034589	Relief Amount	0.3	Amount
			Aggregate Relief
Season Flowgate Identified:	2007 Fall Peak		
Date Redispatch Needed:	Starting 2007 10/1 - 12/1 Until EOC of Upgrade		
Flowgate:	57152571651567655677211407FA		
Line Outage:	HOYT - STRANGER CREEK 345KV CKT 1		
Direction:	To->From		
Limiting Facility:	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION	115	(V CKT 1
Upgrade:	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION	1115	(V CKT 1

Reservation 1034	Amount 1.1								
1034		1.1							
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Contr Area	rol Sink	Maximum Decrement(MW)	GSF I	Factor	Redispatch Amount (MW)
NERE	'HOLTON 115KV'	19.8		024 WERE	ABILENE ENERGY CENTER 115KV	4		-0.69395	Amount (WWV)
VERE	'HOLTON 115KV'	19.8		24 WERE	'HUTCHINSON ENERGY CENTER 115KV'	81.4010		-0.6852	
WERE	HOLTON 115KV HOLTON 115KV	19.8 19.8		24 WERE	JEFFREY ENERGY CENTER 230KV JEFFREY ENERGY CENTER 345KV	48		-0.70718 -0.71238	
WERE	'HOLTON 115KV'	19.8	-0.650	24 WERE	'SMOKEY HILLS 34KV'	5	0 0.03734	-0.68758	
WERE	'HOLTON 115KV' 'BROWN COUNTY 115KV'	19.8		24 WERE	'TECUMSEH ENERGY CENTER 115KV' 'ABILENE ENERGY CENTER 115KV'	10		-0.71049	
WERE	BROWN COUNTY 115KV	4.3		27 WERE	'HUTCHINSON ENERGY CENTER 115KV'	81.4010	9 0.03496	-0.33423	
WERE	BROWN COUNTY 115KV	4.3		27 WERE	'JEFFREY ENERGY CENTER 230KV'	48		-0.35621	
WERE	BROWN COUNTY 115KV BROWN COUNTY 115KV	4.3		27 WERE	'JEFFREY ENERGY CENTER 345KV' 'SMOKEY HILLS 34KV'	92		-0.36141 -0.33661	
WERE	'BROWN COUNTY 115KV'	4.3	-0.299	27 WERE	'TECUMSEH ENERGY CENTER 115KV'	10	8 0.06025	-0.35952	
WERE	'SOUTH SENECA 115KV' 'SOUTH SENECA 115KV'	15		23 WERE	ABILENE ENERGY CENTER 115KV JEFFREY ENERGY CENTER 230KV	48		-0.31394	
WERE	'SOUTH SENECA 115KV'	15		23 WERE	JEFFREY ENERGY CENTER 345KV	92		-0.33237	
NERE	'SOUTH SENECA 115KV'	15		23 WERE	'TECUMSEH ENERGY CENTER 115KV'	10		-0.33048	
WERE	BROWN COUNTY 115KV BROWN COUNTY 115KV	4.3		27 WERE	CITY OF AUGUSTA 69KV CITY OF MULVANE 69KV	24.		-0.30131 -0.30755	
WERE	'BROWN COUNTY 115KV'	4.3	-0.299	27 WERE	'CITY OF WELLINGTON 69KV'	39.	5 0.00806	-0.30733	
WERE	BROWN COUNTY 115KV BROWN COUNTY 115KV	4.3		27 WERE	CITY OF WINFIELD 69KV	6.32799		-0.30615	
WERE	BROWN COUNTY 115KV	4.3		27 WERE	'EVANS ENERGY CENTER 138KV' 'GILL ENERGY CENTER 138KV'	30		-0.30994 -0.3086	
WERE	'BROWN COUNTY 115KV'	4.3	-0.299	27 WERE	'WACO 138KV'	17.94	6 0.00947	-0.30874	
WERE	'SOUTH SENECA 115KV' 'SOUTH SENECA 115KV'	15	-0.270	23 WERE	CITY OF MULVANE 69KV' 'EVANS ENERGY CENTER 138KV'	4.89		-0.27851 -0.2809	
WERE	SOUTH SENECA 115KV	15		23 WERE	'GILL ENERGY CENTER 138KV'	15		-0.27956	
WERE	'SOUTH SENECA 115KV'	15	-0.270	23 WERE	'HUTCHINSON ENERGY CENTER 115KV'	81.4010	9 0.03496	-0.30519	-
WERE	'SOUTH SENECA 115KV' 'SOUTH SENECA 115KV'	15		23 WERE	'SMOKEY HILLS 34KV' 'WACO 138KV'	5 17.94		-0.30757 -0.2797	
WEPL	'GREENLEAF 115KV'	8.05	-0.124	34 WEPL	'NORTH WEST GREAT BEND 115KV'	3.15000	4 0.02055	-0.14489	
WEPL	'GREENLEAF 115KV'	8.05		34 WEPL	'GRAY COUNTY WIND FARM 115KV'	10 33.0397		-0.13542	
WEPL WEPL	'GREENLEAF 115KV' 'GREENLEAF 115KV'	8.05		34 WEPL	'JUDSON LARGE 115KV' 'PLAINVILLE 115KV'	33.0397		-0.13542	
WEPL	'GREENLEAF 115KV'	8.05	-0.124	34 WEPL	'RUSSELL 115KV'	19.	4 0.01204	-0.13638	
WEPL	'GREENLEAF 115KV'	8.05		34 WEPL	'SPEARVILLE WIND 34KV'	10		-0.13557	
NEPL NEPL	'GREENLEAF 115KV' 'CLIFTON 115KV'	8.05		34 WEPL	BELOIT 115KV GRAY COUNTY WIND FARM 115KV	4.8		-0.11208 -0.09461	
WEPL	'CLIFTON 115KV'	70	-0.083	53 WEPL	'JUDSON LARGE 115KV'	33.0397		-0.09461	
NEPL WEPL	CLIFTON 115KV CLIFTON 115KV	70 70		53 WEPL	'PLAINVILLE 115KV' 'RUSSELL 115KV'	5.2		-0.09953	
WEPL	CLIFTON 115KV	70		53 WEPL 53 WEPL	SPEARVILLE WIND 34KV'	10		-0.09476	
WERE	'GETTY 69KV'	35		36 WERE	'JEFFREY ENERGY CENTER 345KV'	92		-0.0645	
WERE	'GETTY 69KV' 'GETTY 69KV'	35		236 WERE 236 WERE	'JEFFREY ENERGY CENTER 115KV' 'JEFFREY ENERGY CENTER 230KV'	10		-0.06261 -0.0593	
WERE	CHANUTE 69KV	24.304		00 WERE	JEFFREY ENERGY CENTER 345KV	92		-0.0564	1
WERE	'CITY OF ERIE 69KV'	26.53		74 WERE	JEFFREY ENERGY CENTER 345KV	92		-0.0564	
WERE	CITY OF FREDONIA 69KV CITY OF GIRARD 69KV	10.294 8.909		21 WERE	JEFFREY ENERGY CENTER 345KV JEFFREY ENERGY CENTER 345KV	92		-0.05693	
WERE	'CITY OF IOLA 69KV'	13.372	0.006	15 WERE	JEFFREY ENERGY CENTER 345KV	92-	4 0.06214	-0.05599	
WERE	'NEOSHO ENERGY CENTER 138KV' 'CHANUTE 69KV'	67 24.304		39 WERE 74 WERE	JEFFREY ENERGY CENTER 345KV TECUMSEH ENERGY CENTER 115KV	92		-0.05575 -0.05451	
WERE	CHANGTE 69KV	24.304 26.53		574 WERE	TECUMSEH ENERGY CENTER 115KV	10		-0.05451	
WERE	'CITY OF FREDONIA 69KV'	10.294	0.005	21 WERE	'TECUMSEH ENERGY CENTER 115KV'	10	8 0.06025	-0.05504	1
NERE	CITY OF GIRARD 69KV' CITY OF IOLA 69KV'	8.909 13.372		37 WERE	TECUMSEH ENERGY CENTER 115KV' TECUMSEH ENERGY CENTER 115KV'	10		-0.05388 -0.0541	
WERE	CITY OF MULVANE 69KV	10.899		28 WERE	JEFFREY ENERGY CENTER 345KV	92		-0.05386	1
WERE	'CITY OF WINFIELD 69KV'	33.672		88 WERE	'JEFFREY ENERGY CENTER 345KV'	92		-0.05526	
VERE	'CITY OF WINFIELD 69KV' 'GILL ENERGY CENTER 69KV'	33.672 118	0.009	888 WERE	TECUMSEH ENERGY CENTER 115KV' JEFFREY ENERGY CENTER 345KV'	10		-0.05337 -0.05303	
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.006	39 WERE	'TECUMSEH ENERGY CENTER 115KV'	10	8 0.06025	-0.05386	
WERE	CITY OF ERIE 69KV' CITY OF FREDONIA 69KV'	26.53 10.294		21 WERE	JEFFREY ENERGY CENTER 230KV JEFFREY ENERGY CENTER 230KV	48		-0.0512	
WERE	CITY OF GIRARD 69KV	8.909		37 WERE	JEFFREY ENERGY CENTER 230KV	40	6 0.05694	-0.05057	
VERE	'CITY OF IOLA 69KV'	13.372	0.006	15 WERE	'JEFFREY ENERGY CENTER 230KV'	48	6 0.05694	-0.05079	
VERE	CITY OF MULVANE 69KV 'EVANS ENERGY CENTER 138KV'	10.899 348	0.008	28 WERE	'JEFFREY ENERGY CENTER 115KV' 'JEFFREY ENERGY CENTER 345KV'	10		-0.05197 -0.05147	
WERE	'GILL ENERGY CENTER 138KV'	17.99999	0.009	33 WERE	JEFFREY ENERGY CENTER 345KV	92	4 0.06214	-0.05281	
WERE	GILL ENERGY CENTER 138KV	17.99999		33 WERE	TECUMSEH ENERGY CENTER 115KV	10		-0.05092	
WERE	'GILL ENERGY CENTER 69KV' 'NEOSHO ENERGY CENTER 138KV'	118 67		011 WERE 039 WERE	'JEFFREY ENERGY CENTER 115KV' 'JEFFREY ENERGY CENTER 230KV'	10		-0.05114	
WERE	CITY OF MULVANE 69KV	10.899	0.008	28 WERE	'JEFFREY ENERGY CENTER 230KV'	48	6 0.05694	-0.04866	
VERE	CITY OF WINFIELD 69KV' 'EVANS ENERGY CENTER 138KV'	33.672	0.006	88 WERE	JEFFREY ENERGY CENTER 230KV TECUMSEH ENERGY CENTER 115KV	48		-0.05006	
WERE	'EVANS ENERGY CENTER 138KV'	348 348		067 WERE	JEFFREY ENERGY CENTER 115KV	48		-0.04958	
WERE	'GILL ENERGY CENTER 138KV'	17.99999	0.009	33 WERE	'JEFFREY ENERGY CENTER 230KV'	48	6 0.05694	-0.04761	
WERE	'GILL ENERGY CENTER 69KV' 'GETTY 69KV'	118		36 WERE	'JEFFREY ENERGY CENTER 230KV' 'ABILENE ENERGY CENTER 115KV'	48	6 0.05694 0 0.04371	-0.04783	
WERE	'GETTY 69KV'	35	-0.002	36 WERE	'SMOKEY HILLS 34KV'	5	0 0.03734	-0.0397	
VERE	'CITY OF FREDONIA 69KV'	10.294	0.005	21 WERE	'ABILENE ENERGY CENTER 115KV'	4		-0.0385	1
WERE	'CITY OF IOLA 69KV' 'CITY OF WINFIELD 69KV'	13.372 33.672	0.006	315 WERE 388 WERE	ABILENE ENERGY CENTER 115KV ABILENE ENERGY CENTER 115KV	4		-0.03756	
WERE	'GETTY 69KV'	35	-0.002	36 WERE	'HUTCHINSON ENERGY CENTER 115KV'	81.4010	9 0.03496	-0.03732	
VERE	'NEOSHO ENERGY CENTER 138KV'	67		39 WERE	ABILENE ENERGY CENTER 115KV	4	0 0.04371	-0.03732	
WERE	'CITY OF MULVANE 69KV' 'GILL ENERGY CENTER 69KV'	10.899 118		28 WERE	ABILENE ENERGY CENTER 115KV ABILENE ENERGY CENTER 115KV	4		-0.03543	
WERE	'GILL ENERGY CENTER 138KV'	17.99999	0.009	33 WERE	'ABILENE ENERGY CENTER 115KV'	4	0 0.04371	-0.03438	
WERE	'EVANS ENERGY CENTER 138KV' 'CITY OF IOLA 69KV'	348 13.372		067 WERE	'ABILENE ENERGY CENTER 115KV' 'SMOKEY HILLS 34KV'	4		-0.03304	
WERE	'NEOSHO ENERGY CENTER 138KV'	13.372		39 WERE	SMOKEY HILLS 34KV SMOKEY HILLS 34KV	5		-0.03119	
WERE	'CITY OF WINFIELD 69KV'	33.672		88 WERE	'SMOKEY HILLS 34KV'		0 0.03734	-0.03046	

 WERE
 ICITY OF WINFIELD 69KV
 33.672
 0.00688
 WERE
 ISMOKEY HILLS 34KV

 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
 Sink GSF

 Redispatch Amount = Relief Amount / Factor
 Support for the study models where limiting facility was identified.

rection: ne Outage: owgate:	To->From IATAN - ST JOE 345KV CKT 1 57152571651579825919914306WP							
te Redispatch Needed: ason Flowgate Identified:	12/1/06 - 4/1/07 2006 Winter Peak							
servation	Relief Amount	Aggregate Relief Amount						
1034589 1034590		0.2 0.6 0.5 0.6						
Irce Control Area	Source	Maximum Increment(MW)	GSF Area	Sink	Maximum Decrement(MW)	GSF	Factor	Redispatch Amount (M)
RE RE	'HOLTON 115KV' 'HOLTON 115KV'	19.8		CHANUTE 69KV CITY OF AUGUSTA 69KV	35.344			
RE	'HOLTON 115KV'	19.8	-0.66755 WERE	'CITY OF BURLINGTON 69KV'	5.4	0.01229	-0.67984	
RE RE	'HOLTON 115KV' 'HOLTON 115KV'	19.8 19.8	-0.66755 WERE -0.66755 WERE	'CITY OF GIRARD 69KV' 'CITY OF IOLA 69KV'	1.493	0.00836	-0.67591	
RE	'HOLTON 115KV' 'HOLTON 115KV'	19.8		'CITY OF MULVANE 69KV' 'CITY OF WELLINGTON 69KV'	3.694		-0.6753	
RE	HOLTON 115KV' HOLTON 115KV'	19.8	-0.66755 WERE	COFFEY COUNTY NO. 2 SHARPE 69KV' 'EVANS ENERGY CENTER 138KV'	19.97	0.01229	-0.67984	
RE	'HOLTON 115KV'	19.8	-0.66755 WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03802	-0.70557	
RE	'HOLTON 115KV' 'HOLTON 115KV'	19.8	-0.66755 WERE -0.66755 WERE	'JEFFREY ENERGY CENTER 345KV' 'LAWRENCE ENERGY CENTER 230KV'	940 180.7032			
RE	'HOLTON 115KV' 'HOLTON 115KV'	19.8	-0.66755 WERE -0.66755 WERE	'TECUMSEH ENERGY CENTER 115KV' 'WACO 138KV'	42.80493			
RE	'BROWN COUNTY 115KV' 'BROWN COUNTY 115KV'	4.3		CHANUTE 69KV' CITY OF AUGUSTA 69KV'	35.344 18.8	0.00764	-0.31762	
RE	'BROWN COUNTY 115KV'	4.3	-0.30998 WERE	'CITY OF BURLINGTON 69KV'	5.4	0.01229	-0.32227	
RE	'BROWN COUNTY 115KV' 'BROWN COUNTY 115KV'	4.3		'CITY OF GIRARD 69KV' 'CITY OF IOLA 69KV'	1.493			
RE RE	'BROWN COUNTY 115KV' 'BROWN COUNTY 115KV'	4.3		CITY OF MULVANE 69KV' CITY OF WELLINGTON 69KV'	3.694		-0.31773	+
ERE	'BROWN COUNTY 115KV' 'BROWN COUNTY 115KV'	4.3	-0.30998 WERE	COFFEY COUNTY NO. 2 SHARPE 69KV' 'EVANS ENERGY CENTER 138KV'	19.97	0.01229	-0.32227	<u> </u>
ERE	'BROWN COUNTY 115KV'	4.3	-0.30998 WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03802	-0.348	<u> </u>
ERE ERE	BROWN COUNTY 115KV BROWN COUNTY 115KV	4.3	-0.30998 WERE	'JEFFREY ENERGY CENTER 345KV' 'LAWRENCE ENERGY CENTER 230KV'	940 180.7032	0.03438	-0.34436	
RE	'BROWN COUNTY 115KV' 'BROWN COUNTY 115KV'	4.3		'TECUMSEH ENERGY CENTER 115KV' 'WACO 138KV'	42.80493		-0.35932 -0.31854	<u> </u>
ERE ERE	'SOUTH SENECA 115KV' 'SOUTH SENECA 115KV'	15	-0.28133 WERE	CHANUTE 69KV' CITY OF AUGUSTA 69KV'	35.344 18.8	0.00764	-0.28897	
RE	'SOUTH SENECA 115KV'	15	-0.28133 WERE	'CITY OF BURLINGTON 69KV'	5.4	0.01229	-0.29362	
RE	'SOUTH SENECA 115KV' 'SOUTH SENECA 115KV'	15	-0.28133 WERE	CITY OF GIRARD 69KV' CITY OF IOLA 69KV'	1.493	0.00836	-0.28969	
RE	'SOUTH SENECA 115KV' 'SOUTH SENECA 115KV'	15		'CITY OF MULVANE 69KV' 'CITY OF WELLINGTON 69KV'	3.694 29.148		-0.28908 -0.28883	
RE	'SOUTH SENECA 115KV' 'SOUTH SENECA 115KV'	15	-0.28133 WERE	COFFEY COUNTY NO. 2 SHARPE 69KV 'EVANS ENERGY CENTER 138KV'	19.97	0.01229	-0.29362	
RE	'SOUTH SENECA 115KV'	15	-0.28133 WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03802	-0.31935	
ERE ERE	'SOUTH SENECA 115KV' 'SOUTH SENECA 115KV'	15	-0.28133 WERE	'JEFFREY ENERGY CENTER 345KV' 'LAWRENCE ENERGY CENTER 230KV'	940 180.7032	0.03438	-0.31571	
RE	'SOUTH SENECA 115KV' 'SOUTH SENECA 115KV'	15		'TECUMSEH ENERGY CENTER 115KV' 'WACO 138KV'	42.80493			
EPL EPL	'GREENLEAF 115KV' 'GREENLEAF 115KV'	10.15	-0.13742 WEPL	A. M. MULLERGREN GENERATOR 115KV GRAY COUNTY WIND FARM 115KV	22.81527	0.00895		
EPL	'GREENLEAF 115KV'	10.15	-0.13742 WEPL	'JUDSON LARGE 115KV'	45.95631	0.00363	-0.14105	
EPL EPL	CLIFTON 115KV CLIFTON 115KV	70	-0.09717 WEPL	'A. M. MULLERGREN GENERATOR 115KV' 'GRAY COUNTY WIND FARM 115KV'	22.81527	0.00362	-0.10079	
EPL ERE	'CLIFTON 115KV' 'GETTY 69KV'	70		'JUDSON LARGE 115KV' TECUMSEH ENERGY CENTER 115KV'	45.95631 42.80493			
ERE	'CITY OF AUGUSTA 69KV' 'CHANUTE 69KV'	8.54 45.256	0.00165 WERE 0.00764 WERE	TECUMSEH ENERGY CENTER 115KV TECUMSEH ENERGY CENTER 115KV	42.80493 42.80493		-0.04769	
RE	'CITY OF ERIE 69KV'	26.53	0.00764 WERE	'TECUMSEH ENERGY CENTER 115KV'	42.80493	0.04934	-0.0417	
RE	CITY OF FREDONIA 69KV CITY OF MULVANE 69KV	10.294	0.00674 WERE 0.00775 WERE	TECUMSEH ENERGY CENTER 115KV TECUMSEH ENERGY CENTER 115KV	42.80493 42.80493	0.04934	-0.04159	
RE	'CITY OF WELLINGTON 69KV' 'CITY OF WINFIELD 69KV'	14.352	0.0075 WERE 0.00655 WERE	TECUMSEH ENERGY CENTER 115KV TECUMSEH ENERGY CENTER 115KV	42.80493 42.80493			
RE	'GETTY 69KV' 'CITY OF AUGUSTA 69KV'	35		'JEFFREY ENERGY CENTER 345KV' 'JEFFREY ENERGY CENTER 345KV'	940			
RE	'CITY OF GIRARD 69KV' 'CITY OF IOLA 69KV'	9.207 23.65	0.00845 WERE 0.00836 WERE	TECUMSEH ENERGY CENTER 115KV TECUMSEH ENERGY CENTER 115KV	42.80493 42.80493	0.04934	-0.04089	
RE	'EVANS ENERGY CENTER 138KV'	738	0.00968 WERE	'TECUMSEH ENERGY CENTER 115KV'	42.80493	0.04934	-0.03966	
RE RE	'GETTY 69KV' 'GILL ENERGY CENTER 138KV'	35	0.00843 WERE	'JEFFREY ENERGY CENTER 230KV' 'TECUMSEH ENERGY CENTER 115KV'	470 42.80493			
RE RE	'GILL ENERGY CENTER 69KV' 'NEOSHO ENERGY CENTER 138KV'	118		TECUMSEH ENERGY CENTER 115KV TECUMSEH ENERGY CENTER 115KV	42.80493 42.80493			
RE	'CITY OF BURLINGTON 69KV' 'GETTY 69KV'	7.1	0.01229 WERE -0.00286 WERE	'TECUMSEH ENERGY CENTER 115KV' 'LAWRENCE ENERGY CENTER 230KV'	42.80493 180.7032	0.04934 0.03438	-0.03705	
PL	'BELOIT 115KV'	9.25	-0.02631 WEPL	'A. M. MULLERGREN GENERATOR 115KV'	22.81527	0.00895	-0.03526	
RE	CITY OF AUGUSTA 69KV CHANUTE 69KV	8.54	0.00764 WERE	JEFFREY ENERGY CENTER 230KV JEFFREY ENERGY CENTER 345KV	470 940	0.04092		
RE RE	'CITY OF AUGUSTA 69KV' 'CITY OF ERIE 69KV'	8.54	0.00764 WERE	'LAWRENCE ENERGY CENTER 230KV' 'JEFFREY ENERGY CENTER 345KV'	180.7032 940	0.04092	-0.03328	
RE	'CITY OF FREDONIA 69KV' 'CITY OF MULVANE 69KV'	10.294	0.00674 WERE 0.00775 WERE	'JEFFREY ENERGY CENTER 345KV' 'JEFFREY ENERGY CENTER 345KV'	940			
RE	'CITY OF WELLINGTON 69KV' 'CITY OF WINFIELD 69KV'	14.352	0.0075 WERE	JEFFREY ENERGY CENTER 345KV JEFFREY ENERGY CENTER 345KV	940	0.04092	-0.03342	
RE	CITY OF FREDONIA 69KV	10.294	0.00674 WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03802	-0.03128	
RE	'CITY OF GIRARD 69KV' 'CITY OF IOLA 69KV'	9.207	0.00845 WERE 0.00836 WERE	JEFFREY ENERGY CENTER 345KV JEFFREY ENERGY CENTER 345KV	940	0.04092	-0.03256	
RE	'CITY OF WINFIELD 69KV' 'EVANS ENERGY CENTER 138KV'	40		'JEFFREY ENERGY CENTER 230KV' 'JEFFREY ENERGY CENTER 345KV'	470 940			
RE	'GILL ENERGY CENTER 138KV' 'GILL ENERGY CENTER 69KV'	218	0.00843 WERE	JEFFREY ENERGY CENTER 345KV JEFFREY ENERGY CENTER 345KV	940	0.04092	-0.03249	
RE RE	'NEOSHO ENERGY CENTER 138KV'	118 67	0.00829 WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.04092	-0.03263	
RE RE	'CHANUTE 69KV' 'CITY OF ERIE 69KV'	45.256		'JEFFREY ENERGY CENTER 230KV' 'JEFFREY ENERGY CENTER 230KV'	470	0.03802	-0.03038	
RE	'CITY OF MULVANE 69KV' 'CITY OF WELLINGTON 69KV'	12.096		JEFFREY ENERGY CENTER 230KV JEFFREY ENERGY CENTER 230KV	470			

Reservation 1034589	Relief Amount	0.1	Amount 0.
			Aggregate Relief
Season Flowgate Identified:	2007 Spring Peak		
Date Redispatch Needed:	Starting 2007 4/1 - 6/1 Until EOC of Upgrade		
Flowgate:	57152571651587585686114107G		
Line Outage:	CONCORDIA - EAST MANHATTAN 230KV CKT 1		
Direction:	To->From		
Limiting Facility:	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION	N 115ł	(V CKT 1
Upgrade:	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION	N 115F	(V CKT 1

and Original A	0	Maximum	005	Sink Control	01-14	Maximum	005	Franks	Redispatch
rce Control Area PL	Source 'BELOIT 115KV'	Increment(MW) 9.25	GSF -0.12738	Area	Sink 'A. M. MULLERGREN GENERATOR 115KV'	Decrement(MW) 46.705		Factor -0.1215	Amount (M
RE	'BROWN COUNTY 115KV'	4.3	-0.32608	WERE	'ABILENE ENERGY CENTER 115KV'	40.703		-0.35136	
RE	'BROWN COUNTY 115KV'	4.3			'BPU - CITY OF MCPHERSON 115KV'	117.4167		-0.34255	
E E	BROWN COUNTY 115KV BROWN COUNTY 115KV	4.3			CITY OF AUGUSTA 69KV'	24.3	-0.0023 0.00389	-0.32378 -0.32997	
E	'BROWN COUNTY 115KV'	4.3			'CITY OF WELLINGTON 69KV'	39.5	0.00386	-0.32994	
E	'BROWN COUNTY 115KV'	4.3			'CITY OF WINFIELD 69KV'	11.44398	0.00305	-0.32913	
E	BROWN COUNTY 115KV BROWN COUNTY 115KV	4.3			'EVANS ENERGY CENTER 138KV' 'GILL ENERGY CENTER 138KV'	340	0.00585	-0.33193 -0.33051	
E	BROWN COUNTY 115KV	4.3			HUTCHINSON ENERGY CENTER 115KV	133		-0.33917	
E	'BROWN COUNTY 115KV'	4.3	-0.32608	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0351	-0.36118	
E	BROWN COUNTY 115KV	4.3			JEFFREY ENERGY CENTER 345KV	940		-0.36162	
E	BROWN COUNTY 115KV BROWN COUNTY 115KV	4.3			'SMOKEY HILLS 34KV' 'TECUMSEH ENERGY CENTER 115KV'	50 68.00001	0.0141 0.04373	-0.34018 -0.36981	
E	'BROWN COUNTY 115KV'	4.3			'WACO 138KV'	18		-0.33065	
L	CLIFTON 115KV	70			'A. M. MULLERGREN GENERATOR 115KV'	46.705		-0.18169	
L	CLIFTON 115KV CLIFTON 115KV	70			'GRAY COUNTY WIND FARM 115KV' 'JUDSON LARGE 115KV'	36 84.02415		-0.18315 -0.18317	
- L	'GREENLEAF 115KV'	10.15			'A. M. MULLERGREN GENERATOR 115KV'	46.705		-0.20789	
	'GREENLEAF 115KV'	10.15			'GRAY COUNTY WIND FARM 115KV'	36	-0.00442	-0.20935	
E	'GREENLEAF 115KV' 'HOLTON 115KV'	10.15			JUDSON LARGE 115KV ABILENE ENERGY CENTER 115KV	84.02415		-0.20937	
	HOLTON 115KV	19.8			BPU - CITY OF MCPHERSON 115KV	117.4167		-0.70401	
E	'HOLTON 115KV'	19.8	-0.67873	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.01309	-0.69182	
E	'HOLTON 115KV'	19.8			JEFFREY ENERGY CENTER 230KV	470	0.0351	-0.71383	+
E	HOLTON 115KV HOLTON 115KV	19.8 19.8			'JEFFREY ENERGY CENTER 345KV' 'SMOKEY HILLS 34KV'	940		-0.71427 -0.69283	<u> </u>
	HOLTON 115KV	19.8			TECUMSEH ENERGY CENTER 115KV	68.00001	0.04373	-0.72246	
	'SMITH CENTER 115KV'	5.35	-0.09189	WEPL	'A. M. MULLERGREN GENERATOR 115KV'	46.705	-0.00588	-0.08601	
-	'SMITH CENTER 115KV' 'SMITH CENTER 115KV'	5.35 5.35			'GRAY COUNTY WIND FARM 115KV' 'JUDSON LARGE 115KV'	36 84.02415	-0.00442	-0.08747 -0.08749	<b> </b>
-	SMITH CENTER 115KV SOUTH SENECA 115KV	5.35			ABILENE ENERGY CENTER 115KV	84.02415	-0.0044	-0.08749	
E	'SOUTH SENECA 115KV'	15	-0.30743	WERE	'BPU - CITY OF MCPHERSON 115KV'	117.4167	0.01647	-0.3239	
E	'SOUTH SENECA 115KV' 'SOUTH SENECA 115KV'	15			CITY OF MULVANE 69KV' 'EVANS ENERGY CENTER 138KV'	4.922	0.00389	-0.31132 -0.31328	
E	SOUTH SENECA 115KV	15			GILL ENERGY CENTER 138KV	340		-0.31328	
E	'SOUTH SENECA 115KV'	15			'HUTCHINSON ENERGY CENTER 115KV'	120		-0.32052	
E	'SOUTH SENECA 115KV'	15			'JEFFREY ENERGY CENTER 230KV'	470		-0.34253	
	'SOUTH SENECA 115KV' 'SOUTH SENECA 115KV'	15 15			'JEFFREY ENERGY CENTER 345KV' 'SMOKEY HILLS 34KV'	940		-0.34297 -0.32153	
	SOUTH SENECA 115KV	15			TECUMSEH ENERGY CENTER 115KV	68.00001	0.0141	-0.35116	
E	'SOUTH SENECA 115KV'	15	-0.30743	WERE	'WACO 138KV'	18	0.00457	-0.312	
E	CHANUTE 69KV CITY OF AUGUSTA 69KV	40.21 3.04		WERE	'TECUMSEH ENERGY CENTER 115KV' 'JEFFREY ENERGY CENTER 230KV'	68.00001	0.04373 0.0351	-0.0389	
E	CITY OF AUGUSTA 69KV	3.04		WERE	JEFFREY ENERGY CENTER 345KV	940	0.03554	-0.0374	
E	'CITY OF AUGUSTA 69KV'	3.04	-0.0023	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04373	-0.04603	
E	'CITY OF BURLINGTON 69KV'	2	0.00847		TECUMSEH ENERGY CENTER 115KV	68.00001	0.04373	-0.03526	
E	CITY OF ERIE 69KV' CITY OF FREDONIA 69KV'	26.53 10.294	0.00483		TECUMSEH ENERGY CENTER 115KV TECUMSEH ENERGY CENTER 115KV	68.00001	0.04373 0.04373	-0.0389	
E	'CITY OF GIRARD 69KV'	8.174			TECUMSEH ENERGY CENTER 115KV	68.00001		-0.0378	
E	'CITY OF IOLA 69KV'	20.548			'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04373	-0.03816	
E	CITY OF MULVANE 69KV CITY OF NEODESHA 69KV	10.868			TECUMSEH ENERGY CENTER 115KV TECUMSEH ENERGY CENTER 115KV	68.00001 68.00001		-0.03984 -0.0396	
E	CITY OF WELLINGTON 69KV	4.5	0.00413		TECUMSEH ENERGY CENTER 115KV	68.00001	0.04373	-0.03987	
E	'CITY OF WINFIELD 69KV'	28.55602	0.00305	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04373	-0.04068	
E	'EVANS ENERGY CENTER 138KV'	313			TECUMSEH ENERGY CENTER 115KV	68.00001	0.04373	-0.03788	
E	'GETTY 69KV' 'GETTY 69KV'	35			JEFFREY ENERGY CENTER 230KV JEFFREY ENERGY CENTER 345KV	470	0.0351	-0.04204	
E	'GETTY 69KV'	35		WERE	TECUMSEH ENERGY CENTER 115KV	68.00001		-0.05067	
E	'GILL ENERGY CENTER 138KV'	17.99999	0.00443	WERE	'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04373	-0.0393	
E	'GILL ENERGY CENTER 69KV' 'NEOSHO ENERGY CENTER 138KV'	118			TECUMSEH ENERGY CENTER 115KV	68.00001 68.00001		-0.03937 -0.03815	<b> </b>
E	OXFORD 138KV	67			'TECUMSEH ENERGY CENTER 115KV' 'TECUMSEH ENERGY CENTER 115KV'	68.00001	0.04373 0.04373	-0.03815	
E	'ST JOHN 115KV'	2.9	0.00053	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03554	-0.03501	
E	ST JOHN 115KV	2.9			TECUMSEH ENERGY CENTER 115KV	68.00001	0.04373	-0.0432	
E	CHANUTE 69KV CHANUTE 69KV	40.21 40.21			JEFFREY ENERGY CENTER 230KV JEFFREY ENERGY CENTER 345KV	470 940	0.0351	-0.03027	<u> </u>
	'CITY OF ERIE 69KV'	26.53	0.00483	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0351	-0.03027	
	'CITY OF ERIE 69KV'	26.53	0.00483	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03554	-0.03071	1
	CITY OF FREDONIA 69KV CITY OF FREDONIA 69KV	10.294 10.294	0.00388		JEFFREY ENERGY CENTER 230KV JEFFREY ENERGY CENTER 345KV	470 940	0.0351	-0.03122 -0.03166	
E	CITY OF PREDONIA 69KV	10.294	0.00389		JEFFREY ENERGY CENTER 345KV	470		-0.03100	
	'CITY OF MULVANE 69KV'	10.868	0.00389	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03554	-0.03165	
E	CITY OF NEODESHA 69KV' CITY OF NEODESHA 69KV'	4.5	0.00413		JEFFREY ENERGY CENTER 230KV JEFFREY ENERGY CENTER 345KV	470	0.0351	-0.03097	
	CITY OF NEODESHA 69KV CITY OF WELLINGTON 69KV	4.5			JEFFREY ENERGY CENTER 345KV JEFFREY ENERGY CENTER 230KV	940		-0.03141 -0.03124	
	'CITY OF WELLINGTON 69KV'	4	0.00386	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03554	-0.03168	
	CITY OF WINFIELD 69KV	28.55602			JEFFREY ENERGY CENTER 230KV	470		-0.03205	
	CITY OF WINFIELD 69KV'	28.55602 35			JEFFREY ENERGY CENTER 345KV ABILENE ENERGY CENTER 115KV	940		-0.03249	
	'GILL ENERGY CENTER 138KV'	17.99999	0.00443	WERE	'JEFFREY ENERGY CENTER 230KV'	40		-0.03222	
	'GILL ENERGY CENTER 138KV'	17.99999	0.00443	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03554	-0.03111	
	'GILL ENERGY CENTER 69KV'	118			JEFFREY ENERGY CENTER 230KV	470		-0.03074	
	'GILL ENERGY CENTER 69KV' 'HUTCHINSON ENERGY CENTER 115KV'	118 263			'JEFFREY ENERGY CENTER 345KV' 'TECUMSEH ENERGY CENTER 115KV'	940 68.00001		-0.03118 -0.03064	
E	HUTCHINSON ENERGY CENTER 115KV	263			TECUMSEH ENERGY CENTER 115KV TECUMSEH ENERGY CENTER 115KV	68.00001		-0.03064	
E	'OXFORD 138KV'	3	0.00363	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0351	-0.03147	
E	'OXFORD 138KV'	3			JEFFREY ENERGY CENTER 345KV	940		-0.03191	
L	'RUSSELL 115KV' 'RUSSELL 115KV'	27.9			'A. M. MULLERGREN GENERATOR 115KV' 'GRAY COUNTY WIND FARM 115KV'	46.705		-0.03194 -0.0334	
L	'RUSSELL 115KV'	27.9	-0.03782	WEPL	'JUDSON LARGE 115KV'	84.02415	-0.0044	-0.03342	
E	'ST JOHN 115KV'	2.9			'JEFFREY ENERGY CENTER 230KV' iting facility was identified.	470	0.0351	-0.03457	L

CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115	V CKT 1							
ng Facility: CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115KV CKT 1								
To->From								
CONCORDIA - EAST MANHATTAN 230KV CKT 1								
57152571651587585686114207WP								
12/1/07 - 4/1/08								
2007 Winter Peak								
	Aggregate Relief							
Relief Amount	Amount							
0.1	0.3							
	To->From CONCORDIA - EAST MANHATTAN 230KV CKT 1 5715571651587585686114207WP 12/107 - 4/1/08 2007 Winter Peak Relief Amount							

E

eservation	Relief Amount	Amount							
1034589 1034590									
		Maximum		Sink C		Maximum			Redispatch
ource Control Area /ERE	Source 'BROWN COUNTY 115KV'	Increment(MW) 4.3	GSF -0.32592	Area 2 WERE	Sink 'ABILENE ENERGY CENTER 115KV'	Decrement(MW) 4	GSF 0.02518	-0.3511	Amount (MW)
ERE	'BROWN COUNTY 115KV'	4.3	-0.32592	2 WERE	'BPU - CITY OF MCPHERSON 115KV'	117.28	0.01647	-0.34239	
ERE	BROWN COUNTY 115KV BROWN COUNTY 115KV	4.3	-0.3259			24.0999		-0.3235 -0.32975	
ERE	'BROWN COUNTY 115KV'	4.3	-0.32592	2 WERE	'CITY OF WELLINGTON 69KV'	39.	5 0.00382	-0.32974	
ERE	BROWN COUNTY 115KV BROWN COUNTY 115KV	4.3				5.3		-0.32889 -0.33171	
ERE	'BROWN COUNTY 115KV'	4.3	-0.32592	2 WERE	'GILL ENERGY CENTER 138KV'	15	5 0.00438	-0.3303	
ERE	BROWN COUNTY 115KV BROWN COUNTY 115KV	4.3	-0.32592			12		-0.33908 -0.36095	
ERE	BROWN COUNTY 115KV	4.3	-0.3259			94		-0.36095	
ERE	'BROWN COUNTY 115KV'	4.3	-0.32592	2 WERE	'SMOKEY HILLS 34KV'	10	0.01363	-0.33955	
ERE ERE	BROWN COUNTY 115KV BROWN COUNTY 115KV	4.3	-0.3259			10		-0.36959 -0.33044	
EPL	'GREENLEAF 115KV'	8.05	-0.2135	8 WEPL	'GRAY COUNTY WIND FARM 115KV'	3	-0.00412	-0.20946	
EPL	'GREENLEAF 115KV' 'GREENLEAF 115KV'	8.05	-0.2135		JUDSON LARGE 115KV NORTH WEST GREAT BEND 115KV	34.3602		-0.20947	
EPL ERE	'HOLTON 115KV'	8.05	-0.2135		'ABILENE ENERGY CENTER 115KV'	3.7		-0.20829 -0.70386	
RE	'HOLTON 115KV'	19.8	-0.6786			117.28		-0.69515	
ERE ERE	'HOLTON 115KV' 'HOLTON 115KV'	19.8		3 WERE		12		-0.69184 -0.71371	
ERE	'HOLTON 115KV'	19.8				94		-0.71415	
ERE	'HOLTON 115KV' 'HOLTON 115KV'	19.8				10		-0.69231 -0.72235	
ERE	SOUTH SENECA 115KV	19.0				4		-0.72235	
ERE	'SOUTH SENECA 115KV'	15	-0.3072	WERE	'BPU - CITY OF MCPHERSON 115KV'	117.28	0.01647	-0.32373	
ERE	'SOUTH SENECA 115KV' 'SOUTH SENECA 115KV'	15				3.79		-0.31109 -0.31305	
RE	'SOUTH SENECA 115KV'	15	-0.3072	6 WERE	'GILL ENERGY CENTER 138KV'	15	5 0.00438	-0.31164	
ERE	'SOUTH SENECA 115KV' 'SOUTH SENECA 115KV'	15				12		-0.32042 -0.34229	
ERE	SOUTH SENECA 115KV SOUTH SENECA 115KV	15				4/		-0.34229	
ERE	'SOUTH SENECA 115KV'	15	-0.3072	WERE	'SMOKEY HILLS 34KV'	10	0.01363	-0.32089	
ERE	'SOUTH SENECA 115KV' 'SOUTH SENECA 115KV'	15	-0.3072			10		-0.35093 -0.31178	
EPL	'BELOIT 115KV'	3.999996	-0.1271	WEPL	'GRAY COUNTY WIND FARM 115KV'	3	6 -0.00412	-0.12305	
EPL EPL	'BELOIT 115KV' 'BELOIT 115KV'	3.999996			'JUDSON LARGE 115KV' 'NORTH WEST GREAT BEND 115KV'	34.3602		-0.12306	
EPL	CLIFTON 115KV	3.999996			GRAY COUNTY WIND FARM 115KV	3.7		-0.12188	
EPL	'CLIFTON 115KV'	70	-0.1873	7 WEPL	'JUDSON LARGE 115KV'	34.3602	-0.00411	-0.18326	
EPL EPL	CLIFTON 115KV CLIFTON 115KV	70			'NORTH WEST GREAT BEND 115KV' 'PLAINVILLE 115KV'	3.7		-0.18208 -0.15874	
EPL .	CLIFTON 115KV	70	-0.1873	WEPL	'RUSSELL 115KV'	19.		-0.15001	
PL	'GREENLEAF 115KV'	8.05	-0.2135		'PLAINVILLE 115KV'	5.2		-0.18495	
EPL EPL	'GREENLEAF 115KV' 'BELOIT 115KV'	8.05			'RUSSELL 115KV' 'PLAINVILLE 115KV'	19.		-0.17622 -0.09854	
EPL	'BELOIT 115KV'	3.999996	-0.1271	WEPL	'RUSSELL 115KV'	19.	-0.03736	-0.08981	
EPL.	GREENLEAF 115KV	8.05	-0.2135		'BELOIT 115KV' 'GRAY COUNTY WIND FARM 115KV'	5.25000		-0.08641 -0.08756	
EPL EPL	'SMITH CENTER 115KV' 'SMITH CENTER 115KV'	5.35	-0.0916		JUDSON LARGE 115KV	34.3602		-0.08756	
EPL	'SMITH CENTER 115KV'	5.35	-0.0916	B WEPL	'NORTH WEST GREAT BEND 115KV'	3.7	-0.00529	-0.08639	
EPL EPL	'CLIFTON 115KV' 'SMITH CENTER 115KV'	5.35	-0.1873		'BELOIT 115KV' 'PLAINVILLE 115KV'	5.25000		-0.0602	
ERE	'GETTY 69KV'	35	-0.0070		'TECUMSEH ENERGY CENTER 115KV'	10		-0.05073	
EPL	'SMITH CENTER 115KV'	5.35	-0.0916		'RUSSELL 115KV'	19.		-0.05432	
ERE ERE	CITY OF AUGUSTA 69KV CITY OF WINFIELD 69KV	3.24002 34.68	-0.00242			10		-0.04609	
ERE	'GETTY 69KV'	35	-0.0070	6 WERE	'JEFFREY ENERGY CENTER 230KV'	47	0.03503	-0.04209	
ERE	'GETTY 69KV' 'ST JOHN 115KV'	35	-0.0070			94		-0.04253 -0.04279	
ERE	CHANUTE 69KV	45.782	0.000472			10		-0.03895	
ERE	CITY OF AUGUSTA 69KV	3.24002	-0.00242			47		-0.03745	
ERE	'CITY OF AUGUSTA 69KV' 'CITY OF ERIE 69KV'	3.24002 26.53	-0.00242	2 WERE		94		-0.03789 -0.03895	
ERE	'CITY OF FREDONIA 69KV'	10.294	0.00378	8 WERE	'TECUMSEH ENERGY CENTER 115KV'	10	0.04367	-0.03989	
ERE	'CITY OF GIRARD 69KV' 'CITY OF IOLA 69KV'	9.21 23.063	0.0058	WERE		10		-0.03786 -0.0382	
ERE	CITY OF MULVANE 69KV	11.999			'TECUMSEH ENERGY CENTER 115KV'	10		-0.03984	
ERE	'CITY OF NEODESHA 69KV'	4.5	0.00402	2 WERE	'TECUMSEH ENERGY CENTER 115KV'	10	0.04367	-0.03965	-
ERE	'CITY OF WELLINGTON 69KV' 'EVANS ENERGY CENTER 138KV'	313		WERE WERE		10		-0.03985 -0.03788	
ERE	'GILL ENERGY CENTER 138KV'	17.99999	0.00438	8 WERE	'TECUMSEH ENERGY CENTER 115KV'	10	0.04367	-0.03929	
ERE	'GILL ENERGY CENTER 69KV' 'NEOSHO ENERGY CENTER 138KV'	118		WERE		10		-0.03937	
ERE	'OXFORD 138KV'	3	0.0054			10		-0.0382	
ERE	'CITY OF WINFIELD 69KV'	34.68	0.0029	WERE	'JEFFREY ENERGY CENTER 230KV'	47	0.03503	-0.03206	
ERE	'CITY OF WINFIELD 69KV' 'GETTY 69KV'	34.68				94		-0.0325	
ERE	'OXFORD 138KV'	3	0.0035	WERE	'JEFFREY ENERGY CENTER 345KV'	94	0.03547	-0.0319	
PL	'RUSSELL 115KV'	8.5			'GRAY COUNTY WIND FARM 115KV'	3	-0.00412	-0.03324	
EPL EPL	'RUSSELL 115KV' 'RUSSELL 115KV'	8.5	-0.0373		JUDSON LARGE 115KV NORTH WEST GREAT BEND 115KV	34.3602		-0.03325 -0.03207	
RE	'CHANUTE 69KV'	45.782	0.00472	2 WERE	'JEFFREY ENERGY CENTER 230KV'	47	0.03503	-0.03031	
ERE ERE	CHANUTE 69KV' CITY OF ERIE 69KV'	45.782 26.53	0.00472	2 WERE 2 WERE		94		-0.03075	
RE	'CITY OF ERIE 69KV'	26.53	0.00472	2 WERE	'JEFFREY ENERGY CENTER 345KV'	94	0.03547	-0.03075	
RE	'CITY OF FREDONIA 69KV'	10.294	0.00378	8 WERE	'JEFFREY ENERGY CENTER 230KV'	47	0.03503	-0.03125	
ERE ERE	'CITY OF FREDONIA 69KV' 'CITY OF IOLA 69KV'	10.294 23.063	0.00378	WERE		94		-0.03169 -0.03	
ERE	'CITY OF MULVANE 69KV'	11.999	0.00383	8 WERE	'JEFFREY ENERGY CENTER 230KV'	47	0.03503	-0.0312	
ERE	CITY OF MULVANE 69KV	11.999	0.0038			94		-0.03164	
ERE ERE	CITY OF NEODESHA 69KV' CITY OF NEODESHA 69KV'	4.5	0.0040			47		-0.03101 -0.03145	
ERE	'CITY OF WELLINGTON 69KV'	4	0.00382	2 WERE	'JEFFREY ENERGY CENTER 230KV'	47	0.03503	-0.03121	
ERE ERE	CITY OF WELLINGTON 69KV' GILL ENERGY CENTER 138KV'	4 17.99999		2 WERE 3 WERE		94		-0.03165	
ERE	GILL ENERGY CENTER 138KV	17.99999		WERE	'JEFFREY ENERGY CENTER 345KV'	94		-0.03065	
ERE	GILL ENERGY CENTER 69KV GILL ENERGY CENTER 69KV	118	0.004	B WERE	'JEFFREY ENERGY CENTER 230KV'	47	0.03503	-0.03073 -0.03117	
ERE									

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

Upgrade:	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115k	V CKT 1
Limiting Facility:	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115k	V CKT 1
Direction:	To->From	
Line Outage:	CONCORDIA - EAST MANHATTAN 230KV CKT 1	
Flowgate:	57152571651587585686114407FA	
Date Redispatch Needed:	Starting 2007 10/1 - 12/1 Until EOC of Upgrade	
Season Flowgate Identified:	2007 Fall Peak	
		Aggregate Relief
Reservation	Relief Amount	Amount
1034589	0.1	0.2

	1034590	0.1 0.2 Maximum		Sink Control		Maximum		Redisp
Irce Control Area	Source		GSF	Area	Sink 'ABILENE ENERGY CENTER 115KV'	Decrement(MW)	GSF	Factor Amoun
RE RE	BROWN COUNTY 115KV BROWN COUNTY 115KV	4.3			CITY OF AUGUSTA 69KV	40 24.3	0.02505	-0.35126 -0.32373
RE	'BROWN COUNTY 115KV'	4.3	-0.32621		CITY OF MULVANE 69KV	4.891	0.00378	-0.32999
E	BROWN COUNTY 115KV BROWN COUNTY 115KV	4.3	-0.32621 -0.32621		CITY OF WELLINGTON 69KV' CITY OF WINFIELD 69KV'	39.5 6.327995	0.00377 0.00293	-0.32998 -0.32914
E	'BROWN COUNTY 115KV'	4.3	-0.32621		'EVANS ENERGY CENTER 138KV'	306.9133	0.00573	-0.33194
E	BROWN COUNTY 115KV	4.3	-0.32621 -0.32621	WERE	'GILL ENERGY CENTER 138KV' 'HUTCHINSON ENERGY CENTER 115KV'	155	0.00432	-0.33053
RE	BROWN COUNTY 115KV BROWN COUNTY 115KV	4.3	-0.32621		JEFFREY ENERGY CENTER 230KV	120	0.01302 0.0349	-0.33923 -0.36111
RE	'BROWN COUNTY 115KV'	4.3	-0.32621	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03534	-0.36155
RE RE	BROWN COUNTY 115KV BROWN COUNTY 115KV	4.3			'SMOKEY HILLS 34KV' 'TECUMSEH ENERGY CENTER 115KV'	100	0.01349 0.04355	-0.3397 -0.36976
RE	'BROWN COUNTY 115KV'	4.3	-0.32621	WERE	WACO 138KV'	17.946	0.00446	-0.33067
	CLIFTON 115KV	70			A. M. MULLERGREN GENERATOR 115KV	2.102018	-0.00546	-0.18215
<u>인</u>	CLIFTON 115KV CLIFTON 115KV	70			'GRAY COUNTY WIND FARM 115KV' 'JUDSON LARGE 115KV'	36 43.89159	-0.0043	-0.18331 -0.18333
2	'CLIFTON 115KV'	70	-0.18761	WEPL	'NORTH WEST GREAT BEND 115KV'	3.150004	-0.00546	-0.18215
인 이	CLIFTON 115KV CLIFTON 115KV	70			'PLAINVILLE 115KV' 'RUSSELL 115KV'	5.25	-0.02881 -0.03755	-0.1588 -0.15006
2	'GREENLEAF 115KV'	8.05			'A. M. MULLERGREN GENERATOR 115KV'	2.102018	-0.00546	-0.20837
ոլ	'GREENLEAF 115KV'	8.05	-0.21383		'GRAY COUNTY WIND FARM 115KV'	36	-0.0043	-0.20953
기 <u>.</u> 기	'GREENLEAF 115KV' 'GREENLEAF 115KV'	8.05	-0.21383 -0.21383		'JUDSON LARGE 115KV' 'NORTH WEST GREAT BEND 115KV'	43.89159 3.150004	-0.00428 -0.00546	-0.20955 -0.20837
2	'GREENLEAF 115KV'	8.05	-0.21383	WEPL	'PLAINVILLE 115KV'	5.25	-0.02881	-0.18502
2	'GREENLEAF 115KV'	8.05	-0.21383		'RUSSELL 115KV'	19.4		-0.17628
RE	'HOLTON 115KV' 'HOLTON 115KV'	19.8	-0.67889 -0.67889		'ABILENE ENERGY CENTER 115KV' 'HUTCHINSON ENERGY CENTER 115KV'	40	0.02505	-0.70394 -0.69191
RE	'HOLTON 115KV'	19.8	-0.67889		JEFFREY ENERGY CENTER 230KV	470	0.0349	-0.71379
RE	'HOLTON 115KV' 'HOLTON 115KV'	19.8	-0.67889 -0.67889		'JEFFREY ENERGY CENTER 345KV' 'SMOKEY HILLS 34KV'	940	0.03534 0.01349	-0.71423 -0.69238
RE	'HOLTON 115KV'	19.8	-0.67889	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.04355	-0.72244
RE	SOUTH SENECA 115KV	15	-0.30755		ABILENE ENERGY CENTER 115KV	40	0.02505	-0.3326
RE RE	SOUTH SENECA 115KV SOUTH SENECA 115KV	15			CITY OF MULVANE 69KV' 'EVANS ENERGY CENTER 138KV'	4.891 306.9133	0.00378	-0.31133 -0.31328
RE	'SOUTH SENECA 115KV'	15	-0.30755	WERE	'GILL ENERGY CENTER 138KV'	155	0.00432	-0.31187
RE	SOUTH SENECA 115KV SOUTH SENECA 115KV	15			'HUTCHINSON ENERGY CENTER 115KV' 'JEFFREY ENERGY CENTER 230KV'	120	0.01302 0.0349	-0.32057 -0.34245
RE	'SOUTH SENECA 115KV'	15	-0.30755	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03534	-0.34289
RE	'SOUTH SENECA 115KV'	15			'SMOKEY HILLS 34KV'	100		-0.32104
RE RE	SOUTH SENECA 115KV SOUTH SENECA 115KV	15			'TECUMSEH ENERGY CENTER 115KV' 'WACO 138KV'	108	0.04355 0.00446	-0.3511 -0.31201
2	'BELOIT 115KV'	4.4	-0.12738	WEPL	'A. M. MULLERGREN GENERATOR 115KV'	2.102018	-0.00546	-0.12192
인 이	'BELOIT 115KV' 'BELOIT 115KV'	4.4			'GRAY COUNTY WIND FARM 115KV' 'JUDSON LARGE 115KV'	36 43.89159	-0.0043	-0.12308 -0.1231
2	'BELOIT 115KV'	4.4			NORTH WEST GREAT BEND 115KV	3.150004	-0.00546	-0.12192
PL	'BELOIT 115KV'	4.4	-0.12738	WEPL	'PLAINVILLE 115KV'	5.25	-0.02881	-0.09857
기 <u>.</u> 기	'BELOIT 115KV' 'GREENLEAF 115KV'	4.4	-0.12738 -0.21383	WEPL	'RUSSELL 115KV' 'BELOIT 115KV'	19.4	-0.03755 -0.12738	-0.08983 -0.08645
PL	'SMITH CENTER 115KV'	5.35			'A. M. MULLERGREN GENERATOR 115KV'	2.102018	-0.00546	-0.08642
	'SMITH CENTER 115KV'	5.35			'GRAY COUNTY WIND FARM 115KV'	36	-0.0043	-0.08758
기. 기.	'SMITH CENTER 115KV' 'SMITH CENTER 115KV'	5.35			'JUDSON LARGE 115KV' 'NORTH WEST GREAT BEND 115KV'	43.89159 3.150004	-0.00428 -0.00546	-0.0876
PL	CLIFTON 115KV	70	-0.18761		'BELOIT 115KV'	4.85	-0.12738	-0.06023
PL RE	'SMITH CENTER 115KV' 'CITY OF AUGUSTA 69KV'	5.35			'PLAINVILLE 115KV' 'TECUMSEH ENERGY CENTER 115KV'	5.25	-0.02881 0.04355	-0.06307 -0.04603
RE	'GETTY 69KV'	3.04			JEFFREY ENERGY CENTER 345KV	940		-0.04246
RE	'GETTY 69KV'	35	-0.00712	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.04355	-0.05067
PL RE	'SMITH CENTER 115KV' 'ST JOHN 115KV'	5.35	-0.09188 0.00073		'RUSSELL 115KV' 'TECUMSEH ENERGY CENTER 115KV'	19.4 108	-0.03755 0.04355	-0.05433 -0.04282
RE	CHANUTE 69KV	24.304	0.0047	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.04355	-0.03885
RE RE	CITY OF AUGUSTA 69KV	3.04			JEFFREY ENERGY CENTER 230KV	470	0.0349	
RE	CITY OF AUGUSTA 69KV CITY OF BURLINGTON 69KV	3.04	-0.00248 0.00834		'JEFFREY ENERGY CENTER 345KV' 'TECUMSEH ENERGY CENTER 115KV'	940		-0.03782 -0.03521
RE	'CITY OF ERIE 69KV'	26.53	0.0047	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.04355	-0.03885
RE	CITY OF FREDONIA 69KV CITY OF GIRARD 69KV	10.294 8.909	0.00376		TECUMSEH ENERGY CENTER 115KV TECUMSEH ENERGY CENTER 115KV	108	0.04355	-0.03979 -0.03775
RE	CITY OF GIARD 69KV	13.372	0.00544		TECUMSET ENERGY CENTER 115KV	108		
RE	'CITY OF MULVANE 69KV'	10.899	0.00378	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.04355	-0.03977
RE	CITY OF NEODESHA 69KV' CITY OF WELLINGTON 69KV'	4.5	0.00401 0.00377		TECUMSEH ENERGY CENTER 115KV TECUMSEH ENERGY CENTER 115KV	108		-0.03954 -0.03978
RE	'CITY OF WINFIELD 69KV'	33.672	0.00293	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.04355	-0.04062
RE	'EVANS ENERGY CENTER 138KV' 'GETTY 69KV'	436.0867	0.00573	WERE	'TECUMSEH ENERGY CENTER 115KV' 'JEFFREY ENERGY CENTER 230KV'	108	0.04355 0.0349	-0.03782 -0.04202
RE	GETTE 09KV GILL ENERGY CENTER 138KV	17.99999	0.00712		TECUMSEH ENERGY CENTER 115KV	108	0.0349	-0.03923
E	'GILL ENERGY CENTER 69KV'	118	0.00424	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.04355	-0.03931
RE	'NEOSHO ENERGY CENTER 138KV' 'OXFORD 138KV'	67			TECUMSEH ENERGY CENTER 115KV TECUMSEH ENERGY CENTER 115KV	108	0.04355	-0.0381 -0.04002
RE	'CHANUTE 69KV'	24.304	0.0047	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0349	-0.0302
RE	'CHANUTE 69KV' 'CITY OF ERIE 69KV'	24.304 26.53	0.0047	WERE	JEFFREY ENERGY CENTER 345KV JEFFREY ENERGY CENTER 230KV	940 470	0.03534 0.0349	-0.03064 -0.0302
RE	CITY OF ERIE 69KV	26.53		WERE	'JEFFREY ENERGY CENTER 345KV'	940		
RE	CITY OF FREDONIA 69KV	10.294	0.00376	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0349	-0.03114
RE	CITY OF FREDONIA 69KV CITY OF MULVANE 69KV	10.294	0.00376		JEFFREY ENERGY CENTER 345KV JEFFREY ENERGY CENTER 230KV	940 470	0.03534 0.0349	-0.03158 -0.03112
E	'CITY OF MULVANE 69KV'	10.899	0.00378	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03534	-0.03156
RE	'CITY OF NEODESHA 69KV'	4.5	0.00401	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0349	-0.03089
RE	CITY OF NEODESHA 69KV CITY OF WELLINGTON 69KV	4.5			JEFFREY ENERGY CENTER 345KV JEFFREY ENERGY CENTER 230KV	940	0.03534 0.0349	-0.03133 -0.03113
RE	'CITY OF WELLINGTON 69KV'	4	0.00377	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03534	-0.03157
RE	CITY OF WINFIELD 69KV CITY OF WINFIELD 69KV	33.672	0.00293		JEFFREY ENERGY CENTER 230KV JEFFREY ENERGY CENTER 345KV	470	0.0349	-0.03197
RE	'CITY OF WINFIELD 69KV' 'GETTY 69KV'	33.672			ABILENE ENERGY CENTER 345KV ABILENE ENERGY CENTER 115KV	940	0.03534 0.02505	
RE	'GILL ENERGY CENTER 138KV'	17.99999	0.00432	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.0349	-0.03058
RE	'GILL ENERGY CENTER 138KV' 'GILL ENERGY CENTER 69KV'	17.99999		WERE	'JEFFREY ENERGY CENTER 345KV' 'JEFFREY ENERGY CENTER 230KV'	940	0.03534 0.0349	-0.03102 -0.03066
RE	'GILL ENERGY CENTER 69KV'	118	0.00424		JEFFREY ENERGY CENTER 230KV JEFFREY ENERGY CENTER 345KV	940	0.0349	-0.03066
RE	'HUTCHINSON ENERGY CENTER 115KV'	263	0.01302	WERE	TECUMSEH ENERGY CENTER 115KV	108	0.04355	-0.03053
RE RE	'HUTCHINSON ENERGY CENTER 69KV' 'OXFORD 138KV'	67			TECUMSEH ENERGY CENTER 115KV JEFFREY ENERGY CENTER 230KV	108	0.04355 0.0349	-0.03054 -0.03137
	OXFORD 138KV OXFORD 138KV	3		WERE	JEFFREY ENERGY CENTER 230KV JEFFREY ENERGY CENTER 345KV	940		

Upgrade:	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115	KV CKT 1
Limiting Facility:	CIRCLEVILLE - HOYT HTI SWITCHING JUNCTION 115	KV CKT 1
Direction:	To->From	
Line Outage:	CONCORDIA (CONCORD6) 230/115/13.8KV TRANSFOR	RMER CKT 1
Flowgate:	57152571651CONCNCORD66314207WP	
Date Redispatch Needed:	12/1/07 - 4/1/08	
Season Flowgate Identified:	2007 Winter Peak	
		Aggregate Relief
Reservation	Relief Amount	Amount

		Maximum		Sink Control		Maximum			Redispatch
ource Control Area	Source 'BROWN COUNTY 115KV'	Increment(MW)	GSF -0.32592	Area	Sink 'ABILENE ENERGY CENTER 115KV'	Decrement(MW)	GSF 0.02518	Factor -0.3511	Amount (MV
ERE	BROWN COUNTY 115KV BROWN COUNTY 115KV	4.3			BPU - CITY OF MCPHERSON 115KV	117.28		-0.3511	
ERE	BROWN COUNTY 115KV	4.3	-0.32592	WERE	'CITY OF AUGUSTA 69KV' 'CITY OF MULVANE 69KV'	24.09998		-0.3235	
ERE	BROWN COUNTY 115KV BROWN COUNTY 115KV	4.3	-0.32592 -0.32592	WERE	CITY OF MULVANE 69KV	3.79		-0.32975 -0.32974	
ERE	BROWN COUNTY 115KV	4.3	-0.32592		'CITY OF WINFIELD 69KV' 'EVANS ENERGY CENTER 138KV'	5.32		-0.32889	
ERE ERE	BROWN COUNTY 115KV BROWN COUNTY 115KV	4.3			GILL ENERGY CENTER 138KV	340		-0.33171 -0.3303	
ERE	BROWN COUNTY 115KV	4.3			'HUTCHINSON ENERGY CENTER 115KV'	120	0.01316	-0.33908	
ERE	BROWN COUNTY 115KV BROWN COUNTY 115KV	4.3	-0.32592 -0.32592		JEFFREY ENERGY CENTER 230KV JEFFREY ENERGY CENTER 345KV	470		-0.36095 -0.36139	
ERE	'BROWN COUNTY 115KV'	4.3	-0.32592	WERE	'SMOKEY HILLS 34KV'	100	0.01363	-0.33955	
ERE	'BROWN COUNTY 115KV' 'BROWN COUNTY 115KV'	4.3	-0.32592 -0.32592		TECUMSEH ENERGY CENTER 115KV WACO 138KV	108		-0.36959 -0.33044	
EPL	'GREENLEAF 115KV'	8.05	-0.21358	WEPL	'GRAY COUNTY WIND FARM 115KV'	36	-0.00412	-0.20946	
EPL EPL	'GREENLEAF 115KV' 'GREENLEAF 115KV'	8.05	-0.21358 -0.21358	WEPL	'JUDSON LARGE 115KV' 'NORTH WEST GREAT BEND 115KV'	34.36028		-0.20947 -0.20829	
ERE	'HOLTON 115KV'	19.8	-0.67868	WERE	'ABILENE ENERGY CENTER 115KV'	4(	0.02518	-0.70386	
ERE	'HOLTON 115KV' 'HOLTON 115KV'	19.8 19.8	-0.67868 -0.67868		BPU - CITY OF MCPHERSON 115KV HUTCHINSON ENERGY CENTER 115KV	117.28		-0.69515 -0.69184	
ERE	'HOLTON 115KV'	19.8	-0.67868	WERE	JEFFREY ENERGY CENTER 230KV	470	0.03503	-0.71371	
ERE ERE	'HOLTON 115KV' 'HOLTON 115KV'	19.8 19.8			'JEFFREY ENERGY CENTER 345KV' 'SMOKEY HILLS 34KV'	940		-0.71415	
ERE	'HOLTON 115KV'	19.8	-0.67868		'TECUMSEH ENERGY CENTER 115KV'	108	0.04367	-0.72235	
ERE ERE	'SOUTH SENECA 115KV' 'SOUTH SENECA 115KV'	15			'ABILENE ENERGY CENTER 115KV' 'BPU - CITY OF MCPHERSON 115KV'	40		-0.33244 -0.32373	
ERE	SOUTH SENECA 115KV	15	-0.30726		CITY OF MULVANE 69KV	3.79		-0.32373	
ERE ERE	'SOUTH SENECA 115KV'	15 15	-0.30726	WERE	'EVANS ENERGY CENTER 138KV'	340	0.00579	-0.31305	
ERE	SOUTH SENECA 115KV SOUTH SENECA 115KV	15	-0.30726	WERE	GILL ENERGY CENTER 138KV HUTCHINSON ENERGY CENTER 115KV	155	0.01316	-0.31164 -0.32042	
ERE	'SOUTH SENECA 115KV'	15	-0.30726	WERE	'JEFFREY ENERGY CENTER 230KV'	47(	0.03503	-0.34229	1
ERE	SOUTH SENECA 115KV SOUTH SENECA 115KV	15		WERE	JEFFREY ENERGY CENTER 345KV 'SMOKEY HILLS 34KV'	940		-0.34273 -0.32089	
ERE	'SOUTH SENECA 115KV'	15	-0.30726	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.04367	-0.35093	
ERE EPL	'SOUTH SENECA 115KV' 'BELOIT 115KV'	15 3.999996	-0.30726		WACO 138KV' 'GRAY COUNTY WIND FARM 115KV'	17.93		-0.31178 -0.12305	
EPL	'BELOIT 115KV'	3.999996	-0.12717	WEPL	'JUDSON LARGE 115KV'	34.36028	-0.00411	-0.12306	
EPL EPL	'BELOIT 115KV' 'CLIFTON 115KV'	3.999996 70	-0.12717 -0.18737		'NORTH WEST GREAT BEND 115KV' 'GRAY COUNTY WIND FARM 115KV'	3.75		-0.12188 -0.18325	
EPL	CLIFTON 115KV	70	-0.18737	WEPL	'JUDSON LARGE 115KV'	34.36028	-0.00411	-0.18326	
EPL EPL	'CLIFTON 115KV' 'CLIFTON 115KV'	70			'NORTH WEST GREAT BEND 115KV' 'PLAINVILLE 115KV'	5.25		-0.18208 -0.15874	
EPL	'CLIFTON 115KV'	70	-0.18737	WEPL	'RUSSELL 115KV'	19.4	-0.03736	-0.15001	
EPL EPL	'GREENLEAF 115KV' 'GREENLEAF 115KV'	8.05	-0.21358 -0.21358		'PLAINVILLE 115KV' 'RUSSELL 115KV'	5.25		-0.18495 -0.17622	
EPL	'BELOIT 115KV'	3.999996	-0.12717	WEPL	'PLAINVILLE 115KV'	5.25	-0.02863	-0.09854	
EPL EPL	'BELOIT 115KV' 'GREENLEAF 115KV'	3.999996 8.05	-0.12717 -0.21358		'RUSSELL 115KV' 'BELOIT 115KV'	19.4 5.250004		-0.08981 -0.08641	
EPL	'SMITH CENTER 115KV'	5.35	-0.09168	WEPL	'GRAY COUNTY WIND FARM 115KV'	3.20000	-0.00412	-0.08756	
EPL EPL	'SMITH CENTER 115KV' 'SMITH CENTER 115KV'	5.35 5.35	-0.09168 -0.09168		'JUDSON LARGE 115KV' 'NORTH WEST GREAT BEND 115KV'	34.36028		-0.08757 -0.08639	
EPL	CLIFTON 115KV	70	-0.18737		'BELOIT 115KV'	5.250004		-0.06039	
EPL	SMITH CENTER 115KV	5.35	-0.09168		'PLAINVILLE 115KV'	5.25		-0.06305	
EPL ERE	'SMITH CENTER 115KV' 'CITY OF AUGUSTA 69KV'	5.35 3.24002	-0.09168	WERE	'RUSSELL 115KV' TECUMSEH ENERGY CENTER 115KV'	19.4		-0.05432	
ERE	'GETTY 69KV'	35 45.782	-0.00706 0.00472	WERE	TECUMSEH ENERGY CENTER 115KV	108		-0.05073	
ERE	'CHANUTE 69KV' 'CITY OF ERIE 69KV'	26.53	0.00472		TECUMSEH ENERGY CENTER 115KV TECUMSEH ENERGY CENTER 115KV	108		-0.03895 -0.03895	
ERE	CITY OF FREDONIA 69KV	10.294	0.00378		'TECUMSEH ENERGY CENTER 115KV'	108		-0.03989	
ERE	CITY OF MULVANE 69KV CITY OF NEODESHA 69KV	11.999	0.00383		TECUMSEH ENERGY CENTER 115KV TECUMSEH ENERGY CENTER 115KV	108		-0.03984 -0.03965	
ERE	'CITY OF WELLINGTON 69KV'	4	0.00382		'TECUMSEH ENERGY CENTER 115KV'	108		-0.03985	
ERE ERE	'CITY OF WINFIELD 69KV' 'GETTY 69KV'	34.68	0.00297		TECUMSEH ENERGY CENTER 115KV JEFFREY ENERGY CENTER 230KV	108		-0.0407	
ERE	'GETTY 69KV'	35	-0.00706	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03547	-0.04253	
ERE ERE	'GILL ENERGY CENTER 138KV' 'GILL ENERGY CENTER 69KV'	17.99999	0.00438	WERE	TECUMSEH ENERGY CENTER 115KV TECUMSEH ENERGY CENTER 115KV	108		-0.03929	
ERE	'OXFORD 138KV'	3	0.00357	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.04367	-0.0401	
ERE ERE	'ST JOHN 115KV' 'CITY OF AUGUSTA 69KV'	2.9 3.24002	0.00088	WERE	'TECUMSEH ENERGY CENTER 115KV' 'JEFFREY ENERGY CENTER 230KV'	108		-0.04279 -0.03745	
ERE	CITY OF AUGUSTA 69KV	3.24002	-0.00242	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03547	-0.03789	
ERE	'CITY OF GIRARD 69KV' 'CITY OF IOLA 69KV'	9.21 23.063	0.00581	WERE	TECUMSEH ENERGY CENTER 115KV TECUMSEH ENERGY CENTER 115KV	108		-0.03786	
ERE	'EVANS ENERGY CENTER 138KV'	313	0.00579	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.04367	-0.03788	
ERE	'NEOSHO ENERGY CENTER 138KV' 'ST JOHN 115KV'	67 2.9	0.00547		'TECUMSEH ENERGY CENTER 115KV' 'JEFFREY ENERGY CENTER 230KV'	108		-0.0382 -0.03415	
ERE	'ST JOHN 115KV'	2.9	0.00088	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03547	-0.03459	
ERE	'CHANUTE 69KV' 'CITY OF ERIE 69KV'	45.782	0.00472	WERE	JEFFREY ENERGY CENTER 345KV	940	0.03547	-0.03075	
ERE	'CITY OF FREDONIA 69KV'	26.53 10.294	0.00378	WERE	JEFFREY ENERGY CENTER 345KV JEFFREY ENERGY CENTER 230KV	470	0.03503	-0.03075 -0.03125	
RE	CITY OF FREDONIA 69KV	10.294			JEFFREY ENERGY CENTER 345KV	940		-0.03169 -0.0312	
ERE ERE	CITY OF MULVANE 69KV CITY OF MULVANE 69KV	11.999 11.999	0.00383		JEFFREY ENERGY CENTER 230KV JEFFREY ENERGY CENTER 345KV	470		-0.0312	
ERE	'CITY OF NEODESHA 69KV' 'CITY OF NEODESHA 69KV'	4.5	0.00402	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03503	-0.03101	
ERE	CITY OF NEODESHA 69KV CITY OF WELLINGTON 69KV	4.5	0.00402		JEFFREY ENERGY CENTER 345KV JEFFREY ENERGY CENTER 230KV	940		-0.03145 -0.03121	
ERE	'CITY OF WELLINGTON 69KV'	4	0.00382	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03547	-0.03165	
ERE	'CITY OF WINFIELD 69KV' 'CITY OF WINFIELD 69KV'	34.68 34.68	0.00297		JEFFREY ENERGY CENTER 230KV JEFFREY ENERGY CENTER 345KV	470		-0.03206	+
ERE	'GETTY 69KV'	35	-0.00706	WERE	'ABILENE ENERGY CENTER 115KV'	4(	0.02518	-0.03224	
ERE ERE	'GILL ENERGY CENTER 138KV' 'GILL ENERGY CENTER 138KV'	17.99999 17.99999	0.00438	WERE	JEFFREY ENERGY CENTER 230KV JEFFREY ENERGY CENTER 345KV	470		-0.03065	+
ERE	'GILL ENERGY CENTER 69KV'	118	0.0043	WERE	'JEFFREY ENERGY CENTER 230KV'	47(	0.03503	-0.03073	
ERE	'GILL ENERGY CENTER 69KV' 'HUTCHINSON ENERGY CENTER 115KV'	118 263	0.0043	WERE	'JEFFREY ENERGY CENTER 345KV' 'TECUMSEH ENERGY CENTER 115KV'	940		-0.03117	<u> </u>
ERE	HUTCHINSON ENERGY CENTER 115KV HUTCHINSON ENERGY CENTER 69KV	263	0.01315	WERE	'TECUMSEH ENERGY CENTER 115KV'	108		-0.03051	
ERE	'OXFORD 138KV' 'OXFORD 138KV'	3	0.00357	WERE	JEFFREY ENERGY CENTER 230KV JEFFREY ENERGY CENTER 345KV	47(	0.03503	-0.03146	
ERE EPL	'OXFORD 138KV' 'RUSSELL 115KV'	3 8.5	0.00357		'JEFFREY ENERGY CENTER 345KV' 'GRAY COUNTY WIND FARM 115KV'	940		-0.0319 -0.03324	<u> </u>
EPL	'RUSSELL 115KV'	8.5			JUDSON LARGE 115KV	34.36028		-0.03325	

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

Upgrade:	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	
Limiting Facility:	CIRCLEVILLE - KING HILL N.M. COOP 115KV CKT 1	
Direction:	From->To	
Line Outage:	HOYT - STRANGER CREEK 345KV CKT 1	
Flowgate:	57152573311567655677211307WP	
Date Redispatch Needed:	12/1/07 - 4/1/08	
Season Flowgate Identified:	2007 Winter Peak	
		Aggregate Relief
Reservation	Relief Amount	Amount
1034589	0.3	1.1

Reservation	Relief Amount	Aggregate Relief Amount							
1034589	0.3								
1034590	0.8	1.1 Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source		SF	Area	Sink	Decrement(MW)	GSF I	actor	Amount (MW)
WERE	BROWN COUNTY 115KV BROWN COUNTY 115KV	4.3	-0.29902	WERE	'ABILENE ENERGY CENTER 115KV' 'BPU - CITY OF MCPHERSON 115KV'	40	0.04381 0.0384	-0.34283 -0.33742	
WERE	BROWN COUNTY 115KV	4.3	-0.29902		'HUTCHINSON ENERGY CENTER 115KV'	120	0.03507	-0.33409	
WERE	BROWN COUNTY 115KV	4.3	-0.29902		JEFFREY ENERGY CENTER 230KV	486	0.05704	-0.35606	
WERE	BROWN COUNTY 115KV BROWN COUNTY 115KV	4.3	-0.29902		'JEFFREY ENERGY CENTER 345KV' 'SMOKEY HILLS 34KV'	924	0.06224 0.03745	-0.36126 -0.33647	
WERE	'BROWN COUNTY 115KV'	4.3	-0.29902	WERE	'TECUMSEH ENERGY CENTER 115KV'	111.2788	0.06035	-0.35937	
WERE	SOUTH SENECA 115KV	15	-0.26999		'JEFFREY ENERGY CENTER 230KV' 'JEFFREY ENERGY CENTER 345KV'	486	0.05704	-0.32703	
WERE	'SOUTH SENECA 115KV' 'SOUTH SENECA 115KV'	15	-0.26999		TECUMSEH ENERGY CENTER 115KV	111.2788	0.06035	-0.33034	
WERE	'BROWN COUNTY 115KV'	4.3	-0.29902	WERE	'CITY OF AUGUSTA 69KV'	24.09998	0.00207	-0.30109	1
WERE	BROWN COUNTY 115KV BROWN COUNTY 115KV	4.3		WERE	CITY OF MULVANE 69KV' CITY OF WELLINGTON 69KV'	3.791	0.00831	-0.30733	4
WERE	BROWN COUNTY 115KV	4.3		WERE	CITY OF WELLINGTON 69KV	39.5	0.00808	-0.3071	
WERE	'BROWN COUNTY 115KV'	4.3	-0.29902		'EVANS ENERGY CENTER 138KV'	340	0.0107	-0.30972	4
WERE	BROWN COUNTY 115KV BROWN COUNTY 115KV	4.3	-0.29902 -0.29902	WERE	'GILL ENERGY CENTER 138KV' 'WACO 138KV'	155	0.00936	-0.30838 -0.30852	4
WERE	'SOUTH SENECA 115KV'	4.5	-0.26999		'ABILENE ENERGY CENTER 115KV'	40	0.04381	-0.3138	-
WERE	'SOUTH SENECA 115KV'	15	-0.26999		'BPU - CITY OF MCPHERSON 115KV'	135	0.0384	-0.30839	4
WERE	'SOUTH SENECA 115KV' 'SOUTH SENECA 115KV'	15	-0.26999 -0.26999	WERE	'CITY OF MULVANE 69KV' 'EVANS ENERGY CENTER 138KV'	3.791 340	0.00831 0.0107	-0.2783 -0.28069	4
WERE	SOUTH SENECA 115KV	15	-0.26999		'GILL ENERGY CENTER 138KV'	155	0.00936	-0.27935	-
WERE	'SOUTH SENECA 115KV'	15	-0.26999		GILL ENERGY CENTER 138KV 'HUTCHINSON ENERGY CENTER 115KV'	120	0.03507	-0.30506	2
WERE	'SOUTH SENECA 115KV' 'SOUTH SENECA 115KV'	15 15	-0.26999 -0.26999	WERE	'SMOKEY HILLS 34KV' 'WACO 138KV'	50 17.93	0.03745	-0.30744 -0.27949	4
WERL	'GREENLEAF 115KV'	8.05	-0.12416		NORTH WEST GREAT BEND 115KV	3.75	0.02068	-0.27949	
WEPL	'GREENLEAF 115KV'	8.05	-0.12416		'PLAINVILLE 115KV'	5.25	0.01613	-0.14029	8
WEPL	'GREENLEAF 115KV' 'GREENLEAF 115KV'	8.05 8.05	-0.12416 -0.12416		'RUSSELL 115KV' 'BELOIT 115KV'	19.4 5.250004	0.01217	-0.13633 -0.11203	10
WEPL	'CLIFTON 115KV'	70		WEPL	'NORTH WEST GREAT BEND 115KV'	3.75	0.02068	-0.10405	11
WEPL	'CLIFTON 115KV'	70		WEPL	'PLAINVILLE 115KV'	5.25	0.01613	-0.0995	11
WEPL	'CLIFTON 115KV' 'GETTY 69KV'	70	-0.08337	WEPL	'RUSSELL 115KV' 'JEFFREY ENERGY CENTER 345KV'	19.4	0.01217	-0.09554 -0.06457	12 17
WERE	'GETTY 69KV'	35 35	-0.00233	WERE	'JEFFREY ENERGY CENTER 230KV'	486	0.05704	-0.05937	19
WERE	CHANUTE 69KV	45.782		WERE	JEFFREY ENERGY CENTER 345KV	924	0.06224	-0.05651	20
WERE	'CITY OF ERIE 69KV' 'CITY OF FREDONIA 69KV'	26.53 10.294	0.00573	WERE	JEFFREY ENERGY CENTER 345KV JEFFREY ENERGY CENTER 345KV	924	0.06224 0.06224	-0.05651 -0.05704	20
WERE	'CITY OF FREDONIA 69KV'	10.294	0.0052	WERE	'TECUMSEH ENERGY CENTER 115KV'	111.2788	0.06035	-0.05515	20
WERE	CITY OF GIRARD 69KV	9.21	0.00635	WERE	JEFFREY ENERGY CENTER 345KV	924	0.06224	-0.05589	20
WERE	'CITY OF IOLA 69KV' 'CITY OF WINFIELD 69KV'	23.063 34.68	0.00614	WERE	'JEFFREY ENERGY CENTER 345KV' 'JEFFREY ENERGY CENTER 345KV'	924	0.06224 0.06224	-0.0561	20
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.00637	WERE	'JEFFREY ENERGY CENTER 345KV'	924	0.06224	-0.05587	20
WERE	CHANUTE 69KV CITY OF ERIE 69KV	45.782 26.53	0.00573	WERE	TECUMSEH ENERGY CENTER 115KV TECUMSEH ENERGY CENTER 115KV	111.2788 111.2788	0.06035	-0.05462	21
WERE	'CITY OF GIRARD 69KV'	9.21	0.00635	WERE	TECUMSEH ENERGY CENTER 115KV	111.2788	0.06035	-0.054	21
WERE	'CITY OF IOLA 69KV'	23.063		WERE	'TECUMSEH ENERGY CENTER 115KV'	111.2788	0.06035	-0.05421	21
WERE	'CITY OF MULVANE 69KV' 'GILL ENERGY CENTER 138KV'	11.999 17.99999	0.00831	WERE	'JEFFREY ENERGY CENTER 345KV' 'JEFFREY ENERGY CENTER 345KV'	924	0.06224 0.06224	-0.05393 -0.05288	21
WERE	'GILL ENERGY CENTER 69KV'	118	0.00914	WERE	'JEFFREY ENERGY CENTER 345KV'	924	0.06224	-0.0531	21
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.00637		TECUMSEH ENERGY CENTER 115KV	111.2788	0.06035	-0.05398	21
WERE	'CHANUTE 69KV' 'CITY OF ERIE 69KV'	45.782 26.53	0.00573	WERE	'JEFFREY ENERGY CENTER 230KV' 'JEFFREY ENERGY CENTER 230KV'	486	0.05704 0.05704	-0.05131	22
WERE	'CITY OF FREDONIA 69KV'	10.294		WERE	'JEFFREY ENERGY CENTER 230KV'	486	0.05704	-0.05184	22
WERE	CITY OF GIRARD 69KV	9.21		WERE	JEFFREY ENERGY CENTER 230KV	486	0.05704	-0.05069	22
WERE	'CITY OF IOLA 69KV' 'CITY OF WINFIELD 69KV'	23.063 34.68	0.00614	WERE	JEFFREY ENERGY CENTER 230KV JEFFREY ENERGY CENTER 230KV	486	0.05704 0.05704	-0.0509	22
WERE	'EVANS ENERGY CENTER 138KV'	313	0.0107	WERE	'JEFFREY ENERGY CENTER 345KV'	924	0.06224	-0.05154	22
WERE	'NEOSHO ENERGY CENTER 138KV'	67 11.999		WERE	JEFFREY ENERGY CENTER 230KV	486	0.05704	-0.05067	22
WERE	CITY OF MULVANE 69KV GILL ENERGY CENTER 69KV	118	0.00914	WERE	'JEFFREY ENERGY CENTER 230KV' 'JEFFREY ENERGY CENTER 230KV'	486	0.05704 0.05704	-0.04873 -0.0479	23
WERE	'EVANS ENERGY CENTER 138KV'	313		WERE	'JEFFREY ENERGY CENTER 230KV'	486	0.05704	-0.04634	24
WERE	'GETTY 69KV' 'GILL ENERGY CENTER 138KV'	35 17.99999	-0.00233 0.00936	WERE	'ABILENE ENERGY CENTER 115KV' 'JEFFREY ENERGY CENTER 230KV'	40	0.04381 0.05704	-0.04614 -0.04768	24 24
WERE	'GETTY 69KV'	35	-0.00233	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	0.0384	-0.04073	28
WERE	'GETTY 69KV'	35	-0.00233	WERE	'SMOKEY HILLS 34KV'	50	0.03745	-0.03978	28
WERE	'CHANUTE 69KV' 'CITY OF ERIE 69KV'	45.782 26.53	0.00573	WERE	ABILENE ENERGY CENTER 115KV ABILENE ENERGY CENTER 115KV	40	0.04381 0.04381	-0.03808	29
WERE	'CITY OF FREDONIA 69KV'	10.294	0.0052	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.04381	-0.03861	29
WERE	'CITY OF IOLA 69KV'	23.063	0.00614	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.04381	-0.03767	30
WERE	'CITY OF WINFIELD 69KV' 'GETTY 69KV'	34.68 35	0.00689	WERE	'ABILENE ENERGY CENTER 115KV' 'HUTCHINSON ENERGY CENTER 115KV'	40	0.04381 0.03507	-0.03692 -0.0374	30
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.00637	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.04381	-0.03744	30
WERE	CITY OF MULVANE 69KV	11.999	0.00831	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.04381	-0.0355	32 32
WERE	'GILL ENERGY CENTER 69KV' 'GILL ENERGY CENTER 138KV'	118 17.99999	0.00914	WERE	ABILENE ENERGY CENTER 115KV ABILENE ENERGY CENTER 115KV	40	0.04381 0.04381	-0.03467 -0.03445	32
WERE	'CHANUTE 69KV'	45.782	0.00573	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	0.0384	-0.03267	34
WERE	CITY OF ERIE 69KV	26.53		WERE	BPU - CITY OF MCPHERSON 115KV	135	0.0384	-0.03267	34
WERE	'EVANS ENERGY CENTER 138KV' 'CHANUTE 69KV'	313 45.782	0.0107		'ABILENE ENERGY CENTER 115KV' 'SMOKEY HILLS 34KV'	40	0.04381 0.03745	-0.03311 -0.03172	34
WERE	'CITY OF ERIE 69KV'	26.53	0.00573	WERE	'SMOKEY HILLS 34KV'	50	0.03745	-0.03172	35
WERE	CITY OF IOLA 69KV	23.063	0.00614		BPU - CITY OF MCPHERSON 115KV	135	0.0384	-0.03226	35
WERE	'NEOSHO ENERGY CENTER 138KV' 'CITY OF IOLA 69KV'	67 23.063	0.00637	WERE	'BPU - CITY OF MCPHERSON 115KV' 'SMOKEY HILLS 34KV'	135	0.0384 0.03745	-0.03203	35
WERE	'CITY OF WINFIELD 69KV'	34.68	0.00689	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	0.0384	-0.03151	36
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.00637		'SMOKEY HILLS 34KV'	50	0.03745	-0.03108	36
WERE	'CITY OF WINFIELD 69KV'	34.68	0.00689	WERE	SMOKEY HILLS 34KV	50	0.03745	-0.03056	37

 Image: Non-Section 2016
 Image: I

imiting Facility:	KELLY - SOUTH SENECA 115KV CKT 1								
irection: ne Outage:	From->To CONCORDIA - EAST MANHATTAN 230KV CKT 1								
owgate:	57217573371587585686111207SH								
ate Redispatch Needed:	6/1 - 10/1 Until EOC of Upgrade								
eason Flowgate Identified:	2007 Summer Shoulder								
		Aggregate Relief							
eservation	Relief Amount	Amount							
1034589	0.	4 1.3							
1034590	0.	9 1.3							
		Maximum		Sink Control		Maximum			Redispatch
ource Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MV
ERE	'SOUTH SENECA 115KV'	15			CHANUTE 69KV	46.617		-0.86909	
ERE	'SOUTH SENECA 115KV' 'SOUTH SENECA 115KV'	15			CITY OF AUGUSTA 69KV'	26.1		-0.87018	
ERE	SOUTH SENECA 115KV	15			CITY OF BURLINGTON 69KV	10.5		-0.86882	
ERE	SOUTH SENECA 115KV	15		WERE	CITY OF ERIE 69KV	2.989		-0.86888	
ERE	'SOUTH SENECA 115KV'	15			CITY OF IOLA 69KV	19.865		-0.86906	
ERE	'SOUTH SENECA 115KV'	15			CITY OF MULVANE 69KV	6.189		-0.86827	
ERE	'SOUTH SENECA 115KV'	15			'CITY OF NEODESHA 69KV'	4.5		-0.86903	
ERE	'SOUTH SENECA 115KV'	15			'CITY OF WELLINGTON 69KV'	39.5		-0.86791	
ERE	'SOUTH SENECA 115KV'	15	-0.86957	WERE	'CITY OF WINFIELD 69KV'	39.90401	-0.00126	-0.86831	1
ERE	'SOUTH SENECA 115KV'	15			'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96		-0.86882	
ERE	'SOUTH SENECA 115KV'	15			'EVANS ENERGY CENTER 138KV'	328.6074		-0.86805	
ERE	'SOUTH SENECA 115KV'	15			'GILL ENERGY CENTER 138KV'	155		-0.86739	
ERE	'SOUTH SENECA 115KV'	15		WERE	'JEFFREY ENERGY CENTER 230KV'	486		-0.86618	
ERE	SOUTH SENECA 115KV	15			JEFFREY ENERGY CENTER 345KV	924		-0.86617	
'ERE	'SOUTH SENECA 115KV' 'SOUTH SENECA 115KV'	15			'LAWRENCE ENERGY CENTER 115KV' 'LAWRENCE ENERGY CENTER 230KV'	60 217.2095		-0.86859	
ERE	SOUTH SENECA 115KV	15			TECUMSEH ENERGY CENTER 115KV	217.2095		-0.86904	
ERE	SOUTH SENECA 115KV	15			WACO 138KV	17.947		-0.86746	
/EPL	CLIFTON 115KV	65			'GRAY COUNTY WIND FARM 115KV'	60		-0.51853	
'EPL	CLIFTON 115KV	65		WEPL	JUDSON LARGE 115KV	107.1247		-0.51857	
'EPL	'GREENLEAF 115KV'	10.15			'A. M. MULLERGREN GENERATOR 115KV'	63		-0.56329	
(EPL	'GREENLEAF 115KV'	10.15	-0.61731	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	-0.02822	-0.58909	ı
(EPL	'GREENLEAF 115KV'	10.15		WEPL	'JUDSON LARGE 115KV'	107.1247	-0.02818	-0.58913	5
'EPL	'GREENLEAF 115KV'	10.15			'SPEARVILLE WIND 34KV'	101		-0.58622	
ERE	'SOUTH SENECA 115KV'	15			'ABILENE ENERGY CENTER 115KV'	40		-0.85634	
ERE	'SOUTH SENECA 115KV'	15			'HUTCHINSON ENERGY CENTER 115KV'	120		-0.84248	
'ERE	'SOUTH SENECA 115KV'	15			'SMOKEY HILLS 34KV'	50		-0.83971	
EPL EPL	CLIFTON 115KV CLIFTON 115KV	65			'A. M. MULLERGREN GENERATOR 115KV' 'SPEARVILLE WIND 34KV'	63		-0.49273	
EPL	'BELOIT 115KV'	9.25			'A. M. MULLERGREN GENERATOR 115KV'	101		-0.51566	
EPL	BELOIT 115KV	9.25			GRAY COUNTY WIND FARM 115KV	60		-0.35642	
EPL	'BELOIT 115KV'	9.25			JUDSON LARGE 115KV	107.1247		-0.35646	
'EPL	BELOIT 115KV	9.25			SPEARVILLE WIND 34KV	107.1247		-0.35355	
EPL	'SMITH CENTER 115KV'	5.35			A. M. MULLERGREN GENERATOR 115KV	63		-0.23506	
EPL	'SMITH CENTER 115KV'	5.35			'GRAY COUNTY WIND FARM 115KV'	60		-0.26086	i
EPL	'SMITH CENTER 115KV'	5.35	-0.28908	WEPL	'JUDSON LARGE 115KV'	107.1247	-0.02818	-0.2609	9
EPL	'SMITH CENTER 115KV'	5.35			'SPEARVILLE WIND 34KV'	101		-0.25799	
EPL	'RUSSELL 115KV'	27.9			'GRAY COUNTY WIND FARM 115KV'	60		-0.11308	
EPL	'RUSSELL 115KV'	27.9			'JUDSON LARGE 115KV'	107.1247		-0.11312	
(EPL	'RUSSELL 115KV'	27.9			SPEARVILLE WIND 34KV	101		-0.11021	
EPL	'PLAINVILLE 115KV'	5.25			'GRAY COUNTY WIND FARM 115KV'	60		-0.09284	
EPL	PLAINVILLE 115KV	5.25			JUDSON LARGE 115KV	107.1247		-0.09288	
EPL EPL	'PLAINVILLE_115KV' 'RUSSELL_115KV'	5.25			'SPEARVILLE WIND 34KV' 'A. M. MULLERGREN GENERATOR 115KV'	101		-0.08997	

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

Jpgrade: .imiting Facility:	CLAY CENTER - GREENLEAF 115KV CKT 1 AND CHAF KELLY - SOUTH SENECA 115KV CKT 1								
Direction:	From->To								
ine Outage:	CONCORDIA (CONCORD6) 230/115/13.8KV TRANSFO	MED CKT 1							
lowgate:	57217573371CONCNCORD66311207SH								
ate Redispatch Needed:	6/1 - 10/1 Until EOC of Upgrade								
eason Flowgate Identified:	2007 Summer Shoulder		1						
		Aggregate Relief							
Reservation	Relief Amount	Amount							
1034589									
1034590	0.9								
		Maximum		nk Control		Maximum			Redispatch
ource Control Area	Source	Increment(MW)		ea	Sink	Decrement(MW)	GSF	Factor	Amount (MW
/ERE	'SOUTH SENECA 115KV'	15	-0.86957 W	ERE	'CHANUTE 69KV'	46.617	-0.00048	-0.86909	3
VERE	'SOUTH SENECA 115KV'	15			'CITY OF AUGUSTA 69KV'	26.1	0.00061	-0.87018	3
VERE	'SOUTH SENECA 115KV'	15	-0.86957 W	'ERE	'CITY OF BURLINGTON 69KV'	10.5	-0.00075	-0.86882	2
VERE	'SOUTH SENECA 115KV'	15	-0.86957 W	ERE	'CITY OF ERIE 69KV'	19.965	-0.00048	-0.86909	3
VERE	'SOUTH SENECA 115KV'	15	-0.86957 W	ERE	'CITY OF GIRARD 69KV'	2.989	-0.00069	-0.86888	3
/ERE	'SOUTH SENECA 115KV'	15			'CITY OF IOLA 69KV'	19.865	-0.00051	-0.86906	اذ
/ERE	'SOUTH SENECA 115KV'	15			'CITY OF MULVANE 69KV'	6.189	-0.0013	-0.86827	
/ERE	'SOUTH SENECA 115KV'	15			CITY OF NEODESHA 69KV	4.5		-0.86903	
/ERE	'SOUTH SENECA 115KV'	15			CITY OF WELLINGTON 69KV	39.5	-0.00166	-0.86791	
/ERE	'SOUTH SENECA 115KV'	15			CITY OF WINFIELD 69KV	39.90401	-0.00126	-0.86831	
/ERE	'SOUTH SENECA 115KV'	15			COFFEY COUNTY NO. 2 SHARPE 69KV	19.96	-0.00075	-0.86882	
/ERE	SOUTH SENECA 115KV	15			'EVANS ENERGY CENTER 138KV'	328.6074	-0.00152	-0.86805	
/ERE	SOUTH SENECA 115KV	15			'GILL ENERGY CENTER 138KV'	155	-0.00218	-0.86739	
/ERE	SOUTH SENECA 115KV	15			JEFFREY ENERGY CENTER 230KV	486		-0.86618	
/ERE	SOUTH SENECA 115KV	15			JEFFREY ENERGY CENTER 345KV	924	-0.00339	-0.86617	
/ERE	SOUTH SENECA 115KV	15			'LAWRENCE ENERGY CENTER 115KV'	924	-0.00034	-0.86859	
		15				217.2095	-0.00098	-0.8682	
/ERE	'SOUTH SENECA 115KV'				'LAWRENCE ENERGY CENTER 230KV'				
/ERE	'SOUTH SENECA 115KV'	15			'TECUMSEH ENERGY CENTER 115KV'	108	-0.00053	-0.86904	
/ERE	'SOUTH SENECA 115KV'	15			'WACO 138KV'	17.947	-0.00211	-0.86746	
VEPL	'CLIFTON 115KV'	65			'GRAY COUNTY WIND FARM 115KV'	60	-0.02822	-0.51853	
VEPL	'CLIFTON 115KV'	65			'JUDSON LARGE 115KV'	107.1247	-0.02818	-0.51857	
VEPL	'GREENLEAF 115KV'	10.15			'A. M. MULLERGREN GENERATOR 115KV'	63	-0.05402	-0.56329	
VEPL	'GREENLEAF 115KV'	10.15			'GRAY COUNTY WIND FARM 115KV'	60	-0.02822	-0.58909	
/EPL	'GREENLEAF 115KV'	10.15			'JUDSON LARGE 115KV'	107.1247	-0.02818	-0.58913	3
VEPL	'GREENLEAF 115KV'	10.15	-0.61731 W	EPL	'SPEARVILLE WIND 34KV'	101	-0.03109	-0.58622	2
/ERE	'SOUTH SENECA 115KV'	15	-0.86957 W	ERE	'ABILENE ENERGY CENTER 115KV'	40	-0.01323	-0.85634	4
ERE	'SOUTH SENECA 115KV'	15	-0.86957 W	'ERE	'HUTCHINSON ENERGY CENTER 115KV'	120	-0.02709	-0.84248	3
/ERE	'SOUTH SENECA 115KV'	15	-0.86957 W	ERE	'SMOKEY HILLS 34KV'	50	-0.02986	-0.83971	(
(EPL	CLIFTON 115KV	65	-0.54675 W	'EPL	'A. M. MULLERGREN GENERATOR 115KV'	63	-0.05402	-0.49273	3
/EPL	CLIFTON 115KV	65			'SPEARVILLE WIND 34KV'	101	-0.03109	-0.51566	
/EPL	'BELOIT 115KV'	9.25			'A. M. MULLERGREN GENERATOR 115KV'	63	-0.05402	-0.33062	
'EPL	'BELOIT 115KV'	9.25			'GRAY COUNTY WIND FARM 115KV'	60	-0.02822	-0.35642	
/EPL	'BELOIT 115KV'	9.25			JUDSON LARGE 115KV	107.1247	-0.02818	-0.35646	
/EPL	BELOIT 115KV	9.25			'SPEARVILLE WIND 34KV'	107.1247	-0.02010	-0.35355	
/EPL	'SMITH CENTER 115KV'	5.35			A. M. MULLERGREN GENERATOR 115KV	63	-0.05402	-0.23506	
EPL	'SMITH CENTER 115KV'	5.35			GRAY COUNTY WIND FARM 115KV	60	-0.03402	-0.23506	
EPL					JUDSON LARGE 115KV	107.1247	-0.02822	-0.26086	
EPL	SMITH CENTER 115KV	5.35			SPEARVILLE WIND 34KV			-0.25799	
	'SMITH CENTER 115KV'	5.35				101	-0.03109		
EPL	'RUSSELL 115KV'	27.9			'GRAY COUNTY WIND FARM 115KV'	60	-0.02822	-0.11308	
EPL	'RUSSELL 115KV'	27.9			'JUDSON LARGE 115KV'	107.1247		-0.11312	
/EPL	'RUSSELL 115KV'	27.9			'SPEARVILLE WIND 34KV'	101	-0.03109	-0.11021	
/EPL	'PLAINVILLE 115KV'	5.25			'GRAY COUNTY WIND FARM 115KV'	60	-0.02822	-0.09284	
/EPL	'PLAINVILLE 115KV'	5.25			'JUDSON LARGE 115KV'	107.1247	-0.02818	-0.09288	
VEPL	'PLAINVILLE 115KV'	5.25			'SPEARVILLE WIND 34KV'	101	-0.03109	-0.08997	
VEPL	'RUSSELL 115KV'	27.9	-0.1413 W		'A. M. MULLERGREN GENERATOR 115KV'	63	-0.05402	-0.08728	

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

Upgrade: Limiting Facility:	FPL SWITCH - MOORELAND 138KV CKT 1 OKGE AND FPL SWITCH - MOORELAND 138KV CKT 1	FFE SWITCH - WOO	RELAND	136KV CKT T W	TEC .				
Direction:	From->To								
Line Outage:	WOODWARD - WOODWARD 69KV CKT 1								
Flowgate:	55785559991547825609614106FA								
Date Redispatch Needed:	10/1/06 - 12/1/06								
Season Flowgate Identified:	2006 Fall Peak								
		Aggregate Relief							
Reservation	Relief Amount	Amount							
103297	73 31.0	31.0							
Source Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Redispatch Amount (MW)
OKGE	CONTINENTAL EMPIRE 138KV	fincrement(www) 63		0 OKGE	'FPLWND2 34KV'	102			-1 31
OKGE	CONTINENTAL EMPIRE 138KV	63		0 OKGE	SLEEPING BEAR 34KV	102			-1 31
OKGE	HORSESHOE LAKE 138KV	380		0 OKGE	'FPLWND2 34KV'	102			-1 31
OKGE	HORSESHOE LAKE 138KV	380.5		0 OKGE	'FPLWND2 34KV'	102			-1 31
OKGE	'HORSESHOE LAKE 138KV'	91		0 OKGE	'FPLWND2 34KV'	102			-1 31
OKGE	HORSESHOE LAKE 138KV	91		0 OKGE	I'SLEEPING BEAR 34KV	102			-1 31
OKGE	HORSESHOE LAKE 138KV	380		0 OKGE	SLEEPING BEAR 34KV	120			-1 31
OKGE	'HORSESHOE LAKE 138KV'	380.5		0 OKGE	SLEEPING BEAR 34KV	120			-1 31
OKGE	'HORSESHOE LAKE 69KV'	16		0 OKGE	'FPLWND2 34KV'	102			-1 31
OKGE	HORSESHOE LAKE 69KV	16		0 OKGE	SLEEPING BEAR 34KV	102			-1 31
OKGE	MCCLAIN 138KV	42		0 OKGE	'FPLWND2 34KV'	102			-1 31
OKGE	'MCCLAIN 138KV'	42		0 OKGE	SLEEPING BEAR 34KV	102			-1 31
OKGE	'MUSKOGEE 161KV'	31		0 OKGE	'FPLWND2 34KV'	102			-1 31
OKGE	'MUSKOGEE 161KV'	166		0 OKGE	'FPLWND2 34KV'	102			-1 31
OKGE	'MUSKOGEE 161KV'	31		0 OKGE	'SLEEPING BEAR 34KV'	120			-1 31
OKGE	'MUSKOGEE 161KV'	166		0 OKGE	'SLEEPING BEAR 34KV'	120			-1 31
OKGE	'MUSKOGEE 345KV'	20		0 OKGE	'FPLWND2 34KV'	102			-1 31
OKGE	'MUSKOGEE 345KV'	20		0 OKGE	SLEEPING BEAR 34KV	102			-1 31
OKGE	'MUSTANG 138KV'	365.5		0 OKGE	'FPLWND2 34KV'	102			-1 31
OKGE	'MUSTANG 138KV'	365.5		0 OKGE	'SLEEPING BEAR 34KV'	120			-1 31
OKGE	'MUSTANG 69KV'	106		0 OKGE	'FPLWND2 34KV'	102			-1 31
OKGE	'MUSTANG 69KV'	106		0 OKGE	SLEEPING BEAR 34KV	120			-1 31
OKGE	'ONE OAK 345KV'	236		0 OKGE	'FPLWND2 34KV'	102			-1 31
OKGE	ONE OAK 345KV	236		0 OKGE	'SLEEPING BEAR 34KV'	120		1	-1 31
OKGE	'REDBUD 345KV'	900		0 OKGE	'FPLWND2 34KV'	102	2	1	-1 31
OKGE	'REDBUD 345KV'	421.65		0 OKGE	'FPLWND2 34KV'	102	2	1	-1 31
OKGE	'REDBUD 345KV'	421.65		0 OKGE	'SLEEPING BEAR 34KV'	120	)	1	-1 31
OKGE	'REDBUD 345KV'	900		0 OKGE	'SLEEPING BEAR 34KV'	120	)	1	-1 31
OKGE	'SEMINOLE 138KV'	262.1518		0 OKGE	'FPLWND2 34KV'	102			-1 31
OKGE	'SEMINOLE 138KV'	262.1518		0 OKGE	'SLEEPING BEAR 34KV'	120	)	1	-1 31
OKGE	'SEMINOLE 345KV'	507.6		0 OKGE	'FPLWND2 34KV'	102			-1 31
OKGE	'SEMINOLE 345KV'	507.6		0 OKGE	'SLEEPING BEAR 34KV'	120			-1 31
OKGE	'SOONER 138KV'	24.99997		0 OKGE	'FPLWND2 34KV'	102			-1 31
OKGE	'SOONER 138KV'	24.99997		0 OKGE	'SLEEPING BEAR 34KV'	120			-1 3'
OKGE	'SOUTH 4TH ST 69KV'	42.7		0 OKGE	'FPLWND2 34KV'	102		1	-1 3
OKGE	'SOUTH 4TH ST 69KV'	42.7		0 OKGE	'SLEEPING BEAR 34KV'	120			-1 3'
OKGE	'TINKER 5G 138KV'	62		0 OKGE	'FPLWND2 34KV'	102		1	-1 31
OKGE	'TINKER 5G 138KV'	62		0 OKGE	'SLEEPING BEAR 34KV'	120		1	-1 31

UKGE [INKER 3G 138KV ] 62] UDKGE [SLEEPING BEAR 34K Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified. Factor = Source GSF - Sink GSF Redispatch Amount = Relief Amount / Factor

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

FPL SWITCH - MOORELAND 138KV CKT 1 OKGE AND FPL SWITCH - MOORELAND 138KV CKT 1 WFEC FPL SWITCH - MOORELAND 138KV CKT 1 From->To WOODWARD - WOODWARD 69KV CKT 1 55785559991547825609614106SH

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Season Flowgate Identifie		Aggregate Relief							
Reservation	Relief Amount	Amount							
103	2973	20.5 20.5	5						
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
OKGE	'CONTINENTAL EMPIRE 138KV'	63		OKGE	'FPLWND2 34KV'	102		1 -1	
OKGE	CONTINENTAL EMPIRE 138KV	63		OKGE	'SLEEPING BEAR 34KV'	120		1 -1	
OKGE	'HORSESHOE LAKE 138KV'	91		OKGE	'FPLWND2 34KV'	102		1 -1	
OKGE	'HORSESHOE LAKE 138KV'	380		OKGE	'SLEEPING BEAR 34KV'	120		1 -1	
DKGE	'HORSESHOE LAKE 138KV'	91		OKGE	'SLEEPING BEAR 34KV'	120		1 -1	
DKGE	'HORSESHOE LAKE 138KV'	380.5		OKGE	'SLEEPING BEAR 34KV'	120		1 -1	
DKGE	'HORSESHOE LAKE 69KV'	16		OKGE	'FPLWND2 34KV'	102		1 -1	
DKGE	'HORSESHOE LAKE 69KV'	16	6 0	OKGE	'SLEEPING BEAR 34KV'	120		1 -1	
DKGE	'MCCLAIN 138KV'	42	2 0	OKGE	'FPLWND2 34KV'	102		1 -1	
OKGE	'MCCLAIN 138KV'	42	2 0	OKGE	SLEEPING BEAR 34KV	120		1 -1	
OKGE	'MUSKOGEE 161KV'	31	1 0	OKGE	'FPLWND2 34KV'	102		1 -1	
DKGE	'MUSKOGEE 161KV'	166	3 0	OKGE	'FPLWND2 34KV'	102		1 -1	
DKGE	'MUSKOGEE 161KV'	166	6 0	OKGE	'SLEEPING BEAR 34KV'	120		1 -1	
DKGE	'MUSKOGEE 161KV'	31	1 0	OKGE	'SLEEPING BEAR 34KV'	120		1 -1	
OKGE	'MUSKOGEE 345KV'	20	0 0	OKGE	'FPLWND2 34KV'	102		1 -1	
DKGE	'MUSKOGEE 345KV'	20	0 0	OKGE	'SLEEPING BEAR 34KV'	120		1 -1	
DKGE	'MUSTANG 138KV'	365.5	5 0	OKGE	SLEEPING BEAR 34KV	120		1 -1	
DKGE	'MUSTANG 69KV'	106	6 0	OKGE	'FPLWND2 34KV'	102		1 -1	
DKGE	'MUSTANG 69KV'	106	6 0	OKGE	'SLEEPING BEAR 34KV'	120		1 -1	
DKGE	'ONE OAK 345KV'	236	6 0	OKGE	'SLEEPING BEAR 34KV'	120		1 -1	
OKGE	'REDBUD 345KV'	460	0 0	OKGE	'FPLWND2 34KV'	102		1 -1	
DKGE	'REDBUD 345KV'	421.65	5 0	OKGE	'FPLWND2 34KV'	102		1 -1	
DKGE	'REDBUD 345KV'	460	0 0	OKGE	SLEEPING BEAR 34KV	120		1 -1	
KGE	'REDBUD 345KV'	421.65	5 0	OKGE	SLEEPING BEAR 34KV	120		1 -1	
DKGE	'SEMINOLE 138KV'	46.75327	7 O	OKGE	SLEEPING BEAR 34KV	120		1 -1	
KGE	'SEMINOLE 345KV'	406.08	3 0	OKGE	'FPLWND2 34KV'	102		1 -1	
KGE	'SEMINOLE 345KV'	406.08	3 0	OKGE	SLEEPING BEAR 34KV	120		1 -1	
KGE	SOONER 138KV	24,99997		OKGE	'FPLWND2 34KV'	102		1 -1	
KGE	'SOONER 138KV'	24.99997		OKGE	'SLEEPING BEAR 34KV'	120		1 -1	
DKGE	SOUTH 4TH ST 69KV	42.7		OKGE	'FPLWND2 34KV'	102		1 -1	
KGE	SOUTH 4TH ST 69KV	42.7		OKGE	SLEEPING BEAR 34KV	120		1 -1	
DKGE	TINKER 5G 138KV	62		OKGE	'FPLWND2 34KV'	102		1 -1	
DKGE	TINKER 5G 138KV	62		OKGE	SLEEPING BEAR 34KV	120		1 -1	

 [OKGE]
 [TINKER 5G 138KV]
 62
 0[OKGE]
 [SLEEPING BEAR 34K]

 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

irection:	From->To								
ine Outage:	WOODWARD - WOODWARD 69KV CKT 1								
lowgate:	55785559991547825609614306SP								
ate Redispatch Needed:	6/1/06 - 10/1/06								
eason Flowgate Identified:	2006 Summer Peak								
		Aggregate Relief							
eservation	Relief Amount	Amount							
1032973	11.5	11.5							
		Maximum		Sink Control		Maximum			Redispatch
ource Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
KGE	'CONTINENTAL EMPIRE 138KV'	63		OKGE	'FPLWND2 34KV'	101.9968			1
KGE	'CONTINENTAL EMPIRE 138KV'	63		OKGE	'SLEEPING BEAR 34KV'	120			1
KGE	'HORSESHOE LAKE 138KV'	337.7		OKGE	'FPLWND2 34KV'	101.9968			1
KGE	'HORSESHOE LAKE 138KV'	380.5		OKGE	'FPLWND2 34KV'	101.9968		1 -	1
KGE	'HORSESHOE LAKE 138KV'	380.5		OKGE	'SLEEPING BEAR 34KV'	120			1
KGE	'HORSESHOE LAKE 138KV'	337.7		OKGE	'SLEEPING BEAR 34KV'	120			1
KGE	'MCCLAIN 138KV'	42		OKGE	'FPLWND2 34KV'	101.9968		-	1
KGE	'MCCLAIN 138KV'	42		OKGE	'SLEEPING BEAR 34KV'	120			1
KGE	'MUSKOGEE 161KV'	31		OKGE	'FPLWND2 34KV'	101.9968			1
KGE	'MUSKOGEE 161KV'	166		OKGE	'FPLWND2 34KV'	101.9968	3	1 -	1
KGE	'MUSKOGEE 161KV'	31		OKGE	'SLEEPING BEAR 34KV'	120			1
KGE	'MUSKOGEE 161KV'	166		OKGE	'SLEEPING BEAR 34KV'	120			1
KGE	'MUSTANG 138KV'	147.2756		OKGE	'FPLWND2 34KV'	101.9968	3	1 -	-1
KGE	'MUSTANG 138KV'	147.2756		OKGE	'SLEEPING BEAR 34KV'	120			1
KGE	'ONE OAK 345KV'	204		OKGE	'FPLWND2 34KV'	101.9968			1
KGE	'ONE OAK 345KV'	204		OKGE	'SLEEPING BEAR 34KV'	120			1
KGE	'REDBUD 345KV'	460		OKGE	'FPLWND2 34KV'	101.9968			1
KGE	'REDBUD 345KV'	421.65		OKGE	'FPLWND2 34KV'	101.9968			1
KGE	'REDBUD 345KV'	421.65		OKGE	'SLEEPING BEAR 34KV'	120			1
KGE	'REDBUD 345KV'	460		OKGE	'SLEEPING BEAR 34KV'	120			1
KGE	'SEMINOLE 138KV'	17.66129		OKGE	'FPLWND2 34KV'	101.9968	3	1 -	1
KGE	'SEMINOLE 138KV'	17.66129		OKGE	'SLEEPING BEAR 34KV'	120		1 -	1
KGE	'SOONER 138KV'	24.99997		OKGE	'FPLWND2 34KV'	101.9968			1
KGE	'SOONER 138KV'	24.99997		OKGE	'SLEEPING BEAR 34KV'	120		1 -	1
KGE	'SOUTH 4TH ST 69KV'	42.7		OKGE	'FPLWND2 34KV'	101.9968			1
KGE	'SOUTH 4TH ST 69KV'	42.7		OKGE	'SLEEPING BEAR 34KV'	120			1
KGE	'TINKER 5G 138KV'	62		OKGE	'FPLWND2 34KV'	101.9968		1 -	1
KGE	TINKER 5G 138KV timum Increment were determine from the Souce and Sink	62		OKGE	'SLEEPING BEAR 34KV'	120	)	1 -	1

Direction:	From->To								
ine Outage:	DEWEY - IODINE 138KV CKT 1								
lowgate:	55785559991547875479611206WP								
ate Redispatch Needed:	12/1/06 - 4/1/07								
eason Flowgate Identified:	2006 Winter Peak								
		Aggregate Relief							
leservation	Relief Amount	Amount							
1023236									
1032973	3 7.8	8.1 Maximum		Sink Control		Maximum		-	Redispatch
ource Control Area	Source		GSF	Area	Sink		GSF	Factor	Amount (MW)
KGE	AES 161KV	10	0.00003		FPLWND2 34KV	102	0.97309	-0.97306	
KGE	CONTINENTAL EMPIRE 138KV	63	-0.00045		'FPLWND2 34KV'	102	0.97309	-0.97306	
KGE	HORSESHOE LAKE 138KV	380	0.00043		'FPLWND2 34KV'	102	0.97309	-0.97286	
KGE	HORSESHOE LAKE 138KV	380.5	0.00023		'FPLWND2 34KV'	102	0.97309	-0.97286	
DKGE	HORSESHOE LAKE 138KV	360.5	0.00023		'FPLWND2 34KV'	102	0.97309	-0.97286	
DKGE	HORSESHOE LAKE 69KV	16	0.00022		'FPLWND2 34KV'	102	0.97309	-0.97287	
KGE	'MCCLAIN 138KV'	42	0.00036		'FPLWND2 34KV'	102	0.97309	-0.97273	
KGE	'MUSKOGEE 161KV'	31	0.00004		'FPLWND2 34KV'	102	0.97309	-0.97305	
DKGE	'MUSKOGEE 161KV'	166	0.00004		'FPLWND2 34KV'	102	0.97309	-0.97305	
KGE	'MUSKOGEE 345KV'	20	0.00005		'FPLWND2 34KV'	102	0.97309	-0.97304	
DKGE	'MUSTANG 138KV'	365.5	0.00036		'FPLWND2 34KV'	102	0.97309	-0.97273	
KGE	'MUSTANG 69KV'	106	0.0004		'FPLWND2 34KV'	102	0.97309	-0.97269	
KGE	'ONE OAK 345KV'	336	0.00012		'FPLWND2 34KV'	102	0.97309	-0.97297	
KGE	'REDBUD 345KV'	900	0.00014		'FPLWND2 34KV'	102	0.97309	-0.97295	
KGE	'REDBUD 345KV'	421.65	0.00014		'FPLWND2 34KV'	102	0.97309	-0.97295	
DKGE	'SEMINOLE 138KV'	395.9377	0.00019	OKGE	'FPLWND2 34KV'	102	0.97309	-0.9729	
OKGE	'SEMINOLE 345KV'	558.5136	0.00019	OKGE	'FPLWND2 34KV'	102	0.97309	-0.9729	
DKGE	'SOONER 138KV'	24.99997	-0.00031	OKGE	'FPLWND2 34KV'	102	0.97309	-0.9734	
DKGE	'SOUTH 4TH ST 69KV'	42.7	-0.00162	OKGE	'FPLWND2 34KV'	102	0.97309	-0.97471	
DKGE	'TINKER 5G 138KV'	62	0.00025	OKGE	'FPLWND2 34KV'	102	0.97309	-0.97284	
DKGE	'AES 161KV'	10	0.00003	OKGE	'SLEEPING BEAR 34KV'	120	0.81258	-0.81255	
DKGE	'CONTINENTAL EMPIRE 138KV'	63	-0.00045		'SLEEPING BEAR 34KV'	120	0.81258	-0.81303	
DKGE	'HORSESHOE LAKE 138KV'	380.5	0.00023		'SLEEPING BEAR 34KV'	120	0.81258	-0.81235	
DKGE	'HORSESHOE LAKE 138KV'	380	0.00023		'SLEEPING BEAR 34KV'	120	0.81258	-0.81235	
DKGE	'HORSESHOE LAKE 138KV'	91	0.00023		'SLEEPING BEAR 34KV'	120	0.81258	-0.81235	
DKGE	'HORSESHOE LAKE 69KV'	16	0.00022		'SLEEPING BEAR 34KV'	120	0.81258	-0.81236	
DKGE	'MCCLAIN 138KV'	42	0.00036		'SLEEPING BEAR 34KV'	120	0.81258	-0.81222	
DKGE	'MUSKOGEE 161KV'	31	0.00004		'SLEEPING BEAR 34KV'	120	0.81258	-0.81254	
DKGE	'MUSKOGEE 161KV'	166	0.00004		'SLEEPING BEAR 34KV'	120	0.81258	-0.81254	
DKGE	'MUSKOGEE 345KV'	20	0.00005		'SLEEPING BEAR 34KV'	120	0.81258	-0.81253	
DKGE	'MUSTANG 138KV'	365.5	0.00036		'SLEEPING BEAR 34KV'	120	0.81258	-0.81222	
DKGE	'MUSTANG 69KV'	106	0.0004		'SLEEPING BEAR 34KV'	120	0.81258	-0.81218	
DKGE	ONE OAK 345KV	336	0.00012		SLEEPING BEAR 34KV	120	0.81258	-0.81246	
DKGE	'REDBUD 345KV'	900	0.00014		SLEEPING BEAR 34KV	120	0.81258	-0.81244	
DKGE	'REDBUD 345KV'	421.65	0.00014		SLEEPING BEAR 34KV	120	0.81258	-0.81244	
KGE	SEMINOLE 138KV	395.9377	0.00019		SLEEPING BEAR 34KV	120	0.81258	-0.81239	
KGE	SEMINOLE 345KV	558.5136	0.00019		SLEEPING BEAR 34KV	120	0.81258	-0.81239	
OKGE	SOONER 138KV	24.99997	-0.00031		SLEEPING BEAR 34KV	120	0.81258	-0.81289	
KGE	SOUTH 4TH ST 69KV	42.7	-0.00162		SLEEPING BEAR 34KV	120	0.81258	-0.8142	
DKGE	TINKER 5G 138KV'	62	0.00025		SLEEPING BEAR 34KV	120	0.81258	-0.81233	
WFEC	MORLND 138KV' kimum Increment were determine from the Souce and Sink	166.1695	-0.02454		'SLEEPING BEAR 138KV'	80	0.05339	-0.07793	

Redispatch Amount = Relier Ar	nount / Factor		
Upgrade: Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed: Season Flowgate Identified:	FPL SWITCH - MOORELAND 138KV CKT 1 OKGE AND FPL SWITCH - MOORELAND 138KV CKT 1 From->To DEWEY - IODINE 138KV CKT 1 55785559991547875479611207FA Starling 2007 10/1 - 12/1 Until EOC of Upgrade 2007 Fall Peak	FPL SWITCH - MOC	ORELAND 138KV CKT 1 WFEC
Reservation	Relief Amount	Aggregate Relief Amount	
1023236	0.4	10.2	
1032973	9.7	10.2	

1032	.973	0.7 10.2		1			1		
Control Arrow	0	Maximum	005	Sink Control	01-1	Maximum	005		Redispatch
ource Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF		Amount (MW
KGE	CONTINENTAL EMPIRE 138KV	64	-0.00045		'FPLWND2 34KV'	102		-0.97354	
KGE	'HORSESHOE LAKE 138KV'	380	0.00022		'FPLWND2 34KV'	102		-0.97287	
KGE	'HORSESHOE LAKE 138KV'	380.5	0.00022		'FPLWND2 34KV'	102		-0.97287	
KGE	'HORSESHOE LAKE 138KV'	91	0.00022		'FPLWND2 34KV'	102		-0.97287	
KGE	'HORSESHOE LAKE 69KV'	16	0.00021		'FPLWND2 34KV'	102		-0.97288	
KGE	'MCCLAIN 138KV'	42	0.00034		'FPLWND2 34KV'	102		-0.97275	
KGE	'MUSKOGEE 161KV'	166	0.00003		'FPLWND2 34KV'	102		-0.97306	
KGE	'MUSKOGEE 161KV'	31	0.00003		'FPLWND2 34KV'	102		-0.97306	
KGE	'MUSKOGEE 345KV'	20	0.00004		'FPLWND2 34KV'	102		-0.97305	
KGE	'MUSTANG 138KV'	365.5	0.00035		'FPLWND2 34KV'	102		-0.97274	
KGE	'MUSTANG 69KV'	106	0.0004		'FPLWND2 34KV'	102		-0.97269	
KGE	'ONE OAK 345KV'	323	0.00013		'FPLWND2 34KV'	102		-0.97296	
KGE	'REDBUD 345KV'	421.65	0.00014		'FPLWND2 34KV'	102		-0.97295	
KGE	'REDBUD 345KV'	900	0.00014	OKGE	'FPLWND2 34KV'	102	0.97309	-0.97295	
KGE	'SEMINOLE 138KV'	35.77591	0.00018	OKGE	'FPLWND2 34KV'	102	0.97309	-0.97291	
KGE	'SEMINOLE 345KV'	507.6	0.00018	OKGE	'FPLWND2 34KV'	102	0.97309	-0.97291	
KGE	'SMITH COGEN 138KV'	110	0.00034	OKGE	'FPLWND2 34KV'	102	0.97309	-0.97275	
(GE	'SOONER 138KV'	24.99997	-0.00031	OKGE	'FPLWND2 34KV'	102	0.97309	-0.9734	
GE	'SOUTH 4TH ST 69KV'	42.7	-0.00162	OKGE	'FPLWND2 34KV'	102	0.97309	-0.97471	
KGE	'TINKER 5G 138KV'	62	0.00024		'FPLWND2 34KV'	102	0.97309	-0.97285	
KGE	CONTINENTAL EMPIRE 138KV	64	-0.00045	OKGE	SLEEPING BEAR 34KV	120	0.81258	-0.81303	
KGE	'HORSESHOE LAKE 138KV'	91	0.00022	OKGE	'SLEEPING BEAR 34KV'	120	0.81258	-0.81236	
KGE	'HORSESHOE LAKE 138KV'	380	0.00022	OKGE	SLEEPING BEAR 34KV	120	0.81258	-0.81236	
KGE	'HORSESHOE LAKE 138KV'	380.5	0.00022	OKGE	SLEEPING BEAR 34KV	120	0.81258	-0.81236	
KGE	'HORSESHOE LAKE 69KV'	16	0.00021	OKGE	SLEEPING BEAR 34KV	120	0.81258	-0.81237	
KGE	'MCCLAIN 138KV'	42	0.00034	OKGE	'SLEEPING BEAR 34KV'	120	0.81258	-0.81224	
KGE	'MUSKOGEE 161KV'	31	0.00003		'SLEEPING BEAR 34KV'	120	0.81258	-0.81255	
KGE	'MUSKOGEE 161KV'	166	0.00003		'SLEEPING BEAR 34KV'	120		-0.81255	
KGE	'MUSKOGEE 345KV'	20	0.00004		SLEEPING BEAR 34KV	120		-0.81254	
KGE	'MUSTANG 138KV'	365.5	0.00035		'SLEEPING BEAR 34KV'	120	0.81258	-0.81223	
KGE	'MUSTANG 69KV'	106		OKGE	SLEEPING BEAR 34KV	120		-0.81218	
KGE	ONE OAK 345KV	323	0.00013		SLEEPING BEAR 34KV	120		-0.81245	
KGE	'REDBUD 345KV'	421.65	0.00014		'SLEEPING BEAR 34KV'	120		-0.81244	
KGE	'REDBUD 345KV'	900	0.00014		SLEEPING BEAR 34KV	120		-0.81244	
KGE	SEMINOLE 138KV'	35.77591	0.00018		SLEEPING BEAR 34KV	120		-0.8124	
(GE	SEMINOLE 345KV	507.6	0.00018		SLEEPING BEAR 34KV	120		-0.8124	
GE	'SMITH COGEN 138KV'	110	0.00034		SLEEPING BEAR 34KV	120		-0.81224	
KGE	SOONER 138KV	24,99997	-0.00034		SLEEPING BEAR 34KV	120		-0.81289	
KGE	SOUTH 4TH ST 69KV	42.7	-0.00162		SLEEPING BEAR 34KV	120		-0.8142	
KGE	'TINKER 5G 138KV'	42.7	0.00024		SLEEPING BEAR 34KV	120		-0.81234	
FEC	MORLND 138KV	320			SLEEPING BEAR 34KV	120		-0.81234	
	MORLND 138KV Maximum Increment were determine from the Souce and Sir					80	0.05338	-0.07792	L

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

Upgrade:	FPL SWITCH - MOORELAND 138KV CKT 1 OKGE AND	FPL SWITCH - MOC	RELAND 138KV CKT 1 W	FEC				
Limiting Facility:	FPL SWITCH - MOORELAND 138KV CKT 1							
Direction:	From->To							
Line Outage:	DEWEY - IODINE 138KV CKT 1							
Flowgate:	55785559991547875479611207SH							
Date Redispatch Needed:	6/1 - 10/1 Until EOC of Upgrade							
Season Flowgate Identified:	2007 Summer Shoulder							
		Aggregate Relief						
Reservation	Relief Amount	Amount						
1023236		0.1						
1032973	3 0.1	0.1						
		Maximum	Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
OKGE	'HORSESHOE LAKE 138KV'	380	0.00022 OKGE	'FPLWND2 34KV'	102	0.97309	-0.97287	
OKGE	'HORSESHOE LAKE 138KV'	380.5	0.00022 OKGE	'FPLWND2 34KV'	102	0.97309	-0.97287	(
OKGE	'HORSESHOE LAKE 138KV'	380	0.00022 OKGE	'SLEEPING BEAR 34KV'	120			
OKGE	'HORSESHOE LAKE 138KV'	380.5	0.00022 OKGE	'SLEEPING BEAR 34KV'	120			ì
OKGE	'MCCLAIN 138KV'	42		'FPLWND2 34KV'	102			
OKGE	'MCCLAIN 138KV'	42	0.00034 OKGE	'SLEEPING BEAR 34KV'	120	0.81258	-0.81224	1
OKGE	'MUSKOGEE 161KV'	166	0.00003 OKGE	'FPLWND2 34KV'	102		-0.97306	
OKGE	'MUSKOGEE 161KV'	31		'FPLWND2 34KV'	102			
OKGE	'MUSKOGEE 161KV'	166	0.00003 OKGE	SLEEPING BEAR 34KV	120			
OKGE	'MUSKOGEE 161KV'	31		SLEEPING BEAR 34KV	120			
OKGE	'MUSKOGEE 345KV'	20		'FPLWND2 34KV'	102			
OKGE	'MUSKOGEE 345KV'	20	0.00004 OKGE	SLEEPING BEAR 34KV	120		-0.81254	
OKGE	'MUSTANG 138KV'	365.5	0.00035 OKGE	'FPLWND2 34KV'	102			
OKGE	'MUSTANG 138KV'	365.5	0.00035 OKGE	SLEEPING BEAR 34KV	102			
OKGE	'MUSTANG 69KV'	57.60058	0.0004 OKGE	'FPLWND2 34KV'	102			
OKGE	'MUSTANG 69KV'	57.60058	0.0004 OKGE	SLEEPING BEAR 34KV	102		-0.81218	
OKGE	ONE OAK 345KV	274	0.00013 OKGE	'FPLWND2 34KV'	120			
OKGE	ONE OAK 345KV	274	0.00013 OKGE	SLEEPING BEAR 34KV	102		-0.81245	
OKGE	'REDBUD 345KV'	900	0.00013 OKGE	'FPLWND2 34KV'	120			
OKGE	'REDBUD 345KV'	421.65	0.00014 OKGE	'FPLWND2 34KV'	102			
OKGE	REDBUD 345KV	421.03	0.00014 OKGE	SLEEPING BEAR 34KV	102			
OKGE	REDBUD 345KV	421.65	0.00014 OKGE	SLEEPING BEAR 34KV	120		-0.81244	
OKGE	SEMINOLE 138KV	21.98755	0.00014 OKGE	'FPLWND2 34KV'	120		-0.97291	
OKGE	SEMINOLE 138KV	21.98755	0.00018 OKGE	SLEEPING BEAR 34KV	102		-0.97291	
OKGE	SOONER 138KV	21.96755	-0.00031 OKGE	'FPLWND2 34KV'	120			
OKGE	SOONER 138KV	24.99997	-0.00031 OKGE	SLEEPING BEAR 34KV				
	SOUTH 4TH ST 69KV			IFPLWND2 34KV	120		-0.81289	
OKGE OKGE	SOUTH 4TH ST 69KV	42.7	-0.00162 OKGE -0.00162 OKGE		102			
		42.7		SLEEPING BEAR 34KV				
OKGE	'TINKER 5G 138KV'	62		'FPLWND2 34KV'	102			
OKGE	'TINKER 5G 138KV'	62		SLEEPING BEAR 34KV	120			
OKGE	'WOODWARD 24KV'	9.3		'FPLWND2 34KV'	102		-0.16051	
WFEC	MORLND 138KV	173.8576		'SLEEPING BEAR 138KV'	80	0.05338	-0.07792	2

TX3876 -002494[WFEC ]SLEEPING BEAR 1388 Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified. Factor = Source GSF - Sink GSF Redispatch Amount = Relief Amount / Factor

Upgrade:	FPL SWITCH - MOORELAND 138KV CKT 1 OKGE AND	FPL SWITCH - MOO	ORELAND 1	38KV CKT 1 W	FEC				
Limiting Facility:	FPL SWITCH - MOORELAND 138KV CKT 1								
Direction:	From->To								
Line Outage:	DEWEY - IODINE 138KV CKT 1								
Flowgate:	55785559991547875479611207WP								
Date Redispatch Needed:	12/1/07 - 4/1/08								
Season Flowgate Identified:	2007 Winter Peak		_						
		Aggregate Relief							
Reservation	Relief Amount	Amount							
102323		7.4							
103297	73 7.1	7.4							
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
OKGE	'AES 161KV'	78.99999			'FPLWND2 34KV'	101.9968			
OKGE	'HORSESHOE LAKE 138KV'	380.5			'FPLWND2 34KV'	101.9968			
OKGE	'HORSESHOE LAKE 138KV'	91	0.00022		'FPLWND2 34KV'	101.9968			
OKGE	'HORSESHOE LAKE 138KV'	380	0.00022		'FPLWND2 34KV'	101.9968			
OKGE	'HORSESHOE LAKE 69KV'	16			'FPLWND2 34KV'	101.9968			
OKGE	'MCCLAIN 138KV'	42			'FPLWND2 34KV'	101.9968			
OKGE	'MUSKOGEE 161KV'	31			'FPLWND2 34KV'	101.9968			
OKGE	'MUSKOGEE 161KV'	166			'FPLWND2 34KV'	101.9968			
OKGE	'MUSKOGEE 345KV'	20	0.00004		'FPLWND2 34KV'	101.9968			
OKGE	'MUSTANG 138KV'	365.5	0.00035		'FPLWND2 34KV'	101.9968			
OKGE	'MUSTANG 69KV'	106	0.0004		'FPLWND2 34KV'	101.9968			
OKGE	'ONE OAK 345KV'	319			'FPLWND2 34KV'	101.9968			
OKGE	'REDBUD 345KV'	421.65	0.00014		'FPLWND2 34KV'	101.9968			
OKGE	'REDBUD 345KV'	900	0.00014		'FPLWND2 34KV'	101.9968			
OKGE	'SEMINOLE 138KV'	309.9816	0.00018		'FPLWND2 34KV'	101.9968			
OKGE	'SEMINOLE 345KV'	507.6	0.00018		'FPLWND2 34KV'	101.9968			
OKGE	'SOONER 138KV'	24.99997	-0.00031		'FPLWND2 34KV'	101.9968			
OKGE	'SOUTH 4TH ST 69KV'	42.7	-0.00162		'FPLWND2 34KV'	101.9968			
OKGE	'TINKER 5G 138KV'	62	0.00024		'FPLWND2 34KV'	101.9968			
OKGE	'AES 161KV'	78.99999	0.00003		'SLEEPING BEAR 34KV'	120			
OKGE	'HORSESHOE LAKE 138KV'	91	0.00022		'SLEEPING BEAR 34KV'	120			
OKGE	'HORSESHOE LAKE 138KV'	380.5	0.00022		'SLEEPING BEAR 34KV'	120			
OKGE	'HORSESHOE LAKE 138KV'	380	0.00022		'SLEEPING BEAR 34KV'	120			
OKGE	'HORSESHOE LAKE 69KV'	16			'SLEEPING BEAR 34KV'	120			
OKGE	'MCCLAIN 138KV'	42			SLEEPING BEAR 34KV	120			
OKGE	'MUSKOGEE 161KV'	31	0.00003		SLEEPING BEAR 34KV	120			
OKGE	'MUSKOGEE 161KV'	166	0.00003		SLEEPING BEAR 34KV	120			
OKGE	'MUSKOGEE 345KV'	20	0.00004		'SLEEPING BEAR 34KV'	120			
OKGE	'MUSTANG 138KV'	365.5	0.00035		SLEEPING BEAR 34KV	120			
OKGE	'MUSTANG 69KV'	106	0.0004		SLEEPING BEAR 34KV	120			
OKGE	'ONE OAK 345KV'	319	0.00012		'SLEEPING BEAR 34KV'	120			
OKGE	'REDBUD 345KV'	900	0.00014		'SLEEPING BEAR 34KV'	120			
OKGE	'REDBUD 345KV'	421.65	0.00014		'SLEEPING BEAR 34KV'	120			
OKGE	'SEMINOLE 138KV'	309.9816	0.00018		'SLEEPING BEAR 34KV'	120			
OKGE	'SEMINOLE 345KV'	507.6	0.00018		'SLEEPING BEAR 34KV'	120			
OKGE	'SOONER 138KV'	24.99997	-0.00031		'SLEEPING BEAR 34KV'	120			
OKGE	'SOUTH 4TH ST 69KV'	42.7	-0.00162		'SLEEPING BEAR 34KV'	120			
OKGE	'TINKER 5G 138KV'	62	0.00024		'SLEEPING BEAR 34KV'	120			
NFEC	'MORLND 138KV'	148.9085	-0.02454	WFFC	'SLEEPING BEAR 138KV'	80	0.05338	-0.07792	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

Upgrade:	FPL SWITCH - MOORELAND 138KV CKT 1 OKGE AND	FPL SWITCH - MOC	RELAND	38KV CKT 1 W	FEC				
Limiting Facility:	FPL SWITCH - MOORELAND 138KV CKT 1								
Direction:	From->To								
Line Outage:	DEWEY - IODINE 138KV CKT 1								
Flowgate:	55785559991547875479611407G								
Date Redispatch Needed:	Starting 2007 4/1 - 6/1 Until EOC of Upgrade								
Season Flowgate Identified:	2007 Spring Peak								
		Aggregate Relief							
Reservation	Relief Amount	Amount							
1023236	0.6	14.6							
1032973	14.0	14.6							
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
OKGE	'AES 161KV'	40	0.00003	OKGE	'FPLWND2 34KV'	101.9988	0.97309	-0.97306	6 15
OKGE	'HORSESHOE LAKE 138KV'	91	0.00022		'FPLWND2 34KV'	101.9988	0.97309	-0.97287	
OKGE	'HORSESHOE LAKE 138KV'	380.5	0.00022	OKGE	'FPLWND2 34KV'	101.9988	0.97309	-0.97287	7 15
OKGE	'HORSESHOE LAKE 138KV'	380	0.00022	OKGE	'FPLWND2 34KV'	101.9988	0.97309	-0.97287	7 15
OKGE	'HORSESHOE LAKE 69KV'	16			'FPLWND2 34KV'	101.9988	0.97309	-0.97287	7 15
OKGE	'MCCLAIN 138KV'	42	0.00034	OKGE	'FPLWND2 34KV'	101.9988	0.97309	-0.97275	5 15
OKGE	'MUSKOGEE 161KV'	31	0.00003	OKGE	'FPLWND2 34KV'	101.9988	0.97309	-0.97306	6 15
OKGE	'MUSKOGEE 161KV'	166	0.00003		'FPLWND2 34KV'	101.9988	0.97309	-0.97306	6 15
OKGE	'MUSKOGEE 345KV'	20	0.00005	OKGE	'FPLWND2 34KV'	101.9988	0.97309	-0.97304	
OKGE	'MUSTANG 138KV'	365.5	0.00036	OKGE	'FPLWND2 34KV'	101.9988	0.97309	-0.97273	3 15
OKGE	'MUSTANG 69KV'	106	0.00041	OKGE	'FPLWND2 34KV'	101.9988	0.97309	-0.97268	3 15
OKGE	'ONE OAK 345KV'	319	0.00012	OKGE	'FPLWND2 34KV'	101.9988	0.97309	-0.97297	7 15
OKGE	'REDBUD 345KV'	900	0.00014	OKGE	'FPLWND2 34KV'	101.9988	0.97309	-0.97295	5 15
OKGE	'REDBUD 345KV'	421.65	0.00014	OKGE	'FPLWND2 34KV'	101.9988	0.97309	-0.97295	5 15
OKGE	'SEMINOLE 138KV'	405.6997	0.00019	OKGE	'FPLWND2 34KV'	101,9988		-0.9729	
OKGE	'SEMINOLE 345KV'	572.5286	0.00019		'FPLWND2 34KV'	101.9988	0.97309	-0.9729	
OKGE	'SOONER 138KV'	24.99997	-0.00031	OKGE	'FPLWND2 34KV'	101.9988	0.97309	-0.9734	4 15
OKGE	'SOUTH 4TH ST 69KV'	42.7	-0.00162		'FPLWND2 34KV'	101,9988		-0.97471	
OKGE	'TINKER 5G 138KV'	62	0.00025	OKGE	'FPLWND2 34KV'	101.9988	0.97309	-0.97284	
OKGE	'AES 161KV'	40	0.00003	OKGE	'SLEEPING BEAR 34KV'	120	0.81258	-0.81255	5 18
OKGE	'HORSESHOE LAKE 138KV'	380	0.00022	OKGE	'SLEEPING BEAR 34KV'	120	0.81258	-0.81236	6 18
OKGE	'HORSESHOE LAKE 138KV'	380.5	0.00022	OKGE	'SLEEPING BEAR 34KV'	120	0.81258	-0.81236	6 18
OKGE	'HORSESHOE LAKE 138KV'	91	0.00022	OKGE	SLEEPING BEAR 34KV	120	0.81258	-0.81236	
OKGE	'HORSESHOE LAKE 69KV'	16	0.00022	OKGE	'SLEEPING BEAR 34KV'	120	0.81258	-0.81236	6 18
OKGE	'MCCLAIN 138KV'	42			SLEEPING BEAR 34KV	120			
OKGE	'MUSKOGEE 161KV'	31	0.00003		SLEEPING BEAR 34KV	120	0.81258	-0.81255	
OKGE	'MUSKOGEE 161KV'	166	0.00003	OKGE	SLEEPING BEAR 34KV	120			
OKGE	'MUSKOGEE 345KV'	20	0.00005		SLEEPING BEAR 34KV	120		-0.81253	
OKGE	'MUSTANG 138KV'	365.5	0.00036		SLEEPING BEAR 34KV	120		-0.81222	
OKGE	'MUSTANG 69KV'	106	0.00041		SLEEPING BEAR 34KV	120			
OKGE	'ONE OAK 345KV'	319	0.00012		SLEEPING BEAR 34KV	120			
OKGE	'REDBUD 345KV'	421.65	0.00014		'SLEEPING BEAR 34KV'	120	0.81258	-0.81244	
OKGE	'REDBUD 345KV'	900	0.00014		SLEEPING BEAR 34KV	120			
OKGE	'SEMINOLE 138KV'	405.6997	0.00019		SLEEPING BEAR 34KV	120			
OKGE	'SEMINOLE 345KV'	572.5286	0.00019		SLEEPING BEAR 34KV	120			
OKGE	'SOONER 138KV'	24.99997	-0.00031		SLEEPING BEAR 34KV	120		-0.81289	
OKGE	'SOUTH 4TH ST 69KV'	42.7	-0.00162	OKGE	SLEEPING BEAR 34KV	120			
OKGE	'TINKER 5G 138KV'	62	0.00025		SLEEPING BEAR 34KV	120			
WFEC	'MORLND 138KV'	320			SLEEPING BEAR 138KV	80			
	imum Increment were determine from the Souce and Sink (					00	0.00000	0.0.730	- 107

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

Upgrade:	FPL SWITCH - MOORELAND 138KV CKT 1 OKGE AND	FPL SWITCH - MOO	RELAND 1	38KV CKT 1 W	FEC				
Limiting Facility:	FPL SWITCH - MOORELAND 138KV CKT 1								
Direction:	From->To								
Line Outage:	DEWEY - IODINE 138KV CKT 1								
Flowgate:	55785559991547875479614107AP								
Date Redispatch Needed:	Starting 2007 4/1 - 6/1 Until EOC of Upgrade								
Season Flowgate Identified:	2007 April Minimum								
Ŭ.		Aggregate Relief	1						
Reservation	Relief Amount	Amount							
102323	36 1.3	31.8	1						
103297	73 30.4	31.8	1						
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
OKGE	'AES 161KV'	160	0.00003	OKGE	'FPLWND2 34KV'	102	0.97309	-0.97306	33
OKGE	'HORSESHOE LAKE 138KV'	380	0.00022		'FPLWND2 34KV'	102		-0.97287	33
OKGE	'HORSESHOE LAKE 138KV'	380.5	0.00022	OKGE	'FPLWND2 34KV'	102	0.97309	-0.97287	
OKGE	'HORSESHOE LAKE 138KV'	91	0.00022		'FPLWND2 34KV'	102		-0.97287	
OKGE	'HORSESHOE LAKE 69KV'	16	0.00021		'FPLWND2 34KV'	102		-0.97288	
OKGE	'MCCLAIN 138KV'	520	0.00036		'FPLWND2 34KV'	102		-0.97273	
OKGE	'MUSKOGEE 161KV'	166	0.00004		'FPLWND2 34KV'	102		-0.97305	
OKGE	'MUSKOGEE 161KV'	31	0.00004		'FPLWND2 34KV'	102		-0.97305	
OKGE	'MUSKOGEE 345KV'	717.4685	0.00005		'FPLWND2 34KV'	102		-0.97304	
OKGE	'MUSTANG 138KV'	365.5	0.00036		'FPLWND2 34KV'	102		-0.97273	
OKGE	'MUSTANG 69KV'	106	0.00030		'FPLWND2 34KV'	102		-0.97269	
OKGE	ONE OAK 345KV	236	0.00012		'FPLWND2 34KV'	102		-0.97297	
OKGE	'REDBUD 345KV'	421.65	0.00012		'FPLWND2 34KV'	102		-0.97295	
OKGE	'REDBUD 345KV'	421.03	0.00014		'FPLWND2 34KV'	102		-0.97295	
OKGE	SEMINOLE 138KV	511.596	0.00014		'FPLWND2 34KV'	102	0.97309	-0.97293	
OKGE	SEMINOLE 136KV	996.6	0.00019		'FPLWND2 34KV'	102		-0.9729	
OKGE	SMITH COGEN 138KV	110	0.00034		'FPLWND2 34KV'	102		-0.97275	
OKGE	SOONER 138KV	24,99997	-0.00034		'FPLWND2 34KV'	102	0.97309	-0.97275	
OKGE	SOUTH 4TH ST 69KV	42.7	-0.00031		'FPLWND2 34KV'	102		-0.9734	33
OKGE	'TINKER 5G 138KV'	42.7	0.00025		'FPLWND2 34KV'	102		-0.97284	
OKGE	AES 161KV	160	0.00025		SLEEPING BEAR 34KV	102	0.81258	-0.97284	
OKGE		380	0.00003		SLEEPING BEAR 34KV	120		-0.81255	
OKGE	'HORSESHOE LAKE 138KV' 'HORSESHOE LAKE 138KV'	380	0.00022		SLEEPING BEAR 34KV	120		-0.81236	
OKGE			0.00022			120	0.81258	-0.81236	
	'HORSESHOE LAKE 138KV'	91			SLEEPING BEAR 34KV	120			
OKGE	'HORSESHOE LAKE 69KV'	16	0.00021		SLEEPING BEAR 34KV			-0.81237	
OKGE OKGE	MCCLAIN 138KV	520 31	0.00036		SLEEPING BEAR 34KV SLEEPING BEAR 34KV	120		-0.81222 -0.81254	
	'MUSKOGEE 161KV'	31				120	0.81258	-0.81254	
OKGE	'MUSKOGEE 161KV'		0.00004		SLEEPING BEAR 34KV				
OKGE	'MUSKOGEE 345KV'	717.4685	0.00005		SLEEPING BEAR 34KV	120	0.81258	-0.81253	
OKGE	'MUSTANG 138KV'	365.5	0.00036		SLEEPING BEAR 34KV	120		-0.81222	
OKGE	'MUSTANG 69KV'	106	0.0004		SLEEPING BEAR 34KV	120	0.81258	-0.81218	
OKGE	'ONE OAK 345KV'	236	0.00012		'SLEEPING BEAR 34KV'	120	0.81258	-0.81246	
OKGE	'REDBUD 345KV'	900	0.00014		SLEEPING BEAR 34KV	120		-0.81244	
OKGE	'REDBUD 345KV'	421.65	0.00014		SLEEPING BEAR 34KV	120		-0.81244	
OKGE	'SEMINOLE 138KV'	511.596	0.00019		'SLEEPING BEAR 34KV'	120	0.81258	-0.81239	
OKGE	'SEMINOLE 345KV'	996.6	0.00019		'SLEEPING BEAR 34KV'	120		-0.81239	
OKGE	'SMITH COGEN 138KV'	110	0.00034		'SLEEPING BEAR 34KV'	120		-0.81224	
OKGE	'SOONER 138KV'	24.99997	-0.00031		'SLEEPING BEAR 34KV'	120		-0.81289	
OKGE	'SOUTH 4TH ST 69KV'	42.7	-0.00162		'SLEEPING BEAR 34KV'	120	0.81258		
OKGE	'TINKER 5G 138KV'	62	0.00025	OKGE	'SLEEPING BEAR 34KV'	120	0.81258	-0.81233	39

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

Direction: Line Outage:	From->To IODINE - WOODWARD 138KV CKT 1							
Flowgate:	55785559991547965478511206WP							
Date Redispatch Needed:	12/1/06 - 4/1/07							
Season Flowgate Identified:	2006 Winter Peak							
ocacon nongato identifica.	2000 Winter Four	Aggregate Relief	1					
Reservation	Relief Amount	Amount						
102323	36 0.5	11.6						
103297	73 11.1	11.6						
		Maximum	Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF Area	Sink	Decrement(MW) GS	F	Factor	Amount (MW)
OKGE	'AES 161KV'	10		'FPLWND2 34KV'		0.97309	-0.97306	
OKGE	'CONTINENTAL EMPIRE 138KV'	63		'FPLWND2 34KV'		0.97309	-0.97354	
OKGE	'HORSESHOE LAKE 138KV'	91	0.00023 OKGE	'FPLWND2 34KV'		0.97309	-0.97286	
OKGE	'HORSESHOE LAKE 138KV'	380.5	0.00023 OKGE	'FPLWND2 34KV'		0.97309	-0.97286	
OKGE	'HORSESHOE LAKE 138KV'	380	0.00023 OKGE	'FPLWND2 34KV'		0.97309	-0.97286	
OKGE	'HORSESHOE LAKE 69KV'	16		'FPLWND2 34KV'		0.97309	-0.97287	
OKGE	'MCCLAIN 138KV'	42		'FPLWND2 34KV'		0.97309	-0.97273	
OKGE	'MUSKOGEE 161KV'	166		'FPLWND2 34KV'		0.97309	-0.97305	
OKGE	'MUSKOGEE 161KV'	31		'FPLWND2 34KV'		0.97309	-0.97305	
OKGE	'MUSKOGEE 345KV'	20	0.00005 OKGE	'FPLWND2 34KV'		0.97309	-0.97304	
OKGE	'MUSTANG 138KV'	365.5	0.00036 OKGE	'FPLWND2 34KV'		0.97309	-0.97273	
OKGE	'MUSTANG 69KV'	106	0.0004 OKGE	'FPLWND2 34KV'		0.97309	-0.97269	
OKGE	ONE OAK 345KV	336	0.00012 OKGE	'FPLWND2 34KV'		0.97309	-0.97297	
OKGE	'REDBUD 345KV'	421.65	0.00014 OKGE	'FPLWND2 34KV'		0.97309	-0.97295	
OKGE	'REDBUD 345KV'	900	0.00014 OKGE	'FPLWND2 34KV'		0.97309	-0.97295	
OKGE OKGE	'SEMINOLE 138KV' 'SEMINOLE 345KV'	395.9377 558.5136	0.00019 OKGE 0.00019 OKGE	'FPLWND2 34KV' 'FPLWND2 34KV'		0.97309	-0.9729	
OKGE	SOONER 138KV	24.99997	-0.00031 OKGE	'FPLWND2 34KV'		0.97309	-0.9729	
OKGE	SOUNER 138KV SOUTH 4TH ST 69KV	24.99997 42.7	-0.00031 OKGE	FPLWND2 34KV FPLWND2 34KV		0.97309	-0.9734	
OKGE	TINKER 5G 138KV	42.7	0.00025 OKGE	FPLWND2 34KV		0.97309	-0.97471	
OKGE	AES 161KV	10		SLEEPING BEAR 34KV		0.81258	-0.97264	
OKGE	CONTINENTAL EMPIRE 138KV	63	-0.00045 OKGE	SLEEPING BEAR 34KV		0.81258	-0.81303	
OKGE	'HORSESHOE LAKE 138KV'	91	0.00023 OKGE	SLEEPING BEAR 34KV		0.81258	-0.81235	
OKGE	'HORSESHOE LAKE 138KV'	380.5	0.00023 OKGE	SLEEPING BEAR 34KV		0.81258	-0.81235	
OKGE	'HORSESHOE LAKE 138KV'	380		SLEEPING BEAR 34KV		0.81258	-0.81235	
OKGE	'HORSESHOE LAKE 69KV'	16		SLEEPING BEAR 34KV		0.81258	-0.81236	
OKGE	'MCCLAIN 138KV'	42		'SLEEPING BEAR 34KV'		0.81258	-0.81222	
OKGE	'MUSKOGEE 161KV'	31		SLEEPING BEAR 34KV		0.81258	-0.81254	
OKGE	'MUSKOGEE 161KV'	166	0.00004 OKGE	SLEEPING BEAR 34KV		0.81258	-0.81254	
OKGE	'MUSKOGEE 345KV'	20		SLEEPING BEAR 34KV		0.81258	-0.81253	
OKGE	'MUSTANG 138KV'	365.5		SLEEPING BEAR 34KV	120 0	0.81258	-0.81222	
OKGE	'MUSTANG 69KV'	106	0.0004 OKGE	SLEEPING BEAR 34KV	120 0	0.81258	-0.81218	1
OKGE	'ONE OAK 345KV'	336	0.00012 OKGE	SLEEPING BEAR 34KV	120 0	0.81258	-0.81246	
OKGE	'REDBUD 345KV'	900	0.00014 OKGE	'SLEEPING BEAR 34KV'	120 0	0.81258	-0.81244	1
OKGE	'REDBUD 345KV'	421.65	0.00014 OKGE	'SLEEPING BEAR 34KV'		0.81258	-0.81244	
OKGE	'SEMINOLE 138KV'	395.9377	0.00019 OKGE	'SLEEPING BEAR 34KV'		0.81258	-0.81239	
OKGE	'SEMINOLE 345KV'	558.5136		'SLEEPING BEAR 34KV'		0.81258	-0.81239	
OKGE	'SOONER 138KV'	24.99997	-0.00031 OKGE	'SLEEPING BEAR 34KV'		0.81258	-0.81289	
OKGE	'SOUTH 4TH ST 69KV'	42.7	-0.00162 OKGE	'SLEEPING BEAR 34KV'		).81258	-0.8142	
OKGE	'TINKER 5G 138KV'	62		'SLEEPING BEAR 34KV'		0.81258	-0.81233	
WFEC	'MORLND 138KV'	166,1695	-0.02454 WFEC	'SLEEPING BEAR 138KV'	80 0	0.05339	-0.07793	149

Redispatch Anount - Relief An	iount / Factor				
Upgrade:	FPL SWITCH - MOORELAND 138KV CKT 1 OKGE AND	FPL SWITCH - MOO	DRELAND 1	38KV CKT 1 W	FEC
Limiting Facility:	FPL SWITCH - MOORELAND 138KV CKT 1				
Direction:	From->To				
Line Outage:	IODINE - WOODWARD 138KV CKT 1				
Flowgate:	55785559991547965478511207FA				
Date Redispatch Needed:	Starting 2007 10/1 - 12/1 Until EOC of Upgrade				
Season Flowgate Identified:	2007 Fall Peak				
		Aggregate Relief			
Reservation	Relief Amount	Amount			
1023236	0.6	13.5	1		
1032973	12.9	13.5	1		
		Maximum		Sink Control	
Source Control Area	Source	Increment(MW)	GSF	Area	Sink
OKGE	'CONTINENTAL EMPIRE 138KV'	64	-0.00045	OKGE	'FPLV
OKGE	'HORSESHOE LAKE 138KV'	91	0.00022	OKGE	'FPLV
OKGE	'HORSESHOE LAKE 138KV'	380.5	0.00022	OKGE	'FPLV
OKGE	'HORSESHOE LAKE 138KV'	380	0.00022	OKGE	'FPLV
OKGE	HORSESHOELAKE 69KV	16	0.00021	OKGE	'EPI V

		Maximum	Sink Control		Maximum			Redispatch
ource Control Area	Source	Increment(MW)	GSF Area	Sink		GSF	Factor	Amount (MW)
KGE	'CONTINENTAL EMPIRE 138KV'	64		'FPLWND2 34KV'	102	0.97309		
KGE	'HORSESHOE LAKE 138KV'	91	0.00022 OKGE	'FPLWND2 34KV'	102	0.97309	-0.97287	
KGE	'HORSESHOE LAKE 138KV'	380.5	0.00022 OKGE	'FPLWND2 34KV'	102	0.97309	-0.97287	
KGE	'HORSESHOE LAKE 138KV'	380	0.00022 OKGE	'FPLWND2 34KV'	102	0.97309	-0.97287	
KGE	'HORSESHOE LAKE 69KV'	16	0.00021 OKGE	'FPLWND2 34KV'	102	0.97309	-0.97288	
KGE	'MCCLAIN 138KV'	42	0.00034 OKGE	'FPLWND2 34KV'	102	0.97309	-0.97275	
KGE	'MUSKOGEE 161KV'	31	0.00003 OKGE	'FPLWND2 34KV'	102	0.97309	-0.97306	
KGE	'MUSKOGEE 161KV'	166	0.00003 OKGE	'FPLWND2 34KV'	102	0.97309	-0.97306	
KGE	'MUSKOGEE 345KV'	20	0.00004 OKGE	'FPLWND2 34KV'	102	0.97309	-0.97305	
KGE	'MUSTANG 138KV'	365.5	0.00035 OKGE	'FPLWND2 34KV'	102	0.97309	-0.97274	
KGE	'MUSTANG 69KV'	106	0.0004 OKGE	'FPLWND2 34KV'	102	0.97309	-0.97269	
KGE	'ONE OAK 345KV'	323	0.00013 OKGE	'FPLWND2 34KV'	102	0.97309	-0.97296	i
DKGE	'REDBUD 345KV'	421.65	0.00014 OKGE	'FPLWND2 34KV'	102	0.97309	-0.97295	
KGE	'REDBUD 345KV'	900	0.00014 OKGE	'FPLWND2 34KV'	102	0.97309	-0.97295	
KGE	'SEMINOLE 138KV'	35.77591	0.00018 OKGE	'FPLWND2 34KV'	102	0.97309	-0.97291	
OKGE	'SEMINOLE 345KV'	507.6	0.00018 OKGE	'FPLWND2 34KV'	102	0.97309	-0.97291	
KGE	'SMITH COGEN 138KV'	110	0.00034 OKGE	'FPLWND2 34KV'	102	0.97309	-0.97275	i
KGE	'SOONER 138KV'	24.99997	-0.00031 OKGE	'FPLWND2 34KV'	102	0.97309	-0.9734	
KGE	'SOUTH 4TH ST 69KV'	42.7	-0.00162 OKGE	'FPLWND2 34KV'	102	0.97309	-0.97471	
KGE	'TINKER 5G 138KV'	62	0.00024 OKGE	'FPLWND2 34KV'	102	0.97309	-0.97285	
KGE	CONTINENTAL EMPIRE 138KV	64	-0.00045 OKGE	SLEEPING BEAR 34KV	120	0.81258	-0.81303	
KGE	'HORSESHOE LAKE 138KV'	380	0.00022 OKGE	SLEEPING BEAR 34KV	120	0.81258	-0.81236	
KGE	'HORSESHOE LAKE 138KV'	380.5	0.00022 OKGE	SLEEPING BEAR 34KV	120	0.81258	-0.81236	
KGE	'HORSESHOE LAKE 138KV'	91	0.00022 OKGE	SLEEPING BEAR 34KV	120	0.81258	-0.81236	
DKGE	'HORSESHOE LAKE 69KV'	16	0.00021 OKGE	SLEEPING BEAR 34KV	120	0.81258	-0.81237	
KGE	'MUSKOGEE 161KV'	166	0.00003 OKGE	SLEEPING BEAR 34KV	120	0.81258	-0.81255	
KGE	'MUSKOGEE 161KV'	31	0.00003 OKGE	SLEEPING BEAR 34KV	120	0.81258	-0.81255	
KGE	'MUSKOGEE 345KV'	20	0.00004 OKGE	SLEEPING BEAR 34KV	120	0.81258	-0.81254	
KGE	'MUSTANG 138KV'	365.5	0.00035 OKGE	SLEEPING BEAR 34KV	120	0.81258	-0.81223	
KGE	'MUSTANG 69KV'	106	0.0004 OKGE	SLEEPING BEAR 34KV	120	0.81258	-0.81218	
KGE	'ONE OAK 345KV'	323	0.00013 OKGE	SLEEPING BEAR 34KV	120	0.81258	-0.81245	
KGE	'REDBUD 345KV'	900	0.00014 OKGE	SLEEPING BEAR 34KV	120	0.81258	-0.81244	
KGE	'REDBUD 345KV'	421.65	0.00014 OKGE	SLEEPING BEAR 34KV	120	0.81258	-0.81244	
KGE	'SEMINOLE 138KV'	35,77591	0.00018 OKGE	SLEEPING BEAR 34KV	120	0.81258	-0.8124	
KGE	SEMINOLE 345KV	507.6	0.00018 OKGE	SLEEPING BEAR 34KV	120	0.81258	-0.8124	
KGE	'SMITH COGEN 138KV'	110	0.00034 OKGE	SLEEPING BEAR 34KV	120	0.81258	-0.81224	
KGE	SOONER 138KV	24,99997	-0.00031 OKGE	SLEEPING BEAR 34KV	120	0.81258	-0.81289	
KGE	SOUTH 4TH ST 69KV	24.99997 42.7	-0.00162 OKGE	SLEEPING BEAR 34KV	120	0.81258	-0.81269	
KGE	'TINKER 5G 138KV'	42.7	0.00024 OKGE	SLEEPING BEAR 34KV	120	0.81258	-0.81234	
VFEC	MORLND 138KV	320	-0.02454 WFEC	SLEEPING BEAR 34KV	80	0.05338	-0.01234	
	imum Increment were determine from the Souce and Sink (				80	0.00038	-0.07792	1

Upgrade: Limiting Facility:	FPL SWITCH - MOORELAND 138KV CKT 1 OKGE AND FPL SWITCH - MOORELAND 138KV CKT 1	FPL SWITCH - MOO	DRELAND 1	38KV CKT 1 W	FEC				
Direction:	From->To								
Line Outage:	IODINE - WOODWARD 138KV CKT 1								
Flowgate:	55785559991547965478511207SH								
Date Redispatch Needed:	6/1 - 10/1 Until EOC of Upgrade								
Season Flowgate Identified:	2007 Summer Shoulder								
		Aggregate Relief	1						
Reservation	Relief Amount	Amount							
1023236									
1032973	3 3.9	4.1							
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
OKGE	'HORSESHOE LAKE 138KV'	380	0.00022	OKGE	'FPLWND2 34KV'	102	0.97309	-0.97287	
OKGE	'HORSESHOE LAKE 138KV'	380.5	0.00022		'FPLWND2 34KV'	102	0.97309		
OKGE	'MCCLAIN 138KV'	42	0.00034	OKGE	'FPLWND2 34KV'	102	0.97309	-0.97275	i .
OKGE	'MUSKOGEE 161KV'	31	0.00003	OKGE	'FPLWND2 34KV'	102	0.97309	-0.97306	;
OKGE	'MUSKOGEE 161KV'	166	0.00003	OKGE	'FPLWND2 34KV'	102	0.97309	-0.97306	;
OKGE	'MUSKOGEE 345KV'	20	0.00004		'FPLWND2 34KV'	102	0.97309		
OKGE	'MUSTANG 138KV'	365.5	0.00035		'FPLWND2 34KV'	102	0.97309		
OKGE	'MUSTANG 69KV'	57.60058	0.0004		'FPLWND2 34KV'	102	0.97309		
OKGE	ONE OAK 345KV	274	0.00013		'FPLWND2 34KV'	102	0.97309		
OKGE	'REDBUD 345KV'	900	0.00014		'FPLWND2 34KV'	102	0.97309		
OKGE	'REDBUD 345KV'	421.65	0.00014		'FPLWND2 34KV'	102	0.97309		
OKGE	SEMINOLE 138KV	21.98755	0.00014		'FPLWND2 34KV'	102	0.97309		
OKGE	SOONER 138KV	24.99997	-0.00031		'FPLWND2 34KV'	102	0.97309		
OKGE	SOUTH 4TH ST 69KV	42.7	-0.00162		'FPLWND2 34KV'	102	0.97309		
OKGE	TINKER 5G 138KV	42.7	0.00024		'FPLWND2 34KV'	102	0.97309		
OKGE	HORSESHOE LAKE 138KV	380	0.00024	OKGE	SLEEPING BEAR 34KV	102	0.81258		
OKGE	'HORSESHOE LAKE 138KV'	380.5	0.00022		SLEEPING BEAR 34KV	120	0.81258		
OKGE	MCCLAIN 138KV	42	0.00022		SLEEPING BEAR 34KV	120	0.81258		
OKGE	'MUSKOGEE 161KV'	42	0.000034	OKGE	SLEEPING BEAR 34KV	120	0.81258		
OKGE	'MUSKOGEE 161KV'	166	0.00003		SLEEPING BEAR 34KV	120	0.81258		
OKGE	'MUSKOGEE 345KV'	20	0.00003		SLEEPING BEAR 34KV	120	0.81258		
OKGE	MUSTANG 138KV	365.5	0.00004		SLEEPING BEAR 34KV	120	0.81258		
OKGE	MUSTANG 156KV	57.60058	0.00035		SLEEPING BEAR 34KV	120	0.81258		
OKGE	ONE OAK 345KV	274	0.0004		SLEEPING BEAR 34KV	120	0.81258		
OKGE	REDBUD 345KV	900	0.00013		SLEEPING BEAR 34KV		0.81258		
OKGE						120	0.81258		
OKGE	'REDBUD 345KV'	421.65 21.98755			'SLEEPING BEAR 34KV' 'SLEEPING BEAR 34KV'	120	0.81258		
	SEMINOLE 138KV		0.00018		SLEEPING BEAR 34KV		0.81258		
OKGE	SOONER 138KV	24.99997				120			
OKGE	'SOUTH 4TH ST 69KV'	42.7	-0.00162		SLEEPING BEAR 34KV	120	0.81258		2
OKGE	'TINKER 5G 138KV'	62	0.00024		'SLEEPING BEAR 34KV'	120	0.81258		
						80	0.05338	-0.07792	5
OKGE WFEC Maximum Decrement and Max Factor = Source GSF - Sink G Redispatch Amount = Relief A		9.3 173.8576 Operating Points in t		WFEC	FPLWND2 34KV' [SLEEPING BEAR 138KV' ing facility was identified.	102 80	0.97309 0.05338		

Upgrade:	FPL SWITCH - MOORELAND 138KV CKT 1 OKGE AND	FPL SWITCH - MOO	RELAND 1	38KV CKT 1 W	FEC				
Limiting Facility:	FPL SWITCH - MOORELAND 138KV CKT 1								
Direction:	From->To								
Line Outage:	IODINE - WOODWARD 138KV CKT 1								
Flowgate:	55785559991547965478511207WP								
Date Redispatch Needed:	12/1/07 - 4/1/08								
Season Flowgate Identified:	2007 Winter Peak								
		Aggregate Relief	1						
Reservation	Relief Amount	Amount							
1023236	0.5	10.9	1						
1032973	3 10.4	10.9	1						
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
OKGE	'AES 161KV'	78.99999	0.00003	OKGE	'FPLWND2 34KV'	101.9968	0.97308	-0.97305	11
OKGE	'HORSESHOE LAKE 138KV'	91	0.00022		'FPLWND2 34KV'	101.9968	0.97308	-0.97286	11
OKGE	'HORSESHOE LAKE 138KV'	380.5	0.00022	OKGE	'FPLWND2 34KV'	101.9968	0.97308	-0.97286	11
OKGE	'HORSESHOE LAKE 138KV'	380	0.00022		'FPLWND2 34KV'	101.9968			
OKGE	'HORSESHOE LAKE 69KV'	16	0.00021		'FPLWND2 34KV'	101.9968			
OKGE	'MCCLAIN 138KV'	42	0.00034	OKGE	'FPLWND2 34KV'	101.9968	0.97308	-0.97274	11
OKGE	'MUSKOGEE 161KV'	31	0.00003	OKGE	'FPLWND2 34KV'	101.9968	0.97308	-0.97305	11
OKGE	'MUSKOGEE 161KV'	166	0.00003	OKGE	'FPLWND2 34KV'	101.9968	0.97308	-0.97305	11
OKGE	'MUSKOGEE 345KV'	20	0.00004	OKGE	'FPLWND2 34KV'	101.9968	0.97308	-0.97304	. 11
OKGE	'MUSTANG 138KV'	365.5	0.00035	OKGE	'FPLWND2 34KV'	101.9968	0.97308	-0.97273	11
OKGE	'MUSTANG 69KV'	106	0.0004	OKGE	'FPLWND2 34KV'	101.9968	0.97308	-0.97268	11
OKGE	'ONE OAK 345KV'	319	0.00012	OKGE	'FPLWND2 34KV'	101.9968	0.97308	-0.97296	11
OKGE	'REDBUD 345KV'	421.65	0.00014	OKGE	'FPLWND2 34KV'	101.9968	0.97308	-0.97294	11
OKGE	'REDBUD 345KV'	900	0.00014	OKGE	'FPLWND2 34KV'	101.9968	0.97308	-0.97294	11
OKGE	SEMINOLE 138KV	309.9816	0.00018	OKGE	'FPLWND2 34KV'	101.9968	0.97308	-0.9729	11
OKGE	'SEMINOLE 345KV'	507.6	0.00018	OKGE	'FPLWND2 34KV'	101.9968	0.97308	-0.9729	11
OKGE	'SOONER 138KV'	24.99997	-0.00031	OKGE	'FPLWND2 34KV'	101.9968	0.97308	-0.97339	11
OKGE	'SOUTH 4TH ST 69KV'	42.7	-0.00162	OKGE	'FPLWND2 34KV'	101.9968	0.97308	-0.9747	11
OKGE	'TINKER 5G 138KV'	62	0.00024		'FPLWND2 34KV'	101.9968	0.97308	-0.97284	
OKGE	'AES 161KV'	78.99999	0.00003		'SLEEPING BEAR 34KV'	120			
OKGE	'HORSESHOE LAKE 138KV'	91	0.00022		'SLEEPING BEAR 34KV'	120			
OKGE	'HORSESHOE LAKE 138KV'	380.5	0.00022		'SLEEPING BEAR 34KV'	120			
OKGE	'HORSESHOE LAKE 138KV'	380	0.00022		'SLEEPING BEAR 34KV'	120			
OKGE	'HORSESHOE LAKE 69KV'	16	0.00021		'SLEEPING BEAR 34KV'	120			
OKGE	'MCCLAIN 138KV'	42	0.00034		'SLEEPING BEAR 34KV'	120			
OKGE	'MUSKOGEE 161KV'	31	0.00003		'SLEEPING BEAR 34KV'	120			
OKGE	'MUSKOGEE 161KV'	166	0.00003		'SLEEPING BEAR 34KV'	120			
OKGE	'MUSKOGEE 345KV'	20	0.00004		'SLEEPING BEAR 34KV'	120			
OKGE	'MUSTANG 138KV'	365.5	0.00035		'SLEEPING BEAR 34KV'	120			
OKGE	'MUSTANG 69KV'	106	0.0004		'SLEEPING BEAR 34KV'	120			
OKGE	'ONE OAK 345KV'	319	0.00012		'SLEEPING BEAR 34KV'	120			
OKGE	'REDBUD 345KV'	421.65	0.00014		'SLEEPING BEAR 34KV'	120			
OKGE	'REDBUD 345KV'	900	0.00014		'SLEEPING BEAR 34KV'	120			
OKGE	'SEMINOLE 138KV'	309.9816	0.00018		'SLEEPING BEAR 34KV'	120			
OKGE	'SEMINOLE 345KV'	507.6	0.00018		'SLEEPING BEAR 34KV'	120			
OKGE	'SOONER 138KV'	24.99997	-0.00031		'SLEEPING BEAR 34KV'	120			
OKGE	'SOUTH 4TH ST 69KV'	42.7	-0.00162		'SLEEPING BEAR 34KV'	120			
OKGE	'TINKER 5G 138KV'	62	0.00024		'SLEEPING BEAR 34KV'	120			
WFEC	MORLND 138KV imum Increment were determine from the Souce and Sink (	148.9085			'SLEEPING BEAR 138KV'	80	0.05338	-0.07792	140

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

Upgrade:	FPL SWITCH - MOORELAND 138KV CKT 1 OKGE AND	FPL SWITCH - MOO	DRELAND 138KV CKT 1 V	NFEC				
Limiting Facility:	FPL SWITCH - MOORELAND 138KV CKT 1							
Direction:	From->To							
Line Outage:	IODINE - WOODWARD 138KV CKT 1							
Flowgate:	55785559991547965478511407G							
Date Redispatch Needed:	Starting 2007 4/1 - 6/1 Until EOC of Upgrade							
Season Flowgate Identified:	2007 Spring Peak							
		Aggregate Relief						
Reservation	Relief Amount	Amount						
1023236								
1032973	16.9				1 1		,	
		Maximum	Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF Area	Sink	Decrement(MW) GS			Amount (MW)
OKGE	'AES 161KV'	40		'FPLWND2 34KV'		0.97309	-0.97306	1
OKGE	'HORSESHOE LAKE 138KV'	380	0.00022 OKGE	'FPLWND2 34KV'		0.97309	-0.97287	18
OKGE	'HORSESHOE LAKE 138KV'	380.5	0.00022 OKGE	'FPLWND2 34KV'		0.97309	-0.97287	1
OKGE	'HORSESHOE LAKE 138KV'	91		'FPLWND2 34KV'		0.97309	-0.97287	1
OKGE	'HORSESHOE LAKE 69KV'	16		'FPLWND2 34KV'		0.97309	-0.97287	18
OKGE	'MCCLAIN 138KV'	42		'FPLWND2 34KV'		0.97309	-0.97275	18
OKGE	'MUSKOGEE 161KV'	166	0.00003 OKGE	'FPLWND2 34KV'		0.97309	-0.97306	18
OKGE	'MUSKOGEE 161KV'	31		'FPLWND2 34KV'		0.97309	-0.97306	18
OKGE	'MUSKOGEE 345KV'	20		'FPLWND2 34KV'		0.97309	-0.97304	18
OKGE	'MUSTANG 138KV'	365.5		'FPLWND2 34KV'		0.97309	-0.97273	18
OKGE	'MUSTANG 69KV'	106	0.00041 OKGE	'FPLWND2 34KV'		0.97309	-0.97268	18
OKGE	'ONE OAK 345KV'	319		'FPLWND2 34KV'		0.97309	-0.97297	18
OKGE	'REDBUD 345KV'	900	0.00014 OKGE	'FPLWND2 34KV'		0.97309	-0.97295	18
OKGE	'REDBUD 345KV'	421.65	0.00014 OKGE	'FPLWND2 34KV'		0.97309	-0.97295	18
OKGE	'SEMINOLE 138KV'	405.6997	0.00019 OKGE	'FPLWND2 34KV'		0.97309	-0.9729	18
OKGE	'SEMINOLE 345KV'	572.5286	0.00019 OKGE	'FPLWND2 34KV'		0.97309	-0.9729	18
OKGE	'SOONER 138KV'	24.99997	-0.00031 OKGE	'FPLWND2 34KV'		0.97309	-0.9734	18
OKGE	'SOUTH 4TH ST 69KV'	42.7		'FPLWND2 34KV'		0.97309	-0.97471	18
OKGE	'TINKER 5G 138KV'	62	0.00025 OKGE	'FPLWND2 34KV'		0.97309	-0.97284	18
OKGE	'AES 161KV'	40		'SLEEPING BEAR 34KV'		0.81258	-0.81255	2
OKGE	'HORSESHOE LAKE 138KV'	380	0.00022 OKGE	'SLEEPING BEAR 34KV'		0.81258	-0.81236	2
OKGE	'HORSESHOE LAKE 138KV'	380.5	0.00022 OKGE	'SLEEPING BEAR 34KV'		0.81258	-0.81236	2
OKGE	'HORSESHOE LAKE 138KV'	91		'SLEEPING BEAR 34KV'		0.81258	-0.81236	2
OKGE	'HORSESHOE LAKE 69KV'	16		'SLEEPING BEAR 34KV'		0.81258	-0.81236	2
OKGE	'MCCLAIN 138KV'	42		'SLEEPING BEAR 34KV'		0.81258	-0.81224	23
OKGE	'MUSKOGEE 161KV'	166	0.00003 OKGE	'SLEEPING BEAR 34KV'		0.81258	-0.81255	23
OKGE	'MUSKOGEE 161KV'	31		'SLEEPING BEAR 34KV'		0.81258	-0.81255	22
OKGE	'MUSKOGEE 345KV'	20		'SLEEPING BEAR 34KV'		0.81258	-0.81253	22
OKGE	'MUSTANG 138KV'	365.5	0.00036 OKGE	'SLEEPING BEAR 34KV'		0.81258	-0.81222	23
OKGE	'MUSTANG 69KV'	106		'SLEEPING BEAR 34KV'		0.81258	-0.81217	22
OKGE	'ONE OAK 345KV'	319	0.00012 OKGE	'SLEEPING BEAR 34KV'		0.81258	-0.81246	22
OKGE	'REDBUD 345KV'	900	0.00014 OKGE	'SLEEPING BEAR 34KV'		0.81258	-0.81244	23
OKGE	'REDBUD 345KV'	421.65		'SLEEPING BEAR 34KV'		0.81258	-0.81244	23
OKGE	'SEMINOLE 138KV'	405.6997	0.00019 OKGE	'SLEEPING BEAR 34KV'		0.81258	-0.81239	2
OKGE	'SEMINOLE 345KV'	572.5286	0.00019 OKGE	'SLEEPING BEAR 34KV'		0.81258	-0.81239	2
OKGE	'SOONER 138KV'	24.99997	-0.00031 OKGE	'SLEEPING BEAR 34KV'		0.81258	-0.81289	2
OKGE	'SOUTH 4TH ST 69KV'	42.7	-0.00162 OKGE	'SLEEPING BEAR 34KV'		0.81258	-0.8142	22
OKGE	'TINKER 5G 138KV'	62		'SLEEPING BEAR 34KV'		0.81258	-0.81233	2
WFEC	'MORLND 138KV'	320	-0.02454 WFEC	'SLEEPING BEAR 138KV'	80 (	0.05339	-0.07793	220

 IWFEC
 IMORLND
 138KV
 320
 -0.02454
 WFEC
 ISLEEPING BEAR
 138K

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

Upgrade:	FPL SWITCH - MOORELAND 138KV CKT 1 OKGE AND	FPL SWITCH - MOC	RELAND 1	38KV CKT 1 W	/FEC				
Limiting Facility:	FPL SWITCH - MOORELAND 138KV CKT 1								
Direction:	From->To								
_ine Outage:	IODINE - WOODWARD 138KV CKT 1								
Flowgate:	55785559991547965478514107AP								
Date Redispatch Needed:	Starting 2007 4/1 - 6/1 Until EOC of Upgrade								
Season Flowgate Identified:	2007 April Minimum								
		Aggregate Relief							
Reservation	Relief Amount	Amount							
1023236		33.6							
1032973	3 32.2	33.6							
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
OKGE	'SOUTH 4TH ST 69KV'	42.7	-0.00162	OKGE	'FPLWND2 34KV'	102	0.97309	-0.97471	34
OKGE	'AES 161KV'	160	0.00003	OKGE	'FPLWND2 34KV'	102	0.97309	-0.97306	35
OKGE	'HORSESHOE LAKE 138KV'	380.5	0.00022	OKGE	'FPLWND2 34KV'	102	0.97309	-0.97287	35
OKGE	'HORSESHOE LAKE 138KV'	380	0.00022	OKGE	'FPLWND2 34KV'	102	0.97309	-0.97287	
OKGE	'HORSESHOE LAKE 138KV'	91	0.00022	OKGE	'FPLWND2 34KV'	102	0.97309	-0.97287	35
OKGE	'HORSESHOE LAKE 69KV'	16	0.00021	OKGE	'FPLWND2 34KV'	102	0.97309	-0.97288	
OKGE	'MCCLAIN 138KV'	520	0.00036		'FPLWND2 34KV'	102	0.97309	-0.97273	
OKGE	'MUSKOGEE 161KV'	166	0.00004		'FPLWND2 34KV'	102	0.97309	-0.97305	
OKGE	'MUSKOGEE 161KV'	31	0.00004		'FPLWND2 34KV'	102			
OKGE	'MUSKOGEE 345KV'	717,4685	0.00005		'FPLWND2 34KV'	102	0.97309	-0.97304	
OKGE	'MUSTANG 138KV'	365.5	0.00036		'FPLWND2 34KV'	102			
OKGE	'MUSTANG 69KV'	106	0.0004		'FPLWND2 34KV'	102			
OKGE	ONE OAK 345KV	236	0.00012		'FPLWND2 34KV'	102			
OKGE	'REDBUD 345KV'	900	0.00014		'FPLWND2 34KV'	102			
OKGE	'REDBUD 345KV'	421.65	0.00014		'FPLWND2 34KV'	102			
OKGE	'SEMINOLE 138KV'	511.596	0.00019		'FPLWND2 34KV'	102			35
OKGE	SEMINOLE 345KV	996.6	0.00019		'FPLWND2 34KV'	102			
OKGE	SMITH COGEN 138KV	110	0.00034		'FPLWND2 34KV'	102			
OKGE	SOONER 138KV	24.99997	-0.00031		'FPLWND2 34KV'	102			
OKGE	TINKER 5G 138KV	62	0.00025		'FPLWND2 34KV'	102			
OKGE	AES 161KV	160	0.000023		SLEEPING BEAR 34KV	102			
OKGE	'HORSESHOE LAKE 138KV'	91	0.00022		SLEEPING BEAR 34KV	120			
OKGE	HORSESHOE LAKE 138KV	380.5	0.00022		SLEEPING BEAR 34KV	120			
OKGE	'HORSESHOE LAKE 138KV'	380	0.00022		SLEEPING BEAR 34KV	120			
OKGE	HORSESHOE LAKE 69KV	16	0.00022		SLEEPING BEAR 34KV	120			
OKGE	MCCLAIN 138KV	520	0.00021		SLEEPING BEAR 34KV	120			
OKGE	'MUSKOGEE 161KV'	31	0.00004		SLEEPING BEAR 34KV	120			
OKGE	MUSKOGEE 161KV	166	0.00004		SLEEPING BEAR 34KV	120			
OKGE	MUSKOGEE 345KV	717.4685	0.00004		SLEEPING BEAR 34KV	120			
OKGE	'MUSTANG 138KV'	365.5	0.00005		SLEEPING BEAR 34KV	120			
OKGE	MUSTANG 156KV	305.5	0.00036		SLEEPING BEAR 34KV	120			
OKGE	ONE OAK 345KV	236	0.0004		SLEEPING BEAR 34KV SLEEPING BEAR 34KV	120			
						120			
OKGE	'REDBUD 345KV'	421.65	0.00014		SLEEPING BEAR 34KV				
OKGE	'REDBUD 345KV'	900	0.00014		SLEEPING BEAR 34KV	120			
OKGE	SEMINOLE 138KV	511.596	0.00019		SLEEPING BEAR 34KV	120			
OKGE	SEMINOLE 345KV	996.6	0.00019		SLEEPING BEAR 34KV	120			
OKGE	'SMITH COGEN 138KV'	110	0.00034		SLEEPING BEAR 34KV	120			
OKGE	'SOONER 138KV'	24.99997	-0.00031		SLEEPING BEAR 34KV	120			
OKGE	'SOUTH 4TH ST 69KV'	42.7	-0.00162		'SLEEPING BEAR 34KV'	120			
OKGE	'TINKER 5G 138KV'	62	0.00025	OKGE	SLEEPING BEAR 34KV	120	0.81258	-0.81233	41

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

OKGE         YDNE OAK 345KV         336         0.00153         OKGE         FPLUMND2 34KV         102         0.88366         0.08476         22           OKGE         TEDBLD 345KV         900         0.0016         OKGE         FPLWND2 34KV         102         0.88366         0.08476         22           OKGE         SEMINOLE 135KV         507.5516         0.0012         OKGE         FPLWND2 34KV         102         0.88366         0.08476         22           OKGE         SEMINOLE 135KV         906.6         0.00180         OKGE         FPLWND2 34KV         102         0.88366         0.88476         22           OKGE         SOUHER 138KV         110         0.0038         OKGE         FPLWND2 34KV         102         0.88636         0.88476         22           OKGE         SOUHA 14TH ST 66KV         24.99997         0.0024         OKGE         FPLWND2 34KV         102         0.88636         0.88636         0.88636         0.88636         0.88636         0.88636         0.288636         0.288636         0.288636         0.288636         0.288636         0.288636         0.288636         0.288636         0.288636         0.288636         0.288636         0.288636         0.288636         0.288636         0.288636	Upgrade:	FPL SWITCH - MOORELAND 138KV CKT 1 OKGE AND	FPL SWITCH - MOO	ORELAND 1	38KV CKT 1 W	FEC				
Line Outge F 1989'S 198										
Final Strephic Market Strephic Strephic Market Strephing Strephing Straphic Market Strephic Market Strephic Market Stre										
Date         Busing 2007 4/1 - 6/1 UNIE ICC of Upgand           Basen Pougable Meman         Anoman										
Season Decogate location         Ord Pail Minimum         Aggregate Relation           1022303         102303         104         1023033         103303         103303         103303         103303         103303         103303         103303         103303         103303         103303         103303         103303         103303         103303         103303         103303         103303         103303         1033033333         1033033         1033033										
Answer         Answer         Answer         Answer         Answer         Answer         Answer         Answer           102220         1022000         102200         102200         102200         102200         102200         102200         102200         102200         102200         102200         102200         102200         102200         102200         102200         102200         102200         102200         1022000         1022000000         102200										
Reservation         Refer Amount         Amount           1032273         14.8         16.8           Norme	Season Flowgate Identified:	2007 April Minimum								
102228         1143         189           Surze Cottol Area         Surze Marinum         Serie         Maximum         Serie         Serie <td></td>										
193270         11.6         18.9           Sourd Onthol Alea         Sourd Control Alea         Sink Control         Sink Control         Maximum         DSF         Factor         Redisputch           Sourd Control Alea         Sourd Control Alea         Sink Control         Sink Control         Maximum         DSF         Factor         Redisputch           Sourd Control Alea         Sourd Control Alea         Sourd Control Alea         Sourd Control Alea         Maximum         DSF         Redisputch         20.884         22           CRGE         HORESENGE LAKE 1384V         300         D00280 (KGE         FPLWND2 34V/         102         D8858         0.884         22           CRGE         HORESENGE LAKE 138V         300         D00220 (KGE         FPLWND2 34V/         102         D8858         0.884         22           CRGE         MUSKOGEE 11V/         160         D00420 (KGE         FPLWND2 34V/         102         D8858         0.8858         22           CRGE         MUSKOGEE 11V/         74.438         D00350 (KGE         FPLWND2 34V/         102         D8858         0.8858         22           CRGE         MUSKOGEE 14V/         100         D0101 (KGE         FPLWND2 34V/         102         D8858         0.8858 </td <td>Reservation</td> <td>Relief Amount</td> <td>Amount</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Reservation	Relief Amount	Amount							
Base         Sint Control         Sint Control         Between Head										
Source Control Area         Source Network         GSF         Area         Rek         Decrement/AVV         GSF         Factor         Amount (MW)           CRGE         HORSESHOE LAKE 138K/Y         191         0.00238 (CRGE         FPUNND2 34K/Y         1010         0.0038         0.028         0.086         1010         0.0856         0.0864         0.021         0.0856         0.0864         0.022         0.0023 <t< td=""><td>1032973</td><td>3 14.6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	1032973	3 14.6								
OKGE         LES 1614V         L. 100         0.00030         OKGE         FPU.WND2 34KV         L. 102         0.8883         0.8884         L2           OKGE         HONSESHOE LAKE 138KV         380         0.00230         OKGE         FPU.WND2 34KV         102         0.8853         0.8844         L2           OKGE         HONSESHOE LAKE 138KV         380         0.00230         OKGE         FPU.WND2 34KV         102         0.8853         0.8844         L2           OKGE         HONSESHOE LAKE 138KV         10         0.00230         OKGE         FPU.WND2 34KV         102         0.8853         0.8844         L2           OKGE         HUSKOGEE 161KV         106         0.00022         OKGE         FPU.WND2 34KV         102         0.8853         0.8849         L2           OKGE         MUSKOGEE 141KV         714.4385         0.00022         OKGE         FPU.WND2 34KV         102         0.8853         0.8854         L2           OKGE         MUSKOGEE 345KV         714.4385         0.00035         OKGE         FPU.WND2 34KV         102         0.8853         0.88245         L2           OKGE         MUSKOGEE 345KV         714.4385         0.00012         OKGE         FPU.WND2 34KV         102										
OKGE         MORSESHOE LAKE 138KV         91         0.00230 (KGE         FPLWND2 3KVV         102         0.8858         0.884         21           OKGE         MORSESHOE LAKE 138KV         380.0         0.00230 (KGE         FPLWND2 3KVV         102         0.8858         0.8854         21           OKGE         MORSESHOE LAKE 138KV         380.0         0.00230 (KGE         FPLWND2 3KVV         102         0.8858         0.8854         21           OKGE         MORSESHOE LAKE 138KV         108         0.00270 (KGE         FPLWND2 3KVV         102         0.8858         0.8854         21           OKGE         MUSKOGEE 161KV         116         0.00024 (KGE         FPLWND2 3KVV         102         0.8858         0.88594         21           OKGE         MUSKOGEE 161KV         316         0.00024 (KGE         FPLWND2 3KV         102         0.8858         0.88594         21           OKGE         MUSKANG 138V         3056         0.00051 (KGE         FPLWND2 3KV         102         0.8858         0.8859         21           OKGE         MUSKANG 138V         3050         0.0010 (KGE         FPLWND2 3KV         102         0.8858         0.88216         21           OKGE         NUSKANG 138V         4216										
OKGE         HORSESHGE LAKE 138K/         380         0.0236 (KGE         TPL/MND2 34K/         0.02 (0.8858)         0.884         21           OKGE         HORSESHGE LAKE 138K/         805.5         0.0236 (KGE         TPL/MND2 34K/         0.02 (0.8858)         0.884         21           OKGE         MCLAN 138K/         62.0         0.0376 (KGE         TPL/MND2 34K/         0.02 (0.8858)         0.8858         0.8858         0.2848         21           OKGE         MCLAN 138K/         63.0         0.0037 (KGE         TPL/MND2 34K/         0.01 (0.8858)         0.8858         0.2848         21           OKGE         MUSKOCEE 138K/         71.4386         0.00032 (KGE         TPL/MND2 34K/         102         0.8858         0.28858         22           OKGE         MUSTANG 138K/         71.4386         0.00032 (KGE         TPL/MND2 34K/         102         0.88583         22         2           OKGE         MUSTANG 138K/         10.6         0.0015 (KGE         TPL/MND2 34K/         102         0.88583         22         2         2         2         2         2         2         2         2         2         0.0028         2         2         2         2         2         2         2         2										
OKGE         HORSESHOE LAKE 138K/         380.5         0.0236         DKGE         FPLWND2 3KV/         102         0.8886         0.8846         121           OKGE         HORSESHOE LAKE 069K/         620         0.0376         DKGE         FPLWND2 3KV/         102         0.8866         0.8869         0.221           OKGE         MUSKOGEE 161K/         166         0.00042         DKGE         FPLWND2 3KV/         102         0.8869         0.8859         0.2829           OKGE         MUSKOGEE 161K/         131         0.0042         DKGE         FPLWND2 3KV/         102         0.8859         0.8859         0.8859         0.2829										
OKGE         HORSESHOE LAKE 66K/*         161         0.0027 (NGE         FPLWND2 34K/*         102         0.88036         -0.88040         22           OKGE         MULSKOGEE 161K/*         166         0.00042 (NGE         FPLWND2 34K/*         102         0.88056         -0.88058         22           OKGE         MUSKOGEE 161K/*         131         0.00042 (NGE         FPLWND2 34K/*         102         0.88058         -0.88058         22           OKGE         MUSKOGEE 161K/*         131         0.00042 (NGE         FPLWND2 34K/*         102         0.88058         -0.88058         22           OKGE         MUSKOGEE 346K/*         105         0.00042 (NGE         FPLWND2 34K/*         102         0.88658         -0.88058         22           OKGE         REDBUD 486K/*         106         0.0042 (NGE         FPLWND2 34K/*         102         0.88058         -0.8816         22           OKGE         REDBUD 486K/*         421 65         0.0016 (NGE         FPLWND2 34K/*         102         0.88936         -0.88476         22           OKGE         SEMINOLE 138K/*         4996         0.00182 (NGE         FPLWND2 34K/*         102         0.88936         -0.88476         22           OKGE         SUMINOLE 138K/*										
OKGE         MICCLAN 138V'         520         0.0375         OKGE         FPLWND2 34K'         102         0.8858         0.8858         22           OKGE         MUSKOGE 161K'         160         0.0042         OKGE         FPLWND2 34K'         102         0.8856         0.88594         22           OKGE         MUSKOGE 161K'         160         0.0042         OKGE         FPLWND2 34K'         102         0.8858         0.88594         22           OKGE         MUSKOGE 161K'         163         0.0033         OKGE         FPLWND2 34K'         102         0.8858         0.88594         22           OKGE         OKGE 0KGE 154K'         0.0153         OKGE         FPLWND2 34K'         102         0.8858         0.8859         28           OKGE         REDBUD 345K'         900         0.0015         OKGE         FPLWND2 34K'         102         0.8856         0.88476         22           OKGE         SEMINOLE 134K'         507 5516         0.01129         OKGE         FPLWND2 34K'         102         0.8856         0.88474         22           OKGE         SMITH COCHN 138K'         100         0.01129         OKGE         FPLWND2 34K'         102         0.88568         22 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>21</td></t<>										21
OKGE         MUSKOGEE         191KV         196         0.0042 (KrGE         FPLWND2 34KV         192         0.88836         0.28894         21           OKGE         MUSKOGEE         181KV         31         0.0042 (KrGE         FPLWND2 34KV         102         0.88636         0.28894         21           OKGE         MUSKOGEE         345KV         365.5         0.00388 (KrGE         FPLWND2 34KV         102         0.88636         0.8863         21           OKGE         MUSTANG 138KV         365.5         0.00388 (KrGE         FPLWND2 34KV         102         0.88636         0.88636         21           OKGE         OKGE         MUSTANG 138KV         336         0.0016 (KrGE         FPLWND2 34KV         102         0.88636         0.88676         21           OKGE         SEMINOLE 348KV         50.75616         0.0016 (KrGE         FPLWND2 34KV         102         0.88636         0.88676         21           OKGE         SEMINOLE 348KV         299967         0.0016 (KrGE         FPLWND2 34KV         102         0.88636         0.88676         22           OKGE         SOUNER 138KV         24.99967         0.0012 (KrGE         FPLWND2 34KV         102         0.88636         0.88876         22 <td></td>										
OKGE         MUSKOGEE 161KV         10         0.004 (2)         OKGE         FPLWND2 34VV         102         0.8883         0.88591         21           OKGE         MUSKOGEE 34KV         385.5         0.0053         OKGE         FPLWND2 34VV         102         0.8863         0.88248         21           OKGE         MUSTANG 59KV         365.5         0.0033         OKGE         FPLWND2 34VV         102         0.8863         0.88248         21           OKGE         MUSTANG 59KV         308         0.00421         OKGE         FPLWND2 34VV         102         0.8863         0.8843         21           OKGE         TONE OAK 345KV         400         0.0016         OKGE         FPLWND2 34VV         102         0.8863         0.88476         21           OKGE         SEMINCLE 38KV         421.65         0.0016         CKGE         FPLWND2 34VV         102         0.8863         0.88476         21           OKGE         SEMINCLE 38KV         496.0         0.0182         CKGE         FPLWND2 34V         102         0.8863         0.88476         21           OKGE         SEMINCLE 38KV         100         0.0030         CKGE         FPLWND2 34V         102         0.8868         0.8947										
OKGE         MUSKCOEE         MUSKCOEE         MUSKCOEE         MUSTANG         0.8883         0.8853         0.21           OKGE         MUSTANG         0.8877         36.55         0.00388         DKGE         FPLWND2         244V         102         0.88636         0.88246         21           OKGE         ONLO ANX         345V7         33.6         0.00153         DKGE         FPLWND2         244V         102         0.88636         0.88246         21           OKGE         TEDBUD 345KV         300         0.0016         DKGE         FPLWND2         244V         102         0.88636         0.88446         21           OKGE         TEDBUD 345KV         421.65         0.0016         DKGE         FPLWND2         244V         102         0.88636         0.88476         21           OKGE         SEMINOLE         138KV         420.5756         0.00189         DKGE         FPLWND2         24V         102         0.88636         0.88268         22           OKGE         SOMTH COEN 138KV         42.99997         0.0024         DKGE         FPLWND2         24V         102         0.88636         0.88268         22           OKGE         SOMTH 118KY         42.99997 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
OKGE         MUSTANG         138KV         365.5         0.0388         0.6CE         FPLWND2         34KV         102         0.88836         0.88248         221           OKGE         (DNE OAK 345KV         336         0.00121         0KGE         FPLWND2         34KV         102         0.88836         0.88243         221           OKGE         (TRDBUD)         345KV         300         0.0016         [CKGE         FPLWND2         34KV         102         0.88836         0.88476         221           OKGE         (TRDBUD)         345KV         421.65         0.00182         [CKGE         FPLWND2         34KV         102         0.88836         0.88476         221           OKGE         (SEMMOLE 138KV         996.6         0.00182         [CKGE         FPLWND2         34KV         102         0.88836         0.88266         221           OKGE         (SOUNER 138KV         424         9997         0.0028         [CKGE         FPLWND2         34KV         102         0.88836         0.8826         22           OKGE         (SOUNER 138KV         427         0.01423         [CKGE         FPLWND2         34KV         102         0.8836         0.88268         22         0.0023										21
OKGE         MUSTANG GRV         106         0.00421         OKGE         FPLWND2 34KV         102         0.88638         0.88215         21           OKGE         ONE OAK 345KV         336         0.0015         OKGE         FPLWND2 34KV         102         0.88563         0.88476         21           OKGE         REDBUD 345KV         421         0.0016         OKGE         FPLWND2 34KV         102         0.88563         0.88476         21           OKGE         SEMUNCLE 334KV         507.9516         0.0018         OKGE         FPLWND2 34KV         102         0.88563         0.88476         21           OKGE         SEMUNCLE 334KV         507.9516         0.0018         OKGE         FPLWND2 34KV         102         0.88566         0.88476         21           OKGE         SOUTH 4TH ST 66KV         24.9997         0.024 (OKGE         FPLWND2 34KV         102         0.88566         0.88276         21           OKGE         SOUTH 4TH ST 66KV         42.7         0.0242 (OKGE         FPLWND2 34KV         102         0.88566         0.88276         21           OKGE         SOUTH 4TH ST 66KV         42.7         0.0123 (OKGE         SLEPIND 24KV         102         0.86566         0.88296         0.8										21
OKGE         ONE OAK 345KV         338         0.0153 (DKGE         FPLWND2 34KV         102         0.88636         0.88483         21           OKGE         REDBUD 345KV         000         0.016 (DKGE         FPLWND2 34KV         102         0.88636         0.88476         21           OKGE         SEMINOLE 138KV         507.9516         0.0182 (DKGE         FPLWND2 34KV         102         0.88636         0.88447         21           OKGE         SEMINOLE 138KV         996.6         0.00182 (DKGE         FPLWND2 34KV         102         0.88636         0.88448         21           OKGE         SUMTH COGEN 138KV         10         0.00382 (DKGE         FPLWND2 34KV         102         0.88636         0.88876         21           OKGE         SOUNER 138KV         24.9997         0.0242 (DKGE         FPLWND2 34KV         102         0.88636         0.90059         21           OKGE         TINKER 5G 138KV         42.7         -0.01423 (DKGE         FPLWND2 34KV         102         0.88636         0.90059         21           OKGE         TINKER 5G 138KV         42.7         -0.01423 (DKGE         SELPIND BEAR 34KV         102         0.86306         0.90273         0.30           OKGE         HORSESHOE LAKE 13										
OKGE         FEDBUD 345KV         900         0.016 (OKGE         FPLWND2 34KV         102         0.8863         0.88476         21           OKGE         SEMINOLE 138KV         421.65         0.00182 (OKGE         FPLWND2 34KV         102         0.8863         0.8863         0.8863         0.8863         0.8863         0.8863         0.28863         0.8863         0.28										21
OKGE         TEDBUD 345KV         421.65         0.0016         OKGE         FPLWND2 34KV         102         0.88363         0.08475         21           OKGE         'SEMINOLE 345KV         507.9516         0.00189         OKGE         'PLWND2 34KV'         102         0.88363         0.08454         21           OKGE         'SEMINOLE 345KV         1010         0.00389         OKGE         'PLWND2 34KV'         102         0.88363         0.08426         21           OKGE         'SOMER 138KV'         1010         0.00389         OKGE         'PLWND2 34KV'         102         0.88363         0.08826         22           OKGE         'SOMER 138KV'         24.9997         0.0024         OKGE         'FLWND2 34KV'         102         0.88363         0.08826         22           OKGE         'SOUTH 4TH 5T         68KV         42.7         0.0142         OKGE         'FLWND2 34KV'         102         0.88363         0.08836         0.08836         0.08836         0.08836         0.08836         0.08836         0.08836         0.08836         0.08836         0.08836         0.08836         0.08836         0.08836         0.08836         0.08836         0.08836         0.08836         0.08836         0.08836         0.08										21
OKGE         SEMINOLE 138KV         507.551 6         0.00182         OKGE         FPLWND2 34KV         102         0.88836         0.8844         21           OKGE         SEMINOLE 138KV         10         0.00386         0KGE         FPLWND2 34KV         102         0.88836         0.88447         21           OKGE         SOUNER 138KV         24.99997         -0.00386         0KGE         FPLWND2 34KV         102         0.88836         0.88847         21           OKGE         SOUNER 138KV         24.99997         -0.01423         0KGE         FPLWND2 34KV         102         0.88836         0.89836         0.9838         22           OKGE         SOUTH 4TH ST 69KV         42.7         0.01423         0KGE         FPLWND2 34KV         102         0.8836         0.90838         22           OKGE         INVERT 56 138KV         42.7         0.01423         0KGE         SLEEPING BEAR 34KV         120         0.83019         0.62423         29           OKGE         INVER 56 138KV         910         0.00236         0KGE         SLEEPING BEAR 34KV         120         0.83019         0.62783         30           OKGE         HORSESHOE LAKE 138KV         380.5         0.00227         0KGE         SLEEPI										21
OKGE         SEMINUCE 345K/         996.6         0.01189         OKGE         FPLWND2 34KV         102         0.88658         0.98268         21           OKGE         SOUNER 138KV         24.99997         -0.0024         OKGE         FPLWND2 34KV         102         0.88658         0.98265         21           OKGE         SOUTH 4TH 55 (6KV         24.7         0.0123         OKGE         FPLWND2 34KV         102         0.88658         0.90059         21           OKGE         SOUTH 4TH 55 (6KV         42.7         0.01423         OKGE         FPLWND2 34KV         102         0.88658         0.90059         21           OKGE         SOUTH 4TH 55 (6KV         42.7         0.01423         OKGE         FPLWND2 34KV         102         0.88658         0.90059         21           OKGE         SUTH 4TH 3T (6KV         42.7         0.01423         OKGE         FPLWND2 34KV         120         0.65019         0.62036         30           OKGE         SUTH 4TH 4TH 3T (6KV         42.7         0.01423         OKGE         SLEPING BEAR 34KV         120         0.63019         0.62783         33           OKGE         HORESEHOE LAKE 138KV         380.5         0.00228         OKGE         SLEPING BEAR 34KV	OKGE	'REDBUD 345KV'	421.65			'FPLWND2 34KV'	102	0.88636	-0.88476	
OKGE         SMITH COGEN 138KV         110         0.00380         OKGE         FPLWND2 34KV         102         0.88638         0.988286         21           OKGE         SOUTH 14TH ST 69KV         24 99997         -0.0024         OKGE         FPLWND2 34KV         102         0.88638         -0.98826         21           OKGE         SOUTH 14TH ST 69KV         42.7         -0.01423         OKGE         FPLWND2 34KV         102         0.88638         -0.88836         -0.88836         -0.88836         -0.88836         -0.88836         -0.88836         -0.88836         -0.88836         -0.88836         -0.88836         -0.88836         -0.88836         -0.88836         -0.88836         -0.88836         -0.88836         -0.8833         -0.88836         -0.8833         -0.88636         -0.8833         -0.8833         -0.8833         -0.8833         -0.8833         -0.8833         -0.8833         -0.8833         -0.8833         -0.8628         -0.8628         -0.8638         -0.8633         -0.8333         -0.303         -0.8628         -0.86283         -0.833         -0.303         -0.86283         -0.8233         -0.303         -0.86283         -0.8233         -0.303         -0.86283         -0.8233         -0.303         -0.86284         -0.82319         -0.62783	OKGE									21
OKGE         SOONER 138KV         24.9997         -0.0024         OKGE         FPLWND2 34KV         102         0.86636         -0.80876         21           OKGE         SOUTH 4TH 15 69KV         42.7         -0.01420         OKGE         FPLWND2 34KV         102         0.86636         -0.90059         21           OKGE         TINKER 6G 138KV         62         0.00256         OKGE         FPLWND2 34KV         102         0.863616         -0.90359         21           OKGE         SUTH 4TH 15 66KV         42.7         0.01423         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.6283         30           OKGE         HORSESHOE LAKE 138KV         180         0.00236         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62783         30           OKGE         HORSESHOE LAKE 138KV         380         0.0226         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62783         30           OKGE         HORSESHOE LAKE 138KV         380         0.00226         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62783         30           OKGE         MUSCAGE 161KV         16         0.00227         OKGE         SLEEPING BE										
OKGE         SOUTH 4TH ST 69KV         42.7         -0.01423         OKGE         FPLWND2 34KV         102         0.86636         -0.9059         21           OKGE         TINKER 6G 138KV         62         0.00260         KGE         FPLWND2 34KV         102         0.86636         -0.8833         21           OKGE         SOUTH 4TH ST 69KV         42.7         -0.01423         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.64442         29           OKGE         AES 101KV         160         0.00236         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62783         30           OKGE         HORSESHOE LAKE 138KV         330         0.00236         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62783         30           OKGE         HORSESHOE LAKE 138KV         330         0.00236         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62783         30           OKGE         HORSESHOE LAKE 138KV         360         0.00226         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62717         30           OKGE         MUSKOGEE 161KV         160         0.00042         OKGE         SLEEPING B		'SMITH COGEN 138KV'				'FPLWND2 34KV'				21
OKGE         TINKER §G 138KV         662         0.00260         OKGE         FPLWND2 34KV         102         0.88638         0.2838         21           OKGE         SOUTH 4TH 5 @6KV         427         0.01230         OKGE         SLEEPING BEAR 34KV         120         0.63019         0.6283         33           OKGE         HORSESHOE LAKE 138KV         191         0.00330         OKGE         SLEEPING BEAR 34KV         120         0.63019         0.6283         33           OKGE         HORSESHOE LAKE 138KV         380.5         0.00236         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62783         33           OKGE         HORSESHOE LAKE 138KV         380.5         0.00236         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62783         30           OKGE         HORSESHOE LAKE 69KV         16         0.00236         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62783         30           OKGE         MUCSCALM 138KV         52         0.00378         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62777         30           OKGE         MUCSCOEE 161KV         166         0.00032         OKGE         SL										21
OKGE         SOUTH ATH ST 69KV         42.7         0.01423         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.64442         292           OKGE         YAES 161KY         180         0.00236         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.6233         33           OKGE         HORSESHOE LAKE 138KV         391         0.0236         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62783         33           OKGE         HORSESHOE LAKE 138KV         380         0.0228         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62783         33           OKGE         HORSESHOE LAKE 138KV         380         0.0228         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62783         33           OKGE         HORSESHOE LAKE 69KV         16         0.0227         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62783         33           OKGE         MUSKOGEE 161KV         160         0.0042         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62771         33           OKGE         MUSKOGEE 161KV         131         0.0042         OKGE         SL										
OKGE         'AES 161KV'         160         0.00036         OKGE         SLEEPING BEAR 34KV'         120         0.63019         -0.6283         303           OKGE         'HORSESHOE LAKE 138KV'         91         0.00236         OKGE         'SLEEPING BEAR 34KV'         120         0.63019         -0.62783         303           OKGE         'HORSESHOE LAKE 138KV'         3360         0.00236         OKGE         'SLEEPING BEAR 34KV'         120         0.63019         -0.62783         303           OKGE         'HORSESHOE LAKE 138KV'         380         0.00237         OKGE         SLEEPING BEAR 34KV'         120         0.63019         -0.62783         303           OKGE         'HORSESHOE LAKE 69KV         16         0.00227         OKGE         SLEEPING BEAR 34KV'         120         0.63019         -0.62783         303           OKGE         'MUSKOCEE 161KV'         166         0.00227         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62777         303           OKGE         'MUSKOCEE 161KV'         316         0.0042         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62977         303           OKGE         'MUSKOCEE 161KV'         316         0.0042         <		'TINKER 5G 138KV'				'FPLWND2 34KV'		0.88636		21
OKGE         HORSESHOE LAKE 138KV         91         0.00236         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62783         33           OKGE         HORSESHOE LAKE 138KV         380.5         0.00236         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62783         33           OKGE         HORSESHOE LAKE 138KV         380.5         0.00236         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62783         30           OKGE         HORSESHOE LAKE 138KV         120         0.63019         -0.62783         30           OKGE         MORCLAN 138KV         120         0.63019         -0.62792         30           OKGE         MUSKOGEE 161KV         160         0.0022         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62797         30           OKGE         MUSKOGEE 161KV         160         0.00042         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62977         30           OKGE         MUSKOGEE 161KV         131         0.00053         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62966         30           OKGE         MUSTANG 38KV         38	OKGE	'SOUTH 4TH ST 69KV'	42.7			'SLEEPING BEAR 34KV'	120	0.63019	-0.64442	29
OKGE         HORSESHOE LAKE 138KV         336         0.00236         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62783         330           OKGE         HORSESHOE LAKE 138KV         330         0.00236         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62783         330           OKGE         HORSESHOE LAKE 138KV         16         0.0227         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62783         330           OKGE         MCCLNN 138KV         520         0.0378         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62792         30           OKGE         MUSKOCEE 161KV         166         0.00227         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62977         30           OKGE         MUSKOCEE 161KV         31         0.0042         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62977         30           OKGE         MUSKOCEE 345KV         714.4385         0.00050         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62966         30           OKGE         MUSTANG 50KV         106         0.00421         OKGE         S	OKGE									30
OKGE         HORSESHOE LAKE 138KV         330         0.0238         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62783         330           OKGE         HORSESHOE LAKE 69KV         16         0.00237         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62783         330           OKGE         MCCLAIN 138KV         520         0.00378         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62841         300           OKGE         MUSKOCEE 161KV         166         0.0042         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62841         300           OKGE         MUSKOCEE 161KV         166         0.0042         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62841         300           OKGE         MUSKOCEE 161KV         71.41385         0.00053         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62977         30           OKGE         MUSTANG 69KV         71.41385         0.00053         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62971         30           OKGE         MUSTANG 69KV         71.61.303         0.0053         OKGE										
OKGE         HORSESHOE LAKE ØRV         16         0.0227         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.6272         33           OKGE         MUCLAN 138KV         520         0.0027         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.6274         33           OKGE         MUSKOGEE 161KV         166         0.00042         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62971         30           OKGE         MUSKOGEE 161KV         31         0.00042         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62971         30           OKGE         MUSKOGEE 345KV         714.4365         0.00042         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62966         30           OKGE         MUSTANG 59KV         316         0.00151         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62989         30           OKGE         MUSTANG 59KV         366         0.00151         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62989         30           OKGE         WUSTANG 59KV         366         0.00151         OKGE         SLEEPING BEAR 34KV		'HORSESHOE LAKE 138KV'				'SLEEPING BEAR 34KV'				30
OKGE         MCCLAIN 138KV         520         0.00378         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62841         330           OKGE         MUSKOGEE 161KV         166         0.0042         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62877         33           OKGE         MUSKOGEE 161KV         31         0.0042         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62877         33           OKGE         MUSKOGEE 43KV         714.4385         0.00053         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62866         30           OKGE         MUSTANG 63KV         136.5         0.0038         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62866         30           OKGE         MUSTANG 63KV         160         0.00421         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62866         30           OKGE         NUSTANG 69KV         160         0.00421         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62866         30           OKGE         REDUD 345KV         20         0.0163         OKGE         SLEPING BEAR 34KV		'HORSESHOE LAKE 138KV'	380			'SLEEPING BEAR 34KV'	120			30
OKGE         MUSKOGEE 161KV         166         0.0042         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62877         33           OKGE         MUSKOGEE 161KV         31         0.0042         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62977         33           OKGE         MUSKOGEE 161KV         714.4385         0.00053         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62966         30           OKGE         MUSTANG 138KV         305.5         0.00380         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62966         30           OKGE         MUSTANG 69KV         106         0.00150         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62589         30           OKGE         ONE OAK 345KV         306         0.00150         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62589         30           OKGE         ONE OAK 345KV         300         0.0016         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62589         30           OKGE         REDBUJ 345KV         421.65         0.0016         OKGE         SLEEPING BEAR 34KV </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>30</td>										30
OKGE         MUSKOGEE 161KV         31         0.0042         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62971         33           OKGE         MUSKOGEE 43KV         714.4385         0.00030         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62966         33           OKGE         MUSTANG 138KV         120         0.63019         -0.62966         33           OKGE         MUSTANG 68KV         120         0.63019         -0.62966         33           OKGE         MUSTANG 68KV         120         0.63019         -0.62968         33           OKGE         SLEPING BEAR 34KV         120         0.63019         -0.62968         33           OKGE         ONE OAK 345KV         120         0.63019         -0.62968         33           OKGE         REDBUD 345KV         120         0.63019         -0.62869         33           OKGE         REDBUD 345KV         421.65         0.0016         OKGE         SLEPING BEAR 34KV         120         0.63019         -0.62859         33           OKGE         REDBUD 345KV         421.65         0.0016         OKGE         SLEPING BEAR 34KV         120         0.63019         -0.62859         3		'MCCLAIN 138KV'	520			'SLEEPING BEAR 34KV'		0.63019		30
OKGE         MUSKOGEE 345KV         714.4385         0.00053         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62966         30           OKGE         MUSTANG 59KV         106         0.00421         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62961         30           OKGE         MUSTANG 59KV         106         0.00421         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62961         30           OKGE         ONE 0AK 345KV         336         0.00153         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62861         30           OKGE         ONE 0AK 345KV         330         0.0016         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62869         30           OKGE         REDBUD 345KV         421.65         0.0016         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62859         30           OKGE         SEMINOLE 138KV         421.65         0.0016         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62837         30           OKGE         SEMINOLE 345KV         996.6         0.00182         OKGE         SLEEPING BEAR 34		'MUSKOGEE 161KV'	166			'SLEEPING BEAR 34KV'	120			30
OKGE         MUSTANG 038KV         036.5         0.00388         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62831         030           OKGE         'MUSTANG 08KY         106         0.00421 OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62838         030           OKGE         'ONE 0AK 345KV         120         0.63019         -0.62898         030           OKGE         'REDBUD 345KV'         120         0.63019         -0.62898         030           OKGE         'REDBUD 345KV'         120         0.63019         -0.62895         030           OKGE         'REDBUD 345KV'         120         0.63019         -0.62895         030           OKGE         'REDBUD 345KV'         120         0.63019         -0.62859         030           OKGE         SEMINOLE 138KV'         20.016         0KGE         SLEPING BEAR 34KV'         120         0.63019         -0.62859         30           OKGE         SEMINOLE 138KV'         20.0180         0KGE         SLEPING BEAR 34KV'         120         0.63019         -0.6283         30           OKGE         SEMINOLE 138KV'         906.6         0.0180         OKGE         SLEPING BEAR 34KV         120	OKGE	'MUSKOGEE 161KV'		0.00042	OKGE	'SLEEPING BEAR 34KV'		0.63019	-0.62977	30
OKGE         MUSTANG 69KV         106         0.0421         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62859         30           OKGE         'ONE OAK 345KV'         336         0.00163         OKGE         SLEEPING BEAR 34KV'         120         0.63019         -0.62859         30           OKGE         'REDBUD 345KV'         120         0.63019         -0.62859         30           OKGE         'REDBUD 345KV'         120         0.63019         -0.62859         30           OKGE         'REDBUD 345KV'         421.65         0.0016         OKGE         SLEEPING BEAR 34KV'         120         0.63019         -0.62859         30           OKGE         'REDBUD 345KV'         421.65         0.0016         OKGE         'SLEEPING BEAR 34KV'         120         0.63019         -0.62859         30           OKGE         'SEMINOLE 345KV'         507.9516         0.00182         OKGE         'SLEEPING BEAR 34KV'         120         0.63019         -0.62837         30           OKGE         'SEMINOLE 345KV'         996.6         0.00189         VKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62837         30           OKGE         'SEMINOLE 345KV'         100<		'MUSKOGEE 345KV'	714.4385			'SLEEPING BEAR 34KV'		0.63019	-0.62966	30
OKGE         'ONE OAK 345KV'         336         0.00153         OKGE         'SLEEPING BEAR 34KV'         120         0.63019         -0.62869         330           OKGE         'REDBUD 345KV'         120         0.63019         -0.62869         330           OKGE         'REDBUD 345KV'         120         0.63019         -0.62859         330           OKGE         'REDBUD 345KV'         120         0.63019         -0.62859         330           OKGE         'SEMINOLE 138KV'         120         0.63019         -0.62859         330           OKGE         'SEMINOLE 138KV'         120         0.63019         -0.62859         330           OKGE         'SEMINOLE 345KV'         120         0.63019         -0.62859         330           OKGE         'SEMINOLE 345KV'         100         0.03182         OKGE         SLEPING BEAR 34KV'         120         0.63019         -0.62851         330           OKGE         'SEMINOLE 345KV'         100         0.0386         OKGE         SLEPING BEAR 34KV'         120         0.63019         -0.62851         300           OKGE         'SMITH COCEN 138KV'         100         0.0386         OKGE         SLEPING BEAR 34KV'         120         0.63019         <	OKGE	'MUSTANG 138KV'	365.5	0.00388	OKGE	'SLEEPING BEAR 34KV'	120	0.63019	-0.62631	30
OKGE         REDBUD 345KV         000         0.0016         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62859         30           OKGE         'REDBUD 345KV'         421.65         0.0016         OKGE         'SLEPING BEAR 34KV'         120         0.63019         -0.62859         30           OKGE         'SEMINOLE 138KV'         507.9516         0.00182         OKGE         'SLEPING BEAR 34KV'         120         0.63019         -0.62837         30           OKGE         'SEMINOLE 345KV'         996.6         0.00182         OKGE         'SLEEPING BEAR 34KV'         120         0.63019         -0.62837         30           OKGE         'SEMINOLE 345KV'         996.6         0.00180         OKGE         'SLEEPING BEAR 34KV'         120         0.63019         -0.6283         30           OKGE         'SEMINOLE 345KV'         101         0.00360         OKGE         'SLEEPING BEAR 34KV'         120         0.63019         -0.6283         30           OKGE         'SOONER 138KV'         24.99997         -0.0024         OKGE         'SLEEPING BEAR 34KV'         120         0.63019         -0.6283         30           OKGE         'SOONER 138KV'         22         0.00240         KGE	OKGE	'MUSTANG 69KV'	106	0.00421	OKGE	'SLEEPING BEAR 34KV'	120	0.63019	-0.62598	30
OKGE         REDBUD 345KV         421.65         0.0016         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62859         33           OKGE         SEMINOLE 138KV         507.9516         0.0162         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62859         33           OKGE         SEMINOLE 345KV         996.6         0.0183         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.6283         33           OKGE         SEMINOLE 345KV         10         0.00368         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.6283         33           OKGE         SMITH COGEN 138KV         110         0.00368         OKGE         SLEPING BEAR 34KV         120         0.63019         -0.6283         30           OKGE         SOUNER 138KV         10         0.00368         OKGE         SLEPING BEAR 34KV         120         0.63019         -0.62851         30           OKGE         SOUNER 138KV         24.99997         -0.0024         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62259         30           OKGE         TINKER 5G         138KV         62         0.00260         KCE	OKGE	'ONE OAK 345KV'	336			'SLEEPING BEAR 34KV'	120	0.63019	-0.62866	30
OKGE         'SEMINOLE 138KV'         507.9516         0.00182         OKGE         'SLEEPING BEAR 34KV'         120         0.63019         -0.62837         33           OKGE         'SEMINOLE 345KV'         996.6         0.00189         OKGE         'SLEPING BEAR 34KV'         120         0.63019         -0.62837         33           OKGE         'SEMINOLE 345KV'         996.6         0.00189         OKGE         'SLEPING BEAR 34KV'         120         0.63019         -0.6283         30           OKGE         'SMITH COGEN 138KV'         110         0.00380         OKGE         'SLEPING BEAR 34KV'         120         0.63019         -0.62851         30           OKGE         'SOORER 138KV'         24.99971         -0.0024         OKGE         'SLEPING BEAR 34KV'         120         0.63019         -0.62859         30           OKGE         'SLORER 138KV'         24.99971         -0.0024         OKGE         'SLEPING BEAR 34KV'         120         0.63019         -0.62859         30           OKGE         'TINKER 5G 138KU'         29         0.0024         OKGE         'SLEPING BEAR 34KV'         120         0.63019         -0.62763         30           Waximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the		'REDBUD 345KV'				'SLEEPING BEAR 34KV'		0.63019		30
OKGE         SEMINOLE 345KV         996.6         0.0199         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.6283         33           OKGE         SMITH COGEN         138KV         110         0.00380         KGE         SLEEPING BEAR 34KV         120         0.63019         -0.6283         33           OKGE         SOONER 138KV         110         0.00380         KGE         SLEEPING BEAR 34KV         120         0.63019         -0.6283         30           OKGE         SOONER 138KV         24.9997         -0.0024         OKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62259         30           OKGE         TINKER 5G         138KV         62         0.00260         CKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62259         30           OKGE         TINKER 5G         138KV         62         0.00260         CKGE         SLEEPING BEAR 34KV         120         0.63019         -0.62763         30	OKGE	'REDBUD 345KV'	421.65	0.0016	OKGE	'SLEEPING BEAR 34KV'		0.63019	-0.62859	30
OKGE         'SEMINOLE 345KV'         996.6         0.00189         OKGE         'SLEEPING BEAR 34KV'         120         0.63019         -0.6283         300           OKGE         'SMITH COGEN 138KV'         110         0.0088         OKGE         'SLEEPING BEAR 34KV'         120         0.63019         -0.6283         300           OKGE         'SOONER 138KV'         24.99997         -0.0024         OKGE         'SLEEPING BEAR 34KV'         120         0.63019         -0.6283         300           OKGE         'SOONER 138KV'         24.99997         -0.0024         OKGE         'SLEEPING BEAR 34KV'         120         0.63019         -0.62559         300           OKGE         'TINKER SG         138KV'         62         0.00260         OKGE         'SLEEPING BEAR 34KV'         120         0.63019         -0.62763         300           OKGE         'TINKER SG         138KV'         62         0.00260         OKGE         'SLEEPING BEAR 34KV'         120         0.63019         -0.62763         300           OKGE         'TINKER SG         138KV'         62         0.00260         OKGE         'SLEEPING BEAR 34KV'         120         0.63019         -0.62763         300	OKGE	'SEMINOLE 138KV'	507.9516	0.00182	OKGE	'SLEEPING BEAR 34KV'	120	0.63019	-0.62837	30
OKGE         'SMITH COGEN 138KV'         110         0.00368         OKGE         'SLEEPING BEAR 34KV'         120         0.63019         -0.62651         30           OKGE         'SOONER 138KV'         24.99997         -0.0024         OKGE         'SLEEPING BEAR 34KV'         120         0.63019         -0.63259         30           OKGE         'TINKER 5G         138KV'         62         0.0026         OKGE         'SLEEPING BEAR 34KV'         120         0.63019         -0.63259         30           OKGE         'TINKER 5G         138KV'         62         0.0026         OKGE         'SLEEPING BEAR 34KV'         120         0.63019         -0.62763         30           Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.         120         0.63019         -0.62763         30		'SEMINOLE 345KV'	996.6	0.00189	OKGE	'SLEEPING BEAR 34KV'	120	0.63019	-0.6283	30
OKGE         'SOONER 138KV'         24 99997         -0.0024         OKGE         'SLEEPING BEAR 34KV'         120         0.63019         -0.63259         30           OKGE         'TINKER 5G 138KV'         62         0.0026         OKGE         'SLEEPING BEAR 34KV'         120         0.63019         -0.63259         30           Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.         30         30         30	OKGE	'SMITH COGEN 138KV'	110	0.00368	OKGE	'SLEEPING BEAR 34KV'	120	0.63019	-0.62651	30
OKGE         'TINKER 5G         138KV'         62         0.00256         OKGE         'SLEEPING BEAR         34KV'         120         0.63019         -0.62763         30           Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.         120         0.63019         -0.62763         30	OKGE	'SOONER 138KV'	24.99997	-0.0024	OKGE	'SLEEPING BEAR 34KV'	120	0.63019	-0.63259	30
Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.	OKGE	'TINKER 5G 138KV'	62	0.00256	OKGE	'SLEEPING BEAR 34KV'	120	0.63019	-0.62763	30
			Operating Points in the	he study mo	dels where limi	ting facility was identified.				

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

United profile         PFL SWITCH - MODELAND 138V/CKT 1           Director:         From 200	Upgrade:	FPL SWITCH - MOORELAND 138KV CKT 1 OKGE AND			ORV CKT 1 W	FEC				
Directory         Pron-Yo           Line Outage:         VCI-WOODWARD BWY CKT 11           Powyate:         Softassion Statussover Hub PA kt           Softassion Floring Loop Floring         200 Floring Loop Floring           Season Floring Loop Floring         Agregate Relef           Number         200 Floring Loop Floring           Season Floring Loop Floring         Agregate Relef           Number         102273           Season Floring Loop Floring         Season Floring Loop Floring           Season Floring Loop Floring         Season Floring Loop Floring           Season Floring Loop Floring Loop Floring         Season Floring Loop Floring           CKGE         CONTINENTAL EMPRE 138N/         Season Floring Loop Floring           CKGE         CONTINENTAL EMPRE 138N/         Season Floring Loop Floring         Season Floring Loop Floring           CKGE         HORESENG LAKE 138N/         388         -0.0000 CKGE         TPLWNDQ 34N/         102         0.99327         -0.99321         177           CKGE         MCGLAM 138N/         42         0.0000 CKGE         TPLWNDQ 34N/         102         0.99321         0.99321         177           CKGE         MUSCANE 134N/         166         0.0000 CKGE         TPLWNDQ 34N/         102         0.99321         0			FFE SWITCH - WOO	KELAND IS	JORV CRI I W	rec .				
Line Outge:         VICI - WOODWARD GRV CH 1           Drogate:         D0106 - 120106           Data Instantia         D0106 - 120106           Status Instantia         D0106 - 120106           Status Instantia         Agregate Relif           Reservation         Relif Amount         Agregate Relif           Scores Control Ana         Source Control Ana         Boroant (MV)         Sign Ana           Scores Control Ana         Source Control Ana         Boroant (MV)         Sign Ana         Monomut MV           Scores Control Ana         Source Control Ana         Source Control Ana         Boroant (MV)         Sign Ana         Monomut MV         Monomut MV         Monomut MV         Sign Ana         Monomut MV         Monomut MV         Monomut MV         Mon										
Envage         Strössogen Isobersonen Huber A           Ban Reingsacht 01:71/06           Strassonen Forsgatte identifiet         200 Fäl Pauk           103277         Annonen           Strassonen Forsgatte identifiet         200 Fäl Pauk           103277         Tri 70           Strassonen Forsgatte identifiet         200 Fäl Pauk           Strassonen Forsgatte identifiet         100 Fäl Pauk           Strassonen Forsgatte identifiet         200 Fäl Pauk           Strassonen Forsgatte identifiet         200 Fäl Pauk           Strassonen Föl Pauk         200 Fäl Pauk           Strassonen Föl Pauk         200 Fäl Pauk           Strassonen Föl Pauk         200 Fäl Pauk           Strassonen Fäl Pauk         200 Fäl Pauk										
Date Resident Needed:         10/106 - 12/106           Secont Provide Intention:         Approprie Relief           10.20273         17.0           Scient Concept Level         Noncert           10.20273         17.0           Scient Concept Level         Sink Control           Scient Concept Level         Noncert           OKGE         CONTINENTIAL MEMPRE 138K/V         68           Noncept Level         HORSENVEL LAKE 138K/V         180         -00003 CKGE         FPLVMD2 3K/V         1020         0.99327         -0.9933         171           CKGE         HORSENVEL LAKE 138K/V         48         -00003 CKGE         FPLVMD2 3K/V         1020         0.99327         -0.9933         171           CKGE         HORSENVEL LAKE 138K/V         48         -00003 CKGE         FPLVMD2 3K/V         1020         0.99327         -0.9933         171           CKGE         HORSENVEL LAKE 138K/V         48         -00000 CKGE         FPLVMD2 3K/V         1020         0.99327         -0.9933         171										
Season Flowgate Identifier         2006 Fail Peak           Reservation         Appropriate Relief Anount         Anount         Anount </td <td></td>										
Reservation         Apgrographe Relief Anount         Appropriate Relief Anount         Approprint Relief Anount         Appropriate Relie										
Restort Ansult         Ansult Ansult           1032073         170         170         170           Source Control Ansa         Source Control Ansa </td <td>Season Flowgate Identified.</td> <td>2000 Fall Feak</td> <td>Aggregate Poliof</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Season Flowgate Identified.	2000 Fall Feak	Aggregate Poliof							
103237         17.0         17.0           Source Control Ana         Source Control Ana         Source Control Ana         Source Control Ana         Decrement(NW)         CSF         Factor Annual (NW)           Source Control Ana         CONTINENTAL ELME 1198/V         63         Oxido Control Ana         Decrement(NW)         CSF         Factor Annual (NW)           OKCE         HORESENCE LAKE 138/V         330         -0.00030 CKGE         FPU:MDD 34KV         162         0.99227         -0.9933         177           CKGE         HORESENCE LAKE 138/V         330         -0.00030 CKGE         FPU:MDD 34KV         162         0.9927         -0.9933         177           CKGE         HORESENCE LAKE 138/V         306         -0.00030 CKGE         FPU:MDD 34KV         162         0.9927         -0.9933         177           CKGE         MCLAKI 138/V         42         -0.00030 CKGE         FPU:MDD 34KV         162         0.9927         -0.9933         177           CKGE         MLSKGGEE 181KV         131         0.0001 CKGE         FPU:MDD 34KV         162         0.9927         -0.9933         177           CKGE         MLSKGGEE 181KV         1381         0.00001 CKGE         FPU:MDD 34KV         162         0.9927         -0.9923	Pacapution	Boliof Amount								
Bound Control         Maximum         Control         Name         Name </td <td></td>										
Source         Normer(MW)         GSF         Aras         Nrk         Decement(MV)         CSF         Factor         Amount (MV)           OKGE         CONTRENTAL EMPRE 138KY         96         0.00026         (KGE         TPL/MND2 34KY         102         0.99327         -0.99337         -0.99327	1032373	11.5			Sink Control		Maximum	1	1	Redienatch
CKCE         CONTINENTAL EMPIRE 138KV         6.3         0.0002         KKCE         FPLWND2 34KV         102         0.99327         0.99331         17           CKGE         HORSESHOE LAKE 138KV         380         0.0003         KKGE         FPLWND2 34KV         102         0.99337         0.99333         17           CKGE         HORSESHOE LAKE 138KV         380         0.0003         KKGE         FPLWND2 34KV         102         0.99327         0.99333         17           CKGE         HORSESHOE LAKE 138KV         161         0.0003         KKGE         FPLWND2 34KV         102         0.99327         0.99333         17           CKGE         MCLAN 138KV         42         0.0001         CKGE         FPLWND2 34KV         102         0.99327         0.99333         17           CKGE         MULSKOEE 161KV         166         0.0001         CKGE         FPLWND2 34KV         102         0.98327         0.98333         17           CKGE         MULSTANC 138V         386.5         0.00007         CKGE         FPLWND2 34KV         102         0.98327         0.98333         17           CKGE         TOLSANA 59KV         396         0.00007         CKGE         FPLWND2 34KV         102 <td< td=""><td>Source Control Area</td><td>Source</td><td></td><td>GSE</td><td></td><td>Sink</td><td></td><td>GSE</td><td>Factor</td><td></td></td<>	Source Control Area	Source		GSE		Sink		GSE	Factor	
BORSESHOE LAKE 138KV         91         0.0003 (DKGE         FPLWND2 34KV         102         0.99327         0.9933         17           OKGE         HORSESHOE LAKE 138KV         380.5         0.0003 (DKGE         FPLWND2 34KV         102         0.99327         0.9933         17           OKGE         HORSESHOE LAKE 138KV         380.5         0.0003 (DKGE         FPLWND2 34KV         102         0.99327         0.9933         17           OKGE         MCLAIN 138KV         42         0.0001 (DKGE         FPLWND2 34KV         102         0.99327         0.9933         17           OKGE         MLSKOGEE 161V/         16         0.00001 (DKGE         FPLWND2 34KV         102         0.99327         0.99338         17           OKGE         MLSKOGEE 545KV         20         0         0.00001 (DKGE         FPLWND2 34KV         102         0.99327         0.99333         17           OKGE         MLSKOGEE 545KV         20         0         0.00001 (DKGE         FPLWND2 34KV         102         0.99327         0.99333         17           OKGE         MLSKOGEE 545KV         20         0.00001 (DKGE         FPLWND2 34KV         102         0.99327         0.99337         177           OKGE         MLSKAMKY </td <td></td>										
IOKSEE         HORSESHOE LAKE 138KV         360         0.00030 [OKGE         FPLWND2 34KV         102         0.99327         0.9933         177           OKGE         HORSESHOE LAKE 98KV         16         0.00030 [OKGE         FPLWND2 34KV         102         0.99327         0.9933         177           OKGE         MCLAIN 138KV         42         0.00007 [OKGE         FPLWND2 34KV         102         0.99327         0.99336         177           OKGE         MUSKOGEE 181KV         31         0.00007 [OKGE         FPLWND2 34KV         102         0.99327         0.99336         177           OKGE         MUSKOGEE 181KV         16         0.00001 [OKGE         FPLWND2 34KV         102         0.99327         0.99326         177           OKGE         MUSKOGEE 348KV         20         0         0.00007 [OKGE         FPLWND2 34KV         102         0.99327         0.99326         177           OKGE         MUSKOGEE 348KV         20         0         0.00007 [OKGE         FPLWND2 34KV         102         0.99327         0.99326         177           OKGE         TOME OK 348KV         353         0.0001 [OKGE         FPLWND2 34KV         102         0.99327         0.9333         177           OKGE										
DKGE         HORSENDE LAKE 138KV         380.5         0.00033         DKGE         FPLWND2 34KV         102         0.99327         0.99331         177           OKGE         MCCLAN 138KV         42         0.0003         DKGE         FPLWND2 34KV         102         0.99327         0.99334         177           OKGE         MUSKOGEE 161KV         31         0.0001         DKGE         FPLWND2 34KV         102         0.99327         0.99336         177           OKGE         MUSKOGEE 161KV         166         0.0001         DKGE         FPLWND2 34KV         102         0.99327         0.99336         177           OKGE         MUSKOGEE 161KV         20         0         DKGE         FPLWND2 34KV         102         0.99327         0.99334         177           OKGE         MUSTANG 68KV         365         0.0007         DKGE         FPLWND2 34KV         102         0.99327         0.99334         177           OKGE         MUSTANG 68KV         360         0.0007         KGE         FPLWND2 34KV         102         0.99327         0.99334         177           OKGE         TOKE DA 345KV         49007         490         0.KGE         FPLWND2 34KV         102         0.99327										
IDENCE         HORRESHOE LAKE 69KV         16         0.00037         DKGE         FPLWND2 34KV         102         0.99327         0.99334         177           OKGE         MULSKOGEE 161KV         311         0.0007         DKGE         FPLWND2 34KV         102         0.99327         0.99336         177           OKGE         MULSKOGEE 161KV         311         0.0007         DKGE         FPLWND2 34KV         102         0.99327         0.99326         177           OKGE         MULSKOGEE 161KV         305         0.0006         DKGE         FPLWND2 34KV         102         0.99327         0.99321         0.99327         0.99334         177           OKGE         MULSTAKG 58KV         306         0.00007         DKGE         FPLWND2 34KV         102         0.99327         0.99334         177           OKGE         MUSTAKG 69KV         306         0.00001         DKGE         FPLWND2 34KV         102         0.99327         0.99327         177           OKGE         REDBUD 345KV         421.0681         0.00001         DKGE         FPLWND2 34KV         102         0.99327         0.99327         177           OKGE         SEMINOLE 138KV         242.0861         177         DKGE         FPL										
DKCE         MCCLAN 138KV         42         0.0007         DKGE         FPLWND2 34KV         102         0.99327         0.99334         177           OKGE         MUSKOGEE 161KV         168         0.0001         DKGE         FPLWND2 34KV         102         0.99328         177           OKGE         MUSKOGEE 454KV         20         0         DKGE         FPLWND2 34KV         102         0.99327         0.99328         177           OKGE         MUSTANG 138KY         365.5         0.00007         CKGE         FPLWND2 34KV         102         0.99327         0.99333         177           OKGE         MUSTANG 69KV         138         0.00007         CKGE         FPLWND2 34KV         102         0.99327         0.99333         177           OKGE         REDBUD 346KV         338         0.00007         CKGE         FPLWND2 34KV         102         0.99327         0.99334         177           OKGE         REDBUD 346KV         338         0.00007         CKGE         FPLWND2 34KV         102         0.99327         0.99328         177           OKGE         REDBUD 346KV         421.66         0.00004         CKGE         FPLWND2 34KV         102         0.99327         0.99327										
IOKGE         MUSKOGEE 16HV         131         0.0001         (KGE         FPLWND2 34KV         102         0.99327         0.99326         177           OKGE         MUSKOGEE 16HV         166         0.0001         (KGE         FPLWND2 34KV         102         0.99327         0.99328         177           OKGE         MUSKAGEE 136KV         20         0.0KGE         FPLWND2 34KV         102         0.99327         0.99333         177           OKGE         MUSTANG 59KV         108         0.00007         (KGE         FPLWND2 34KV         102         0.99327         0.99328         177           OKGE         TOLKOL AX 345KV         303         0.00007         (KGE         FPLWND2 34KV         102         0.99327         0.99328         177           OKGE         REDBUD 345KV         421.65         0         (KGE         FPLWND2 34KV         102         0.99327         0.99327         1.77           OKGE         SEMINOLE 138KV         242.081         0.0004         (KGE         FPLWND2 34KV         102         0.99327         0.99331         177           OKGE         SOUNE 138KV         24.9997         0.0013         (KGE         FPLWND2 34KV         102         0.99327         0.99333										
DKGE         MUSKOGEE 161KV         166         00001         DKGE         FPLWND2 34KV         102         0.99327         0.99327         17           OKGE         MUSTAKG 68KV         365.5         0.0006         DKGE         FPLWND2 34KV         102         0.99327         0.99327         177           OKGE         MUSTAKG 68KV         106         -0.0007         DKGE         FPLWND2 34KV         102         0.99327         0.99327         177           OKGE         OKGE MUSTAKG 68KV         336         0.00001         DKGE         FPLWND2 34KV         102         0.99327         0.99327         177           OKGE         REDBUD 345KV         9000         0         DKGE         FPLWND2 34KV         102         0.99327         0.99327         177           OKGE         SEMINOLE 345KV         421.65         0         DKGE         FPLWND2 34KV         102         0.99327         0.99321         177           OKGE         SEMINOLE 345KV         26.07         0.0003         DKGE         FPLWND2 34KV         102         0.99327         0.99331         177           OKGE         SOUTHATH ST 68KV         26.00004         DKGE         FPLWND2 34KV         102         0.99327         0.99331										
OKGE         MUSKOGEE 345KV         20         O (KGE         FPLWND2 34KV         102         0.99327         1.09327         1.0732         1.07         0.056E         FPLWND2 34KV         0.00 (KGE         FPLWND2 34KV         0.02         0.99327         0.99327         1.09327         1.09327         0.99327         1.09327										
OKGE         MUSTANG 138K/*         3865         0.0000         OKGE         FPLWND2 34K/*         102         0.99327         0.99333         17           OKGE         ONE OAK 345K/*         336         0.00001         OKGE         FPLWND2 34K/*         102         0.99327         0.99324         17           OKGE         REDBUD 346K/*         900         0.00001         OKGE         FPLWND2 34K/*         102         0.99327         0.99327         1.99327         0.99327         0.99327         0.99327         0.99327         0.99327         1.99327         0.99327         0.99327         0.99327         0.99327         0.99327         1.99327         0.99327         0.99327         1.99327         0.99327         1.99327         0.99327         1.99327         0.99327         1.99327         1.99327         1.99327         1.99327         1.99327         1.99327         1.99327         1.99327         1.99331         17         0.0056         FPLWND2 34K/*         102         0.99327         1.99333         17           OKGE         SCONER 138K/*         24.9997         0.001010 0KGE         FPLWND2 34K/*         102         0.99327         0.99333         17           OKGE         TOKGE 135K/*         24.9997         0.00101 0KGE										
DKGE         NUSTANG 69K/         106         -0.0007         DKGE         FPLWND2 34K/V         102         0.99327         -0.99326         17           OKGE         YONE OAK 345K/Y         900         0         KGE         FPLWND2 34K/V         102         0.99327         -0.99326         17           OKGE         TREDBUD 345K/Y         900         0         KGE         FPLWND2 34K/V         102         0.99327         -0.99327         17           OKGE         SEMINOLE 138K/V         242.091         -0.0000         KGE         FPLWND2 34K/V         102         0.99327         -0.99337         17           OKGE         SEMINOLE 138K/V         242.091         -0.0000         KGE         FPLWND2 34K/V         102         0.99327         -0.99337         17           OKGE         SONEF 138K/         24.9997         0.00018         KGE         FPLWND2 34K/V         102         0.99327         -0.99331         17           OKGE         SONEF 138K/         24.9997         0.00018         KGE         FPLWND2 34K/V         102         0.99327         -0.99306         17           OKGE         SONEF 138K/         24.9997         0.00018         KGE         FPLWND2 34K/V         102         0.99327<										
OKGE         'ONE OAK 345KV'         336         0.0001         OKGE         FPLWND2 34KV'         102         0.99327         0.99326         17           OKGE         'REDBUD 346KV'         102         0.99327         0.99327         17           OKGE         'REDBUD 346KV'         102         0.99327         0.99327         17           OKGE         SEMINOLE 138KV'         242.0981         0.0000         OKGE         'PLWND2 34KV'         102         0.99327         0.99337         17           OKGE         SEMINOLE 138KV         242.0981         0.0003         OKGE         'PLWND2 34KV'         102         0.99327         0.99331         17           OKGE         SOUTH 4TH ST 69KV'         24.9997         0.0012         OKGE         'PLWND2 34KV'         102         0.99327         0.99308         17           OKGE         SOUTH 4TH ST 69KV'         42.7         0.0012         OKGE         'PLWND2 34KV'         102         0.99327         0.99331         17           OKGE         TINKER 5G 138KV         63         0.0002         OKGE         'PLWND2 34KV'         102         0.99327         0.99331         17           OKGE         TINKER 5G 138KV         63         0.0002 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>										
OKGE         TREDBUD 345KV         900         0         OKGE         TPLWND2 34KV         102         0.99327         0.99327         17           OKGE         TREDBUD 345KV         242.0981         0.00004         OKGE         TPLWND2 34KV         102         0.99327         0.99327         17           OKGE         SEMINOLE 138KV         242.0981         0.00004         OKGE         TPLWND2 34KV         102         0.99327         0.99331         17           OKGE         SEMINOLE 345KV         24.99997         0.00019         OKGE         TPLWND2 34KV         102         0.99327         0.99338         17           OKGE         SOUTH 4TH ST 69KV         42.7         0.00119         OKGE         TPLWND2 34KV         102         0.99327         0.99338         17           OKGE         SOUTH 4TH ST 69KV         42.7         0.00119         OKGE         TPLWND2 34KV         102         0.99327         0.99331         17           OKGE         'CONTINENTAL EMPIRE 138KV         62.1         0.00014         OKGE         SELEPIND 234KV         120         0.44668         0.84669         20           OKGE         'HORSESHOE LAKE 138KV         380.5         0.00003         OKGE         SELEPING BEAR 34KV										
DKGE         TREDBUD 345KV         421.65         0         OKGE         FPLWND2 34KV         102         0.99327         0.99327         17           OKGE         SEMINOLE 348KV         242.0861         0.0004         OKGE         FPLWND2 34KV         102         0.99327         0.99331         17           OKGE         SEMINOLE 348KV         102         0.99327         0.99331         17           OKGE         SOUNER 138KV         24.99997         0.00010         OKGE         FPLWND2 34KV         102         0.99327         0.99331         17           OKGE         SOUTH 41H ST 69KV         4.27         0.00112         OKGE         FPLWND2 34KV         102         0.99327         0.99306         17           OKGE         TIMKER 5G 138KV         4.27         0.0012         OKGE         FPLWND2 34KV         102         0.99327         0.99301         17           OKGE         TIMKER 5G 138KV         63         0.00020         OKGE         FPLWND2 34KV         102         0.99327         0.99301         17           OKGE         TONTIMENTAL EMPIRE 138KV         63         0.00020         OKGE         SLEPTING BEAR 34KV         120         0.4466         0.84669         20           OKG										
OKGE         SEMINOLE 138KV'         242.0981         0.0004         OKGE         FPLWIND 34KV         102         0.99327         0.99331         17           OKGE         SCONER 138KV         24.9997         0.00019         OKGE         FPLWIND 234KV         102         0.99327         0.99331         17           OKGE         SOUTH 4TH ST 69KV         24.9997         0.00019         OKGE         FPLWIND 234KV         102         0.99327         0.99331         17           OKGE         SOUTH 4TH ST 69KV         42.7         0.00119         OKGE         FPLWIND 234KV         102         0.99327         0.99331         17           OKGE         TOKER SG 138KV         42.7         0.00121         OKGE         FPLWIND 234KV         102         0.99327         0.99331         17           OKGE         'CONTINENTAL EMPIRE 138KV'         63         0.00026         OKEE         SLEPING BEAR 34KV         120         0.44668         0.8466         20           OKGE         'HORSESHOE LAKE 138KV'         380         0.00030         OKGE         SLEPING BEAR 34KV         120         0.44668         0.84669         20           OKGE         HORSESHOE LAKE 138KV         91         0.00003         OKGE         SLEPING BEA										
OKGE         SEMINOLE 345KV         50.76         0.00030         OKGE         FPLWND2 34KV         102         0.99327         0.99331         17           OKGE         ISOONER 138KV         24.99997         0.0019         OKGE         FPLWND2 34KV         102         0.99327         0.99308         17           OKGE         ISOUTH 4TH ST 69KV         42.7         0.0019         OKGE         FPLWND2 34KV         102         0.99327         0.99301         17           OKGE         TDMKER 5G 138KV         62         0.00016         OKGE         FPLWND2 34KV         102         0.99327         0.99301         17           OKGE         TDMKER 5G 138KV         63         0.00026         OKGE         SLEEPING BEAR 34KV         120         0.84666         0.84666         20           OKGE         'HORSESHOE LAKE 138KV'         380         0.00003         OKGE         SLEEPING BEAR 34KV         120         0.84666         0.84669         20           OKGE         'HORSESHOE LAKE 138KV'         16         0.00003         OKGE         SLEEPING BEAR 34KV         120         0.84666         0.84669         20           OKGE         'HORSESHOE LAKE 138KV         16         0.00003         OKGE         SLEEPING BEAR 34KV<										
OKGE         SOONER 138KV         24.9997         0.0019         OKGE         FPLWND2 34KV         102         0.99327         -0.99308         17           OKGE         ISOUTH 4115 T 69KV         42.7         0.00121         OKGE         FPLWND2 34KV         102         0.99327         -0.99308         17           OKGE         TINKER 5G 138KV         62         0.00020         OKGE         FPLWND2 34KV         102         0.99327         -0.99301         17           OKGE         'CONTINENTAL EMPIRE 138KV'         63         0.00020         OKGE         SLEEPING BEAR 34KV         120         0.84666         -0.84669         20           OKGE         'HORSESHOE LAKE 138KV'         380.5         -0.00030         OKGE         'SLEEPING BEAR 34KV         120         0.84669         -0.84669         20           OKGE         'HORSESHOE LAKE 138KV'         380         -0.00030         OKGE         'SLEEPING BEAR 34KV         120         0.84669         -0.84669         20           OKGE         'HORSESHOE LAKE 69KV         16         -0.00030         OKGE         'SLEEPING BEAR 34KV         120         0.84668         -0.84669         20           OKGE         'MUSKOGEE 161KV'         166         -0.00007         OKGE										
OKGE         SOUTH 4TH ST 69KV         42.7         0.00121         OKGE         FPLWND2 34KV         102         0.99327         0.99206         17           OKGE         TINKER 65 138KV         62         0.00004         OKGE         FPLWND2 34KV         102         0.99327         0.99331         17           OKGE         CONTINENTAL EMPIRE 138KV         63         0.00003         OKGE         SLEEPING BEAR 34KV         120         0.84868         -0.84669         20           OKGE         HORSESHOE LAKE 138KV         380.5         -0.0003         OKGE         SLEEPING BEAR 34KV         120         0.84668         -0.84669         20           OKGE         HORSESHOE LAKE 138KV         380.5         -0.0003         OKGE         SLEEPING BEAR 34KV         120         0.84668         -0.84669         20           OKGE         HORSESHOE LAKE 138KV         91         -0.0003         OKGE         SLEEPING BEAR 34KV         120         0.84668         -0.84669         20           OKGE         MUSKOGEE 161KV         16         -0.00033         OKGE         SLEEPING BEAR 34KV         120         0.84685         20           OKGE         MUSKOGEE 161KV         166         -0.00001         OKGE         SLEEPING BEAR 34KV										
DKGE         TINKER 5G 138KV'         62         0.00026         OKGE         FPLWND2 34KV         102         0.93321         17           DKGE         ICONTINENTAL EMPIRE 138KV'         63         0.00026         DKGE         SLEEPING BEAR 34KV         120         0.8466         0.03846         0.04669         20           DKGE         'HORSESHOE LAKE 138KV'         380.5         -0.0003         OKGE         'SLEEPING BEAR 34KV         120         0.84666         -0.84669         20           OKGE         'HORSESHOE LAKE 138KV'         380         -0.0003         OKGE         'SLEEPING BEAR 34KV         120         0.84666         -0.84669         20           OKGE         'HORSESHOE LAKE 138KV'         91         -0.00003         OKGE         'SLEEPING BEAR 34KV         120         0.84669         -0.84689         20           OKGE         'HORSESHOE LAKE 69KV'         16         -0.00003         OKGE         'SLEEPING BEAR 34KV         120         0.84669         -0.84689         20           OKGE         'MUSCOGEE 161KV'         166         0.00001         OKGE         'SLEEPING BEAR 34KV         120         0.84665         20           OKGE         'MUSKOGEE 161KV'         166         0.00001         OKGE <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>										
OKGE         'CONTINENTAL EMPIRE 138KV'         63         0.00020         OKGE         'SLEEPING BEAR 34KV         120         0.8466         0.8466         20           OKGE         'HORSESHOE LAKE 138KV'         300.5         0.0003         OKGE         'SLEEPING BEAR 34KV'         120         0.84686         -0.84669         20           OKGE         'HORSESHOE LAKE 138KV'         380         -0.0003         OKGE         SLEEPING BEAR 34KV         120         0.84686         -0.84689         20           OKGE         'HORSESHOE LAKE 138KV'         91         -0.0003         OKGE         SLEEPING BEAR 34KV         120         0.84686         -0.84689         20           OKGE         'HORSESHOE LAKE 138KV'         16         -0.0003         OKGE         'SLEEPING BEAR 34KV         120         0.84668         -0.84669         20           OKGE         'MUSKOGEE 161KV'         166         -0.00001         OKGE         'SLEEPING BEAR 34KV         120         0.84665         20           OKGE         'MUSKOGEE 161KV'         31         0.00001         OKGE         'SLEEPING BEAR 34KV         120         0.84686         20           OKGE         'MUSKOGEE 161KV'         31         0.00001         OKGE         'SLEEPING BEAR 34KV<										
DKGE         HORSESHOE LAKE 138KV         330.5         0.00003         OKGE         'SLEEPING BEAR 34KV         120         0.94668         0.94668         20           OKGE         HORSESHOE LAKE 138KV         380.1         0.00003         OKGE         'SLEEPING BEAR 34KV         120         0.94668         0.94668         0.94668         0.94668         20           OKGE         HORSESHOE LAKE 138KV         91         0.00033         OKGE         'SLEEPING BEAR 34KV         120         0.84688         0.946689         20           OKGE         MICCALIN 138KV         121         0.94688         0.94689         20           OKGE         MICCALIN 138KV         120         0.94688         0.94689         20           OKGE         MICCALIN 138KV         120         0.94686         0.94689         20           OKGE         MICCALIN 138KV         120         0.94685         0.2803         20           OKGE         MUSKOGEE 161KV'         166         0.0001         OKGE         SLEPING BEAR 34KV         120         0.84686         0.84685         20           OKGE         MUSKOGEE 345KV         20         0         OKGE         SLEPING BEAR 34KV         120         0.84686         20										
DKGE         HORSESHOE LAKE 138KV         330         -0.0003         OKCE         'SLEEPING BEAR 34KV         120         0.94689         -0.94689         20           OKGE         'HORSESHOE LAKE 138KV'         91         -0.0003         OKGE         'SLEEPING BEAR 34KV'         120         0.94686         -0.94689         20           OKGE         'HORSESHOE LAKE 138KV'         16         -0.0003         OKGE         'SLEEPING BEAR 34KV'         120         0.84686         -0.84689         20           OKGE         'MCCLAIN 138KV'         42         -0.0001         OKGE         'SLEEPING BEAR 34KV'         120         0.84686         -0.84689         20           OKGE         'MUSKOGEE 161KV'         166         -0.0001         OKGE         'SLEEPING BEAR 34KV'         120         0.84686         -0.84685         20           OKGE         'MUSKOGEE 161KV'         31         0.0001         OKGE         'SLEEPING BEAR 34KV'         120         0.84686         -0.84685         20           OKGE         'MUSKOGE 161KV'         31         0.0001         OKGE         'SLEEPING BEAR 34KV'         120         0.84686         20           OKGE         'MUSKOGE 345KV'         20         0         OKGE         'SLEEPING BEAR 3										
OKGE         'HORSESHOE LAKE 138KV'         91         0.00030         OKCE         'SLEEPING BEAR 34KV'         120         0.94688         0.94689         20           OKGE         'HORSESHOE LAKE 68KV'         16         0.00003         OKCE         'SLEEPING BEAR 34KV'         120         0.94686         0.94689         20           OKGE         MCCLAIN 138KV         42         0.0003         OKCE         'SLEEPING BEAR 34KV         120         0.94686         0.94689         20           OKGE         MUSKOGEE 161KV'         166         0.0001         OKCE         'SLEEPING BEAR 34KV         120         0.84886         0.94685         20           OKGE         MUSKOGEE 161KV'         166         0.0001         OKCE         SLEEPING BEAR 34KV         120         0.84886         0.94685         20           OKGE         MUSKOGEE 161KV'         20         0         OKCE         SLEEPING BEAR 34KV         120         0.84686         0.94686         20           OKGE         MUSKANG 138KV         20         0         OKCE         SLEEPING BEAR 34KV         120         0.84686         20           OKGE         MUSKANG 138KV         365         0.00001         OKCE         SLEEPING BEAR 34KV         120										
OKGE         HORSESHOE LAKE 69KV         16         0.00003         OKGE         SLEEPING BEAR 34KV         120         0.84686         -0.84689         20           OKGE         MUCLAIN 138KV         42         0.00007         OKGE         SLEEPING BEAR 34KV         120         0.84686         -0.84689         20           OKGE         MUSKOGEE 161KV         166         0.00007         OKGE         SLEEPING BEAR 34KV         120         0.84686         -0.84685         20           OKGE         MUSKOGEE 161KV         166         0.00001         OKGE         SLEEPING BEAR 34KV         120         0.84686         -0.84685         20           OKGE         MUSKOGEE 161KV         31         0.00001         OKGE         SLEEPING BEAR 34KV         120         0.84686         -0.84685         20           OKGE         MUSKOGEE 345KV         20         0         OKGE         SLEEPING BEAR 34KV         120         0.84686         -0.84686         20           OKGE         MUSTANG 69KV         336         0.0007         OKGE         SLEEPING BEAR 34KV         120         0.84686         -0.84693         20           OKGE         ONE 0AK 345KV         336         0.0007         OKGE         SLEEPING BEAR 34KV										
OKGE         MCCLAIN 138KV         42         0.0007         OKGE         SLEEPING BEAR 34KV         120         0.94468         0.944693         20           OKGE         MUSKOGEE 161KV'         166         0.00011         OKGE         SLEEPING BEAR 34KV         120         0.94468         0.944695         20           OKGE         MUSKOGEE 161KV'         31         0.00011         OKGE         SLEEPING BEAR 34KV         120         0.84686         0.944695         20           OKGE         MUSKOGEE 161KV'         20         0         OKGE         SLEEPING BEAR 34KV         120         0.84686         0.9446										
OKGE         MUSKOGEE         1616         0.0001         OKGE         SLEEPING BEAR 34KV         120         0.84886         -0.84885         20           OKGE         MUSKOGEE 161KV'         31         0.0001         OKGE         SLEEPING BEAR 34KV         120         0.84886         -0.84885         20           OKGE         MUSKOGEE 345KV'         20         0         OKGE         SLEEPING BEAR 34KV         120         0.84886         -0.84685         20           OKGE         MUSKAGEE 345KV'         20         0         OKGE         SLEEPING BEAR 34KV         120         0.84686         -0.84685         20           OKGE         MUSTANG 68KV         386         0.00001         OKGE         SLEEPING BEAR 34KV         120         0.84686         -0.84682         20           OKGE         'MUSTANG 68KV         336         0.0001         OKGE         'SLEEPING BEAR 34KV         120         0.84686         -0.84693         20           OKGE         'ONE OAK 345KV         336         0.0001         OKGE         SLEEPING BEAR 34KV         120         0.84686         -0.84686         20           OKGE         'TREDBUD 345KV         42165         0         OKGE         SLEEPING BEAR 34KV         120										
OKGE         MUSKOGEE 161KV         31         0.0001         OKGE         'SLEEPING BEAR 34KV         120         0.44686         0.246685         20           OKGE         MUSKOGEE 345KV         20         0         OKGE         'SLEEPING BEAR 34KV         120         0.44668         0.246686         20           OKGE         MUSKOREE 345KV         20         0         OKGE         'SLEEPING BEAR 34KV         120         0.44686         0.246686         20           OKGE         MUSTANG 38KV         136         0.0007         OKGE         SLEEPING BEAR 34KV         120         0.44686         0.246693         20           OKGE         MUSTANG 38KV         36         0.0007         OKGE         SLEEPING BEAR 34KV         120         0.44686         0.246693         20           OKGE         'ONE DAK 345KV         36         0.0007         OKGE         SLEEPING BEAR 34KV         120         0.44686         0.24668         20           OKGE         'NEEBUD 345KV         421.65         0.0KGE         SLEEPING BEAR 34KV         120         0.44686         0.24668         20           OKGE         'SEEMINGLE 345KV'         20         0.0KGE         SLEEPING BEAR 34KV         120         0.44668         0.										
OKGE         MUSROGEE 345KV         20         0 OKGE         SLEEPING BEAR 34KV         120         0.84686         20           OKGE         MUSTANG 138KV         365.5         -0.0006         OKGE         SLEEPING BEAR 34KV         120         0.84686         -0.84686         20           OKGE         MUSTANG 68KV         106         -0.0007         OKGE         SLEEPING BEAR 34KV         120         0.84686         -0.84686         20           OKGE         'MUSTANG 69KV         106         -0.0007         OKGE         'SLEEPING BEAR 34KV         120         0.84686         -0.84686         20           OKGE         'ONE OAK 345KV         336         0.0001         OKGE         'SLEEPING BEAR 34KV         120         0.84686         -0.84686         20           OKGE         'TREDBUD 345KV         0.04668         0.04668         20         0         CKGE         'SLEEPING BEAR 34KV         120         0.84686         20           OKGE         'REDBUD 345KV         900         0         OKGE         'SLEEPING BEAR 34KV         120         0.84686         20           OKGE         'SLEPING BEAR 34KV         120         0.84686         -0.84686         20         0         0.84686         20										
OKGE         MUSTANG 138KV'         396.5         0.0000 OKGE         SLEEPING BEAR 34KV         120         0.8488         -0.84692         20           OKGE         MUSTANG 69KV         106         0.00071 OKGE         SLEEPING BEAR 34KV         120         0.84886         -0.84693         20           OKGE         'ONE OAK 345KV'         336         0.00071 OKGE         SLEEPING BEAR 34KV         120         0.84886         -0.84693         20           OKGE         'REDBUD 345KV         421.65         0.0KGE         'SLEEPING BEAR 34KV'         120         0.84886         -0.84696         20           OKGE         'REDBUD 345KV         421.65         0.0KGE         'SLEEPING BEAR 34KV'         120         0.84686         -0.84696         20           OKGE         'SLEPING BEAR 34KV'         120         0.84686         -0.84696         20           OKGE         'SLEPING BEAR 34KV'         120         0.84686         -0.84696         20           OKGE         'SELEPING BEAR 34KV'         120         0.84686         -0.84696         20           OKGE         'SELEPING BEAR 34KV         120         0.84686         -0.84696         20           OKGE         SELEPING BEAR 34KV         120         0.84686<										
OKGE         MUSTANG 69KV         106         -0.0007         OKGE         'SLEEPING BEAR 34KV         120         0.8466         -0.84693         20           OKGE         'ONE OAK 345KV'         336         0.0001         OKGE         'SLEEPING BEAR 34KV'         120         0.84666         -0.84693         20           OKGE         'REDBUD 345KV'         421.65         0         OKGE         'SLEEPING BEAR 34KV'         120         0.84686         -0.84686         20           OKGE         'REDBUD 345KV'         421.65         0         OKGE         'SLEEPING BEAR 34KV'         120         0.84686         -0.84686         20           OKGE         'REDBUD 345KV'         900         0         OKGE         'SLEEPING BEAR 34KV'         120         0.84686         -0.84686         20           OKGE         'SEMINOLE 138KV'         242.0981         -0.00004         OKGE         'SLEEPING BEAR 34KV'         120         0.84686         -0.84686         20           OKGE         'SEMINOLE 345KV'         507.6         -0.0003         OKGE         'SLEEPING BEAR 34KV'         120         0.84686         -0.84689         20           OKGE         'SLEPING BEAR 34KV'         120         0.84686         -0.84687 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>										
OKGE         ONE OAK 345KV         336         0.0001         OKGE         SLEEPING BEAR 34KV         120         0.44685         20           OKGE         TREDBUD 345KV         421.65         0         OKGE         SLEEPING BEAR 34KV         120         0.44686         -0.94685         20           OKGE         TREDBUD 345KV         900         0         OKGE         SLEEPING BEAR 34KV         120         0.84686         -0.94686         20           OKGE         TREDBUD 345KV         900         0         OKGE         SLEEPING BEAR 34KV         120         0.84686         -0.94686         20           OKGE         SEMINOLE 138KV         242.0981         -0.00040         KCE         SLEEPING BEAR 34KV         120         0.84686         -0.8469         20           OKGE         SEMINOLE 345KV         267.61         -0.0003         OKGE         SLEEPING BEAR 34KV         120         0.84686         -0.8469         20           OKGE         SOMEN 138KV         23607.61         -0.0003         OKGE         SLEEPING BEAR 34KV         120         0.84689         20           OKGE         'SOMEN 138KV         24.9997         0.00019         OKGE         SLEEPING BEAR 34KV         120         0.84689 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
OKGE         REDBUD 345KV         421.65         0         OKGE         'SLEEPING BEAR 34KV'         120         0.84686         -0.84686         20           OKGE         'REDBUD 345KV'         900         0         OKGE         'SLEEPING BEAR 34KV'         120         0.84686         -0.84686         20           OKGE         'SEMINOLE 138KV'         242.0881         -0.0004         OKGE         'SLEEPING BEAR 34KV'         120         0.84686         -0.84696         20           OKGE         'SEMINOLE 345KV'         242.0881         -0.0004         OKGE         'SLEEPING BEAR 34KV'         120         0.84686         -0.8469         20           OKGE         'SEMINOLE 345KV'         57.6         -0.00030         OKGE         'SLEEPING BEAR 34KV'         120         0.84686         -0.84691         20           OKGE         'SCONER 138KV'         24.9997         0.00019         OKGE         'SLEEPING BEAR 34KV'         120         0.84686         -0.84687         20           OKGE         'SOUTH 4TH ST 69KV'         24.70         0.00121         OKGE         'SLEEPING BEAR 34KV'         120         0.84686         -0.84657         20										
OKGE         TREBUD 345KV         900         0         OKGE         SLEEPING BEAR 34KV         120         0.44686         -0.94686         20           OKGE         SEMINOLE 138KV         242.0861         0.0004         KKE         SLEEPING BEAR 34KV         120         0.44686         -0.84686         20           OKGE         SEMINOLE 345KV         2004         0.0004         KKE         SLEEPING BEAR 34KV         120         0.84686         -0.84689         20           OKGE         SEMINOLE 345KV         507.6         -0.0003         OKGE         SLEEPING BEAR 34KV         120         0.84686         -0.84689         20           OKGE         'SOUTH 4T187         0.9470         24.9997         0.0019         OKGE         'SLEEPING BEAR 34KV         120         0.84686         -0.84667         20           OKGE         'SOUTH 4T187         69KV'         24.27         0.00121         OKGE         'SLEEPING BEAR 34KV'         120         0.84686         -0.84657         20										
OKGE         'SEMINOLE 138KV'         242.0981         -0.0004         OKGE         'SLEPING BEAR 34KV'         120         0.84686         -0.8469         20           OKGE         'SEMINOLE 345KV'         507.6         -0.0003         OKGE         'SLEPING BEAR 34KV'         120         0.84686         -0.8469         20           OKGE         'SCONRE 138KV'         24.99997         0.00019         OKGE         'SLEPING BEAR 34KV'         120         0.84686         -0.84699         20           OKGE         'SCONRE 138KV'         24.99997         0.00019         OKGE         'SLEPING BEAR 34KV'         120         0.84686         -0.84697         20           OKGE         'SOUTH 4TH ST 69KV'         42.7         0.00121         OKGE         'SLEPING BEAR 34KV'         120         0.84686         -0.84655         20										
OKGE         SEMINOLE 345KV'         507.6         0.00003         OKGE         'SLEEPING BEAR 34KV'         120         0.84668         -0.84669         20           OKGE         'SOONER 138KV'         24.99997         0.00019         OKGE         'SLEEPING BEAR 34KV'         120         0.84666         -0.84667         20           OKGE         'SOUTH 4TH ST 69KV'         42.7         0.00121         OKGE         'SLEEPING BEAR 34KV'         120         0.84666         -0.84665         20										
OKGE         'SOONER 138KV'         24.99997         0.00019         OKGE         'SLEEPING BEAR 34KV'         120         0.84686         -0.84667         20           OKGE         'SOUTH 4TH ST 69KV'         42.7         0.00121         OKGE         'SLEEPING BEAR 34KV'         120         0.84686         -0.84667         20										
OKGE         'SOUTH 4TH ST 69KV'         42.7         0.00121         OKGE         'SLEEPING BEAR 34KV'         120         0.84686         -0.84565         20										
UNDE LINKER 35 I JOAN 1 0 2 - 0.0409 AL 0 2 - 0.0409 AL 0 AL 0 0 - 0.0409 20 MAXIMUM Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.							120	0.04000	-0.0409	20

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

	FPL SWITCH - MOO	DRELAND 1	38KV CKT 1 W	/FEC				
2006 Summer Shoulder								
73 7.5				F				
								Redispatch
								Amount (MW)
'HORSESHOE LAKE 69KV'				'FPLWND2 34KV'	102	0.99327		
'MCCLAIN 138KV'				'FPLWND2 34KV'		0.99327		
'MUSKOGEE 161KV'				'FPLWND2 34KV'	102			
'MUSKOGEE 161KV'				'FPLWND2 34KV'				
'MUSKOGEE 345KV'	20			'FPLWND2 34KV'	102	0.99327	-0.99327	1
'MUSTANG 138KV'	365.5			'FPLWND2 34KV'	102	0.99327	-0.99333	3
'MUSTANG 69KV'	106	-0.00007	OKGE	'FPLWND2 34KV'	102	0.99327	-0.99334	í l
'ONE OAK 345KV'	293			'FPLWND2 34KV'	102	0.99327	-0.99326	ذ
'REDBUD 345KV'				'FPLWND2 34KV'	102	0.99327		
'REDBUD 345KV'	253	0	OKGE	'FPLWND2 34KV'	102	0.99327	-0.99327	1
'SEMINOLE 138KV'	34.47104	-0.00004	OKGE	'FPLWND2 34KV'	102	0.99327	-0.99331	í l
'SEMINOLE 345KV'	385,1439	-0.00003	OKGE	'FPLWND2 34KV'	102	0.99327	-0.9933	3
'SOONER 138KV'	24.99997	0.00019	OKGE	'FPLWND2 34KV'	102	0.99327	-0.99308	3
'SOUTH 4TH ST 69KV'	42.7	0.00121	OKGE	'FPLWND2 34KV'	102	0.99327	-0.99206	ذ
'TINKER 5G 138KV'	62	-0.00004	OKGE	'FPLWND2 34KV'	102	0.99327	-0.99331	í l
'CONTINENTAL EMPIRE 138KV'		0.00026	OKGE	SLEEPING BEAR 34KV	120	0.84686	-0.8466	ذ
'HORSESHOE LAKE 138KV'	91	-0.00003	OKGE	SLEEPING BEAR 34KV	120	0.84686	-0.84689	٩
'HORSESHOE LAKE 138KV'	380	-0.00003	OKGE	SLEEPING BEAR 34KV	120	0.84686	-0.84689	
'HORSESHOE LAKE 138KV'				SLEEPING BEAR 34KV	120	0.84686	-0.84689	3
'HORSESHOE LAKE 69KV'	16	-0.00003	OKGE	SLEEPING BEAR 34KV	120	0.84686	-0.84689	٩
'MCCLAIN 138KV'	42			SLEEPING BEAR 34KV	120	0.84686	-0.84693	š
'MUSKOGEE 161KV'				SLEEPING BEAR 34KV	120	0.84686		
					120	0.84686		
		0	OKGE		120	0.84686		
'MUSTANG 138KV'					120	0.84686		
		0.00001	OKGE					
TINKER 5G 138KV	42.7			SLEEPING BEAR 34KV	120	0.84686	-0.8469	
	FPL SWITCH - MOORELAND 138KV CKT 1           Form>To           VICI - WOODWARD 69KV CKT 1           55785559991560825609614206SH           6/106 - 10/106           2006 Summer Shoulder           Relief Amount           3         7.5           Source           'CONTINENTAL EMPIRE 138KV'           'HORSESHOE LAKE 138KV'           'HORSESHOE LAKE 138KV'           'HORSESHOE LAKE 138KV'           'HORSESHOE LAKE 69KV           'MUSKOGEE 161KV'           'MUSTANG 08KV'           'SEMINOLE 345KV'           'SEMINOLE 345KV'           'SONET 138KV'           'SONET 138KV'           'HORSESHOE LAKE 138KV'           'MUSKOGEE 1611KV'           'MUSKOGEE 161KV'	FPL SWITCH - MOORELAND 138KV CKT 1           Form>TO           VICI - WOODWARD B6KV CKT 1           55785559991560825609614206SH           6/106 - 10/106           2006 Summer Shoulder           Aggregate Relief           Relief Amount           3         7.5           Source         Maximum           Increment(MW)           'CONTINENTAL EMPIRE 138KV'         380           'HORSESHOE LAKE 138KV'         380           'HORSESHOE LAKE 138KV'         380.5           'HORSESHOE LAKE 138KV'         380.5           'HORSESHOE LAKE 138KV'         42           'MUSKOGEE 161KV'         16           MUSKOGEE 161KV'         106           'SEMINOLE 345KV'         24.7           'SEMINOLE 345KV'         24.9997           'SOUNTH ATH ST 60KY         42.7           'TONNENTAL EMPIRE 138KV'         34.47104           'SEMINOLE 345KV'         24.9997           'SOUNTH ATH ST 60KY         42.7           'TONNER 5.138KV'         34.9917 <td< td=""><td>FPL SWITCH - MOORELAND 138KV CKT 1           From-&gt;TO           From-&gt;TO           VICI - WOODWARD 66KV CKT 1           557855599915608256096142065H           6/106 - 10/106           2006 Summer Shoulder           Aggregate Relief           Relief Amount           3         7.5           Source         Increment(MW)           GSF           'CONTINENTAL EMPIRE 138KV'         380.5           HORSESHOE LAKE 138KV         91           HORSESHOE LAKE 138KV         42           HORSESHOE LAKE 138KV         16           HORSESHOE LAKE 138KV         16           MuSKOGEE 161KV         16           MUSKOGEE 161KV         16           MUSKOGEE 161KV         106           MUSKOGEE 161KV         20.0           MUSTANG 138KV         4210           1008UD 345KV         243           200001         106           REDBUD 345KV         243           20011         106           SEMINOLE 345KV         243           20011         106           SEMINOLE 345KV         243           20011         20.0001           SEMINOLE 345KV         243      &lt;</td><td>FPL SWITCH - MOORELAND 138KV CKT 1           From-&gt;TO           YOL: - WOODWARD GKV CKT 1           55785559991560825609614206SH           6/106 - 10/106           2006 Summer Shoulder           Aggregate Relief           Relief Amount           3         7.5           Source         Increment/MW)           Source         Increment/MW)           Source         Increment/MW)           SOURDE LAKE 138KV'         380           HORSESHOE LAKE 138KV'         380.6           HORSESHOE LAKE 138KV'         91           HORSESHOE LAKE 138KV'         16           HORSESHOE LAKE 138KV'         16           HORSESHOE LAKE 138KV'         16           MUSKOGEE 161KV'         166           MUSKOGEE 161KV'         166           MUSKOGEE 161KV'         166           MUSKOGEE 161KV'         106           MUSKOGEE 161KV'         106           MUSKOGEE 161KV'         20           OKGE         100KGE           TMUSKOGEE 161KV'         106           MUSKOGEE 161KV'         20.0           MUSKOGEE 161KV'         106           SOUNT 174H 174H         0.00000           SEMINOLE 345KV</td><td>FPL SWITCH - MOORELAND 138KV CKT 1           From-To           Form-To           Strasssogel Status           Strasssogel Status           Strasssogel Status           Surce           Increment(MW)           Source           Increment(MW)           Source           Increment(MW)           Source           Increment(MW)           Source           IOOSSESHOE LAKE 138KV           100525HOE LAKE 138KV           100501 GKGE           MUSKOGEE 161KV           1016           MUSKOGEE 161KV           1016           MUSKOGEE 161KV           1016           MUSKOGEE 161KV           1016           1000001 GKGE           FPLWND2 34KV           1000001 GKGE           1000001 GKGE           FPLWND2 34KV           1000001 GKGE           1000001 GKGE           FPLWND2 34KV</td><td>From-To VICI-WOODWARD 69KV CKT 1 5578556991560825608142065H 2005 Summer Shoulder       Aggregate Relief Anount       Aggregate Relief Anount         Relief Anount       Aggregate Relief Anount       Aggregate Relief Anount       Maximum       Maximum         Surze       Maximum       CSF       Sink Control Area       Sink       Maximum         Source       CSF       Sink Control Area       Sink       Maximum       Decrement(MW)         CONTINENTAL EMPIRE 138KV       280       0.00003       CKE       TPLWND2 34KV       102         HORSESHOE LAKE 138KV       280       0.00003       CKE       TPLWND2 34KV       102         HORSESHOE LAKE 138KV       200       0.00003       CKE       TPLWND2 34KV       102         HORSESHOE LAKE 618KV       16       0.00003       CKE       TPLWND2 34KV       102         MUSKOGEE 161KV       116       0.00001       CKE       TPLWND2 34KV       102         MUSKOGEE 161KV       116       0.00001       CKE       TPLWND2 34KV       102         MUSKOGEE 161KV       116       0.00001       CKE       TPLWND2 34KV       102         MUSKOGEE 161KV       10       0.00001       CKE       TPLWND2 34KV       102         MUSKOGE 161KV       106       &lt;</td><td>FPL, SWITCH - MOORELAND 138KV CKT 1         From-To         StrabsSop1000520001 L2005H         Bolice - 10/106         2005 Summer Shoulder         Relef Anount       Anount         Summer Shoulder         Bourge       Anount         Source       Bainnum         CONTINENTAL EMPIRE 138KV       63         OD0220 CKGE       FPL/NND2 34KV       102         HORSESHOE LAKE 138KV       93       -000030 CKGE       FPL/NND2 34KV       102       0.99327         HORSESHOE LAKE 138KV       93.0       -000030 CKGE       FPL/NND2 34KV       102       0.99327         HORSESHOE LAKE 138KV       93.0       -000030 CKGE       FPL/NND2 34KV       102       0.99327         HORSESHOE LAKE 138KV       10       -000020 CKGE       FPL/NND2 34KV       102       0.99327         MUSCAGE 181KV       168       -000001 CKGE       FPL/NND2 34KV       102       0.99327         MUSCAGE 181KV       168       -000001 CKGE       FPL/NND2 34KV       102       0.99327         MUSCAGE 181KV       168       -000001 CKGE       FPL/NND2 34KV       102       0.99327         MUSCAGE 181KV       168       -000001 CKGE       FPL/NND2 34KV       102       0.9932</td><td>PFL_SWTCH - MOORELAND 138KV CKT 1           Forma-To VICI - WOODWARD 69KV CKT 1           Strassogen Sociassogen 12005H 6r106 - 101762           Dold Summer Shoulder           Reider Ansunt         Angurgate Relief Angurgate Relief           Source         Maximum Increment(WW)         CSF         Area         Sirk         Maximum           Source         Maximum Increment(WW)         CSF         Area         Sirk         Maximum           OPRISE: NOE LAKE 138KV         36         0.0002         KGE         FPLWND2 34KV         0.001         0.0522         0.95927</td></td<>	FPL SWITCH - MOORELAND 138KV CKT 1           From->TO           From->TO           VICI - WOODWARD 66KV CKT 1           557855599915608256096142065H           6/106 - 10/106           2006 Summer Shoulder           Aggregate Relief           Relief Amount           3         7.5           Source         Increment(MW)           GSF           'CONTINENTAL EMPIRE 138KV'         380.5           HORSESHOE LAKE 138KV         91           HORSESHOE LAKE 138KV         42           HORSESHOE LAKE 138KV         16           HORSESHOE LAKE 138KV         16           MuSKOGEE 161KV         16           MUSKOGEE 161KV         16           MUSKOGEE 161KV         106           MUSKOGEE 161KV         20.0           MUSTANG 138KV         4210           1008UD 345KV         243           200001         106           REDBUD 345KV         243           20011         106           SEMINOLE 345KV         243           20011         106           SEMINOLE 345KV         243           20011         20.0001           SEMINOLE 345KV         243      <	FPL SWITCH - MOORELAND 138KV CKT 1           From->TO           YOL: - WOODWARD GKV CKT 1           55785559991560825609614206SH           6/106 - 10/106           2006 Summer Shoulder           Aggregate Relief           Relief Amount           3         7.5           Source         Increment/MW)           Source         Increment/MW)           Source         Increment/MW)           SOURDE LAKE 138KV'         380           HORSESHOE LAKE 138KV'         380.6           HORSESHOE LAKE 138KV'         91           HORSESHOE LAKE 138KV'         16           HORSESHOE LAKE 138KV'         16           HORSESHOE LAKE 138KV'         16           MUSKOGEE 161KV'         166           MUSKOGEE 161KV'         166           MUSKOGEE 161KV'         166           MUSKOGEE 161KV'         106           MUSKOGEE 161KV'         106           MUSKOGEE 161KV'         20           OKGE         100KGE           TMUSKOGEE 161KV'         106           MUSKOGEE 161KV'         20.0           MUSKOGEE 161KV'         106           SOUNT 174H 174H         0.00000           SEMINOLE 345KV	FPL SWITCH - MOORELAND 138KV CKT 1           From-To           Form-To           Strasssogel Status           Strasssogel Status           Strasssogel Status           Surce           Increment(MW)           Source           Increment(MW)           Source           Increment(MW)           Source           Increment(MW)           Source           IOOSSESHOE LAKE 138KV           100525HOE LAKE 138KV           100501 GKGE           MUSKOGEE 161KV           1016           MUSKOGEE 161KV           1016           MUSKOGEE 161KV           1016           MUSKOGEE 161KV           1016           1000001 GKGE           FPLWND2 34KV           1000001 GKGE           1000001 GKGE           FPLWND2 34KV           1000001 GKGE           1000001 GKGE           FPLWND2 34KV	From-To VICI-WOODWARD 69KV CKT 1 5578556991560825608142065H 2005 Summer Shoulder       Aggregate Relief Anount       Aggregate Relief Anount         Relief Anount       Aggregate Relief Anount       Aggregate Relief Anount       Maximum       Maximum         Surze       Maximum       CSF       Sink Control Area       Sink       Maximum         Source       CSF       Sink Control Area       Sink       Maximum       Decrement(MW)         CONTINENTAL EMPIRE 138KV       280       0.00003       CKE       TPLWND2 34KV       102         HORSESHOE LAKE 138KV       280       0.00003       CKE       TPLWND2 34KV       102         HORSESHOE LAKE 138KV       200       0.00003       CKE       TPLWND2 34KV       102         HORSESHOE LAKE 618KV       16       0.00003       CKE       TPLWND2 34KV       102         MUSKOGEE 161KV       116       0.00001       CKE       TPLWND2 34KV       102         MUSKOGEE 161KV       116       0.00001       CKE       TPLWND2 34KV       102         MUSKOGEE 161KV       116       0.00001       CKE       TPLWND2 34KV       102         MUSKOGEE 161KV       10       0.00001       CKE       TPLWND2 34KV       102         MUSKOGE 161KV       106       <	FPL, SWITCH - MOORELAND 138KV CKT 1         From-To         StrabsSop1000520001 L2005H         Bolice - 10/106         2005 Summer Shoulder         Relef Anount       Anount         Summer Shoulder         Bourge       Anount         Source       Bainnum         CONTINENTAL EMPIRE 138KV       63         OD0220 CKGE       FPL/NND2 34KV       102         HORSESHOE LAKE 138KV       93       -000030 CKGE       FPL/NND2 34KV       102       0.99327         HORSESHOE LAKE 138KV       93.0       -000030 CKGE       FPL/NND2 34KV       102       0.99327         HORSESHOE LAKE 138KV       93.0       -000030 CKGE       FPL/NND2 34KV       102       0.99327         HORSESHOE LAKE 138KV       10       -000020 CKGE       FPL/NND2 34KV       102       0.99327         MUSCAGE 181KV       168       -000001 CKGE       FPL/NND2 34KV       102       0.99327         MUSCAGE 181KV       168       -000001 CKGE       FPL/NND2 34KV       102       0.99327         MUSCAGE 181KV       168       -000001 CKGE       FPL/NND2 34KV       102       0.99327         MUSCAGE 181KV       168       -000001 CKGE       FPL/NND2 34KV       102       0.9932	PFL_SWTCH - MOORELAND 138KV CKT 1           Forma-To VICI - WOODWARD 69KV CKT 1           Strassogen Sociassogen 12005H 6r106 - 101762           Dold Summer Shoulder           Reider Ansunt         Angurgate Relief Angurgate Relief           Source         Maximum Increment(WW)         CSF         Area         Sirk         Maximum           Source         Maximum Increment(WW)         CSF         Area         Sirk         Maximum           OPRISE: NOE LAKE 138KV         36         0.0002         KGE         FPLWND2 34KV         0.001         0.0522         0.95927

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

Upgrade: Limiting Facility:	FPL SWITCH - MOORELAND 138KV CKT 1 OKGE AND FPL SWITCH - MOORELAND 138KV CKT 1	FPL SWITCH - MOO	DRELAND 1	38KV CKT 1 W	FEC				
Direction:	From->To								
Line Outage:	BASE CASE								
Flowgate:	55785559991BASECASE4106FA								
Date Redispatch Needed:	10/1/06 - 12/1/06								
Season Flowgate Identified:	2006 Fall Peak								
Reservation	Relief Amount	Aggregate Relief Amount							
1032973	3 14.2	14.2							
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
OKGE	'CONTINENTAL EMPIRE 138KV'	63			'FPLWND2 34KV'	102			
OKGE	'HORSESHOE LAKE 138KV'	380			'FPLWND2 34KV'	102			
OKGE	'HORSESHOE LAKE 138KV'	380.5			'FPLWND2 34KV'	102			
OKGE	'HORSESHOE LAKE 138KV'	91			'FPLWND2 34KV'	102			
OKGE	'HORSESHOE LAKE 69KV'	16			'FPLWND2 34KV'	102			
OKGE	'MCCLAIN 138KV'	42			'FPLWND2 34KV'	102			
OKGE	'MUSKOGEE 161KV'	31		OKGE	'FPLWND2 34KV'	102			15
OKGE	'MUSKOGEE 161KV'	166			'FPLWND2 34KV'	102			
OKGE	'MUSKOGEE 345KV'	20			'FPLWND2 34KV'	102			
OKGE	'MUSTANG 138KV'	365.5	0.00036		'FPLWND2 34KV'	102			
OKGE	'MUSTANG 69KV'	106	0.0004	OKGE	'FPLWND2 34KV'	102			
OKGE	'ONE OAK 345KV'	236	0.00012		'FPLWND2 34KV'	102			
OKGE	'REDBUD 345KV'	421.65	0.00014		'FPLWND2 34KV'	102			
OKGE	'REDBUD 345KV'	900	0.00014		'FPLWND2 34KV'	102			
OKGE	'SEMINOLE 138KV'	262.1518			'FPLWND2 34KV'	102			
OKGE	'SEMINOLE 345KV'	507.6	0.00018		'FPLWND2 34KV'	102			
OKGE	'SOONER 138KV'	24.99997	-0.00031		'FPLWND2 34KV'	102			
OKGE	'SOUTH 4TH ST 69KV'	42.7	-0.00162		'FPLWND2 34KV'	102			
OKGE	'TINKER 5G 138KV'	62			'FPLWND2 34KV'	102			
OKGE	'CONTINENTAL EMPIRE 138KV'	63	-0.00045		'SLEEPING BEAR 34KV'	120			
OKGE	'HORSESHOE LAKE 138KV'	380	0.00022		'SLEEPING BEAR 34KV'	120	0.81258		
OKGE	'HORSESHOE LAKE 138KV'	380.5			'SLEEPING BEAR 34KV'	120			
OKGE	'HORSESHOE LAKE 138KV'	91			'SLEEPING BEAR 34KV'	120			
OKGE	'HORSESHOE LAKE 69KV'	16			'SLEEPING BEAR 34KV'	120			
OKGE	'MCCLAIN 138KV'	42			'SLEEPING BEAR 34KV'	120			
OKGE	'MUSKOGEE 161KV'	166			'SLEEPING BEAR 34KV'	120			
OKGE	'MUSKOGEE 161KV'	31	0.00003		'SLEEPING BEAR 34KV'	120			
OKGE	'MUSKOGEE 345KV'	20			'SLEEPING BEAR 34KV'	120			
OKGE	'MUSTANG 138KV'	365.5	0.00036		'SLEEPING BEAR 34KV'	120			
OKGE	'MUSTANG 69KV'	106	0.0004		'SLEEPING BEAR 34KV'	120			
OKGE	'ONE OAK 345KV'	236	0.00012		'SLEEPING BEAR 34KV'	120			
OKGE	'REDBUD 345KV'	900	0.00014		'SLEEPING BEAR 34KV'	120			
OKGE	'REDBUD 345KV'	421.65	0.00014		'SLEEPING BEAR 34KV'	120			
OKGE	'SEMINOLE 138KV'	262.1518	0.00019		'SLEEPING BEAR 34KV'	120			
OKGE	'SEMINOLE 345KV'	507.6	0.00018		'SLEEPING BEAR 34KV'	120			
OKGE	'SOONER 138KV'	24.99997	-0.00031		'SLEEPING BEAR 34KV'	120			
OKGE	'SOUTH 4TH ST 69KV'	42.7	-0.00162		'SLEEPING BEAR 34KV'	120			
OKGE	'TINKER 5G 138KV'	62	0.00024	OKGE	SLEEPING BEAR 34KV	120	0.81258	-0.81234	17

 IUKKEL
 ITINKER 5G 138KV'
 62
 0.00024 [OKGE
 ISLEEPING BEAR 34K'

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

Upgrade:	FPL SWITCH - MOORELAND 138KV CKT 1 OKGE AND	FPL SWITCH - MO	ORELAND	138KV CKT 1 V	VFEC				
Limiting Facility:	FPL SWITCH - MOORELAND 138KV CKT 1								
Direction:	From->To								
Line Outage:	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFO	RMER CKT 1							
Flowgate:	55785559991WOODODWRD24211406SH								
Date Redispatch Needed:	6/1/06 - 10/1/06								
Season Flowgate Identified:	2006 Summer Shoulder								
, i i i i i i i i i i i i i i i i i i i		Aggregate Relief	7						
Reservation	Relief Amount	Amount							
103297	3 64.6		i						
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
OKGE	'CONTINENTAL EMPIRE 138KV'	63		OKGE	'FPLWND2 34KV'	102		2	
OKGE	'CONTINENTAL EMPIRE 138KV'	63		OKGE	'SLEEPING BEAR 34KV'	120		2	
OKGE	'HORSESHOE LAKE 138KV'	380.5		OKGE	'FPLWND2 34KV'	102			
OKGE	'HORSESHOE LAKE 138KV'	91		OKGE	'FPLWND2 34KV'	102		2	
OKGE	'HORSESHOE LAKE 138KV'	380		OKGE	'FPLWND2 34KV'	102		-	
OKGE	'HORSESHOE LAKE 138KV'	380		OKGE	'SLEEPING BEAR 34KV'	120		-	
OKGE	'HORSESHOE LAKE 138KV'	380.5		OKGE	'SLEEPING BEAR 34KV'	120		-	
OKGE	'HORSESHOE LAKE 138KV'	91		0 OKGE	'SLEEPING BEAR 34KV'	120	) 1	-	
OKGE	'MCCLAIN 138KV'	42		OKGE	'FPLWND2 34KV'	102	2 1		
OKGE	'MCCLAIN 138KV'	42		OKGE	'SLEEPING BEAR 34KV'	120	) 1	-	1 65
OKGE	'MUSKOGEE 161KV'	166	i (	0 OKGE	'FPLWND2 34KV'	102	2 1		1 65
OKGE	'MUSKOGEE 161KV'	31		0 OKGE	'FPLWND2 34KV'	102			
OKGE	'MUSKOGEE 161KV'	31	(	OKGE	'SLEEPING BEAR 34KV'	120	) 1	-	
OKGE	'MUSKOGEE 161KV'	166	i (	0 OKGE	'SLEEPING BEAR 34KV'	120	) 1		1 65
OKGE	'MUSTANG 138KV'	365.5		OKGE	'FPLWND2 34KV'	102	2 1	-	1 65
OKGE	'MUSTANG 138KV'	365.5	i (	OKGE	'SLEEPING BEAR 34KV'	120	) 1		1 65
OKGE	'MUSTANG 69KV'	106	i (	0 OKGE	'FPLWND2 34KV'	102	2 1		1 65
OKGE	'MUSTANG 69KV'	106		OKGE	'SLEEPING BEAR 34KV'	120	0 1	-	1 65
OKGE	'ONE OAK 345KV'	293		OKGE	'FPLWND2 34KV'	102	2 1	-	
OKGE	'ONE OAK 345KV'	293		0 OKGE	'SLEEPING BEAR 34KV'	120	) 1		1 65
OKGE	'REDBUD 345KV'	253		0 OKGE	'FPLWND2 34KV'	102	2 1		1 65
OKGE	'REDBUD 345KV'	421.65		OKGE	'FPLWND2 34KV'	102	2 1	-	
OKGE	'REDBUD 345KV'	253		OKGE	'SLEEPING BEAR 34KV'	120	) 1	-	1 65
OKGE	'REDBUD 345KV'	421.65	i (	0 OKGE	'SLEEPING BEAR 34KV'	120	) 1		1 65
OKGE	'SEMINOLE 138KV'	33.341		OKGE	'FPLWND2 34KV'	102	2 1	-	1 65
OKGE	'SEMINOLE 138KV'	33.341		OKGE	SLEEPING BEAR 34KV	120	1		
OKGE	SEMINOLE 345KV	389.3251		OKGE	'FPLWND2 34KV'	102		-	
OKGE	'SEMINOLE 345KV'	389.3251		OKGE	'SLEEPING BEAR 34KV'	120			
OKGE	'SOONER 138KV'	24,99997		OKGE	'FPLWND2 34KV'	102		-	
OKGE	'SOONER 138KV'	24,99997		OKGE	'SLEEPING BEAR 34KV'	120		-	
OKGE	'SOUTH 4TH ST 69KV'	42.7		OKGE	'FPLWND2 34KV'	102		-	
OKGE	'SOUTH 4TH ST 69KV'	42.7		OKGE	SLEEPING BEAR 34KV	120		-	
OKGE	'TINKER 5G 138KV'	62		OKGE	'FPLWND2 34KV'	102		-	
OKGE	TINKER 5G 138KV	62		OKGE	SLEEPING BEAR 34KV	120		-	

 IOKGE
 CINKER SG 138KV
 EAR 34KI

 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
 Redispatch Amount = Relief Amount / Factor

irection:	From->To								
ine Outage:	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFOR	RMER CKT 1							
lowgate:	55785559991WOODODWRD24214106FA								
Date Redispatch Needed:	10/1/06 - 12/1/06								
Season Flowgate Identified:	2006 Fall Peak								
-		Aggregate Relief							
Reservation	Relief Amount	Amount							
103297	3 66.0								
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
DKGE	'CONTINENTAL EMPIRE 138KV'	63		0 OKGE	'FPLWND2 34KV'	102	1	-	
DKGE	'CONTINENTAL EMPIRE 138KV'	63		0 OKGE	'SLEEPING BEAR 34KV'	120	1		
OKGE	'HORSESHOE LAKE 138KV'	380.5		0 OKGE	'FPLWND2 34KV'	102	1	2	
OKGE	'HORSESHOE LAKE 138KV'	380		0 OKGE	'FPLWND2 34KV'	102	1	2	
OKGE	'HORSESHOE LAKE 138KV'	91		0 OKGE	'FPLWND2 34KV'	102	1	-	
DKGE	'HORSESHOE LAKE 138KV'	380		0 OKGE	'SLEEPING BEAR 34KV'	120	1	-	
OKGE	'HORSESHOE LAKE 138KV'	91		0 OKGE	'SLEEPING BEAR 34KV'	120	1	2	
DKGE	'HORSESHOE LAKE 138KV'	380.5		0 OKGE	'SLEEPING BEAR 34KV'	120	1		
OKGE	'MCCLAIN 138KV'	42		0 OKGE	'FPLWND2 34KV'	102	1		
DKGE	'MCCLAIN 138KV'	42		0 OKGE	'SLEEPING BEAR 34KV'	120	1		
DKGE	'MUSKOGEE 161KV'	166		0 OKGE	'FPLWND2 34KV'	102	1		
OKGE	'MUSKOGEE 161KV'	31		0 OKGE	'FPLWND2 34KV'	102	1	-	
OKGE	'MUSKOGEE 161KV'	166		0 OKGE	'SLEEPING BEAR 34KV'	120	1		
OKGE	'MUSKOGEE 161KV'	31		0 OKGE	'SLEEPING BEAR 34KV'	120	1		
OKGE	'MUSTANG 138KV'	365.5		0 OKGE	'FPLWND2 34KV'	102	1		
OKGE	'MUSTANG 138KV'	365.5		0 OKGE	'SLEEPING BEAR 34KV'	120	1	-	
OKGE	'MUSTANG 69KV'	106		0 OKGE	'FPLWND2 34KV'	102	1		
OKGE	'MUSTANG 69KV'	106		0 OKGE	'SLEEPING BEAR 34KV'	120	1		
OKGE	'ONE OAK 345KV'	236		0 OKGE	'FPLWND2 34KV'	102	1		
OKGE	'ONE OAK 345KV'	236		0 OKGE	'SLEEPING BEAR 34KV'	120	1		
OKGE	'REDBUD 345KV'	421.65		0 OKGE	'FPLWND2 34KV'	102	1		
OKGE	'REDBUD 345KV'	900		0 OKGE	'FPLWND2 34KV'	102	1		
DKGE	'REDBUD 345KV'	421.65		0 OKGE	'SLEEPING BEAR 34KV'	120	1		
DKGE	'REDBUD 345KV'	900		0 OKGE	'SLEEPING BEAR 34KV'	120	1		
DKGE	'SEMINOLE 138KV'	262.1518		0 OKGE	'FPLWND2 34KV'	102	1		
OKGE	'SEMINOLE 138KV'	262.1518		0 OKGE	'SLEEPING BEAR 34KV'	120	1	-1	
OKGE	'SEMINOLE 345KV'	507.6		0 OKGE	'FPLWND2 34KV'	102	1	-1	
OKGE	'SEMINOLE 345KV'	507.6		0 OKGE	'SLEEPING BEAR 34KV'	120	1	-1	
DKGE	'SOONER 138KV'	24.99997		0 OKGE	'FPLWND2 34KV'	102	1	-	
DKGE	'SOONER 138KV'	24.99997		0 OKGE	'SLEEPING BEAR 34KV'	120	1	-1	
DKGE	'SOUTH 4TH ST 69KV'	42.7		0 OKGE	'FPLWND2 34KV'	102	1	-1	
DKGE	'SOUTH 4TH ST 69KV'	42.7		0 OKGE	'SLEEPING BEAR 34KV'	120	1	-	
KGE	'TINKER 5G 138KV'	62		0 OKGE	'FPLWND2 34KV'	102		-	
DKGE	TINKER 5G 138KV' ximum Increment were determine from the Souce and Sink (	62		0 OKGE	'SLEEPING BEAR 34KV'	120	1	-	1

Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed:	FPL SWITCH - MOORELAND 138KV CKT 1 OKGE AND I FPL SWITCH - MOORELAND 138KV CKT 1 From->To WOODWARD (WOODDWRD2) 138/69/13.2KV TRANSFOR 55785559991WOODODWRD24214206SP 6/106 - 10/106 2006 Summer Peak		DRELA	ND 138KV CKT 1 W	FEC				
Reservation		Amount							
1032973		63.2	1						
		Maximum		Sink Control		Maximum	1		Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
OKGE	'CONTINENTAL EMPIRE 138KV'	63		0 OKGE	'FPLWND2 34KV'	101,9968	1	-1	63
OKGE	'CONTINENTAL EMPIRE 138KV'	63		0 OKGE	SLEEPING BEAR 34KV	120	1	-1	63
OKGE	'HORSESHOE LAKE 138KV'	337.7		0 OKGE	'FPLWND2 34KV'	101.9968	1	-1	
OKGE	'HORSESHOE LAKE 138KV'	380.5		0 OKGE	'FPLWND2 34KV'	101.9968	1	-1	63
OKGE	'HORSESHOE LAKE 138KV'	337.7		0 OKGE	'SLEEPING BEAR 34KV'	120	1	-1	63
OKGE	'HORSESHOE LAKE 138KV'	380.5		0 OKGE	SLEEPING BEAR 34KV	120	1	-1	63
OKGE	'MCCLAIN 138KV'	42		0 OKGE	'FPLWND2 34KV'	101.9968	1	-1	63
OKGE	'MCCLAIN 138KV'	42		0 OKGE	'SLEEPING BEAR 34KV'	120	1	-1	63
OKGE	'MUSKOGEE 161KV'	31		0 OKGE	'FPLWND2 34KV'	101.9968	1	-1	63
OKGE	'MUSKOGEE 161KV'	166		0 OKGE	'FPLWND2 34KV'	101.9968	1	-1	63
OKGE	'MUSKOGEE 161KV'	166		0 OKGE	SLEEPING BEAR 34KV	120	1	-1	
OKGE	'MUSKOGEE 161KV'	31		0 OKGE	SLEEPING BEAR 34KV	120	1	-1	
OKGE	'MUSTANG 138KV'	142.3571		0 OKGE	'FPLWND2 34KV'	101.9968	1	-1	63
OKGE	'MUSTANG 138KV'	142.3571		0 OKGE	SLEEPING BEAR 34KV	120	1	-1	63
OKGE	'ONE OAK 345KV'	261		0 OKGE	'FPLWND2 34KV'	101.9968	1	-1	63
OKGE	'ONE OAK 345KV'	261		0 OKGE	'SLEEPING BEAR 34KV'	120	1	-1	
OKGE	'REDBUD 345KV'	253			'FPLWND2 34KV'	101.9968	1	-1	
OKGE	'REDBUD 345KV'	421.65			'FPLWND2 34KV'	101.9968	1	-1	
OKGE	'REDBUD 345KV'	421.65		0 OKGE	'SLEEPING BEAR 34KV'	120	1	-1	
OKGE	'REDBUD 345KV'	253		0 OKGE	'SLEEPING BEAR 34KV'	120	1	-1	
OKGE	'SEMINOLE 138KV'	21.81808		0 OKGE	'FPLWND2 34KV'	101.9968	1	-1	
OKGE	'SEMINOLE 138KV'	21.81808		0 OKGE	SLEEPING BEAR 34KV	120	1	-1	63
OKGE	'SOONER 138KV'	24.99997		0 OKGE	'FPLWND2 34KV'	101.9968	1	-1	
OKGE	'SOONER 138KV'	24.99997		0 OKGE	'SLEEPING BEAR 34KV'	120	1	-1	
OKGE	'SOUTH 4TH ST 69KV'	42.7			'FPLWND2 34KV'	101.9968	1	-1	
OKGE	'SOUTH 4TH ST 69KV'	42.7		0 OKGE	'SLEEPING BEAR 34KV'	120	1	-1	63

ISUUT 41H 31 BKV | 42.7| 0|OKGE |SLEEPING BEAR 34K
Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.
Factor = Source GSF - Sink GSF
Redispatch Amount = Relief Amount / Factor

Upgrade: FPL SWITCH - MOORELAND 138KV CKT 1 OKGE AND FPL SWITCH - MOORELAND 138KV CKT 1 WFEC Upgrade: Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed: Season Flowgate Identified: FPL SWITCH - MOORELAND 138KV CKT 1 From->To WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1 55785559991WOODODWRD24214206WF 12/1/06 - 4/1/07 2006 Winter Peak Aggregate Relief Relief Amount Reservation Amount 103297 13.6 13.6 Maximum Sink Control Sink C Area 0.00038 OKGE -0.00402 OKGE 0.00264 OKGE 0.00264 OKGE Maximum Redispatch Source AES 161KV' CONTINENTAL EMPIRE 138KV' HORSESHOE LAKE 138KV' HORSESHOE LAKE 138KV' HORSESHOE LAKE 63KV' HORSESHOE LAKE 69KV' MUSKOGEE 161KV' MUSKOGEE 161KV' Source Control Area OKGE OKGE Increment(MW) Sink Decrement(MW) GSF Factor Amount (MW) Sink FPLWND2 34KV 'FPLWND2 34KV -0.89923 -0.90363 -0.89697 -0.89697 
 102
 0.89961

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 0.89961

 102
 0.89961
 OKGE OKGE OKGE OKGE 380.5 -0.89697 -0.89697 -0.89709 -0.89547 0.00264 OKGI 0.00252 OKGI 0.00414 OKGI 102 0.8996 102 0.8996 102 0.8996 380 OKG 166 0.00045 OKG FPLWND2 34K 102 0.8996 -0.89916 KG **NUSKOGEE 161k** 0.00045 OK PLWND2 34 102 0.8996 -0.8991 OKGE 'MUSKOGEE 345KV 102 0.8996 -0.89904 20 0.00057 OKG 'FPLWND2 34K\ OKGE 'MUSTANG 138KV 365.5 0.00425 OKG FPLWND2 34KV 102 0.89961 -0.89536 OKGE OKGE OKGE OKGE OKGE OKGE 0.00425 OKGE 0.00459 OKGE 0.00166 OKGE 0.00175 OKGE 0.00175 OKGE 0.00199 OKGE 0.00206 OKGE -0.00271 OKGE FPLWND2 34KV 
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 -0.89536 -0.89502 -0.89795 -0.89786 -0.89786 -0.89762 -0.89755 -0.90232 'MUSTANG 69KV' 'ONE OAK 345KV' 106 336 (ONE OAK 345KV REDBUD 345KV REDBUD 345KV SEMINOLE 138KV SOMRE 138KV SOONER 138KV SOONER 138KV SOUTH ATH ST 69KV TINKER SG 138KV CONTINENTAL EMPIRE 138KV 336 900 421.65 398.3212 558.5136 24.99997 'FPLWND2 34KV' 'FPLWND2 34KV' 'SLEEPING BEAR 34KV' OKGE 42.7 -0.0164 OKG 0.00279 OKG 102 0.89961 -0.91601 OKG 62 102 0.89961 120 0.73481 -0.89682 OKGE 63 -0.00402 OKG -0.73883 -0.00402 OKGE -0.0164 OKGE 0.0038 OKGE 0.00264 OKGE 0.00264 OKGE 0.00264 OKGE 0.00262 OKGE 0.00252 OKGE 0.00414 OKGE 0.00057 OKGE 0.00425 OKGE OKGE SOUTH 4TH ST 69KV 42.7 SLEEPING BEAR 34KV 120 0.73481 -0.75121 18 SOUTH ATH ST 69KV AES 161KV HORSESHOE LAKE 138KV HORSESHOE LAKE 138KV HORSESHOE LAKE 138KV HORSESHOE LAKE 69KV MUSKOGEE 345KV MUSTANG 138KV MUSTANG 69KV TONF OAK 345KV 
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 -0.75121 -0.73443 -0.73217 -0.73217 -0.73217 -0.73229 -0.73067 -0.73424 -0.73056 -0.73022 0.73022 SLEEPING BEAR 34KV 'SLEEPING BEAR 34KV OKGE OKGE OKGE OKGE OKGE OKGE 10 91 19 19 19 19 19 19 19 19 380.5 380.3 380 16 42 20 365.5 SLEEPING BEAR 34KV SLEEPING BEAR 34KV 0.00425 OKG KG 0.00459 OKG SLEEPING BEAR 34KV 19 OKGE ONE OAK 345KV 336 0.00166 OKG -0.73315 OKGE OKGE OKGE OKGE OKGE OKGE 
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 -0.73315 -0.73306 -0.73306 -0.73282 -0.73275 -0.73752 -0.73202 0.00175 OKG 0.00175 OKG 0.00175 OKG 0.00199 OKG 'REDBUD 345KV 'REDBUD 345KV 421.65 SLEEPING BEAR 34KV 19 19 19 19 19 19 19 900 398.3212 'SEMINOLE 138KV' 'SEMINOLE 138KV' 'SEMINOLE 345KV' 'SOONER 138KV' 'TINKER 5G 138KV' SLEEPING BEAR 34KV 
 390.0212
 0.00199 [OKGE

 558.5136
 0.00296 [OKGE

 [OKGE
 138KV
 24.99997
 -0.00271 [OKGE

 [OKGE
 TINKER 5G 138KV
 62
 0.00278 [OKGE

 Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where Factor = Source GSF - Sink GSF
 Redispatch Amount / Factor
 SLEEPING BEAR 34KV SLEEPING BEAR 34KV SLEEPING BEAR 34KV isLEEPING BEAR 34KV imiting facility was identified.

miting Facility: irection:	FPL SWITCH - MOORELAND 138KV CKT 1 From->To								
ne Outage:	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFOR	RMER CKT 1							
owgate:	55785559991WOODODWRD24214207AP								
ate Redispatch Needed:	Starting 2007 4/1 - 6/1 Until EOC of Upgrade								
eason Flowgate Identified:	2007 April Minimum								
×		Aggregate Relief							
eservation	Relief Amount	Amount							
103297	3 27.2	27.2							
		Maximum		Sink Control		Maximum			Redispatch
ource Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW
KGE	'AES 161KV'	160	0.00038	OKGE	'FPLWND2 34KV'	102	0.89961	-0.89923	
KGE	'HORSESHOE LAKE 138KV'	380.5	0.00258	OKGE	'FPLWND2 34KV'	102	0.89961	-0.89703	
KGE	'HORSESHOE LAKE 138KV'	91	0.00258		'FPLWND2 34KV'	102	0.89961	-0.89703	
KGE	'HORSESHOE LAKE 138KV'	380	0.00258	OKGE	'FPLWND2 34KV'	102	0.89961	-0.89703	
KGE	'HORSESHOE LAKE 69KV'	16			'FPLWND2 34KV'	102	0.89961	-0.89713	
KGE	'MCCLAIN 138KV'	520	0.00416		'FPLWND2 34KV'	102	0.89961	-0.89545	
KGE	'MUSKOGEE 161KV'	31	0.00045		'FPLWND2 34KV'	102	0.89961	-0.89916	
KGE	'MUSKOGEE 161KV'	166	0.00045		'FPLWND2 34KV'	102	0.89961	-0.89916	
KGE	'MUSKOGEE 345KV'	714.4385	0.00057		'FPLWND2 34KV'	102	0.89961	-0.89904	
KGE	'MUSTANG 138KV'	365.5	0.00427		'FPLWND2 34KV'	102	0.89961	-0.89534	
KGE	'MUSTANG 69KV'	106	0.00462		'FPLWND2 34KV'	102	0.89961	-0.89499	
KGE	'ONE OAK 345KV'	336	0.00167		'FPLWND2 34KV'	102	0.89961	-0.89794	
KGE	'REDBUD 345KV'	421.65	0.00175		'FPLWND2 34KV'	102	0.89961	-0.89786	
KGE	'REDBUD 345KV'	900	0.00175		'FPLWND2 34KV'	102	0.89961	-0.89786	
KGE	'SEMINOLE 138KV'	510.9571	0.00199		'FPLWND2 34KV'	102	0.89961	-0.89762	
KGE	'SEMINOLE 345KV'	996.6	0.00207		'FPLWND2 34KV'	102	0.89961	-0.89754	
KGE	'SMITH COGEN 138KV'	110	0.00405		'FPLWND2 34KV'	102	0.89961	-0.89556	
KGE	'SOONER 138KV'	24.99997	-0.00271		'FPLWND2 34KV'	102	0.89961	-0.90232	
KGE	'SOUTH 4TH ST 69KV'	42.7	-0.0164		'FPLWND2 34KV'	102	0.89961	-0.91601	
KGE	'TINKER 5G 138KV'	62	0.0028		'FPLWND2 34KV'	102	0.89961	-0.89681	
KGE	'SOUTH 4TH ST 69KV'	42.7	-0.0164	OKGE	'SLEEPING BEAR 34KV'	120	0.73481	-0.75121	
KGE	'AES 161KV'	160	0.00038		'SLEEPING BEAR 34KV'	120	0.73481	-0.73443	
KGE	'HORSESHOE LAKE 138KV'	380	0.00258		'SLEEPING BEAR 34KV'	120	0.73481	-0.73223	
KGE	'HORSESHOE LAKE 138KV'	380.5	0.00258		'SLEEPING BEAR 34KV'	120	0.73481	-0.73223	
KGE	'HORSESHOE LAKE 138KV'	91	0.00258		'SLEEPING BEAR 34KV'	120	0.73481	-0.73223	
KGE	'HORSESHOE LAKE 69KV'	16	0.00248		'SLEEPING BEAR 34KV'	120	0.73481	-0.73233	
KGE	'MCCLAIN 138KV'	520	0.00416		'SLEEPING BEAR 34KV'	120	0.73481	-0.73065	
KGE	'MUSKOGEE 161KV'	166	0.00045		'SLEEPING BEAR 34KV'	120	0.73481	-0.73436	
KGE	'MUSKOGEE 161KV'	31	0.00045		'SLEEPING BEAR 34KV'	120	0.73481	-0.73436	
KGE	'MUSKOGEE 345KV'	714.4385	0.00057		'SLEEPING BEAR 34KV'	120	0.73481	-0.73424	
KGE	'MUSTANG 138KV'	365.5	0.00427		'SLEEPING BEAR 34KV'	120	0.73481	-0.73054	
KGE	'MUSTANG 69KV'	106	0.00462		'SLEEPING BEAR 34KV'	120	0.73481	-0.73019	
KGE	'ONE OAK 345KV'	336	0.00167		'SLEEPING BEAR 34KV'	120	0.73481	-0.73314	
KGE	'REDBUD 345KV'	900	0.00175		'SLEEPING BEAR 34KV'	120	0.73481	-0.73306	
KGE	'REDBUD 345KV'	421.65	0.00175		'SLEEPING BEAR 34KV'	120	0.73481	-0.73306	
KGE	'SEMINOLE 138KV'	510.9571	0.00199		'SLEEPING BEAR 34KV'	120	0.73481	-0.73282	
KGE	'SEMINOLE 345KV'	996.6	0.00207		'SLEEPING BEAR 34KV'	120	0.73481	-0.73274	
KGE	'SMITH COGEN 138KV'	110	0.00405		'SLEEPING BEAR 34KV'	120	0.73481	-0.73076	
KGE	'SOONER 138KV'	24.99997	-0.00271		'SLEEPING BEAR 34KV'	120	0.73481	-0.73752	
KGE	'TINKER 5G 138KV'	62	0.0028	OKGE	'SLEEPING BEAR 34KV'	120	0.73481	-0.73201	

irection:	From->To								
ine Outage:	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFO	RMER CKT 1							
lowgate:	55785559991WOODODWRD24214207FA								
Date Redispatch Needed:	Starting 2007 10/1 - 12/1 Until EOC of Upgrade								
Season Flowgate Identified:	2007 Fall Peak								
		Aggregate Relief							
Reservation	Relief Amount	Amount							
103297	73 27.								
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink		GSF	Factor	Amount (MW)
KGE	'CONTINENTAL EMPIRE 138KV'	64		OKGE	'FPLWND2 34KV'	102		-0.90358	
KGE	'HORSESHOE LAKE 138KV'	380.5	0.00256		'FPLWND2 34KV'	102		-0.89702	
KGE	'HORSESHOE LAKE 138KV'	91	0.00256		'FPLWND2 34KV'	102		-0.89702	
DKGE	'HORSESHOE LAKE 138KV'	380	0.00256		'FPLWND2 34KV'	102		-0.89702	
DKGE	'HORSESHOE LAKE 69KV'	16	0.00246		'FPLWND2 34KV'	102		-0.89712	L
)KGE	'MUSKOGEE 161KV'	31	0.00044		'FPLWND2 34KV'	102		-0.89914	ł
OKGE	'MUSKOGEE 161KV'	166	0.00044		'FPLWND2 34KV'	102		-0.89914	
KGE	'MUSKOGEE 345KV'	20	0.00053		'FPLWND2 34KV'	102		-0.89905	
KGE	'MUSTANG 138KV'	365.5	0.00419		'FPLWND2 34KV'	102		-0.89539	
KGE	'MUSTANG 69KV'	106	0.00455		'FPLWND2 34KV'	102		-0.89503	
KGE	ONE OAK 345KV	323	0.00169		'FPLWND2 34KV'	102		-0.89789	
KGE	'REDBUD 345KV'	421.65	0.00174		'FPLWND2 34KV'	102		-0.89784	
KGE	'REDBUD 345KV'	900	0.00174		'FPLWND2 34KV'	102		-0.89784	
DKGE	SEMINOLE 138KV	33.10504	0.00197		'FPLWND2 34KV'	102		-0.89761	
DKGE	'SEMINOLE 345KV'	507.6	0.00204		'FPLWND2 34KV'	102		-0.89754	
DKGE DKGE	'SMITH COGEN 138KV'	110 24.99997	0.00399		'FPLWND2 34KV' 'FPLWND2 34KV'	102		-0.89559	
DKGE	'SOONER 138KV' 'SOUTH 4TH ST 69KV'	24.99997 42.7		OKGE	FPLWND2 34KV FPLWND2 34KV	102		-0.90227	
		42.7	-0.0164		FPLWND2 34KV FPLWND2 34KV	102		-0.91598	
DKGE DKGE	'TINKER 5G 138KV' 'SOUTH 4TH ST 69KV'	42.7		OKGE	SLEEPING BEAR 34KV	102		-0.89681	
DKGE	CONTINENTAL EMPIRE 138KV	42.7		OKGE	SLEEPING BEAR 34KV	120	0.73478	-0.73878	
DKGE	HORSESHOE LAKE 138KV	91	0.00256		SLEEPING BEAR 34KV	120		-0.73222	
DKGE	HORSESHOE LAKE 138KV	380	0.00256		SLEEPING BEAR 34KV	120		-0.73222	
DKGE	HORSESHOE LAKE 138KV	380.5	0.00256		SLEEPING BEAR 34KV	120		-0.73222	
DKGE	'HORSESHOE LAKE 69KV'	16	0.00230		SLEEPING BEAR 34KV	120	0.73478	-0.73232	
DKGE	'MUSKOGEE 161KV'	166	0.000240		SLEEPING BEAR 34KV	120		-0.73434	
DKGE	'MUSKOGEE 161KV'	31	0.00044		SLEEPING BEAR 34KV	120		-0.73434	
DKGE	'MUSKOGEE 345KV'	20	0.00044		SLEEPING BEAR 34KV	120		-0.73434	
DKGE	'MUSTANG 138KV'	365.5	0.00033		SLEEPING BEAR 34KV	120	0.73478	-0.73059	
DKGE	MUSTANG 156KV	106	0.00419		SLEEPING BEAR 34KV	120	0.73478	-0.73059	<u> </u>
DKGE	ONE OAK 345KV	323	0.00455		SLEEPING BEAR 34KV	120		-0.733023	
DKGE	'REDBUD 345KV'	421.65	0.00103		SLEEPING BEAR 34KV	120		-0.73309	
KGE	'REDBUD 345KV'	421.03	0.00174		SLEEPING BEAR 34KV	120		-0.73304	
KGE	SEMINOLE 138KV	33.10504	0.00174		SLEEPING BEAR 34KV	120		-0.73281	
KGE	SEMINOLE 345KV	507.6	0.00204		SLEEPING BEAR 34KV	120		-0.73274	
KGE	SMITH COGEN 138KV	110	0.00204		SLEEPING BEAR 34KV	120		-0.73274	
KGE	SOONER 138KV	24,99997	-0.00269		SLEEPING BEAR 34KV	120	0.73478	-0.73747	
DKGE	TINKER 5G 138KV	24.99997	0.00203		SLEEPING BEAR 34KV	120		-0.73201	
	aximum Increment were determine from the Souce and Sink					120	0.13470	-0.73201	1

Upgrade: Limiting Facility:	FPL SWITCH - MOORELAND 138KV CKT 1 OKGE AND FPL SWITCH - MOORELAND 138KV CKT 1	FPL SWITCH - MOC	RELAND 1	38KV CKT 1 W	FEC				
Direction:	From->To								
Line Outage:	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFOR	RMER CKT 1							
Flowgate:	55785559991WOODODWRD24214207G								
Date Redispatch Needed:	Starting 2007 4/1 - 6/1 Until EOC of Upgrade								
Season Flowgate Identified:	2007 Spring Peak								
ocason nowgate identified.	2007 Opining I Calk	Aggregate Relief							
Reservation	Relief Amount	Amount							
1032973									
1002010	20.0	Maximum		Sink Control		Maximum		1	Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
OKGE	SOUTH 4TH ST 69KV	42.7	-0.0164		'FPLWND2 34KV'	101.9988	0.89961	-0.91601	
OKGE	AES 161KV	40	0.00038		'FPLWND2 34KV'	101.9988	0.89961	-0.89923	
OKGE	'HORSESHOE LAKE 138KV'	380.5	0.00259		'FPLWND2 34KV'	101.9988	0.89961	-0.89702	
OKGE	'HORSESHOE LAKE 138KV'	380	0.00259		'FPLWND2 34KV'	101.9988	0.89961	-0.89702	
OKGE	'HORSESHOE LAKE 138KV'	91	0.00259		'FPLWND2 34KV'	101.9988	0.89961	-0.89702	
OKGE	HORSESHOE LAKE 69KV	16	0.00249		'FPLWND2 34KV'	101.9988	0.89961	-0.89712	
OKGE	'MCCLAIN 138KV'	42	0.00394		'FPLWND2 34KV'	101.9988	0.89961	-0.89567	
OKGE	'MUSKOGEE 161KV'	166	0.00045		'FPLWND2 34KV'	101.9988	0.89961	-0.89916	
OKGE	'MUSKOGEE 161KV'	31	0.00045		'FPLWND2 34KV'	101.9988	0.89961	-0.89916	
OKGE	'MUSKOGEE 345KV'	20	0.00057		'FPLWND2 34KV'	101.9988	0.89961	-0.89904	
OKGE	'MUSTANG 138KV'	365.5	0.00429		'FPLWND2 34KV'	101.9988	0.89961	-0.89532	
OKGE	'MUSTANG 69KV'	106	0.00464		'FPLWND2 34KV'	101.9988	0.89961	-0.89497	
OKGE	ONE OAK 345KV	319	0.00166		'FPLWND2 34KV'	101.9988	0.89961	-0.89795	
OKGE	'REDBUD 345KV'	421.65	0.00175		'FPLWND2 34KV'	101.9988	0.89961	-0.89786	
OKGE	'REDBUD 345KV'	900	0.00175		'FPLWND2 34KV'	101.9988	0.89961	-0.89786	
OKGE	SEMINOLE 138KV	406.2194	0.00199		'FPLWND2 34KV'	101.9988	0.89961	-0.89762	
OKGE	SEMINOLE 345KV	574.1776	0.00207	OKGE	'FPLWND2 34KV'	101.9988	0.89961	-0.89754	
OKGE	SOONER 138KV	24,99997	-0.00271		'FPLWND2 34KV'	101.9988	0.89961	-0.90232	
OKGE	TINKER 5G 138KV	62	0.00281		'FPLWND2 34KV'	101.9988	0.89961	-0.8968	
OKGE	'SOUTH 4TH ST 69KV'	42.7	-0.0164	OKGE	'SLEEPING BEAR 34KV'	120	0.73481	-0.75121	
OKGE	AES 161KV	40	0.00038		'SLEEPING BEAR 34KV'	120	0.73481	-0.73443	36
OKGE	'HORSESHOE LAKE 138KV'	91	0.00259		'SLEEPING BEAR 34KV'	120	0.73481	-0.73222	
OKGE	'HORSESHOE LAKE 138KV'	380.5	0.00259		'SLEEPING BEAR 34KV'	120	0.73481	-0.73222	
OKGE	'HORSESHOE LAKE 138KV'	380	0.00259		'SLEEPING BEAR 34KV'	120	0.73481	-0.73222	
OKGE	'HORSESHOE LAKE 69KV'	16	0.00249		'SLEEPING BEAR 34KV'	120	0.73481	-0.73232	
OKGE	'MCCLAIN 138KV'	42	0.00394		'SLEEPING BEAR 34KV'	120	0.73481	-0.73087	
OKGE	'MUSKOGEE 161KV'	31	0.00045		'SLEEPING BEAR 34KV'	120	0.73481	-0.73436	
OKGE	'MUSKOGEE 161KV'	166	0.00045		'SLEEPING BEAR 34KV'	120	0.73481	-0.73436	36
OKGE	'MUSKOGEE 345KV'	20	0.00057		'SLEEPING BEAR 34KV'	120	0.73481	-0.73424	
OKGE	'MUSTANG 138KV'	365.5	0.00429		SLEEPING BEAR 34KV	120	0.73481	-0.73052	
OKGE	'MUSTANG 69KV'	106	0.00464	OKGE	'SLEEPING BEAR 34KV'	120	0.73481	-0.73017	
OKGE	'ONE OAK 345KV'	319	0.00166		'SLEEPING BEAR 34KV'	120	0.73481	-0.73315	
OKGE	'REDBUD 345KV'	421.65	0.00175		'SLEEPING BEAR 34KV'	120	0.73481	-0.73306	
OKGE	'REDBUD 345KV'	900	0.00175		'SLEEPING BEAR 34KV'	120	0.73481	-0.73306	
OKGE	'SEMINOLE 138KV'	406.2194	0.00199	OKGE	'SLEEPING BEAR 34KV'	120	0.73481	-0.73282	
OKGE	SEMINOLE 345KV	574,1776	0.00207	OKGE	'SLEEPING BEAR 34KV'	120	0.73481	-0.73274	
OKGE	SOONER 138KV	24.99997	-0.00271		'SLEEPING BEAR 34KV'	120	0.73481	-0.73752	
OKGE	TINKER 5G 138KV	62	0.00281		SLEEPING BEAR 34KV	120	0.73481	-0.732	
	kimum Increment were determine from the Souce and Sink	Departing Boints in th							,

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

Upgrade:	FPL SWITCH - MOORELAND 138KV CKT 1 OKGE AND	FPL SWITCH - MOC	RELAND 1	38KV CKT 1 W	FEC				
Limiting Facility:	FPL SWITCH - MOORELAND 138KV CKT 1								
Direction:	From->To								
Line Outage:	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFOR	RMER CKT 1							
Flowgate:	55785559991WOODODWRD24214207SH								
Date Redispatch Needed:	6/1 - 10/1 Until EOC of Upgrade								
Season Flowgate Identified:	2007 Summer Shoulder								
		Aggregate Relief							
Reservation	Relief Amount	Amount							
1032973	3 13.2					1		1	1
	-	Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink		GSF	Factor	Amount (MW)
OKGE	'SOUTH 4TH ST 69KV'	42.7	-0.0164		'FPLWND2 34KV'	102		-0.91598	
OKGE	'HORSESHOE LAKE 138KV'	380	0.00256		'FPLWND2 34KV'	102	0.89958	-0.89702	
OKGE	'HORSESHOE LAKE 138KV'	380.5	0.00256		'FPLWND2 34KV'	102	0.89958	-0.89702	
OKGE	'MCCLAIN 138KV'	42	0.00387		'FPLWND2 34KV'	102	0.89958	-0.89571	
OKGE	'MUSKOGEE 161KV'	31	0.00044		'FPLWND2 34KV'	102	0.89958	-0.89914	
OKGE	'MUSKOGEE 161KV'	166	0.00044		'FPLWND2 34KV'	102	0.89958	-0.89914	
OKGE	'MUSKOGEE 345KV'	20	0.00053		'FPLWND2 34KV'	102	0.89958	-0.89905	
OKGE	'MUSTANG 138KV'	365.5	0.00419		'FPLWND2 34KV'	102	0.89958	-0.89539	
OKGE	'MUSTANG 69KV'	57.60058	0.00455		'FPLWND2 34KV'	102	0.89958	-0.89503	
OKGE	'ONE OAK 345KV'	299	0.00169		'FPLWND2 34KV'	102	0.89958	-0.89789	
OKGE	'REDBUD 345KV'	900	0.00174		'FPLWND2 34KV'	102	0.89958	-0.89784	
OKGE	'REDBUD 345KV'	421.65	0.00174		'FPLWND2 34KV'	102	0.89958	-0.89784	
OKGE	'SEMINOLE 138KV'	21.86118	0.00197		'FPLWND2 34KV'	102	0.89958	-0.89761	
OKGE	'SOONER 138KV'	24.99997	-0.00269		'FPLWND2 34KV'	102	0.89958	-0.90227	
OKGE	'TINKER 5G 138KV'	62	0.00277		'FPLWND2 34KV'	102	0.89958	-0.89681	
OKGE	'HORSESHOE LAKE 138KV'	380.5	0.00256		'SLEEPING BEAR 34KV'	120	0.73478	-0.73222	
OKGE	'HORSESHOE LAKE 138KV'	380	0.00256		'SLEEPING BEAR 34KV'	120	0.73478	-0.73222	
OKGE	'MCCLAIN 138KV'	42	0.00387		'SLEEPING BEAR 34KV'	120	0.73478	-0.73091	
OKGE	'MUSKOGEE 161KV'	31	0.00044		'SLEEPING BEAR 34KV'	120	0.73478	-0.73434	18
OKGE	'MUSKOGEE 161KV'	166	0.00044		'SLEEPING BEAR 34KV'	120	0.73478	-0.73434	
OKGE	'MUSKOGEE 345KV'	20	0.00053		'SLEEPING BEAR 34KV'	120	0.73478	-0.73425	
OKGE	'MUSTANG 138KV'	365.5	0.00419		'SLEEPING BEAR 34KV'	120	0.73478	-0.73059	
OKGE	'MUSTANG 69KV'	57.60058	0.00455		'SLEEPING BEAR 34KV'	120	0.73478	-0.73023	
OKGE	'ONE OAK 345KV'	299	0.00169	OKGE	'SLEEPING BEAR 34KV'	120	0.73478	-0.73309	18
OKGE	'REDBUD 345KV'	421.65	0.00174	OKGE	'SLEEPING BEAR 34KV'	120	0.73478	-0.73304	
OKGE	'REDBUD 345KV'	900	0.00174		'SLEEPING BEAR 34KV'	120	0.73478	-0.73304	
OKGE	'SEMINOLE 138KV'	21.86118	0.00197		SLEEPING BEAR 34KV	120	0.73478	-0.73281	
OKGE	'SOONER 138KV'	24.99997	-0.00269	OKGE	SLEEPING BEAR 34KV	120	0.73478	-0.73747	18
OKGE	'SOUTH 4TH ST 69KV'	42.7	-0.0164	OKGE	SLEEPING BEAR 34KV	120	0.73478	-0.75118	
OKGE	'TINKER 5G 138KV'	62			SLEEPING BEAR 34KV	120	0.73478		

 UK6E
 ITINKER 5G 138KV<sup>I</sup>
 62
 0.00277
 OKGE
 ISLEEPING BEAR 34KV

 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

lowgate: 55788 alæ Redispatch Needed: 6/1/07 eason Flowgate Identified: 2007 S teservation Relief. 1032973 ource Control Area Source KGE 'HORS KGE 'HORS	of Amount 2.1	Aggregate Relief Amount 2.1	]						
Iate Tectispatch Needed:     6/1/07       jeason Flowgate Identified:     2007       iteservation     Relief.       1032973     Iource Control Area       KGE     HORS       KGE     MUSS	17 - 10/1/07 'Summer Peak of Amount 2.1	Amount	]						
eason Flowgate Identified: 2007 S teservation Relief. 1032973 iource Control Area Source KGE IHORS KGE IMCC	' Summer Peak of Amount 2.1	Amount	]						
teservation Relief 1032973 iource Control Area Source KGE 'HORS KGE 'MCSK	of Amount 2.1	Amount	1						
1032973 iource Control Area Source KGE HORS KGE 'MCCL KGE 'MUSK	of Amount 2.1	Amount							
1032973 iource Control Area Source KGE HORS KGE 'MCCL KGE 'MUSK	2.1								
iource Control Area Source DKGE 'HORS DKGE 'MCCL DKGE 'MUSK									
NGE 'HORS NGE 'MCCL NGE 'MUSK		Maximum		Sink Control		Maximum			Redispatch
NGE 'HORS NGE 'MCCL NGE 'MUSK	'Ce		GSF	Area	Sink		GSF	Factor	Amount (MW)
KGE 'MUSK	RSESHOE LAKE 138KV'	293.6641	0.00256		'FPLWND2 34KV'	102		-0.89702	
	CLAIN 138KV	42	0.00387		'FPLWND2 34KV'	102		-0.89571	
	SKOGEE 161KV	31	0.00044	OKGE	'FPLWND2 34KV'	102	0.89958	-0.89914	e la
KGE 'MUSK	SKOGEE 161KV'	166	0.00044	OKGE	'FPLWND2 34KV'	102	0.89958	-0.89914	,
KGE 'MUSK	SKOGEE 345KV'	20	0.00053	OKGE	'FPLWND2 34KV'	102	0.89958	-0.89905	j .
KGE 'ONE O	E OAK 345KV	261	0.00169		'FPLWND2 34KV'	102	0.89958	-0.89789	)
KGE 'REDB	DBUD 345KV	900	0.00174	OKGE	'FPLWND2 34KV'	102	0.89958	-0.89784	e la
KGE 'REDB	DBUD 345KV	421.65	0.00174	OKGE	'FPLWND2 34KV'	102	0.89958	-0.89784	e la
KGE 'SEMI	INOLE 138KV'	22.52728	0.00197	OKGE	'FPLWND2 34KV'	102	0.89958	-0.89761	
KGE 'SOON	ONER 138KV	24.99997	-0.00269	OKGE	'FPLWND2 34KV'	102	0.89958	-0.90227	
	JTH 4TH ST 69KV	42.7	-0.0164		'FPLWND2 34KV'	102	0.89958	-0.91598	j
	KER 5G 138KV'	62	0.00277		'FPLWND2 34KV'	102	0.89958	-0.89681	
	RSESHOE LAKE 138KV'	293.6641	0.00256		'SLEEPING BEAR 34KV'	120	0.73478	-0.73222	
KGE 'MCCL	CLAIN 138KV'	42	0.00387		'SLEEPING BEAR 34KV'	120	0.73478	-0.73091	
KGE 'MUSK	SKOGEE 161KV	31	0.00044		'SLEEPING BEAR 34KV'	120		-0.73434	/
	SKOGEE 161KV	166	0.00044		'SLEEPING BEAR 34KV'	120			
	SKOGEE 345KV'	20	0.00053		'SLEEPING BEAR 34KV'	120		-0.73425	
	OAK 345KV	261	0.00169		'SLEEPING BEAR 34KV'	120		-0.73309	
	DBUD 345KV	900	0.00174		'SLEEPING BEAR 34KV'	120		-0.73304	
	DBUD 345KV	421.65	0.00174		'SLEEPING BEAR 34KV'	120	0.73478	-0.73304	
	/INOLE 138KV'	22.52728	0.00197		'SLEEPING BEAR 34KV'	120	0.73478	-0.73281	
KGE 'SOON	ONER 138KV	24.99997	-0.00269	OKGE	'SLEEPING BEAR 34KV'	120	0.73478	-0.73747	
	JTH 4TH ST 69KV	42.7	-0.0164		'SLEEPING BEAR 34KV'	120		-0.75118	
	KER 5G 138KV'	62	0.00277		'SLEEPING BEAR 34KV'	120		-0.73201	1
KGE 'WOOI	ODWARD 24KV'	9.3	0.73478	OKCE	'FPLWND2 34KV'	102	0.89958	-0.1648	d l

Limiting Facility:	FPL SWITCH - MOORELAND 138KV CKT 1								
Direction:	From->To								
Line Outage:	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFOR	RMER CKT 1							
Flowgate:	55785559991WOODODWRD24214207WP								
Date Redispatch Needed:	12/1/07 - 4/1/08								
Season Flowgate Identified:	2007 Winter Peak								
		Aggregate Relief							
Reservation	Relief Amount	Amount							
1032973		11.2					1		1
		Maximum		Sink Control	o: .	Maximum	0.05		Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
OKGE	'AES 161KV'	78.99999	0.00035		'FPLWND2 34KV'	101.9968		-0.89922	2 12
OKGE	'HORSESHOE LAKE 138KV'	380.5	0.00255		'FPLWND2 34KV'	101.9968		-0.89702 -0.89702	
OKGE	'HORSESHOE LAKE 138KV'	380	0.00255		'FPLWND2 34KV'	101.9968			
OKGE	'HORSESHOE LAKE 138KV'	91	0.00255		'FPLWND2 34KV'	101.9968		-0.89702	
OKGE	'HORSESHOE LAKE 69KV'	16	0.00245		'FPLWND2 34KV'	101.9968		-0.89712	12
OKGE	MCCLAIN 138KV	42	0.00386		'FPLWND2 34KV'	101.9968		-0.89571	
OKGE OKGE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	166 31	0.00043		'FPLWND2 34KV' 'FPLWND2 34KV'	101.9968		-0.89914 -0.89914	
			0.00043						
OKGE	'MUSKOGEE 345KV'	20			'FPLWND2 34KV'	101.9968		-0.89906	
OKGE	'ONE OAK 345KV'	336	0.00168		'FPLWND2 34KV'	101.9968		-0.89789	
OKGE	'REDBUD 345KV'	421.65	0.00173		'FPLWND2 34KV'	101.9968		-0.89784	
OKGE	'REDBUD 345KV'	900	0.00173		'FPLWND2 34KV'	101.9968		-0.89784	
OKGE	SEMINOLE 138KV	319.8235	0.00195		'FPLWND2 34KV'	101.9968		-0.89762	
OKGE	'SEMINOLE 345KV'	507.6	0.00203		'FPLWND2 34KV'	101.9968		-0.89754	
OKGE OKGE	SOONER 138KV	24.99997	-0.0027		'FPLWND2 34KV'	101.9968		-0.90227	
	'SOUTH 4TH ST 69KV'	42.7	-0.01641		'FPLWND2 34KV'	101.9968		-0.91598	
OKGE	'TINKER 5G 138KV'	62	0.00276		'FPLWND2 34KV'	101.9968		-0.89681	12
OKGE	'MUSTANG 138KV'	365.5	0.00418		'FPLWND2 34KV'	101.9968		-0.89539 -0.89503	
OKGE	'MUSTANG 69KV'	106	0.00454		'FPLWND2 34KV'	101.9968		-0.89503	
OKGE OKGE	'AES 161KV' 'HORSESHOE LAKE 138KV'	78.99999 380	0.00035		'SLEEPING BEAR 34KV' 'SLEEPING BEAR 34KV'	120		-0.73442	
OKGE	HORSESHOE LAKE 138KV	380	0.00255		SLEEPING BEAR 34KV	120		-0.73222	
OKGE		380.5	0.00255			120		-0.73222	
	'HORSESHOE LAKE 138KV'		0.00255		SLEEPING BEAR 34KV				
OKGE OKGE	'HORSESHOE LAKE 69KV' 'MCCLAIN 138KV'	16 42	0.00245	OKGE	'SLEEPING BEAR 34KV' 'SLEEPING BEAR 34KV'	120		-0.73232	1
OKGE			0.00043			120		-0.73091	
OKGE	'MUSKOGEE 161KV' 'MUSKOGEE 161KV'	166 31	0.00043		'SLEEPING BEAR 34KV' 'SLEEPING BEAR 34KV'	120		-0.73434	
OKGE	MUSKOGEE 161KV 'MUSKOGEE 345KV'	20	0.00043		SLEEPING BEAR 34KV	120		-0.73434	
OKGE	MUSTANG 138KV	365.5	0.00051		SLEEPING BEAR 34KV	120		-0.73426	
OKGE		365.5 106	0.00418			120		-0.73059	
OKGE	'MUSTANG 69KV' 'ONE OAK 345KV'	336	0.00454		'SLEEPING BEAR 34KV' 'SLEEPING BEAR 34KV'	120		-0.73023	
OKGE	REDBUD 345KV	336	0.00168		SLEEPING BEAR 34KV	120		-0.73309	
OKGE	REDBUD 345KV	421.65	0.00173		SLEEPING BEAR 34KV	120		-0.73304	
OKGE	SEMINOLE 138KV		0.00173			120		-0.73304	
OKGE	SEMINOLE 138KV SEMINOLE 345KV	319.8235 507.6	0.00195		'SLEEPING BEAR 34KV' 'SLEEPING BEAR 34KV'	120		-0.73282	
OKGE	SOONER 138KV	24.99997	-0.00203		SLEEPING BEAR 34KV	120		-0.73274	
OKGE	SOUNER 138KV SOUTH 4TH ST 69KV	24.99997 42.7	-0.0027		SLEEPING BEAR 34KV	120		-0.73747	
OKGE	'TINKER 5G 138KV'	42.7	0.00276		SLEEPING BEAR 34KV	120		-0.75118	1

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

Upgrade:	FT SUPPLY - WOODWARD 69KV CKT 1								
Limiting Facility:	FT SUPPLY - WOODWARD 69KV CKT 1								
Direction:	From->To								
Line Outage:	FT SUPPLY - IODINE 138KV CKT 1								
Flowgate:	55919560961559205595713207AP								
Date Redispatch Needed:	Starting 2007 4/1 - 6/1 Until EOC of Upgrade								
Season Flowgate Identified:	2007 April Minimum								
Ť		Aggregate Relief	1						
Reservation	Relief Amount	Amount							
1023236	2.6	2.6							
		Maximum		Sink Control		Maximum			Redispatch
	Source	Increment(MW)	GSF	Area		Decrement(MW)	GSF	Factor	Amount (MW)
WFEC	'ANADARKO 138KV'	90	-0.00101		'SLEEPING BEAR 138KV'	80			
WFEC	'ANADARKO 138KV'	258.5789			'SLEEPING BEAR 138KV'	80		-0.79089	3
WFEC	'ANADARKO 69KV'	76	-0.00099		'SLEEPING BEAR 138KV'	80		-0.79087	3
WFEC	'HUGO 138KV'	191.9206	-0.00019		'SLEEPING BEAR 138KV'	80		-0.79007	3
	'MORLND 138KV'	320			'SLEEPING BEAR 138KV'	80	0.78988	-0.80322	3
	imum Increment were determine from the Souce and Sink (	Operating Points in the	ne study mo	dels where limit	ing facility was identified.				
Factor = Source GSF - Sink GS									
Redispatch Amount = Relief Ar	mount / Factor								
	FT SUPPLY - WOODWARD 69KV CKT 1								
	FT SUPPLY - WOODWARD 69KV CKT 1								
	From->To								
	IODINE - MOORELAND 138KV CKT 1								
	55919560961559575599913207AP								
	Starting 2007 4/1 - 6/1 Until EOC of Upgrade								
Season Flowgate Identified:	2007 April Minimum	A	1						
Description	Relief Amount	Aggregate Relief							
Reservation 1023236		Amount	4						
1023236	1.3	1.3 Maximum		Sink Control		Maximum	1	1	Dediensteh
Courses Control Area	Source	Increment(MW)	GSF		Sink	Decrement(MW)	GSF	Feeter	Redispatch Amount (MW)
Source Control Area	Source	Increment(IVIVV)	GOL	Area	OIIIK	Decrement(MW)	GOL	Factor	ATTIOUTIL (IVIVV)

Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)	
WFEC	'ANADARKO 138KV'	258.5789	-0.00101	WFEC	'SLEEPING BEAR 138KV'	80	0.78988	-0.79089	2	
WFEC	'ANADARKO 138KV'	90	-0.00101	WFEC	'SLEEPING BEAR 138KV'	80	0.78988	-0.79089	2	
WFEC	'ANADARKO 69KV'	76	-0.00099	WFEC	'SLEEPING BEAR 138KV'	80	0.78988	-0.79087	2	
WFEC	'HUGO 138KV'	191.9206	-0.00019	WFEC	'SLEEPING BEAR 138KV'	80	0.78988	-0.79007	2	
WFEC	'MORLND 138KV'	320	-0.01334	WFEC	'SLEEPING BEAR 138KV'	80	0.78988	-0.80322	2	
Maximum Decrement and Max	Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.									

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

Upgrade: Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed: Season Flowgate Identified: Reservation	FT SUPPLY 138/69KV TRANSFORMER CKT 1 FT SUPPLY 138/69KV TRANSFORMER CKT 1 FT SUPPLY - IODINE 138KV CKT 1 55/91555201559255595711106WP 12/1/06 - 4/1/07 2006 Winter Peak Relief Amount	Aggregate Relief Amount	]						
1023236	6 18.								
I		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
WFEC	MORLND 138KV' ximum Increment were determine from the Souce and Sink	166.1695		WFEC	'SLEEPING BEAR 138KV'		80	1	-1 18
Redispatch Amount = Relief A	mount / Factor								
Upgrade:	FT SUPPLY 138/69KV TRANSFORMER CKT 1								
Limiting Facility:	FT SUPPLY 138/69KV TRANSFORMER CKT 1								
Direction:	From->To								
Line Outage:	FT SUPPLY - IODINE 138KV CKT 1								
Flowgate:	55919559201559205595711107G								
Date Redispatch Needed:	Starting 2007 4/1 - 6/1 Until EOC of Upgrade								
Season Flowgate Identified:	2007 Spring Peak		-						
		Aggregate Relief	1						
Reservation	Relief Amount	Amount							
1023236	6 18.					Tele			<b>—</b> •• • • •
L	-	Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSE	Area	Sink	Decrement/MM/)	GSE	Factor	Amount (MM/)

 
 Source
 Maximum
 GSF
 Area
 Sink

 WFEC
 MORLND 138KV
 320
 0
 WFEC
 \SLEEPING BEAR 138KV

 Maximum Decrement and Maximum Increment were determine from the Source and Sink Operating Points in the study models where limiting facility was identified.
 Factor = Source GSF - Sink GSF
 Redispatch Amount = Relief Amount / Factor
 Decrement(MW) GSF 80 Factor Amount (MW) -1 18

Upgrade: Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed: Season Flowgate Identified: Reservation 1023236	FT SUPPLY 138/69KV TRANSFORMER CKT 1 FT SUPPLY 138/69KV TRANSFORMER CKT 1 From->To FT SUPPLY - IODINE 138KV CKT 1 55919559201559201595711107WP 12/107 - 4/108 2007 Winter Peak Relief Amount 18.	Aggregate Relief Amount 4 18.4	]							
		Maximum		Sink Control		Maximum			Redispatch	
Source Control Area	Source		GSF			Decrement(MW)	GSF	Factor	Amount (MW)	
WFEC	'MORLND 138KV'	148.9085			'SLEEPING BEAR 138KV'	80	) 1	-1	18	
Maximum Decrement and Max	aximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.									

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

Upgrade:	FT SUPPLY 138/69KV TRANSFORMER CKT 1								
	FT SUPPLY 138/69KV TRANSFORMER CKT 1								
Direction:	From->To								
Line Outage:	FT SUPPLY - IODINE 138KV CKT 1								
Flowgate:	55919559201559205595711207FA								
Date Redispatch Needed:	Starting 2007 10/1 - 12/1 Until EOC of Upgrade								
Season Flowgate Identified:	2007 Fall Peak								
		Aggregate Relief							
Reservation	Relief Amount	Amount							
1023236	18.9	18.9							
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
WFEC	'MORLND 138KV'	320	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	19
Maximum Dooromont and Maxi	imum Incromont wore determine from the Souce and Sink I	Operating Reinte in th	o ctudy mo	dolo whore limi	ting facility was identified				• • •

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

Upgrade: Limiting Facility:	FT SUPPLY 138/69KV TRANSFORMER CKT 1 FT SUPPLY 138/69KV TRANSFORMER CKT 1									
Direction: Line Outage:	From->To FT SUPPLY - IODINE 138KV CKT 1									
Flowgate:	55919559201559205595713207SH									
Date Redispatch Needed:	6/1 - 10/1 Until EOC of Upgrade									
Season Flowgate Identified:	2007 Summer Shoulder									
		Aggregate Relief	٦							
Reservation	Relief Amount	Amount								
1023236	i 18.		2							
		Maximum		Sink Control		Maximum			Redispatch	
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)	
WFEC	'ANADARKO 138KV'	90	)	0 WFEC	'SLEEPING BEAR 138KV'	80	) 1	-1	i	1
WFEC	'ANADARKO 138KV'	6.515274		0 WFEC	'SLEEPING BEAR 138KV'	80	) 1	i -1	í.	1
WFEC	'ANADARKO 69KV'	76	6	0 WFEC	'SLEEPING BEAR 138KV'	80	) 1	-1	i	1
WFEC	'MORLND 138KV'	173.8576	5	0 WFEC	'SLEEPING BEAR 138KV'	80	) 1	-1		1
Maximum Decrement and Max Factor = Source GSF - Sink G	kimum Increment were determine from the Souce and Sink	Operating Points in	the study	models where limit	ing facility was identified.					
Redispatch Amount = Relief A										

Upgrade:	FT SUPPLY 138/69KV TRANSFORMER CKT 1								
	FT SUPPLY 138/69KV TRANSFORMER CKT 1								
	FIGURE CKT I								
	FT SUPPLY - IODINE 138KV CKT 1								
	55919559201559205595713307AP								
	Starting 2007 4/1 - 6/1 Until EOC of Upgrade								
Season Flowgate Identified:	2007 April Minimum		1						
		Aggregate Relief							
		Amount							
1023236	22.2								
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
WFEC	'ANADARKO 138KV'	90	C	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	1 22
WFEC	'ANADARKO 138KV'	261.9045	C	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	1 22
WFEC	'ANADARKO 69KV'	76	C	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	22
WFEC	'HUGO 138KV'	191.9206	C	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	1 22
WFEC	'MORLND 138KV'	320	C	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	1 22
Maximum Decrement and Max	imum Increment were determine from the Souce and Sink (	Operating Points in the	he study mo	dels where limi	ing facility was identified.				·
Factor = Source GSF - Sink GS	SF								
Redispatch Amount = Relief Ar	nount / Factor								

Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed:	FT SUPPLY 138/69KV TRANSFORMER CKT 1 FT SUPPLY 138/69KV TRANSFORMER CKT 1 From->To FT SUPPLY - IODINE 138KV CKT 1 55919559201559205595713307SP 6/107 - 10/107 2007 Summer Peak								
Reservation	Relief Amount	Aggregate Relief Amount							
1023236	17.4	17.4							
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
WFEC	'ANADARKO 138KV'	90			'SLEEPING BEAR 138KV'	80	) 1	-1	17
WFEC	'ANADARKO 69KV'	76			'SLEEPING BEAR 138KV'	80	) 1	-1	17
WFEC	'MORLND 138KV'	39.60681		0 WFEC	'SLEEPING BEAR 138KV'	80	) 1	-1	17

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 CSF - Sink GSF Redispatch Amount = Relief Amount / Factor

Upgrade:	FT SUPPLY 138/69KV TRANSFORMER CKT 1				
Limiting Facility:	FT SUPPLY 138/69KV TRANSFORMER CKT 1				
Direction:	From->To				
Line Outage:	IODINE - MOORELAND 138KV CKT 1				
Flowgate:	55919559201559575599911106WP				
Date Redispatch Needed:	12/1/06 - 4/1/07				
Season Flowgate Identified:	2006 Winter Peak				
		Aggregate Relief			
Reservation	Relief Amount	Amount			
1023236	15.2	15.2			
		Maximum		Sink Control	1
Courses Control Area	Course	In erement/MA/	COL	A.r.o.o.	C

1023230	15.2	10.2							
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
WFEC	'MORLND 138KV'	166.1695	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	15
Maximum Decrement and Maxi	mum Increment were determine from the Souce and Sink (	Operating Points in the	he study mo	dels where limit	ing facility was identified.				

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

Limiting Facility: Direction: Line Outage: Flowgate:	FT SUPPLY 138/69KV TRANSFORMER CKT 1 FT SUPPLY 138/69KV TRANSFORMER CKT 1 From->To IODINE - MOORELAND 138KV CKT 1 559195592015597:5599911107G Starting 2007 4/1 - 6/1 Until EOC of Upgrade 2007 Spring Peak		-						
		Aggregate Relief							
	Relief Amount	Amount							
1023236	15.	4 15.4							
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
WFEC	'MORLND 138KV'	320	(	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	15
Maximum Decrement and Max	imum Increment were determine from the Souce and Sink	Operating Points in	he study mo	dels where limit	ing facility was identified.				

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

Upgrade:	ET SUPPLY 138/69KV TRANSFORMER CKT 1	
Limiting Facility:	FT SUPPLY 138/69KV TRANSFORMER CKT 1	
Direction:	From->To	
Line Outage:	IODINE - MOORELAND 138KV CKT 1	
Flowgate:	55919559201559575599911107WP	
Date Redispatch Needed:	12/1/07 - 4/1/08	
Season Flowgate Identified:	2007 Winter Peak	
		Aggregate Relief
Reservation	Relief Amount	Amount
1023236	15.3	15.3
		Maximum

1023230	15.3	15.5							
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
WFEC	'MORLND 138KV'	148.9085	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	15
Maximum Decrement and Maxi	mum Increment were determine from the Souce and Sink (	Operating Points in the	ne study mo	dels where limit	ing facility was identified.				· · · · ·

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

Realized and a second										
Upgrade:	FT SUPPLY 138/69KV TRANSFORMER CKT 1									
	FT SUPPLY 138/69KV TRANSFORMER CKT 1									
Direction:	From->To									
Line Outage:	IODINE - MOORELAND 138KV CKT 1									
Flowgate:	55919559201559575599911207FA									
	Starting 2007 10/1 - 12/1 Until EOC of Upgrade									
Season Flowgate Identified:	2007 Fall Peak		_							
		Aggregate Relief								
		Amount								
1023236	16.3									_
		Maximum		Sink Control		Maximum			Redispatch	
			GSF	Area		Decrement(MW)		Factor	Amount (MW)	
	'MORLND 138KV'	320		WFEC	'SLEEPING BEAR 138KV'	80	1		-1 10	ذ
	imum Increment were determine from the Souce and Sink C	Operating Points in t	he study mo	dels where limit	ing facility was identified.					
Factor = Source GSF - Sink GS										
Redispatch Amount = Relief Am	nount / Factor									
Liparado:	ET SUPPLY 128/60K// TRANSCORMED CKT 1									

Upgrade:	FT SUPPLY 138/69KV TRANSFORMER CKT 1								
Limiting Facility:	FT SUPPLY 138/69KV TRANSFORMER CKT 1								
Direction:	From->To								
Line Outage:	IODINE - MOORELAND 138KV CKT 1								
Flowgate:	55919559201559575599911407SH								
Date Redispatch Needed:	6/1 - 10/1 Until EOC of Upgrade								
Season Flowgate Identified:	2007 Summer Shoulder								
		Aggregate Relief							
Reservation	Relief Amount	Amount							
1023236									
102020	10.	Maximum		Sink Control		Maximum	1	1	Redispatch
Source Control Area	Source		GSF	Area			GSF		Amount (MW)
WFEC	'MORLND 138KV'	173.8576		WFEC	SLEEPING BEAR 138KV	80	1	-1	15
	ximum Increment were determine from the Souce and Sink								
Factor = Source GSF - Sink G									
Redispatch Amount = Relief A									
realized and and and and and and and and and an									
Upgrade:	FT SUPPLY 138/69KV TRANSFORMER CKT 1								
Limiting Facility:	FT SUPPLY 138/69KV TRANSFORMER CKT 1								
Direction:	From->To								
Line Outage:	IODINE - MOORELAND 138KV CKT 1								
Flowgate:	55919559201559575599913307AP								
Date Redispatch Needed:	Starting 2007 4/1 - 6/1 Until EOC of Upgrade								
Season Flowgate Identified:	2007 April Minimum								

		Aggregate Relief							
Reservation	Relief Amount	Amount							
1023236	20.7	20.7							
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
WFEC	'ANADARKO 138KV'	90	0	WFEC	'SLEEPING BEAR 138KV'	80	) 1	-1	. 21
WFEC	'ANADARKO 138KV'	261.9045	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	2
WFEC	'ANADARKO 69KV'	76	0	WFEC	'SLEEPING BEAR 138KV'	80	) 1	-1	2
WFEC	'HUGO 138KV'	191.9206	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	. 2
WFEC	'MORLND 138KV'	320	0	WFEC	'SLEEPING BEAR 138KV'	80	1	-1	2
Maximum Decrement and Maxi	imum Increment were determine from the Souce and Sink O	Operating Points in the	ne study mo	dels where limit	ing facility was identified.				
Factor = Source GSF - Sink GS	۶F								
Redispatch Amount = Relief An	nount / Factor								
Factor = Source GSF - Sink GS Redispatch Amount = Relief An									

Upgrade:	FT SUPPLY 138/69KV TRANSFORMER CKT 1				
Limiting Facility:	FT SUPPLY 138/69KV TRANSFORMER CKT 1				
Direction:	From->To				
Line Outage:	IODINE - MOORELAND 138KV CKT 1				
Flowgate:	55919559201559575599913307SP				
Date Redispatch Needed:	6/1/07 - 10/1/07				
Season Flowgate Identified:	2007 Summer Peak				
		Aggregate Relief			
Reservation	Relief Amount	Amount			
102323	6 1	3.9 13.9			
		Maximum		Sink Control	
Source Control Area	Source	Increment(MW)	GSF	Area	Sink
WFEC	'ANADARKO 138KV'	90	0	WFEC	'SLEEPING BEAR 138KV'
WFEC	'ANADARKO 138KV'	5.272072	0	WFEC	'SLEEPING BEAR 138KV'
WFEC	'ANADARKO 69KV'	76	0	WFEC	'SLEEPING BEAR 138KV'
WFEC	'MORLND 138KV'	39.60681	0	WFEC	SLEEPING BEAR 138KV

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

Reservation         Relief Amount           1034589         0.6         2.2	
Maximum Sink Control Maximum Redispatch	
Source Control Area Source Increment(MW) GSF Area Sink Decrement(MW) GSF Factor Amount (MW)	
WERE         'CITY OF MULVANE 69KV'         7.502         -0.08063 WERE         'GILL ENERGY CENTER 69KV'         75         0.23271         -0.31334	7
WERE         'BROWN COUNTY 115KV'         4.3         -0.00059         WERE         'GILL ENERGY CENTER 69KV'         75         0.23271         -0.2333	9
WERE         'CHANUTE 69KV'         23.877         -0.00134         WERE         'GILL ENERGY CENTER 69KV'         75         0.23271         -0.23405	9
WERE         'CITY OF FREDONIA 69KV'         5.893985         -0.00153         WERE         'GILL ENERGY CENTER 69KV'         75         0.23271         -0.23424	9
WERE         'CITY OF GIRARD 69KV'         5.911         -0.00086         WERE         'GILL ENERGY CENTER 69KV'         75         0.23271         -0.23357	9
WERE         'CITY OF IOLA 69KV'         13.361         -0.00119         WERE         'GILL ENERGY CENTER 69KV'         75         0.23271         -0.2339	9
WERE         'EVANS ENERGY CENTER 138KV'         8         -0.00175         WERE         'GILL ENERGY CENTER 69KV'         75         0.23271         -0.23446	9
WERE         'GETTY 69KV'         35         -0.00663 WERE         'GILL ENERGY CENTER 69KV'         75         0.23271         -0.23934	9
WERE         'LAWRENCE ENERGY CENTER 230KV'         43.40295         -0.00042         WERE         'GILL ENERGY CENTER 69KV'         75         0.23271         -0.23313	9
WERE         INEOSHO ENERGY CENTER 138KV'         40.01758         -0.00112         WERE         I'GILL ENERGY CENTER 69KV'         75         0.23271         -0.23383	9
WERE  'CITY OF MULVANE 69KV' 7.502 -0.08063 WERE  'CITY OF WELLINGTON 69KV' 39.5 0.11587 -0.1965	11
WERE CITY OF MULVANE 69KV' 7.502 -0.08063 WERE 'GILL ENERGY CENTER 138KV' 171 0.0759 -0.15653	14
WERE 'CITY OF MULVANE 69KV' 7.502 -0.08063 WERE 'WACO 138KV' 17.96 0.068 -0.14863	15
WERE 'EVANS ENERGY CENTER 138KV' 8 -0.00175 WERE 'CITY OF WELLINGTON 69KV' 39.5 0.11587 -0.11762	19
WERE 'GETTY 69KV' 35 -0.00663 WERE 'GILL ENERGY CENTER 138KV' 171 0.0759 -0.08253	27
WERE 'CITY OF IOLA 69KV' 13.361 -0.00119 WERE 'GILL ENERGY CENTER 138KV' 171 0.0759 -0.07709	28
WERE INEOSHO ENERGY CENTER 138KV' 40.01758 -0.00112 WERE 'GILL ENERGY CENTER 138KV' 171 0.0759 -0.07702	28
WERE 'GETTY 69KV' 35 -0.00663 WERE WACO 138KV' 17.96 0.068 -0.07463	29
WERE 'CITY OF IOLA 69KV' 13.361 -0.00119 WERE WACO 138KV' 17.96 0.068 -0.06919	
WERE (NEOSHO ENERGY CENTER 138KV' 40.01758 -0.00112 WERE (WACO 138KV' 17.96 0.068 -0.06912	32
Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.	32 32

Maximum Decrement(MW)

GSF

80 80 80

Factor

Redispatch Amount (MW)

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

Upgrade: Limiting Facility:	GILL ENERGY CENTER EAST - MACARTHUR 69KV CH GILL ENERGY CENTER EAST - MACARTHUR 69KV CH							
Direction:	From->To							
Line Outage:	GILL ENERGY CENTER EAST - GILLJCT269.0 69KV CH	T 1						
Flowgate:	57795578131577955779811407SP							
Date Redispatch Needed:	6/1/07 - 10/1/07							
Season Flowgate Identified:	2007 Summer Peak							
		Aggregate Relief						
Reservation	Relief Amount	Amount						
10345								
10345	590 1.3	1.9						
		Maximum	Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF Area	Sink	Decrement(MW)	GSF		Amount (MW)
WERE	'CITY OF MULVANE 69KV'	7.502	-0.08344 WERE	'GILL ENERGY CENTER 69KV'	75			I
WERE	'BROWN COUNTY 115KV'	4.3	-0.00051 WERE	'GILL ENERGY CENTER 69KV'	75			L
WERE	'CHANUTE 69KV'	23.877	-0.00124 WERE	'GILL ENERGY CENTER 69KV'	75			ı
WERE	'CITY OF FREDONIA 69KV'	5.893985	-0.00142 WERE	'GILL ENERGY CENTER 69KV'	75			1
WERE	'CITY OF GIRARD 69KV'	5.911	-0.00079 WERE	'GILL ENERGY CENTER 69KV'	75			L
WERE	'CITY OF IOLA 69KV'	13.361	-0.0011 WERE	'GILL ENERGY CENTER 69KV'	75			ı
WERE	'EVANS ENERGY CENTER 138KV'	8	-0.00061 WERE	'GILL ENERGY CENTER 69KV'	75			ı
WERE	'GETTY 69KV'	35	-0.00614 WERE	'GILL ENERGY CENTER 69KV'	75			1
WERE	'LAWRENCE ENERGY CENTER 230KV'	43.40295	-0.0003 WERE	'GILL ENERGY CENTER 69KV'	75			
WERE	'NEOSHO ENERGY CENTER 138KV'	40.01758	-0.00103 WERE	'GILL ENERGY CENTER 69KV'	75			
WERE	'CITY OF MULVANE 69KV'	7.502	-0.08344 WERE	'CITY OF WELLINGTON 69KV'	39.5			1
WERE	'CITY OF MULVANE 69KV'	7.502	-0.08344 WERE	'GILL ENERGY CENTER 138KV'	171		-0.14954	1
WERE	'CITY OF MULVANE 69KV'	7.502	-0.08344 WERE	'WACO 138KV'	17.96		-0.14275	1
WERE	'EVANS ENERGY CENTER 138KV'	8	-0.00061 WERE	'CITY OF WELLINGTON 69KV'	39.5			1
WERE	'CITY OF MULVANE 69KV'	7.502	-0.08344 WERE	'ABILENE ENERGY CENTER 115KV'	40		-0.08451	2
WERE	'CITY OF MULVANE 69KV'	7.502	-0.08344 WERE	'BPU - CITY OF MCPHERSON 115KV'	165		-0.08596	2
WERE	'CITY OF MULVANE 69KV'	7.502	-0.08344 WERE	'HUTCHINSON ENERGY CENTER 115KV'	210			2
WERE	'CITY OF MULVANE 69KV'	7.502	-0.08344 WERE	'HUTCHINSON ENERGY CENTER 69KV'	45	0.00335		
WERE	'CITY OF MULVANE 69KV'	7.502	-0.08344 WERE	'SMOKEY HILLS 34KV'	50			2
WERE	'GETTY 69KV'	35	-0.00614 WERE	'GILL ENERGY CENTER 138KV'	171		-0.07224	2
WERE	'CITY OF IOLA 69KV'	13.361	-0.0011 WERE	'GILL ENERGY CENTER 138KV'	171		-0.0672	2
WERE	'NEOSHO ENERGY CENTER 138KV'	40.01758	-0.00103 WERE	'GILL ENERGY CENTER 138KV'	171		-0.06713	2
WERE	'GETTY 69KV'	35		'WACO 138KV'	17.96		-0.06545	2
WERE	'CITY OF IOLA 69KV'	13.361	-0.0011 WERE	'WACO 138KV'	17.96		-0.06041	3
WERE	'NEOSHO ENERGY CENTER 138KV'	40.01758	-0.00103 WERE	'WACO 138KV'	17.96	0.05931	-0.06034	3

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

Jpgrade: .imiting Facility:	GILL ENERGY CENTER EAST - MACARTHUR 69KV CK GILL ENERGY CENTER EAST - MACARTHUR 69KV CK							
irection:	From->To							
ne Outage:	GILLJCT269.0 - OATVILLE 69KV CKT 1							
lowgate:	57795578131577985782511407SP							
ate Redispatch Needed:	6/1/07 - 10/1/07							
eason Flowgate Identified:	2007 Summer Peak							
		Aggregate Relief	]					
teservation	Relief Amount	Amount						
1034589	0.2							
1034590	0.6	0.9						
		Maximum	Sink Control		Maximum			Redispatch
ource Control Area	Source	Increment(MW)	GSF Area	Sink	Decrement(MW)	GSF	Factor	Amount (MV
/ERE	'CITY OF MULVANE 69KV'	7.502	-0.09756 WERE	'GILL ENERGY CENTER 69KV'	75		-0.25198	
/ERE	'CHANUTE 69KV'	23.877	-0.00116 WERE	'GILL ENERGY CENTER 69KV'	75		-0.15558	
/ERE	'CITY OF BURLINGTON 69KV'	2	-0.00204 WERE	'GILL ENERGY CENTER 69KV'	75		-0.15646	
VERE	'CITY OF FREDONIA 69KV'	5.893985	-0.00135 WERE	'GILL ENERGY CENTER 69KV'	75		-0.15577	
/ERE	'CITY OF GIRARD 69KV'	5.911	-0.00072 WERE	'GILL ENERGY CENTER 69KV'	75		-0.15514	
/ERE	'CITY OF IOLA 69KV'	13.361	-0.00102 WERE	'GILL ENERGY CENTER 69KV'	75		-0.15544	
/ERE	'CITY OF MULVANE 69KV'	7.502	-0.09756 WERE	'CITY OF WELLINGTON 69KV'	39.5		-0.17352	
/ERE	'GETTY 69KV'	35		'GILL ENERGY CENTER 69KV'	75		-0.16021	
/ERE	'NEOSHO ENERGY CENTER 138KV'	40.01758	-0.00095 WERE	'GILL ENERGY CENTER 69KV'	75		-0.15537	
/ERE	'BROWN COUNTY 115KV'	4.3	-0.00042 WERE	'GILL ENERGY CENTER 69KV'	75		-0.15484	
VERE	CITY OF MULVANE 69KV	7.502		'GILL ENERGY CENTER 138KV'	171		-0.15084	
VERE	CITY OF MULVANE 69KV	7.502		WACO 138KV	17.96		-0.14558	
VERE	'EVANS ENERGY CENTER 138KV'	8		GILL ENERGY CENTER 69KV	75		-0.15281	
VERE	'LAWRENCE ENERGY CENTER 115KV'	8.000004		'GILL ENERGY CENTER 69KV'	75		-0.15454	
VERE	'LAWRENCE ENERGY CENTER 230KV' 'OXFORD 138KV'	43.40295	-0.0001 WERE 0.00605 WERE	GILL ENERGY CENTER 69KV	75		-0.15452 -0.14837	
				GILL ENERGY CENTER 69KV				
/ERE /ERE	'ST JOHN 115KV' 'CITY OF MULVANE 69KV'	2.9		'GILL ENERGY CENTER 69KV' 'HUTCHINSON ENERGY CENTER 115KV'	210		-0.14528	
/ERE	CITY OF MULVANE 69KV	7.502		HUTCHINSON ENERGY CENTER 115KV HUTCHINSON ENERGY CENTER 69KV	45		-0.10041	
/ERE	CITY OF MULVANE 69KV	7.502	-0.09756 WERE	'ABILENE ENERGY CENTER 115KV'	40		-0.09859	
/ERE	CITY OF MULVANE 69KV	7.502		'BPU - CITY OF MCPHERSON 115KV'	165		-0.09859	
/ERE	CITY OF MULVANE 69KV	7.502	-0.09756 WERE	CHANUTE 69KV	56.723		-0.09975	
/ERE	CITY OF MULVANE 69KV	7.502	-0.09756 WERE	CITY OF AUGUSTA 69KV	26.1		-0.0964	
/ERE	CITY OF MULVANE 69KV	7.502	-0.09756 WERE	CITY OF BURLINGTON 69KV	10.5		-0.09552	
/ERE	CITY OF MULVANE 69KV	7.502	-0.09756 WERE	CITY OF ERIE 69KV	25.474		-0.0964	
VERE	CITY OF MULVANE 69KV	7.502	-0.09756 WERE	'CITY OF FREDONIA 69KV'	4.400015		-0.09621	
VERE	CITY OF MULVANE 69KV	7.502	-0.09756 WERE	CITY OF GIRARD 69KV	4.789		-0.09684	
VERE	CITY OF MULVANE 69KV	7.502	-0.09756 WERE	'CITY OF IOLA 69KV'	24.267		-0.09654	
VERE	CITY OF MULVANE 69KV	7.502	-0.09756 WERE	CITY OF NEODESHA 69KV	4.5		-0.09639	
/ERE	'CITY OF MULVANE 69KV'	7.502	-0.09756 WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97		-0.09552	
VERE	'CITY OF MULVANE 69KV'	7.502	-0.09756 WERE	'EVANS ENERGY CENTER 138KV'	565	0.00161	-0.09917	
VERE	'CITY OF MULVANE 69KV'	7.502	-0.09756 WERE	'HOLTON 115KV'	6	-0.00017	-0.09739	0
/ERE	'CITY OF MULVANE 69KV'	7.502	-0.09756 WERE	JEFFREY ENERGY CENTER 230KV	486		-0.09778	
VERE	CITY OF MULVANE 69KV	7.502	-0.09756 WERE	'JEFFREY ENERGY CENTER 345KV'	924		-0.09777	
/ERE	CITY OF MULVANE 69KV	7.502	-0.09756 WERE	'NEOSHO ENERGY CENTER 138KV'	6.98242	-0.00095	-0.09661	
/ERE	'CITY OF MULVANE 69KV'	7.502	-0.09756 WERE	'SMOKEY HILLS 34KV'	50		-0.09947	
/ERE	CITY OF MULVANE 69KV	7.502	-0.09756 WERE	'SOUTH SENECA 115KV'	13.9		-0.09728	
/ERE	'CITY OF MULVANE 69KV'	7.502	-0.09756 WERE	'TECUMSEH ENERGY CENTER 115KV'	158		-0.09756	
/ERE	'BROWN COUNTY 115KV'	4.3	-0.00042 WERE	'CITY OF WELLINGTON 69KV'	39.5		-0.07638	
/ERE	'CITY OF FREDONIA 69KV'	5.893985	-0.00135 WERE	'CITY OF WELLINGTON 69KV'	39.5		-0.07731	
/ERE	'CITY OF GIRARD 69KV'	5.911	-0.00072 WERE	'CITY OF WELLINGTON 69KV'	39.5		-0.07668	
'ERE	'CITY OF WELLINGTON 69KV'	4		'GILL ENERGY CENTER 69KV'	75		-0.07846	
/ERE	'EVANS ENERGY CENTER 138KV'	8		'CITY OF WELLINGTON 69KV'	39.5		-0.07435	
'ERE	'GETTY 69KV'	35		'GILL ENERGY CENTER 138KV'	171		-0.05907	
ERE	'CITY OF FREDONIA 69KV'	5.893985		'GILL ENERGY CENTER 138KV'	171		-0.05463	
ERE	'CITY OF GIRARD 69KV'	5.911	-0.00072 WERE	'GILL ENERGY CENTER 138KV'	171		-0.054	
ERE	'CITY OF IOLA 69KV'	13.361	-0.00102 WERE	'GILL ENERGY CENTER 138KV'	171		-0.0543	
ERE	'GETTY 69KV'	35		WACO 138KV	17.96		-0.05381	
/ERE	'NEOSHO ENERGY CENTER 138KV'	40.01758		'GILL ENERGY CENTER 138KV'	171		-0.05423	
/ERE	CITY OF FREDONIA 69KV	5.893985		WACO 138KV	17.96		-0.04937	
/ERE	'CITY OF IOLA 69KV'	13.361	-0.00102 WERE	WACO 138KV	17.96		-0.04904	
/ERE	'EVANS ENERGY CENTER 138KV'	8		'GILL ENERGY CENTER 138KV'	171		-0.05167	
/ERE	'NEOSHO ENERGY CENTER 138KV'	40.01758		'WACO 138KV'	17.96		-0.04897	
/ERE	'EVANS ENERGY CENTER 138KV'	8	0.00161 WERE	'WACO 138KV'	17.96	0.04802	-0.04641	1

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

Upgrade:	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1						
Limiting Facility:	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1						
Direction:	To->From						
Line Outage:	PLEASANT HILL () 345/161/13.8KV TRANSFORMER CK	T 1					
Flowgate:	59223592101PHILL737511307SP						
Date Redispatch Needed:	6/1/07 - 10/1/07						
Season Flowgate Identified:	2007 Summer Peak						
		Aggregate Relief	]				
Reservation	Relief Amount	Amount					
1034307	3.0						
		Maximum	Sink Control		Maximum		Redispatch
Source Control Area	Source	Increment(MW)	GSF Area	Sink	Decrement(MW) GSF	Factor	Amount (MW)
MIPU	'ARIES 161KV'	595		'SOUTH HARPER 161KV'	313.0953 0.078		
MIPU	'GREENWOOD 161KV'	255.8		'SOUTH HARPER 161KV'	313.0953 0.078		
MIPU	'ARIES 161KV'	595	-0.32449 MIPU	'LAKE ROAD 161KV'	35 0.006		
MIPU	'ARIES 161KV'	595	-0.32449 MIPU	'LAKE ROAD 34KV'	92 0.006		
MIPU	'GREENWOOD 161KV'	255.8	-0.32218 MIPU	'LAKE ROAD 161KV'	35 0.006		
MIPU	'GREENWOOD 161KV'	255.8	-0.32218 MIPU	'LAKE ROAD 34KV'	92 0.006		
MIPU	'ARIES 161KV'	595		'SIBLEY 69KV'	45.99999 -0.057		
MIPU	'GREENWOOD 161KV'	255.8	-0.32218 MIPU	'SIBLEY 69KV'	45.99999 -0.057		
MIPU	'ARIES 161KV'	595	-0.32449 MIPU	'SIBLEY 161KV'	230.9347 -0.072		
MIPU	'GREENWOOD 161KV'	255.8	-0.32218 MIPU	'SIBLEY 161KV'	230.9347 -0.072		
MIPU	'RALPH GREEN 69KV'	73.7	-0.16126 MIPU	'SOUTH HARPER 161KV'	313.0953 0.078		
MIPU	'NEVADA 69KV'	20.3	-0.06273 MIPU	'SOUTH HARPER 161KV'	313.0953 0.078		
KACP	'MARSHALL 161KV'	39.1	-0.0355 KACP	'PAOLA COMBUSTION TURBINES 161KV'	34.6272 0.041		
KACP	'MARSHALL 161KV'	39.1	-0.0355 KACP	'BULL CREEK 161KV'	308 0.037		
KACP	'MONTROSE 161KV'	24.32433	-0.02857 KACP	'PAOLA COMBUSTION TURBINES 161KV'	34.6272 0.041		
KACP	'MARSHALL 161KV'	39.1	-0.0355 KACP	'LACYGNE UNIT 345KV'	958 0.032		
MIPU	'NEVADA 69KV'	20.3	-0.06273 MIPU	'LAKE ROAD 161KV'	35 0.006		
MIPU	'NEVADA 69KV'	20.3	-0.06273 MIPU	'LAKE ROAD 34KV'	92 0.006		
KACP	'MONTROSE 161KV'	24.32433	-0.02857 KACP	'BULL CREEK 161KV'	308 0.037		
KACP	'MONTROSE 161KV'	24.32433	-0.02857 KACP	'LACYGNE UNIT 345KV'	958 0.032		
KACP	'MARSHALL 161KV'	39.1	-0.0355 KACP	'IATAN 345KV'	396 0.019		
KACP	'MONTROSE 161KV'	24.32433	-0.02857 KACP	'IATAN 345KV'	396 0.019		
KACP	'MARSHALL 161KV'	39.1	-0.0355 KACP	'HAWTHORN 161KV'	455 0.010		
KACP	'MARSHALL 161KV'	39.1	-0.0355 KACP	'HAWTHORN 161KV'	314 0.010		
SWPA	'TRUMAN 161KV'	78.06458	-0.02902 SWPA	'KEYSTONE DAM 161KV'	59.3624 0.		
SWPA	'TRUMAN 161KV'	78.06458	-0.02902 SWPA	'FORT GIBSON 161KV'	42.37316 0.008	-0.03714	4 81
SWPA	'TRUMAN 161KV'	78.06458	-0.02902 SWPA	'EUFAULA 138KV'	50.96772 0.007		
SWPA	'TRUMAN 161KV'	78.06458		'WEBBERS FALLS 161KV'	38.97531 0.007		
SWPA	'TRUMAN 161KV'	78.06458		'BROKEN BOW 138KV'	93.34087 0.007		
SWPA	'TRUMAN 161KV'	78.06458		'ROBERT S. KERR 161KV'	107.1321 0.006		
SWPA	'TRUMAN 161KV'	78.06458		'OZARK 161KV'	77.95062 0.004		
SWPA	'TRUMAN 161KV'	78.06458	-0.02902 SWPA	'DARDANELLE 161KV'	105.1334 0.002	-0.03176	6 95
SWPA	'TRUMAN 161KV'	78.06458	-0.02902 SWPA	'GREERS FERRY 161KV'	93.34087 0.001	-0.03059	9 99
Maximum Decrement and Max	imum Increment were determine from the Souce and Sink (	Operating Points in t	he study models where limi	ting facility was identified			

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

Jpgrade:	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1								
imiting Facility:	GRANDVIEW EAST - MARTIN CITY 161KV CKT 1								
Direction:	To->From								
ine Outage:	PLEASANT HILL () 345/161/13.8KV TRANSFORMER C	KT 1							
lowgate:	59223592101PHILL737514306SP								
Date Redispatch Needed:	6/1/06 - 10/1/06								
Season Flowgate Identified:	2006 Summer Peak								
		Aggregate Relief							
Reservation	Relief Amount	Amount							
103430	7 1.			1				r.	
	-	Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source		GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
MIPU	'ARIES 161KV'	595			'LAKE ROAD 161KV'	35		-0.33077	
/IPU	'ARIES 161KV'	595			'LAKE ROAD 34KV'	92		-0.33077	
/IPU	'ARIES 161KV'	595			'SOUTH HARPER 161KV'	315		-0.40301	
/IPU	'GREENWOOD 161KV'	251.3248			'LAKE ROAD 161KV'	35	0.006	-0.32848	
/IPU	'GREENWOOD 161KV'	251.3248			'LAKE ROAD 34KV'	92		-0.32848	
/IPU	'GREENWOOD 161KV'	251.3248			'SOUTH HARPER 161KV'	315	0.07824	-0.40072	
/IPU	'ARIES 161KV'	595			'SIBLEY 69KV'	45.99999	-0.05796	-0.26681	
MIPU	'GREENWOOD 161KV'	251.3248			'SIBLEY 69KV'	45.99999	-0.05796	-0.26452	
/IPU	'ARIES 161KV'	595			'SIBLEY 161KV'	231.1575	-0.07333	-0.25144	
MIPU	'GREENWOOD 161KV'	251.3248			'SIBLEY 161KV'	231.1575		-0.24915	
MIPU	'RALPH GREEN 69KV'	73.7			'SOUTH HARPER 161KV'	315		-0.23979	
/IPU	'NEVADA 69KV'	20.3	-0.06304		'SOUTH HARPER 161KV'	315		-0.14128	
KACP	'MARSHALL 161KV'	39.1	-0.03618		'BULL CREEK 161KV'	308	0.03795	-0.07413	
KACP	'MARSHALL 161KV'	39.1	-0.03618		'PAOLA COMBUSTION TURBINES 161KV'	77	0.04189	-0.07807	
KACP	'MARSHALL 161KV'	39.1	-0.03618		'LACYGNE UNIT 345KV'	962	0.03291	-0.06909	
ACP	'MONTROSE 161KV'	28.96063			'PAOLA COMBUSTION TURBINES 161KV'	77		-0.07081	1
/IPU	'NEVADA 69KV'	20.3	-0.06304		'LAKE ROAD 161KV'	35		-0.06904	
ЛIPU	'NEVADA 69KV'	20.3	-0.06304		'LAKE ROAD 34KV'	92		-0.06904	
ACP	'MONTROSE 161KV'	28.96063	-0.02892		'BULL CREEK 161KV'	308	0.03795	-0.06687	
ACP	'MONTROSE 161KV'	28.96063	-0.02892		'LACYGNE UNIT 345KV'	962	0.03291	-0.06183	
ACP	'MARSHALL 161KV'	39.1	-0.03618		'IATAN 345KV'	396	0.01924	-0.05542	
ACP	'MARSHALL 161KV'	39.1	-0.03618		'NORTHEAST 13KV'	16.14502	0.01288	-0.04906	
ACP	'MARSHALL 161KV'	39.1	-0.03618		'HAWTHORN 161KV'	455		-0.04641	2
ACP	'MARSHALL 161KV'	39.1	-0.03618		'HAWTHORN 161KV'	314	0.01023	-0.04641	2
ACP	'MONTROSE 161KV'	28.96063	-0.02892		'IATAN 345KV'	396	0.01924	-0.04816	
ACP	'MONTROSE 161KV'	28.96063	-0.02892		'NORTHEAST 13KV'	16.14502	0.01288	-0.0418	
ACP	'MONTROSE 161KV'	28.96063			'HAWTHORN 161KV'	455		-0.03915	
ACP	'MONTROSE 161KV'	28.96063			'HAWTHORN 161KV'	314	0.01023	-0.03915	
SWPA	'TRUMAN 161KV'	78.80006			'KEYSTONE DAM 161KV'	58.99997	0.01009	-0.03961	2
SWPA	'TRUMAN 161KV'	78.80006			'BROKEN BOW 138KV'	92.79996	0.00732	-0.03684	
SWPA	'TRUMAN 161KV'	78.80006			'OZARK 161KV'	58.19997	0.00504	-0.03456	
SWPA	'TRUMAN 161KV'	78.80006	-0.02952	SWPA	DARDANELLE 161KV	105,1999	0.00327	-0.03279	3

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

Jpgrade:	GRAY TAP - PENSACOLA 69KV CKT 1								
imiting Facility:	GRAY TAP - PENSACOLA 69KV CKT 1 GRAY TAP - PENSACOLA 69KV CKT 1								
irection:	To->From								
ne Outage:	KANSAS - KANSAS TAP 161KV CKT 1								
owgate:	54465544281545165451413108SP								
ate Redispatch Needed:	Starting 2008 6/1 - 10/1 Until EOC								
eason Flowgate Identified:	2008 Summer Peak								
		Aggregate Relief							
eservation	Relief Amount	Amount							
97748	1 (	0.4 0.	4						
		Maximum		Sink Control		Maximum			Redispatch
ource Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW
RDA	'KERR 115KV'	28.		312 GRDA	'PENSACOLA 69KV'	7.59351	0.12968		
RDA	'KERR 161KV'	28.		035 GRDA	'PENSACOLA 69KV'	7.59351	0.12968		
RDA	'SALINA 161KV' ximum Increment were determine from the Souce and Sir	71.3829		035 GRDA	'PENSACOLA 69KV'	7.59351	0.12968	-0.1193	3
ctor = Source GSF - Sink G dispatch Amount = Relief A									
subpaten Amount - Relier A									
lowgate: ate Redispatch Needed: eason Flowgate Identified:	54465544281KANSNAUTO15213108SP Starting 2008 6/1 - 10/1 Until EOC 2008 Summer Peak								
eason Flowgate identified.	2006 Summer Peak	Aggregate Relief	7						
eservation	Relief Amount	Amount							
97748		0.4 0.	4						
		Maximum	·	Sink Control		Maximum			Redispatch
ource Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW
RDA	'KERR 115KV'	28.	5 0.016	612 GRDA	'PENSACOLA 69KV'	7.59351	0.12968	-0.1135	i6
RDA	'KERR 161KV'	28.		035 GRDA	'PENSACOLA 69KV'	7.59351	0.12968	-0.1193	3
DA	'SALINA 161KV'	71.3829	3 0.010	035 GRDA	'PENSACOLA 69KV'	7.59351	0.12968	-0.1193	3
	ximum Increment were determine from the Souce and Sir	nk Operating Points in	the study	models where limi	ting facility was identified.				
actor = Source GSF - Sink G									
Redispatch Amount = Relief A	mount / Factor								
ograde:	GREENSBURG - JUDSON LARGE 115KV CKT 1								
niting Facility: rection:	GREENSBURG - JUDSON LARGE 115KV CKT 1 To->From								
rection: ne Outage:	MULLERGREN - SPEARVILLE 230KV CKT 1								
ie Outage: owgate:	58764587711587795879511106SP								
wgate: ite Redispatch Needed:	6/1/06 - 10/1/06								
ate Redispatch Needed: ason Flowgate Identified:	2006 Summer Peak								
ason nowyate identified.		Aggregate Relief	7						
econ otion	Delief Amount	Aggregate Relier	1						

Season Flowgate Identified:	2006 Summer Peak								
		Aggregate Relief							
Reservation	Relief Amount	Amount							
1035259	2.0	2.0							
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)		Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
WEPL	'HARPER 138KV'	2.15	-0.12929		'GRAY COUNTY WIND FARM 115KV'	40			
WEPL	'HARPER 138KV'	2.15	-0.12929		'JUDSON LARGE 115KV'	112.7696			
WEPL	'NORTH WEST GREAT BEND 115KV'	12.24	-0.0431		'GRAY COUNTY WIND FARM 115KV'	40			
WEPL	'NORTH WEST GREAT BEND 115KV'	12.24	-0.0431		'JUDSON LARGE 115KV'	112.7696			
WEPL	'GREENLEAF 115KV'	10.15	-0.00929		'GRAY COUNTY WIND FARM 115KV'	40	0.2200		
WEPL	'GREENLEAF 115KV'	10.15	-0.00929		'JUDSON LARGE 115KV'	112.7696		-0.23778	
WEPL	'PLAINVILLE 115KV'	5.25	-0.01241		'GRAY COUNTY WIND FARM 115KV'	40	0.2200		
WEPL	'PLAINVILLE 115KV'	5.25	-0.01241		'JUDSON LARGE 115KV'	112.7696			
WEPL	'RUSSELL 115KV'	27.9	-0.03378		'GRAY COUNTY WIND FARM 115KV'	40			
WEPL	'RUSSELL 115KV'	27.9	-0.03378		'JUDSON LARGE 115KV'	112.7696		-0.26227	
WEPL	'SMITH CENTER 115KV'	5.35	-0.018		'GRAY COUNTY WIND FARM 115KV'	40			
WEPL	'SMITH CENTER 115KV'	5.35	-0.018		'JUDSON LARGE 115KV'	112.7696			
WEPL	'NORTH WEST GREAT BEND 115KV'	12.24	-0.0431		'CIMARRON RIVER 115KV'	14.59009		-0.16402	1
WEPL	'NORTH WEST GREAT BEND 115KV'	12.24	-0.0431		'SPEARVILLE WIND 34KV'	101		-0.16427	1
WEPL	'RUSSELL 115KV'	27.9	-0.03378		'CIMARRON RIVER 115KV'	14.59009		-0.1547	1
WEPL	'RUSSELL 115KV'	27.9	-0.03378		'SPEARVILLE WIND 34KV'	101		-0.15495	1
MIDW	'PAWNEE 115KV'	999	-0.09748		'COLBY 115KV'	7.627754	0.04599		1
WIDW	'RICE 115KV'	999	-0.09748		'COLBY 115KV'	7.627754	0.04599		1
WEPL	'SMITH CENTER 115KV'	5.35	-0.018		'CIMARRON RIVER 115KV'	14.59009			1
WEPL	'SMITH CENTER 115KV'	5.35	-0.018		'SPEARVILLE WIND 34KV'	101		-0.13917	1
WEPL	'GREENLEAF 115KV'	10.15	-0.00929		'CIMARRON RIVER 115KV'	14.59009		-0.13021	1
WEPL	'GREENLEAF 115KV'	10.15	-0.00929		'SPEARVILLE WIND 34KV'	101		-0.13046	1
WEPL	'PLAINVILLE 115KV'	5.25	-0.01241		'CIMARRON RIVER 115KV'	14.59009			1
WEPL	'PLAINVILLE 115KV'	5.25	-0.01241		'SPEARVILLE WIND 34KV'	101		-0.13358	1
WEPL	'CIMARRON RIVER 115KV'	32.40991	0.12092		'GRAY COUNTY WIND FARM 115KV'	40	0.2200		
WEPL	'CIMARRON RIVER 115KV'	32.40991	0.12092		'JUDSON LARGE 115KV'	112.7696		-0.10757	1
SUNC	'CITY OF NORTON 115KV'	10.56	0.02137	SUNC	'HOLCOMB 115KV'	269.3544	0.08509	-0.06372	3

 SUNC
 [CITY OF NORTON 115KV]
 10.56
 0.02137
 SUNC
 [HOLCOMB 115KV]

 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
 Sink GSF
 Redispatch Amount = Relief Amount / Factor

Upgrade:	GREENSBURG - JUDSON LARGE 115KV CKT 1				
Limiting Facility:	GREENSBURG - JUDSON LARGE 115KV CKT 1				
Direction:	To->From				
Line Outage:	MULLERGREN - SPEARVILLE 230KV CKT 1				
Flowgate:	58764587711587795879513106FA				
Date Redispatch Needed:	10/1/06 - 12/1/06				
Season Flowgate Identified:	2006 Fall Peak				
× ·		Aggregate Relief	1		
Reservation	Relief Amount	Amount			
1035259	2	.4 2.4			
		Maximum		Sink Control	
Source Control Area	Source	Increment(MW)	GSF	Area	Sink
WEPL	'A. M. MULLERGREN GENERATOR 115KV'	46.54604	-0.04308	WEPL	'GRAY COUNTY WIND FARM 115KV
WEPL	'A. M. MULLERGREN GENERATOR 115KV'	46.54604	-0.04308	WEPL	'JUDSON LARGE 115KV'
WEPL	'NORTH WEST GREAT BEND 115KV'	12.24	-0.04308	WEPL	'GRAY COUNTY WIND FARM 115KV
WEPL	'NORTH WEST GREAT BEND 115KV'	12.24			'JUDSON LARGE 115KV'
WEPL	'RUSSELL 115KV'	27.9	-0.03375	WEPL	'GRAY COUNTY WIND FARM 115KV
WEPL	'RUSSELL 115KV'	27.9	-0.03375	WEPL	'JUDSON LARGE 115KV'
WEPL	'BELOIT 115KV'	9.25	-0.01447	WEPL	'GRAY COUNTY WIND FARM 115KV
WEPL	'BELOIT 115KV'	9.25	-0.01447	WEPL	'JUDSON LARGE 115KV'
WEPL	'CLIFTON 115KV'	70	-0.01058	WEPL	'GRAY COUNTY WIND FARM 115KV
WEPL	'CLIFTON 115KV'	70	-0.01058	WEPL	'JUDSON LARGE 115KV'
WEPL	'GREENLEAF 115KV'	10.15	-0.00925	WEPL	'GRAY COUNTY WIND FARM 115KV
WEPL	'GREENLEAF 115KV'	10.15			'JUDSON LARGE 115KV'
WEPL	'PLAINVILLE 115KV'	5.25			'GRAY COUNTY WIND FARM 115KV
WEPL	'PLAINVILLE 115KV'	5.25	-0.01238	WEPL	'JUDSON LARGE 115KV'
WEPL	'SMITH CENTER 115KV'	5.35			'GRAY COUNTY WIND FARM 115KV
WEPL	'SMITH CENTER 115KV'	5.35			'JUDSON LARGE 115KV'
WEPL	'A. M. MULLERGREN GENERATOR 115KV'	46.54604	-0.04308	WEPL	'SPEARVILLE WIND 34KV'
WEPL	'NORTH WEST GREAT BEND 115KV'	12.24	-0.04308	WEPL	'SPEARVILLE WIND 34KV'
WEPL	'RUSSELL 115KV'	27.9			'SPEARVILLE WIND 34KV'
MIDW	'PAWNEE 115KV'	999			'COLBY 115KV'
MIDW	'RICE 115KV'	999	-0.09747	MIDW	'COLBY 115KV'
WEPL	'BELOIT 115KV'	9.25			'SPEARVILLE WIND 34KV'
WEPL	'CLIFTON 115KV'	70			'SPEARVILLE WIND 34KV'
WEPL	'GREENLEAF 115KV'	10.15			'SPEARVILLE WIND 34KV'
WEPL	'CIMARRON RIVER 115KV'	72	0.12085	WEPL	'GRAY COUNTY WIND FARM 115KV
WEPL	'CIMARRON RIVER 115KV'	72	0.12085	WEPL	JUDSON LARGE 115KV

 
 WEPL
 CLIFTON 115KV
 70

 WEPL
 'GREENLEAF 115KV'
 10.15

 WEPL
 'CIMARRON RIVER 115KV'
 72

 WEPL
 'CIMARRON RIVER 115KV'
 72

 WEPL
 'CIMARRON RIVER 115KV'
 72

 Maximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the Fador = Source GSF - Sink GSF
 Redispatch Amount = Relief Amount / Factor
 study models whe

Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed:	GREENSBURG - JUDSON LARGE 115KV CKT 1 GREENSBURG - JUDSON LARGE 115KV CKT 1 To-From MULLERGREN - SPEARVILLE 230KV CKT 1 5874687711587795679513106SH 6/106 - 10/106 2006 Summer Shoulder								
		Aggregate Relief							
		Amount							
1035259	4.0	4.0							
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
WEPL	'NORTH WEST GREAT BEND 115KV'	12.24	-0.04311	WEPL	'SPEARVILLE WIND 34KV'	101	0.12113	-0.16424	25
WEPL	'RUSSELL 115KV'	27.9	-0.03379	WEPL	'SPEARVILLE WIND 34KV'	101	0.12113	-0.15492	26
WEPL	'CLIFTON 115KV'	44.00903	-0.01063	WEPL	'SPEARVILLE WIND 34KV'	101	0.12113	-0.13176	31
WEPL	'CIMARRON RIVER 115KV'	72	0.12074	WEPL	'GRAY COUNTY WIND FARM 115KV'	40	0.22683	-0.10609	38
	'CIMARRON RIVER 115KV'	72	0.12074		'JUDSON LARGE 115KV'	113.3252	0.22842	-0.10768	38

Maximum

Decrement(MW)

GSF

 60
 0.22688

 51.96809
 0.22688

 51.96809
 0.22688

 51.96809
 0.22688

 51.96809
 0.22847

60 0.22688 51.96809 0.22847 60 0.22688 51.96809 0.22847

 5196809
 0.2247

 60
 0.22683

 51.96809
 0.22487

 60
 0.22683

 51.96809
 0.2247

 60
 0.22683

 51.96809
 0.2247

 60
 0.22687

 51.96809
 0.2247

 60
 0.22647

 61
 0.22647

 101
 0.12117

 101
 0.12117

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 101
 0.12117

 101
 0.12117

 101
 0.22683

 51.96809
 0.22687

Redispatch

Amount (MW)

g

Factor 3 -0.26996 7 -0.27155 3 -0.26996 7 -0.27155 9 0.26092

-0.26063 -0.26222 -0.24135 -0.24294

0.23746 0.23905 0.23613 0.23726 0.23926 0.24085 0.24643 0.16425 0.16425 0.16425 0.15492 0.14345 0.13564 0.13175 0.13072 0.10603 0.010762

 Image: Notice of the study models where limiting facility was identified.

 Factor = Source GSF - Sink GSF

 Redispatch Amount = Relief Amount / Factor

Upgrade: Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed: Season Flowgate Identified: Reservation	GREENSBURG - JUDSON LARGE 115KV CKT 1 GREENSBURG - JUDSON LARGE 115KV CKT 1 To->From MULLERGREN - SPEARVILLE 230KV CKT 1 58764587711587795879513106WP 12/106 - 4/107 2006 Winter Peak Relief Amount	Aggregate Relief Amount							
1035259	8	9 8.9 Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source			Area	Sink		GSF	Factor	Amount (MW)
WEPL	A. M. MULLERGREN GENERATOR 115KV	60.66934	-0.04317		GRAY COUNTY WIND FARM 115KV	Decrement(INIV) 60	0.22675	-0.26992	
WEPL	'A. M. MULLERGREN GENERATOR 115KV'	60.66934	-0.04317		'JUDSON LARGE 115KV'	52.79977	0.22834	-0.27151	
WEPL	'NORTH WEST GREAT BEND 115KV'	12.24	-0.04317		'GRAY COUNTY WIND FARM 115KV'	60	0.22675	-0.26992	
WEPL	'NORTH WEST GREAT BEND 115KV'	12.24	-0.04317		'JUDSON LARGE 115KV'	52.79977	0.22834	-0.27151	
WEPL	'RUSSELL 115KV'	27.9	-0.03384		'GRAY COUNTY WIND FARM 115KV'	60	0.22675	-0.26059	
WEPL	'RUSSELL 115KV'	27.9	-0.03384		'JUDSON LARGE 115KV'	52.79977	0.22834	-0.26218	
WEPL	'CLIFTON 115KV'	70	-0.01067	WEPL	'JUDSON LARGE 115KV'	52.79977	0.22834	-0.23901	
WEPL	CLIFTON 115KV	70	-0.01067	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	0.22675	-0.23742	38 54
WEPL	'A. M. MULLERGREN GENERATOR 115KV'	60.66934	-0.04317	WEPL	'SPEARVILLE WIND 34KV'	101	0.12104	-0.16421	54
WEPL	'RUSSELL 115KV'	27.9	-0.03384	WEPL	'SPEARVILLE WIND 34KV'	101	0.12104	-0.15488	
WEPL	'CLIFTON 115KV'	70	-0.01067	WEPL	'SPEARVILLE WIND 34KV'	101	0.12104	-0.13171	
WEPL	'CIMARRON RIVER 115KV'	72	0.12064	WEPL	'JUDSON LARGE 115KV'	52.79977	0.22834	-0.1077	
WEPL	'CIMARRON RIVER 115KV'	72	0.12064	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	0.22675	-0.10611	84
Maximum Degrament and Max	vimum Increment were determine from the Souce and Sinl	Operating Dainte in th	o otradi cono	أحملا معمطين ماماه	ing facility was identified				

WEPL CIMARRON Maximum Decrement and Maximum Increme Factor = Source GSF - Sink GSF Redispatch Amount = Relief Amount / Factor CIMARRON RIVER 115KV 72 0.12064 WEPL GRAY COUNTY WIND FARM 115KV imum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.

Reservation	Relief Amount	Amount
		Aggregate Relief
Season Flowgate Identified:	2007 April Minimum	
Date Redispatch Needed:	Starting 2007 4/1 - 6/1 Until EOC of Upgrade	
Flowgate:	55942560001559995600111207AP	
Line Outage:	MOORELAND - MOREWOOD SW 138KV CKT 1	
Direction:	From->To	
Limiting Facility:	HAMON BUTLER - MOREWOOD 69KV CKT 1	
Upgrade:	HAMON BUTLER - MOREWOOD 69KV CKT 1	

1023236		1.5							
1032973	0.9	1.5							
		Maximum		Sink Control		Maximum			Redispatch
ource Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MV
KGE	'AES 161KV'	160			'SLEEPING BEAR 34KV'	120		-0.08967	
KGE	'HORSESHOE LAKE 69KV'	16	0.00172		'SLEEPING BEAR 34KV'	120		-0.08855	
KGE	'MCCLAIN 138KV'	520	0.00172		'SLEEPING BEAR 34KV'	120		-0.08855	
KGE	'MUSKOGEE 161KV'	166		OKGE	'SLEEPING BEAR 34KV'	120		-0.08927	
KGE	'MUSKOGEE 161KV'	31		OKGE	'SLEEPING BEAR 34KV'	120		-0.08927	
KGE	'MUSKOGEE 345KV'	714.4385	0.00097		'SLEEPING BEAR 34KV'	120		-0.0893	
KGE	'SEMINOLE 138KV'	507.9516	0.00043		'SLEEPING BEAR 34KV'	120	0.09027	-0.08984	
KGE	'SEMINOLE 345KV'	996.6	0.00092		'SLEEPING BEAR 34KV'	120		-0.08935	
KGE	'TINKER 5G 138KV'	62	0.00166	OKGE	'SLEEPING BEAR 34KV'	120	0.09027	-0.08861	1
KGE	'AES 161KV'	160	0.0006	OKGE	'FPLWND2 34KV'	102	0.08463	-0.08403	5
KGE	'HORSESHOE LAKE 138KV'	380.5	0.00194	OKGE	SLEEPING BEAR 34KV	120	0.09027	-0.08833	ذ
KGE	'HORSESHOE LAKE 138KV'	91	0.00194	OKGE	'SLEEPING BEAR 34KV'	120	0.09027	-0.08833	s
KGE	'HORSESHOE LAKE 138KV'	380	0.00194	OKGE	SLEEPING BEAR 34KV	120	0.09027	-0.08833	ذ
KGE	'MUSKOGEE 161KV'	166	0.001	OKGE	'FPLWND2 34KV'	102	0.08463	-0.08363	5
KGE	'MUSKOGEE 161KV'	31	0.001	OKGE	'FPLWND2 34KV'	102	0.08463	-0.08363	1
KGE	'MUSKOGEE 345KV'	714.4385	0.00097	OKGE	'FPLWND2 34KV'	102	0.08463	-0.08366	ś
KGE	'MUSTANG 138KV'	365.5	0.00244		SLEEPING BEAR 34KV	120	0.09027	-0.08783	i
KGE	'MUSTANG 69KV'	106	0.00321		SLEEPING BEAR 34KV	120	0.09027	-0.08706	
KGE	'ONE OAK 345KV'	336	0.00295		'SLEEPING BEAR 34KV'	120	0.09027	-0.08732	í.
KGE	'REDBUD 345KV'	421.65	0.00223		SLEEPING BEAR 34KV	120		-0.08804	
KGE	'REDBUD 345KV'	900	0.00223	OKGE	'SLEEPING BEAR 34KV'	120	0.09027	-0.08804	i
KGE	SEMINOLE 138KV	507,9516	0.00043		'FPLWND2 34KV'	102		-0.0842	,
KGE	'SEMINOLE 345KV'	996.6	0.00092		'FPLWND2 34KV'	102		-0.08371	
KGE	'SMITH COGEN 138KV'	110	0.00228		SLEEPING BEAR 34KV	120		-0.08799	
KGE	'HORSESHOE LAKE 138KV'	91	0.00194		'FPLWND2 34KV'	102		-0.08269	
KGE	'HORSESHOE LAKE 138KV'	380	0.00194		'FPLWND2 34KV'	102		-0.08269	
KGE	'HORSESHOE LAKE 138KV'	380.5	0.00194		'FPLWND2 34KV'	102		-0.08269	
KGE	HORSESHOE LAKE 69KV	16	0.00172		'FPLWND2 34KV'	102		-0.08291	
KGE	'MCCLAIN 138KV'	520	0.00172		'FPLWND2 34KV'	102		-0.08291	
KGE	'MUSTANG 138KV'	365.5	0.00244		'FPLWND2 34KV'	102		-0.08219	
KGE	'MUSTANG 69KV'	106	0.00321		'FPLWND2 34KV'	102		-0.08142	
KGE	ONE OAK 345KV	336	0.00295		'FPLWND2 34KV'	102		-0.08168	
KGE	'REDBUD 345KV'	900	0.00223		'FPLWND2 34KV'	102			
KGE	'REDBUD 345KV'	421.65	0.00223		'FPLWND2 34KV'	102		-0.0824	
KGE	'SMITH COGEN 138KV'	110	0.00228		'FPLWND2 34KV'	102		-0.08235	
KGE	SOONER 138KV	24,99997	0.00228		SLEEPING BEAR 34KV	102		-0.08347	
KGE	TINKER 5G 138KV	24.99997	0.00166		'FPLWND2 34KV'	120		-0.08297	
KGE	SOONER 138KV	24,99997	0.00100		'FPLWND2 34KV'	102		-0.07783	
KGE	SOUNER 136KV	24.99997 42.7	0.0008		SLEEPING BEAR 34KV	102		-0.06878	
KGE	SOUTH 4TH ST 69KV	42.7			'FPLWND2 34KV'	120		-0.06314	
	imum Increment were determine from the Souce and Sink (					102	0.00403	-0.00314	

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

Jpgrade:	HAMON BUTLER - MOREWOOD 69KV CKT 1							
imiting Facility:	HAMON BUTLER - MOREWOOD 69KV CKT 1 From->To							
ine Outage:	MOORELAND - MOREWOOD SW 138KV CKT 1							
lowgate:	55942560001559995600111406WP							
Date Redispatch Needed:	12/1/06 - 4/1/07							
Season Flowgate Identified:	2006 Winter Peak		1					
Descention	D-II-(Amount	Aggregate Relief						
Reservation 1023236	Relief Amount	Amount 2.7 6.7	4					
1023236		1.0 6.7						
1032975		Maximum	Sink Control		Maximum		1	Redispatch
Source Control Area	Source	Increment(MW)	GSF Area	Sink	Decrement(MW)	GSF		Amount (MW)
OKGE	SEMINOLE 138KV	396.5154		SLEEPING BEAR 34KV	120	0.09028		74
OKGE	'HORSESHOE LAKE 138KV'	380.5		SLEEPING BEAR 34KV	120	0.09028		75
OKGE	HORSESHOE LAKE 138KV	380		SLEEPING BEAR 34KV	120	0.09028		75
OKGE	'HORSESHOE LAKE 138KV'	91		SLEEPING BEAR 34KV	120	0.09028	-0.08834	75
OKGE	'MCCLAIN 138KV'	42		SLEEPING BEAR 34KV	120	0.09028		75
OKGE	'MUSKOGEE 161KV'	31		SLEEPING BEAR 34KV	120	0.09028		75
OKGE	'MUSKOGEE 161KV'	166		SLEEPING BEAR 34KV	120	0.09028	-0.08929	75
OKGE	'SEMINOLE 345KV'	556.0863		SLEEPING BEAR 34KV	120	0.09028		75
OKGE	'TINKER 5G 138KV'	62		SLEEPING BEAR 34KV	120	0.09028	-0.08862	75
OKGE	'MUSTANG 138KV'	365.5		SLEEPING BEAR 34KV	120	0.09028	-0.08784	76
OKGE	'ONE OAK 345KV'	336	0.00294 OKGE	SLEEPING BEAR 34KV	120	0.09028	-0.08734	76
OKGE	'REDBUD 345KV'	421.65	0.00223 OKGE	'SLEEPING BEAR 34KV'	120	0.09028	-0.08805	76
OKGE	'REDBUD 345KV'	900	0.00223 OKGE	'SLEEPING BEAR 34KV'	120	0.09028	-0.08805	76
OKGE	'MUSTANG 69KV'	106	0.00321 OKGE	'SLEEPING BEAR 34KV'	120	0.09028	-0.08707	77
OKGE	'SEMINOLE 138KV'	396.5154	0.00043 OKGE	'FPLWND2 34KV'	102	0.08464	-0.08421	79
OKGE	'MCCLAIN 138KV'	42	0.00172 OKGE	'FPLWND2 34KV'	102	0.08464	-0.08292	80
OKGE	'MUSKOGEE 161KV'	31		'FPLWND2 34KV'	102	0.08464	-0.08365	80
OKGE	'SEMINOLE 345KV'	556.0863		'FPLWND2 34KV'	102	0.08464		80
OKGE	'TINKER 5G 138KV'	62		'FPLWND2 34KV'	102	0.08464	-0.08298	80
OKGE	'CONTINENTAL EMPIRE 138KV'	63		'SLEEPING BEAR 34KV'	120	0.09028		81
OKGE	'HORSESHOE LAKE 138KV'	380		'FPLWND2 34KV'	102	0.08464	-0.0827	81
OKGE	'HORSESHOE LAKE 138KV'	91		'FPLWND2 34KV'	102	0.08464	-0.0827	81
OKGE	'HORSESHOE LAKE 138KV'	380.5		'FPLWND2 34KV'	102	0.08464	-0.0827	81
OKGE	'MUSTANG 138KV'	365.5		'FPLWND2 34KV'	102	0.08464	-0.0822	81
OKGE	'REDBUD 345KV'	900		'FPLWND2 34KV'	102	0.08464	-0.08241	81
OKGE	'REDBUD 345KV'	421.65		'FPLWND2 34KV'	102	0.08464	-0.08241	81
OKGE	'MUSTANG 69KV'	106		'FPLWND2 34KV'	102	0.08464	-0.08143	82
OKGE	'ONE OAK 345KV'	336		'FPLWND2 34KV'	102	0.08464		82
OKGE	'CONTINENTAL EMPIRE 138KV'	63		'FPLWND2 34KV'	102	0.08464		87
OKGE	'SOUTH 4TH ST 69KV'	42.7		'SLEEPING BEAR 34KV'	120	0.09028		97
OKGE	'SOUTH 4TH ST 69KV'	42.7	0.02149 OKGE	'FPLWND2 34KV'	102	0.08464	-0.06315	105

 IOKGE
 ISOUTH 4TH 3T 69KV
 42.7
 0.02149[OKGE
 IPPLWND2 34KV

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

Upgrade:	HAMON BUTLER - MOREWOOD 69KV CKT 1	
Limiting Facility:	HAMON BUTLER - MOREWOOD 69KV CKT 1	
Direction:	From->To	
Line Outage:	MOORELAND - MOREWOOD SW 138KV CKT 1	
Flowgate:	55942560001559995600111407SH	
Date Redispatch Needed:	6/1 - 10/1 Until EOC of Upgrade	
Season Flowgate Identified:	2007 Summer Shoulder	
		Aggregate Relief
Reservation	Relief Amount	Amount

		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source		GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
OKGE	'MUSKOGEE 345KV'	20	0.00098		'SLEEPING BEAR 34KV'	120		-0.08931	
DKGE	'SEMINOLE 138KV'	21.88794	0.00044		'SLEEPING BEAR 34KV'	120		-0.08985	
OKGE	'HORSESHOE LAKE 138KV'	380.5	0.00195		'SLEEPING BEAR 34KV'	120		-0.08834	
OKGE	'HORSESHOE LAKE 138KV'	380	0.00195		'SLEEPING BEAR 34KV'	120		-0.08834	
OKGE	'MCCLAIN 138KV'	42	0.00175		'SLEEPING BEAR 34KV'	120		-0.08854	
OKGE	'MUSKOGEE 161KV'	166		OKGE	'SLEEPING BEAR 34KV'	120		-0.08929	
OKGE	'MUSKOGEE 161KV'	31		OKGE	'SLEEPING BEAR 34KV'	120		-0.08929	
OKGE	'MUSTANG 138KV'	365.5	0.00244		'SLEEPING BEAR 34KV'	120		-0.08785	
OKGE	'MUSTANG 69KV'	55.54833	0.00321		'SLEEPING BEAR 34KV'	120		-0.08708	
OKGE	'ONE OAK 345KV'	274	0.00295		'SLEEPING BEAR 34KV'	120		-0.08734	
OKGE	'REDBUD 345KV'	421.65	0.00224		'SLEEPING BEAR 34KV'	120		-0.08805	
OKGE	'REDBUD 345KV'	900	0.00224		'SLEEPING BEAR 34KV'	120		-0.08805	
OKGE	'TINKER 5G 138KV'	62	0.00167		'SLEEPING BEAR 34KV'	120		-0.08862	
OKGE	'MUSKOGEE 161KV'	31		OKGE	'FPLWND2 34KV'	102		-0.08365	
OKGE	'MUSKOGEE 161KV'	166	0.001	OKGE	'FPLWND2 34KV'	102		-0.08365	
OKGE	'MUSKOGEE 345KV'	20	0.00098		'FPLWND2 34KV'	102		-0.08367	
OKGE	'SEMINOLE 138KV'	21.88794	0.00044	OKGE	'FPLWND2 34KV'	102	0.08465	-0.08421	
OKGE	'SOONER 138KV'	24.99997		OKGE	'SLEEPING BEAR 34KV'	120		-0.08349	
OKGE	'HORSESHOE LAKE 138KV'	380	0.00195		'FPLWND2 34KV'	102		-0.0827	
OKGE	'HORSESHOE LAKE 138KV'	380.5	0.00195	OKGE	'FPLWND2 34KV'	102	0.08465	-0.0827	
OKGE	'MCCLAIN 138KV'	42	0.00175	OKGE	'FPLWND2 34KV'	102	0.08465	-0.0829	j.
OKGE	'MUSTANG 138KV'	365.5	0.00244	OKGE	'FPLWND2 34KV'	102	0.08465	-0.08221	
OKGE	'MUSTANG 69KV'	55.54833	0.00321	OKGE	'FPLWND2 34KV'	102	0.08465	-0.08144	
OKGE	'ONE OAK 345KV'	274	0.00295	OKGE	'FPLWND2 34KV'	102	0.08465	-0.0817	
OKGE	'REDBUD 345KV'	900	0.00224	OKGE	'FPLWND2 34KV'	102	0.08465	-0.08241	
OKGE	'REDBUD 345KV'	421.65	0.00224	OKGE	'FPLWND2 34KV'	102	0.08465	-0.08241	
OKGE	'TINKER 5G 138KV'	62	0.00167	OKGE	'FPLWND2 34KV'	102	0.08465	-0.08298	8
OKGE	'SOONER 138KV'	24.99997	0.0068	OKGE	'FPLWND2 34KV'	102	0.08465	-0.07785	i
OKGE	'SOUTH 4TH ST 69KV'	42.7	0.02149	OKGE	SLEEPING BEAR 34KV	120	0.09029	-0.0688	į
OKGE	'SOUTH 4TH ST 69KV'	42.7	0.02149	OKGE	'FPLWND2 34KV'	102	0.08465	-0.06316	6
Maximum Decrement and Max Factor = Source GSF - Sink G Redispatch Amount = Relief A		Operating Points in the	ne study mo	dels where limi	ting facility was identified.				

Limiting Facility:	HAMON BUTLER - MOREWOOD 69KV CKT 1								
Direction:	From->To								
Line Outage:	MOORELAND - MOREWOOD SW 138KV CKT 1								
Flowgate:	55942560001559995600111407SP								
Date Redispatch Needed:	6/1/07 - 10/1/07								
Season Flowgate Identified:	2007 Summer Peak		1						
		Aggregate Relief							
Reservation	Relief Amount	Amount							
1023236		.4 10.9							
1032973	3	6.5 10.9			F				
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source		GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
OKGE	'MUSKOGEE 161KV'	166	0.00099		'SLEEPING BEAR 34KV'	120		-0.0893	12
OKGE	'TINKER 5G 138KV'	62	0.00167		'SLEEPING BEAR 34KV'	120		-0.08862	
OKGE	'HORSESHOE LAKE 138KV'	291.8271	0.00194	OKGE	'SLEEPING BEAR 34KV'	120	0.09029	-0.08835	12
OKGE	'MCCLAIN 138KV'	42	0.00175	OKGE	'SLEEPING BEAR 34KV'	120	0.09029	-0.08854	12
OKGE	'REDBUD 345KV'	900	0.00224	OKGE	'SLEEPING BEAR 34KV'	120	0.09029	-0.08805	12
OKGE	'REDBUD 345KV'	421.65			'SLEEPING BEAR 34KV'	120	0.09029	-0.08805	12
OKGE	'ONE OAK 345KV'	261	0.00295	OKGE	'SLEEPING BEAR 34KV'	120	0.09029	-0.08734	12
OKGE	'MUSKOGEE 161KV'	166	0.00099	OKGE	'FPLWND2 34KV'	102	0.08465	-0.08366	i 12 i 12 i 12 i 12 i 12 i 12 i 13
OKGE	'HORSESHOE LAKE 138KV'	291.8271	0.00194	OKGE	'FPLWND2 34KV'	102	0.08465	-0.08271	13
OKGE	'TINKER 5G 138KV'	62	0.00167	OKGE	'FPLWND2 34KV'	102	0.08465	-0.08298	13
OKGE	'REDBUD 345KV'	421.65	0.00224	OKGE	'FPLWND2 34KV'	102	0.08465	-0.08241	13
OKGE	'REDBUD 345KV'	900	0.00224	OKGE	'FPLWND2 34KV'	102	0.08465	-0.08241	13 13 13 13
OKGE	'ONE OAK 345KV'	261	0.00295		'FPLWND2 34KV'	102		-0.0817	13
	kimum Increment were determine from the Souce and Sir								

Upgrade:	HAMON BUTLER - MOREWOOD 69KV CKT 1								
Limiting Facility:	HAMON BUTLER - MOREWOOD 69KV CKT 1								
Direction:	From->To								
Line Outage:	MOORELAND - MOREWOOD SW 138KV CKT 1								
Flowgate:	55942560001559995600111407WP								
Date Redispatch Needed:	12/1/07 - 4/1/08								
Season Flowgate Identified:	2007 Winter Peak								
ž.		Aggregate Relief							
Reservation	Relief Amount	Amount							
1023236									
1032973	3 3.2	5.3							
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source		GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
OKGE	'SEMINOLE 138KV'	305.3336	0.00043		'SLEEPING BEAR 34KV'	120			
OKGE	'AES 161KV'	78.99999	0.00058		'SLEEPING BEAR 34KV'	120			
OKGE	'HORSESHOE LAKE 138KV'	380	0.00193		'SLEEPING BEAR 34KV'	120			
OKGE	'HORSESHOE LAKE 138KV'	380.5	0.00193		'SLEEPING BEAR 34KV'	120			
OKGE	'HORSESHOE LAKE 138KV'	91	0.00193		'SLEEPING BEAR 34KV'	120			
OKGE	'MCCLAIN 138KV'	42	0.00173		'SLEEPING BEAR 34KV'	120		-0.08855	
OKGE	'MUSKOGEE 161KV'	166	0.00098		'SLEEPING BEAR 34KV'	120			
OKGE	'MUSKOGEE 161KV'	31	0.00098		'SLEEPING BEAR 34KV'	120			
OKGE	'MUSKOGEE 345KV'	20	0.00096		'SLEEPING BEAR 34KV'	120			
OKGE	'SEMINOLE 345KV'	507.6	0.00091		'SLEEPING BEAR 34KV'	120			
OKGE	'TINKER 5G 138KV'	62	0.00165		'SLEEPING BEAR 34KV'	120			
OKGE	'MUSTANG 138KV'	365.5	0.00242		'SLEEPING BEAR 34KV'	120			
OKGE	'MUSTANG 69KV'	106	0.00319		'SLEEPING BEAR 34KV'	120			
OKGE	'ONE OAK 345KV'	319	0.00294		'SLEEPING BEAR 34KV'	120			
OKGE	'REDBUD 345KV'	900	0.00223		'SLEEPING BEAR 34KV'	120			
OKGE	'REDBUD 345KV'	421.65	0.00223		'SLEEPING BEAR 34KV'	120			
OKGE	'SEMINOLE 138KV'	305.3336	0.00043		'FPLWND2 34KV'	101.9968	0.08464		
OKGE	'MCCLAIN 138KV'	42	0.00173		'FPLWND2 34KV'	101.9968	0.08464		
OKGE	'MUSKOGEE 161KV'	31	0.00098		'FPLWND2 34KV'	101.9968	0.08464		
OKGE	'MUSKOGEE 161KV'	166	0.00098		'FPLWND2 34KV'	101.9968	0.08464		
OKGE	'SEMINOLE 345KV'	507.6	0.00091		'FPLWND2 34KV'	101.9968	0.08464		
OKGE	'SOONER 138KV'	24.99997	0.00678		'SLEEPING BEAR 34KV'	120	0.09028		
OKGE	'TINKER 5G 138KV'	62	0.00165		'FPLWND2 34KV'	101.9968	0.08464		
OKGE	'HORSESHOE LAKE 138KV'	380.5	0.00193		'FPLWND2 34KV'	101.9968	0.08464		
OKGE	'HORSESHOE LAKE 138KV'	380	0.00193		'FPLWND2 34KV'	101.9968	0.08464		
OKGE	'HORSESHOE LAKE 138KV'	91	0.00193		'FPLWND2 34KV'	101.9968			
OKGE	'MUSTANG 138KV'	365.5	0.00242		'FPLWND2 34KV'	101.9968	0.08464		
OKGE	ONE OAK 345KV	319	0.00294		'FPLWND2 34KV'	101.9968			
OKGE	'REDBUD 345KV'	421.65	0.00223		'FPLWND2 34KV'	101.9968	0.08464		
OKGE	'REDBUD 345KV'	900	0.00223		'FPLWND2 34KV'	101.9968			
OKGE	'MUSTANG 69KV'	106	0.00319		'FPLWND2 34KV'	101.9968	0.08464		
OKGE	SOONER 138KV	24.99997	0.00678		'FPLWND2 34KV'	101.9968	0.08464		
OKGE	'SOUTH 4TH ST 69KV'	42.7	0.02148		'SLEEPING BEAR 34KV'	120	0.09028		
OKGE	'SOUTH 4TH ST 69KV'	42.7	0.02148		'FPLWND2 34KV'	101.9968	0.08464	-0.06316	i

 DOGE
 SOUTHATEST SKV
 42.7
 0.02148 [ORGE
 IPPUNID2
 34KV

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

Upgrade:	HAMON BUTLER - MOREWOOD 69KV CKT 1				
Limiting Facility:	HAMON BUTLER - MOREWOOD 69KV CKT 1				
Direction:	From->To				
Line Outage:	MOORELAND - MOREWOOD SW 138KV CKT 1				
Flowgate:	55942560001559995600114206SP				
Date Redispatch Needed:	6/1/06 - 10/1/06				
Season Flowgate Identified:	2006 Summer Peak		_		
		Aggregate Relief			
Reservation	Relief Amount	Amount			
1032973	7.	2 7.2			
1		Maximum		Sink Control	
Source Control Area	Source	Increment(MW)	GSF	Area	Sink
OKGE	'MUSKOGEE 161KV'	166	0.001	OKGE	'SLEEPING BEAR 34KV'
OKGE	'MUSKOGEE 161KV'	31	0.001	OKGE	'SLEEPING BEAR 34KV'
OKGE	'HORSESHOE LAKE 138KV'	380.5	0.00194	OKGE	'SLEEPING BEAR 34KV'
OKGE	'HORSESHOE LAKE 138KV'	337.7	0.00194	OKGE	'SLEEPING BEAR 34KV'
OKGE	'MCCLAIN 138KV'	42	0.00178	OKGE	'SLEEPING BEAR 34KV'
OKGE	'REDBUD 345KV'	421.65	0.00226	OKGE	'SLEEPING BEAR 34KV'
OKGE	'REDBUD 345KV'	253	0.00226	OKGE	'SLEEPING BEAR 34KV'
OKGE	'MUSTANG 138KV'	142.3571	0.00252	OKGE	'SLEEPING BEAR 34KV'
OKGE	'ONE OAK 345KV'	261	0.00297	OKGE	SLEEPING BEAR 34KV
OKGE	'MUSKOGEE 161KV'	166	0.001	OKGE	'FPLWND2 34KV'
OKGE	'MUSKOGEE 161KV'	31	0.001	OKGE	'FPLWND2 34KV'
OKGE	'HORSESHOE LAKE 138KV'	337.7	0.00194	OKGE	'FPLWND2 34KV'
OKGE	'HORSESHOE LAKE 138KV'	380.5	0.00194	OKGE	'FPLWND2 34KV'
OKGE	'MCCLAIN 138KV'	42	0.00178	OKGE	'FPLWND2 34KV'
OKGE	'MUSTANG 138KV'	142.3571	0.00252	OKGE	'FPLWND2 34KV'
OKGE	'REDBUD 345KV'	253	0.00226	OKGE	'FPLWND2 34KV'
OKGE	'REDBUD 345KV'	421.65	0.00226	OKGE	'FPLWND2 34KV'
OKGE	'ONE OAK 345KV'	261	0.00297	OKGE	'FPLWND2 34KV'
OKGE	'CONTINENTAL EMPIRE 138KV'	63	0.00765	OKGE	SLEEPING BEAR 34KV
OKGE	CONTINENTAL EMPIRE 138KV	63	0.00765	OKGE	'FPLWND2 34KV'

 OKGE
 CONTINENTAL EMPIRE 138KV
 63
 0.00765
 OKGE
 FPLWND2 34KV

 OKGE
 'SOUTH 4TH ST 69KV'
 42.7
 0.02113
 OKGE
 'SLEEPING BEAR 34KV'

 OKGE
 'SOUTH 4TH ST 69KV'
 42.7
 0.02113
 OKGE
 'SLEEPING BEAR 34KV'

 OKGE
 'SOUTH 4TH ST 69KV'
 42.7
 0.02113
 OKGE
 'FPLWND2 34KV'

 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

Redispatch

Amount (MW)

Factor -0.08519 -0.08425 -0.08425 -0.08441 -0.08393 -0.08393 -0.08393 -0.08367 -0.08322 -0.08163 -0.08163 -0.08169

-0.08163 -0.08069 -0.08085 -0.08085 -0.08037 -0.08037 -0.08037 -0.08037 -0.07966 -0.07854 -0.07498 -0.06506 -0.0615

Maximum

Decrement(MW)

Upgrade:	IODINE - WOODWARD 138kV CKT 1				
Limiting Facility:	MOORELAND 138/69KV TRANSFORMER CKT 1				
Direction:	To->From				
Line Outage:	FPL SWITCH - MOORELAND 138KV CKT 1				
Flowgate:	55995559991559995578514106SH				
Date Redispatch Needed:	6/1/06 - 10/1/06				
Season Flowgate Identified:	2006 Summer Shoulder				
×		Aggregate Relief	1		
Reservation	Relief Amount	Amount			
1032973	11.0	11.0	1		
		Maximum		Sink Control	
Source Control Area	Source	Increment(MW)	GSF	Area	Sink
OKGE	'CONTINENTAL EMPIRE 138KV'	63	-0.00055	OKGE	'FPLWND2 34KV'
OKGE	'CONTINENTAL EMPIRE 138KV'	63	-0.00055		'SLEEPING BEAR 34KV'
OKGE	'HORSESHOE LAKE 138KV'	91	0.00027		'FPLWND2 34KV'
OKGE	'HORSESHOE LAKE 138KV'	380	0.00027	OKGE	'SLEEPING BEAR 34KV'
OKGE	'HORSESHOE LAKE 138KV'	380.5	0.00027		'SLEEPING BEAR 34KV'
OKGE	'HORSESHOE LAKE 138KV'	91	0.00027		'SLEEPING BEAR 34KV'
OKGE	'HORSESHOE LAKE 69KV'	16	0.00027	OKGE	'FPLWND2 34KV'
OKGE	'HORSESHOE LAKE 69KV'	16	0.00027	OKGE	'SLEEPING BEAR 34KV'
OKGE	'MCCLAIN 138KV'	42	0.00044		'FPLWND2 34KV'
OKGE	'MCCLAIN 138KV'	42	0.00044	OKGE	'SLEEPING BEAR 34KV'
OKGE	'MUSKOGEE 161KV'	31	0.00004	OKGE	'FPLWND2 34KV'
OKGE	'MUSKOGEE 161KV'	166	0.00004		'FPLWND2 34KV'
OKGE	'MUSKOGEE 161KV'	166	0.00004		'SLEEPING BEAR 34KV'
OKGE	'MUSKOGEE 161KV'	31	0.00004		'SLEEPING BEAR 34KV'
OKGE	'MUSKOGEE 345KV'	20	0.00006	OKGE	'FPLWND2 34KV'
OKGE	'MUSKOGEE 345KV'	20	0.00006		'SLEEPING BEAR 34KV'
OKGE	'MUSTANG 138KV'	365.5	0.00044	OKGE	'SLEEPING BEAR 34KV'
OKGE	'MUSTANG 69KV'	106	0.00049	OKGE	'FPLWND2 34KV'
OKGE	'MUSTANG 69KV'	106	0.00049		'SLEEPING BEAR 34KV'
OKGE	'ONE OAK 345KV'	236	0.00015		'SLEEPING BEAR 34KV'
OKGE	'REDBUD 345KV'	460	0.00017		'FPLWND2 34KV'
OKGE	'REDBUD 345KV'	421.65	0.00017	OKGE	'FPLWND2 34KV'
OKGE	'REDBUD 345KV'	460	0.00017		'SLEEPING BEAR 34KV'
OKGE	'REDBUD 345KV'	421.65	0.00017	OKGE	'SLEEPING BEAR 34KV'
OKGE	'SEMINOLE 138KV'	46.75327	0.00023	OKGE	'SLEEPING BEAR 34KV'

 
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 OKGE OKGE OKGE OKGE SEMINOLE 138KV' SEMINOLE 345KV' SEMINOLE 345KV' SOONER 138KV' SOONER 138KV' 46.75327 0.00023 OKGE 406.08 0.00023 OKGE 406.08 0.00023 OKGE 24.99997 -0.00038 OKGE 24.99997 -0.00038 OKGE SLEEPING BEAR 34KV FPLWND2 34KV SLEEPING BEAR 34KV FPLWND2 34KV SLEEPING BEAR 34KV OKGE SOUTH AT OKGE 'SOUTH ATH OKGE SOUTH ATH OKGE TINKER 5G OKGE TINKER 5G Maximum Decrement and Maximum Incremer Factor = Source GSF - Sink GSF Redispatch Amount = Relief Amount / Factor 
 SOUTH 4TH ST 69KV
 4.27
 -0.00198
 OKG8

 SOUTH 4TH ST 69KV
 4.2.7
 -0.00198
 OKG6

 TNKER 5G 138KV
 62
 0.0003
 OKG6

 TINKER 5G 138KV
 62
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 OKG6

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 62
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 OKG6
 SLEEPING BEAR 34KV SLEEPING BEAR 34KV 'FPLWND2 34KV' 'SLEEPING BEAR 34KV' SLEEPING BEAR 34KV' limiting facility was identified. 
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Jpgrade: imiting Facility:	IODINE - WOODWARD 138kV CKT 1 MOORELAND 138/69KV TRANSFORMER CKT 1								
Direction:	To->From								
ine Outage:	FPL SWITCH - MOORELAND 138KV CKT 1								
lowgate:	55995559991559995578514306FA								
Date Redispatch Needed:	10/1/06 - 12/1/06								
Season Flowgate Identified:	2006 Fall Peak								
		Aggregate Relief	]						
Reservation	Relief Amount	Amount							
1032973	20	.5 20.5							
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
DKGE	'CONTINENTAL EMPIRE 138KV'	63			'FPLWND2 34KV'	102		-0.50514	
DKGE	'CONTINENTAL EMPIRE 138KV'	63			'SLEEPING BEAR 34KV'	120		-0.50514	
DKGE	'HORSESHOE LAKE 138KV'	380	0.00027		'FPLWND2 34KV'	102		-0.50432	
DKGE	'HORSESHOE LAKE 138KV'	380.5	0.00027		'FPLWND2 34KV'	102	0.50459	-0.50432	
DKGE	'HORSESHOE LAKE 138KV'	91	0.00027		'FPLWND2 34KV'	102		-0.50432	
DKGE	'HORSESHOE LAKE 138KV'	380.5	0.00027		'SLEEPING BEAR 34KV'	120		-0.50432	
DKGE	'HORSESHOE LAKE 138KV'	380	0.00027		'SLEEPING BEAR 34KV'	120		-0.50432	
DKGE	'HORSESHOE LAKE 138KV'	91	0.00027		'SLEEPING BEAR 34KV'	120		-0.50432	
DKGE	'HORSESHOE LAKE 69KV'	16			'FPLWND2 34KV'	102		-0.50433	
DKGE	'HORSESHOE LAKE 69KV'	16			'SLEEPING BEAR 34KV'	120		-0.50433	
DKGE	'MCCLAIN 138KV'	42			'FPLWND2 34KV'	102		-0.50415	
DKGE	'MCCLAIN 138KV'	42			'SLEEPING BEAR 34KV'	120		-0.50415	
DKGE	'MUSKOGEE 161KV'	166	0.00004		'FPLWND2 34KV'	102		-0.50455	
DKGE	'MUSKOGEE 161KV'	31	0.00004		'FPLWND2 34KV'	102		-0.50455	
DKGE	'MUSKOGEE 161KV'	166	0.00004		'SLEEPING BEAR 34KV'	120		-0.50455	
DKGE	'MUSKOGEE 161KV'	31	0.00004		'SLEEPING BEAR 34KV'	120		-0.50455	
DKGE	'MUSKOGEE 345KV'	20	0.00006		'FPLWND2 34KV'	102		-0.50453	
DKGE	'MUSKOGEE 345KV'	20	0.00006		'SLEEPING BEAR 34KV'	120		-0.50453	
DKGE	'MUSTANG 138KV'	365.5	0.00044		'FPLWND2 34KV'	102	0.50459	-0.50415	
DKGE	'MUSTANG 138KV'	365.5	0.00044		'SLEEPING BEAR 34KV'	120		-0.50415	
OKGE	'MUSTANG 69KV'	106	0.00049		'FPLWND2 34KV'	102		-0.5041	
DKGE	'MUSTANG 69KV'	106	0.00049		SLEEPING BEAR 34KV	120		-0.5041	
DKGE DKGE	ONE OAK 345KV	236	0.00015		'FPLWND2 34KV'	102		-0.50444	
DKGE	'ONE OAK 345KV' 'REDBUD 345KV'	421.65	0.00012		'SLEEPING BEAR 34KV' 'FPLWND2 34KV'	120		-0.50444	
DKGE	REDBUD 345KV	421.05	0.00017		'FPLWND2 34KV'	102		-0.50442	
DKGE	REDBUD 345KV	900	0.00017		SLEEPING BEAR 34KV	102		-0.50442	
DKGE	REDBUD 345KV	421.65	0.00017		SLEEPING BEAR 34KV	120		-0.50442	
DKGE	SEMINOLE 138KV	262.361	0.00017		'FPLWND2 34KV'	120		-0.50442	
DKGE	SEMINOLE 138KV	262.361	0.00023		SLEEPING BEAR 34KV	102		-0.50436	
DKGE	SEMINOLE 136KV	202.301	0.00023		'FPLWND2 34KV'	120		-0.50436	
DKGE	SEMINOLE 345KV	507.6	0.00023		SLEEPING BEAR 34KV	102		-0.50436	
KGE	SOONER 138KV	24.99997	-0.00023		'FPLWND2 34KV'	120		-0.50436	
DKGE	SOONER 138KV	24.99997	-0.00038		SLEEPING BEAR 34KV	102		-0.50497	
KGE	SOUTH 4TH ST 69KV	24.99997 42.7	-0.00199		'FPLWND2 34KV'	120		-0.50497	
KGE	SOUTH 4TH ST 69KV	42.7	-0.00199		SLEEPING BEAR 34KV	102		-0.50658	
KGE	TINKER 5G 138KV	42.7		OKGE	'FPLWND2 34KV'	120	0.50459	-0.50658	
KGE	TINKER 5G 138KV	62		OKGE	SLEEPING BEAR 34KV	102		-0.50429	

Maximum

Decrement(MW)

Redispatch

Amount (MW)

 Factor

 -0.50514

 -0.50514

 -0.50514

 -0.50514

 -0.50432

 -0.50432

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-0.50657 -0.50657 -0.50429 -0.50429

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

Jpgrade: imiting Facility:	IODINE - WOODWARD 138kV CKT 1 MOORELAND - WOODWARD 69KV CKT 1										
Direction:	To->From										
ine Outage:	FPL SWITCH - MOORELAND 138KV CKT 1										
lowgate:	55995560961559995578514106FA										
Date Redispatch Needed:	10/1/06 - 12/1/06										
Season Flowgate Identified:	2006 Fall Peak										
		Aggregate Relief									
Reservation	Relief Amount	Amount									
103297	3	21.7 21	.7								
		Maximum			Sink Control		Maximum				Redispatch
Source Control Area	Source	Increment(MW)	GSF		Area	Sink	Decrement(MW			Factor	Amount (MW)
KGE	'CONTINENTAL EMPIRE 138KV'		-0.0		OKGE	'FPLWND2 34KV'			0459	-0.50514	
KGE	'CONTINENTAL EMPIRE 138KV'					'SLEEPING BEAR 34KV'			0459	-0.50514	
KGE	'HORSESHOE LAKE 138KV'	380			OKGE	'FPLWND2 34KV'			0459	-0.50432	
KGE	'HORSESHOE LAKE 138KV'	3			OKGE	'FPLWND2 34KV'			0459	-0.50432	
KGE	'HORSESHOE LAKE 138KV'				OKGE	'FPLWND2 34KV'			0459	-0.50432	1
KGE	'HORSESHOE LAKE 138KV'				OKGE	'SLEEPING BEAR 34KV'			0459	-0.50432	1
KGE	'HORSESHOE LAKE 138KV'				OKGE	'SLEEPING BEAR 34KV'			0459	-0.50432	1
KGE	'HORSESHOE LAKE 138KV'	380			OKGE	'SLEEPING BEAR 34KV'			0459	-0.50432	
KGE	'HORSESHOE LAKE 69KV'					'FPLWND2 34KV'		102 0.5	0459	-0.50433	1
KGE	'HORSESHOE LAKE 69KV'				OKGE	'SLEEPING BEAR 34KV'			0459	-0.50433	1
KGE	'MCCLAIN 138KV'				OKGE	'FPLWND2 34KV'			0459	-0.50415	1
KGE	'MCCLAIN 138KV'		12 0.0	0044	OKGE	'SLEEPING BEAR 34KV'		120 0.5	0459	-0.50415	1
KGE	'MUSKOGEE 161KV'				OKGE	'FPLWND2 34KV'			0459	-0.50455	1
KGE	'MUSKOGEE 161KV'			0004	OKGE	'FPLWND2 34KV'			0459	-0.50455	
KGE	'MUSKOGEE 161KV'	10	66 0.0	0004	OKGE	'SLEEPING BEAR 34KV'		120 0.5	0459	-0.50455	í.
KGE	'MUSKOGEE 161KV'		31 0.0		OKGE	'SLEEPING BEAR 34KV'			0459	-0.50455	1
KGE	'MUSKOGEE 345KV'		20 0.0	0006	OKGE	'FPLWND2 34KV'		102 0.5	0459	-0.50453	1
KGE	'MUSKOGEE 345KV'	:			OKGE	'SLEEPING BEAR 34KV'		120 0.5	0459	-0.50453	í.
KGE	'MUSTANG 138KV'	365			OKGE	'FPLWND2 34KV'			0459	-0.50415	í.
KGE	'MUSTANG 138KV'	365			OKGE	'SLEEPING BEAR 34KV'		120 0.5	0459	-0.50415	í.
KGE	'MUSTANG 69KV'	10			OKGE	'FPLWND2 34KV'			0459	-0.5041	í.
KGE	'MUSTANG 69KV'	1	0.0	0049	OKGE	'SLEEPING BEAR 34KV'		120 0.5	0459	-0.5041	í
KGE	'ONE OAK 345KV'	2			OKGE	'FPLWND2 34KV'			0459	-0.50444	Í
KGE	'ONE OAK 345KV'	2	36 0.0	0015	OKGE	'SLEEPING BEAR 34KV'		120 0.5	0459	-0.50444	í.
KGE	'REDBUD 345KV'	9	0.0	0017	OKGE	'FPLWND2 34KV'		102 0.5	0459	-0.50442	í
KGE	'REDBUD 345KV'	421.0	65 0.0	0017	OKGE	'FPLWND2 34KV'		102 0.5	0459	-0.50442	
KGE	'REDBUD 345KV'	9			OKGE	'SLEEPING BEAR 34KV'			0459	-0.50442	
KGE	'REDBUD 345KV'	421.0		0017	OKGE	'SLEEPING BEAR 34KV'		120 0.5	0459	-0.50442	í l
KGE	'SEMINOLE 138KV'	262.15	18 0.0		OKGE	'FPLWND2 34KV'			0459	-0.50436	
KGE	'SEMINOLE 138KV'	262.15			OKGE	'SLEEPING BEAR 34KV'		120 0.5	0459	-0.50436	
KGE	'SEMINOLE 345KV'	507			OKGE	'FPLWND2 34KV'		102 0.5	0459	-0.50436	í l
KGE	'SEMINOLE 345KV'	507			OKGE	'SLEEPING BEAR 34KV'			0459	-0.50436	
KGE	SOONER 138KV	24.9999			OKGE	'FPLWND2 34KV'			0459	-0.50497	
KGE	SOONER 138KV	24.9999			OKGE	SLEEPING BEAR 34KV			0459	-0.50497	
KGE	SOUTH 4TH ST 69KV	42			OKGE	'FPLWND2 34KV'			0459	-0.50658	í.
KGE	SOUTH 4TH ST 69KV	42			OKGE	SLEEPING BEAR 34KV			0459	-0.50658	í.
KGE	'TINKER 5G 138KV'				OKGE	'FPLWND2 34KV'			0459	-0.50429	í
KGE	TINKER 5G 138KV				OKGE	SLEEPING BEAR 34KV			0459	-0.50429	

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

lpgrade: imiting Facility:	IODINE - WOODWARD 138kV CKT 1 MOORELAND - WOODWARD 69KV CKT 1								
Virection:	To->From								
ine Outage:	FPL SWITCH - MOORELAND 138KV CKT 1								
lowgate:	55995560961559995578514106SH								
ate Redispatch Needed:	6/1/06 - 10/1/06								
eason Flowgate Identified:	2006 Summer Shoulder								
cason nowgate identified.		Aggregate Relief	1						
eservation	Relief Amount	Amount							
1032973		4.1 14.1							
		Maximum		Sink Control		Maximum			Redispatch
ource Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
KGE	'CONTINENTAL EMPIRE 138KV'	63	-0.00055	OKGE	'FPLWND2 34KV'	102	0.50459	-0.50514	i i
KGE	'CONTINENTAL EMPIRE 138KV'	63	-0.00055	OKGE	'SLEEPING BEAR 34KV'	120	0.50459	-0.50514	÷
KGE	'HORSESHOE LAKE 138KV'	91			'FPLWND2 34KV'	102	0.50459	-0.50432	2
KGE	'HORSESHOE LAKE 138KV'	380.5		OKGE	'SLEEPING BEAR 34KV'	120		-0.50432	
KGE	'HORSESHOE LAKE 138KV'	91			'SLEEPING BEAR 34KV'	120		-0.50432	
KGE	'HORSESHOE LAKE 138KV'	380			'SLEEPING BEAR 34KV'	120	0.50459	-0.50432	2
KGE	'HORSESHOE LAKE 69KV'	16	0.00027	OKGE	'FPLWND2 34KV'	102		-0.50432	2
(GE	'HORSESHOE LAKE 69KV'	16			'SLEEPING BEAR 34KV'	120	0.50459	-0.50432	2
KGE	'MCCLAIN 138KV'	42	0.00044	OKGE	'FPLWND2 34KV'	102	0.50459	-0.50415	ذ
KGE	'MCCLAIN 138KV'	42	0.00044	OKGE	'SLEEPING BEAR 34KV'	120	0.50459	-0.50415	i.
KGE	'MUSKOGEE 161KV'	166			'FPLWND2 34KV'	102	0.50459	-0.50455	ز
KGE	'MUSKOGEE 161KV'	31			'FPLWND2 34KV'	102		-0.50455	
KGE	'MUSKOGEE 161KV'	31			'SLEEPING BEAR 34KV'	120		-0.50455	i
KGE	'MUSKOGEE 161KV'	166			'SLEEPING BEAR 34KV'	120	0.50459	-0.50455	i.
KGE	'MUSKOGEE 345KV'	20			'FPLWND2 34KV'	102		-0.50453	i .
KGE	'MUSKOGEE 345KV'	20			'SLEEPING BEAR 34KV'	120		-0.50453	ذ
KGE	'MUSTANG 138KV'	365.5			'SLEEPING BEAR 34KV'	120	0.50459	-0.50415	i.
KGE	'MUSTANG 69KV'	106			'FPLWND2 34KV'	102		-0.5041	1
KGE	'MUSTANG 69KV'	106			'SLEEPING BEAR 34KV'	120	0.50459	-0.5041	1
KGE	'ONE OAK 345KV'	236			'SLEEPING BEAR 34KV'	120	0.50459	-0.50444	i i
KGE	'REDBUD 345KV'	421.65			'FPLWND2 34KV'	102		-0.50442	
KGE	'REDBUD 345KV'	460	0.00017	OKGE	'FPLWND2 34KV'	102	0.50459	-0.50442	2
KGE	'REDBUD 345KV'	421.65			'SLEEPING BEAR 34KV'	120	0.50459	-0.50442	2
KGE	'REDBUD 345KV'	460			'SLEEPING BEAR 34KV'	120		-0.50442	
GE	'SEMINOLE 138KV'	46.75327	0.00023		'SLEEPING BEAR 34KV'	120	0.50459	-0.50436	
KGE	'SEMINOLE 345KV'	406.08			'FPLWND2 34KV'	102		-0.50436	
KGE	'SEMINOLE 345KV'	406.08			'SLEEPING BEAR 34KV'	120	0.50459	-0.50436	
KGE	'SOONER 138KV'	24.99997	-0.00038		'FPLWND2 34KV'	102		-0.50497	/
GE	'SOONER 138KV'	24.99997	-0.00038		'SLEEPING BEAR 34KV'	120		-0.50497	
(GE	'SOUTH 4TH ST 69KV'	42.7			'FPLWND2 34KV'	102		-0.50657	
KGE	'SOUTH 4TH ST 69KV'	42.7	-0.00198	OKGE	'SLEEPING BEAR 34KV'	120	0.50459	-0.50657	1
KGE	'TINKER 5G 138KV'	62		OKGE	'FPLWND2 34KV'	102		-0.50429	3
KGE	'TINKER 5G 138KV'	62	0.0003	OKGE	'SLEEPING BEAR 34KV'	120	0.50459	-0.50429	j l
	kimum Increment were determine from the Souce and Si								

Upgrade:	IODINE - WOODWARD 138kV CKT 1								
Limiting Facility:	MOORELAND - WOODWARD 69KV CKT 1								
Direction:	To->From								
Line Outage:	FPL SWITCH - MOORELAND 138KV CKT 1								
Flowgate:	55995560961559995578514406SP								
Date Redispatch Needed:	6/1/06 - 10/1/06								
Season Flowgate Identified:	2006 Summer Peak								
		Aggregate Reli	ef						
Reservation	Relief Amount	Amount							
1032973		1.1	1.1						
		Maximum		S	Sink Control		Maximum		
Source Control Area	Source	Increment(MW			Area	Sink	Decrement(MW)	GSF	Factor
OKGE	'CONTINENTAL EMPIRE 138KV'			.00055 (		'FPLWND2 34KV'	101.996		
OKGE	'CONTINENTAL EMPIRE 138KV'			.00055 (		'SLEEPING BEAR 34KV'	11		
OKGE	'HORSESHOE LAKE 138KV'			.00027 (		'FPLWND2 34KV'	101.996		
OKGE	'HORSESHOE LAKE 138KV'	3	37.7 0	.00027 (	OKGE	'FPLWND2 34KV'	101.996	0.5045	9 -0.50
OKGE	'HORSESHOE LAKE 138KV'			.00027 (		'SLEEPING BEAR 34KV'	1:		
OKGE	'HORSESHOE LAKE 138KV'	3	30.5 0	.00027 (	OKGE	'SLEEPING BEAR 34KV'	1:	0.5045	9 -0.50
OKGE	'MCCLAIN 138KV'		42 0	.00044 (	OKGE	'FPLWND2 34KV'	101.996	0.5045	9 -0.50
OKGE	'MCCLAIN 138KV'			.00044 (		SLEEPING BEAR 34KV	1:	0.5045	9 -0.50
OKGE	'MUSKOGEE 161KV'			.00004 (		'FPLWND2 34KV'	101.996		
OKGE	'MUSKOGEE 161KV'		166 0	.00004 (	OKGE	'FPLWND2 34KV'	101.996	0.5045	9 -0.50
OKGE	'MUSKOGEE 161KV'			.00004 (		SLEEPING BEAR 34KV	1:	0.5045	9 -0.50
OKGE	'MUSKOGEE 161KV'			.00004 (		SLEEPING BEAR 34KV	1:		
OKGE	'MUSKOGEE 345KV'		20 0	.00006 (	OKGE	'FPLWND2 34KV'	101.996	0.5045	9 -0.50
OKGE	'MUSKOGEE 345KV'			.00006 (		SLEEPING BEAR 34KV	1:	0.5045	9 -0.50
OKGE	'MUSTANG 138KV'	144.	278 0	.00044 (	OKGE	'FPLWND2 34KV'	101.996	0.5045	9 -0.50
OKGE	'MUSTANG 138KV'	144.		.00044 (		'SLEEPING BEAR 34KV'	1:		
OKGE	'ONE OAK 345KV'		261 0	.00015 (	OKGE	'FPLWND2 34KV'	101.996	0.5045	9 -0.50
OKGE	'ONE OAK 345KV'			.00015 (		SLEEPING BEAR 34KV	1:	0.5045	9 -0.50
OKGE	'REDBUD 345KV'			.00017 (		'FPLWND2 34KV'	101.996		
OKGE	'REDBUD 345KV'			.00017 (		'FPLWND2 34KV'	101.996	0.5045	
OKGE	'REDBUD 345KV'		253 0	.00017 (	OKGE	SLEEPING BEAR 34KV	1:	0.5045	9 -0.50
OKGE	'REDBUD 345KV'	42		.00017 (		SLEEPING BEAR 34KV	1:	0.5045	9 -0.50
OKGE	'SEMINOLE 138KV'	20.41		.00023 (		'FPLWND2 34KV'	101.996		
OKGE	'SEMINOLE 138KV'	20.41	733 0	.00023 (	OKGE	SLEEPING BEAR 34KV	1:	0.5045	9 -0.50
OKGE	'SOONER 138KV'	24.99		.00038 (		'FPLWND2 34KV'	101.996		
OKGE	'SOONER 138KV'	24.99		.00038 (		'SLEEPING BEAR 34KV'	1:	0.5045	9 -0.50
OKGE	'SOUTH 4TH ST 69KV'			.00198 0	OKGE	'FPLWND2 34KV'	101.996	0.5045	9 -0.50
OKGE	'SOUTH 4TH ST 69KV'		12.7 -0	.00198 (	OKGE	SLEEPING BEAR 34KV	1:	0.5045	9 -0.50
OKGE	'TINKER 5G 138KV'		62	0.0003 0	OKGE	'FPLWND2 34KV'	101.996	0.5045	9 -0.50
OKGE	'TINKER 5G 138KV'		62	0.0003	OKGE	'SI FEPING BEAR 34KV'	1*	0.5045	9 -0.50

 
 OKSE
 SOUTH 4TH ST 69KV
 42.7
 -0.001

 OKSE
 SOUTH 4TH ST 69KV
 42.7
 -0.001

 OKSE
 TINKER 5G 138KV
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 TINKER 5G 138KV
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 TINKER 5G 138KV
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 Factor = Source SFs - Sink GSF
 study
 62
 8.00

 Radispatch Amount = Relief Amount / Factor
 62
 0.00
 100
 0.00198 OKGE SLEEPING B 0.0003 OKGE SPLWND2 3-0.0003 OKGE SLEEPING B e study models where limiting facility was

	IODINE - WOODWARD 138kV CKT 1				
	WOODWARD - WOODWARD 69KV CKT 1				
	From->To				
ine Outage:	FPL SWITCH - MOORELAND 138KV CKT 1				
Flowgate:	56096547821559995578511106SP				
Date Redispatch Needed:	6/1/06 - 10/1/06				
Season Flowgate Identified:	2006 Summer Peak				
		Aggregate Relief	]		
Reservation	Relief Amount	Amount			
1032973	71.2	71.2	1		
		Maximum		Sink Control	Т
Source Control Area	Source	Increment(MW)	GSF	Area	S
OKGE	'CONTINENTAL EMPIRE 138KV'	63	0	OKGE	'F
OKGE	'CONTINENTAL EMPIRE 138KV'	63	0	OKGE	10
OKGE	'HORSESHOE LAKE 138KV'	380.5	0	OKGE	'F
OKGE	'HORSESHOE LAKE 138KV'	337.7	0	OKGE	'F
OKGE	'HORSESHOE LAKE 138KV'	380.5	0	OKGE	10
OKGE	'HORSESHOE LAKE 138KV'	337.7	0	OKGE	10
OKGE	'MCCLAIN 138KV'	42	0	OKGE	1
OKGE	'MCCLAIN 138KV'	42	0	OKGE	27
OKGE	'MUSKOGEE 161KV'	166	0	OKGE	1
OKGE	'MUSKOGEE 161KV'	31	0	OKGE	1
OKGE	'MUSKOGEE 161KV'	166	0	OKGE	10
OKGE	'MUSKOGEE 161KV'	31	0	OKGE	27
OKGE	'MUSTANG 138KV'	147.798	0	OKGE	'F
OKGE	'MUSTANG 138KV'	147.798	0	OKGE	10
OKGE	'ONE OAK 345KV'	204	0	OKGE	1
OKGE	'ONE OAK 345KV'	204	0	OKGE	12
OKGE	'REDBUD 345KV'	421.65	0	OKGE	1
OKGE	'REDBUD 345KV'	460	0	OKGE	1
OKGE	'REDBUD 345KV'	460	0	OKGE	27
OKGE	'REDBUD 345KV'	421.65	0	OKGE	10
OKGE	'SOONER 138KV'	24.99997	0	OKGE	1
OKGE	'SOONER 138KV'	24.99997	0	OKGE	20
OKGE	'SOUTH 4TH ST 69KV'	42.7	0	OKGE	1
OKGE	'SOUTH 4TH ST 69KV'	42.7	0	OKGE	14

Sink Control		Maximum			Redispatch
Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
0 OKGE	'FPLWND2 34KV'	101.9968	1	-1	71
0 OKGE	'SLEEPING BEAR 34KV'	120	1	-1	71
0 OKGE	'FPLWND2 34KV'	101.9968	1	-1	71
0 OKGE	'FPLWND2 34KV'	101.9968	1	-1	71
0 OKGE	'SLEEPING BEAR 34KV'	120	1	-1	71
0 OKGE	'SLEEPING BEAR 34KV'	120	1	-1	71
0 OKGE	'FPLWND2 34KV'	101.9968	1	-1	71
0 OKGE	'SLEEPING BEAR 34KV'	120	1	-1	71
0 OKGE	'FPLWND2 34KV'	101.9968	1	-1	71
0 OKGE	'FPLWND2 34KV'	101.9968	1	-1	71
0 OKGE	'SLEEPING BEAR 34KV'	120	1	-1	71
0 OKGE	'SLEEPING BEAR 34KV'	120	1	-1	71
0 OKGE	'FPLWND2 34KV'	101.9968	1	-1	71
0 OKGE	'SLEEPING BEAR 34KV'	120	1	-1	71
0 OKGE	'FPLWND2 34KV'	101.9968	1	-1	71
0 OKGE	'SLEEPING BEAR 34KV'	120	1	-1	71
0 OKGE	'FPLWND2 34KV'	101.9968	1	-1	71
0 OKGE	'FPLWND2 34KV'	101.9968	1	-1	71
0 OKGE	'SLEEPING BEAR 34KV'	120	1	-1	71
0 OKGE	'SLEEPING BEAR 34KV'	120	1	-1	71
0 OKGE	'FPLWND2 34KV'	101.9968	1	-1	71
0 OKGE	'SLEEPING BEAR 34KV'	120	1	-1	71
0 OKGE	'FPLWND2 34KV'	101.9968	1	-1	71
0 OKGE	'SLEEPING BEAR 34KV'	120	1	-1	71

Redispatch Amount (MW)

Upgrade:	IODINE - WOODWARD 138kV CKT 1					
Limiting Facility:	WOODWARD - WOODWARD 69KV CKT 1					
Direction:	From->To					
Line Outage:	FPL SWITCH - MOORELAND 138KV CKT 1					
Flowgate:	56096547821559995578511306FA					
Date Redispatch Needed:	10/1/06 - 12/1/06					
Season Flowgate Identified:	2006 Fall Peak	T	-			
		Aggregate Relief				
Reservation	Relief Amount	Amount				
1032973	72.					
		Maximum		Sink Control		Maximum
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)
OKGE	'CONTINENTAL EMPIRE 138KV'	63		0 OKGE	'FPLWND2 34KV'	1
OKGE	'CONTINENTAL EMPIRE 138KV'	63		0 OKGE	'SLEEPING BEAR 34KV'	1:
OKGE	'HORSESHOE LAKE 138KV'	91		0 OKGE	'FPLWND2 34KV'	1
OKGE	'HORSESHOE LAKE 138KV'	380		0 OKGE	'FPLWND2 34KV'	1
OKGE	'HORSESHOE LAKE 138KV'	380.5		0 OKGE	'FPLWND2 34KV'	1
OKGE	'HORSESHOE LAKE 138KV'	91		0 OKGE	'SLEEPING BEAR 34KV'	1:
OKGE	'HORSESHOE LAKE 138KV'	380.5		0 OKGE	'SLEEPING BEAR 34KV'	1:
OKGE	'HORSESHOE LAKE 138KV'	380	1	0 OKGE	'SLEEPING BEAR 34KV'	1:
OKGE	'MCCLAIN 138KV'	42		0 OKGE	'FPLWND2 34KV'	1
OKGE	'MCCLAIN 138KV'	42		0 OKGE	'SLEEPING BEAR 34KV'	1
OKGE	'MUSKOGEE 161KV'	31		0 OKGE	'FPLWND2 34KV'	1
OKGE	'MUSKOGEE 161KV'	166		0 OKGE	'FPLWND2 34KV'	1
OKGE	'MUSKOGEE 161KV'	31		0 OKGE	'SLEEPING BEAR 34KV'	1:
OKGE	'MUSKOGEE 161KV'	166	i	0 OKGE	SLEEPING BEAR 34KV	1
OKGE	'MUSTANG 138KV'	365.5		0 OKGE	'FPLWND2 34KV'	1
OKGE	'MUSTANG 138KV'	365.5		0 OKGE	SLEEPING BEAR 34KV	1
OKGE	'MUSTANG 69KV'	106		0 OKGE	'FPLWND2 34KV'	1
OKGE	'MUSTANG 69KV'	106		0 OKGE	SLEEPING BEAR 34KV	1:
OKGE	ONE OAK 345KV	236		0 OKGE	'FPLWND2 34KV'	1
OKGE	ONE OAK 345KV	236		0 OKGE	SLEEPING BEAR 34KV	1
OKGE	'REDBUD 345KV'	421.65		0 OKGE	'FPLWND2 34KV'	1
OKGE	'REDBUD 345KV'	900		0 OKGE	'FPLWND2 34KV'	1
OKGE	'REDBUD 345KV'	421.65		0 OKGE	SLEEPING BEAR 34KV	1
OKGE	'REDBUD 345KV'	900		0 OKGE	SLEEPING BEAR 34KV	1
OKGE	SEMINOLE 138KV	262.6606		0 OKGE	FPLWND2 34KV	1
OKGE	SEMINOLE 138KV	262.6606		0 OKGE	SLEEPING BEAR 34KV	1
OKGE	SEMINOLE 345KV	507.6		0 OKGE	'FPLWND2 34KV'	1
OKGE	SEMINOLE 345KV	507.6		0 OKGE	SLEEPING BEAR 34KV	1
OKGE	SOONER 138KV	24.99997		0 OKGE	'FPLWND2 34KV'	1
			<u> </u>	0 OKGE		
OKGE OKGE	'SOONER 138KV' 'SOUTH 4TH ST 69KV'	24.99997 42.7	.+	0 OKGE	'SLEEPING BEAR 34KV' 'FPLWND2 34KV'	1
OKGE						
	'SOUTH 4TH ST 69KV'	42.7		0 OKGE	SLEEPING BEAR 34KV	1
OKGE	'TINKER 5G 138KV'	62		0 OKGE	'FPLWND2 34KV'	1
OKGE	'TINKER 5G 138KV' imum Increment were determine from the Souce and Sink	62	1	0 OKGE	SLEEPING BEAR 34KV	1:

 
 OKGE
 'TINKER 5G 138KV'

 OKGE
 'TINKER 5G 138KV'

 Maximum Decrement and Maximum Increment were Factor = Source GSF - Sink GSF

 Redispatch Amount = Relief Amount / Factor
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IODINE - WOODWARD 138kV CKT 1 Upgrade: Limiting Facility: Direction: WOODWARD - WOODWARD 69KV CKT 1 From->To FPL SWITCH - MOORELAND 138KV CKT 1 Line Outage: Flowgate: Date Redispatch Needed: 56096547821559995578514406SH 6/1/06 - 10/1/06 Season Flowgate Identified: 2006 Summer Shoulder Aggregate Relief Amount Relief Amount Reservation 10329 Maximum Sink Co Maximun Redispatc Source Control Area OKGE OKGE Area 0 OKGE 0 OKGE Sink 'FPLWND2 34KV' 'SLEEPING BEAR 34KV' GSF Source 'CONTINENTAL EMPIRE 138KV' 'CONTINENTAL EMPIRE 138KV' ncrement(MW) GSF Decrement(MW) Factor Amount (MW) 80 63 120 80 80 80 80 80 80 80 80 OKGE HORSESHOE LAKE 138KV 380 FPLWND2 34KV 102 0 OKGE HORSESHOE LAKE 138KV MCCLAN 138KV MCCLAN 138KV MUSKOGEE 161KV MUSKOGEE 161KV MUSKOGEE 161KV TPL/WND2 34KV TPL/WND2 34KV FPL/WND2 34KV SLEEPING BEAR 34KV SLEEPING BEAR 34KV SLEEPING BEAR 34KV TPL/WND2 34KV SLEEPING BEAR 34KV TPL/WND2 34KV SLEEPING BEAR 34KV SLEEPING BEAR 34KV OKGE OKGE OKGE OKGE OKGE OKGE 102 102 380.5 91 91 380 380.5 42 42 120 102 120 80 80 80 OKGE OKGE 102 166 102 OKGE 120 SLEEPING BEAR 34KV SLEEPING BEAR 34KV FPLUND2 34KV FPLUND2 34KV FPLUND2 34KV SLEEPING BEAR 34KV FPLUND2 34KV SLEEPING BEAR 34KV FPLUND2 34KV SLEEPING BEAR 34KV SLEEPING BEAR 34KV MUSKOGEE 161KV' MUSTANG 138KV' MUSTANG 138KV' MUSTANG 69KV' MUSTANG 69KV' ONE OAK 345KV' ONE OAK 345KV' REDBUD 345KV' REDBUD 345KV' REDBUD 345KV' REDBUD 345KV' OKGE 166 0 OKGE 120 80 OKGE OKGE OKGE OKGE OKGE OKGE OKGE 365.5 102 80 80 80 80 80 80 80 80 80 365.5 106 293 293 253 421.65 120 102 120 102 102 253 421.65 OKGE 'REDBUD 345KV 120 SLEEPING BEAR 34KV 'FPLWND2 34KV' SLEEPING BEAR 34KV' FPLWND2 34KV' SLEEPING BEAR 34KV' 'FPLWND2 34KV' SLEEPING BEAR 34KV' SLEEPING BEAR 34KV' SLEEPING BEAR 34KV' 0 OKGE SEMINOLE 138KV SEMINOLE 138KV SEMINOLE 345KV 32.63217 32.63217 389.3251 102 120 120 OKGE OKGE OKGE OKGE OKGE OKGE 80 80 80 80 80 80 80 80 SEMINOLE 345KV' SEMINOLE 345KV' SOUTH 4TH ST 69KV SOUTH 4TH ST 69KV TINKER 5G 138KV' TINKER 5G 138KV' 389.3251 389.3251 42.7 42.7 120 102 120 102 102 120 62 62 imum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified

Redispatch

Amount (MW)

GSF

120 102

120

Factor

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

Jpgrade:	IODINE - WOODWARD 138kV CKT 1							
imiting Facility:	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFO	RMER CKT 1						
Direction:	From->To							
ine Outage:	FPL SWITCH - MOORELAND 138KV CKT 1							
Flowgate:	WODODWRD21421559995578511406SH							
Date Redispatch Needed:	6/1/06 - 10/1/06							
Season Flowgate Identified:	2006 Summer Shoulder							
		Aggregate Relief	1					
Reservation	Relief Amount	Amount						
103297		82.3	1					
105231	5 02.5	Maximum		Sink Control		Maximum	1	1
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Fact
DKGE	CONTINENTAL EMPIRE 138KV	63		0 OKGE	'FPLWND2 34KV'	102		1
OKGE	CONTINENTAL EMPIRE 138KV	63		0 OKGE	SLEEPING BEAR 34KV	120		1
DKGE	'HORSESHOE LAKE 138KV'	91		0 OKGE	FPLWND2 34KV	102		1
DKGE	HORSESHOE LAKE 138KV	380.5		0 OKGE	'FPLWND2 34KV'	102		1
DKGE	HORSESHOE LAKE 138KV	380		0 OKGE	'FPLWND2 34KV'	102		1
DKGE	HORSESHOE LAKE 138KV	380		0 OKGE	SLEEPING BEAR 34KV	120		1
DKGE	HORSESHOE LAKE 138KV	380.5		0 OKGE	SLEEPING BEAR 34KV	120		1
DKGE	HORSESHOE LAKE 138KV	91		0 OKGE	SLEEPING BEAR 34KV	120		1
DKGE	'MCCLAIN 138KV'	42		0 OKGE	'FPLWND2 34KV'	102		1
DKGE	MCCLAIN 138KV	42		0 OKGE	SLEEPING BEAR 34KV	102		1
DKGE	MUSKOGEE 161KV	166		0 OKGE	FPLWND2 34KV	102		1
OKGE	'MUSKOGEE 161KV'	31		0 OKGE	FPLWND2 34KV	102		1
DKGE	'MUSKOGEE 161KV'	31		0 OKGE	SLEEPING BEAR 34KV	120		1
DKGE	MUSKOGEE 161KV	166		0 OKGE	SLEEPING BEAR 34KV	120		1
DKGE	'MUSTANG 138KV'	365.5		0 OKGE	FPLWND2 34KV	102		1
DKGE	'MUSTANG 138KV'	365.5		0 OKGE	SLEEPING BEAR 34KV	102		1
DKGE	'MUSTANG 69KV'	106		0 OKGE	FPLWND2 34KV	102		1
DKGE	MUSTANG 69KV	100		0 OKGE	SLEEPING BEAR 34KV	102		1
DKGE	ONE OAK 345KV	293		0 OKGE	FPLWND2 34KV	102		1
DKGE	ONE OAK 345KV	293		0 OKGE	SLEEPING BEAR 34KV	102		1
DKGE	'REDBUD 345KV'	421.65		0 OKGE	FPLWND2 34KV	102		1
OKGE	'REDBUD 345KV'	421.03		0 OKGE	FPLWND2 34KV	102		1
DKGE	REDBUD 345KV	421.65		0 OKGE	SLEEPING BEAR 34KV	102		4
DKGE	REDBUD 345KV	421.03		0 OKGE	SLEEPING BEAR 34KV	120		1
OKGE	SEMINOLE 138KV	33.341		0 OKGE	FPLWND2 34KV	102		1
DKGE	SEMINOLE 138KV	33.341		0 OKGE	SLEEPING BEAR 34KV	102		1
DKGE	SEMINOLE 138KV SEMINOLE 345KV	33.341 389.3251		0 OKGE	FPLWND2 34KV	120		
DKGE	SEMINOLE 345KV	389.3251		0 OKGE	SLEEPING BEAR 34KV	102		1
DKGE	SOUTH 4TH ST 69KV	389.3251 42.7	l	0 OKGE	FPLWND2 34KV	120		-
DKGE	SOUTH 4TH ST 69KV	42.7		0 OKGE	SLEEPING BEAR 34KV	102		1
DKGE	'SOUTH 4TH ST 69KV' 'TINKER 5G 138KV'	42.7			'SLEEPING BEAR 34KV'	120		1
DKGE	TINKER 5G 138KV	62		0 OKGE	SLEEPING BEAR 34KV	102		1

Redispatch Amount (MW)

-1 -1 -1

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

imiting Facility: Direction:	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFO From->To								
ine Outage:	FPL SWITCH - MOORELAND 138KV CKT 1								
Flowgate:	WODODWRD21421559995578514106SP								
Date Redispatch Needed:	6/1/06 - 10/1/06								
Season Flowgate Identified:	2006 Summer Peak								
2		Aggregate Relief	1						
Reservation	Relief Amount	Amount							
1032973		2 81.2	1						
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
OKGE	'CONTINENTAL EMPIRE 138KV'	63	(	OKGE	'FPLWND2 34KV'	101.9968	1		-1
OKGE	CONTINENTAL EMPIRE 138KV	63	(	OKGE	SLEEPING BEAR 34KV	120	1		-1
OKGE	'HORSESHOE LAKE 138KV'	380.5	(	OKGE	'FPLWND2 34KV'	101.9968	1		-1
OKGE	'HORSESHOE LAKE 138KV'	337.7	(	OKGE	'FPLWND2 34KV'	101.9968	1		-1
OKGE	'HORSESHOE LAKE 138KV'	337.7		OKGE	'SLEEPING BEAR 34KV'	120	1		-1
OKGE	'HORSESHOE LAKE 138KV'	380.5		OKGE	'SLEEPING BEAR 34KV'	120			-1
OKGE	'MCCLAIN 138KV'	42	(	OKGE	'FPLWND2 34KV'	101.9968	1		-1
OKGE	'MCCLAIN 138KV'	42		OKGE	'SLEEPING BEAR 34KV'	120	1		-1
OKGE	'MUSKOGEE 161KV'	166		OKGE	'FPLWND2 34KV'	101.9968	1		-1
OKGE	'MUSKOGEE 161KV'	31		OKGE	'FPLWND2 34KV'	101.9968	1		-1
OKGE	'MUSKOGEE 161KV'	166		OKGE	'SLEEPING BEAR 34KV'	120	1		-1
OKGE	'MUSKOGEE 161KV'	31		OKGE	'SLEEPING BEAR 34KV'	120	1		-1
OKGE	'MUSTANG 138KV'	147.798		OKGE	'FPLWND2 34KV'	101.9968			-1
OKGE	'MUSTANG 138KV'	147.798		OKGE	'SLEEPING BEAR 34KV'	120			-1
OKGE	'ONE OAK 345KV'	204		OKGE	'FPLWND2 34KV'	101.9968			-1
DKGE	'ONE OAK 345KV'	204		OKGE	'SLEEPING BEAR 34KV'	120			-1
DKGE	'REDBUD 345KV'	460		OKGE	'FPLWND2 34KV'	101.9968			-1
OKGE	'REDBUD 345KV'	421.65		OKGE	'FPLWND2 34KV'	101.9968			-1
DKGE	'REDBUD 345KV'	421.65		OKGE	'SLEEPING BEAR 34KV'	120			-1
OKGE	'REDBUD 345KV'	460		OKGE	'SLEEPING BEAR 34KV'	120			-1
DKGE	'SOUTH 4TH ST 69KV'	42.7		OKGE	'FPLWND2 34KV'	101.9968		1	-1
OKGE	SOUTH 4TH ST 69KV simum Increment were determine from the Souce and Sink	42.7		OKGE	'SLEEPING BEAR 34KV'	120	1		-1

Upgrade:	IODINE - WOODWARD 138kV CKT 1					
Limiting Facility:	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSF	OF	RMER CKT 1			
Direction:	From->To					
Line Outage:	FPL SWITCH - MOORELAND 138KV CKT 1					
Flowgate:	WODODWRD21421559995578514306FA					
Date Redispatch Needed:	10/1/06 - 12/1/06					
Season Flowgate Identified:	2006 Fall Peak					
			Aggregate Relief	1		
Reservation	Relief Amount		Amount			
1032973	82	2.6	82.6	1		
			Maximum		Sink Control	
Source Control Area	Source		Increment(MW)	GSF	Area	Sink
OKGE	'CONTINENTAL EMPIRE 138KV'		63	0	OKGE	'FPLWND2 34KV'
OKGE	'CONTINENTAL EMPIRE 138KV'		63	0	OKGE	'SLEEPING BEAR 34KV'
OKGE	'HORSESHOE LAKE 138KV'		380	0	OKGE	'FPLWND2 34KV'
OKGE	'HORSESHOE LAKE 138KV'		380.5	0	OKGE	'FPLWND2 34KV'
OKGE	'HORSESHOE LAKE 138KV'		91	0	OKGE	'FPLWND2 34KV'
OKGE	'HORSESHOE LAKE 138KV'		91	0	OKGE	'SLEEPING BEAR 34KV'
OKGE	'HORSESHOE LAKE 138KV'		380.5	0	OKGE	'SLEEPING BEAR 34KV'
OKGE	'HORSESHOE LAKE 138KV'		380	0	OKGE	'SLEEPING BEAR 34KV'
OKGE	'MCCLAIN 138KV'		42	0	OKGE	'FPLWND2 34KV'
OKGE	'MCCLAIN 138KV'		42	0	OKGE	'SLEEPING BEAR 34KV'
OKGE	'MUSKOGEE 161KV'		31	0	OKGE	'FPLWND2 34KV'
OKGE	'MUSKOGEE 161KV'		166		OKGE	'FPLWND2 34KV'
OKGE	'MUSKOGEE 161KV'		166	0	OKGE	'SLEEPING BEAR 34KV'
OKGE	'MUSKOGEE 161KV'		31	0	OKGE	'SLEEPING BEAR 34KV'
OKGE	'MUSTANG 138KV'		365.5	0	OKGE	'FPLWND2 34KV'
OKGE	'MUSTANG 138KV'		365.5	0	OKGE	SLEEPING BEAR 34KV
OKGE	'MUSTANG 69KV'		106		OKGE	'FPLWND2 34KV'
OKCE	MUCTANC CORDE	-	106	0	OKCE	ICLEEDING DEAD 24KM

120 120 102 120 102 102 120 120 120 102 120 102 KV' 4KV' 4KV' KV' TIMUSTANG 69KV MUSTANG 69KV TONE OAK 345KV TONE OAK 345KV TREDBUD 345KV TREDBUD 345KV TREDBUD 345KV TREDBUD 345KV TSEMINOLE 138KV TSEMINOLE 138KV TSEMINOLE 345KV TSEMINOLE 345KV TSEMINOLE 345KV TSEMINOLE 345KV TSUTH 4TH ST 69KV TJINKEP 50 40005 0 OKGE SLEEPING BEAR 34KV 0 OKGE FPLWND2 34KV 0 OKGE SLEEPING BEAR 34KV 0 OKGE SLEEPING BEAR 34KV 0 OKGE FPLWND2 34KV 0 OKGE FPLWND2 34KV 0 OKGE FPLWND2 34KV 0 OKGE SLEEPING BEAR 34KV 
 'MUSTANG 69KV'
 106

 'MUSTANG 69KV'
 106

 'MUSTANG 69KV'
 236

 'ONE OAK 345KV'
 236

 'ONE OAK 345KV'
 236

 'REDBUD 345KV
 900

 'REDBUD 345KV'
 421.65

 'REDBUD 345KV'
 900

 'SEMINOLE 138KV'
 262.361

 'SEMINOLE 138KV'
 262.361

 'SEMINOLE 345KV'
 507.6

 'SEMINOLE 345KV'
 507.6

 'SOUTH 4TH ST 69KV'
 42.7

 'SOUTH 4TH ST 69KV'
 62

 'TINKER 5G 138KV'
 62

 'TINKER 5G 138KV'
 62

 'TINKER 5G 138KV'
 62

 'TINKER 5G 138KV'
 62

 'SIMUM Increment were determine from the Souce and Sink Operating Points in the study nor SF
 120 102 102 102 102 120 120 102 120 102 102 120 102 OKGE SOUTH 4TH OKGE SOUTH 4TH OKGE TINKER 5G Maximum Decrement and Maximum Incremer Factor = Source GSF - Sink GSF Redispatch Amount = Relief Amount / Factor 120 102 120 -1

Maximum

Decrement(MW)

GSF

Factor

Redispatch

Amount (MW)

lpgrade:	JEC - SWISSVALE 345KV							
imiting Facility:	HOYT - JEFFERY ENERGY CENTER 345KV CKT 1							
virection:	To->From							
ine Outage:	JEFFERY ENERGY CENTER - MORRIS COUNTY 345K	V CKT 1						
lowgate:	56765567661567665677011108SP							
ate Redispatch Needed:	Starting 2008 6/1 - 10/1 Until EOC							
eason Flowgate Identified:	2008 Summer Peak							
		Aggregate Relief						
eservation	Relief Amount	Amount						
103458								
103459								
103459								
103525								
103020	4	Maximum		Sink Control		Maximum	1	Redispatch
ource Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW) GSF	Factor	Amount (MW)
/ERE	'HOLTON 115KV'	13.23199	-0.08285		JEFFREY ENERGY CENTER 345KV	940.71 0.5965		
'ERE	CHANUTE 69KV	24.963	0.01031		JEFFREY ENERGY CENTER 345KV	940.71 0.5965		
ERE	CITY OF FREDONIA 69KV	4.994	0.01031		JEFFREY ENERGY CENTER 345KV	940.71 0.5965		
/ERE	CITY OF FREDONIA 69KV	4.994	0.00751		JEFFREY ENERGY CENTER 345KV	940.71 0.5965		
ERE	CITY OF GIRARD 69KV	13.157	0.00751		JEFFREY ENERGY CENTER 345KV	940.71 0.5965		
						940.71 0.5965		
ERE	'GETTY 69KV'	35	0.03236		JEFFREY ENERGY CENTER 345KV			
'ERE	'HOLTON 115KV' 'CITY OF MULVANE 69KV'	13.23199	-0.08285		JEFFREY ENERGY CENTER 230KV	486 0.5033 940.71 0.5965		
/ERE		7.5			JEFFREY ENERGY CENTER 345KV	940.71 0.5965		
	'EVANS ENERGY CENTER 138KV'		0.04238		JEFFREY ENERGY CENTER 345KV			
(ERE	CHANUTE 69KV	24.963	0.01031		JEFFREY ENERGY CENTER 230KV	486 0.5033		
ERE	CITY OF GIRARD 69KV	6.108	0.00751		JEFFREY ENERGY CENTER 230KV	486 0.5033		
/ERE	CITY OF IOLA 69KV'	13.157	0.00784		'JEFFREY ENERGY CENTER 230KV'	486 0.5033		
ERE	CITY OF MULVANE 69KV	7.5	0.03807		JEFFREY ENERGY CENTER 230KV	486 0.5033		
/ERE	'EVANS ENERGY CENTER 138KV'	162	0.04238		JEFFREY ENERGY CENTER 230KV	486 0.5033		
/ERE	'GETTY 69KV'	35	0.03236		JEFFREY ENERGY CENTER 230KV	486 0.5033		
VERE	'HOLTON 115KV'	13.23199	-0.08285		'SMOKEY HILLS 34KV'	50 0.3092		
/ERE	'HOLTON 115KV'	13.23199	-0.08285		'ABILENE ENERGY CENTER 115KV'	45 0.295		
VERE	'HOLTON 115KV'	13.23199	-0.08285		'BPU - CITY OF MCPHERSON 115KV'	165 0.3000		
VERE	'HOLTON 115KV'	13.23199	-0.08285		'HUTCHINSON ENERGY CENTER 115KV'	240 0.2759		
VERE	'HOLTON 115KV'	13.23199	-0.08285		'HUTCHINSON ENERGY CENTER 69KV'	45 0.2758		
VERE	'CLAY CENTER JUNCTION 115KV'	28.7	0.27895		'JEFFREY ENERGY CENTER 345KV'	940.71 0.5965		
/ERE	'HUTCHINSON ENERGY CENTER 115KV'	83	0.27593		'JEFFREY ENERGY CENTER 345KV'	940.71 0.5965		
/ERE	'BPU - CITY OF MCPHERSON 115KV'	9.000002	0.30006		'JEFFREY ENERGY CENTER 345KV'	940.71 0.5965		
/ERE	'CITY OF IOLA 69KV'	13.157	0.00784		'SMOKEY HILLS 34KV'	50 0.3092		
/ERE	'CITY OF IOLA 69KV'	13.157	0.00784		'ABILENE ENERGY CENTER 115KV'	45 0.295		
'ERE	'CITY OF IOLA 69KV'	13.157	0.00784		'BPU - CITY OF MCPHERSON 115KV'	165 0.3000		
ERE	'GETTY 69KV'	35	0.03236		'SMOKEY HILLS 34KV'	50 0.3092		
'ERE	'CITY OF IOLA 69KV'	13.157	0.00784		'HUTCHINSON ENERGY CENTER 115KV'	240 0.2759		
'ERE	'CITY OF IOLA 69KV'	13.157	0.00784		'HUTCHINSON ENERGY CENTER 69KV'	45 0.2758		
/ERE	'EVANS ENERGY CENTER 138KV'	162	0.04238		'SMOKEY HILLS 34KV'	50 0.3092		
/ERE	'GETTY 69KV'	35	0.03236		'BPU - CITY OF MCPHERSON 115KV'	165 0.3000		
/ERE	'EVANS ENERGY CENTER 138KV'	162	0.04238		'BPU - CITY OF MCPHERSON 115KV'	165 0.3000		
/ERE	'GETTY 69KV'	35	0.03236		'ABILENE ENERGY CENTER 115KV'	45 0.295		
'ERE	'EVANS ENERGY CENTER 138KV'	162	0.04238		'ABILENE ENERGY CENTER 115KV'	45 0.295		
ERE	'GETTY 69KV'	35	0.03236		'HUTCHINSON ENERGY CENTER 115KV'	240 0.2759		
ERE	'GETTY 69KV'	35	0.03236	WERE	'HUTCHINSON ENERGY CENTER 69KV'	45 0.2758	6 -0.2435	
ERE	'EVANS ENERGY CENTER 138KV'	162	0.04238	WERE	'HUTCHINSON ENERGY CENTER 115KV'	240 0.2759	3 -0.23355	i
ERE	'EVANS ENERGY CENTER 138KV'	162	0.04238		'HUTCHINSON ENERGY CENTER 69KV'	45 0.2758		
ERE	'HUTCHINSON ENERGY CENTER 115KV'	83	0.27593		'JEFFREY ENERGY CENTER 230KV'	486 0.5033		
ERE	'CLAY CENTER JUNCTION 115KV'	28.7	0.27895		JEFFREY ENERGY CENTER 230KV	486 0.5033		
'EPL	'CIMARRON RIVER 115KV'	47	0.11351		'RUSSELL 115KV'	25.25 0.2354		
/EPL	CIMARRON RIVER 115KV	47	0.11351		CLIFTON 115KV	59.01147 0.2259		
	'CIMARRON RIVER 115KV'	47			'A. M. MULLERGREN GENERATOR 115KV'	63 0.2194		

Redispatch Amount = Relief Amount / Factor

Jpgrade: _imiting Facility:	JEC - SWISSVALE 345KV HOYT - JEFFERY ENERGY CENTER 345KV CKT 1								
Direction:	To->From								
_ine Outage:	JEFFERY ENERGY CENTER - MORRIS COUNTY 345K	V CKT 1							
lowgate:	56765567661567665677011307WP								
Date Redispatch Needed:	12/1/07 - 4/1/08								
Season Flowgate Identified:	2007 Winter Peak								
		Aggregate Relief							
Reservation	Relief Amount	Amount							
1034589									
1034590		31.1							
1034595									
1035259	17.7	31.1							
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source			Area	Sink		GSF		Amount (MW)
WERE	'CITY OF ERIE 69KV'	26.53	0.01056		'JEFFREY ENERGY CENTER 345KV'	924			ŧ
WERE	'CITY OF IOLA 69KV'	23.063	0.00842		'JEFFREY ENERGY CENTER 345KV'	924			ŧ
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.0103		'JEFFREY ENERGY CENTER 345KV'	924	0.59738	-0.58708	Ę
WERE	'CITY OF WINFIELD 69KV'	34.68	0.03279		'JEFFREY ENERGY CENTER 345KV'	924		-0.56459	ł
WERE	'GETTY 69KV'	35	0.03201		'JEFFREY ENERGY CENTER 345KV'	924	0.59738	-0.56537	ł
WERE	'EVANS ENERGY CENTER 138KV'	313	0.04201		'JEFFREY ENERGY CENTER 345KV'	924			5
WERE	'GILL ENERGY CENTER 69KV'	118	0.04119		'JEFFREY ENERGY CENTER 345KV'	924	0.59738	-0.55619	Ę
WERE	'CITY OF ERIE 69KV'	26.53	0.01056		'JEFFREY ENERGY CENTER 230KV'	486		-0.49383	e
WERE	'CITY OF IOLA 69KV'	23.063	0.00842		'JEFFREY ENERGY CENTER 230KV'	486			(
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.0103		'JEFFREY ENERGY CENTER 230KV'	486			6
WERE	'CITY OF WINFIELD 69KV'	34.68	0.03279		'JEFFREY ENERGY CENTER 230KV'	486	0.50439	-0.4716	6
WERE	'GETTY 69KV'	35	0.03201		'JEFFREY ENERGY CENTER 230KV'	486		-0.47238	(
WERE	'EVANS ENERGY CENTER 138KV'	313	0.04201		'JEFFREY ENERGY CENTER 230KV'	486		-0.46238	
WERE	'GILL ENERGY CENTER 69KV'	118	0.04119		'JEFFREY ENERGY CENTER 230KV'	486			(
WERE	'HUTCHINSON ENERGY CENTER 115KV'	263	0.27632		'JEFFREY ENERGY CENTER 345KV'	924	0.59738	-0.32106	9
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	0.27625		'JEFFREY ENERGY CENTER 345KV'	924	0.59738	-0.32113	
WERE	'NEOSHO ENERGY CENTER 138KV'	67	0.0103		'SMOKEY HILLS 34KV'	50		-0.29928	10
VERE	'NEOSHO ENERGY CENTER 138KV'	67	0.0103		'BPU - CITY OF MCPHERSON 115KV'	135		-0.29021	10
VERE	'NEOSHO ENERGY CENTER 138KV'	67	0.0103		'ABILENE ENERGY CENTER 115KV'	40		-0.28562	10
WERE	'EVANS ENERGY CENTER 138KV'	313	0.04201		'SMOKEY HILLS 34KV'	50	0.30958	-0.26757	11
VERE	'GILL ENERGY CENTER 69KV'	118	0.04119		'SMOKEY HILLS 34KV'	50	0.30958	-0.26839	1
VERE	'NEOSHO ENERGY CENTER 138KV'	67	0.0103		'HUTCHINSON ENERGY CENTER 115KV'	120	0.27632	-0.26602	1
VERE	'EVANS ENERGY CENTER 138KV'	313	0.04201		'BPU - CITY OF MCPHERSON 115KV'	135			1:
VERE	'GILL ENERGY CENTER 69KV'	118	0.04119		'BPU - CITY OF MCPHERSON 115KV'	135		-0.25932	1:
WERE	'GILL ENERGY CENTER 69KV'	118	0.04119		'HUTCHINSON ENERGY CENTER 115KV'	120		-0.23513	1:
VERE	'EVANS ENERGY CENTER 138KV'	313	0.04201		'HUTCHINSON ENERGY CENTER 115KV'	120			1
VERE	'HUTCHINSON ENERGY CENTER 115KV'	263	0.27632		'JEFFREY ENERGY CENTER 230KV'	486			1:
VERE	'HUTCHINSON ENERGY CENTER 69KV'	67	0.27625	WERE	'JEFFREY ENERGY CENTER 230KV'	486	0.50439	-0.22814	13

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

Upgrade:	JEC - SWISSVALE 345KV	
Limiting Facility:	HOYT - JEFFERY ENERGY CENTER 345KV CKT 1	
Direction:	To->From	
Line Outage:	JEFFERY ENERGY CENTER - MORRIS COUNTY 345KV	/ CKT 1
Flowgate:	56765567661567665677013107G	
Date Redispatch Needed:	Starting 2007 4/1 - 6/1 Until EOC of Upgrade	
Season Flowgate Identified:	2007 Spring Peak	
		Aggregate Relief
Reservation	Relief Amount	Amount
1034589	0.1	0.6
1034590	0.1	0.6
1034595	i 0.1	0.6

Reservation	Relief Amount	Amount							
1034589 1034590	0.1	0.6							
1034595	0.1	0.6							
1035259	0.4	0.6 Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)			Amount (MW)
WERE	BROWN COUNTY 115KV BROWN COUNTY 115KV	4.3		1 WERE	JEFFREY ENERGY CENTER 230KV JEFFREY ENERGY CENTER 345KV	486	0.50572 0.59875	-0.51282	1
WERE	'CHANUTE 69KV'	40.21		7 WERE	'JEFFREY ENERGY CENTER 230KV'	486	0.50572	-0.49495	1
WERE	'CHANUTE 69KV' 'CITY OF AUGUSTA 69KV'	40.21 3.04		7 WERE 8 WERE	JEFFREY ENERGY CENTER 345KV JEFFREY ENERGY CENTER 230KV	924 486	0.59875 0.50572	-0.58798 -0.47224	1
WERE	'CITY OF AUGUSTA 69KV'	3.04	0.0334	8 WERE	JEFFREY ENERGY CENTER 345KV	924	0.59875	-0.56527	1
WERE	CITY OF BURLINGTON 69KV'	2		8 WERE	'JEFFREY ENERGY CENTER 230KV' 'JEFFREY ENERGY CENTER 345KV'	486	0.50572 0.59875	-0.48924 -0.58227	1
WERE	'CITY OF ERIE 69KV'	26.53	0.0107	7 WERE	'JEFFREY ENERGY CENTER 230KV'	486	0.50572	-0.49495	1
WERE	CITY OF ERIE 69KV CITY OF FREDONIA 69KV	26.53 10.294		7 WERE	JEFFREY ENERGY CENTER 345KV JEFFREY ENERGY CENTER 230KV	924 486	0.59875	-0.58798 -0.49227	1
WERE	'CITY OF FREDONIA 69KV'	10.294	0.0134	5 WERE	'JEFFREY ENERGY CENTER 345KV'	924	0.59875	-0.5853	1
WERE	'CITY OF GIRARD 69KV' 'CITY OF GIRARD 69KV'	8.174 8.174		7 WERE	'JEFFREY ENERGY CENTER 230KV' 'JEFFREY ENERGY CENTER 345KV'	486	0.50572 0.59875	-0.49785 -0.59088	1
WERE	'CITY OF IOLA 69KV'	20.548	0.0086	i4 WERE	'JEFFREY ENERGY CENTER 230KV'	486	0.50572	-0.49708	1
WERE	'CITY OF IOLA 69KV' 'CITY OF MULVANE 69KV'	20.548		4 WERE 8 WERE	'JEFFREY ENERGY CENTER 345KV' 'JEFFREY ENERGY CENTER 230KV'	924 486	0.59875	-0.59011 -0.46792	1
WERE	'CITY OF MULVANE 69KV'	10.868	0.037	'8 WERE	'JEFFREY ENERGY CENTER 345KV'	924	0.59875	-0.56095	1
WERE	CITY OF NEODESHA 69KV CITY OF NEODESHA 69KV	4.5		1 WERE	JEFFREY ENERGY CENTER 230KV JEFFREY ENERGY CENTER 345KV	486	0.50572 0.59875	-0.49251 -0.58554	1
WERE	'CITY OF OSAGE CITY 115KV'	8.85	0.0947	'5 WERE	'JEFFREY ENERGY CENTER 345KV'	924	0.59875	-0.504	1
WERE	CITY OF WELLINGTON 69KV CITY OF WELLINGTON 69KV	4		1 WERE	'JEFFREY ENERGY CENTER 230KV' 'JEFFREY ENERGY CENTER 345KV'	486	0.50572 0.59875	-0.46962 -0.56265	1
WERE	'CITY OF WINFIELD 69KV'	28.55602	0.0328	7 WERE	'JEFFREY ENERGY CENTER 230KV'	486	0.50572	-0.47285	1
WERE WERE	'CITY OF WINFIELD 69KV' 'EVANS ENERGY CENTER 138KV'	28.55602 283		7 WERE	'JEFFREY ENERGY CENTER 345KV' 'JEFFREY ENERGY CENTER 230KV'	924 486	0.59875 0.50572	-0.56588 -0.46351	1
WERE	'EVANS ENERGY CENTER 138KV'	283	0.0422	1 WERE	'JEFFREY ENERGY CENTER 345KV'	924	0.59875	-0.55654	1
WERE	'GETTY 69KV' 'GETTY 69KV'	35 35		4 WERE	'JEFFREY ENERGY CENTER 230KV' 'JEFFREY ENERGY CENTER 345KV'	486	0.50572 0.59875	-0.47348 -0.56651	1
WERE	'GILL ENERGY CENTER 138KV'	17.99999	0.0426	6 WERE	'JEFFREY ENERGY CENTER 230KV'	486	0.50572	-0.46306	1
WERE	GILL ENERGY CENTER 138KV GILL ENERGY CENTER 69KV	17.99999 118	0.0412	6 WERE	JEFFREY ENERGY CENTER 345KV JEFFREY ENERGY CENTER 230KV	924 486	0.59875	-0.55609	1
WERE	'GILL ENERGY CENTER 69KV'	118	0.0412	6 WERE	'JEFFREY ENERGY CENTER 345KV'	924	0.59875	-0.55749	1
WERE	'HOLTON 115KV' 'HOLTON 115KV'	19.8 19.8	-0.0812	2 WERE	JEFFREY ENERGY CENTER 230KV JEFFREY ENERGY CENTER 345KV	486 924	0.50572	-0.58694 -0.67997	1
WERE	'LAWRENCE ENERGY CENTER 115KV'	78	0.039	1 WERE	'JEFFREY ENERGY CENTER 230KV'	486	0.50572	-0.46662	1
WERE	'LAWRENCE ENERGY CENTER 115KV' 'LAWRENCE ENERGY CENTER 230KV'	78 57.47137		1 WERE	JEFFREY ENERGY CENTER 345KV JEFFREY ENERGY CENTER 230KV	924 486	0.59875	-0.55965 -0.44119	1
WERE	'LAWRENCE ENERGY CENTER 230KV'	57.47137	0.0645	3 WERE	'JEFFREY ENERGY CENTER 345KV'	924	0.59875	-0.53422	1
WERE WERE	'NEOSHO ENERGY CENTER 138KV' 'NEOSHO ENERGY CENTER 138KV'	47		1 WERE	'JEFFREY ENERGY CENTER 230KV' 'JEFFREY ENERGY CENTER 345KV'	486	0.50572 0.59875	-0.49521 -0.58824	1
WERE	'OXFORD 138KV'	3	0.0337	'5 WERE	'JEFFREY ENERGY CENTER 230KV'	486	0.50572	-0.47197	1
WERE	'OXFORD 138KV' 'SOUTH SENECA 115KV'	3		5 WERE	'JEFFREY ENERGY CENTER 345KV' 'JEFFREY ENERGY CENTER 230KV'	924 486	0.59875	-0.565 -0.48046	1
WERE	'SOUTH SENECA 115KV'	15	0.0252	6 WERE	'JEFFREY ENERGY CENTER 345KV'	924	0.59875	-0.57349	1
WERE WERE	'ABILENE ENERGY CENTER 115KV' 'BPU - CITY OF MCPHERSON 115KV'	5.999996 39		7 WERE	'JEFFREY ENERGY CENTER 345KV' 'JEFFREY ENERGY CENTER 345KV'	924	0.59875	-0.30088 -0.29868	2
WERE	'BROWN COUNTY 115KV'	4.3	-0.007	1 WERE	'ABILENE ENERGY CENTER 115KV'	40	0.29787	-0.30497	2
WERE WERE	BROWN COUNTY 115KV BROWN COUNTY 115KV	4.3		1 WERE	'BPU - CITY OF MCPHERSON 115KV' 'HUTCHINSON ENERGY CENTER 115KV'	135	0.30007	-0.30717 -0.28086	2
WERE	'CHANUTE 69KV'	40.21	0.0107	7 WERE	'ABILENE ENERGY CENTER 115KV'	40	0.29787	-0.2871	2
WERE	CHANUTE 69KV CHANUTE 69KV	40.21 40.21		7 WERE	'BPU - CITY OF MCPHERSON 115KV' 'HUTCHINSON ENERGY CENTER 115KV'	135	0.30007	-0.2893 -0.26299	2
WERE	'CITY OF AUGUSTA 69KV'	3.04	0.0334	8 WERE	'ABILENE ENERGY CENTER 115KV'	40	0.29787	-0.26439	2
WERE	'CITY OF AUGUSTA 69KV' 'CITY OF BURLINGTON 69KV'	3.04		8 WERE	'BPU - CITY OF MCPHERSON 115KV' 'ABILENE ENERGY CENTER 115KV'	135 40	0.30007	-0.26659 -0.28139	2
WERE	'CITY OF BURLINGTON 69KV'	2	0.0164	8 WERE	'BPU - CITY OF MCPHERSON 115KV'	135	0.30007	-0.28359	2
WERE	'CITY OF ERIE 69KV' 'CITY OF ERIE 69KV'	26.53 26.53		7 WERE	'ABILENE ENERGY CENTER 115KV' 'BPU - CITY OF MCPHERSON 115KV'	40	0.29787	-0.2871 -0.2893	2
WERE	'CITY OF ERIE 69KV'	26.53	0.0107	7 WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.27376	-0.26299	2
WERE	CITY OF FREDONIA 69KV CITY OF FREDONIA 69KV	10.294 10.294		5 WERE	'ABILENE ENERGY CENTER 115KV' 'BPU - CITY OF MCPHERSON 115KV'	40	0.29787	-0.28442 -0.28662	2
WERE	'CITY OF FREDONIA 69KV'	10.294	0.0134	5 WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.27376	-0.26031	2
WERE	'CITY OF GIRARD 69KV' 'CITY OF GIRARD 69KV'	8.174 8.174		7 WERE	'ABILENE ENERGY CENTER 115KV' 'BPU - CITY OF MCPHERSON 115KV'	40	0.29787	-0.29 -0.2922	2
WERE	CITY OF GIRARD 69KV	8.174	0.0078	7 WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.27376	-0.26589	2
WERE WERE	CITY OF IOLA 69KV CITY OF IOLA 69KV	20.548 20.548		4 WERE	'ABILENE ENERGY CENTER 115KV' 'BPU - CITY OF MCPHERSON 115KV'	40 135	0.29787 0.30007	-0.28923 -0.29143	2
WERE	'CITY OF IOLA 69KV'	20.548	0.0086	i4 WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.27376	-0.26512	2
WERE	CITY OF MULVANE 69KV CITY OF MULVANE 69KV	10.868 10.868		8 WERE	'ABILENE ENERGY CENTER 115KV' 'BPU - CITY OF MCPHERSON 115KV'	40	0.29787	-0.26007	2
WERE	CITY OF NEODESHA 69KV	4.5		1 WERE	ABILENE ENERGY CENTER 115KV	40	0.29787	-0.28466	2
WERE	CITY OF NEODESHA 69KV' CITY OF NEODESHA 69KV'	4.5 4.5		1 WERE	'BPU - CITY OF MCPHERSON 115KV' 'HUTCHINSON ENERGY CENTER 115KV'	135 120	0.30007	-0.28686 -0.26055	2
WERE	'CITY OF OSAGE CITY 115KV'	8.85	0.0947	5 WERE	'JEFFREY ENERGY CENTER 230KV'	486	0.50572	-0.41097	2
WERE	CITY OF WELLINGTON 69KV CITY OF WELLINGTON 69KV	4	0.036	1 WERE	'ABILENE ENERGY CENTER 115KV' 'BPU - CITY OF MCPHERSON 115KV'	40		-0.26177 -0.26397	2
WERE	'CITY OF WINFIELD 69KV'	28.55602	0.0328	7 WERE	'ABILENE ENERGY CENTER 115KV'	40	0.29787	-0.265	2
WERE	'CITY OF WINFIELD 69KV' 'GETTY 69KV'	28.55602 35		VERE	'BPU - CITY OF MCPHERSON 115KV' 'ABILENE ENERGY CENTER 115KV'	135		-0.2672 -0.26563	2
WERE	'GETTY 69KV'	35	0.0322	4 WERE	'BPU - CITY OF MCPHERSON 115KV'	135	0.30007	-0.26783	2
WERE	'HOLTON 115KV' 'HOLTON 115KV'	19.8 19.8		2 WERE	'ABILENE ENERGY CENTER 115KV' 'BPU - CITY OF MCPHERSON 115KV'	40	0.29787	-0.37909 -0.38129	2
WERE	'HOLTON 115KV'	19.8	-0.0812	2 WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.27376	-0.35498	2
WERE	'HUTCHINSON ENERGY CENTER 115KV' 'HUTCHINSON ENERGY CENTER 69KV'	263		6 WERE	JEFFREY ENERGY CENTER 345KV JEFFREY ENERGY CENTER 345KV	924 924	0.59875	-0.32499 -0.32506	2
WERE	'LAWRENCE ENERGY CENTER 115KV'	78	0.039	1 WERE	'BPU - CITY OF MCPHERSON 115KV'	135	0.30007	-0.26097	2
WERE	NEOSHO ENERGY CENTER 138KV' NEOSHO ENERGY CENTER 138KV'	47		1 WERE	'ABILENE ENERGY CENTER 115KV' 'BPU - CITY OF MCPHERSON 115KV'	40		-0.28736 -0.28956	2
WERE	'NEOSHO ENERGY CENTER 138KV'	47	0.0105	1 WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.27376	-0.26325	2
WERE	'OXFORD 138KV' 'OXFORD 138KV'	3	0.0337	5 WERE	'ABILENE ENERGY CENTER 115KV' 'BPU - CITY OF MCPHERSON 115KV'	40	0.29787	-0.26412 -0.26632	2
WERE	'SOUTH SENECA 115KV'	15	0.0252	6 WERE	'ABILENE ENERGY CENTER 115KV'	40	0.29787	-0.27261	2
WERE	'SOUTH SENECA 115KV' 'ST JOHN 115KV'	15		6 WERE	'BPU - CITY OF MCPHERSON 115KV' 'JEFFREY ENERGY CENTER 230KV'	135	0.30007	-0.27481 -0.30173	2
WERE	'ST JOHN 115KV'	2.9	0.2039	9 WERE	'JEFFREY ENERGY CENTER 345KV'	924	0.59875	-0.39476	2
WERE WERE	'ABILENE ENERGY CENTER 115KV' 'BPU - CITY OF MCPHERSON 115KV'	5.999996 39		7 WERE	JEFFREY ENERGY CENTER 230KV JEFFREY ENERGY CENTER 230KV	486	0.50572	-0.20785 -0.20565	3
WERE	'CITY OF AUGUSTA 69KV'	3.04	0.0334	8 WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.27376	-0.24028	3
WERE Maximum Decrement and Max	CITY OF BURLINGTON 69KV' imum Increment were determine from the Souce and Sink (	2 Operating Points in th		8 WERE	HUTCHINSON ENERGY CENTER 115KV	120	0.27376	-0.25728	3

WERE [UTFOR BUCLINGTON BACK IN SUCCESSION BACK IN CONTRICT TO BUCLINGTON BACK IN CONTRICT TO BUCLINGTON BACK IN 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

pgrade: miting Facility:	JEC - SWISSVALE 345KV HOYT - JEFFERY ENERGY CENTER 345KV CKT 1								
irection:	To->From								
ne Outage:	LANG - MORRIS COUNTY 345KV CKT 1								
owgate:	56765567661567695677011107WP 12/1/07 - 4/1/08								
ate Redispatch Needed:									
eason Flowgate Identified:	2007 Winter Peak								
		Aggregate Relief							
eservation	Relief Amount	Amount							
1034589	0.6								
1034590	1.5								
1034595	3.1								
1035259	11.3	16.5							
		Maximum		Sink Control		Maximum			Redispatch
ource Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (M)
ERE	'CHANUTE 69KV'	45.782		6 WERE	JEFFREY ENERGY CENTER 345KV	924	0.5705	-0.5609	1
ERE	'CITY OF ERIE 69KV'	26.53		6 WERE	JEFFREY ENERGY CENTER 345KV	924		-0.5609	
ERE	CITY OF IOLA 69KV	23.063		5 WERE	JEFFREY ENERGY CENTER 345KV	924		-0.56295	
ERE	'NEOSHO ENERGY CENTER 138KV'	47		7 WERE	JEFFREY ENERGY CENTER 345KV	924		-0.56113	
								-0.55831	-
RE	CITY OF FREDONIA 69KV	10.294		9 WERE	JEFFREY ENERGY CENTER 345KV	924	0.5705		+
RE	SOUTH SENECA 115KV	15	0.0274	4 WERE	JEFFREY ENERGY CENTER 345KV	924		-0.54306	
ERE	CITY OF MULVANE 69KV	11.999		7 WERE	JEFFREY ENERGY CENTER 345KV	924		-0.53533	
ERE	'CITY OF WINFIELD 69KV'	34.68		8 WERE	'JEFFREY ENERGY CENTER 345KV'	924		-0.53962	+
ERE	'EVANS ENERGY CENTER 138KV'	66.94189	0.0386		'JEFFREY ENERGY CENTER 345KV'	924		-0.53183	<u> </u>
ERE	'GETTY 69KV'	35		5 WERE	'JEFFREY ENERGY CENTER 345KV'	924			
ERE	'GILL ENERGY CENTER 138KV'	17.99999		1 WERE	'JEFFREY ENERGY CENTER 345KV'	924		-0.52989	
ERE	'GILL ENERGY CENTER 69KV'	73	0.0389		'JEFFREY ENERGY CENTER 345KV'	924		-0.53155	
ERE	CHANUTE 69KV	45.782		6 WERE	JEFFREY ENERGY CENTER 230KV	486		-0.48228	
RE	'CITY OF ERIE 69KV'	26.53		6 WERE	JEFFREY ENERGY CENTER 230KV	486	0.49188	-0.48228	1
ERE	'CITY OF IOLA 69KV'	23.063		5 WERE	JEFFREY ENERGY CENTER 230KV	486		-0.48433	
ERE	'NEOSHO ENERGY CENTER 138KV'	47	0.0093		JEFFREY ENERGY CENTER 230KV	486	0.49188	-0.48251	
ERE	'CITY OF WINFIELD 69KV'	34.68	0.0308		JEFFREY ENERGY CENTER 230KV	486		-0.461	
ERE	'EVANS ENERGY CENTER 138KV'	66.94189		7 WERE	JEFFREY ENERGY CENTER 230KV	486			
IRE	'GETTY 69KV'	35		5 WERE	JEFFREY ENERGY CENTER 230KV	486		-0.46238	4
		35	0.029			480			+
RE	GILL ENERGY CENTER 69KV				JEFFREY ENERGY CENTER 230KV			-0.45293 -0.46444	+
ERE	SOUTH SENECA 115KV	15		4 WERE	JEFFREY ENERGY CENTER 230KV	486			
ERE	'GILL ENERGY CENTER 138KV'	17.99999		1 WERE	'JEFFREY ENERGY CENTER 230KV'	486		-0.45127	
ERE	'CITY OF IOLA 69KV'	23.063		5 WERE	'ABILENE ENERGY CENTER 115KV'	40			
ERE	'CITY OF ERIE 69KV'	26.53		6 WERE	'ABILENE ENERGY CENTER 115KV'	40			
ERE	'CITY OF ERIE 69KV'	26.53	0.009	6 WERE	'SMOKEY HILLS 34KV'	50	0.36068	-0.35108	
ERE	'CITY OF IOLA 69KV'	23.063		5 WERE	'SMOKEY HILLS 34KV'	50	0.36068	-0.35313	
ERE	'NEOSHO ENERGY CENTER 138KV'	47	0.0093	7 WERE	'ABILENE ENERGY CENTER 115KV'	40	0.36454	-0.35517	
ERE	'NEOSHO ENERGY CENTER 138KV'	47	0.0093	7 WERE	'SMOKEY HILLS 34KV'	50	0.36068	-0.35131	
ERE	'CITY OF ERIE 69KV'	26.53	0.009	6 WERE	'BPU - CITY OF MCPHERSON 115KV'	135	0.35268	-0.34308	j .
ERE	'CITY OF IOLA 69KV'	23.063		5 WERE	'BPU - CITY OF MCPHERSON 115KV'	135		-0.34513	
ERE	'NEOSHO ENERGY CENTER 138KV'	47		7 WERE	'BPU - CITY OF MCPHERSON 115KV'	135			
ERE	'GETTY 69KV'	35		5 WERE	ABILENE ENERGY CENTER 115KV	40		-0.33504	
ERE	'CITY OF WINFIELD 69KV'	34.68		8 WERE	ABILENE ENERGY CENTER 115KV	40		-0.33366	
ERE					SMOKEY HILLS 34KV	40			
	CITY OF WINFIELD 69KV	34.68		8 WERE	SMOKEY HILLS 34KV			-0.3298	
ERE	'GETTY 69KV'	35		5 WERE	SMOKEY HILLS 34KV'	50		-0.33118	
RE	'CITY OF WINFIELD 69KV'	34.68	0.0308		'BPU - CITY OF MCPHERSON 115KV'	135		-0.3218	+
ERE	'EVANS ENERGY CENTER 138KV'	66.94189	0.0386		'ABILENE ENERGY CENTER 115KV'	40		-0.32587	4
ERE	'EVANS ENERGY CENTER 138KV'	66.94189	0.0386		'SMOKEY HILLS 34KV'	50		-0.32201	
RE	'GETTY 69KV'	35		5 WERE	'BPU - CITY OF MCPHERSON 115KV'	135		-0.32318	
ERE	'GILL ENERGY CENTER 138KV'	17.99999		1 WERE	'ABILENE ENERGY CENTER 115KV'	40			
RE	'GILL ENERGY CENTER 69KV'	73		5 WERE	'ABILENE ENERGY CENTER 115KV'	40			
RE	'GILL ENERGY CENTER 69KV'	73		5 WERE	'SMOKEY HILLS 34KV'	50	0.36068	-0.32173	1
ERE	'CITY OF IOLA 69KV'	23.063		5 WERE	'HUTCHINSON ENERGY CENTER 115KV'	120		-0.31677	
ERE	'GILL ENERGY CENTER 138KV'	17,99999	0.0406		'SMOKEY HILLS 34KV'	50		-0.32007	
RE	'NEOSHO ENERGY CENTER 138KV'	47		7 WERE	HUTCHINSON ENERGY CENTER 115KV	120		-0.31495	
ERE	CITY OF ERIE 69KV	26.53		6 WERE	HUTCHINSON ENERGY CENTER 115KV	120		-0.31472	
ERE	'EVANS ENERGY CENTER 138KV'	66.94189		7 WERE	'BPU - CITY OF MCPHERSON 115KV'	135		-0.31401	
IRE	'GILL ENERGY CENTER 138KV'	17.99999		1 WERE	BPU - CITY OF MCPHERSON 115KV	135		-0.31401	
RE	GILL ENERGY CENTER 69KV	73	0.0408		BPU - CITY OF MCPHERSON 115KV	135		-0.31207	
ERE	CITY OF WINFIELD 69KV	34.68		8 WERE	HUTCHINSON ENERGY CENTER 115KV	135		-0.29344	
RE	'GETTY 69KV'	35		5 WERE	'HUTCHINSON ENERGY CENTER 115KV'	120		-0.29482	
RE	'EVANS ENERGY CENTER 138KV'	66.94189		7 WERE	'HUTCHINSON ENERGY CENTER 115KV'	120			4
RE	'GILL ENERGY CENTER 69KV'	73	0.0389		'HUTCHINSON ENERGY CENTER 115KV'	120		-0.28537	1
ERE	'HUTCHINSON ENERGY CENTER 115KV'	263	0.3243		'JEFFREY ENERGY CENTER 345KV'	924		-0.24618	
ERE	'HUTCHINSON ENERGY CENTER 69KV'	67		4 WERE	'JEFFREY ENERGY CENTER 345KV'	924		-0.24626	
ERE	'CLAY CENTER JUNCTION 115KV'	28.7	0.3547	1 WERE	'JEFFREY ENERGY CENTER 345KV'	924	0.5705	-0.21579	/
ERE	'HUTCHINSON ENERGY CENTER 115KV'	263		2 WERE	JEFFREY ENERGY CENTER 230KV	486			
ERE	'HUTCHINSON ENERGY CENTER 69KV'	67	0.3242	4 WERE	JEFFREY ENERGY CENTER 230KV	486	0.49188	-0.16764	
/CP	BULL CREEK 161KV	308			'LACYGNE UNIT 345KV'	958		-0.03075	

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Limiting Facility: Direction:	HOYT - JEFFERY ENERGY CENTER 345KV CKT 1 To->From									
Line Outage:	AUBURN ROAD - JEFFREY ENERGY CENTER 230	KV CKT 1								
Flowgate:	56765567661568515685211107WP									
Date Redispatch Needed:	12/1/07 - 4/1/08									
Season Flowgate Identified:	2007 Winter Peak									
		Aggregate R	elief							
Reservation	Relief Amount	Amount								
103458		1.4	28.9							
103459		3.4	28.9							
103459		4.8	28.9							
103525	9	19.3	28.9		Olah Oratari		Manufacture.	-	1	Destinantsh
Source Control Area	Source	Maximum Increment(M	wo.	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Redispatch Amount (MW)
WERE	'CITY OF ERIE 69KV'	moromorid	26.53	0.01584		JEFFREY ENERGY CENTER 345KV	924			
WERE	CITY OF IOLA 69KV		23.063	0.01269		JEFFREY ENERGY CENTER 345KV	924			
WERE	'NEOSHO ENERGY CENTER 138KV'		47	0.01203		JEFFREY ENERGY CENTER 345KV	924			
WERE	CITY OF IOLA 69KV		23.063	0.01269		JEFFREY ENERGY CENTER 230KV	486			
WERE	CITY OF ERIE 69KV		26.53	0.01584		JEFFREY ENERGY CENTER 230KV	486			
WERE	'GETTY 69KV'		35	0.04836		JEFFREY ENERGY CENTER 345KV	924			
WERE	'NEOSHO ENERGY CENTER 138KV'		47	0.01547		JEFFREY ENERGY CENTER 230KV	486			
WERE	'CITY OF WINFIELD 69KV'		34.68	0.04848	WERE	JEFFREY ENERGY CENTER 345KV	924	0.55914	-0.51066	
WERE	'EVANS ENERGY CENTER 138KV'	66	94189	0.06413	WERE	'JEFFREY ENERGY CENTER 345KV'	924	0.55914	-0.49501	5
WERE	'GILL ENERGY CENTER 69KV'		73	0.06072	WERE	'JEFFREY ENERGY CENTER 345KV'	924	0.55914	-0.49842	5
WERE	'CITY OF WINFIELD 69KV'		34.68	0.04848	WERE	'JEFFREY ENERGY CENTER 230KV'	486	0.53277	-0.48429	6
WERE	'GETTY 69KV'		35	0.04836		'JEFFREY ENERGY CENTER 230KV'	486			
WERE	'GILL ENERGY CENTER 69KV'		73	0.06072		'JEFFREY ENERGY CENTER 230KV'	486			
WERE	'EVANS ENERGY CENTER 138KV'	66	94189	0.06413		'JEFFREY ENERGY CENTER 230KV'	486			
WERE	'NEOSHO ENERGY CENTER 138KV'		47	0.01547		'SMOKEY HILLS 34KV'	50			
WERE	'NEOSHO ENERGY CENTER 138KV'		47	0.01547		'BPU - CITY OF MCPHERSON 115KV'	135			
WERE	'NEOSHO ENERGY CENTER 138KV'		47	0.01547		'ABILENE ENERGY CENTER 115KV'	40			
WERE	'NEOSHO ENERGY CENTER 138KV'		47	0.01547		'HUTCHINSON ENERGY CENTER 115KV'	120			
WERE	'HUTCHINSON ENERGY CENTER 115KV'		263	0.28988		'JEFFREY ENERGY CENTER 345KV'	924			
WERE	'HUTCHINSON ENERGY CENTER 69KV'		67			'JEFFREY ENERGY CENTER 345KV'	924			
WERE	'GILL ENERGY CENTER 69KV'		73	0.06072		'SMOKEY HILLS 34KV'	50			
WERE	'EVANS ENERGY CENTER 138KV'	66	94189	0.06413		'SMOKEY HILLS 34KV'	50			
WERE	'GILL ENERGY CENTER 69KV'		73	0.06072		BPU - CITY OF MCPHERSON 115KV	135			
WERE	'EVANS ENERGY CENTER 138KV' 'GILL ENERGY CENTER 69KV'	66	94189 73	0.06413		'BPU - CITY OF MCPHERSON 115KV' 'ABILENE ENERGY CENTER 115KV'	135			
WERE		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	73 94189	0.06072			40			
WERE	'EVANS ENERGY CENTER 138KV' 'HUTCHINSON ENERGY CENTER 115KV'	66	94189 263	0.06413		'ABILENE ENERGY CENTER 115KV' 'JEFFREY ENERGY CENTER 230KV'	40			
WERE	HUTCHINSON ENERGY CENTER 115KV HUTCHINSON ENERGY CENTER 69KV		263	0.28988		JEFFREY ENERGY CENTER 230KV JEFFREY ENERGY CENTER 230KV	486			
WERE	GILL ENERGY CENTER 69KV		73	0.26961		HUTCHINSON ENERGY CENTER 115KV	400			
WERE	'EVANS ENERGY CENTER 138KV'	22	94189	0.06072		HUTCHINSON ENERGY CENTER 115KV	120			
KACP	BULL CREEK 161KV	00	308	-0.04355		LACYGNE UNIT 345KV	958			
KACP	HAWTHORN 161KV	22	308	-0.04355		LACYGNE UNIT 345KV	958			
	iximum Increment were determine from the Souce and S						500	-0.00307	-0.00102	

miting Facility: irection:	HOYT - JEFFERY ENERGY CENTER 345KV CKT 1 To->From								
ne Outage: bwgate:	AUBURN ROAD - JEFFREY ENERGY CENTER 230k 56765567661568515685211108SP	V CKT 1							
te Redispatch Needed:	Starting 2008 6/1 - 10/1 Until EOC								
ason Flowgate Identified:	2008 Summer Peak		-						
		Aggregate Relief							
servation 1034589	Relief Amount	Amount 0.3 4.8	-						
1034590		0.8 4.8							
1034595	i li	0.7 4.8							
1035259		3.0 4.8	}						
		Maximum		Sink Control		Maximum			Redispatch
ource Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (M
ERE	'HOLTON 115KV' 'HOLTON 115KV'	13.23199		3 WERE 3 WERE	JEFFREY ENERGY CENTER 230KV JEFFREY ENERGY CENTER 345KV	486	0.53167 0.55828	-0.6451 -0.67171	
FRF	CHANUTE 69KV	24.963		7 WERE	UEFEREY ENERGY CENTER 230KV	940.71	0.53167	-0.51597	
ERE	'CHANUTE 69KV'	24.963	0.015	7 WERE	JEFFREY ENERGY CENTER 345KV	940.71	0.55828	-0.54258	
ERE	'CITY OF FREDONIA 69KV'	4.994		1 WERE	'JEFFREY ENERGY CENTER 230KV'	486	0.53167	-0.51156	
ERE	'CITY OF FREDONIA 69KV'	4.994		1 WERE	'JEFFREY ENERGY CENTER 345KV'	940.71	0.55828	-0.53817	
RE	'CITY OF GIRARD 69KV'	6.108		4 WERE	JEFFREY ENERGY CENTER 230KV	486	0.53167	-0.52023	
RE	CITY OF GIRARD 69KV	6.108 13.157		4 WERE 2 WERE	JEFFREY ENERGY CENTER 345KV	940.71	0.55828	-0.54684 -0.51947	
RE	'CITY OF IOLA 69KV' 'CITY OF IOLA 69KV'	13.157	0.012		JEFFREY ENERGY CENTER 230KV JEFFREY ENERGY CENTER 345KV	940.71	0.53167	-0.51947	
ERE	'GETTY 69KV'	35		2 WERE	JEFFREY ENERGY CENTER 345KV	940.71	0.55828		
RE	'OXFORD 138KV'	3	0.0504		'JEFFREY ENERGY CENTER 345KV'	940.71	0.55828		1
RE	'CITY OF MULVANE 69KV'	7.5	0.0568	6 WERE	'JEFFREY ENERGY CENTER 230KV'	486	0.53167	-0.47481	
RE	'CITY OF MULVANE 69KV'	7.5			'JEFFREY ENERGY CENTER 345KV'	940.71	0.55828		
RE	'EVANS ENERGY CENTER 138KV'	162		6 WERE	JEFFREY ENERGY CENTER 230KV	486	0.53167		ļ
RE	'EVANS ENERGY CENTER 138KV' 'GETTY 69KV'	162	0.064	6 WERE 2 WERE	JEFFREY ENERGY CENTER 345KV	940.71	0.55828 0.53167	-0.49368	
RE	'GETTY 69KV' 'HOLTON 115KV'	13,23199		2 WERE 3 WERE	'JEFFREY ENERGY CENTER 230KV' 'ABILENE ENERGY CENTER 115KV'	486		-0.48285	
RE	HOLTON 115KV	13.23199		3 WERE	'BPU - CITY OF MCPHERSON 115KV'	45			
RE	HOLTON 115KV	13.23199		3 WERE	'SMOKEY HILLS 34KV'	50	0.3193	-0.43273	
RE	'HOLTON 115KV'	13.23199	-0.1134	3 WERE	'HUTCHINSON ENERGY CENTER 115KV'	240	0.2895	-0.40293	
RE	'HOLTON 115KV'	13.23199			'HUTCHINSON ENERGY CENTER 69KV'	45		-0.40286	
RE	'CITY OF GIRARD 69KV'	6.108		4 WERE	'ABILENE ENERGY CENTER 115KV'	45	0.30767	-0.29623	
RE	'CITY OF GIRARD 69KV' 'CITY OF GIRARD 69KV'	6.108	0.0114	4 WERE	'BPU - CITY OF MCPHERSON 115KV' 'SMOKEY HILLS 34KV'	165	0.31201 0.3193	-0.30057 -0.30786	
RE	CITY OF GIRARD 69KV	13.157		2 WERE	'ABILENE ENERGY CENTER 115KV'	50		-0.30786	
RE	CITY OF IOLA 69KV	13.157			'BPU - CITY OF MCPHERSON 115KV'	45	0.31201	-0.29981	
RE	CITY OF IOLA 69KV	13.157		2 WERE	'SMOKEY HILLS 34KV'	50			
RE	'CITY OF GIRARD 69KV'	6.108		4 WERE	'HUTCHINSON ENERGY CENTER 115KV'	240		-0.27806	
RE	'CITY OF GIRARD 69KV'	6.108		4 WERE	'HUTCHINSON ENERGY CENTER 69KV'	45		-0.27799	
RE	CITY OF IOLA 69KV	13.157		2 WERE	'HUTCHINSON ENERGY CENTER 115KV'	240			
RE	CITY OF IOLA 69KV' CITY OF MULVANE 69KV'	13.157		2 WERE 6 WERE	'HUTCHINSON ENERGY CENTER 69KV'	45		-0.27723	
RE	CLAY CENTER JUNCTION 115KV	28.7	0.2922		JEFFREY ENERGY CENTER 345KV	940.71	0.55828	-0.26244	
RE	GETTY 69KV	35			'ABILENE ENERGY CENTER 115KV'	45		-0.25885	
RE	'GETTY 69KV'	35			'BPU - CITY OF MCPHERSON 115KV'	165		-0.26319	
RE	'GETTY 69KV'	35			'SMOKEY HILLS 34KV'	50	0.3193	-0.27048	
RE	'HUTCHINSON ENERGY CENTER 115KV'	83		5 WERE	'JEFFREY ENERGY CENTER 345KV'	940.71			
RE	'HUTCHINSON ENERGY CENTER 69KV'	6.999996		3 WERE	JEFFREY ENERGY CENTER 345KV	940.71	0.55828		
RE	'BPU - CITY OF MCPHERSON 115KV' 'CITY OF MULVANE 69KV'	9.000002	0.3120		'JEFFREY ENERGY CENTER 345KV' 'ABILENE ENERGY CENTER 115KV'	940.71	0.55828	-0.24627 -0.25081	
RE	CITY OF MULVANE 69KV	7.5	0.0568	6 WERE	BPU - CITY OF MCPHERSON 115KV	45	0.31201	-0.25081	
RE	'EVANS ENERGY CENTER 138KV'	162			BPU - CITY OF MCPHERSON 115KV	165		-0.24741	
RE	'EVANS ENERGY CENTER 138KV'	162	0.064	6 WERE	'SMOKEY HILLS 34KV'	50	0.3193	-0.2547	
RE	'CLAY CENTER JUNCTION 115KV'	28.7	0.2922	9 WERE	'JEFFREY ENERGY CENTER 230KV'	486	0.53167	-0.23938	[
RE	'EVANS ENERGY CENTER 138KV'	162		6 WERE	ABILENE ENERGY CENTER 115KV	45		-0.24307	
RE	'GETTY 69KV' 'GETTY 69KV'	35			'HUTCHINSON ENERGY CENTER 115KV' 'HUTCHINSON ENERGY CENTER 69KV'	240	0.2895	-0.24068	-
RE	'GETTY 69KV' 'HUTCHINSON ENERGY CENTER 115KV'	35		2 WERE 5 WERE	'HUTCHINSON ENERGY CENTER 69KV' 'JEFFREY ENERGY CENTER 230KV'	45	0.28943	-0.24061 -0.24217	
RE	HUTCHINSON ENERGY CENTER 115KV	6.999996			JEFFREY ENERGY CENTER 230KV	486	0.53167	-0.24217	
RE	CITY OF MULVANE 69KV	7.5		6 WERE	HUTCHINSON ENERGY CENTER 115KV	240	0.2895	-0.23264	
RE	'CITY OF MULVANE 69KV'	7.5	0.0568	6 WERE	'HUTCHINSON ENERGY CENTER 69KV'	45		-0.23257	
RE	'EVANS ENERGY CENTER 138KV'	162	0.064	6 WERE	'HUTCHINSON ENERGY CENTER 115KV'	240	0.2895	-0.2249	
RE	'EVANS ENERGY CENTER 138KV'	162		6 WERE	'HUTCHINSON ENERGY CENTER 69KV'	45		-0.22483	
RE PL	BPU - CITY OF MCPHERSON 115KV	9.000002			JEFFREY ENERGY CENTER 230KV	486			
PL PL	CIMARRON RIVER 115KV' CIMARRON RIVER 115KV'	47		7 WEPL 7 WEPL	'BELOIT 115KV' 'RUSSELL 115KV'	9.25 25.25	0.29924 0.24582	-0.17947	
PL	'CIMARRON RIVER 115KV'	47		7 WEPL	CLIFTON 115KV	59.01147	0.23322	-0.112005	
PL	'CIMARRON RIVER 115KV'	47		7 WEPL	'A. M. MULLERGREN GENERATOR 115KV'	63	0.22919		
PL	'CIMARRON RIVER 115KV'	47	0.1197	7 WEPL	'SPEARVILLE WIND 34KV'	101	0.15573	-0.03596	
P	'GRAND AVENUE 161KV'	65		8 KACP	'LACYGNE UNIT 345KV'	958	-0.00424		
CP	'NORTHEAST 13KV'	59		6 KACP	LACYGNE UNIT 345KV	958			
CP CP	NORTHEAST 161KV	58		6 KACP	LACYGNE UNIT 345KV	958	-0.00424		
CP IPA	'NORTHEAST 161KV' 'TRUMAN 161KV'	58 78.12726		6 KACP 4 SWPA	'LACYGNE UNIT 345KV' 'KEYSTONE DAM 161KV'	958 59.52565	-0.00424 0.02139		
PW	ARSENAL HILL 69KV	70.12720		B AEPW	WEATHERFORD 34KV	59.52565			
PW	'LIEBERMAN 138KV'	137	0.012	6 AEPW	WEATHERFORD 34KV	148		-0.03045	
PW	'TENASKA GATEWAY 345KV'	937.03	0.0129	2 AEPW	'WEATHERFORD 34KV'	148			
	timum Increment were determine from the Souce and Si								

imiting Facility: Direction:	AUBURN ROAD - JEFFREY ENERGY CENTER 230KV C To->From								
	HOYT - JEFFERY ENERGY CENTER 345KV CKT 1								
lowgate:	56851568521567655676611107WP								
Date Redispatch Needed:	12/1/07 - 4/1/08								
Season Flowgate Identified:	2007 Winter Peak								
		Aggregate Relief							
Reservation	Relief Amount	Amount							
1034589									
1034590									
1034595									
1035259	9.3				1				7
	_	Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source		GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
WERE	'CITY OF ERIE 69KV'	26.53	0.00201		'JEFFREY ENERGY CENTER 230KV'	486			
WERE	'CITY OF IOLA 69KV'	23.063	0.0008		'JEFFREY ENERGY CENTER 230KV'	486			
WERE	'NEOSHO ENERGY CENTER 138KV'	47	0.00192		JEFFREY ENERGY CENTER 230KV	486			
WERE	CITY OF WINFIELD 69KV	34.68	0.01343		JEFFREY ENERGY CENTER 230KV	486			
VERE	'GETTY 69KV'	35	0.01329		JEFFREY ENERGY CENTER 230KV	486			
VERE VERE	'EVANS ENERGY CENTER 138KV'	66.94189 17.99999	0.01753		JEFFREY ENERGY CENTER 230KV	486			
VERE	'GILL ENERGY CENTER 138KV'		0.01808		JEFFREY ENERGY CENTER 230KV	480			
	'GILL ENERGY CENTER 69KV'	73	0.01732		JEFFREY ENERGY CENTER 230KV				
VERE VERE	'SOUTH SENECA 115KV'	15 26.53	0.03116		JEFFREY ENERGY CENTER 230KV	486			
	CITY OF ERIE 69KV		0.00201		JEFFREY ENERGY CENTER 345KV	924			
WERE WERE	'CITY OF IOLA 69KV' 'NEOSHO ENERGY CENTER 138KV'	23.063	0.0008		JEFFREY ENERGY CENTER 345KV	924			
WERE		34.68	0.00192		JEFFREY ENERGY CENTER 345KV JEFFREY ENERGY CENTER 345KV	924			
VERE	CITY OF WINFIELD 69KV' GETTY 69KV'	34.68	0.01343			924			
VERE		35 66.94189	0.01329		JEFFREY ENERGY CENTER 345KV	924			
WERE	'EVANS ENERGY CENTER 138KV' 'GILL ENERGY CENTER 138KV'	17.99999	0.01753		JEFFREY ENERGY CENTER 345KV JEFFREY ENERGY CENTER 345KV	924			
VERE	GILL ENERGY CENTER 138KV	17.99999	0.01808		JEFFREY ENERGY CENTER 345KV	924			
WERE	CLAY CENTER JUNCTION 115KV	28.7	0.12575		JEFFREY ENERGY CENTER 230KV	924			
WERE	'HUTCHINSON ENERGY CENTER 115KV'	263	0.12575		JEFFREY ENERGY CENTER 230KV	400			
WERE	HUTCHINSON ENERGY CENTER 115KV	203	0.13681		JEFFREY ENERGY CENTER 230KV	486			
WERE	CLAY CENTER JUNCTION 115KV	28.7	0.12575		JEFFREY ENERGY CENTER 345KV	924			
WERE	'HUTCHINSON ENERGY CENTER 115KV'	263	0.12575		JEFFREY ENERGY CENTER 345KV	924			
WERE	HUTCHINSON ENERGY CENTER 69KV	203	0.13681		JEFFREY ENERGY CENTER 345KV	924			
WERE	'NEOSHO ENERGY CENTER 138KV'	47	0.00192		SMOKEY HILLS 34KV	50			
WERE	'NEOSHO ENERGY CENTER 138KV'	47	0.00192		'BPU - CITY OF MCPHERSON 115KV'	135			
WERE	CITY OF WINFIELD 69KV	34.68	0.01343		SMOKEY HILLS 34KV	50			
WERE	'GETTY 69KV'	35	0.01329		'SMOKEY HILLS 34KV'	50			
WERE	'EVANS ENERGY CENTER 138KV'	66.94189	0.01753		'SMOKEY HILLS 34KV'	50			
WERE	'GILL ENERGY CENTER 69KV'	73	0.01732		'SMOKEY HILLS 34KV'	50			
WERE	'NEOSHO ENERGY CENTER 138KV'	47	0.00192		ABILENE ENERGY CENTER 115KV	40			
WERE	'CITY OF WINFIELD 69KV'	34.68	0.01343		'BPU - CITY OF MCPHERSON 115KV'	135			
WERE	'GETTY 69KV'	35			'BPU - CITY OF MCPHERSON 115KV'	135			
WERE	'NEOSHO ENERGY CENTER 138KV'	47	0.00192		'HUTCHINSON ENERGY CENTER 115KV'	120			
WERE	'EVANS ENERGY CENTER 138KV'	66.94189	0.01753		'BPU - CITY OF MCPHERSON 115KV'	135			
WERE	'GILL ENERGY CENTER 69KV'	73			'BPU - CITY OF MCPHERSON 115KV'	135			
WERE	'EVANS ENERGY CENTER 138KV'	66.94189	0.01753		'ABILENE ENERGY CENTER 115KV'	40			
WERE	'GILL ENERGY CENTER 69KV'	73	0.01732		'ABILENE ENERGY CENTER 115KV'	40			
WERE	'EVANS ENERGY CENTER 138KV'	66.94189	0.01753		'HUTCHINSON ENERGY CENTER 115KV'	120			
WERE	'GILL ENERGY CENTER 69KV'	73			'HUTCHINSON ENERGY CENTER 115KV'	120			

Upgrade:	KELLY - KING HILL N.M. COOP 115KV CKT 1		
Limiting Facility:	KELLY - KING HILL N.M. COOP 115KV CKT 1		
Direction:	To->From		
Line Outage:	HOYT - STRANGER CREEK 345KV CKT 1		
Flowgate:	57217573311567655677211307WP		
Date Redispatch Needed:	12/1/07 - 4/1/08		
Season Flowgate Identified:	2007 Winter Peak		
-			Aggregate Relief
Reservation	Relief Amount		Amount
1024590		0.2	1.4

1034590	0.3								
ource Control Area	Source	Maximum Increment(MW)	SSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Redispatch Amount (MW
ERE	'BROWN COUNTY 115KV'	4.3		WERE	'ABILENE ENERGY CENTER 115KV'	4		-0.34283	
RE	'BROWN COUNTY 115KV'	4.3	-0.29902	WERE	'BPU - CITY OF MCPHERSON 115KV'	13	5 0.0384	-0.33742	
RE	BROWN COUNTY 115KV BROWN COUNTY 115KV	4.3 4.3	-0.29902	WERE	'HUTCHINSON ENERGY CENTER 115KV' 'JEFFREY ENERGY CENTER 230KV'	120		-0.33409 -0.35606	
RE	BROWN COUNTY 115KV	4.3	-0.29902	WERE	JEFFREY ENERGY CENTER 345KV	924		-0.36126	
RE	'BROWN COUNTY 115KV'	4.3	-0.29902	WERE	'SMOKEY HILLS 34KV'	50		-0.33647	
RE	'BROWN COUNTY 115KV'	4.3		WERE	'TECUMSEH ENERGY CENTER 115KV'	111.2788		-0.35937	
ERE ERE	SOUTH SENECA 115KV SOUTH SENECA 115KV	15 15		WERE	JEFFREY ENERGY CENTER 230KV JEFFREY ENERGY CENTER 345KV	486		-0.32703 -0.33223	
RF	SOUTH SENECA 115KV	15	-0.26999		TECUMSEH ENERGY CENTER 115KV	111.278		-0.33034	
RE	'BROWN COUNTY 115KV'	4.3	-0.29902	WERE	'CITY OF AUGUSTA 69KV'	24.09998		-0.30109	
RE	'BROWN COUNTY 115KV'	4.3	-0.29902	WERE	'CITY OF MULVANE 69KV'	3.79	0.00831	-0.30733	
RE	BROWN COUNTY 115KV	4.3	-0.29902		'CITY OF WELLINGTON 69KV'	39.5		-0.3071	
ERE ERE	BROWN COUNTY 115KV BROWN COUNTY 115KV	4.3		WERE	CITY OF WINFIELD 69KV' 'EVANS ENERGY CENTER 138KV'	5.32		-0.30591 -0.30972	
RE	BROWN COUNTY 115KV	4.3	-0.29902	WERE	GILL ENERGY CENTER 138KV	155	5 0.00936	-0.30838	
ERE	'BROWN COUNTY 115KV'	4.3	-0.29902		WACO 138KV'	17.93		-0.30852	
ERE	'SOUTH SENECA 115KV'	15		WERE	'ABILENE ENERGY CENTER 115KV'	40		-0.3138	
ERE	'SOUTH SENECA 115KV' 'SOUTH SENECA 115KV'	15	-0.26999		'BPU - CITY OF MCPHERSON 115KV'	135		-0.30839	
ERE	SOUTH SENECA 115KV SOUTH SENECA 115KV	15 15	-0.26999 -0.26999		'EVANS ENERGY CENTER 138KV'	3.79		-0.2783	
RE	'SOUTH SENECA 115KV'	15	-0.26999		'GILL ENERGY CENTER 138KV'	155		-0.27935	
RE	'SOUTH SENECA 115KV'	15	-0.26999	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.03507	-0.30506	
ERE	'SOUTH SENECA 115KV'	15	-0.26999		'SMOKEY HILLS 34KV'	50		-0.30744	
RE	SOUTH SENECA 115KV	15	-0.26999		WACO 138KV	17.93		-0.27949	
EPL	'GREENLEAF 115KV' 'GREENLEAF 115KV'	8.05	-0.12416		'NORTH WEST GREAT BEND 115KV' 'PLAINVILLE 115KV'	3.75		-0.14484	
EPL	'GREENLEAF 115KV'	8.05	-0.12416		RUSSELL 115KV	5.2		-0.14029	
PL	'GREENLEAF 115KV'	8.05	-0.12416	WEPL	'BELOIT 115KV'	5.250004	-0.01213	-0.11203	i
PL	'CLIFTON 115KV'	70	-0.08337	WEPL	'NORTH WEST GREAT BEND 115KV'	3.75	5 0.02068	-0.10405	
PL	'CLIFTON 115KV'	70	-0.08337		PLAINVILLE 115KV	5.25		-0.0995	
PL RE	'CLIFTON 115KV' 'GETTY 69KV'	70	-0.08337	WEPL	'RUSSELL 115KV' 'JEFFREY ENERGY CENTER 345KV'	19.4 924		-0.09554	
RF	'GETTY 69KV'	35		WERE	JEFFREY ENERGY CENTER 230KV	486		-0.05937	
RE	'CHANUTE 69KV'	45.782	0.00573	WERE	JEFFREY ENERGY CENTER 345KV	924		-0.05651	
RE	'CITY OF ERIE 69KV'	26.53	0.00573	WERE	'JEFFREY ENERGY CENTER 345KV'	924		-0.05651	
RE	CITY OF FREDONIA 69KV	10.294	0.0052	WERE	JEFFREY ENERGY CENTER 345KV	924		-0.05704	
RE RE	'CITY OF FREDONIA 69KV' 'CITY OF GIRARD 69KV'	10.294 9.21	0.0052	WERE	'TECUMSEH ENERGY CENTER 115KV' 'JEFFREY ENERGY CENTER 345KV'	111.2788		-0.05515 -0.05589	
RF	CITY OF IOLA 69KV	23.063	0.00614		JEFFREY ENERGY CENTER 345KV	924		-0.0561	
RE	'CITY OF WINFIELD 69KV'	34.68	0.00689	WERE	JEFFREY ENERGY CENTER 345KV JEFFREY ENERGY CENTER 345KV	924		-0.05535	
RE	'NEOSHO ENERGY CENTER 138KV'	67	0.00637		'JEFFREY ENERGY CENTER 345KV'	924		-0.05587	
RE	CHANUTE 69KV'	45.782	0.00573	WERE	TECUMSEH ENERGY CENTER 115KV	111.2788		-0.05462	
RE RE	CITY OF ERIE 69KV	9.21	0.00573	WERE	TECUMSEH ENERGY CENTER 115KV TECUMSEH ENERGY CENTER 115KV	111.2788		-0.05462	
RE	CITY OF IOLA 69KV	23.063	0.00614	WERE	TECUMSEH ENERGY CENTER 115KV	111.2788		-0.05421	
RE	'CITY OF MULVANE 69KV'	11.999	0.00831	WERE	'JEFFREY ENERGY CENTER 345KV'	924		-0.05393	
RE	'GILL ENERGY CENTER 138KV'	17.99999		WERE	JEFFREY ENERGY CENTER 345KV	924		-0.05288	
ERE	'GILL ENERGY CENTER 69KV' 'NEOSHO ENERGY CENTER 138KV'	118	0.00914	WERE	'JEFFREY ENERGY CENTER 345KV' 'TECUMSEH ENERGY CENTER 115KV'	924		-0.0531	
RF	CHANUTE 69KV	45,782		WERE	JEFFREY ENERGY CENTER 230KV	486		-0.05398	
RE	'CITY OF ERIE 69KV'	26.53	0.00573	WERE	JEFFREY ENERGY CENTER 230KV	486		-0.05131	
RE	'CITY OF FREDONIA 69KV'	10.294	0.0052	WERE	'JEFFREY ENERGY CENTER 230KV'	486		-0.05184	
RE	'CITY OF GIRARD 69KV'	9.21		WERE	'JEFFREY ENERGY CENTER 230KV'	486		-0.05069	
RE	CITY OF IOLA 69KV'	23.063	0.00614		JEFFREY ENERGY CENTER 230KV	486		-0.0509	
RE	'CITY OF WINFIELD 69KV' 'EVANS ENERGY CENTER 138KV'	34.68	0.00689	WERE	JEFFREY ENERGY CENTER 230KV JEFFREY ENERGY CENTER 345KV	486		-0.05015	
RE	'NEOSHO ENERGY CENTER 138KV'	67	0.00637	WERE	JEFFREY ENERGY CENTER 230KV	486		-0.05067	
RE	'CITY OF MULVANE 69KV'	11.999	0.00831	WERE	'JEFFREY ENERGY CENTER 230KV'	486	6 0.05704	-0.04873	
RE	'GILL ENERGY CENTER 69KV'	118	0.00914	WERE	JEFFREY ENERGY CENTER 230KV	486		-0.0479	
RE RE	'EVANS ENERGY CENTER 138KV' 'GETTY 69KV'	313	0.0107	WERE	'JEFFREY ENERGY CENTER 230KV' 'ABILENE ENERGY CENTER 115KV'	486	6 0.05704 0 0.04381	-0.04634	
RE	'GILL ENERGY CENTER 138KV'	17.99999	0.00936	WERE	JEFFREY ENERGY CENTER 230KV	40		-0.04614	
RE	'GETTY 69KV'	35		WERE	'BPU - CITY OF MCPHERSON 115KV'	135		-0.04073	
RE	'GETTY 69KV'	35		WERE	'SMOKEY HILLS 34KV'	50	0.03745	-0.03978	
RE	CHANUTE 69KV	45.782	0.00573	WERE	ABILENE ENERGY CENTER 115KV	40		-0.03808	
RE RF	'CITY OF ERIE 69KV' 'CITY OF FREDONIA 69KV'	26.53 10.294	0.00573	WERE	'ABILENE ENERGY CENTER 115KV' 'ABILENE ENERGY CENTER 115KV'	40		-0.03808 -0.03861	
RE	CITY OF FREDONIA 69KV	23.063		WERE	ABILENE ENERGY CENTER 115KV	40		-0.03767	
RE	'CITY OF WINFIELD 69KV'	34.68	0.00689	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.04381	-0.03692	
RE	'GETTY 69KV'	35	-0.00233	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.03507	-0.0374	
RE RE	'NEOSHO ENERGY CENTER 138KV'	67		WERE	ABILENE ENERGY CENTER 115KV	40		-0.03744	
RE	'CITY OF MULVANE 69KV' 'GILL ENERGY CENTER 69KV'	11.999 118		WERE	'ABILENE ENERGY CENTER 115KV' 'ABILENE ENERGY CENTER 115KV'	40		-0.0355	
RE	GILL ENERGY CENTER 138KV	17.99999	0.00914	WERE	ABILENE ENERGY CENTER 115KV	4(		-0.03467	
RE	'CHANUTE 69KV'	45.782	0.00573	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	0.0384	-0.03267	
RE	'CITY OF ERIE 69KV'	26.53	0.00573	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	5 0.0384	-0.03267	
RE	'EVANS ENERGY CENTER 138KV'	313		WERE	'ABILENE ENERGY CENTER 115KV'	4(		-0.03311	
RE	CHANUTE 69KV	45.782	0.00573	WERE	SMOKEY HILLS 34KV	50		-0.03172	
RE	CITY OF ERIE 69KV CITY OF IOLA 69KV	26.53 23.063	0.00573	WERE	'SMOKEY HILLS 34KV' 'BPU - CITY OF MCPHERSON 115KV'	50	0.03745	-0.03172	
RE	'NEOSHO ENERGY CENTER 138KV'	23.005		WERE	'BPU - CITY OF MCPHERSON 115KV'	135		-0.03203	
RE	'CITY OF IOLA 69KV'	23.063	0.00614	WERE	'SMOKEY HILLS 34KV'	50	0.03745	-0.03131	
RE	'CITY OF WINFIELD 69KV'	34.68	0.00689	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	5 0.0384	-0.03151	
RE	'NEOSHO ENERGY CENTER 138KV'	67	0.00637		'SMOKEY HILLS 34KV'	50		-0.03108	
RE	CITY OF WINFIELD 69KV'	34.68 Operating Points in the	0.00689	WERE dels where limi	'SMOKEY HILLS 34KV'	50	0.03745	-0.03056	I

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 IVVERE
 ICITY OF WINFIELD 69KV
 34.68
 0.00689 |VERE
 ISMOKEY HILLS 34KV

 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

Limiting Facility: Direction:	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORME From->To								
Line Outage:	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1								
Flowgate:	KNOOBHII 41421547785478811307SP								
Date Redispatch Needed:	6/1/07 - 10/1/07								
Season Flowgate Identified:	2007 Summer Peak								
Season nowgate identified.		Aggregate Relief	1						
Reservation	Relief Amount	Amount							
1023236			1						
1023230			1						
1002010	5. 	Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)		Area	Sink		GSF		Amount (MW)
OKGE	SOUTH 4TH ST 69KV	42.7			'EPI WND2 34KV'	102		-0.16022	
OKGE	'SOUTH 4TH ST 69KV'	42.7	-0.03679		SLEEPING BEAR 34KV	120		-0.14939	
OKGE	'SOONER 138KV'	24,99997	-0.00627		'FPLWND2 34KV'	102		-0.1297	
OKGE	'MUSKOGEE 161KV'	166			'FPLWND2 34KV'	102		-0.1236	
OKGE	'MUSKOGEE 161KV'	31			'FPLWND2 34KV'	102		-0.1236	
OKGE	'ONE OAK 345KV'	179	-0.00018	OKGE	'FPLWND2 34KV'	102		-0.12361	6
OKGE	'REDBUD 345KV'	421.65	0.00028	OKGE	'FPLWND2 34KV'	102	0.12343	-0.12315	
OKGE	'REDBUD 345KV'	900	0.00028	OKGE	'FPLWND2 34KV'	102	0.12343	-0.12315	
OKGE	'HORSESHOE LAKE 138KV'	293.999	0.00116	OKGE	'FPLWND2 34KV'	102	0.12343	-0.12227	6
OKGE	'MCCLAIN 138KV'	42	0.00235	OKGE	'FPLWND2 34KV'	102	0.12343	-0.12108	
OKGE	'TINKER 5G 138KV'	62	0.00151		'FPLWND2 34KV'	102		-0.12192	
OKGE	'SOONER 138KV'	24.99997	-0.00627		'SLEEPING BEAR 34KV'	120	0.1126	-0.11887	6
OKGE	'MUSKOGEE 161KV'	31	-0.00017		'SLEEPING BEAR 34KV'	120	0.1126	-0.11277	
OKGE	'MUSKOGEE 161KV'	166			'SLEEPING BEAR 34KV'	120	0.1126	-0.11277	7
OKGE	'ONE OAK 345KV'	179			'SLEEPING BEAR 34KV'	120	0.1126	-0.11278	7
OKGE	'HORSESHOE LAKE 138KV'	293.999			'SLEEPING BEAR 34KV'	120	0.1126	-0.11144	
OKGE	'REDBUD 345KV'	421.65	0.00028		'SLEEPING BEAR 34KV'	120	0.1126	-0.11232	7
OKGE	'REDBUD 345KV'	900			'SLEEPING BEAR 34KV'	120	0.1126	-0.11232	7
OKGE	'MCCLAIN 138KV'	42	0.00235		'SLEEPING BEAR 34KV'	120	0.1126	-0.11025	
OKGE	'TINKER 5G 138KV'	62			'SLEEPING BEAR 34KV'	120	0.1126	-0.11109	7
Maximum Decrement and Max	ximum Increment were determine from the Souce and Sink SF	Operating Points in t	he study mo	dels where limi	ting facility was identified.				

Redispatch Amount (MW)

imiting Facility:	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORME	R CKT 1						
Direction:	From->To							
ine Outage:	GLASS MOUNTAIN - MOORELAND 138KV CKT 1							
lowgate:	KNOOBHIL41421547885599911307SP							
Date Redispatch Needed:	6/1/07 - 10/1/07							
Season Flowgate Identified:	2007 Summer Peak		-					
		Aggregate Relief						
Reservation	Relief Amount	Amount						
102323								
103297	3 5.5							
		Maximum		Sink Control		Maximum		
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor
DKGE	'SOUTH 4TH ST 69KV'	42.7			'FPLWND2 34KV'	102		
DKGE	'SOUTH 4TH ST 69KV'	42.7			'SLEEPING BEAR 34KV'	120		
DKGE	'SOONER 138KV'	24.99997	-0.00627		'FPLWND2 34KV'	102		
DKGE	'MUSKOGEE 161KV'	31	-0.00017		'FPLWND2 34KV'	102		
DKGE	'MUSKOGEE 161KV'	166			'FPLWND2 34KV'	102		
DKGE	'ONE OAK 345KV'	179			'FPLWND2 34KV'	102		
DKGE	'HORSESHOE LAKE 138KV'	293.999			'FPLWND2 34KV'	102		
DKGE	'REDBUD 345KV'	900	0.00028		'FPLWND2 34KV'	102	0.12343	-0.123 <sup>-</sup>
DKGE	'REDBUD 345KV'	421.65			'FPLWND2 34KV'	102	0.12343	-0.123
DKGE	'TINKER 5G 138KV'	62	0.00151		'FPLWND2 34KV'	102		-0.1219
DKGE	'MCCLAIN 138KV'	42	0.00235		'FPLWND2 34KV'	102		
DKGE	'SOONER 138KV'	24.99997	-0.00627		'SLEEPING BEAR 34KV'	120	0.1126	-0.1188
DKGE	'MUSKOGEE 161KV'	31	-0.00017	OKGE	'SLEEPING BEAR 34KV'	120	0.1126	6 -0.1127
DKGE	'MUSKOGEE 161KV'	166			'SLEEPING BEAR 34KV'	120		6 -0.1127
DKGE	'ONE OAK 345KV'	179			'SLEEPING BEAR 34KV'	120		6 -0.1127
DKGE	'HORSESHOE LAKE 138KV'	293.999			'SLEEPING BEAR 34KV'	120		
DKGE	'REDBUD 345KV'	421.65			'SLEEPING BEAR 34KV'	120	0.1126	6 -0.1123
DKGE	'REDBUD 345KV'	900	0.00028		'SLEEPING BEAR 34KV'	120		
DKGE	'TINKER 5G 138KV'	62	0.00151	OKGE	'SLEEPING BEAR 34KV'	120	0.1126	-0.1110
DKGE	'MCCLAIN 138KV'	42	0.00235	OKGE	SLEEPING BEAR 34KV	120	0.1126	6 -0.1102

imiting Facility:	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSF	ORMER	CKT 1							
Direction:	From->To									
ine Outage:	OKGEMTL-5									
lowgate:	KNOOBHIL414210KGEMTL51207SP									
Date Redispatch Needed:	6/1/07 - 10/1/07									
eason Flowgate Identified	d: 2007 Summer Peak									
			Aggregate Relief							
teservation	Relief Amount		Amount							
1023		0.5	1.4							
1032	973	0.9	1.4					1		
and the second second	0		Maximum	GSF	Sink Control	0-1	Maximum	GSF	F	Redispatch
ource Control Area	Source 'SOUTH 4TH ST 69KV'		Increment(MW) 42.7		Area	Sink 'FPLWND2 34KV'	Decrement(MW)		Factor	Amount (MW)
KGE KGE	SOUTH 4TH ST 69KV		42.7	-0.04229		SLEEPING BEAR 34KV	102		-0.13388	
KGE	HORSESHOE LAKE 138KV		293.6641	0.00076		'FPLWND2 34KV'	120		-0.12417	
KGE	MUSKOGEE 161KV		293.0041	-0.00013		'FPLWND2 34KV'	102		-0.09083	
KGE	MUSKOGEE 161KV		31 166	-0.00013		'FPLWND2 34KV'	102		-0.09172	
KGE	MUSKOGEE 345KV		20	-0.00013		'FPLWND2 34KV'	102		-0.09172	
KGE	ONE OAK 345KV		20	-0.00014		'FPLWND2 34KV'	102		-0.09166	
KGE	'REDBUD 345KV'		421.65	0.00012		'FPLWND2 34KV'	102		-0.09173	
KGE	'REDBUD 345KV'		421.65	0.00017		'FPLWND2 34KV'	102		-0.09142	
KGE	'SEMINOLE 138KV'		18.22864	0.00099		'FPLWND2 34KV'	102	0.09159	-0.09142	
KGE	SOONER 138KV		24,99997	-0.00436		'FPLWND2 34KV'	102		-0.09595	
KGE	TINKER 5G 138KV		24.55557	0.000430		'FPLWND2 34KV'	102		-0.0906	
KGE	'MCCLAIN 138KV'		42	0.00155		'FPLWND2 34KV'	102		-0.09004	
KGE	SOONER 138KV		24.99997	-0.00436		SLEEPING BEAR 34KV	102		-0.08624	
KGE	HORSESHOE LAKE 138KV		293.6641	0.00076		SLEEPING BEAR 34KV	120		-0.08112	
KGE	'MCCLAIN 138KV'		42	0.00155		SLEEPING BEAR 34KV	120		-0.08033	
KGE	'MUSKOGEE 161KV'		31	-0.00013		SLEEPING BEAR 34KV	120		-0.08201	
KGE	'MUSKOGEE 161KV'		166	-0.00013		SLEEPING BEAR 34KV	120		-0.08201	
KGE	'MUSKOGEE 345KV'		20	-0.00007		SLEEPING BEAR 34KV	120		-0.08195	
KGE	ONE OAK 345KV		261	-0.00014		SLEEPING BEAR 34KV	120		-0.08202	
KGE	'REDBUD 345KV'		421.65	0.00017		SLEEPING BEAR 34KV	120		-0.08171	
KGE	'REDBUD 345KV'		900	0.00017		SLEEPING BEAR 34KV	120		-0.08171	
KGE	SEMINOLE 138KV		18.22864	0.00099		SLEEPING BEAR 34KV	120		-0.08089	
KGE	'TINKER 5G 138KV'		62	0.00099		SLEEPING BEAR 34KV	120		-0.08089	
KGE	'SOUTH 4TH ST 69KV'		42.7	-0.04229		'HORSESHOE LAKE 138KV'	380	0.00076	-0.04305	
KGE	'SOUTH 4TH ST 69KV'		42.7	-0.04229		'HORSESHOE LAKE 138KV'	86.83594		-0.04305	
KGE	SOUTH 4TH ST 69KV		42.7	-0.04229		'HORSESHOE LAKE 138KV'	91	0.00076	-0.04305	
KGE	'SOUTH 4TH ST 69KV'		42.7	-0.04229		'HORSESHOE LAKE 69KV'	16	0.00079	-0.04308	3
KGE	'SOUTH 4TH ST 69KV'		42.7	-0.04229		'MCCLAIN 138KV'	478		-0.04384	
KGE	'SOUTH 4TH ST 69KV'		42.7	-0.04229		'MUSTANG 138KV'	365.5	0.00148	-0.04377	
KGE	'SOUTH 4TH ST 69KV'		42.7	-0.04229	OKGE	'MUSTANG 69KV'	106	0.00169	-0.04398	3
KGE	'SOUTH 4TH ST 69KV'		42.7	-0.04229	OKGE	'SEMINOLE 138KV'	486.7714	0.00099	-0.04328	3
KGE	'SOUTH 4TH ST 69KV'		42.7	-0.04229	OKGE	'SEMINOLE 345KV'	996		-0.04314	
KGE	'SOUTH 4TH ST 69KV'		42.7	-0.04229		'SMITH COGEN 138KV'	110	0.00144	-0.04373	3
KGE	'SOUTH 4TH ST 69KV'		42.7	-0.04229	OKGE	'AES 161KV'	320	-0.00002	-0.04227	7
KGE	'SOUTH 4TH ST 69KV'		42.7	-0.04229		'MUSKOGEE 345KV'	1516	-0.00007	-0.04222	2
KGE	'SOUTH 4TH ST 69KV'		42.7	-0.04229		'ONE OAK 345KV'	75	-0.00014	-0.04215	5
KGE	'SOUTH 4TH ST 69KV'		42.7	-0.04229		'SOONER 345KV'	513	-0.0028	-0.03949	
KGE	'SOUTH 4TH ST 69KV'		42.7	-0.04229	OKGE	'SOONER 138KV'	505	-0.00436	-0.03793	3

pgrade:	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORM								
miting Facility:	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORM	ER CKT 1							
irection:	From->To								
ne Outage:	OKGEMTL-5								
owgate:	KNOOBHIL414210KGEMTL51306SP								
ate Redispatch Needed:	6/1/06 - 10/1/06								
eason Flowgate Identified:	2006 Summer Peak		_						
		Aggregate Relief							
eservation	Relief Amount	Amount							
1032973	3 0	.2 0.2							
		Maximum		Sink Control		Maximum			Redispatch
ource Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MV
KGE	CONTINENTAL EMPIRE 138KV	63			'FPLWND2 34KV'	101.9968		-0.10163	
KGE	'CONTINENTAL EMPIRE 138KV'	63			'SLEEPING BEAR 34KV'	120		-0.09622	
KGE	'HORSESHOE LAKE 138KV'	380.5	0.00073	OKGE	'FPLWND2 34KV'	101.9968	0.09565	-0.09492	
KGE	'HORSESHOE LAKE 138KV'	337.7	0.00073		'FPLWND2 34KV'	101.9968	0.09565	-0.09492	
KGE	'MCCLAIN 138KV'	42			'FPLWND2 34KV'	101.9968		-0.09407	
KGE	'MUSKOGEE 161KV'	31	-0.00014		'FPLWND2 34KV'	101.9968		-0.09579	
KGE	'MUSKOGEE 161KV'	166	-0.00014	OKGE	'FPLWND2 34KV'	101.9968	0.09565	-0.09579	
KGE	'MUSTANG 138KV'	147.2756			'FPLWND2 34KV'	101.9968		-0.09426	
MPA	'OMPA-FAIRVIEW 69KV'	1.8			'OMPA-KINGFISHER BOWMAN 69KV'	19.7			
MPA	'OMPA-FAIRVIEW 69KV'	1.8	-0.10568	OMPA	'OMPA-PONCA CITY 69KV'	93.59816	-0.00635	-0.09933	
KGE	ONE OAK 345KV	204			'FPLWND2 34KV'	101.9968		-0.09586	
KGE	'REDBUD 345KV'	421.65	0.00013		'FPLWND2 34KV'	101.9968		-0.09552	
KGE	'REDBUD 345KV'	460	0.00013		'FPLWND2 34KV'	101.9968		-0.09552	
KGE	'SEMINOLE 138KV'	17.56006	0.00096		'FPLWND2 34KV'	101.9968		-0.09469	
KGE	'SOONER 138KV'	24.99997	-0.00433		'FPLWND2 34KV'	101.9968		-0.09998	
KGE	SOONER 138KV	24.99997			SLEEPING BEAR 34KV	120		-0.09457	
KGE	SOUTH 4TH ST 69KV	42.7			FPLWND2 34KV	101.9968		-0.13756	
KGE	SOUTH 4TH ST 69KV	42.7	-0.04191		SLEEPING BEAR 34KV	120		-0.13215	
KGE	TINKER 5G 138KV	42.7			FPLWND2 34KV	101.9968		-0.09472	
/FEC	'ANADARKO 138KV'	90			'MORLND 138KV'	260.8777		-0.09472	
/FEC	ANADARKO 138KV ANADARKO 138KV	2.705345			MORLIND 138KV	260.8777		-0.09034	
					MORLIND 138KV	260.8777		-0.09034	
FEC	'ANADARKO 69KV'	76							
KGE	'HORSESHOE LAKE 138KV'	337.7			SLEEPING BEAR 34KV	120		-0.08951	
KGE	'HORSESHOE LAKE 138KV'	380.5			SLEEPING BEAR 34KV	120		-0.08951	
KGE	'MCCLAIN 138KV'	42			'SLEEPING BEAR 34KV'	120		-0.08866	
KGE	'MUSKOGEE 161KV'	31			SLEEPING BEAR 34KV	120		-0.09038	
KGE	'MUSKOGEE 161KV'	166			SLEEPING BEAR 34KV	120		-0.09038	
KGE	'MUSTANG 138KV'	147.2756			SLEEPING BEAR 34KV	120		-0.08885	
KGE	'ONE OAK 345KV'	204			'SLEEPING BEAR 34KV'	120		-0.09045	
KGE	'REDBUD 345KV'	460	0.00013		'SLEEPING BEAR 34KV'	120		-0.09011	
KGE	'REDBUD 345KV'	421.65			'SLEEPING BEAR 34KV'	120		-0.09011	
KGE	'SEMINOLE 138KV'	17.56006			'SLEEPING BEAR 34KV'	120		-0.08928	
KGE	'TINKER 5G 138KV'	62			'SLEEPING BEAR 34KV'	120		-0.08931	
KGE	'SOUTH 4TH ST 69KV'	42.7			'MCCLAIN 138KV'	478		-0.04349	
KGE	'SOUTH 4TH ST 69KV'	42.7			'MUSKOGEE 345KV'	1516		-0.04185	
(GE	'SOUTH 4TH ST 69KV'	42.7			'MUSTANG 138KV'	218.2244		-0.0433	
(GE	'SOUTH 4TH ST 69KV'	42.7			'MUSTANG 69KV'	106		-0.0435	
KGE	'SOUTH 4TH ST 69KV'	42.7			'ONE OAK 345KV'	132		-0.0417	
KGE	'SOUTH 4TH ST 69KV'	42.7			'REDBUD 345KV'	440		-0.04204	
KGE	'SOUTH 4TH ST 69KV'	42.7			'SEMINOLE 138KV'	487.44		-0.04287	
KGE	'SOUTH 4TH ST 69KV'	42.7	-0.04191	OKGE	'SEMINOLE 345KV'	996	0.00081	-0.04272	
KGE	'SOUTH 4TH ST 69KV'	42.7			'SMITH COGEN 138KV'	110		-0.04325	
KGE	'SOUTH 4TH ST 69KV'	42.7			'SOONER 138KV'	505		-0.03758	
KGE	'SOUTH 4TH ST 69KV'	42.7	-0.04191	OKCE	'SOONER 345KV'	513	-0.0028	-0.03911	1

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

 Upgrade:
 LACYGNE-PAQLA-WEST GARDER 345KV

 Limiting Facility:
 WEST GARDNER (WGARD 11) 345/161/13.8KV TRANSFORMER CKT 11

 Direction:
 From->To

 Line Outage:
 CRAIG-WEST GARDNER 345KV CKT 1

 Flowgate:
 WGARD112751157975796513307SH

 Date Redispatch Needed:
 6/1 - 10/1 Until EOC of Upgrade

 Season Flowgate
 2007 Summer Shoulder

Description	Delief Amount	Aggregate Relief						
Reservation 1035259	Relief Amount	Amount 5 1.6	5					
		Maximum	Sink Control		Maximum			Redispatch
ource Control Area	Source	Increment(MW)	GSF Area	Sink	Decrement(MW)	GSF	Factor	Amount (MV
ACP ACP	'BULL CREEK 161KV' 'GARDNER 161KV'	308	-0.35434 KACP -0.29097 KACP	'LACYGNE UNIT 345KV' 'LACYGNE UNIT 345KV'	958	0.12687 0.12687	-0.48121	1
ACP	BULL CREEK 161KV	308		'HAWTHORN 161KV'	455		-0.2988	
ACP	'BULL CREEK 161KV'	308		'HAWTHORN 161KV'	84.63129		-0.2988	
ACP ACP	'BULL CREEK 161KV' 'BULL CREEK 161KV'	308		'MONTROSE 161KV' 'IATAN 345KV'	356.2435	-0.03291 -0.05881	-0.32143	3
ACP	'GARDNER 161KV'	11		MONTROSE 161KV	356.2435		-0.25806	5
ACP	'GARDNER 161KV'	11		'HAWTHORN 161KV'	455			}
ACP	'GARDNER 161KV'	11		'HAWTHORN 161KV'	84.63129	-0.05554	-0.23543	8
ACP ACP	'GARDNER 161KV' 'PAOLA COMBUSTION TURBINES 161KV'	11		'IATAN 345KV' 'LACYGNE UNIT 345KV'	396	-0.05881 0.12687	-0.23216	
ACP	'GRAND AVENUE 161KV'	65	-0.06494 KACP	LACYGNE UNIT 345KV	958	0.12687	-0.19181	
ACP	'HAWTHORN 161KV'	298.3687	-0.05554 KACP	'LACYGNE UNIT 345KV'	958	0.12687	-0.18241	
ACP	'NORTHEAST 13KV'	56		'LACYGNE UNIT 345KV'	958		-0.19028	
ACP ACP	'NORTHEAST 13KV' 'NORTHEAST 13KV'	56		'LACYGNE UNIT 345KV' 'LACYGNE UNIT 345KV'	958	0.12687	-0.19028	
ACP	'NORTHEAST 13KV'	59		'LACYGNE UNIT 345KV'	958		-0.19028	3
ACP	'NORTHEAST 161KV'	55		'LACYGNE UNIT 345KV'	958			3
ACP ACP	'NORTHEAST 161KV' 'NORTHEAST 161KV'	58	-0.06341 KACP -0.06341 KACP	'LACYGNE UNIT 345KV' 'LACYGNE UNIT 345KV'	958	0.12687 0.12687	-0.19028 -0.19028	3
ACP	NORTHEAST 161KV	58	-0.06341 KACP	LACYGNE UNIT 345KV	958	0.12687	-0.19028	3
ACP	'MONTROSE 161KV'	24.75648	-0.03291 KACP	'LACYGNE UNIT 345KV'	958	0.12687	-0.15978	5
ACP	CITY OF HIGGINSVILLE 69KV	36	6 -0.02817 KACP	'LACYGNE UNIT 345KV'	958	0.12687	-0.15504	<u> </u>
ACP	'MARSHALL 161KV' 'LAWRENCE ENERGY CENTER 115KV'	54.1		'LACYGNE UNIT 345KV' 'CITY OF BURLINGTON 69KV'	958	0.12687 0.0849	-0.14879	
ERE	'LAWRENCE ENERGY CENTER 115KV'	78		COFFEY COUNTY NO. 2 SHARPE 69KV	19.96	0.0849	-0.12208	3
ERE	'LAWRENCE ENERGY CENTER 230KV'	48.01093	-0.03125 WERE	'CITY OF BURLINGTON 69KV'	10.5	0.0849		i i
ERE ERE	'LAWRENCE ENERGY CENTER 230KV' 'LAWRENCE ENERGY CENTER 115KV'	48.01093		'COFFEY COUNTY NO. 2 SHARPE 69KV' 'CITY OF AUGUSTA 69KV'	19.96	0.0849	-0.11615	5
ERE	LAWRENCE ENERGY CENTER 115KV	78	-0.03718 WERE	CITY OF WELLINGTON 69KV	39.5	0.04443	-0.07763	
'ERE	'LAWRENCE ENERGY CENTER 115KV'	78	-0.03718 WERE	'CITY OF WINFIELD 69KV'	39.90401	0.03984	-0.07702	
ERE	'LAWRENCE ENERGY CENTER 115KV'	78	-0.03718 WERE	'EVANS ENERGY CENTER 138KV'	305	0.04138	-0.07856	6
ERE	'LAWRENCE ENERGY CENTER 115KV' 'LAWRENCE ENERGY CENTER 115KV'	78		'GILL ENERGY CENTER 138KV' 'WACO 138KV'	155	0.04226 0.04217	-0.07944	
/ERE	'LAWRENCE ENERGY CENTER 230KV'	48.01093		'CITY OF AUGUSTA 69KV'	26.1	0.04443	-0.07568	8
'ERE	'LAWRENCE ENERGY CENTER 230KV'	48.01093		'GILL ENERGY CENTER 138KV'	155		-0.07351	
'ERE	'LAWRENCE ENERGY CENTER 230KV' 'LAWRENCE ENERGY CENTER 230KV'	48.01093 48.01093	-0.03125 WERE -0.03125 WERE	'WACO 138KV' 'CITY OF WELLINGTON 69KV'	17.947 39.5	0.04217 0.04045	-0.07342	2
ERE	'LAWRENCE ENERGY CENTER 230KV'	48.01093		CITY OF WELLINGTON 69KV	39.5	0.04045	-0.0717	
/ERE	'LAWRENCE ENERGY CENTER 230KV'	48.01093		'EVANS ENERGY CENTER 138KV'	305	0.04138	-0.07263	5
ACP	'PAOLA COMBUSTION TURBINES 161KV'	77		'MONTROSE 161KV'	356.2435		-0.06811	
/ERE /ERE	SOUTH SENECA 115KV	15		'GILL ENERGY CENTER 138KV' 'WACO 138KV'	155 17.947	0.04226	-0.06723	
/ERE	'SOUTH SENECA 115KV' 'CITY OF IOLA 69KV'	15		CITY OF BURLINGTON 69KV	17.947	0.04217		1
/ERE	'CITY OF IOLA 69KV'	17.763	0.01867 WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.0849	-0.06623	5
/ERE	LAWRENCE ENERGY CENTER 115KV	78		'CHANUTE 69KV'	46.617		-0.06451	
/ERE /ERE	'LAWRENCE ENERGY CENTER 115KV' 'SOUTH SENECA 115KV'	78		'CITY OF ERIE 69KV' 'EVANS ENERGY CENTER 138KV'	19.965 305	0.02733 0.04138	-0.06451	
VERE	'LAWRENCE ENERGY CENTER 230KV'	48.01093		CHANUTE 69KV	46.617	0.02733	-0.05858	3
/ERE	'LAWRENCE ENERGY CENTER 230KV'	48.01093	-0.03125 WERE	'CITY OF ERIE 69KV'	19.965		-0.05858	
/ERE	CHANUTE 69KV	33.983	0.02733 WERE	'CITY OF BURLINGTON 69KV'	10.5	0.0849	-0.05757	·
/ERE /ERE	'LAWRENCE ENERGY CENTER 115KV' 'LAWRENCE ENERGY CENTER 230KV'	78 48.01093	-0.03718 WERE -0.03125 WERE	'CITY OF IOLA 69KV' 'CITY OF IOLA 69KV'	19.865	0.01867	-0.05585	
ACP	'PAOLA COMBUSTION TURBINES 161KV'	40.01033		'HAWTHORN 161KV'	455	-0.05554	-0.04532	3
ACP	'PAOLA COMBUSTION TURBINES 161KV'	77	-0.10102 KACP	'HAWTHORN 161KV'	84.63129	-0.05554	-0.04548	}
IIPU	TWA 161KV	32.1		SOUTH HARPER 161KV	75.67749	-0.01724	-0.04617	
WPA /ERE	'TRUMAN 161KV' 'EVANS ENERGY CENTER 138KV'	83.2641 438		'KEYSTONE DAM 161KV' 'COFFEY COUNTY NO. 2 SHARPE 69KV'	56.56253 19.96	0.02617 0.0849	-0.04476	
'ERE	'GILL ENERGY CENTER 138KV'	17.99999	0.04226 WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.0849	-0.04264	
ERE	'NEOSHO ENERGY CENTER 138KV'	67	0.04202 WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96	0.0849	-0.04288	
ERE ERE	'GETTY 69KV' 'GILL ENERGY CENTER 69KV'	35		COFFEY COUNTY NO. 2 SHARPE 69KV COFFEY COUNTY NO. 2 SHARPE 69KV	19.96	0.0849	-0.04173	5
ACP	PAOLA COMBUSTION TURBINES 161KV	118		IATAN 345KV	396	-0.05881	-0.04218	1
WPA	'TRUMAN 161KV'	83.2641	-0.01859 SWPA	'FORT GIBSON 161KV'	40.37325	0.02217	-0.04076	i
WPA	TRUMAN 161KV	83.2641		DENISON 138KV	56.56253		-0.03991	
NPA NPA	'TRUMAN 161KV' 'TRUMAN 161KV'	83.2641 83.2641		'TENKILLER FERRY_161KV' 'WEBBERS FALLS_161KV'	15.98941 37.17537	0.02038	-0.03897	
WPA	TRUMAN 161KV	83.2641		'EUFAULA 138KV'	48.36796			2
WPA	'TRUMAN 161KV'	83.2641	-0.01859 SWPA	'EUFAULA 161KV' 'ROBERT S. KERR 161KV'	24.18398	0.01992	-0.03851	
WPA MDE	TRUMAN 161KV	83.2641		RUBERT S. KERR 161KV	101.9325		-0.0356	
WPA	'LARUSSEL 161KV' 'TRUMAN 161KV'	220.2491 83.2641		'ELK RIVER 345KV' 'OZARK 161KV'	46 74.35075	0.05083 0.01424	-0.0339	3
NDE	'ASBURY 161KV'	20	0.01885 EMDE	'ELK RIVER 345KV'	46	0.05083	-0.03198	
ACP	'GRAND AVENUE 161KV'	65		MONTROSE 161KV	356.2435		-0.03203	
IPU ACP	'LAKE ROAD 161KV' 'NORTHEAST 13KV'	91		'SOUTH HARPER 161KV' 'MONTROSE 161KV'	75.67749		-0.03216	5
ACP	NORTHEAST 13KV	59		MONTROSE 161KV MONTROSE 161KV	356.2435		-0.0305	5
ACP	'NORTHEAST 13KV'	56		'MONTROSE 161KV'	356.2435			
ACP	'NORTHEAST 13KV'	58		'MONTROSE 161KV'	356.2435		-0.0305	i
ACP ACP	'NORTHEAST 161KV' 'NORTHEAST 161KV'	58	-0.06341 KACP -0.06341 KACP	'MONTROSE 161KV' 'MONTROSE 161KV'	356.2435 356.2435	-0.03291 -0.03291	-0.0305	
ACP	NORTHEAST 161KV	58		MONTROSE 161KV	356.2435		-0.0305	5
	NORTHEAST 161KV				356 2435		-0.0305	

owgate. <sup>*</sup> 534225342           tase Redispatch Needed:         (1/07 - 10)           aason Flowgate Identified:         2007 Summ           seservation         Relief Amou           1023236         Source           EPW         IARSENAL           PW         IARSENAL           EPW         IARSENAL <th>ILAID - SOUTH SHREVEPORT 138KV CKT 1           34281534145344611407SP           10/107           ummer Peak           umount           2.8           JAL HILL 69KV'           JAL HILL 69KV           JAL HILL 69KV           JAL HILL 69KV           JAL HILL 69KV           JAL HILL 69KV</th> <th>Aggregate Relief Amount 2.8 Maximum Increment(MW) 75 75 75 75 75 75 75 75 75 75 75 75 75</th> <th>GSF -0.3607 -0.3607 -0.3607 -0.3607 -0.3607 -0.3607</th> <th>1 AEPW 1 AEPW 1 AEPW</th> <th>Sink 'COGENTRIX 345KV' 'COMANCHE 138KV' 'COMANCHE 69KV'</th> <th>Maximum Decrement(MW) 200 160</th> <th>-0.00424</th> <th>Factor -0.35647</th> <th>Redispatch Amount (MW)</th>	ILAID - SOUTH SHREVEPORT 138KV CKT 1           34281534145344611407SP           10/107           ummer Peak           umount           2.8           JAL HILL 69KV'           JAL HILL 69KV	Aggregate Relief Amount 2.8 Maximum Increment(MW) 75 75 75 75 75 75 75 75 75 75 75 75 75	GSF -0.3607 -0.3607 -0.3607 -0.3607 -0.3607 -0.3607	1 AEPW 1 AEPW 1 AEPW	Sink 'COGENTRIX 345KV' 'COMANCHE 138KV' 'COMANCHE 69KV'	Maximum Decrement(MW) 200 160	-0.00424	Factor -0.35647	Redispatch Amount (MW)
owgate.         534225342           tak Redispatch Needed:         61/07 - 10/ 2007 Summ           sason Flowgate Identified:         2007 Summ           servation         Relief Amou           1023236         Source           PW         IARSENAL	34281534145344611407SP 10/1/07 ummer Peak 	Amount 3 2.8 Maximum Increment(MW) 75 75 75 75 75 75 75 75 75 75	GSF -0.3607 -0.3607 -0.3607 -0.3607 -0.3607 -0.3607	Area 1 AEPW 1 AEPW 1 AEPW 1 AEPW 1 AEPW	COGENTRIX 345KV' COMANCHE 138KV'	Decrement(MW) 200	-0.00424		
ate Fedispatch Needed:         6/1/07 - 100           asson Flowgate Identified:         2007 Summ           esservation         Relief Amou           1023236         Source           burce Control Area         Source           EPW         IARSENAL	10/1/07 Jmmer Peak Jmount 2.8 IAL HILL 69KV IAL HILL 69KV	Amount 3 2.8 Maximum Increment(MW) 75 75 75 75 75 75 75 75 75 75	GSF -0.3607 -0.3607 -0.3607 -0.3607 -0.3607 -0.3607	Area 1 AEPW 1 AEPW 1 AEPW 1 AEPW 1 AEPW	COGENTRIX 345KV' COMANCHE 138KV'	Decrement(MW) 200	-0.00424		
eason Flowgate Identified:         2007 Summ           servation         Relief Amo           1023236         Relief Amo           ource Control Area         Source           EPW         ARSENAL           EPW         <	Jimmer Peak Jimount 2.8 JAL HILL 69KV* JAL 100K* JA	Amount 3 2.8 Maximum Increment(MW) 75 75 75 75 75 75 75 75 75 75	GSF -0.3607 -0.3607 -0.3607 -0.3607 -0.3607 -0.3607	Area 1 AEPW 1 AEPW 1 AEPW 1 AEPW 1 AEPW	COGENTRIX 345KV' COMANCHE 138KV'	Decrement(MW) 200	-0.00424		
eservation Relief Amoi 1023236 0urce Control Area Source EPW IARSENAL	Innount         2.8           IAL HILL 69KV'         10.1	Amount 3 2.8 Maximum Increment(MW) 75 75 75 75 75 75 75 75 75 75	GSF -0.3607 -0.3607 -0.3607 -0.3607 -0.3607 -0.3607	Area 1 AEPW 1 AEPW 1 AEPW 1 AEPW 1 AEPW	COGENTRIX 345KV' COMANCHE 138KV'	Decrement(MW) 200	-0.00424		
1022236           Fource Control Area         Source           EPW         ARSENAL           EPW         IARSENAL           EPW         IEPEW	2.8 IAL HILL 69KV	Amount 3 2.8 Maximum Increment(MW) 75 75 75 75 75 75 75 75 75 75	GSF -0.3607 -0.3607 -0.3607 -0.3607 -0.3607 -0.3607	Area 1 AEPW 1 AEPW 1 AEPW 1 AEPW 1 AEPW	COGENTRIX 345KV' COMANCHE 138KV'	Decrement(MW) 200	-0.00424		
1023236           ource Control Area         Source           EPW         ARSENAL           EPW	2.8 IAL HILL 69KV	3 2.8 Maximum Increment(MW) 75 75 75 75 75 75 75 75 75 75 75 75	GSF -0.3607 -0.3607 -0.3607 -0.3607 -0.3607 -0.3607	Area 1 AEPW 1 AEPW 1 AEPW 1 AEPW 1 AEPW	COGENTRIX 345KV' COMANCHE 138KV'	Decrement(MW) 200	-0.00424		
Ourse Control Area         Source           EPW         JARSENAL           EPW         JARSENAL           EPW         JARSENAL           EPW         ARSENAL           EPW         ARSENAL           EPW         ARSENAL           EPW         ARSENAL           EPW         ARSENAL           EPW         ARSENAL           EPW         JARSENAL           EPW         LIEBERMA	AAL HILL 69KV AAL HILL 69KV	Maximum Increment(MW) 75 75 75 75 75 75 75 75 75 75 75 75 75	GSF -0.3607 -0.3607 -0.3607 -0.3607 -0.3607 -0.3607	Area 1 AEPW 1 AEPW 1 AEPW 1 AEPW 1 AEPW	COGENTRIX 345KV' COMANCHE 138KV'	Decrement(MW) 200	-0.00424		
EPW         ARSENAL           EPW	AL HILL 69KV AL HILL 69KV	Increment(MW) 75 75 75 75 75 75 75 75 75 75	-0.3607 -0.3607 -0.3607 -0.3607 -0.3607 -0.3607	Area 1 AEPW 1 AEPW 1 AEPW 1 AEPW 1 AEPW	COGENTRIX 345KV' COMANCHE 138KV'	Decrement(MW) 200	-0.00424		
EPW         IARSENAL           EPW         IEBERMA	AL HILL 69KV AL HILL 69KV	75 75 75 75 75 75 75 75 75 75 75	-0.3607 -0.3607 -0.3607 -0.3607 -0.3607 -0.3607	1 AEPW 1 AEPW 1 AEPW 1 AEPW	COGENTRIX 345KV' COMANCHE 138KV'	200	-0.00424		Amount (MV)
EPW         IARSENAL           EPW         IEBERMA           EPW         ILIEBERMA           EPW         ILIEBERMA           EPW         ILIEBERMA </td <td>AL HILL 69KV AL HILL 69KV</td> <td>75 75 75 75 75 75 75 75 75 75</td> <td>-0.3607 -0.3607 -0.3607 -0.3607 -0.3607</td> <td>1 AEPW 1 AEPW 1 AEPW</td> <td>'COMANCHE 138KV'</td> <td></td> <td></td> <td></td> <td>1 .</td>	AL HILL 69KV AL HILL 69KV	75 75 75 75 75 75 75 75 75 75	-0.3607 -0.3607 -0.3607 -0.3607 -0.3607	1 AEPW 1 AEPW 1 AEPW	'COMANCHE 138KV'				1 .
EPW         IARSENAL           EPW         IEBERMA	AL HILL 69KV AL HILL 69KV	75 75 75 75 75 75 75 75 75	-0.3607 -0.3607 -0.3607 -0.3607	1 AEPW 1 AEPW					
EPW         IARSENAL           EPW         IEBERMA           EPW         IEBERMA           EPW         IEBERMA           EPW         IEBERMA           EPW         IEBERMA	AL HILL 69KV AL HILL 69KV	75 75 75 75 75 75 75 75	-0.3607 -0.3607 -0.3607	1 AEPW			-0.00564	-0.35507	
EPW         IARSENAL           EPW         IARSENAL           EPW         IARSENAL           EPW         IARSENAL           EPW         IARSENAL           EPW         IARSENAL           EEW         IARSENAL           EEW         IARSENAL           EEW         IARSENAL           EEPW         IEBERMA           EEPW         IEBERMA           EEPW         IEBERMA           EEPW         IEB	IAL HILL 69KV IAL HILL 69KV	75 75 75 75 75 75 75	-0.3607			63	-0.00565	-0.35506	
EPW         'ARSENAL           EPW         'LIEBERMA           EPW         'LIEBERMA           EPW         'LIEBERMA           EPW         'LIEBERMA           EPW         'LIEBERMA	AL HILL 69KV IAL HILL 69KV IAL HILL 69KV IAL HILL 69KV IAL HILL 69KV IAL HILL 69KV IAL HILL 69KV	75 75 75 75 75	-0.36071		'EASTMAN 138KV'	355	-0.0133	-0.34741	
EPW         IARSENAL           EPW         IEBERMA           EPW         LIEBERMA	IAL HILL 69KV IAL HILL 69KV IAL HILL 69KV IAL HILL 69KV IAL HILL 69KV IAL HILL 69KV	75 75 75			FITZHUGH 161KV	126	-0.00244	-0.35827	<b> </b>
XEPW         YARSENAL           XEPW         YARSENAL           XEPW         YARSENAL           XEPW         YARSENAL           VEPW	IAL HILL 69KV IAL HILL 69KV IAL HILL 69KV IAL HILL 69KV IAL HILL 69KV	75 75			'KNOXLEE 138KV'	284	-0.00944	-0.35127	I
EPW         IARSENAL           EPW         ILIEBERMA           EPW         ILIEBERMA <td>IAL HILL 69KV IAL HILL 69KV IAL HILL 69KV IAL HILL 69KV</td> <td>75</td> <td></td> <td></td> <td>LEBROCK 345KV</td> <td>365</td> <td>-0.01842</td> <td>-0.34229</td> <td></td>	IAL HILL 69KV IAL HILL 69KV IAL HILL 69KV IAL HILL 69KV	75			LEBROCK 345KV	365	-0.01842	-0.34229	
XEPW         YARSENAL           XEPW         YARSENAL           XEPW         YARSENAL           XEPW         YARSENAL           VERPW         YARSENAL           VERPW         YARSENAL           XEPW	ial Hill 69KV Ial Hill 69KV Ial Hill 69KV				'NORTHEASTERN STATION 138KV'	405	-0.00392	-0.35679	
EPW         IARSENAL           EPW         IARSENAL           EPW         IARSENAL           EPW         IARSENAL           EPW         IARSENAL           EEPW         ILIEBERMA           EEPW         LIEBERMA	IAL HILL 69KV' IAL HILL 69KV'	/5			NORTHEASTERN STATION 138KV	95	-0.00392	-0.35679	
EPW         IARSENAL           EPW         IEBERM           EPW         LIEBERM	AL HILL 69KV	75			'NORTHEASTERN STATION 345KV'	645	-0.00391	-0.3568	
EPW         IARSENAL           EPW         ILEBERMA		75			'OEC 345KV'	269	-0.00412	-0.35659	
EPW         IARSENAL           EPW         IEBERM           EPW         LIEBERM		75			PIRKEY GENERATION 138KV	248	-0.02473	-0.33598	
EPW         IARSENAL           EPW         ILEBERM           EPW         ILIEBERM		75			'RIVERSIDE STATION 138KV'	675	-0.00425	-0.35646	
EPW         IARSENAL           EPW         ILEBERMA		75			SOUTHWESTERN STATION 138KV	355	-0.00558	-0.35513	
XEPW         YARSENAL           XEPW         YARSENAL           XEPW         YARSENAL           XEPW         YARSENAL           VERPW         YARSENAL           XEPW         YARSENAL           XEPW         YARSENAL           XEPW         YEBERMA           YEBERMA         YEBERMA           YEBERMA         YEBERMA           YEBERMA         YEBERMA		75			'TULSA POWER STATION 138KV'	112	-0.00421	-0.3565	
AEPW         'ARSENAL           AEPW         'ARSENAL           AEPW         'ARSENAL           AEPW         'ARSENAL           AEPW         'ARSENAL           AEPW         'LIEBERNA		75			TULSA POWER STATION 138KV	147	-0.00421	-0.3565	
AEPW         'ARSENAL           AEPW         'ARSENAL           AEPW         'ARSENAL           AEPW         'LIEBERMA		75			WEATHERFORD 34KV	148	-0.00529	-0.35542 -0.35558	
AEPW         'ARSENAL           AEPW         'ARSENAL           AEPW         'LEBERMA		75			WELEETKA 138KV'	70	-0.00513		
XEPW         'ARSENAL           XEPW         'LIEBERMA		75			'WELSH 345KV' 'WILKES 138KV'	990 393,9893	-0.01281	-0.3479	
AEPW         'LIEBERMA		75				393.9893	-0.02873	-0.33198	
AEPW         LIEBERMA           AEPW         'LIEBERMA					WILKES 345KV'	126	-0.01663		
AEPW         'LIEBERMA           AEPW         'LIEBERMA           AEPW         'LIEBERMA           AEPW         'LIEBERMA           AEPW         'LIEBERMA           AEPW         'LIEBERMA		137			'FITZHUGH 161KV' 'NORTHEASTERN STATION 138KV'	405	-0.00244	-0.2095	
AEPW 'LIEBERMA AEPW 'LIEBERMA AEPW 'LIEBERMA AEPW 'LIEBERMA		137			NORTHEASTERN STATION 138KV	405	-0.00392	-0.20802	
AEPW 'LIEBERMA AEPW 'LIEBERMA AEPW 'LIEBERMA		137			'NORTHEASTERN STATION 136KV	95	-0.00392	-0.20802	
AEPW 'LIEBERMA AEPW 'LIEBERMA		137			OEC 345KV	269	-0.00391	-0.20803	
EPW LIEBERMA		137			TULSA POWER STATION 138KV	269	-0.00412	-0.20782	
		137			TULSA POWER STATION 138KV	112	-0.00421	-0.20773	
	RMAN 138KV	137			COGENTRIX 345KV	200	-0.00421	-0.20773	
	RMAN 138KV	137			COGENTRIA 345KV	160	-0.00424	-0.2077	
	RMAN 138KV RMAN 138KV	137			COMANCHE 138KV COMANCHE 69KV	63	-0.00565	-0.2063	
	RMAN 138KV	137			'EASTMAN 138KV'	355	-0.00565	-0.20629	
	RMAN 138KV	137			KNOXLEE 138KV	284	-0.00944	-0.19664	
	RMAN 138KV	137			LEBROCK 345KV	365	-0.00944	-0.2025	
	RMAN 138KV	137			'RIVERSIDE STATION 138KV'	675	-0.01642	-0.20769	
	RMAN 138KV	137			SOUTHWESTERN STATION 138KV	355	-0.00423	-0.20709	1
	RMAN 138KV	137		4 AEPW	WELEETKA 138KV	70	-0.00513	-0.20681	1
	RMAN 138KV	137			WELSH 345KV	990	-0.01281	-0.19913	
	RMAN 138KV	137			WILKES 345KV	311	-0.01201	-0.19531	
	RMAN 138KV	137		4 AEPW	'PIRKEY GENERATION 138KV'	248	-0.02473	-0.18721	
		137			WILKES 138KV	393.9893	-0.02473	-0.18321	
EPW 'ARSENAL	RMAN 138KV'	75			LIEBERMAN 138KV	91	-0.21194	-0.14877	

Upgrade:	MARTIN CITY - TURNER ROAD SUBSTATION 161KV C	KT 1							
	MARTIN CITY - TURNER ROAD SUBSTATION 161KV C								
	To->From								
Line Outage:	REDEL - STILWELL 161KV CKT 1								
Flowgate:	59210592591580535796911307SP								
Date Redispatch Needed:	6/1/07 - 10/1/07								
Season Flowgate Identified:	2007 Summer Peak								
		Aggregate Relief							
	Relief Amount	Amount							
1035259	0.2	0.2							
		Maximum		Sink Control		Maximum			Redispatch
	Source	Increment(MW)		Area	Sink	Decrement(MW)			Amount (MW)
MIPU	'ARIES 161KV'	595	-0.02927		'SOUTH HARPER 161KV'	313.0953			1
MIPU	'GREENWOOD 161KV'	255.8	-0.03697		'SOUTH HARPER 161KV'	313.0953			1
MIPU	'NEVADA 69KV'	20.3	-0.00722		'SOUTH HARPER 161KV'	313.0953		-0.33522	1
MIPU	'RALPH GREEN 69KV'	73.7	0.06077		'SOUTH HARPER 161KV'	313.0953			
	'GARDNER 161KV'	11	-0.01574		'LACYGNE UNIT 345KV'	958			
KACP	'MONTROSE 161KV'	24.32433	-0.01883	KACP	'LACYGNE UNIT 345KV'	958	0.01876	-0.03759	6
	mum Increment were determine from the Souce and Sink (	Operating Points in the	ne study mo	dels where limi	ting facility was identified.				
Factor = Source GSF - Sink GS									
Redispatch Amount = Relief An									

Flowgate: Date Redispatch Needed:	MARTIN CITY - TURNER ROAD SUBSTATION 161KV MARTIN CITY - TURNER ROAD SUBSTATION 161KV / To->From GRD OAK - PLEASANT HILL 345KV CKT 1 59210592591591985920011306SP 6/1/06 - 101/106 2006 Summer Peak								
Reservation	Relief Amount	Aggregate Relief Amount							
1035259		3 4.3							
1035259	4.	Maximum 4.3		Sink Control		Maximum	-		Redispatch
Source Control Area	Source			Area	Sink		GSF		Amount (MW)
MIPU	'ARIES 161KV'	595			SOUTH HARPER 161KV	315		-0.44325	10
MIPU	'GREENWOOD 161KV'	229,7398	-0.04826	MIPU	SOUTH HARPER 161KV	315	0.398	-0.44626	10
MIPU	'NEVADA 69KV'	20.3	-0.01063	MIPU	'SOUTH HARPER 161KV'	315	0.398	-0.40863	11
MIPU	'RALPH GREEN 69KV'	73.7	0.0736	MIPU	'SOUTH HARPER 161KV'	315	0.398	-0.3244	13
KACP	'MONTROSE 161KV'	25.44292	-0.02091	KACP	'LACYGNE UNIT 345KV'	962	0.04182	-0.06273	
KACP	'MARSHALL 161KV'	39.1	-0.01626	KACP	'LACYGNE UNIT 345KV'	962	0.04182	-0.05808	74
KACP	'PAOLA COMBUSTION TURBINES 161KV'	46.99292	0.00167	KACP	'LACYGNE UNIT 345KV'	962	0.04182	-0.04015	108
MIPU	'GREENWOOD 161KV'	229.7398	-0.04826	MIPU	'LAKE ROAD 34KV'	92	-0.01604	-0.03222	134

MIPU [24/EE/W0/OD 161KV] 229.7398 -0.04826[MIPU [24/EE/W0/OD 161KV] 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

Flowgate: Date Redispatch Needed:	MARTIN CITY - TURNER ROAD SUBSTATION 161KV C MARTIN CITY - TURNER ROAD SUBSTATION 161KV C To-From GRD OAK - PLEASANT HILL 345KV CKT 1 59210592501591959250011307SP 6/107 - 10/1/07 2007 Summer Peak								
		Aggregate Relief							
Reservation	Relief Amount	Amount							
1035259	4.3	4.3							
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
MIPU	'ARIES 161KV'	595	-0.04493	MIPU	'SOUTH HARPER 161KV'	313.0953	0.39813	-0.44306	10
MIPU	'GREENWOOD 161KV'	255.8	-0.04793	MIPU	'SOUTH HARPER 161KV'	313.0953	0.39813	-0.44606	10
MIPU	'NEVADA 69KV'	20.3	-0.0105	MIPU	'SOUTH HARPER 161KV'	313.0953	0.39813	-0.40863	11
MIPU	'RALPH GREEN 69KV'	73.7	0.07387	MIPU	'SOUTH HARPER 161KV'	313.0953	0.39813	-0.32426	13
KACP	'MONTROSE 161KV'	24.32433	-0.02065	KACP	'LACYGNE UNIT 345KV'	958	0.04183	-0.06248	
KACP	'MARSHALL 161KV'	39.1	-0.0156	KACP	'LACYGNE UNIT 345KV'	958	0.04183	-0.05743	
KACP	'PAOLA COMBUSTION TURBINES 161KV'	42.3728	0.00172	KACP	'LACYGNE UNIT 345KV'	958	0.04183	-0.04011	107
MIPU	'GREENWOOD 161KV'	255.8	-0.04793	MIPU	'LAKE ROAD 34KV'	92	-0.01569	-0.03224	133
Maximum Decrement and Maxi	imum Increment were determine from the Souce and Sink (	Operating Points in th	e study mo	lels where limi	ting facility was identified	•			•

Redispatch Amount (MW)

nent were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified

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

Upgrade:	MARTIN CITY - TURNER ROAD SUBSTATION 161KV C								
Limiting Facility:	MARTIN CITY - TURNER ROAD SUBSTATION 161KV C	KT 1							
Direction:	To->From								
Line Outage:	GRD OAK - PLEASANT HILL 345KV CKT 1								
Flowgate:	59210592591591985920011308SP								
Date Redispatch Needed:	Starting 2008 6/1 - 10/1 Until EOC								
Season Flowgate Identified:	2008 Summer Peak								
		Aggregate Relief							
Reservation	Relief Amount	Amount							
1035259	4.2	4.2							
		Maximum		Sink Control		Maximum			
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	
MIPU	'ARIES 161KV'	595			'SOUTH HARPER 161KV'	309.8867	0.3984	-0.4431	1
MIPU	'GREENWOOD 161KV'	255.8			'SOUTH HARPER 161KV'	309.8867			
MIPU	'LAKE ROAD 161KV'	91	-0.01632		'SOUTH HARPER 161KV'	309.8867	0.3984		
MIPU	'NEVADA 69KV'	20.3	-0.01016		'SOUTH HARPER 161KV'	309.8867		-0.4085	
MIPU	'SIBLEY 161KV'	19.12985	-0.03344		'SOUTH HARPER 161KV'	309.8867	0.3984		
MIPU	'TWA 161KV'	32.1	-0.02447	MIPU	'SOUTH HARPER 161KV'	309.8867	0.3984	-0.4228	1
MIPU	'RALPH GREEN 69KV'	73.7	0.07409	MIPU	'SOUTH HARPER 161KV'	309.8867		-0.3243	
KACP	'NORTHEAST 13KV'	56	-0.02913	KACP	'LACYGNE UNIT 345KV'	958	0.04106	-0.0701	3
KACP	'NORTHEAST 13KV'	56			'LACYGNE UNIT 345KV'	958			
KACP	'NORTHEAST 13KV'	59	-0.02913	KACP	'LACYGNE UNIT 345KV'	958	0.04106	-0.0701	3
KACP	'NORTHEAST 13KV'	58	-0.02913	KACP	'LACYGNE UNIT 345KV'	958	0.04106	-0.0701	3
KACP	'NORTHEAST 161KV'	55	-0.02913	KACP	'LACYGNE UNIT 345KV'	958		-0.0701	3
KACP	'NORTHEAST 161KV'	58	-0.02913		'LACYGNE UNIT 345KV'	958			
KACP	'NORTHEAST 161KV'	58	-0.02913	KACP	'LACYGNE UNIT 345KV'	958	0.04106	-0.0701	3
KACP	'NORTHEAST 161KV'	58	-0.02913	KACP	'LACYGNE UNIT 345KV'	958	0.04106	-0.0701	3
KACP	'GRAND AVENUE 161KV'	65	-0.02879	KACP	'LACYGNE UNIT 345KV'	958	0.04106	-0.0698	5
KACP	'MONTROSE 161KV'	24.29465	-0.02035	KACP	'LACYGNE UNIT 345KV'	958	0.04106	-0.0614	Ē
KACP	'MARSHALL 161KV'	39.1	-0.01562	KACP	'LACYGNE UNIT 345KV'	958	0.04106	-0.0566	3
MIPU	'GREENWOOD 161KV'	255.8	-0.04779	MIPU	'LAKE ROAD 34KV'	92	-0.01632	-0.0314	7

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

Upgrade:	MEDICINE LODGE - SUN CITY 115KV CKT 1								
Limiting Facility:	MEDICINE LODGE - SUN CITY 115KV CKT 1								
Direction:	To->From								
Line Outage:	MULLERGREN - SPEARVILLE 230KV CKT 1								
Flowgate:	58773587971587795879513107FA								
Date Redispatch Needed:	Starting 2007 10/1 - 12/1 Until EOC of Upgrade								
Season Flowgate Identified:	2007 Fall Peak								
		Aggregate Relief							
Reservation	Relief Amount	Amount							
103525	i9 0.9								
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source		GSF	Area	Sink		GSF	Factor	Amount (MW)
WEPL	'A. M. MULLERGREN GENERATOR 115KV'	63			'GRAY COUNTY WIND FARM 115KV'	100		-0.25915	
WEPL	'A. M. MULLERGREN GENERATOR 115KV'	63			JUDSON LARGE 115KV	58.27701		-0.26074	
WEPL	'BELOIT 115KV'	4.4	-0.01349		'GRAY COUNTY WIND FARM 115KV'	100		-0.24048	
WEPL	'BELOIT 115KV'	4.4			'JUDSON LARGE 115KV'	58.27701		-0.24207	
WEPL	'CLIFTON 115KV'	70			'GRAY COUNTY WIND FARM 115KV'	100		-0.237	
WEPL	'CLIFTON 115KV'	70	-0.01001		'JUDSON LARGE 115KV'	58.27701		-0.23859	
WEPL	'GREENLEAF 115KV'	8.05	-0.00877		'GRAY COUNTY WIND FARM 115KV'	100		-0.23576	
WEPL	'GREENLEAF 115KV'	8.05	-0.00877		'JUDSON LARGE 115KV'	58.27701		-0.23735	
WEPL	'NORTH WEST GREAT BEND 115KV'	9.089996	-0.03216		'GRAY COUNTY WIND FARM 115KV'	100		-0.25915	
WEPL	'NORTH WEST GREAT BEND 115KV'	9.089996	-0.03216		'JUDSON LARGE 115KV'	58.27701		-0.26074	
WEPL	'RUSSELL 115KV'	8.5			'GRAY COUNTY WIND FARM 115KV'	100		-0.25332	
WEPL	'RUSSELL 115KV'	8.5	-0.02633		'JUDSON LARGE 115KV'	58.27701		-0.25491	
WEPL	'SMITH CENTER 115KV'	5.35			'GRAY COUNTY WIND FARM 115KV'	100		-0.24344	
WEPL	'SMITH CENTER 115KV'	5.35			'JUDSON LARGE 115KV'	58.27701		-0.24503	
WEPL	'A. M. MULLERGREN GENERATOR 115KV'	63	-0.03216		'SPEARVILLE WIND 34KV'	101		-0.15301	
WEPL	'NORTH WEST GREAT BEND 115KV'	9.089996	-0.03216		'SPEARVILLE WIND 34KV'	101		-0.15301	
WEPL	'RUSSELL 115KV'	8.5	-0.02633		'SPEARVILLE WIND 34KV'	101		-0.14718	
WEPL	'BELOIT 115KV'	4.4	-0.01349		'SPEARVILLE WIND 34KV'	101		-0.13434	
WEPL	'CLIFTON 115KV'	70			'SPEARVILLE WIND 34KV'	101		-0.13086	
WEPL	'GREENLEAF 115KV'	8.05	-0.00877		'SPEARVILLE WIND 34KV'	101		-0.12962	
MIDW	'PAWNEE 115KV'	999	-0.09265		'COLBY 115KV'	7.287761		-0.13731	
MIDW	'RICE 115KV'	999	-0.09265		'COLBY 115KV'	7.287761		-0.13731	
WEPL	'SMITH CENTER 115KV'	5.35			'SPEARVILLE WIND 34KV'	101		-0.1373	
WEPL	'CIMARRON RIVER 115KV'	72			'GRAY COUNTY WIND FARM 115KV'	100		-0.10645	
WEPL	'CIMARRON RIVER 115KV'	72			'JUDSON LARGE 115KV'	58.27701		-0.10804	
MIDW	'GREAT BEND PLANT 69KV'	10			'COLBY 115KV'	7.287761		-0.08415	
SUNC	'CITY OF HILL CITY 115KV'	6.1	0.0136		'HOLCOMB 115KV'	266.1951		-0.07099	
SUNC	'CITY OF NORTON 115KV'	10.56	0.01849		'HOLCOMB 115KV'	266.1951		-0.0661	1
MIDW	'LYONS 115KV'	999	-0.00249		'COLBY 115KV'	7.287761		-0.04715	
SUNC	CITY OF GOODLAND 115KV	13.9	0.05417	SUNC	'HOLCOMB 115KV'	266,1951	0.08459	-0.03042	3

SUNC [CITY OF GODDLAND TISKY ] 13.9 0.05417[SUNC [HOLCOME TISKY 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

	MEDICINE LODGE - SUN CITY 115KV CKT 1 MEDICINE LODGE - SUN CITY 115KV CKT 1 To->From MULLERGREN - SPEARVILLE 230KV CKT 1								
Flowgate:	58773587971587795879513107SH								
	6/1 - 10/1 Until EOC of Upgrade								
Season Flowgate Identified:	2007 Summer Shoulder								
		Aggregate Relief							
Reservation	Relief Amount	Amount							
1035259	5.1	5.1							
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
WEPL	'NORTH WEST GREAT BEND 115KV'	12.24	-0.0322	WEPL	'SPEARVILLE WIND 34KV'	101	0.12082	-0.15302	33
WEPL	'RUSSELL 115KV'	27.9	-0.02636	WEPL	'SPEARVILLE WIND 34KV'	101	0.12082	-0.14718	34
WEPL	'CLIFTON 115KV'	49.6965	-0.01006	WEPL	'SPEARVILLE WIND 34KV'	101	0.12082	-0.13088	39
WEPL	'CIMARRON RIVER 115KV'	72	0.12054	WEPL	'JUDSON LARGE 115KV'	117.7154	0.22856	-0.10802	47
WEPL	'CIMARRON RIVER 115KV'	72	0.12054	WEPL	'GRAY COUNTY WIND FARM 115KV'	60	0.22696	-0.10642	48
Maximum Decrement and Max	imum Increment were determine from the Souce and Sink	Operating Points in the	ne study mo	dels where limi	ing facility was identified.				·

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

Upgrade:	MEDICINE LODGE - SUN CITY 115KV CKT 1
Limiting Facility:	MEDICINE LODGE - SUN CITY 115KV CKT 1
Direction:	To->From
Line Outage:	MULLERGREN - SPEARVILLE 230KV CKT 1
Flowgate:	58773587971587795879513107SP
Date Redispatch Needed:	6/1/07 - 10/1/07
Season Flowgate Identified:	2007 Summer Peak

Season Flowgate Identified:	2007 Summer Peak		_						
		Aggregate Relief							
Reservation 1035259	Relief Amount 0.1	Amount							
1035259	0.1	0.1 Maximum		Sink Control		Maximum	1	1	Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
WEPL	'BELOIT 115KV'	9.25			'GRAY COUNTY WIND FARM 115KV'	60		-0.24057	
WEPL	'BELOIT 115KV'	9.25	-0.01353	WEPL	'JUDSON LARGE 115KV'	115.8129		-0.24217	í .
WEPL	'BELOIT 115KV'	9.25			'SPEARVILLE WIND 34KV'	101		-0.1344	
WEPL	'CIMARRON RIVER 115KV'	38.75674			'GRAY COUNTY WIND FARM 115KV'	60		-0.10631	
WEPL	'CIMARRON RIVER 115KV'	38.75674			'JUDSON LARGE 115KV'	115.8129		-0.10791	I
SUNC	CITY OF HILL CITY 115KV	3.1			CITY OF HUGOTON 69KV	6.2		-0.09458	H
SUNC SUNC	CITY OF HILL CITY 115KV CITY OF HILL CITY 115KV	3.1			'CITY OF LAKIN 115KV' 'GARDEN CITY 115KV'	2.5 56.43723	0.08683	-0.07325	1
SUNC	CITY OF HILL CITY 115KV	3.1	0.01358		HOLCOMB 115KV	268.0633	0.08273	-0.06915	(
	'CITY OF HILL CITY 115KV'	3.1	0.01358		JOHNSON 69KV	208.0033		-0.077	
SUNC	'CITY OF NORTON 115KV'	10.56	0.01847	SUNC	CITY OF HUGOTON 69KV	6.2		-0.08969	í
	'CITY OF NORTON 115KV'	10.56	0.01847		CITY OF LAKIN 115KV	2.5		-0.06836	i
	'CITY OF NORTON 115KV'	10.56			'HOLCOMB 115KV'	268.0633	0.08461	-0.06614	i
SUNC	'CITY OF NORTON 115KV'	10.56	0.01847	SUNC	JOHNSON 69KV	2.9	0.09058	-0.07211	
MIDW	'GREAT BEND PLANT 69KV'	10			'COLBY 115KV'	4.918111		-0.08416	
WEPL	'GREENLEAF 115KV'	10.15			'CIMARRON RIVER 115KV'	8.243259		-0.12954	L
WEPL	'GREENLEAF 115KV'	10.15			'GRAY COUNTY WIND FARM 115KV'	60		-0.23585	I
WEPL	GREENLEAF 115KV	10.15			JUDSON LARGE 115KV	115.8129		-0.23745	·
WEPL	'GREENLEAF 115KV'	10.15	-0.00881		SPEARVILLE WIND 34KV	101	0.12087	-0.12968	
WEPL WEPL	'NORTH WEST GREAT BEND 115KV' 'NORTH WEST GREAT BEND 115KV'	12.24	-0.03218 -0.03218		'CIMARRON RIVER 115KV' 'GRAY COUNTY WIND FARM 115KV'	8.243259	0.12073 0.22704	-0.15291 -0.25922	
	NORTH WEST GREAT BEND 115KV	12.24			JUDSON LARGE 115KV	115.8129		-0.25922	
	NORTH WEST GREAT BEND 115KV	12.24			SPEARVILLE WIND 34KV	101	0.22804	-0.15305	
SUNC	'OBERLIN 115KV'	4.31			CITY OF HUGOTON 69KV	6.2		-0.08315	í
SUNC	'OBERLIN 115KV'	4.31		SUNC	JOHNSON 69KV	2.9		-0.06557	í
MIDW	'PAWNEE 115KV'	999		MIDW	'COLBY 115KV'	4.918111		-0.1373	i
WEPL	'PLAINVILLE 115KV'	5.25		WEPL	'CIMARRON RIVER 115KV'	8.243259	0.12073	-0.13644	í l
WEPL	'PLAINVILLE 115KV'	5.25	-0.01571	WEPL	'GRAY COUNTY WIND FARM 115KV'	60		-0.24275	
WEPL	'PLAINVILLE 115KV'	5.25			'JUDSON LARGE 115KV'	115.8129		-0.24435	1
WEPL	'PLAINVILLE 115KV'	5.25		WEPL	'SPEARVILLE WIND 34KV'	101		-0.13658	I
MIDW	'RICE 115KV'	999		MIDW	'COLBY 115KV'	4.918111		-0.1373	I
WEPL	'RUSSELL 115KV'	27.9		WEPL	CIMARRON RIVER 115KV	8.243259		-0.14708	1
WEPL WEPL	'RUSSELL 115KV'	27.9 27.9	-0.02635 -0.02635		'GRAY COUNTY WIND FARM 115KV'	60	0.22704	-0.25339	1
WEPL	'RUSSELL 115KV' 'RUSSELL 115KV'	27.9			'JUDSON LARGE 115KV' 'SPEARVILLE WIND 34KV'	115.8129 101	0.22864 0.12087	-0.25499 -0.14722	1
WEPL	'SMITH CENTER 115KV'	5.35			CIMARRON RIVER 115KV	8.243259	0.12007	-0.13721	
WEPL	'SMITH CENTER 115KV'	5.35			'GRAY COUNTY WIND FARM 115KV'	60	0.22704	-0.24352	(
WEPL	'SMITH CENTER 115KV'	5.35			JUDSON LARGE 115KV	115.8129		-0.24512	í
WEPL	'SMITH CENTER 115KV'	5.35	-0.01648	WEPL	'SPEARVILLE WIND 34KV'	101	0.12087	-0.13735	i
WERE	'ST JOHN 115KV'	2.9	-0.09266	WERE	'ABILENE ENERGY CENTER 115KV'	40	-0.01484	-0.07782	í l
WERE	'ST JOHN 115KV'	2.9			'BPU - CITY OF MCPHERSON 115KV'	155.7451	-0.02267	-0.06999	ī
WERE	'ST JOHN 115KV'	2.9			'CITY OF AUGUSTA 69KV'	26.1	-0.01379	-0.07887	L
WERE	'ST JOHN 115KV'	2.9			'CITY OF WELLINGTON 69KV'	39.5	-0.01603	-0.07663	I
	ST JOHN 115KV	2.9			CITY OF WINFIELD 69KV	40		-0.08082	H
	'ST JOHN 115KV'	2.9			'EVANS ENERGY CENTER 138KV'	565		-0.07689	1
	'ST JOHN 115KV' 'ST JOHN 115KV'	2.9			'GILL ENERGY CENTER 138KV' 'GILL ENERGY CENTER 69KV'	171		-0.06756	
	ST JOHN 115KV	2.9			HOLTON 115KV	/5		-0.07032	1
	ST JOHN 115KV	2.9			HUTCHINSON ENERGY CENTER 115KV	210		-0.06435	
	ST JOHN 115KV	2.9			JEFFREY ENERGY CENTER 230KV	486		-0.08315	
	'ST JOHN 115KV'	2.9		WERE	JEFFREY ENERGY CENTER 345KV	924		-0.08324	
	'ST JOHN 115KV'	2.9			'SOUTH SENECA 115KV'	13.9		-0.08827	
	'ST JOHN 115KV'	2.9		WERE	'TECUMSEH ENERGY CENTER 115KV'	158		-0.08424	
	'ST JOHN 115KV'	2.9			WACO 138KV	17.96		-0.06851	
	CITY OF HILL CITY 115KV	3.1		SUNC	'CITY OF GOODLAND 115KV'	6.8		-0.04058	
	CITY OF NORTON 115KV	10.56		SUNC	'GARDEN CITY 115KV'	56.43723	0.08273	-0.06426	
	CITY OF ST.FRANCIS 115KV	4.3		SUNC	JOHNSON 69KV	2.9	0.09058	-0.04003	
	LYONS 115KV	999		MIDW	COLBY 115KV	4.918111		-0.04715	:
SUNC SUNC	'OBERLIN 115KV' 'OBERLIN 115KV'	4.31 4.31	0.02501 0.02501	SUNC SUNC	'CITY OF LAKIN 115KV' 'GARDEN CITY 115KV'	2.5 56.43723	0.08683 0.08273	-0.06182 -0.05772	
	OBERLIN 115KV	4.31		SUNC	HOLCOMB 115KV	268.0633		-0.05772	·
WERE	'ST JOHN 115KV'	4.31		WERE	HUTCHINSON ENERGY CENTER 69KV	208.0033		-0.06428	
SUNC	'CITY OF GOODLAND 115KV'	7.1		SUNC	CITY OF LAKIN 115KV	2.5		-0.03267	
SUNC	'CITY OF GOODLAND 115KV'	7.1		SUNC	'HOLCOMB 115KV'	268.0633	0.08461	-0.03045	
SUNC	'CITY OF GOODLAND 115KV'	7.1		SUNC	JOHNSON 69KV'	2.9		-0.03642	
SUNC	'CITY OF NORTON 115KV'	10.56	0.01847	SUNC	'CITY OF GOODLAND 115KV'	6.8	0.05416	-0.03569	
							0.00000	-0.03628	
SUNC	'CITY OF ST.FRANCIS 115KV'	4.3		SUNC	'CITY OF LAKIN 115KV'	2.5	0.08683		
SUNC SUNC	'CITY OF ST.FRANCIS 115KV' 'CITY OF ST.FRANCIS 115KV' 'CITY OF ST.FRANCIS 115KV'	4.3 4.3 4.3	0.05055	SUNC	'CITY OF LAKIN 115KV' 'GARDEN CITY 115KV' 'HOLCOMB 115KV'	2.5 56.43723 268.0633	0.08273	-0.03628 -0.03218 -0.03406	

 SUNC
 CITY OF ST.FRANCIS 115KV
 4.3
 Cubotes [SUNC
 GARDEN CITY 115KV

 SUNC
 CITY OF ST.FRANCIS 115KV
 4.3
 0.05055 [SUNC
 HOLCOMB 115KV

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

Upgrade:	MOCKINGBIRD HILL SWITCHING STATION - ST	ULL SWITCHING STATION 115KV CKT 1
Limiting Facility:	MOCKINGBIRD HILL SWITCHING STATION - ST	
Direction:	To->From	
Line Outage:	HOYT - STRANGER CREEK 345KV CKT 1	
Flowgate:	57253572701567655677211107FA	
Date Redispatch Needed:	Starting 2007 10/1 - 12/1 Until EOC of Upgrade	
Season Flowgate Identified:	2007 Fall Peak	
		Aggregate Relief
Reservation	Relief Amount	Amount

1035259	4.0	4.0							
		Maximum		Sink Control		Maximum			Redispatch
urce Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (M)
RE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.15465		'TECUMSEH ENERGY CENTER 115KV'	108			
RE	'LAWRENCE ENERGY CENTER 230KV'	44.22256			'TECUMSEH ENERGY CENTER 115KV'	108			
RE	'LAWRENCE ENERGY CENTER 115KV'	178			'ABILENE ENERGY CENTER 115KV'	40			
RE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.15465		'JEFFREY ENERGY CENTER 230KV'	486			
RE	'LAWRENCE ENERGY CENTER 115KV'	178			'JEFFREY ENERGY CENTER 345KV'	924		-0.22542	
RE	'LAWRENCE ENERGY CENTER 115KV'	178			'HUTCHINSON ENERGY CENTER 115KV'	57.01367			
RE	'LAWRENCE ENERGY CENTER 115KV'	178			'SMOKEY HILLS 34KV'	50			
RE	LAWRENCE ENERGY CENTER 115KV	178			'EVANS ENERGY CENTER 138KV'	305			
RE RE	'LAWRENCE ENERGY CENTER 115KV' 'LAWRENCE ENERGY CENTER 115KV'	178			'GILL ENERGY CENTER 138KV' 'WACO 138KV'	155			
	CITY OF GIRARD 69KV	8.909			TECUMSEH ENERGY CENTER 115KV	17.946			
RE RE	CITY OF GIRARD 69KV	13.372		WERE	TECUMSEH ENERGY CENTER 115KV	108			
RE	'LAWRENCE ENERGY CENTER 115KV'	13.372			CITY OF WELLINGTON 69KV	39.5			
RE	'NEOSHO ENERGY CENTER 138KV'	67		WERE	TECUMSEH ENERGY CENTER 115KV	108			
RE	CITY OF FREDONIA 69KV	10.294		WERE	TECOMSET ENERGY CENTER 115KV	108			
RE	'LAWRENCE ENERGY CENTER 115KV'	178			CHANUTE 69KV	56.296			
RE	'LAWRENCE ENERGY CENTER 115KV'	178			CITY OF BURLINGTON 69KV	10.5			
RE	'LAWRENCE ENERGY CENTER 115KV'	178			'CITY OF IOLA 69KV'	24.256			
RE	'LAWRENCE ENERGY CENTER 115KV'	178			COFFEY COUNTY NO. 2 SHARPE 69KV	19.96			
RE	'LAWRENCE ENERGY CENTER 230KV'	44.22256	-0.08731		JEFFREY ENERGY CENTER 230KV	486			
RE	'LAWRENCE ENERGY CENTER 230KV'	44.22256	-0.08731		JEFFREY ENERGY CENTER 345KV	924		-0.15808	
RE	CITY OF MULVANE 69KV	10.899	0.01258		TECUMSEH ENERGY CENTER 115KV	108			
RE	'CITY OF WINFIELD 69KV'	33.672		WERE	TECUMSEH ENERGY CENTER 115KV	108			
RE	'EVANS ENERGY CENTER 138KV'	348		WERE	TECUMSEH ENERGY CENTER 115KV	108			
RE	'GETTY 69KV'	35		WERE	'TECUMSEH ENERGY CENTER 115KV'	108			
RE	'GILL ENERGY CENTER 138KV'	17.99999			'TECUMSEH ENERGY CENTER 115KV'	108			
RE	'GILL ENERGY CENTER 69KV'	118		WERE	'TECUMSEH ENERGY CENTER 115KV'	108			
RE	'LAWRENCE ENERGY CENTER 230KV'	44.22256	-0.08731	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06094	-0.14825	,
RE	'LAWRENCE ENERGY CENTER 230KV'	44.22256	-0.08731	WERE	'SMOKEY HILLS 34KV'	50	0.05191	-0.13922	-
RE	'LAWRENCE ENERGY CENTER 230KV'	44.22256			'HUTCHINSON ENERGY CENTER 115KV'	57.01367	0.04944	-0.13675	,
RE	'SOUTH SENECA 115KV'	15		WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.1649	-0.12266	
RE	'HUTCHINSON ENERGY CENTER 115KV'	325.9863	0.04944	WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.1649	-0.11546	1
RE	'HUTCHINSON ENERGY CENTER 69KV'	67	0.04943	WERE	'TECUMSEH ENERGY CENTER 115KV'	108			
RE	'BPU - CITY OF MCPHERSON 115KV'	259		WERE	'TECUMSEH ENERGY CENTER 115KV'	108			
RE	'CLAY CENTER JUNCTION 115KV'	28.7		WERE	'TECUMSEH ENERGY CENTER 115KV'	108			
RE	'LAWRENCE ENERGY CENTER 230KV'	44.22256	-0.08731		'EVANS ENERGY CENTER 138KV'	305			
RE	'LAWRENCE ENERGY CENTER 230KV'	44.22256			'GILL ENERGY CENTER 138KV'	155			
RE	'LAWRENCE ENERGY CENTER 230KV'	44.22256			'WACO 138KV'	17.946			
RE	'LAWRENCE ENERGY CENTER 230KV'	44.22256			'CITY OF WELLINGTON 69KV'	39.5			
RE	'JEFFREY ENERGY CENTER 345KV'	58			'TECUMSEH ENERGY CENTER 115KV'	108			
RE	'LAWRENCE ENERGY CENTER 230KV'	44.22256	-0.08731		'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.96			
RE	'LAWRENCE ENERGY CENTER 230KV'	44.22256			'CITY OF IOLA 69KV'	24.256			
RE	'HOLTON 115KV'	19.8		WERE	'TECUMSEH ENERGY CENTER 115KV'	108			
RE	'NEOSHO ENERGY CENTER 138KV'	67		WERE	JEFFREY ENERGY CENTER 345KV	924			
RE	'LAWRENCE ENERGY CENTER 115KV'	178			'LAWRENCE ENERGY CENTER 230KV'	224.7774			
RE	'NEOSHO ENERGY CENTER 138KV'	67		WERE	JEFFREY ENERGY CENTER 230KV	486			
RE	'CITY OF WINFIELD 69KV'	33.672		WERE	'JEFFREY ENERGY CENTER 345KV'	924		-0.05997	
RE	CITY OF WINFIELD 69KV	33.672		WERE	JEFFREY ENERGY CENTER 230KV	486			
RE	GETTY 69KV	35		WERE	JEFFREY ENERGY CENTER 345KV	924			
RE	'NEOSHO ENERGY CENTER 138KV' 'GETTY 69KV'	67		WERE	'ABILENE ENERGY CENTER 115KV' 'JEFFREY ENERGY CENTER 230KV'	40			
RE RE	'GELLENERGY CENTER 69KV'	35		WERE		486		-0.05763 -0.05738	
RE	'EVANS ENERGY CENTER 138KV'	348		WERE	'JEFFREY ENERGY CENTER 345KV' 'JEFFREY ENERGY CENTER 345KV'	924		-0.05738	
RE	GILL ENERGY CENTER 138KV	348		WERE	JEFFREY ENERGY CENTER 345KV JEFFREY ENERGY CENTER 230KV	924			
RE	'EVANS ENERGY CENTER 138KV'	348		WERE	JEFFREY ENERGY CENTER 230KV	486			
RE	CITY OF WINFIELD 69KV	33.672		WERE	ABILENE ENERGY CENTER 115KV	400			
RE	'GETTY 69KV'	35.072		WERE	ABILENE ENERGY CENTER 115KV	40			
RE	'NEOSHO ENERGY CENTER 138KV'	67		WERE	SMOKEY HILLS 34KV				
RE	'GILL ENERGY CENTER 69KV'	118			ABILENE ENERGY CENTER 115KV	40			
RE	'EVANS ENERGY CENTER 138KV'	348			ABILENE ENERGY CENTER 115KV	40			
RE	'NEOSHO ENERGY CENTER 138KV'	67		WERE	HUTCHINSON ENERGY CENTER 115KV	57.01367			1
RE	CITY OF WINFIELD 69KV	33.672		WERE	'SMOKEY HILLS 34KV'	50			1
RE	'GETTY 69KV'	35.072			'SMOKEY HILLS 34KV'	50			
RE	'GILL ENERGY CENTER 69KV'	118			'SMOKEY HILLS 34KV'	50			
RE	'EVANS ENERGY CENTER 138KV'	348			'SMOKEY HILLS 34KV'	50			
RE	'GILL ENERGY CENTER 69KV'	118		WERE	HUTCHINSON ENERGY CENTER 115KV	57.01367			1
RE	'EVANS ENERGY CENTER 138KV'	348	0.01425	WERE	HUTCHINSON ENERGY CENTER 115KV	57.01367		-0.03519	1

Direction: ine Outage:	To->From HOYT - STRANGER CREEK 345KV CKT 1								
lowgate:	57253572701567655677211107WP								
ate Redispatch Needed:	12/1/07 - 4/1/08								
Season Flowgate Identified:	2007 Winter Peak								
season riowgate identified.	2007 WIItel Feak	Aggregate Relief	1						
Reservation	Relief Amount	Aggregate Relief							
103525		3.9 3.9							
100020		Maximum		Sink Control		Maximum			Redispatch
ource Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
VERE	CHANUTE 69KV	45.782	0.00285		TECUMSEH ENERGY CENTER 115KV	128	0.16484	-0.16199	
/ERE	CITY OF ERIE 69KV	26.53	0.00285		'TECUMSEH ENERGY CENTER 115KV'	128	0.16484	-0.16199	
/ERE	'CITY OF GIRARD 69KV'	9.21	0.00168		'TECUMSEH ENERGY CENTER 115KV'	128	0.16484	-0.16316	
/ERE	'CITY OF IOLA 69KV'	23.063	0.00191	WERE	'TECUMSEH ENERGY CENTER 115KV'	128	0.16484	-0.16293	
/ERE	'NEOSHO ENERGY CENTER 138KV'	47	0.00282	WERE	'TECUMSEH ENERGY CENTER 115KV'	128	0.16484	-0.16202	
/ERE	'CITY OF FREDONIA 69KV'	10.294	0.00402	WERE	'TECUMSEH ENERGY CENTER 115KV'	128	0.16484	-0.16082	
/ERE	'SOUTH SENECA 115KV'	15			'TECUMSEH ENERGY CENTER 115KV'	128	0.16484	-0.12266	
ERE	'CITY OF IOLA 69KV'	23.063	0.00191		'JEFFREY ENERGY CENTER 345KV'	924	0.07071	-0.0688	
ERE	'CITY OF ERIE 69KV'	26.53	0.00285		'JEFFREY ENERGY CENTER 345KV'	924	0.07071	-0.06786	
ERE	'CITY OF IOLA 69KV'	23.063			'JEFFREY ENERGY CENTER 230KV'	486	0.06994	-0.06803	
ERE	'NEOSHO ENERGY CENTER 138KV'	47	0.00282	WERE	'JEFFREY ENERGY CENTER 345KV'	924	0.07071	-0.06789	
ERE	'CITY OF ERIE 69KV'	26.53			'JEFFREY ENERGY CENTER 230KV'	486	0.06994	-0.06709	
ERE	'NEOSHO ENERGY CENTER 138KV'	47	0.00282	WERE	'JEFFREY ENERGY CENTER 230KV'	486	0.06994	-0.06712	
ERE	'CITY OF WINFIELD 69KV'	34.68	0.01073	WERE	'JEFFREY ENERGY CENTER 345KV'	924	0.07071	-0.05998	
ERE	'CITY OF IOLA 69KV'	23.063	0.00191	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06088	-0.05897	
ERE	'CITY OF WINFIELD 69KV'	34.68	0.01073	WERE	'JEFFREY ENERGY CENTER 230KV'	486	0.06994	-0.05921	
ERE	'CITY OF ERIE 69KV'	26.53	0.00285	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06088	-0.05803	
ERE	'GETTY 69KV'	35	0.01231	WERE	'JEFFREY ENERGY CENTER 230KV'	486	0.06994	-0.05763	
ERE	'GETTY 69KV'	35	0.01231	WERE	'JEFFREY ENERGY CENTER 345KV'	924	0.07071	-0.0584	
ERE	'NEOSHO ENERGY CENTER 138KV'	47	0.00282	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06088	-0.05806	
ERE	'GILL ENERGY CENTER 69KV'	73	0.01332	WERE	'JEFFREY ENERGY CENTER 345KV'	924	0.07071	-0.05739	
ERE	'EVANS ENERGY CENTER 138KV'	66.94189	0.01418	WERE	'JEFFREY ENERGY CENTER 345KV'	924	0.07071	-0.05653	
/ERE	'GILL ENERGY CENTER 69KV'	73	0.01332	WERE	'JEFFREY ENERGY CENTER 230KV'	486	0.06994	-0.05662	
/ERE	'EVANS ENERGY CENTER 138KV'	66.94189	0.01418	WERE	'JEFFREY ENERGY CENTER 230KV'	486	0.06994	-0.05576	
/ERE	'CITY OF WINFIELD 69KV'	34.68	0.01073	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06088	-0.05015	
ERE	'NEOSHO ENERGY CENTER 138KV'	47	0.00282	WERE	'BPU - CITY OF MCPHERSON 115KV'	135	0.05225	-0.04943	
ERE	'NEOSHO ENERGY CENTER 138KV'	47	0.00282	WERE	'SMOKEY HILLS 34KV'	50	0.05184	-0.04902	
ERE	'GETTY 69KV'	35			'ABILENE ENERGY CENTER 115KV'	40	0.06088	-0.04857	
ERE	'GILL ENERGY CENTER 69KV'	73			'ABILENE ENERGY CENTER 115KV'	40	0.06088	-0.04756	
ERE	'EVANS ENERGY CENTER 138KV'	66.94189			'ABILENE ENERGY CENTER 115KV'	40	0.06088	-0.0467	
ERE	'NEOSHO ENERGY CENTER 138KV'	47			'HUTCHINSON ENERGY CENTER 115KV'	120	0.04938	-0.04656	
ERE	'CITY OF WINFIELD 69KV'	34.68			'BPU - CITY OF MCPHERSON 115KV'	135	0.05225	-0.04152	
ERE	'CITY OF WINFIELD 69KV'	34.68			'SMOKEY HILLS 34KV'	50	0.05184	-0.04111	
ERE	'GETTY 69KV'	35			'BPU - CITY OF MCPHERSON 115KV'	135	0.05225	-0.03994	
ERE	'GETTY 69KV'	35			'SMOKEY HILLS 34KV'	50	0.05184	-0.03953	
ERE	'GILL ENERGY CENTER 69KV'	73			'BPU - CITY OF MCPHERSON 115KV'	135	0.05225	-0.03893	
ERE	'CITY OF WINFIELD 69KV'	34.68			'HUTCHINSON ENERGY CENTER 115KV'	120	0.04938	-0.03865	
ERE	'GILL ENERGY CENTER 69KV'	73			'SMOKEY HILLS 34KV'	50	0.05184	-0.03852	
ERE	'EVANS ENERGY CENTER 138KV'	66.94189			'BPU - CITY OF MCPHERSON 115KV'	135	0.05225	-0.03807	
ERE	'EVANS ENERGY CENTER 138KV'	66.94189			'SMOKEY HILLS 34KV'	50	0.05184	-0.03766	
ERE	'GILL ENERGY CENTER 69KV'	73			'HUTCHINSON ENERGY CENTER 115KV'	120	0.04938	-0.03606	
ERE	'EVANS ENERGY CENTER 138KV' aximum Increment were determine from the Souce and Sir	66.94189			'HUTCHINSON ENERGY CENTER 115KV'	120	0.04938	-0.0352	

Upgrade:	PENNSYLVANIA - WESTMOORE 138KV CKT 1
Limiting Facility:	PENNSYLVANIA - WESTMOORE 138KV CKT 1
Direction:	To->From
Line Outage:	CIMARRON - CZECH HALL 138KV CKT 1
Flowgate:	54925548871548985489412307FA
Date Redispatch Needed:	Starting 2007 10/1 - 12/1 Until EOC of Upgrade
Season Flowgate Identified:	2007 Fall Peak
Reservation	Relief Amount

Season Flowgate Identified: 2	2007 Fall Peak		,						
Reservation	Relief Amount	Aggregate Relief Amount							
1032973	4.5	4.5						1	
ource Control Area	Source	Maximum Increment(MW)	GSF	Sink Control Area	Sink	Maximum Decrement(MW)	GSF	Factor	Redispatch Amount (MW)
	'SMITH COGEN 138KV'	110			'MCCLAIN 138KV'	478		-0.53475	
KGE '	'MUSTANG 138KV'	365.5	-0.16736	OKGE	'MCCLAIN 138KV'	478	0.32194	-0.4893	5
	'MUSTANG 69KV'	106	-0.15652	OKGE	'MCCLAIN 138KV'	478		-0.47846	
	'HORSESHOE LAKE 138KV'	91	-0.05493		'MCCLAIN 138KV'	478		-0.37687	
	'HORSESHOE LAKE 138KV' 'HORSESHOE LAKE 138KV'	380 380.5	-0.05493		MCCLAIN 138KV' MCCLAIN 138KV'	478		-0.37687	
OKGE '	HORSESHOE LAKE 69KV	16	-0.05468		'MCCLAIN 138KV'	478			
OKGE	ONE OAK 345KV	236		OKGE	'MCCLAIN 138KV'	478	0.32194	-0.33394	
	'REDBUD 345KV'	900	-0.01473		'MCCLAIN 138KV'	478	0.32194	-0.33667	•
	'REDBUD 345KV'	421.65	-0.01473		'MCCLAIN 138KV'	478			
	TINKER 5G 138KV	62			MCCLAIN 138KV' MCCLAIN 138KV'	478			
	'CONTINENTAL EMPIRE 138KV' 'MUSKOGEE 161KV'	64 166			MCCLAIN 138KV	478		-0.32909	
	MUSKOGEE 161KV	31			'MCCLAIN 138KV'	478		-0.32435	
	'MUSKOGEE 345KV'	20	-0.00226		'MCCLAIN 138KV'	478		-0.3242	
OKGE	'SEMINOLE 138KV'	47.72726	0.00867		'MCCLAIN 138KV'	478		-0.31327	
	SEMINOLE 345KV	406.08	0.00924	OKGE	'MCCLAIN 138KV'	478		-0.3127	
	'SOONER 138KV' 'SOUTH 4TH ST 69KV'	24.99997 42.7	-0.00824	OKGE	'MCCLAIN 138KV' 'MCCLAIN 138KV'	478		-0.33018	
	WOODWARD 24KV	42.7		OKGE	MCCLAIN 138KV MCCLAIN 138KV	4/8			
	SMITH COGEN 138KV	110			'SEMINOLE 138KV'	457.2728		-0.22148	
OKGE 5	'SMITH COGEN 138KV'	110	-0.21281	OKGE	'SEMINOLE 345KV'	590.52	0.00924	-0.22205	i
	'SMITH COGEN 138KV'	110	-0.21281		'AES 161KV'	320	-0.00021	-0.2126	
	SMITH COGEN 138KV	110			'FPLWND2 34KV'	43.0032	0.0052	-0.21801	
	'SMITH COGEN 138KV' 'SMITH COGEN 138KV'	110	-0.21281 -0.21281		'MUSKOGEE 345KV' 'ONE OAK 345KV'	1516	-0.00226	-0.21055	
	SMITH COGEN 138KV	110			SOONER 138KV	505		-0.20081	
	SMITH COGEN 138KV	110			'SOONER 345KV'	513		-0.20546	
OKGE '	'MUSTANG 138KV'	365.5	-0.16736		'SEMINOLE 345KV'	590.52	0.00924	-0.1766	
	'MUSTANG 138KV'	365.5	-0.16736	OKGE	'FPLWND2 34KV'	43.0032	0.0052	-0.17256	
	'MUSTANG 138KV'	365.5	-0.16736		SEMINOLE 138KV	457.2728		-0.17603	
	'MUSTANG 138KV' 'MUSTANG 138KV'	365.5 365.5	-0.16736		'AES 161KV' 'MUSKOGEE 345KV'	320 1516		-0.16715	
	MUSTANG 69KV	106	-0.15652		SEMINOLE 138KV	457.2728		-0.16519	)
	'MUSTANG 69KV'	106	-0.15652		'SEMINOLE 345KV'	590.52			
	'MUSTANG 138KV'	365.5	-0.16736		'SOONER 138KV'	505		-0.15912	
	MUSTANG 138KV	365.5	-0.16736		'SOONER 345KV'	513			
	'MUSTANG 69KV' 'MUSTANG 138KV'	106 365.5	-0.15652		'FPLWND2 34KV' 'ONE OAK 345KV'	43.0032	0.0052	-0.16172	
	MUSTANG 156KV MUSTANG 69KV	106	-0.15652		AES 161KV	320		-0.15530	
OKGE '	'MUSTANG 69KV'	106	-0.15652		'MUSKOGEE 345KV'	1516		-0.15426	5
OKGE '	'MUSTANG 69KV'	106			'SOONER 138KV'	505		-0.14828	3
	'MUSTANG 69KV'	106			'SOONER 345KV'	513		-0.14917	
	'MUSTANG 69KV' 'HORSESHOE LAKE 138KV'	106	-0.15652		'ONE OAK 345KV' 'SEMINOLE 345KV'	100 590.52	-0.012 0.00924	-0.14452	
	HORSESHOE LAKE 138KV	380.5	-0.05493		SEMINOLE 345KV	590.52	0.00924	-0.06417	
	HORSESHOE LAKE 138KV	91	-0.05493		SEMINOLE 345KV	590.52		-0.06417	
OKGE '	'HORSESHOE LAKE 138KV'	91	-0.05493	OKGE	'SEMINOLE 138KV'	457.2728	0.00867	-0.0636	i .
OKGE '	'HORSESHOE LAKE 138KV'	380.5	-0.05493	OKGE	'SEMINOLE 138KV'	457.2728	0.00867	-0.0636	ò
	'HORSESHOE LAKE 138KV'	380	-0.05493		SEMINOLE 138KV	457.2728		-0.0636	
	'HORSESHOE LAKE 138KV' 'HORSESHOE LAKE 138KV'	380	-0.05493		'FPLWND2 34KV' 'FPLWND2 34KV'	43.0032	0.0052	-0.06013	
	HORSESHOE LAKE 138KV	360.5	-0.05493		'FPLWND2 34KV'	43.0032	0.0052	-0.06013	
	'HORSESHOE LAKE 138KV'	380	-0.05493		'AES 161KV'	320		-0.05472	
OKGE '	'HORSESHOE LAKE 138KV'	380.5	-0.05493	OKGE	'AES 161KV'	320	-0.00021	-0.05472	2
OKGE '	'HORSESHOE LAKE 138KV'	91	-0.05493	OKGE	'AES 161KV'	320	-0.00021	-0.05472	2
	HORSESHOE LAKE 138KV	91			'MUSKOGEE 345KV'	1516		-0.05267	
	'HORSESHOE LAKE 138KV' 'HORSESHOE LAKE 138KV'	380 380.5	-0.05493		MUSKOGEE 345KV' MUSKOGEE 345KV'	1516 1516		-0.05267	
	HORSESHOE LAKE 138KV	380.5	-0.05493		SOONER 345KV	513		-0.05267	
	'HORSESHOE LAKE 138KV'	91	-0.05493		'SOONER 345KV'	513		-0.04758	
DKGE '	'HORSESHOE LAKE 138KV'	380	-0.05493	OKGE	'SOONER 345KV'	513	-0.00735	-0.04758	3
	'HORSESHOE LAKE 138KV'	91	-0.05493		'SOONER 138KV'	505			
	'HORSESHOE LAKE 138KV'	380.5	-0.05493		SOONER 138KV	505		-0.04669	
	HORSESHOE LAKE 138KV	380			SOONER 138KV	505			
DKGE '	'HORSESHOE LAKE 138KV' 'HORSESHOE LAKE 138KV'	91 380.5	-0.05493		'ONE OAK 345KV' 'ONE OAK 345KV'	100	-0.012	-0.04293	
KGE '	HORSESHOE LAKE 138KV	380	-0.05493		ONE OAK 345KV	100	-0.012	-0.04293	
KGE	TINKER 5G 138KV	62	-0.03232		'SEMINOLE 345KV'	590.52	0.00924	-0.04156	6 1
WOF.	TINKER 5G 138KV	62	-0.03232		'SEMINOLE 138KV'	457.2728		-0.04099	1
)KGE	TINKER 5G 138KV' TINKER 5G 138KV'	62 62	-0.03232		'FPLWND2 34KV' 'AES 161KV'	43.0032	0.0052	-0.03752	

 IOKGE
 [TINKER 5G 138KV]
 62
 -0.03232[OKGE
 [MUSKOGEE 345KV]

 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

977481		0
Reservation	Relief Amount	
Season Flowgate Identified:	2007 Fall Peak	
Date Redispatch Needed:	Starting 2007 10/1 - 12/1 Until EOC of Upgrade	
Flowgate:	54925548871549535495412307FA	
Line Outage:	HOLLYWOOD - INDIAN HILLS 138KV CKT 1	
Direction:	To->From	
Limiting Facility:	PENNSYLVANIA - WESTMOORE 138KV CKT 1	
Upgrade:	PENNSYLVANIA - WESTMOORE 138KV CKT 1	

teservation	Relief Amount	Aggregate Relief Amount							
977481	0.8			Sink Control		Maximum	[		Redispatch
ource Control Area	Source 'SMITH COGEN 138KV'	Increment(MW) 110	GSF -0.19229	Area	Sink 'MCCLAIN 138KV'	Decrement(MW) 478	GSF 0.35499	Factor	Amount (MW
GE	CONTINENTAL EMPIRE 138KV	64			MCCLAIN 138KV	478		-0.54728	
GE	'HORSESHOE LAKE 138KV'	380	-0.0583	OKGE	'MCCLAIN 138KV'	478	0.35499	-0.41329	
(GE (GE	'HORSESHOE LAKE 138KV' 'HORSESHOE LAKE 138KV'	91 380.5	-0.0583		MCCLAIN 138KV' MCCLAIN 138KV'	478		-0.41329 -0.41329	
KGE	'HORSESHOE LAKE 69KV'	16	-0.056	OKGE	'MCCLAIN 138KV'	478	0.35499	-0.41099	
KGE	'MUSKOGEE 161KV'	31	-0.00161		'MCCLAIN 138KV'	478		-0.3566	
KGE KGE	'MUSKOGEE 161KV' 'MUSKOGEE 345KV'	166 20	-0.00161		MCCLAIN 138KV' MCCLAIN 138KV'	478		-0.3566	
KGE	'MUSTANG 138KV'	365.5	-0.13538	OKGE	'MCCLAIN 138KV'	478	0.35499	-0.49037	
KGE	'MUSTANG 69KV'	106	-0.13972		'MCCLAIN 138KV'	478		-0.49471	
KGE KGE	'ONE OAK 345KV' 'REDBUD 345KV'	236 900	-0.01875 -0.01762		MCCLAIN 138KV' MCCLAIN 138KV'	478		-0.37374 -0.37261	
GE	'REDBUD 345KV'	421.65	-0.01762		'MCCLAIN 138KV'	478		-0.37261	
KGE	'SEMINOLE 138KV'	47.72726	0.01443		'MCCLAIN 138KV'	478		-0.34056	
KGE KGE	'SEMINOLE 345KV' 'SOONER 138KV'	406.08 24.99997	0.01418		MCCLAIN 138KV' MCCLAIN 138KV'	478		-0.34081 -0.36887	
KGE	'SOUTH 4TH ST 69KV'	42.7			'MCCLAIN 138KV'	478		-0.3681	
KGE	'TINKER 5G 138KV'	62			'MCCLAIN 138KV'	478		-0.38496	
KGE KGE	'WOODWARD 24KV' 'SMITH COGEN 138KV'	9.3	-0.00591		'MCCLAIN 138KV' 'AES 161KV'	478		-0.3609	
KGE	'SMITH COGEN 138KV'	110	-0.19229	OKGE	'FPLWND2 34KV'	43.0032	-0.00582	-0.18647	
KGE	'SMITH COGEN 138KV'	110	-0.19229	OKGE	'MUSKOGEE 345KV'	1516	-0.00178	-0.19051	
KGE KGE	'SMITH COGEN 138KV' 'SMITH COGEN 138KV'	110	-0.19229		'SEMINOLE 138KV' 'SEMINOLE 345KV'	457.2728		-0.20672	
KGE	'MUSTANG 138KV'	365.5	-0.13538	OKGE	'SEMINOLE 138KV'	457.2728	0.01443	-0.14981	
KGE	'MUSTANG 138KV'	365.5	-0.13538	OKGE	'SEMINOLE 345KV'	590.52	0.01418	-0.14956	
KGE KGE	'MUSTANG 69KV' 'MUSTANG 69KV'	106	-0.13972 -0.13972	OKGE	'SEMINOLE 138KV' 'SEMINOLE 345KV'	457.2728		-0.15415 -0.1539	
KGE	'SMITH COGEN 138KV'	110	-0.19229	OKGE	'ONE OAK 345KV'	100	-0.01875	-0.17354	
KGE	'SMITH COGEN 138KV'	110	-0.19229	OKGE	SOONER 138KV	505		-0.17841	
KGE KGE	'SMITH COGEN 138KV' 'MUSTANG 138KV'	110 365.5	-0.19229 -0.13538		'SOONER 345KV' 'AES 161KV'	513		-0.17835	
KGE	'MUSTANG 138KV'	365.5	-0.13538	OKGE	'FPLWND2 34KV'	43.0032	-0.00582	-0.12956	
KGE	'MUSTANG 138KV'	365.5	-0.13538	OKGE	'MUSKOGEE 345KV'	1516		-0.1336	
KGE KGE	'MUSTANG 69KV' 'MUSTANG 69KV'	106	-0.13972 -0.13972		'AES 161KV' 'FPLWND2 34KV'	320 43.0032	0.00083	-0.14055	
KGE	'MUSTANG 69KV'	100	-0.13972		'MUSKOGEE 345KV'	1516		-0.13794	
(GE	'MUSTANG 69KV'	106	-0.13972		SOONER 138KV	505		-0.12584	
(GE (GE	'MUSTANG 69KV' 'MUSTANG 138KV'	106 365.5	-0.13972 -0.13538		'SOONER 345KV' 'ONE OAK 345KV'	513		-0.12578 -0.11663	
(GE	'MUSTANG 138KV'	365.5	-0.13538		'SOONER 138KV'	505		-0.1215	
(GE	'MUSTANG 138KV'	365.5	-0.13538		'SOONER 345KV'	513		-0.12144	
KGE KGE	'MUSTANG 69KV' 'HORSESHOE LAKE 138KV'	106 380.5	-0.13972	OKGE	'ONE OAK 345KV' 'SEMINOLE 138KV'	457.2728		-0.12097	
KGE	'HORSESHOE LAKE 138KV'	91	-0.0583		'SEMINOLE 138KV'	457.2728		-0.07273	
KGE	'HORSESHOE LAKE 138KV'	380	-0.0583		SEMINOLE 138KV	457.2728		-0.07273	
KGE KGE	'HORSESHOE LAKE 138KV' 'HORSESHOE LAKE 138KV'	91 380	-0.0583		'SEMINOLE 345KV' 'SEMINOLE 345KV'	590.52 590.52	0.01418	-0.07248 -0.07248	
KGE	'HORSESHOE LAKE 138KV'	380.5	-0.0583		'SEMINOLE 345KV'	590.52	0.01418	-0.07248	
KGE	'HORSESHOE LAKE 69KV'	16		OKGE	SEMINOLE 138KV	457.2728		-0.07043	
KGE KGE	'HORSESHOE LAKE 69KV' 'HORSESHOE LAKE 138KV'	16 380.5	-0.056	OKGE	'SEMINOLE 345KV' 'AES 161KV'	590.52	0.01418	-0.07018	
KGE	'HORSESHOE LAKE 138KV'	380			'AES 161KV'	320		-0.05913	
KGE	'HORSESHOE LAKE 138KV'	91	-0.0583		'AES 161KV'	320		-0.05913	
KGE KGE	'HORSESHOE LAKE 138KV' 'HORSESHOE LAKE 138KV'	380.5	-0.0583		MUSKOGEE 345KV' MUSKOGEE 345KV'	1516		-0.05652	
KGE	'HORSESHOE LAKE 138KV'	380	-0.0583		'MUSKOGEE 345KV'	1516		-0.05652	
KGE	'HORSESHOE LAKE 69KV'	16	-0.056	OKGE	'AES 161KV'	320		-0.05683	
KGE KGE	'HORSESHOE LAKE 138KV' 'HORSESHOE LAKE 138KV'	380.5 380	-0.0583 -0.0583		'FPLWND2 34KV' 'FPLWND2 34KV'	43.0032		-0.05248	
KGE	'HORSESHOE LAKE 138KV'	91			'FPLWND2 34KV'	43.0032		-0.05248	
KGE	'HORSESHOE LAKE 69KV'	16	-0.056	OKGE	'MUSKOGEE 345KV'	1516		-0.05422	
KGE KGE	'HORSESHOE LAKE 69KV' 'HORSESHOE LAKE 138KV'	16	-0.056	OKGE	'FPLWND2 34KV' 'SOONER 138KV'	43.0032		-0.05018	
KGE	'HORSESHOE LAKE 138KV'	380	-0.0583	OKGE	'SOONER 138KV'	505	-0.01388	-0.04442	
KGE	'HORSESHOE LAKE 138KV'	380.5	-0.0583	OKGE	'SOONER 138KV'	505	-0.01388	-0.04442	
KGE KGE	'HORSESHOE LAKE 138KV' 'HORSESHOE LAKE 138KV'	380.5 91	-0.0583		'SOONER 345KV' 'SOONER 345KV'	513		-0.04436	
KGE	'HORSESHOE LAKE 138KV'	380	-0.0583	OKGE	'SOONER 345KV'	513	-0.01394	-0.04436	i
KGE	'TINKER 5G 138KV'	62	-0.02997		SEMINOLE 138KV	457.2728		-0.0444	
KGE	'TINKER 5G 138KV' 'HORSESHOE LAKE 69KV'	62	-0.02997	OKGE OKGE	'SEMINOLE 345KV' 'SOONER 138KV'	590.52		-0.04415	
KGE	'HORSESHOE LAKE 69KV'	16	-0.056	OKGE	SOONER 345KV	513		-0.04212	
KGE	'HORSESHOE LAKE 138KV'	380	-0.0583	OKGE	'ONE OAK 345KV'	100	-0.01875	-0.03955	
(GE (GE	'HORSESHOE LAKE 138KV' 'HORSESHOE LAKE 138KV'	91 380.5	-0.0583		'ONE OAK 345KV' 'ONE OAK 345KV'	100		-0.03955	
FEC	'MORLND 138KV'	320	-0.00582	WFEC	'ANADARKO 138KV'	227.1169	0.03305	-0.03887	
(GE	'HORSESHOE LAKE 69KV'	16	-0.056	OKGE	'ONE OAK 345KV'	100	-0.01875	-0.03725	1
(GE (GE	'ONE OAK 345KV' 'ONE OAK 345KV'	236 236			'SEMINOLE 138KV' 'SEMINOLE 345KV'	457.2728		-0.03318	
KGE	'REDBUD 345KV'	421.65	-0.01762	OKGE	'SEMINOLE 138KV'	457.2728	0.01443	-0.03205	
(GE	'REDBUD 345KV'	900	-0.01762	OKGE	SEMINOLE 138KV	457.2728	0.01443	-0.03205	
(GE (GE	'REDBUD 345KV' 'REDBUD 345KV'	900 421.65	-0.01762 -0.01762	OKGE	'SEMINOLE 345KV' 'SEMINOLE 345KV'	590.52 590.52		-0.0318	
EPW	'COGENTRIX 345KV'	421.05	-0.001762		SOUTHWESTERN STATION 138KV	29		-0.03115	
PW	'NORTHEASTERN STATION 138KV'	198	-0.00456	AEPW	'SOUTHWESTERN STATION 138KV'	29	0.02625	-0.03081	
EPW EPW	'NORTHEASTERN STATION 345KV' 'RIVERSIDE STATION 138KV'	94.99997 529	-0.00434 -0.00441	AEPW	'SOUTHWESTERN STATION 138KV' 'SOUTHWESTERN STATION 138KV'	29		-0.03059	<u> </u>
:PW KGE	TINKER 5G 138KV	529	-0.00441		AES 161KV	320		-0.03066	
PW	'TULSA POWER STATION 138KV'	147	-0.00475	AEPW	'SOUTHWESTERN STATION 138KV'	29	0.02625	-0.031	
PW	TULSA POWER STATION 138KV	147	-0.00475		'SOUTHWESTERN STATION 138KV' 'SOUTHWESTERN STATION 138KV'	29		-0.031	
PW PW	TULSA POWER STATION 69KV' TULSA POWER STATION 69KV'	33 24			SOUTHWESTERN STATION 138KV SOUTHWESTERN STATION 138KV	29		-0.031	
PW	'TULSA POWER STATION 69KV'	23	-0.00475	AEPW	'SOUTHWESTERN STATION 138KV'	29	0.02625	-0.031	
PW	'MID-CONTINENT 138KV'	142.11	0.0000	AEPW	'SOUTHWESTERN STATION 138KV'	29	0.02625	-0.03015	1

AEPW [Vec 346kV ] 1210 -0.00406[AEPW ]SOUTHWESTERN STA 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

Limiting Facility: Direction:	SOUTH WAVERLY 161/69KV TRANSFORMER CKT 1 RE SOUTH WAVERLY 161/69KV TRANSFORMER CKT 1 From->To NORTON - NORTON 161KV CKT 1	EDISPATCH							
Flowgate:	58063580941961055806411206SH								
Date Redispatch Needed:	6/1/06 - 10/1/06								
Season Flowgate Identified:	2006 Summer Shoulder								
		Aggregate Relief							
Reservation	Relief Amount	Amount							
1031553	1.0	1.0							
		Maximum		Sink Control		Maximum			Redispatch
	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
	'CITY OF HIGGINSVILLE 69KV'	36			'MARSHALL 161KV'	30	0.06905	-0.30954	3
	'CITY OF HIGGINSVILLE 69KV'	36	-0.24049		'HAWTHORN 161KV'	455		-0.23575	4
	'CITY OF HIGGINSVILLE 69KV'	36	-0.24049		'HAWTHORN 161KV'	152.759	-0.00474	-0.23575	4
	'CITY OF HIGGINSVILLE 69KV'	36	-0.24049		'IATAN 345KV'	396		-0.23671	4
	'CITY OF HIGGINSVILLE 69KV'	36	-0.24049		'LACYGNE UNIT 345KV'	962	-0.00432	-0.23617	4
	'CITY OF HIGGINSVILLE 69KV'	36	-0.24049		'MONTROSE 161KV'	355.2856	-0.00673	-0.23376	4
KACP	'BULL CREEK 161KV'	308	-0.00461	KACP	'MARSHALL 161KV'	30	0.06905	-0.07366	13
KACP	'GARDNER 161KV'	11	-0.00466	KACP	'MARSHALL 161KV'	30	0.06905	-0.07371	13
	'GRAND AVENUE 161KV'	65	-0.00476		'MARSHALL 161KV'	30	0.06905	-0.07381	13
KACP	'HAWTHORN 161KV'	161.241	-0.00474	KACP	'MARSHALL 161KV'	30	0.06905	-0.07379	13
KACP	'MONTROSE 161KV'	25.71445	-0.00673	KACP	'MARSHALL 161KV'	30	0.06905	-0.07578	13
	'NORTHEAST 13KV'	59	-0.00476		'MARSHALL 161KV'	30	0.06905	-0.07381	13
	'NORTHEAST 13KV'	58	-0.00476		'MARSHALL 161KV'	30		-0.07381	13
KACP	'NORTHEAST 13KV'	56	-0.00476	KACP	'MARSHALL 161KV'	30	0.06905	-0.07381	13
KACP	'NORTHEAST 13KV'	56	-0.00476	KACP	'MARSHALL 161KV'	30	0.06905	-0.07381	13
	'NORTHEAST 161KV'	58	-0.00476	KACP	'MARSHALL 161KV'	30	0.06905	-0.07381	13
KACP	'NORTHEAST 161KV'	58	-0.00476	KACP	'MARSHALL 161KV'	30	0.06905	-0.07381	13
KACP	'NORTHEAST 161KV'	58	-0.00476	KACP	'MARSHALL 161KV'	30	0.06905	-0.07381	13
KACP	'NORTHEAST 161KV'	55	-0.00476	KACP	'MARSHALL 161KV'	30	0.06905	-0.07381	13
KACP	'PAOLA COMBUSTION TURBINES 161KV'	77	-0.00464	KACP	'MARSHALL 161KV'	30	0.06905	-0.07369	13

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

pgrade: miting Facility:	STULL SWITCHING STATION - TECUMSEH HILL 115KV STULL SWITCHING STATION - TECUMSEH HILL 115KV							
rection:	To->From	ORT						
ne Outage:	HOYT - STRANGER CREEK 345KV CKT 1							
owgate:	57270571821567655677211107FA							
ate Redispatch Needed:	Starting 2007 10/1 - 12/1 Until EOC of Upgrade							
ason Flowgate Identified:	2007 Fall Peak							
		Aggregate Relief						
eservation 1035259	Relief Amount 4.0	Amount						
1035255	9 4.0	4.0 Maximum	Sink Control		Maximum	-	1	Redispatch
ource Control Area	Source	Increment(MW)	GSF Area	Sink	Decrement(MW)	GSF	Factor	Amount (M
ERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.15465 WERE	TECUMSEH ENERGY CENTER 115KV	108			
ERE	'LAWRENCE ENERGY CENTER 230KV'	44,22256	-0.08731 WERE	TECUMSEH ENERGY CENTER 115KV	108			
ERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.15465 WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06094	-0.21559	
ERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.15465 WERE	'JEFFREY ENERGY CENTER 230KV'	486			
ERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.15465 WERE	'JEFFREY ENERGY CENTER 345KV'	924			
ERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.15465 WERE	'HUTCHINSON ENERGY CENTER 115KV'	57.01367			
ERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.15465 WERE	'SMOKEY HILLS 34KV'	50			
ERE	'LAWRENCE ENERGY CENTER 115KV' 'LAWRENCE ENERGY CENTER 115KV'	178 178	-0.15465 WERE -0.15465 WERE	'EVANS ENERGY CENTER 138KV' 'GILL ENERGY CENTER 138KV'	305			
ERE	LAWRENCE ENERGY CENTER 115KV	178	-0.15465 WERE	WACO 138KV	17.946			
ERE	'CITY OF GIRARD 69KV'	8.909	0.00175 WERE	TECUMSEH ENERGY CENTER 115KV	108			-
ERE	'CITY OF IOLA 69KV'	13.372	0.00198 WERE	TECUMSEH ENERGY CENTER 115KV	108			
ERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.15465 WERE	'CITY OF WELLINGTON 69KV'	39.5	0.01176	-0.16641	
ERE	'NEOSHO ENERGY CENTER 138KV'	67	0.00289 WERE	'TECUMSEH ENERGY CENTER 115KV'	108		-0.16201	
ERE	'CITY OF FREDONIA 69KV'	10.294	0.00409 WERE	'TECUMSEH ENERGY CENTER 115KV'	108			
ERE	LAWRENCE ENERGY CENTER 115KV	178	-0.15465 WERE	CHANUTE 69KV	56.296			
ERE	LAWRENCE ENERGY CENTER 115KV	178 178	-0.15465 WERE -0.15465 WERE	CITY OF BURLINGTON 69KV'	10.5			l
ERE	'LAWRENCE ENERGY CENTER 115KV' 'LAWRENCE ENERGY CENTER 115KV'	178	-0.15465 WERE -0.15465 WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	24.256			<u> </u>
ERE	LAWRENCE ENERGY CENTER 115KV	44.22256	-0.08731 WERE	JEFFREY ENERGY CENTER 230KV	486			-
ERE	'LAWRENCE ENERGY CENTER 230KV'	44.22256	-0.08731 WERE	JEFFREY ENERGY CENTER 345KV	924			
ERE	CITY OF MULVANE 69KV	10.899	0.01258 WERE	TECUMSEH ENERGY CENTER 115KV	108			
ERE	'CITY OF WINFIELD 69KV'	33.672	0.0108 WERE	'TECUMSEH ENERGY CENTER 115KV'	108		-0.1541	
ERE	'EVANS ENERGY CENTER 138KV'	348	0.01425 WERE	'TECUMSEH ENERGY CENTER 115KV'	108			
ERE	'GETTY 69KV'	35	0.01237 WERE	'TECUMSEH ENERGY CENTER 115KV'	108			
ERE	'GILL ENERGY CENTER 138KV'	17.99999	0.01366 WERE	'TECUMSEH ENERGY CENTER 115KV'	108			
ERE	'GILL ENERGY CENTER 69KV'	118	0.01339 WERE	'TECUMSEH ENERGY CENTER 115KV'	108			
ERE	LAWRENCE ENERGY CENTER 230KV	44.22256	-0.08731 WERE	ABILENE ENERGY CENTER 115KV	40			
ERE	'LAWRENCE ENERGY CENTER 230KV' 'LAWRENCE ENERGY CENTER 230KV'	44.22256 44.22256	-0.08731 WERE -0.08731 WERE	'SMOKEY HILLS 34KV' 'HUTCHINSON ENERGY CENTER 115KV'	50 57.01367	0.05191 0.04944		
ERE	SOUTH SENECA 115KV	15	0.04224 WERE	TECUMSEH ENERGY CENTER 115KV	108			
ERE	'HUTCHINSON ENERGY CENTER 115KV'	325.9863	0.04944 WERE	TECUMSEH ENERGY CENTER 115KV	108			
'ERE	'HUTCHINSON ENERGY CENTER 69KV'	67	0.04943 WERE	'TECUMSEH ENERGY CENTER 115KV'	108			
'ERE	'BPU - CITY OF MCPHERSON 115KV'	259	0.05231 WERE	'TECUMSEH ENERGY CENTER 115KV'	108			
ERE	'CLAY CENTER JUNCTION 115KV'	28.7	0.06379 WERE	'TECUMSEH ENERGY CENTER 115KV'	108			
ERE	'LAWRENCE ENERGY CENTER 230KV'	44.22256	-0.08731 WERE	'EVANS ENERGY CENTER 138KV'	305			
ERE	LAWRENCE ENERGY CENTER 230KV	44.22256	-0.08731 WERE -0.08731 WERE	'GILL ENERGY CENTER 138KV' 'WACO 138KV'	155			
ERE	'LAWRENCE ENERGY CENTER 230KV' 'LAWRENCE ENERGY CENTER 230KV'	44.22256 44.22256	-0.08731 WERE	CITY OF WELLINGTON 69KV	39.5		-0.10103	
ERE	JEFFREY ENERGY CENTER 345KV	44.22256	0.07077 WERE	TECUMSEH ENERGY CENTER 115KV	108			
ERE	'LAWRENCE ENERGY CENTER 230KV'	44,22256	-0.08731 WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.96			-
ERE	'LAWRENCE ENERGY CENTER 230KV'	44.22256	-0.08731 WERE	CITY OF IOLA 69KV	24.256			
ERE	'HOLTON 115KV'	19.8	0.07627 WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.1649	-0.08863	
ERE	'NEOSHO ENERGY CENTER 138KV'	67	0.00289 WERE	'JEFFREY ENERGY CENTER 345KV'	924	0.07077	-0.06788	
ERE	'LAWRENCE ENERGY CENTER 115KV'	178	-0.15465 WERE	'LAWRENCE ENERGY CENTER 230KV'	224.7774			
ERE	'NEOSHO ENERGY CENTER 138KV'	67	0.00289 WERE	'JEFFREY ENERGY CENTER 230KV'	486		-0.06711	
ERE	CITY OF WINFIELD 69KV	33.672	0.0108 WERE	JEFFREY ENERGY CENTER 345KV	924			
ERE ERE	'CITY OF WINFIELD 69KV' 'GETTY 69KV'	33.672	0.0108 WERE 0.01237 WERE	JEFFREY ENERGY CENTER 230KV JEFFREY ENERGY CENTER 345KV	486			
ERE	'NEOSHO ENERGY CENTER 138KV'	35	0.00289 WERE	ABILENE ENERGY CENTER 345KV	924			<u> </u>
ERE	'GETTY 69KV'	35	0.01237 WERE	JEFFREY ENERGY CENTER 230KV	486			
ERE	'GILL ENERGY CENTER 69KV'	118	0.01339 WERE	JEFFREY ENERGY CENTER 345KV	924			
ERE	'EVANS ENERGY CENTER 138KV'	348	0.01425 WERE	'JEFFREY ENERGY CENTER 345KV'	924			
ERE	'GILL ENERGY CENTER 69KV'	118	0.01339 WERE	'JEFFREY ENERGY CENTER 230KV'	486			
ERE	'EVANS ENERGY CENTER 138KV'	348	0.01425 WERE	'JEFFREY ENERGY CENTER 230KV'	486			
RE	CITY OF WINFIELD 69KV	33.672	0.0108 WERE	'ABILENE ENERGY CENTER 115KV'	40			
RE	'GETTY 69KV' 'NEOSHO ENERGY CENTER 138KV'	35	0.01237 WERE	ABILENE ENERGY CENTER 115KV	40			
ERE	GILL ENERGY CENTER 138KV	118	0.00289 WERE 0.01339 WERE	'SMOKEY HILLS 34KV' 'ABILENE ENERGY CENTER 115KV'	40			<u> </u>
RE	'EVANS ENERGY CENTER 138KV'	348	0.01339 WERE	ABILENE ENERGY CENTER 115KV	40			
RE	'NEOSHO ENERGY CENTER 138KV'	67	0.00289 WERE	'HUTCHINSON ENERGY CENTER 115KV'	57.01367			
ERE	'CITY OF WINFIELD 69KV'	33.672	0.0108 WERE	'SMOKEY HILLS 34KV'	50			
ERE	'GETTY 69KV'	35	0.01237 WERE	'SMOKEY HILLS 34KV'	50			
ERE	'GILL ENERGY CENTER 69KV'	118	0.01339 WERE	'SMOKEY HILLS 34KV'	50			
ERE	'EVANS ENERGY CENTER 138KV'	348	0.01425 WERE	'SMOKEY HILLS 34KV'	50			
ERE ERE	'GILL ENERGY CENTER 69KV'	118	0.01339 WERE	'HUTCHINSON ENERGY CENTER 115KV'	57.01367			<b> </b>
	'EVANS ENERGY CENTER 138KV'	348	0.01425 WERE	'HUTCHINSON ENERGY CENTER 115KV'	57.01367	0.04944	-0.03519	I

Upgrade:	STULL SWITCHING STATION - TECUMSEH HILL 115K	/ CKT 1	
Limiting Facility:	STULL SWITCHING STATION - TECUMSEH HILL 115KV	/ CKT 1	
Direction:	To->From		
Line Outage:	HOYT - STRANGER CREEK 345KV CKT 1		
Flowgate:	57270571821567655677211107SH		
Date Redispatch Needed:	6/1 - 10/1 Until EOC of Upgrade		
Season Flowgate Identified:	2007 Summer Shoulder		
		Aggregate Relief	
Reservation	Relief Amount	Amount	
1035259	4.0	4.0	1
		Maximum	
Source Control Area	Source	Increment(MW)	GSF
WERE	'LAWRENCE ENERGY CENTER 115KV'	78	-0.1
WERE	'LAWRENCE ENERGY CENTER 230KV'	45.87595	-0.0

		Maximum		Sink Control		Maximum			Redispatch
urce Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW
RE	LAWRENCE ENERGY CENTER 115KV	78			TECUMSEH ENERGY CENTER 115KV	108		-0.31954	Amount (www
RE	'LAWRENCE ENERGY CENTER 230KV'	45.87595	-0.08732		'TECUMSEH ENERGY CENTER 115KV'	108		-0.25221	
	LAWRENCE ENERGY CENTER 115KV	78			'ABILENE ENERGY CENTER 115KV'	40		-0.21559	
RE	'LAWRENCE ENERGY CENTER 115KV'	78	-0.15465		'JEFFREY ENERGY CENTER 230KV'	486		-0.22465	
RE	'LAWRENCE ENERGY CENTER 115KV'	78	-0.15465	WERE	JEFFREY ENERGY CENTER 345KV	924	0.07076	-0.22541	
	'LAWRENCE ENERGY CENTER 115KV'	78	-0.15465		'BPU - CITY OF MCPHERSON 115KV'	128.3303	0.0523	-0.20695	
	'LAWRENCE ENERGY CENTER 115KV'	78	-0.15465		'HUTCHINSON ENERGY CENTER 115KV'	120		-0.20408	
	'LAWRENCE ENERGY CENTER 115KV'	78			'SMOKEY HILLS 34KV'	50			
	'LAWRENCE ENERGY CENTER 115KV'	78	-0.15465		'EVANS ENERGY CENTER 138KV'	340		-0.16889	
	'LAWRENCE ENERGY CENTER 115KV'	78	-0.15465	WERE	'GILL ENERGY CENTER 138KV'	155		-0.1683	
	'LAWRENCE ENERGY CENTER 115KV'	78	-0.15465		'WACO 138KV'	17.947		-0.16836	
	'CITY OF IOLA 69KV'	17.763	0.00198		TECUMSEH ENERGY CENTER 115KV	108		-0.16291	
	'LAWRENCE ENERGY CENTER 115KV'	78	-0.15465		'CITY OF AUGUSTA 69KV'	26.1		-0.16679	
	'LAWRENCE ENERGY CENTER 115KV'	78	-0.15465		'CITY OF WELLINGTON 69KV'	39.5		-0.16641	
	'LAWRENCE ENERGY CENTER 115KV'	78	-0.15465		'CITY OF WINFIELD 69KV'	39.90401			
	'NEOSHO ENERGY CENTER 138KV'	67	0.00288		'TECUMSEH ENERGY CENTER 115KV'	108		-0.16201	
	'CITY OF FREDONIA 69KV'	10.294	0.00409		TECUMSEH ENERGY CENTER 115KV	108		-0.1608	
RE	'LAWRENCE ENERGY CENTER 115KV'	78	-0.15465		CHANUTE 69KV'	46.617	0.00291	-0.15756	
	LAWRENCE ENERGY CENTER 115KV	78	-0.15465		CITY OF BURLINGTON 69KV	10.5		-0.15991	
RE	LAWRENCE ENERGY CENTER 115KV	78	-0.15465		CITY OF ERIE 69KV	19.965	0.00320	-0.15756	1
	LAWRENCE ENERGY CENTER 115KV	78	-0.15465		CITY OF IOLA 69KV	19.865	0.00291	-0.15663	
	LAWRENCE ENERGY CENTER 115KV	78	-0.15465		COFFEY COUNTY NO. 2 SHARPE 69KV	19.865	0.00198	-0.15991	t
	'LAWRENCE ENERGY CENTER 230KV'	45.87595	-0.08732		JEFFREY ENERGY CENTER 230KV	486	0.00320	-0.15732	1
	LAWRENCE ENERGY CENTER 230KV	45.87595	-0.08732		JEFFREY ENERGY CENTER 345KV	924		-0.15732	<u> </u>
	CITY OF MULVANE 69KV	9.601001	0.01258		TECUMSEH ENERGY CENTER 115KV	924		-0.15231	1
	'EVANS ENERGY CENTER 138KV'	9.601001	0.01258		TECUMSEH ENERGY CENTER 115KV	108		-0.15231	<u> </u>
	GETTY 69KV	313	0.01424		TECUMSEH ENERGY CENTER 115KV	108		-0.15065	<u> </u>
	GILL ENERGY CENTER 138KV	17.99999	0.01237		TECUMSEN ENERGY CENTER 115KV	108		-0.15252	
	GILL ENERGY CENTER 69KV	17.99999	0.01365		TECUMSER ENERGY CENTER 115KV	108		-0.15124	
	'LAWRENCE ENERGY CENTER 230KV'	45.87595	-0.08732		ABILENE ENERGY CENTER 115KV	40			
								-0.14826	
	'LAWRENCE ENERGY CENTER 230KV'	45.87595	-0.08732		'BPU - CITY OF MCPHERSON 115KV'	128.3303		-0.13962	
	'LAWRENCE ENERGY CENTER 230KV'	45.87595	-0.08732		SMOKEY HILLS 34KV	50			
	'LAWRENCE ENERGY CENTER 230KV'	45.87595	-0.08732		'HUTCHINSON ENERGY CENTER 115KV'	120		-0.13675	
	SOUTH SENECA 115KV	15	0.04222		'TECUMSEH ENERGY CENTER 115KV'	108		-0.12267	
	'HUTCHINSON ENERGY CENTER 115KV'	263	0.04943		TECUMSEH ENERGY CENTER 115KV	108		-0.11546	
	'HUTCHINSON ENERGY CENTER 69KV'	67	0.04942		'TECUMSEH ENERGY CENTER 115KV'	108		-0.11547	
	'CLAY CENTER JUNCTION 115KV'	28.7	0.06379		'TECUMSEH ENERGY CENTER 115KV'	108		-0.1011	
	'LAWRENCE ENERGY CENTER 230KV'	45.87595	-0.08732		'EVANS ENERGY CENTER 138KV'	340		-0.10156	
	'LAWRENCE ENERGY CENTER 230KV'	45.87595	-0.08732		'GILL ENERGY CENTER 138KV'	155		-0.10097	
	'LAWRENCE ENERGY CENTER 230KV'	45.87595	-0.08732		'WACO 138KV'	17.947		-0.10103	
	'LAWRENCE ENERGY CENTER 230KV'	45.87595	-0.08732		'CITY OF AUGUSTA 69KV'	26.1		-0.09946	
	'JEFFREY ENERGY CENTER 345KV'	58	0.07076		'TECUMSEH ENERGY CENTER 115KV'	108	0.16489	-0.09413	
	'LAWRENCE ENERGY CENTER 230KV'	45.87595	-0.08732		COFFEY COUNTY NO. 2 SHARPE 69KV	19.96		-0.09258	
	'LAWRENCE ENERGY CENTER 230KV'	45.87595	-0.08732		'CITY OF ERIE 69KV'	19.965		-0.09023	
	'LAWRENCE ENERGY CENTER 230KV'	45.87595	-0.08732		'CITY OF IOLA 69KV'	19.865		-0.0893	
	'HOLTON 115KV'	19.8	0.07626		'TECUMSEH ENERGY CENTER 115KV'	108		-0.08863	
	'NEOSHO ENERGY CENTER 138KV'	67	0.00288		'JEFFREY ENERGY CENTER 345KV'	924		-0.06788	
	'LAWRENCE ENERGY CENTER 115KV'	78	-0.15465		'LAWRENCE ENERGY CENTER 230KV'	223.1241		-0.06733	
	'NEOSHO ENERGY CENTER 138KV'	67	0.00288		'JEFFREY ENERGY CENTER 230KV'	486	0.07		
RE	'GETTY 69KV'	35	0.01237		'JEFFREY ENERGY CENTER 345KV'	924		-0.05839	
RE	'NEOSHO ENERGY CENTER 138KV'	67	0.00288		'ABILENE ENERGY CENTER 115KV'	40		-0.05806	
	'GETTY 69KV'	35	0.01237		'JEFFREY ENERGY CENTER 230KV'	486	0.07	-0.05763	
	'GILL ENERGY CENTER 69KV'	118	0.01338		'JEFFREY ENERGY CENTER 345KV'	924		-0.05738	
	'EVANS ENERGY CENTER 138KV'	313	0.01424		'JEFFREY ENERGY CENTER 345KV'	924		-0.05652	
	'GILL ENERGY CENTER 69KV'	118	0.01338		'JEFFREY ENERGY CENTER 230KV'	486	0.07	-0.05662	
	'EVANS ENERGY CENTER 138KV'	313	0.01424		'JEFFREY ENERGY CENTER 230KV'	486	0.07	-0.05576	
RE	'NEOSHO ENERGY CENTER 138KV'	67	0.00288	WERE	'BPU - CITY OF MCPHERSON 115KV'	128.3303	0.0523	-0.04942	
	'GETTY 69KV'	35	0.01237		'ABILENE ENERGY CENTER 115KV'	40		-0.04857	
	'NEOSHO ENERGY CENTER 138KV'	67	0.00288		'SMOKEY HILLS 34KV'	50			
	'GILL ENERGY CENTER 69KV'	118	0.01338		'ABILENE ENERGY CENTER 115KV'	40		-0.04756	
RE	'EVANS ENERGY CENTER 138KV'	313	0.01424	WERE	'ABILENE ENERGY CENTER 115KV'	40		-0.0467	
	'NEOSHO ENERGY CENTER 138KV'	67	0.00288		'HUTCHINSON ENERGY CENTER 115KV'	120		-0.04655	
RE	'GETTY 69KV'	35	0.01237	WERE	'BPU - CITY OF MCPHERSON 115KV'	128.3303	0.0523	-0.03993	
RE	'GETTY 69KV'	35	0.01237	WERE	'SMOKEY HILLS 34KV'	50	0.0519	-0.03953	
	'GILL ENERGY CENTER 69KV'	118	0.01338		'BPU - CITY OF MCPHERSON 115KV'	128.3303	0.0523	-0.03892	
	'GILL ENERGY CENTER 69KV'	118	0.01338		'SMOKEY HILLS 34KV'	50			
	'EVANS ENERGY CENTER 138KV'	313	0.01424		'BPU - CITY OF MCPHERSON 115KV'	128.3303		-0.03806	
	'EVANS ENERGY CENTER 138KV'	313	0.01424		'SMOKEY HILLS 34KV'	50		-0.03766	
	'GILL ENERGY CENTER 69KV'	118	0.01338		'HUTCHINSON ENERGY CENTER 115KV'	120		-0.03605	
	'EVANS ENERGY CENTER 138KV'	313	0.01424	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.04943	-0.03519	t
	num Increment were determine from the Souce and Sink (					120	0.04343	-0.00019	I

Limiting Facility: Direction:	STULL SWITCHING STATION - TECUMSEH HILL 115KV To->From	GRIT							
Line Outage:	HOYT - STRANGER CREEK 345KV CKT 1								
Flowgate:	57270571821567655677211107SP								
Date Redispatch Needed:	6/1/07 - 10/1/07								
Season Flowgate Identified:	2007 Summer Peak								
*		Aggregate Relief							
Reservation	Relief Amount	Amount							
103525	9 4.0	4.0							
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink		GSF	Factor	Amount (MW)
WERE	'CITY OF IOLA 69KV'	13.361			'TECUMSEH ENERGY CENTER 115KV'	158			
WERE	'NEOSHO ENERGY CENTER 138KV'	47	0.00288		'TECUMSEH ENERGY CENTER 115KV'	158	0.16489		24
WERE	'GETTY 69KV'	35	0.01237	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.16489	-0.15252	
WERE	'HUTCHINSON ENERGY CENTER 115KV'	133	0.04943	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.16489	-0.11546	
WERE	'HUTCHINSON ENERGY CENTER 69KV'	12			'TECUMSEH ENERGY CENTER 115KV'	158			
WERE	'BPU - CITY OF MCPHERSON 115KV'	17.25488		WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.16489		
WERE	'CLAY CENTER JUNCTION 115KV'	28.7	0.06379	WERE	'TECUMSEH ENERGY CENTER 115KV'	158	0.16489	-0.1011	
WERE	'NEOSHO ENERGY CENTER 138KV'	47	0.00288	WERE	'JEFFREY ENERGY CENTER 345KV'	924	0.07076	-0.06788	
WERE	'NEOSHO ENERGY CENTER 138KV'	47	0.00288	WERE	'JEFFREY ENERGY CENTER 230KV'	486	0.07	-0.06712	
WERE	'GETTY 69KV'	35	0.01237	WERE	'JEFFREY ENERGY CENTER 345KV'	924	0.07076	-0.05839	68
WERE	'NEOSHO ENERGY CENTER 138KV'	47	0.00288	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06094	-0.05806	68
WERE	'GETTY 69KV'	35	0.01237	WERE	'JEFFREY ENERGY CENTER 230KV'	486	0.07	-0.05763	69
WERE	'NEOSHO ENERGY CENTER 138KV'	47	0.00288	WERE	'BPU - CITY OF MCPHERSON 115KV'	156.7451	0.0523	-0.04942	
WERE	'GETTY 69KV'	35	0.01237	WERE	'ABILENE ENERGY CENTER 115KV'	40	0.06094	-0.04857	81
WERE	'NEOSHO ENERGY CENTER 138KV'	47	0.00288	WERE	'SMOKEY HILLS 34KV'	50	0.0519	-0.04902	
WERE	'NEOSHO ENERGY CENTER 138KV'	47	0.00288	WERE	'HUTCHINSON ENERGY CENTER 115KV'	210	0.04943	-0.04655	
WERE	'NEOSHO ENERGY CENTER 138KV'	47	0.00288	WERE	'HUTCHINSON ENERGY CENTER 69KV'	40	0.04942	-0.04654	85
WERE	'GETTY 69KV'	35			'BPU - CITY OF MCPHERSON 115KV'	156.7451	0.0523	-0.03993	
WERE	'GETTY 69KV'	35			'SMOKEY HILLS 34KV'	50	0.0519	-0.03953	100
Maximum Decrement and Max	ximum Increment were determine from the Souce and Sink	Operating Points in t	he study mo	dels where lim	ting facility was identified.				
Factor = Source GSE - Sink G	SE		,						

Upgrade: Limiting Facility:	STULL SWITCHING STATION - TECUMSEH HILL 115KV STULL SWITCHING STATION - TECUMSEH HILL 115KV								
Direction:	To->From	GRIT							
Line Outage:	HOYT - STRANGER CREEK 345KV CKT 1								
Flowgate:	57270571821567655677211107WP								
Date Redispatch Needed:	12/1/07 - 4/1/08								
Season Flowgate Identified:	2007 Winter Peak								
Season nowgate identified.	2007 Winter Feak	Aggregate Relief	٦						
Reservation	Relief Amount	Amount							
103525	9 3.9	3.9							
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
WERE	'CHANUTE 69KV'	45.782			'TECUMSEH ENERGY CENTER 115KV'	128			
WERE	'CITY OF ERIE 69KV'	26.53			'TECUMSEH ENERGY CENTER 115KV'	128			
WERE	'CITY OF GIRARD 69KV'	9.21			'TECUMSEH ENERGY CENTER 115KV'	128			
WERE	'CITY OF IOLA 69KV'	23.063	0.00191		'TECUMSEH ENERGY CENTER 115KV'	128			
WERE	'NEOSHO ENERGY CENTER 138KV'	47			'TECUMSEH ENERGY CENTER 115KV'	128			
WERE	'CITY OF FREDONIA 69KV'	10.294			'TECUMSEH ENERGY CENTER 115KV'	128			
WERE	'SOUTH SENECA 115KV'	15			'TECUMSEH ENERGY CENTER 115KV'	128		-0.12266	
WERE	'CITY OF IOLA 69KV'	23.063			'JEFFREY ENERGY CENTER 345KV'	924		-0.0688	
WERE	'CITY OF ERIE 69KV'	26.53			'JEFFREY ENERGY CENTER 345KV'	924		-0.06786	
WERE	'CITY OF IOLA 69KV'	23.063	0.00191		'JEFFREY ENERGY CENTER 230KV'	486		-0.06803	58
WERE	'NEOSHO ENERGY CENTER 138KV'	47			'JEFFREY ENERGY CENTER 345KV'	924		-0.06789	
WERE	'CITY OF ERIE 69KV'	26.53			'JEFFREY ENERGY CENTER 230KV'	486			
WERE	'NEOSHO ENERGY CENTER 138KV'	47			'JEFFREY ENERGY CENTER 230KV'	486			
WERE	'CITY OF WINFIELD 69KV'	34.68			'JEFFREY ENERGY CENTER 345KV'	924		-0.05998	
WERE	'CITY OF IOLA 69KV'	23.063			'ABILENE ENERGY CENTER 115KV'	40			67
WERE	'CITY OF WINFIELD 69KV'	34.68			'JEFFREY ENERGY CENTER 230KV'	486			67
WERE	'CITY OF ERIE 69KV'	26.53			'ABILENE ENERGY CENTER 115KV'	40			68
WERE	'GETTY 69KV'	35			'JEFFREY ENERGY CENTER 230KV'	486			
WERE	'GETTY 69KV'	35			'JEFFREY ENERGY CENTER 345KV'	924		-0.0584	68
WERE	'NEOSHO ENERGY CENTER 138KV'	47			'ABILENE ENERGY CENTER 115KV'	40			
WERE	'GILL ENERGY CENTER 69KV'	73			'JEFFREY ENERGY CENTER 345KV'	924		-0.05739	
WERE	'EVANS ENERGY CENTER 138KV'	66.94189			'JEFFREY ENERGY CENTER 345KV'	924		-0.05653	70
WERE	'GILL ENERGY CENTER 69KV'	73			'JEFFREY ENERGY CENTER 230KV'	486			
WERE	'EVANS ENERGY CENTER 138KV'	66.94189			'JEFFREY ENERGY CENTER 230KV'	486			
WERE	'CITY OF WINFIELD 69KV'	34.68			'ABILENE ENERGY CENTER 115KV'	40			
WERE	'NEOSHO ENERGY CENTER 138KV'	47			'BPU - CITY OF MCPHERSON 115KV'	135			
WERE	'NEOSHO ENERGY CENTER 138KV'	47			'SMOKEY HILLS 34KV'	50			
WERE	'GETTY 69KV'	35			'ABILENE ENERGY CENTER 115KV'	40			81
WERE	'GILL ENERGY CENTER 69KV'	73			'ABILENE ENERGY CENTER 115KV'	40			
WERE	'EVANS ENERGY CENTER 138KV'	66.94189			'ABILENE ENERGY CENTER 115KV'	40			
WERE	'NEOSHO ENERGY CENTER 138KV'	47			'HUTCHINSON ENERGY CENTER 115KV'	120			
WERE	'CITY OF WINFIELD 69KV'	34.68			'BPU - CITY OF MCPHERSON 115KV'	135			
WERE	'CITY OF WINFIELD 69KV'	34.68			'SMOKEY HILLS 34KV'	50			96
WERE	'GETTY 69KV'	35			'BPU - CITY OF MCPHERSON 115KV'	135			
WERE	'GETTY 69KV'	35			'SMOKEY HILLS 34KV'	50			100
WERE	'GILL ENERGY CENTER 69KV'	73			'BPU - CITY OF MCPHERSON 115KV'	135			101
WERE	'CITY OF WINFIELD 69KV'	34.68			'HUTCHINSON ENERGY CENTER 115KV'	120			102
WERE	'GILL ENERGY CENTER 69KV'	73			'SMOKEY HILLS 34KV'	50			102
WERE	'EVANS ENERGY CENTER 138KV'	66.94189			'BPU - CITY OF MCPHERSON 115KV'	135			104
WERE	'EVANS ENERGY CENTER 138KV'	66.94189			'SMOKEY HILLS 34KV'	50			105
WERE	'GILL ENERGY CENTER 69KV'	73			'HUTCHINSON ENERGY CENTER 115KV'	120			
WERE	'EVANS ENERGY CENTER 138KV'	66.94189	0.01418	WERE	'HUTCHINSON ENERGY CENTER 115KV'	120	0.04938	-0.0352	112

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

Upgrade:	WICHITA - RENO CO 345KV		
Limiting Facility:	EXIDE JUNCTION - SUMMIT 115KV CKT 1		
Direction:	To->From		
Line Outage:	EAST MCPHERSON - SUMMIT 230KV CKT 1		
Flowgate:	57368573811568725687312208WP		
Date Redispatch Needed:	Starting 2008 12/1 - 4/1 Until EOC		
Season Flowgate Identified:	2008 Winter Peak		
			Aggregate Relief
Reservation	Relief Amount		Amount
1034589		0.1	1.0
1034590		0.2	1.0

1034589	0.1	1.0							
1034595		1.0	1						
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		39 WERE	'JEFFREY ENERGY CENTER 230KV'	470		-0.29874	3
WERE	BPU - CITY OF MCPHERSON 115KV	259			JEFFREY ENERGY CENTER 345KV	940 231.5672	0.02064	-0.30454	3
WERE	'BPU - CITY OF MCPHERSON 115KV' 'BPU - CITY OF MCPHERSON 115KV'	259 259	-0.28	39 WERE 39 WERE	'LAWRENCE ENERGY CENTER 230KV' 'SMOKEY HILLS 34KV'	231.5672	0.00767 0.06279	-0.29157	3
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28		CHANUTE 69KV	34.903		-0.28502	4
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		39 WERE	'CITY OF AUGUSTA 69KV'	24.3		-0.28381	4
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		39 WERE	'CITY OF BURLINGTON 69KV'	10.5	0.00215	-0.28605	4
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28	39 WERE	'CITY OF GIRARD 69KV'	1.412		-0.2851	4
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		39 WERE	'CITY OF IOLA 69KV'	19.902		-0.28527	4
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28		'CITY OF MULVANE 69KV'	3.921	-0.00104	-0.28286	4
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		39 WERE	'CITY OF WELLINGTON 69KV'	39.5		-0.28221	4
WERE	'BPU - CITY OF MCPHERSON 115KV' 'BPU - CITY OF MCPHERSON 115KV'	259 259	-0.28	39 WERE 39 WERE	CITY OF WINFIELD 69KV' COFFEY COUNTY NO. 2 SHARPE 69KV'	15.81898	-0.00111	-0.28279	4
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		39 WERE	'EVANS ENERGY CENTER 138KV'	19.61		-0.28368	4
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.28		'LAWRENCE ENERGY CENTER 115KV'	16.69849	0.00742	-0.29132	4
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		39 WERE	TECUMSEH ENERGY CENTER 115KV	48		-0.29095	4
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		39 WERE	WACO 138KV	17.414		-0.28123	4
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.222	28 WERE	'JEFFREY ENERGY CENTER 230KV'	470		-0.23712	4
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383		28 WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.02064	-0.24292	4
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.222	28 WERE	'LAWRENCE ENERGY CENTER 115KV'	16.69849	0.00742	-0.2297	4
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383		28 WERE	'LAWRENCE ENERGY CENTER 230KV'	231.5672		-0.22995	4
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383		28 WERE	SMOKEY HILLS 34KV	100	0.06279	-0.28507	4
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383		28 WERE	TECUMSEH ENERGY CENTER 115KV	48		-0.22933	4
WERE	'HUTCHINSON ENERGY CENTER 69KV' 'HUTCHINSON ENERGY CENTER 69KV'	67		05 WERE	JEFFREY ENERGY CENTER 230KV JEFFREY ENERGY CENTER 345KV	940		-0.23689	4
WERE	HUTCHINSON ENERGY CENTER 69KV	67		05 WERE	LAWRENCE ENERGY CENTER 115KV	16.69849	0.02064	-0.22947	4
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67		05 WERE	'LAWRENCE ENERGY CENTER 230KV'	231.5672	0.00767	-0.22972	4
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67		05 WERE	'SMOKEY HILLS 34KV'	100		-0.28484	4
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.222	05 WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.00705	-0.2291	4
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383		28 WERE	'CHANUTE 69KV'	34.903	0.00112	-0.2234	5
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383		28 WERE	'CITY OF AUGUSTA 69KV'	24.3		-0.22219	5
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.222	28 WERE	'CITY OF BURLINGTON 69KV'	10.5	0.00215	-0.22443	5
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.222		'CITY OF IOLA 69KV'	19.902	0.00137	-0.22365	5
WERE	'HUTCHINSON ENERGY CENTER 115KV' 'HUTCHINSON ENERGY CENTER 115KV'	383	-0.222	28 WERE 28 WERE	CITY OF MULVANE 69KV' CITY OF WELLINGTON 69KV'	3.921	-0.00104	-0.22124	5
WERE	HUTCHINSON ENERGY CENTER 115KV	383	-0.222	28 WERE	CITY OF WELLINGTON 69KV	39.5 15.81898	-0.00169	-0.22059	5
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383		28 WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.61	0.00215	-0.22443	5
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383		28 WERE	'EVANS ENERGY CENTER 138KV'	110		-0.22206	5
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383		28 WERE	'WACO 138KV'	17.414		-0.21961	5
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.222	05 WERE	'CHANUTE 69KV'	34.903	0.00112	-0.22317	5
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.222	05 WERE	'CITY OF AUGUSTA 69KV'	24.3	-0.00009	-0.22196	5
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67		05 WERE	'CITY OF BURLINGTON 69KV'	10.5		-0.2242	5
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.222		'CITY OF IOLA 69KV'	19.902		-0.22342	5
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67		05 WERE	'CITY OF MULVANE 69KV'	3.921		-0.22101	5
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67 67		05 WERE	CITY OF WELLINGTON 69KV	39.5 15.81898	-0.00169	-0.22036	5
WERE	'HUTCHINSON ENERGY CENTER 69KV' 'HUTCHINSON ENERGY CENTER 69KV'	67		05 WERE 05 WERE	CITY OF WINFIELD 69KV' COFFEY COUNTY NO. 2 SHARPE 69KV'	15.81898		-0.22094	5
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.222		'EVANS ENERGY CENTER 138KV'	110		-0.22183	5
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67		05 WERE	'WACO 138KV'	17,414		-0.21938	5
WERE	'ST JOHN 115KV'	2.9	-0.113	73 WERE	'SMOKEY HILLS 34KV'	100	0.06279	-0.17652	6
WERE	'ST JOHN 115KV'	2.9	-0.113	73 WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01484	-0.12857	8
WERE	'ST JOHN 115KV'	2.9		73 WERE	'JEFFREY ENERGY CENTER 345KV'	940		-0.13437	8
WERE	ST JOHN 115KV	2.9	-0.113	73 WERE	'LAWRENCE ENERGY CENTER 115KV'	16.69849		-0.12115	8
WERE	ST JOHN 115KV	2.9		73 WERE	'LAWRENCE ENERGY CENTER 230KV'	231.5672		-0.1214	8
WERE MIDW	'ST JOHN 115KV' 'PAWNEE 115KV'	2.9		73 WERE 73 MIDW	'TECUMSEH ENERGY CENTER 115KV' 'COLBY 115KV'	6.933622		-0.12078	13
MIDW	'RICE 115KV'	999		73 MIDW	COLBY 115KV	6.933622		-0.0803	13
WEPL	'A. M. MULLERGREN GENERATOR 115KV'	63		49 WEPL	'BELOIT 115KV'	6.250004		-0.06972	15
WEPL	'NORTH WEST GREAT BEND 115KV'	8.49	-0.088	49 WEPL	'BELOIT 115KV'	6.250004		-0.06972	15
WERE	'CITY OF FREDONIA 69KV'	10.294		81 WERE	'SMOKEY HILLS 34KV'	100	0.06279	-0.06198	16
WERE	'CITY OF MULVANE 69KV'	11.869		04 WERE	'SMOKEY HILLS 34KV'	100		-0.06383	16
WERE	'CITY OF WINFIELD 69KV'	24.18102		11 WERE	'SMOKEY HILLS 34KV'	100		-0.0639	16
WERE	'EVANS ENERGY CENTER 138KV'	837	-0.000		SMOKEY HILLS 34KV	100		-0.06301	16
WERE	GETTY 69KV	35		01 WERE	SMOKEY HILLS 34KV	100		-0.06269	16
WERE	'GILL ENERGY CENTER 138KV' 'GILL ENERGY CENTER 69KV'	218		95 WERE 24 WERE	'SMOKEY HILLS 34KV' 'SMOKEY HILLS 34KV'	100		-0.06574	16
WERE	SOUTH SENECA 115KV	110		04 WERE	SMOKEY HILLS 34KV	100		-0.06503	16
WERE	CHANUTE 69KV	45.697		12 WERE	'SMOKEY HILLS 34KV'	100		-0.06167	10
WERE	'CITY OF ERIE 69KV'	26.53		12 WERE	'SMOKEY HILLS 34KV'	100		-0.06167	17
WERE	'CITY OF GIRARD 69KV'	9.288		12 WERE	'SMOKEY HILLS 34KV'	100		-0.06159	17
WERE	'CITY OF IOLA 69KV'	17.726	0.001	37 WERE	'SMOKEY HILLS 34KV'	100	0.06279	-0.06142	17
WERE	'CITY OF OSAGE CITY 115KV'	8.85		68 WERE	'SMOKEY HILLS 34KV'	100		-0.06011	17
WERE	'NEOSHO ENERGY CENTER 138KV'	67		07 WERE	'SMOKEY HILLS 34KV'	100		-0.06172	17
MIDW	'GREAT BEND PLANT 69KV'	10		51 MIDW	COLBY 115KV	6.933622		-0.05808	18
WERE	HOLTON 115KV	19.8	0.007		SMOKEY HILLS 34KV	100		-0.05547	18
WERE	'LAWRENCE ENERGY CENTER 115KV' 'TECUMSEH ENERGY CENTER 115KV'	121.3015 143	0.007	42 WERE 05 WERE	'SMOKEY HILLS 34KV' 'SMOKEY HILLS 34KV'	100		-0.05537	18
WERE	TECUMSEH ENERGY CENTER 115KV	143		98 WERE	SMOKEY HILLS 34KV	100		-0.05574	18
WERE	LAWRENCE ENERGY CENTER 230KV	37.43277		67 WERE	SMOKEY HILLS 34KV	100		-0.05512	10
WERE	JEFFREY ENERGY CENTER 230KV	24		84 WERE	'SMOKEY HILLS 34KV'	100		-0.04795	21
WERE	JEFFREY ENERGY CENTER 345KV	42		64 WERE	'SMOKEY HILLS 34KV'	100		-0.04215	24
WEPL	'A. M. MULLERGREN GENERATOR 115KV'	63	-0.088	49 WEPL	'GRAY COUNTY WIND FARM 115KV'	36	-0.05606	-0.03243	31
WEPL	'A. M. MULLERGREN GENERATOR 115KV'	63		49 WEPL	'JUDSON LARGE 115KV'	34.12798	-0.05604	-0.03245	31
Maximum Decrement and Max	rimum Increment were determine from the Souce and Sink (	Opproving Delate in th		nodele where limi	ting facility was identified				

1.0

 Image: WEPL
 IA. M. MULLERGREN GENERATOR 115KV
 63
 -0.08849 [WEPL
 IJUDSON LARGE 115KV

 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

Reservation 1034589		0.
Description	Della f Assessed	
Season Flowgate Identified:	2007 Summer Shoulder	
Date Redispatch Needed:	6/1 - 10/1 Until EOC of Upgrade	
Flowgate:	57368573811568725687314207SH	
Line Outage:	EAST MCPHERSON - SUMMIT 230KV CKT 1	
Direction:	To->From	
Limiting Facility:	EXIDE JUNCTION - SUMMIT 115KV CKT 1	
Upgrade:	WICHITA - RENO CO 345KV	

eservation 1034589	Relief Amount 0.1		1						
1034590									
1034595	1.2	1.5 Maximum		Sink Control		Maximum			Redispatch
rce Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (M
RE RE	'BPU - CITY OF MCPHERSON 115KV' 'BPU - CITY OF MCPHERSON 115KV'	259		98 WERE	'SMOKEY HILLS 34KV' 'CHANUTE 69KV'	100	0.06272	-0.3467	
RE	BPU - CITY OF MCPHERSON 115KV BPU - CITY OF MCPHERSON 115KV	259 259		98 WERE 98 WERE	CHANUTE 69KV CITY OF AUGUSTA 69KV	46.617 26.1	0.0011	-0.28508 -0.2839	
RE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.283	98 WERE	CITY OF BURLINGTON 69KV	10.5	0.00218	-0.28616	j
RE	'BPU - CITY OF MCPHERSON 115KV'	259		98 WERE	'CITY OF ERIE 69KV'	19.965	0.0011	-0.28508	
RE	'BPU - CITY OF MCPHERSON 115KV' 'BPU - CITY OF MCPHERSON 115KV'	259		98 WERE 98 WERE	'CITY OF GIRARD 69KV' 'CITY OF IOLA 69KV'	2.989	0.00118	-0.28516	
RE	BPU - CITY OF MCPHERSON 115KV	259		98 WERE	CITY OF IOLA 69KV	6.189	-0.00103	-0.28295	
RE	'BPU - CITY OF MCPHERSON 115KV'	259		98 WERE	'CITY OF NEODESHA 69KV'	4.5	0.00072	-0.2847	
RE	BPU - CITY OF MCPHERSON 115KV BPU - CITY OF MCPHERSON 115KV	259 259		98 WERE	CITY OF WELLINGTON 69KV	39.5 39.90401	-0.00168	-0.2823	
RE RE	BPU - CITY OF MCPHERSON 115KV BPU - CITY OF MCPHERSON 115KV	259	-0.283	98 WERE 98 WERE	CITY OF WINFIELD 69KV' COFFEY COUNTY NO. 2 SHARPE 69KV'	39.90401	-0.0011 0.00218	-0.28288	
RE	'BPU - CITY OF MCPHERSON 115KV'	259		98 WERE	'EVANS ENERGY CENTER 138KV'	305	-0.00021	-0.28377	-
RE	'BPU - CITY OF MCPHERSON 115KV'	259		98 WERE	'GILL ENERGY CENTER 138KV'	155	-0.00293	-0.28105	
RE RE	BPU - CITY OF MCPHERSON 115KV BPU - CITY OF MCPHERSON 115KV	259 259	-0.283	98 WERE 98 WERE	'JEFFREY ENERGY CENTER 230KV' 'JEFFREY ENERGY CENTER 345KV'	470	0.01481 0.02061	-0.29879 -0.30459	
RE	'BPU - CITY OF MCPHERSON 115KV'	259		98 WERE	LAWRENCE ENERGY CENTER 115KV	940		-0.30459	
RE	'BPU - CITY OF MCPHERSON 115KV'	259		98 WERE	'LAWRENCE ENERGY CENTER 230KV'	229.1015	0.00764	-0.29162	
RE	'BPU - CITY OF MCPHERSON 115KV'	259		98 WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.00702	-0.291	
RE	'BPU - CITY OF MCPHERSON 115KV' 'HUTCHINSON ENERGY CENTER 115KV'	259 272.4277		98 WERE 37 WERE	'WACO 138KV' 'SMOKEY HILLS 34KV'	17.947	-0.00266 0.06272	-0.28132 -0.28509	1
RE	'HUTCHINSON ENERGY CENTER 69KV'	272.4277 67	-0.222	26 WERE	'SMOKEY HILLS 34KV'	100	0.06272	-0.28498	1
RE	'HUTCHINSON ENERGY CENTER 115KV'	272.4277	-0.222	37 WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01481	-0.23718	
RE	'HUTCHINSON ENERGY CENTER 115KV'	272.4277		37 WERE	JEFFREY ENERGY CENTER 345KV	940	0.02061	-0.24298	<u>+</u>
RE	'HUTCHINSON ENERGY CENTER 115KV' 'HUTCHINSON ENERGY CENTER 115KV'	272.4277 272.4277	-0.222	37 WERE 37 WERE	'LAWRENCE ENERGY CENTER 115KV' 'LAWRENCE ENERGY CENTER 230KV'	60 229.1015	0.00739 0.00764	-0.22976	
RE	'HUTCHINSON ENERGY CENTER 115KV'	272.4277	-0.222	37 WERE	TECUMSEH ENERGY CENTER 115KV	108	0.00702	-0.22939	
RE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.222	26 WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01481	-0.23707	
RE	HUTCHINSON ENERGY CENTER 69KV	67		26 WERE	JEFFREY ENERGY CENTER 345KV	940		-0.24287	
RE	'HUTCHINSON ENERGY CENTER 69KV' 'HUTCHINSON ENERGY CENTER 69KV'	67		26 WERE 26 WERE	'LAWRENCE ENERGY CENTER 115KV' 'LAWRENCE ENERGY CENTER 230KV'	60 229.1015		-0.22965	
RE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.222	26 WERE	'TECUMSEH ENERGY CENTER 115KV'	108	0.00702	-0.22928	5
RE	'HUTCHINSON ENERGY CENTER 115KV'	272.4277	-0.222	37 WERE	'CHANUTE 69KV'	46.617	0.0011	-0.22347	
RE	'HUTCHINSON ENERGY CENTER 115KV' 'HUTCHINSON ENERGY CENTER 115KV'	272.4277		37 WERE	CITY OF AUGUSTA 69KV	26.1	-0.00008	-0.22229	
RE	HUTCHINSON ENERGY CENTER 115KV	272.4277 272.4277		37 WERE 37 WERE	CITY OF BURLINGTON 69KV CITY OF ERIE 69KV	19.965	0.00218	-0.22455	
RE	'HUTCHINSON ENERGY CENTER 115KV'	272.4277	-0.222	37 WERE	'CITY OF GIRARD 69KV'	2.989	0.00118	-0.22355	,
RE	'HUTCHINSON ENERGY CENTER 115KV'	272.4277	-0.222	37 WERE	'CITY OF IOLA 69KV'	19.865	0.00133	-0.2237	
RE	HUTCHINSON ENERGY CENTER 115KV HUTCHINSON ENERGY CENTER 115KV	272.4277 272.4277		37 WERE 37 WERE	CITY OF MULVANE 69KV' CITY OF NEODESHA 69KV'	6.189	-0.00103 0.00072	-0.22134	
RE	'HUTCHINSON ENERGY CENTER 115KV'	272.4277		37 WERE	CITY OF WELLINGTON 69KV	39.5	-0.00168	-0.22069	
RE	'HUTCHINSON ENERGY CENTER 115KV'	272.4277		37 WERE	'CITY OF WINFIELD 69KV'	39.90401	-0.0011	-0.22127	
RE	'HUTCHINSON ENERGY CENTER 115KV'	272.4277	-0.222	37 WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.96	0.00218	-0.22455	
RE	'HUTCHINSON ENERGY CENTER 115KV' 'HUTCHINSON ENERGY CENTER 115KV'	272.4277 272.4277		37 WERE 37 WERE	'EVANS ENERGY CENTER 138KV' 'GILL ENERGY CENTER 138KV'	305	-0.00021	-0.22216	
RE	'HUTCHINSON ENERGY CENTER 115KV'	272.4277		37 WERE	'WACO 138KV'	17.947	-0.00266	-0.21971	
RE	'HUTCHINSON ENERGY CENTER 69KV'	67		26 WERE	'CHANUTE 69KV'	46.617	0.0011	-0.22336	
RE	'HUTCHINSON ENERGY CENTER 69KV' 'HUTCHINSON ENERGY CENTER 69KV'	67 67		26 WERE	'CITY OF AUGUSTA 69KV' 'CITY OF BURLINGTON 69KV'	26.1	-0.00008	-0.22218	
RE	HUTCHINSON ENERGY CENTER 69KV	67	-0.222	26 WERE 26 WERE	CITY OF BURLINGTON 69KV	10.5	0.00218	-0.22444	
RE	'HUTCHINSON ENERGY CENTER 69KV'	67		26 WERE	'CITY OF GIRARD 69KV'	2.989	0.00118	-0.22344	
RE	'HUTCHINSON ENERGY CENTER 69KV'	67		26 WERE	'CITY OF IOLA 69KV'	19.865	0.00133	-0.22359	-
RE RE	'HUTCHINSON ENERGY CENTER 69KV' 'HUTCHINSON ENERGY CENTER 69KV'	67 67	-0.222	26 WERE 26 WERE	CITY OF MULVANE 69KV' CITY OF NEODESHA 69KV'	6.189	-0.00103 0.00072	-0.22123 -0.22298	
RE	HUTCHINSON ENERGY CENTER 69KV	67		26 WERE	CITY OF WELLINGTON 69KV	39.5	-0.00168	-0.22256	
RE	'HUTCHINSON ENERGY CENTER 69KV'	67		26 WERE	'CITY OF WINFIELD 69KV'	39.90401	-0.0011	-0.22116	
RE	HUTCHINSON ENERGY CENTER 69KV	67		26 WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.96	0.00218	-0.22444	
RE RE	'HUTCHINSON ENERGY CENTER 69KV' 'HUTCHINSON ENERGY CENTER 69KV'	67		26 WERE 26 WERE	'EVANS ENERGY CENTER 138KV' 'GILL ENERGY CENTER 138KV'	305	-0.00021	-0.22205	
RE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.222	26 WERE	'WACO 138KV'	17.947	-0.00266	-0.2196	
RE	'ST JOHN 115KV'	2.9	-0.113	81 WERE	'SMOKEY HILLS 34KV'	100	0.06272	-0.17653	1
RE	'BPU - CITY OF MCPHERSON 115KV' 'NORTH WEST GREAT BEND 115KV'	259 12.24		98 WERE 65 WEPL	'ABILENE ENERGY CENTER 115KV' 'CLIFTON 115KV'	40 21.97577	-0.161	-0.12298	<del> </del>
PL RE	GILL ENERGY CENTER 138KV	17.99999		93 WERE	'SMOKEY HILLS 34KV'	100	0.06272	-0.06565	
RE	'CITY OF MULVANE 69KV'	9.601001	-0.001	03 WERE	'SMOKEY HILLS 34KV'	100	0.06272	-0.06375	
RE RE	'EVANS ENERGY CENTER 138KV' 'GETTY 69KV'	438		21 WERE	'SMOKEY HILLS 34KV' 'SMOKEY HILLS 34KV'	100		-0.06293	<u> </u>
RE	'GELL ENERGY CENTER 69KV'	35		11 WERE 23 WERE	'SMOKEY HILLS 34KV' 'SMOKEY HILLS 34KV'	100	0.06272	-0.06261	1
RE	'SOUTH SENECA 115KV'	15	0.000	03 WERE	'SMOKEY HILLS 34KV'	100	0.06272	-0.06269	
RE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.283	98 WERE	'HUTCHINSON ENERGY CENTER 115KV'	110.5723	-0.22237	-0.06161	1
RE RE	'CITY OF FREDONIA 69KV' 'CITY OF IOLA 69KV'	10.294 17.763	0.00	08 WERE 33 WERE	'SMOKEY HILLS 34KV' 'SMOKEY HILLS 34KV'	100	0.06272	-0.06192 -0.06139	1
RE	CITY OF IOLA 69KV	8.85		66 WERE	SMOKEY HILLS 34KV	100		-0.06139	1
RE	'NEOSHO ENERGY CENTER 138KV'	67	0.001	07 WERE	'SMOKEY HILLS 34KV'	100	0.06272	-0.06165	i
IRE	'HOLTON 115KV'	19.8	0.00	73 WERE	'SMOKEY HILLS 34KV'	100	0.06272	-0.05542	<u>.                                    </u>
RE	'LAWRENCE ENERGY CENTER 115KV' 'TECUMSEH ENERGY CENTER 115KV'	78 52.99999		39 WERE 02 WERE	'SMOKEY HILLS 34KV' 'SMOKEY HILLS 34KV'	100		-0.05533	+
RE	'TECUMSEH ENERGY CENTER 69KV'	52.99999		95 WERE	SMOKEY HILLS 34KV	100		-0.05577	1
RE	'LAWRENCE ENERGY CENTER 230KV'	39.8985	0.007	64 WERE	'SMOKEY HILLS 34KV'	100	0.06272	-0.05508	
RE	JEFFREY ENERGY CENTER 230KV	24		81 WERE	SMOKEY HILLS 34KV	100	0.06272	-0.04791	<u> </u>
RE	'JEFFREY ENERGY CENTER 345KV'	42	0.020	61 WERE	'SMOKEY HILLS 34KV'	100	0.06272	-0.04211	J

Upgrade:	WICHITA - RENO CO 345KV						
Limiting Facility:	NORTH AMERICAN PHILIPS - NORTH AMERICAN PH	LIPS JUNCTION (SO	UTH) 115KV CKT 1				
Direction:	From->To						
Line Outage:	EAST MCPHERSON - SUMMIT 230KV CKT 1						
Flowgate:	57372573741568725687312206WP						
Date Redispatch Needed:	12/1/06 - 4/1/07						
Season Flowgate Identified:	2006 Winter Peak						
		Aggregate Relief					
Reservation	Relief Amount	Amount					
1034589							
1034590	5.						
		Maximum	Sink Control		Maximum		
Source Control Area	Source	Increment(MW)	GSF Area	Sink	Decrement(MW)	GSF	Factor
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.5219 WERE	'CHANUTE 69KV'	35.344		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.5219 WERE	'CITY OF BURLINGTON 69KV'	5.4		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.5219 WERE	'CITY OF IOLA 69KV'	13.978		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.5219 WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.00594	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.5219 WERE	'JEFFREY ENERGY CENTER 230KV'	470		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.5219 WERE	'JEFFREY ENERGY CENTER 345KV'	940		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.5219 WERE	'LAWRENCE ENERGY CENTER 230KV'	181.4851	0.02275	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.5219 WERE	'TECUMSEH ENERGY CENTER 115KV'	48		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.5219 WERE	'CITY OF AUGUSTA 69KV'	18.8	0.00098	
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.5219 WERE	'CITY OF WELLINGTON 69KV'	29.148		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.5219 WERE	'EVANS ENERGY CENTER 138KV'	69.8855	0.00077	-0.52267
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.5219 WERE	'WACO 138KV'	17.953	-0.00475	-0.51715
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.42287 WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03511	-0.45798
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.42287 WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03654	4 -0.45941
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42268 WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.03511	-0.45779
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42268 WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03654	4 -0.45922
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.42287 WERE	'LAWRENCE ENERGY CENTER 230KV'	181.4851	0.02275	-0.44562
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.42287 WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.02622	-0.44909
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42268 WERE	'LAWRENCE ENERGY CENTER 230KV'	181.4851	0.02275	-0.44543
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42268 WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.02622	-0.4489
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.42287 WERE	'CHANUTE 69KV'	35.344	0.00312	
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.42287 WERE	'CITY OF AUGUSTA 69KV'	18.8	0.00098	
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.42287 WERE	'CITY OF IOLA 69KV'	13.978		
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.42287 WERE	'CITY OF WELLINGTON 69KV'	29.148	-0.0028	3 -0.42007
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.42287 WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.00594	
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.42287 WERE	'EVANS ENERGY CENTER 138KV'	69.8855		
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.42287 WERE	'WACO 138KV'	17.953	-0.00475	
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42268 WERE	'CHANUTE 69KV'	35.344	0.00312	
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42268 WERE	'CITY OF AUGUSTA 69KV'	18.8	0.00098	
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42268 WERE	'CITY OF IOLA 69KV'	13.978	0.00364	
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42268 WERE	'CITY OF WELLINGTON 69KV'	29.148		
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42268 WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.97	0.00594	
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42268 WERE	'EVANS ENERGY CENTER 138KV'	69.8855	0.000394	
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.42268 WERE	WACO 138KV	17.953	-0.00475	
WEPL	'A. M. MULLERGREN GENERATOR 115KV'	59.0015	-0.22211 WEPL	'GRAY COUNTY WIND FARM 115KV'	36		
WEPL	A. M. MULLERGREN GENERATOR 115KV	59.0015	-0.22211 WEPL	JUDSON LARGE 115KV	45.09819		
WERE	GILL ENERGY CENTER 138KV	218	-0.00537 WERE	JEFFREY ENERGY CENTER 345KV	45.09819		
WERE	'GILL ENERGY CENTER 138KV'	218	-0.00537 WERE	JEFFREY ENERGY CENTER 230KV	470		
WERE	GILL ENERGY CENTER 136KV	118	-0.00337 WERE	JEFFREY ENERGY CENTER 345KV	940		
		118			940		
VERE VERE	GILL ENERGY CENTER 69KV		-0.00382 WERE 0.00077 WERE	JEFFREY ENERGY CENTER 230KV	940		
WERE	'EVANS ENERGY CENTER 138KV' 'EVANS ENERGY CENTER 138KV'	723.1145	0.00077 WERE	JEFFREY ENERGY CENTER 345KV JEFFREY ENERGY CENTER 230KV	940		

Redispatch

Amount (MW)

182 198 206

VERE	'GILL ENERGY CENTER 69KV'	118	-0.00382 WERE	'JEFFREY ENERGY CENTER 230KV'	470			18
VERE	'EVANS ENERGY CENTER 138KV'	723.1145	0.00077 WERE	'JEFFREY ENERGY CENTER 345KV'	940			19
VERE	'EVANS ENERGY CENTER 138KV'	723.1145		'JEFFREY ENERGY CENTER 230KV'	470	0.03511	-0.03434	20
faximum Decrement and Max	imum Increment were determine from the Souce and Sink O	Operating Points in th	e study models where limit	ting facility was identified.				
actor = Source GSF - Sink GS	SF							
edispatch Amount = Relief Ar	mount / Factor							
Jpgrade:	WICHITA - RENO CO 345KV							
imiting Facility:	NORTH AMERICAN PHILIPS - NORTH AMERICAN PHIL	IPS JUNCTION (SOI	UTH) 115KV CKT 1					
Direction:	From->To							
ine Outage:	EAST MCPHERSON - SUMMIT 230KV CKT 1							
lowgate:	57372573741568725687312208WP							
	Starting 2008 12/1 - 4/1 Until EOC							
Date Redispatch Needed:								
Season Flowgate Identified:	2008 Winter Peak	Aggregate Relief						
	Della ( America)							
Reservation	Relief Amount	Amount						
1034589		17.7						
1034590		17.7						
1034595	10.5	17.7	1	1			<b>.</b>	1
		Maximum	Sink Control		Maximum			Redispatch
Source Control Area	Source		GSF Area	Sink	Decrement(MW)	GSF		Amount (MW)
VERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50467 WERE	'JEFFREY ENERGY CENTER 230KV'	470			3
VERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50467 WERE	'JEFFREY ENERGY CENTER 345KV'	940			
VERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50467 WERE	'SMOKEY HILLS 34KV'	100	0.03125	-0.53592	3
VERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50467 WERE	'LAWRENCE ENERGY CENTER 115KV'	16.69849	0.01833	-0.523	3
/ERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50467 WERE	'LAWRENCE ENERGY CENTER 230KV'	231.5672	0.01924	-0.52391	3
/ERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50467 WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.02227	-0.52694	
/ERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50467 WERE	'CITY OF AUGUSTA 69KV'	24.3			
VERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50467 WERE	CITY OF IOLA 69KV'	19,902			
VERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50467 WERE	'CITY OF WELLINGTON 69KV'	39.5			
VERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50467 WERE	'CITY OF WINFIELD 69KV'	15.81898			
VERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50467 WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.61			3
VERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50467 WERE	'EVANS ENERGY CENTER 138KV'	110			
VERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.50467 WERE	WACO 138KV	17.414			
VERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.39931 WERE	JEFFREY ENERGY CENTER 230KV	470			
VERE		383			940			4
	'HUTCHINSON ENERGY CENTER 115KV'		-0.39931 WERE	'JEFFREY ENERGY CENTER 345KV'				
VERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.39931 WERE	'SMOKEY HILLS 34KV'	100			
VERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39892 WERE	'JEFFREY ENERGY CENTER 230KV'	470			
VERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39892 WERE	'JEFFREY ENERGY CENTER 345KV'	940			
VERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39892 WERE	'SMOKEY HILLS 34KV'	100			
VERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.39931 WERE	'LAWRENCE ENERGY CENTER 115KV'	16.69849			
VERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.39931 WERE	'LAWRENCE ENERGY CENTER 230KV'	231.5672			4
VERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.39931 WERE	'TECUMSEH ENERGY CENTER 115KV'	48			
VERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39892 WERE	'LAWRENCE ENERGY CENTER 115KV'	16.69849			
VERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39892 WERE	'LAWRENCE ENERGY CENTER 230KV'	231.5672			
VERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39892 WERE	'TECUMSEH ENERGY CENTER 115KV'	48			4
VERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.39931 WERE	'CITY OF AUGUSTA 69KV'	24.3	0.0006		4
VERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.39931 WERE	'CITY OF WINFIELD 69KV'	15.81898			
VERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.39931 WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.61			
VERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.39931 WERE	'EVANS ENERGY CENTER 138KV'	110			
VERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39892 WERE	'CITY OF AUGUSTA 69KV'	24.3			
VERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39892 WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.61			
VERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39892 WERE	'EVANS ENERGY CENTER 138KV'	110			
VERE	HUTCHINSON ENERGY CENTER 115KV	383	-0.39931 WERE	CITY OF WELLINGTON 69KV	39.5			
VERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.39931 WERE	WACO 138KV	17.414			
VERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39892 WERE	CITY OF WELLINGTON 69KV	39.5			
VERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39892 WERE	'CITY OF WINFIELD 69KV'	15.81898			
VERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39892 WERE	'WACO 138KV'	17.414			
VERE	'GILL ENERGY CENTER 138KV'	218	-0.00485 WERE	'JEFFREY ENERGY CENTER 345KV'	940		-0.03595	49
UEDE	'GILL ENERGY CENTER 138KV'	218	-0.00485 WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.02984	-0.03469	5
VERE	'EVANS ENERGY CENTER 138KV'	837	0.00042 WERE	'JEFFREY ENERGY CENTER 345KV'	940			

ating Points in the study models where Maximum Decrement and Maximum Increme Factor = Source GSF - Sink GSF Redispatch Amount = Relief Amount / Factor ncrement were determine from the Souce and Sink Ope iting ility was i

Upgrade:	WICHITA - RENO CO 345KV		
Limiting Facility:	NORTH AMERICAN PHILIPS - NORTH AMERICAN PHIL	IPS JUNCTION (SO	UTH) 115KV CKT 1
Direction:	From->To		
Line Outage:	EAST MCPHERSON - SUMMIT 230KV CKT 1		
Flowgate:	57372573741568725687314207SH		
Date Redispatch Needed:	6/1 - 10/1 Until EOC of Upgrade		
Season Flowgate Identified:	2007 Summer Shoulder		
		Aggregate Relief	
Reservation	Relief Amount	Amount	
1034589	0.2	3.3	
1034590	0.5	3.3	

1034590	0.5								
1034595	2.6	3.3 Maximum		Sink Control		Maximum		-	Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		8 WERE	'ABILENE ENERGY CENTER 115KV'	40		-0.62196	5
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		WERE	'JEFFREY ENERGY CENTER 230KV'	470		-0.5347	6
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.5048	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.03112	-0.53592	6
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		WERE	'LAWRENCE ENERGY CENTER 115KV'	60		-0.52313	6
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		WERE	'LAWRENCE ENERGY CENTER 230KV'	229.1015		-0.52405	6
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		WERE	'SMOKEY HILLS 34KV'	100		-0.53595	6
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		WERE	TECUMSEH ENERGY CENTER 115KV	108		-0.52709	6
WERE	HUTCHINSON ENERGY CENTER 115KV HUTCHINSON ENERGY CENTER 69KV	272.4277	-0.39946		ABILENE ENERGY CENTER 115KV	40		-0.51662	6
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		WERE	'ABILENE ENERGY CENTER 115KV' 'CHANUTE 69KV'	46.617		-0.51643	5
WERE	BPU - CITY OF MCPHERSON 115KV	259		WERE	CITY OF AUGUSTA 69KV	40.017		-0.50734	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		WERE	CITY OF BURLINGTON 69KV	10.5		-0.50969	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		WERE	CITY OF ERIE 69KV	19.965	0.00254	-0.50734	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		WERE	'CITY OF GIRARD 69KV'	2.989		-0.50745	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		WERE	'CITY OF IOLA 69KV'	19.865	0.00298	-0.50778	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		WERE	'CITY OF MULVANE 69KV'	6.189		-0.50363	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		WERE	'CITY OF NEODESHA 69KV'	4.5		-0.50661	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		WERE	'CITY OF WELLINGTON 69KV'	39.5		-0.50225	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		WERE	CITY OF WINFIELD 69KV	39.90401	-0.0015	-0.5033	7
WERE	BPU - CITY OF MCPHERSON 115KV	259		WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.96		-0.50969	7
WERE	BPU - CITY OF MCPHERSON 115KV BPU - CITY OF MCPHERSON 115KV	259		WERE WERE	'EVANS ENERGY CENTER 138KV' 'GILL ENERGY CENTER 138KV'	305		-0.50526	7
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		WERE	WACO 138KV	17.947		-0.50001	7
WERE	'HUTCHINSON ENERGY CENTER 115KV'	272.4277	-0.39946		CHANUTE 69KV	46.617		-0.402	/
WERE	'HUTCHINSON ENERGY CENTER 115KV'	272.4277	-0.39946		'CITY OF AUGUSTA 69KV'	26.1	0.000254	-0.40011	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	272.4277	-0.39946		'CITY OF BURLINGTON 69KV'	10.5		-0.40435	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	272.4277	-0.39946		'CITY OF ERIE 69KV'	19.965		-0.402	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	272.4277	-0.39946	WERE	'CITY OF GIRARD 69KV'	2.989	0.00265	-0.40211	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	272.4277	-0.39946		'CITY OF IOLA 69KV'	19.865		-0.40244	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	272.4277	-0.39946		'CITY OF MULVANE 69KV'	6.189		-0.39829	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	272.4277	-0.39946		'CITY OF NEODESHA 69KV'	4.5		-0.40127	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	272.4277	-0.39946		CITY OF WELLINGTON 69KV	39.5		-0.39691	8
WERE	HUTCHINSON ENERGY CENTER 115KV HUTCHINSON ENERGY CENTER 115KV	272.4277 272.4277	-0.39946		CITY OF WINFIELD 69KV	39.90401	-0.0015	-0.39796	8
WERE	HUTCHINSON ENERGY CENTER 115KV	272.4277	-0.39946		'COFFEY COUNTY NO. 2 SHARPE 69KV' 'EVANS ENERGY CENTER 138KV'	305		-0.40435	8
WERE	HUTCHINSON ENERGY CENTER 115KV	272.4277	-0.39946		'GILL ENERGY CENTER 138KV'	155		-0.39992	0
WERE	'HUTCHINSON ENERGY CENTER 115KV'	272.4277	-0.39946		JEFFREY ENERGY CENTER 230KV	470		-0.42936	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	272.4277	-0.39946		JEFFREY ENERGY CENTER 345KV	940		-0.43058	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	272.4277	-0.39946		'LAWRENCE ENERGY CENTER 115KV'	60	0.01833	-0.41779	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	272.4277	-0.39946	WERE	'LAWRENCE ENERGY CENTER 230KV'	229.1015	0.01925	-0.41871	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	272.4277	-0.39946	WERE	'SMOKEY HILLS 34KV'	100		-0.43061	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	272.4277	-0.39946		'TECUMSEH ENERGY CENTER 115KV'	108		-0.42175	8
WERE	'HUTCHINSON ENERGY CENTER 115KV'	272.4277	-0.39946		'WACO 138KV'	17.947		-0.3952	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67			CHANUTE 69KV	46.617		-0.40181	8
WERE	'HUTCHINSON ENERGY CENTER 69KV' 'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39927		CITY OF AUGUSTA 69KV	26.1	0.00065	-0.39992 -0.40416	8
WERE	HUTCHINSON ENERGY CENTER 69KV	67 67	-0.39927		'CITY OF BURLINGTON 69KV' 'CITY OF ERIE 69KV'	10.5		-0.40416	8
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39927		CITY OF GIRARD 69KV	2.989		-0.40192	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39927		CITY OF IOLA 69KV	19.865	0.00203	-0.40192	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39927		'CITY OF MULVANE 69KV'	6.189		-0.3981	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39927		'CITY OF NEODESHA 69KV'	4.5		-0.40108	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39927		'CITY OF WELLINGTON 69KV'	39.5	-0.00255	-0.39672	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39927		'CITY OF WINFIELD 69KV'	39.90401	-0.0015	-0.39777	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39927		COFFEY COUNTY NO. 2 SHARPE 69KV	19.96		-0.40416	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39927		'EVANS ENERGY CENTER 138KV'	305		-0.39973	8
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39927		'GILL ENERGY CENTER 138KV' 'JEFFREY ENERGY CENTER 230KV'	155		-0.39448	8
WERE	HUTCHINSON ENERGY CENTER 69KV HUTCHINSON ENERGY CENTER 69KV	67	-0.39927		JEFFREY ENERGY CENTER 230KV JEFFREY ENERGY CENTER 345KV	470		-0.42917 -0.43039	8
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39927		LAWRENCE ENERGY CENTER 115KV	940		-0.43039	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67			'LAWRENCE ENERGY CENTER 230KV'	229.1015		-0.41852	8
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.39927		'SMOKEY HILLS 34KV'	229.1013		-0.43042	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39927		'TECUMSEH ENERGY CENTER 115KV'	108		-0.42156	8
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.39927		'WACO 138KV'	17.947		-0.39501	8
WEPL	'NORTH WEST GREAT BEND 115KV'	12.24	-0.17574	WEPL	'CLIFTON 115KV'	21.97577	-0.00539	-0.17035	19
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		WERE	'HUTCHINSON ENERGY CENTER 115KV'	110.5723	-0.39946	-0.10534	31
WERE	'GILL ENERGY CENTER 69KV'	118	-0.00345		'JEFFREY ENERGY CENTER 345KV'	940		-0.03457	96
WERE	'GILL ENERGY CENTER 69KV'	118	-0.00345		'SMOKEY HILLS 34KV'	100		-0.0346	96
WERE	'GILL ENERGY CENTER 69KV'	118			JEFFREY ENERGY CENTER 230KV	470		-0.03335	99
WERE	'EVANS ENERGY CENTER 138KV'	438 438	0.00046		JEFFREY ENERGY CENTER 345KV	940		-0.03066	108
WERE	'EVANS ENERGY CENTER 138KV'	438	0.00046	WERE	'SMOKEY HILLS 34KV'	100	0.03115	-0.03069	108

 WERE
 EVANS ENERGY CENTER 138KV'
 438
 0.00046
 WERE
 SMOKEY HILLS 34KV'

 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
 Sink GSF

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

Upgrade:	WICHITA - RENO CO 345KV								
imiting Facility:	NORTH AMERICAN PHILIPS JUNCTION (SOUTH) - WE	EST MCPHERSON 1	15KV CKT 1						
Direction:	From->To								
Line Outage:	EAST MCPHERSON - SUMMIT 230KV CKT 1								
Flowgate:	57374574381568725687312206WP								
Date Redispatch Needed:	12/1/06 - 4/1/07								
Season Flowgate Identified:	2006 Winter Peak	Assessments Dellaf	T						
Reservation	Relief Amount	Aggregate Relief Amount							
103458									
103459	90 2								
		Maximum		Sink Control		Maximum			Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'CHANUTE 69KV'	35.344	0.00145		1
WERE	BPU - CITY OF MCPHERSON 115KV	259		WERE	CITY OF BURLINGTON 69KV	5.4			
WERE	'BPU - CITY OF MCPHERSON 115KV'	259		WERE	'CITY OF IOLA 69KV'	13.978	0.00169	-0.24439	
WERE	BPU - CITY OF MCPHERSON 115KV	259		WERE	COFFEY COUNTY NO. 2 SHARPE 69KV	19.97	0.00276	-0.24546	
WERE	BPU - CITY OF MCPHERSON 115KV	259		WERE	JEFFREY ENERGY CENTER 230KV	470	0.01633	-0.25903	1
WERE	BPU - CITY OF MCPHERSON 115KV	259		WERE	JEFFREY ENERGY CENTER 345KV	940	0.01699		
WERE	BPU - CITY OF MCPHERSON 115KV	259		WERE	LAWRENCE ENERGY CENTER 230KV	181.4851	0.01058	-0.25328	
WERE	'BPU - CITY OF MCPHERSON 115KV' 'BPU - CITY OF MCPHERSON 115KV'	259		WERE	'TECUMSEH ENERGY CENTER 115KV' 'CITY OF AUGUSTA 69KV'	48		-0.25489 -0.24316	
WERE	BPU - CITY OF MCPHERSON 115KV	259		WERE	CITY OF AUGUSTA 69KV	29.148		-0.24316	
WERE	BPU - CITY OF MCPHERSON 115KV	259		WERE	'EVANS ENERGY CENTER 138KV'	69.8855	0.00036	-0.2414	
WERE	BPU - CITY OF MCPHERSON 115KV	259		WERE	WACO 138KV	17.953	-0.00221	-0.24306	
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383			JEFFREY ENERGY CENTER 230KV	470		-0.24049	
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383			JEFFREY ENERGY CENTER 345KV	940	0.01699	-0.21290	1
WERE	HUTCHINSON ENERGY CENTER 69KV	67			JEFFREY ENERGY CENTER 230KV	470		-0.21289	
WERE	HUTCHINSON ENERGY CENTER 69KV	67			JEFFREY ENERGY CENTER 345KV	940		-0.21205	
WERE	HUTCHINSON ENERGY CENTER 115KV	383			'LAWRENCE ENERGY CENTER 230KV'	181.4851	0.01058		
WERE	HUTCHINSON ENERGY CENTER 115KV	383			TECUMSEH ENERGY CENTER 115KV	48			1
WERE	HUTCHINSON ENERGY CENTER 69KV	67			'LAWRENCE ENERGY CENTER 230KV'	181.4851	0.01058	-0.20714	
WERE	HUTCHINSON ENERGY CENTER 69KV	67			TECUMSEH ENERGY CENTER 115KV	48			
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383			CHANUTE 69KV	35.344	0.00145	-0.1981	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.19665	WERE	'CITY OF AUGUSTA 69KV'	18.8	0.00046	-0.19711	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.19665	WERE	'CITY OF IOLA 69KV'	13.978	0.00169	-0.19834	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.19665	WERE	'CITY OF WELLINGTON 69KV'	29.148	-0.0013	-0.19535	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.19665	WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.00276	-0.19941	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.19665	WERE	'EVANS ENERGY CENTER 138KV'	69.8855	0.00036	-0.19701	1
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.19665	WERE	'WACO 138KV'	17.953	-0.00221	-0.19444	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67			'CHANUTE 69KV'	35.344	0.00145	-0.19801	1
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67			'CITY OF AUGUSTA 69KV'	18.8		-0.19702	
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67			'CITY OF IOLA 69KV'	13.978	0.00169	-0.19825	
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67			'CITY OF WELLINGTON 69KV'	29.148	-0.0013	-0.19526	
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67			'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97	0.00276	-0.19932	
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67			'EVANS ENERGY CENTER 138KV'	69.8855	0.00036	-0.19692	
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67			'WACO 138KV'	17.953	-0.00221	-0.19435	
WEPL	'A. M. MULLERGREN GENERATOR 115KV'	59.0015			'GRAY COUNTY WIND FARM 115KV'	36	-0.06333	-0.03996	
WEPL	'A. M. MULLERGREN GENERATOR 115KV' aximum Increment were determine from the Souce and Sink	59.0015	-0.10329	WEPL	'JUDSON LARGE 115KV'	45.09819	-0.06326	-0.04003	8

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

Upgrade:	WICHITA - RENO CO 345KV									
Limiting Facility:	NORTH AMERICAN PHILIPS JUNCTION (SOUTH)	- WE	ST MCPHERSON 1	15KV CKT	1					
Direction:	From->To									
Line Outage:	EAST MCPHERSON - SUMMIT 230KV CKT 1									
Flowgate:	57374574381568725687312207FA									
Date Redispatch Needed:	Starting 2007 10/1 - 12/1 Until EOC of Upgrade									
Season Flowgate Identified:	2007 Fall Peak									
Season Flowgate identified.	2007 Fall Feak		Aggregate Relief	1						
Reservation	Relief Amount		Aggregate Relief							
1034589		0.3								
1034589		0.3	3.8							
1034595		2.8								
1034595		2.0	3.0 Maximum		Sink Control		Maximum	1	1	Redispatch
Source Control Area	Source		Increment(MW)	GSF	Area	Sink		GSF	Factor	Amount (MW)
WERE	BPU - CITY OF MCPHERSON 115KV		259	-0.23476		JEFFREY ENERGY CENTER 230KV	470			
WERE	BPU - CITY OF MCPHERSON 115KV		259	-0.23476		JEFFREY ENERGY CENTER 345KV	940			
				-0.23476						
WERE	'BPU - CITY OF MCPHERSON 115KV' 'BPU - CITY OF MCPHERSON 115KV'		259	-0.23476		'SMOKEY HILLS 34KV' 'TECUMSEH ENERGY CENTER 115KV'	100	0.01447		
			259				108	0.01035		
WERE	'HUTCHINSON ENERGY CENTER 115KV'		318.8369			'JEFFREY ENERGY CENTER 230KV'	470			
WERE	'HUTCHINSON ENERGY CENTER 115KV'		318.8369	-0.18577		'JEFFREY ENERGY CENTER 345KV'	940			
WERE	'HUTCHINSON ENERGY CENTER 115KV'		318.8369			'SMOKEY HILLS 34KV'	100	0.01447		
WERE	'HUTCHINSON ENERGY CENTER 69KV'		67	-0.18568		'JEFFREY ENERGY CENTER 230KV'	470			
WERE	'HUTCHINSON ENERGY CENTER 69KV'		67	-0.18568		'JEFFREY ENERGY CENTER 345KV'	940			
WERE	'HUTCHINSON ENERGY CENTER 69KV'		67	-0.18568		'SMOKEY HILLS 34KV'	100	0.01447		
WERE	'HUTCHINSON ENERGY CENTER 115KV'		318.8369			'TECUMSEH ENERGY CENTER 115KV'	108	0.01035		
WERE	'HUTCHINSON ENERGY CENTER 69KV'		67	-0.18568		'TECUMSEH ENERGY CENTER 115KV'	108	0.01035		
WERE	'BPU - CITY OF MCPHERSON 115KV'		259			'HUTCHINSON ENERGY CENTER 115KV'	64.1631	-0.18577		
WEPL	'A. M. MULLERGREN GENERATOR 115KV'		62.31866	-0.08174	4 WEPL	'JUDSON LARGE 115KV'	45.334	-0.05142	-0.03032	127

 Image: WEPL
 IA. M. MULLERGREN GENERATOR
 115KV'
 62.31866
 -0.08174
 WEPL
 JUDSON LARGE
 115K

 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
 Sink GSF

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

103489         0.4         0.6           103485         0.6         0.6           103485         Source         Monima         Reing           103485         Source         Monima         Reing           103485         Source         Monima         Reing           103485         Source         Monima         Reing           103485         Source         Control         Control           103485         Source         Control         Control         Control           103485         Source         Control         Control         Control         Control           103485         Source         Control         Control <t< th=""><th>imiting Facility: irection:</th><th>NORTH AMERICAN PHILIPS JUNCTION (SOUTH) - WE From-&gt;To</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	imiting Facility: irection:	NORTH AMERICAN PHILIPS JUNCTION (SOUTH) - WE From->To								
en Angel Bodge 2007 EUROPE BOD										
Beach Free         Tory Summer Shoulde         Aggregate Real           1934480         0										
Jagesgin Pair         Aggesgin Pair           1103480         0.0           1003480         0.0           1003480         0.0           1003480         0.0           1003480         0.0           1003480         0.0           1003480         0.0           1003480         0.0           1003480         0.0           1003480         0.0           1003480         0.0           1003480         0.0           1003480         0.0           1003480         0.0           1003480         0.0           1003480         0.0           1003480         0.0           1003480         0.0           1003480         0.0           100440         0.0           100440         0.0           100440         0.0           100440         0.0           10141         0.0           10141         0.0           10141         0.0           10141         0.0           10141         0.0           10141         0.0           10141         0.0         0.0										
Ideal Answer         Answer           103469         0.4         0.0           103469         0.0         0.0           0020         0.0         0.0           0020         0.0         0.0         0.0           0020         0.0	eason Flowgate Identified:	2007 Summer Shoulder	A	1						
104489         0.0         0.0         0.0           1024485         0.0         0.	teses ation	Deliaf Amount								
103480         0.0         0.0           10950         4.7         0				-						
1934665         Contract         Statut         Nature         Statut         Nature         Natu										
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$										
Darde Control Area         Source         Incoment(UW)         GSF         Mea.         Sink         Decement(UW)         GSF         Factor         Anol           ERE         BPU_CITY OF MCHRESON 1150V         226 32471 WEEE         ABLEAE ENROV CENTER 1150V         401 0.0138         -22485           ERE         BPU_CITY OF MCHRESON 1150V         226 32471 WEEE         ABLEAE ENROV CENTER 1150V         401 0.0138         -22485           ERE         BPU_CITY OF MCHRESON 1150V         226 32475 WEEE         SNOCKY HLLS AND         461 0.0114         -22485           ERE         BPU_CITY OF MCHRESON 1150V         226 32475 WEEE         CITY OF EURINET Conflict         466 0.0118         -22385           ERE         BPU_CITY OF MCHRESON 1150V         226 32475 WEEE         CITY OF EURINET Conflict         460 0.0028         -22385           ERE         BPU_CITY OF MCHRESON 1150V         226 32475 WEEE         CITY OF EURINET CONFLICT         460 0.0028         -22385           ERE         BPU_CITY OF MCHRESON 1150V         226 32475 WEEE         CITY OF EURINET CONFLICT         460 0.0028         -22385           ERE         BPU_CITY OF MCHRESON 1150V         226 32475 WEEE         CITY OF EURINET CONFLICT         460 0.0028         -22385           ERE         BPU_CITY OF MCHRESON 1150V         226 32475 WEEE					Sink Control		Maximum			Redispatch
VERE         19P J. CITY OF MOPHERSON 1186/Y         299         2.2475         VERE         LEFTREY LENERGY CENTRE 230K/Y         410         0.0144         0.24465           BEPJ. CITY OF MOPHERSON 1186/Y         299         0.2475         WERE         LEFTREY LENERGY CENTRE 230K/Y         840         0.0144         0.24230           WERE         BPJ. CITY OF MOPHERSON 1186/Y         299         0.2475         WERE         CITY OF SUBMERSON 1186/Y         0.0223         0.22370           WERE         BPJ. CITY OF MOPHERSON 1186/Y         299         0.2475         WERE         CITY OF CITY OF MOPHERSON 1186/Y         199.6         0.00118         0.23283           VERE         BPJ. CITY OF MOPHERSON 1186/Y         299         0.2475         WERE         CITY OF CITY OF CITY OF MOPHERSON 1186/Y         199.6         0.00118         0.23283           VERE         BPJ. CITY OF MOPHERSON 1186/Y         299         0.2475         WERE         CITY OF CITY OF MOPHERSON 1186/Y         190.6         0.0038         0.23283           VERE         BPJ. CITY OF MOPHERSON 1186/Y         259         0.2475         WERE         CITY OF AUDRERSON 1186/Y         2.260.0         0.2425         0.2425           VERE         BPJ. CITY OF MOPHERSON 1186/Y         259         0.2475         WERE         CITY	ource Control Area			GSF	Area		Decrement(MW)	GSF		Amount (MW
EFEE         BPU - CITY OF MOMERSON 118V/         259         0.2475 (NEE         DEFERCT TRE. 346V/         961         0.01447         0.24822           EFEE         BPU - CITY OF MOMERSON 118V/         259         0.2473 (NEEE         SMORT MILE SAV/         0.01118         0.24833           EFEE         BPU - CITY OF MOMERSON 118V/         259         0.2473 (NEEE         CITY OF EXPENSION         0.00118         0.24833           EFEE         BPU - CITY OF MOMERSON 118V/         259         0.2473 (NEEE         CITY OF EXPENSION         1.001118         0.00118         0.24833           EFEE         BPU - CITY OF MOMERSON 118V/         259         0.2475 (NEEE         CITY OF EXPENSION         1.001118         0.00223         0.02235           EFEE         BPU - CITY OF MOMERSION 118V/         259         0.2475 (NEEE         CITY OF EXPENSION         1.00035         0.24235           EFEE         BPU - CITY OF MOMERSION 118V/         259         0.2475 (NEEE         CITY OF AUGUSTA 68W/         2.861 (0.0032         0.24235           EFEE         BPU - CITY OF MOMERSION 118V/         2.59         0.2475 (NEEE         CITY OF AUGUSTA 68W/         2.861 (0.0032         0.24235           EFEE         BPU - CITY OF MOMERSION 118V/         2.59         0.2475 (NEEE         CITY OF AUGUSTA 68W/										
EFEE         BPJ - CITY OF MODERSON 1156V         256         0.23475         VERE         CHANCE GRAV         100         0.01448         0.24823           EFEE         BPJ - CITY OF MODERSON 1156V         256         0.23475         VERE         CHANCE GRAV         4061         0.0116         0.23535           EFEE         BPJ - CITY OF MODERSON 1156V         256         0.23475         VERE         CITY OF GRAVE         0.0000         0.23475           EFEE         BPJ - CITY OF MODERSON 1156V         259         0.23475         VERE         CITY OF GRAVE         0.0000         0.23475           EFEE         BPJ - CITY OF MODERSON 1156V         259         0.23475         VERE         CITY OF MODERSON 1156V         260         0.23475           EFEE         BPJ - CITY OF MODERSON 1156V         259         0.23475         VERE         TRUMENCE CENERGY CENTER 230KV         28.000         0.00025         0.23475           EFEE         BPJ - CITY OF MODERSON 1156V         259         0.23475         VERE         TRUMENCE CENERGY CENTER 230KV         28.000         0.00022         0.23475           EFEE         BPJ - CITY OF MODERSON 1156V         259         0.23475         VERE         TRUMENCE DERV         28.000         0.00047         0.23450         VERE										
EFEE         BPJ-CITY OF KOPHERSON 115KV         236         0.23475         WEEE         CITY OF BURNGTON 69KV         46.617         0.00116         0.23283           EFEE         BPJ-CITY OF KOPHERSON 115KV         236         0.23475         WEEE         CITY OF BURNGTON 69KV         15.66         0.00116         0.23283           EFEE         BPJ-CITY OF KOPHERSON 115KV         236         0.23475         WEEE         CITY OF LOR 69KV         15.66         0.0015         0.23814           EFEE         BPJ-CITY OF KOPHERSON 115KV         236         0.23475         WEEE         CITY OF KOPHERSON 115KV         266         0.23475         WEEE         VAMPEXCE ENERGY CENTER 115KV         15.60         0.00055         -0.24323           EFEE         BPJ-CITY OF KOPHERSON 115KV         226         0.23475         WEEE         LAWPEXCE ENERGY CENTER 115KV         268         0.02355           EFEE         BPJ-CITY OF KOPHERSON 115KV         226         0.23475         WEEE         CITY OF KURSTA         386         0.00137         0.23557           EFEE         BPJ-CITY OF KOPHERSON 115KV         226         0.23475         WEEE         CITY OF KURSTA         386         0.00123         0.23352           EFEE         BPJ-CITY OF KOPHERSON 115KV         226 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>										
BPU-CITY OF MCPHERSON 115KV         256         0.23475         WERE         CITY OF BURNATON 696V         1105         0.00228         0.23730           VERE         BPU-CITY OF MCPHERSON 115KV         259         0.23475         WERE         CITY OF REBRY         19865         0.00118         0.23375           VERE         BPU-CITY OF MCPHERSON 115KV         259         0.23475         WERE         CONFY CONTY OF SUPPERSON 115KV         26.00128         0.23475         WERE         CONTY OF SUPPERSON 115KV         2.000178         0.23475         WERE         CONTY OF SUPPERSON 115KV         2.000178         0.23475         WERE         TOUNESCE ENERGY CENTER 115KV         0.00088         0.23475           VERE         BPU-CITY OF MCPHERSON 115KV         2.294         0.23475         WERE         CITY OF REWERCY         10.0007         0.23605         0.23475         WERE         CITY OF MCPV         3.94001         0.0007         0.23405           VERE         BPU-CITY OF MCPHERSON 115KV         2.294         0.23475         WERE         CITY OF WARV         3.94001         0.0007         0.23405           VERE         BPU-CITY OF MCPHERSON 115KV         2.23475         WERE         CITY OF WARVELSON WARV         3.94001         0.0007         0.23405         WERE         CITY OF MCPHERSON 115										
IERE         BPU_CITY OF MOPERESON 118/V         2281         0.2373 WERE         CITY OF ENE BAV         19.986         0.00118         0.23831           ERE         BPU_CITY OF MOPERESON 118/V         228         0.2373 WERE         CITY OF END FEBSON         19.986         0.0019         0.23814           ERE         BPU_CITY OF MOPERESON 118/V         228         0.2373 WERE         CITY OF END FEBSON         19.986         0.0028         0.2373           ERE         BPU_CITY OF MOPERESON 118/V         228         0.2373 WERE         CITY OF END FEBSON         19.90         0.0028         0.2373           ERE         BPU_CITY OF MOPERESON 118/V         229         0.2375 WERE         CITY OF MOPERESON 118/V         281         0.2375           ERE         BPU_CITY OF MOPERESON 118/V         229         0.2377 WERE         CITY OF WELLISTON 98/V         38.0         0.0018         0.2385           ERE         BPU_CITY OF MOPERESON 118/V         229         0.2377 WERE         CITY OF WELLISTON 98/V         39.0         0.0002         0.2326           ERE         BPU_CITY OF MOPERESON 118/V         229         0.2377         WERE         WIRCINSON NERGY CENTER 118/V         23.0018         0.00021         0.2326           ERE         BPU_CITY OF MOPERESON 118/V         2										
WERE         BPU_CITY OF MOPHERSON 115KV         225         0.228716         CITY OF IOLA 58V/F         1986         0.00139         0.22814           WERE         BPU_CITY OF MOPHERSON 115KV         229         0.22875         WERE         CORFECCUNT NO SHAPE GRV         199         0.00228         0.22373           WERE         BPU_CITY OF MOPHERSON 115KV         229         0.22475         WERE         LWWERKE ELERGY CENTER 115KV         0.00053         0.42428           WERE         BPU_CITY OF MOPHERSON 115KV         229         0.22475         WERE         LWWERKE ELERGY CENTER 115KV         281         0.0003         0.42428           WERE         BPU_CITY OF MOPHERSON 115KV         229         0.22475         WERE         CITY OF MOPHERSON 115KV         282         0.22475         WERE         CITY OF MOPHERSON 115KV         282         0.22475         WERE         CITY OF MOPHERSON 115KV         289         0.22475         WERE         CITY OF MOPHERSON 115KV         289         0.22475         WERE         CUTY OF MOPHERSON 115KV         280         0.22475         WERE										
EPE         TOT OF CUTY OF MOMPHERSON 115KV         229         -0.23475 [WERE         COFFEY COUNTY NO.2 SHARPE GIVKV         119.96         0.00283         -0.23703           EFRE         BPU- CITY OF MOMPHERSON 115KV         228         -0.23475 [WERE         LAWRENCE ENERGY CENTER 115KV         286         -0.23475 [WERE         TENRIC ENERGY CENTER 115KV         208         -0.23475 [WERE         TENRIC ENERGY CENTER 135KV         281         0.0003         -0.23451           EFRE         BPU- CITY OF MOMPHERSON 115KV         229         -0.23475 [WERE         CITY OF MOMPHERSON 115KV         299         -0.23475 [WERE         EVANS ENERGY CENTER 138KV         3950         0.00021         -0.23451           EFRE         BPU- CITY OF MOMPHERSON 115KV         229         -0.23475 [WERE         EVANS ENERGY CENTER 138KV         3950         0.00022         -0.23451           EFRE         BPU- CITY OF MOMPHERSON 115KV         229         -0.23475 [WERE         CENTER 138KV         1150         0.0022         -0.23451           EFRE         BPU- CITY OF MOMPHERSON 115KV         223         23.2375         WERE         CENTER 138KV										
UERE         'BPU - CITY OF MCPHERSON 115KV'         228         0.2347         WERE         LAWRENCE ENERGY CENTER 136KV         228.00.00885         0.2437           VERE         'BPU - CITY OF MCPHERSON 115KV'         229         0.2347         WERE         LAWRENCE ENERGY CENTER 136KV         108         0.00885         0.2437           VERE         'BPU - CITY OF MCPHERSON 115KV'         229         0.2247         WERE         'TICY OF MCPHERSON 115KV'         281         0.2247           VERE         'BPU - CITY OF MCPHERSON 115KV'         229         0.2247         WERE         'TICY OF MCPHERSON 115KV'         38.0.400         3										
WERE         'PU-CITY OF MCPHERSON 115W'         229         0.22475         WERE         'LAWRENCE ENREGY CENTER 230K'         228.008         0.00895         0.24572           VERE         'BPU-CITY OF MCPHERSON 115KY'         229         0.23475         WERE         'CITY OF MCPHERSON 115KY'         228         0.23475         WERE         'CITY OF MCPHERSON 115KY'         228         0.23475         WERE         'CITY OF MCPHERSON 115KY'         229         0.23475         WERE         'CITY OF MCPHERSON 115KY'         223475         WERE         CITY OF MCPHERSON 115KY'         223475         WERE         VERE         VERE         VERE         VERE         VERE         VERE         VERE         <				-0.23475	WERE					
EFEE         BPU_CITY OF MCPHERSON 115KV         2260         0.23475         WERE         CITY OF AUGUSTA 65KV         28.1         0.0002         0.23605           VERE         BPU_CITY OF MCPHERSON 115KV         226         0.23475         WERE         CITY OF WINFIELD 65KV         39.9 40.0116         0.23367           VERE         BPU_CITY OF MCPHERSON 115KV         226         0.23475         WERE         CITY OF WINFIELD 65KV         39.9 40.0116         0.23367           VERE         BPU_CITY OF MCPHERSON 115KV         226         0.23475         WERE         CITY OF WINFIELD 65KV         115.6         0.0022         0.23487           VERE         BPU_CITY OF MCPHERSON 115KV         2256         0.23475         WERE         CITY OF MCPHERSON 115KV         10.0138         0.1038         0.1086         0.0138         0.1086         0.0138         0.1086         0.0138         0.1086         0.0138         0.1046         0.0024         0.0138         0.10446         0.0024         0.0144         0.0024         0.0144         0.0024         0.0144         0.0024         0.0144         0.0024         0.0144         0.0024         0.0144         0.0024         0.0144         0.0024         0.0144         0.0024         0.0044         0.0024         0.0144         0.0	VERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.23475	WERE	'LAWRENCE ENERGY CENTER 230KV'		0.00895	-0.2437	
BPU-CITY OF MCPHERSON 115KV         2269         0.23475         WERE         CITY OF WELLINGTON 096V/         39.6         0.00116         0.23387           VERE         BPU-CITY OF MCPHERSON 115KV         226         0.23475         WERE         CITY OF MICHENSON 115KV         30.6         0.00027         0.23405           VERE         BPU-CITY OF MCPHERSON 115KV         226         0.23475         WERE         CITY OF MICHENSON 115KV         30.6         0.00027         0.23407           VERE         BPU-CITY OF MCPHERSON 115KV         226         0.23475         WERE         GILL ENERGY CENTER 135KV         170.47         0.0018         0.32387           VERE         HUTCHINSON ENERGY CENTER 115KV         272.2761         0.18576         WERE         JEFREY ENERGY CENTER 35KV         400         0.01447         0.20031           VERE         HUTCHINSON ENERGY CENTER 115KV         272.2761         0.18576         WERE         JEFREY ENERGY CENTER 35KV         400         0.0144         0.20021           VERE         HUTCHINSON ENERGY CENTER 35KV         67         0.1857         WERE         JEFREY ENERGY CENTER 35KV         400         0.0144         0.20014           VERE         HUTCHINSON ENERGY CENTER 35KV         67         1.8567         WERE         JEFREY ENERGY CENTER	VERE		259							
BPU- CITY OF MCPHERSON 115KV         256         0-23475         WERE         CITY OF MCPHERSON 115KV         259         0-23475           WERE         BPU- CITY OF MCPHERSON 115KV         259         0-23475         WERE         GUIL ENERGY CENTER 138KV         155         0-00022         0-23252           VERE         BPU- CITY OF MCPHERSON 115KV         259         0-23475         WERE         WACO 138KV         17.947         0.0198         0-12322           VERE         HUTCHINSON ENERGY CENTER 115KV         273.2761         0-18576         WERE         JEFREY ENERGY CENTER 135KV         400         0.1144         0.20231           VERE         HUTCHINSON ENERGY CENTER 115KV         273.2761         0-18576         WERE         JEFREY ENERGY CENTER 230KV         400         0.01447         0.20243           VERE         HUTCHINSON ENERGY CENTER 68KV         67         0-18567         WERE         JEFREY ENERGY CENTER 230KV         400         0.01447         0.20241           VERE         HUTCHINSON ENERGY CENTER 68KV         67         0-18567         WERE         JEFREY ENERGY CENTER 230KV         400         0.01448         0.20245           VERE         HUTCHINSON ENERGY CENTER 115KV         273.2761         0-18567         WERE         SMOKEY HILLS 34KV         60										
EPE         BPU_CITY OF MCPHERSON 115K/V         259         0.23475         WERE         EVANS ENERGY CENTER 138K/V         306         0.00022         0.23425           EPE         BPU_CITY OF MCPHERSON 115K/V         259         0.23475         WERE         VALOS CENTER 138K/V         175.47         -0.00128         0.23252           EPER         HUTCHINSON ENERGY CENTER 115K/V         273.2761         -0.18576         WERE         JEFRREY ENERGY CENTER 123K/V         400         0.0144         -0.20234           EFER         HUTCHINSON ENERGY CENTER 115K/V         273.2761         -0.18576         WERE         JEFRREY ENERGY CENTER 123K/V         400         0.01443         -0.20234           EFER         HUTCHINSON ENERGY CENTER 68K/V         67         -0.18667         WERE         JEFRREY ENERGY CENTER 135K/V         401         0.01443         -0.2024           EFER         HUTCHINSON ENERGY CENTER 68K/V         67         -0.18667         WERE         SMOKEY HULS 34K/V         401         0.01444         -0.2004           EFER         HUTCHINSON ENERGY CENTER 115K/V         273.2761         -0.18677         WERE         SMOKEY HULS 34K/V         400         0.01444         -0.20044           EFER         HUTCHINSON ENERGY CENTER 115K/V         273.2761         -0.18677										
EPE         BPU - CITY OF MCPHERSON 115KV         259         -0.23475         WERE         'OILL ENERGY CENTER 138KV         155         -0.0223         -0.2327           EPRE         HUTCHINSON ENERGY CENTER 115KV         273.2761         -0.15676         WERE         'UEFREY ENERGY CENTER 135KV         40.0194         -0.2327           EPRE         HUTCHINSON ENERGY CENTER 115KV         273.2761         -0.15676         WERE         'UEFREY ENERGY CENTER 345KV         940         0.01444         -0.20023           EPRE         HUTCHINSON ENERGY CENTER 105KV         273.2761         -0.15676         WERE         'UEFREY ENERGY CENTER 345KV         940         0.01444         -0.20023           EPRE         HUTCHINSON ENERGY CENTER 69KV         67         -0.18667         WERE         'JEFREY ENERGY CENTER 345KV         940         0.01444         -0.20014           EPRE         HUTCHINSON ENERGY CENTER 105KV         67         -0.18667         WERE         'JEFREY ENERGY CENTER 345KV         940         0.01444         -0.20014           EPRE         HUTCHINSON ENERGY CENTER 105KV         67         -0.18667         WERE         'SMOKEY HILLS 34KV         10.0         0.01447         -0.20015           EPRE         HUTCHINSON ENERGY CENTER 105KV         273.2761         -0.18676										
EFEE         'BPU-CITYOP MCPHERSON 115KV'         2269         0.22877         WACC 138KV'         'T.9477         0.0168         0.22877           EFER         HUTCHINSON ENERGY CENTER 115KV         273.2761         0.18576         WERE         'WEREY ENERGY CENTER 15KV         940         0.01447         0.20023           VERE         HUTCHINSON ENERGY CENTER 15KV         273.2761         0.18576         WERE         'WEREY ENERGY CENTER 45KV         940         0.01447         0.20023           VERE         HUTCHINSON ENERGY CENTER 65KV         273.2761         0.18567         WERE         'WEREY ENERGY CENTER 45KV         940         0.01448         0.20023           VERE         HUTCHINSON ENERGY CENTER 65KV         67         0.18567         WERE         'WEREY ENERGY CENTER 45KV         940         0.01448         0.20015           VERE         HUTCHINSON ENERGY CENTER 115KV         273.2761         0.18567         WERE         'LAWRENCE ENERGY CENTER 115KV         108         0.010383         0.19421           VERE         HUTCHINSON ENERGY CENTER 115KV         273.2761         0.18576         WERE         'LAWRENCE ENERGY CENTER 115KV         108         0.01037         0.19471           VERE         HUTCHINSON ENERGY CENTER 115KV         273.2761         0.18576         WERE										
HUTCHINSON ENERGY CENTER 115KV         273.2761         0.1857         WERE         UEFFREY ENERGY CENTER 120KV         470         0.0139         -0.19996           VERE         HUTCHINSON ENERGY CENTER 115KV         273.2761         0.18576         WERE         UEFREY ENERGY CENTER 15KV         900         0.01448         -0.20034           VERE         HUTCHINSON ENERGY CENTER 66KV         67         0.18567         WERE         UEFREY ENERGY CENTER 345KV         940         0.01448         -0.20034           VERE         HUTCHINSON ENERGY CENTER 66KV         67         0.18567         WERE         UEFREY ENERGY CENTER 345KV         940         0.01447         -0.20034           VERE         HUTCHINSON ENERGY CENTER 66KV         67         0.18567         WERE         UEFREY ENERGY CENTER 145KV         960         0.00851         -0.19237           VERE         HUTCHINSON ENERGY CENTER 115KV         273.2761         0.18576         WERE         LAWRENCE ENERGY CENTER 115KV         28.0808         0.00863         -0.19471           VERE         HUTCHINSON ENERGY CENTER 115KV         273.2761         0.18576         WERE         LAWRENCE ENERGY CENTER 115KV         28.0808         0.00863         -0.19471           VERE         HUTCHINSON ENERGY CENTER 68KV         67         0.18576										
HUTCHINSON ENERGY CENTER 115KV         273 2761         0.1876 WERE         LJEFREY ENERGY CENTER 345KV         940         0.01447         0.20023           VERE         HUTCHINSON ENERGY CENTER 98VV         67         0.18857 WERE         LJEFREY ENERGY CENTER 230KV         470         0.0139         0.19957           VERE         HUTCHINSON ENERGY CENTER 98VV         67         0.18857 WERE         LJEFREY ENERGY CENTER 345KV         490         0.01447         0.20014           VERE         HUTCHINSON ENERGY CENTER 198VV         67         0.18857 WERE         LSKOKEY HILLS 34KV         100         0.01447         0.20014           VERE         HUTCHINSON ENERGY CENTER 115KV         273.2761         0.18857 WERE         LSKOKEY CENTER 115KV         0.00083         0.19429           VERE         HUTCHINSON ENERGY CENTER 115KV         273.2761         0.18876 WERE         LAWEENCE ENERGY CENTER 115KV         228.6008         0.00985         0.19421           VERE         HUTCHINSON ENERGY CENTER 98VV         67         0.18857 WERE         LAWEENCE ENERGY CENTER 115KV         228.6008         0.00985         0.19421           VERE         HUTCHINSON ENERGY CENTER 98VV         67         0.18857 WERE         LAWEENCE ENERGY CENTER 115KV         228.6008         0.00985         0.19462           VERE										
HUTCHINSON ENERGY CENTER 115KV         272.2761         0.18576         WERE         SMOKEY HILLS 34KV         100         0.01448         0.20024           VERE         HUTCHINSON ENERGY CENTER 69KV         67         0.18567         WERE         JEFFREY ENERGY CENTER 335KV         940         0.01447         0.013967           VERE         HUTCHINSON ENERGY CENTER 69KV         67         0.18567         WERE         JEFFREY ENERGY CENTER 345KV         940         0.01448         0.20015           VERE         HUTCHINSON ENERGY CENTER 69KV         67         0.18567         WERE         LAWRENCE ENERGY CENTER 15KV         60         0.00953         -0.19421           VERE         HUTCHINSON ENERGY CENTER 115KV         272.2761         0.18576         WERE         TECUMSEH ENERGY CENTER 15KV         108         0.01937         -0.19613           VERE         HUTCHINSON ENERGY CENTER 69KV         67         0.18567         WERE         LAWRENCE ENERGY CENTER 115KV         228.6008         0.00985         -0.1964           VERE         HUTCHINSON ENERGY CENTER 69KV         67         0.18567         WERE         LAWRENCE ENERGY CENTER 115KV         208         0.00031         -0.1964           VERE         HUTCHINSON ENERGY CENTER 69KV         67         0.18567         WERE <td< td=""><td></td><td></td><td></td><td>-0.18576</td><td>WERE</td><td></td><td></td><td></td><td></td><td></td></td<>				-0.18576	WERE					
HUTCHINSON ENERGY CENTER 99KV         67         0.18567 WERE         JEFEREY ENERGY CENTER 230KV         470         0.0138         0.19957           VERE         'HUTCHINSON ENERGY CENTER 69KV         67         0.18567 WERE         'SMOKEY HILLS 34KV         100         0.01448         -0.20014           VERE         'HUTCHINSON ENERGY CENTER 115KV'         273.2761         0.18576 WERE         'SMOKEY HILLS 34KV         100         0.01448         -0.20014           VERE         'HUTCHINSON ENERGY CENTER 115KV'         273.2761         -0.18576 WERE         'LAWRENCE ENERGY CENTER 115KV'         228.6008         0.00886         -0.19421           VERE         'HUTCHINSON ENERGY CENTER 115KV'         273.2761         -0.18576 WERE         'LEVENEE TECLINSEH ENERGY CENTER 115KV'         106         0.00085         -0.19421           VERE         'HUTCHINSON ENERGY CENTER 115KV'         273.2761         -0.18576 WERE         'LAWRENCE ENERGY CENTER 115KV'         0.00086         -0.19421           VERE         'HUTCHINSON ENERGY CENTER 89KV         67         -0.18567 WERE         'LAWRENCE ENERGY CENTER 115KV'         288.0008         0.00086         -0.19421           VERE         'HUTCHINSON ENERGY CENTER 89KV         67         -0.18567 WERE         'LAWRENCE ENERGY CENTER 115KV'         228.6008         0.00088         -0.19421										
HUTCHINSON ENERGY CENTER 69KV         67         0.18567         WERE         JUEFREY ENERGY CENTER 15KV         940         0.01447         0.20014           VERE         HUTCHINSON ENERGY CENTER 115KV         273.2761         0.18576         WERE         LAWRENCE ENERGY CENTER 115KV         60         0.00853         0.19429           VERE         HUTCHINSON ENERGY CENTER 115KV         273.2761         -0.18576         WERE         LAWRENCE ENERGY CENTER 115KV         228.6008         0.00853         -0.19429           VERE         HUTCHINSON ENERGY CENTER 115KV         273.2761         -0.18576         WERE         LAWRENCE ENERGY CENTER 115KV         108         0.00037         -0.19421           VERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         LAWRENCE ENERGY CENTER 115KV         108         0.00853         -0.1942           VERE         'HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         'LAWRENCE ENERGY CENTER 115KV         108         0.00853         -0.1942           VERE         'HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         'LAWRENCE ENERGY CENTER 115KV         108         0.19462           VERE         'HUTCHINSON ENERGY CENTER 115KV         273.2761         -0.18576         WERE										
WERE         HUTCHINSON ENERGY CENTER 115KV         273 2761         -0.18576         WERE         LAWRENCE ENERGY CENTER 115KV         60         0.08853         -0.19428           VERE         HUTCHINSON ENERGY CENTER 115KV         273 2761         -0.18576         WERE         LAWRENCE ENERGY CENTER 115KV         228.608         0.0095         -0.19421           VERE         HUTCHINSON ENERGY CENTER 115KV         273 2761         -0.18576         WERE         LAWRENCE ENERGY CENTER 115KV         0.0005         -0.19421           VERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         LAWRENCE ENERGY CENTER 115KV         0.00853         -0.19421           VERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         LAWRENCE ENERGY CENTER 115KV         228.6008         0.00855         -0.19421           VERE         HUTCHINSON ENERGY CENTER 115KV         273 2761         -0.18576         WERE         TCUMY CENTER 206V/         108         0.01037         -0.19642           VERE         'HUTCHINSON ENERGY CENTER 115KV         273 2761         -0.18576         WERE         'CLIVY OF AUGUSTA 69KY         66.17         0.0003         -0.18694           VERE         'HUTCHINSON ENERGY CENTER 115KV         273 2761         -0.18576         <	VERE		67				940	0.01447	-0.20014	
VERE         'HUTCHINSON ENERGY CENTER 115KV'         273.2761         -0.18576         WERE         'LUMRENCE ENERGY CENTER 115KV'         228.6008         0.00895         -0.19471           VERE         'HUTCHINSON ENERGY CENTER 115KV'         273.2761         -0.18576         WERE         'TECUMSENE HENERGY CENTER 115KV'         60         0.00895         -0.1942           VERE         'HUTCHINSON ENERGY CENTER 69KV'         67         -0.18567         WERE         'LAWRENCE ENERGY CENTER 115KV'         228.6008         0.00895         -0.1942           VERE         'HUTCHINSON ENERGY CENTER 69KV'         67         -0.18567         WERE         'LAWRENCE ENERGY CENTER 115KV'         228.6008         0.00985         -0.1964           VERE         'HUTCHINSON ENERGY CENTER 115KV'         273.2761         -0.18576         WERE         'CITV OF AUGUSTA         66KV'         2.61         0.0031         -0.18664           VERE         'HUTCHINSON ENERGY CENTER 115KV'         273.2761         -0.18576         WERE         'CITV OF AUGUSTA         66KV'         2.61         0.0031         -0.18664           VERE         'HUTCHINSON ENERGY CENTER 115KV'         273.2761         -0.18576         WERE         'CITV OF VINFIELD 69KV'         19.865         0.0013         -0.1876               VERE	VERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.18567	WERE	'SMOKEY HILLS 34KV'	100	0.01448	-0.20015	
VERE         HUTCHINSON ENERGY CENTER 115KV         273.2761         -0.18576         WERE         TECUMSEH ENERGY CENTER 115KV         108         0.10137         -0.19613           VERE         'HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         LAWRENCE ENERGY CENTER 115KV         60         0.00853         -0.1942           VERE         'HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         LAWRENCE ENERGY CENTER 115KV         228.6008         0.00855         -0.1942           VERE         'HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         'ELWRENCY CENTER 115KV         273.2761         -0.18576         WERE         'ELMUTCHINSON ENERGY CENTER 115KV         273.2761         -0.18576         WERE         'CLY OF AUGUSTA 69KV         66.617         0.00018         -0.18964           VERE         'HUTCHINSON ENERGY CENTER 115KV         273.2761         -0.18576         WERE         'CLY OF FILE 69KV'         26.617         0.0003         -0.1876           VERE         'HUTCHINSON ENERGY CENTER 115KV         273.2761         -0.18576         WERE         'CLY OF FILE 69KV'         19.865         0.00138         -0.18766           VERE         'HUTCHINSON ENERGY CENTER 115KV         273.2761         -0.18576         WERE										
HUTCHINSON ENERGY CENTER 69KV         67         -0.1857         WERE         LAWRENCE ENERGY CENTER 115KV         60         0.00853         -0.1942           WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         LAWRENCE ENERGY CENTER 115KV         228.6008         0.00853         -0.19821           WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         TCUMSCH ENERGY CENTER 115KV         203.0013         -0.19804           VERE         HUTCHINSON ENERGY CENTER 115KV         273.2761         -0.18576         WERE         CHANUTE 69KV         46.617         0.0031         -0.18804           VERE         HUTCHINSON ENERGY CENTER 115KV         273.2761         -0.18576         WERE         CITV OF AUGUSTA         69KV         26.1         0.003         -0.18806           VERE         HUTCHINSON ENERGY CENTER 115KV         273.2761         -0.18576         WERE         CITV OF AUGUSTA         9.90401         -0.003         -0.18606           VERE         HUTCHINSON ENERGY CENTER 115KV         273.2761         -0.18576         WERE         CITV OF INLA 69KV         19.965         0.0013         -0.18506           VERE         'HUTCHINSON ENERGY CENTER 115KV         273.2761         -0.18576         WERE <t< td=""><td></td><td></td><td></td><td>-0.18576</td><td>WERE</td><td></td><td></td><td></td><td></td><td></td></t<>				-0.18576	WERE					
WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         LAWRENCE ENERGY CENTER 230KV         228.000         0.00985         -0.19462           WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         TECUMSENE ENERGY CENTER 115KV         108         0.10137         -0.19864           WERE         HUTCHINSON ENERGY CENTER 115KV         273.2761         -0.18576         WERE         CHANUTE 69KV         46.617         0.00018         -0.18694           VERE         HUTCHINSON ENERGY CENTER 115KV         273.2761         -0.18576         WERE         CITV OF AUGUSTA 66KV         26.1         0.0003         -0.18694           VERE         HUTCHINSON ENERGY CENTER 115KV         273.2761         -0.18576         WERE         CITV OF FRLE 69KV         19.965         0.00118         -0.18694           VERE         HUTCHINSON ENERGY CENTER 115KV         273.2761         -0.18576         WERE         CITV OF INFIEL 69KV         19.965         0.0007         -0.18606           VERE         HUTCHINSON ENERGY CENTER 115KV         273.2761         -0.18576         WERE         CITV OF WINFIELD 69KV         39.90011         -0.0007         -0.18606           VERE         HUTCHINSON ENERGY CENTER 115KV         273.2761         -0.1857										
WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.1557         WERE         TECUMSEH ENERGY CENTER 115KV         108         0.01037         0.01904           VERE         HUTCHINSON ENERGY CENTER 115KV         273 2761         -0.15576         WERE         CHANUTE 69KV         46.617         0.0018         -0.18904           VERE         HUTCHINSON ENERGY CENTER 115KV         273 2761         -0.15576         WERE         CITV OF AUGUSTA 69KV         26.1         0.00018         -0.18904           VERE         HUTCHINSON ENERGY CENTER 115KV         273 2761         -0.18576         WERE         CITV OF AUGUSTA 69KV         19.966         0.0013         -0.18604           VERE         HUTCHINSON ENERGY CENTER 115KV         273 2761         -0.18576         WERE         CITV OF FUL 69KV         19.866         0.0013         -0.18604           VERE         HUTCHINSON ENERGY CENTER 115KV         273 2761         -0.18576         WERE         CITV OF IVA 68KV         19.966         0.0002         -0.18604           VERE         HUTCHINSON ENERGY CENTER 115KV         273 2761         -0.18576         WERE         CITV OF IVA 88KV         305         0.00022         -0.18604           VERE         HUTCHINSON ENERGY CENTER 115KV         273 2761         -0.18576         WE										
WERE         HUTCHINSON ENERGY CENTER 115KV         273 2761         -0.18576         WERE         'CLANUTE 69KV         64 617         0.00118         -0.18694           VERE         'HUTCHINSON ENERGY CENTER 115KV'         273 2761         -0.18576         WERE         'CLTY OF AUGUSTA 69KV'         26.1         0.0033         -0.18894           VERE         'HUTCHINSON ENERGY CENTER 115KV'         273 2761         -0.18576         WERE         'CLTY OF CRUE 69KV'         19.866         0.00138         -0.18894           VERE         'HUTCHINSON ENERGY CENTER 115KV'         273 2761         -0.18576         WERE         'CITY OF IOLA 68KV'         19.865         0.00138         -0.18876           VERE         'HUTCHINSON ENERGY CENTER 115KV'         273 2761         -0.18576         WERE         'CITY OF IOLA 68KV'         39.90011         -0.18866           VERE         'HUTCHINSON ENERGY CENTER 115KV'         273 2761         -0.18576         WERE         'CITY OF IOLA 68KV'         39.90011         -0.18866           VERE         'HUTCHINSON ENERGY CENTER 15KV'         273 2761         -0.18576         WERE         'CITY OF AUGUSTA 69KV'         305         0.0002         -0.18866           VERE         'HUTCHINSON ENERGY CENTER 69KV'         67         -0.18576         WERE         '										
VERE         'HUTCHINSON ENERGY CENTER 115KV'         273 2761         -0.18576         WERE         'CITY OF AUGUSTA 69KV'         26.1         0.0003         -0.18676           VERE         'HUTCHINSON ENERGY CENTER 115KV'         273 2761         -0.18576         WERE         'CITY OF FURE 69KV'         19.965         0.0018         -0.18676           VERE         'HUTCHINSON ENERGY CENTER 115KV'         273 2761         -0.18576         WERE         'CITY OF IOLA 68KV'         19.965         0.0018         -0.18676           VERE         'HUTCHINSON ENERGY CENTER 115KV'         273 2761         -0.18576         WERE         'CITY OF VINFIELD 69KV'         39.90401         -0.0007         -0.18666           VERE         'HUTCHINSON ENERGY CENTER 115KV'         273 2761         -0.18576         WERE         'COTY OF VINFIELD 69KV'         39.90401         -0.00022         -0.18664           VERE         'HUTCHINSON ENERGY CENTER 115KV'         273 2761         -0.18576         WERE         'COTY OF VINFIELD 69KV'         305         0.00022         -0.18664           VERE         'HUTCHINSON ENERGY CENTER 69KV'         67         -0.18576         WERE         'CITY OF AUGUSTA 69KV'         305         0.00022         -0.18694           VERE         'HUTCHINSON ENERGY CENTER 69KV'         67										
LERE         HUTCHINSON ENERGY CENTER 115KV         273 2761         -0.18576         WERE         CITV OF ERIE 68KV         19.985         0.00118         -0.18694           LERE         HUTCHINSON ENERGY CENTER 115KV         273 2761         -0.18576         WERE         CITV OF UNLA 68KV         19.9865         0.00139         -0.18576           LERE         HUTCHINSON ENERGY CENTER 115KV         273 2761         -0.18576         WERE         CITV OF UNIVELLD 68KV         19.9865         0.00022         -0.18506           LERE         HUTCHINSON ENERGY CENTER 115KV         273 2761         -0.18576         WERE         COPTEY COUNTY NO. 2 SHARPE 68KV         19.96         0.00022         -0.18506           LERE         HUTCHINSON ENERGY CENTER 115KV         273 2761         -0.18576         WERE         COPTEY COUNTY NO. 2 SHARPE 68KV         305         0.00022         -0.18567           LERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         CITV OF ALGUSTA 69KV         26.1         0.0003         -0.18567           LERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         CITV OF ALGUSTA 69KV         26.1         0.0003         -0.18567           LERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.1856										
HUTCHINSON ENERGY CENTER 115KV         273 2761         -0.18576         WERE         CITY OF IOLA 68KV         19.865         0.00139         -0.18716           VERE         HUTCHINSON ENERGY CENTER 115KV         273 2761         -0.18576         WERE         CITY OF IOLA 68KV         39.90011         -0.0077         -0.18566           VERE         HUTCHINSON ENERGY CENTER 115KV         273 2761         -0.18576         WERE         COFFEY COUNTY NO.2 SHARPE 68KV         305         0.00022         -0.18566           VERE         HUTCHINSON ENERGY CENTER 115KV         273 2761         -0.18576         WERE         COFFEY COUNTY NO.2 SHARPE 68KV         305         0.00022         -0.18566           VERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         CHAN TE 69KV         305         0.00022         -0.18568           VERE         'HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         CITY OF FAIL 69KV         261         0.0018         -0.18685           VERE         'HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         CITY OF FAIL 69KV         261         0.0032         -0.18697           VERE         'HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         CITY OF F										
WERE         HUTCHINSON ENERGY CENTER 115KV         273 2761         -0.18576         WERE         COTF VOLVING         93 90011         -0.0007         -0.18566           WERE         HUTCHINSON ENERGY CENTER 115KV         273 2761         -0.18576         WERE         COTF VOLVING         SHARPE 66KV         19.96         0.00022         -0.18606           WERE         HUTCHINSON ENERGY CENTER 115KV         273 2761         -0.18576         WERE         EVANS ENERGY CENTER 15KV         305         0.00022         -0.18606           WERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         CHANDIE 69KV         46.171         0.00032         -0.18567           VERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         CITV OF AUGUSTA 69KV         26.1         0.0003         -0.18567           VERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         CITV OF AUGUSTA 69KV         26.1         0.0003         -0.18567           VERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         CITV OF FUL 69KV         26.1         0.0003         -0.18567           VERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE										
VERE         'HUTCHINSON ENERGY CENTER 115KV'         273.2761         -0.18576         WERE         'COFFEY COUNTY NO.2 SHARPE 68KV'         19.86         0.00228         -0.1804           VERE         'HUTCHINSON ENERGY CENTER 115KV'         273.2761         -0.18576         WERE         'EVANS DERGY CENTER 138KV'         305         0.00022         -0.18964           VERE         'HUTCHINSON ENERGY CENTER 69KV'         67         -0.18567         WERE         'CHANUTE 69KV'         46.617         0.00118         -0.18865           VERE         'HUTCHINSON ENERGY CENTER 69KV'         67         -0.18667         WERE         'CIT Y OF AUGUSTA 69KV'         26.1         0.0003         -0.18967           VERE         'HUTCHINSON ENERGY CENTER 69KV'         67         -0.18667         WERE         'CIT Y OF FREI 69KV'         26.1         0.0018         -0.18867           VERE         'HUTCHINSON ENERGY CENTER 69KV'         67         -0.1867         WERE         'CIT Y OF FREI 69KV'         19.965         0.0018         -0.18865           VERE         'HUTCHINSON ENERGY CENTER 69KV'         67         -0.1867         WERE         'CIT Y OF IOLA 69KV'         19.965         0.0018         -0.18976           VERE         'HUTCHINSON ENERGY CENTER 69KV'         67         -0.1867 WERE		'HUTCHINSON ENERGY CENTER 115KV'		-0.18576	WERE					
IERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         CLANUTE 69KV         46.617         0.00118         -0.18887           VERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         CLTV OF AUGUSTA 69KV         26.1         0.00118         -0.18887           VERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         CITV OF AUGUSTA 69KV         26.1         0.00138         -0.18867           VERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         CITV OF FILE 69KV         19.865         0.0138         -0.18706           VERE         'HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         COTFV OF OUNT NO.2         SHARPE 69KV         19.865         0.0138         -0.18706           VERE         'HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         COTFV OCUNITY NO.2         SHARPE 69KV         19.966         0.0022         -0.18706           VERE         'HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         COTFV OCUNITY NO.2         SHARPE 69KV         39.5         0.0022         -0.18795           VERE         'HUTCHINSON ENERGY CENTER 15KV         273.276		'HUTCHINSON ENERGY CENTER 115KV'								
LERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         CITY OF AUGUSTA 69KV         26.1         0.0003         -0.18577           LERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         CITY OF FAUE 05KV         19.965         0.0118         -0.18567           LERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         CITY OF FAILE 69KV         19.965         0.00138         -0.18766           LERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         COPFEY COUNTY NO.2 SHARPE 69KV         19.965         0.00228         -0.18765           LERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         COPFEY COUNTY NO.2 SHARPE 69KV         19.96         0.00228         -0.18765           LERE         HUTCHINSON ENERGY CENTER 115KV         273.2761         -0.18567         WERE         CITY OF WELLINGTON 69KV         39.5         -0.0118         -0.18453           LERE         HUTCHINSON ENERGY CENTER 115KV         273.2761         -0.18576         WERE         CITY OF WELLINGTON 69KV         39.5         -0.00118         -0.18453           LERE         HUTCHINSON ENERGY CENTER 115KV         273.2761         -0.18576										
Image: Hurchinson ENERgy CENTER 69KV         67         -0.18567         WERE         CITY OF ERIE 69KV         19.965         0.00118         -0.18687           VERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         CITY OF ERIE 69KV         19.865         0.0013         -0.18867           VERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         COFFEY COUNTY NO.2 SHARPE 69KV         19.965         0.0013         -0.18567           VERE         'HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         'COFFEY COUNTY NO.2 SHARPE 69KV         19.965         0.0022         -0.18567           VERE         'HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         'COFFEY COUNTY NO.2 SHARPE 69KV         30.5         0.00022         -0.18569           VERE         'HUTCHINSON ENERGY CENTER 15KV         273.2761         -0.18576         WERE         'CITY OF WELLINGTON 69KV         39.5         -0.00118         -0.18578           VERE         'HUTCHINSON ENERGY CENTER 115KV         273.2761         -0.18576         WERE         'GITY OF WELLINGTON 69KV         17.947         0.00223         -0.18378           VERE         'HUTCHINSON ENERGY CENTER 115KV         273.2761         -0.18576										
VERE         'HUTCHINSON ENERGY CENTER 69KV'         67         -0.1567         WERE         'COPFEY COUNTY NO.2         SHARPE         66KV'         19.865         0.00139         0.01370         0.18706           VERE         'HUTCHINSON ENERGY CENTER 69KV'         67         -0.15667         WERE         'COPFEY COUNTY NO.2         SHARPE 69KV'         19.96         0.00228         -0.18706           VERE         'HUTCHINSON ENERGY CENTER 69KV'         67         -0.15867         WERE         'COPFEY COUNTY NO.2         SHARPE 69KV'         19.96         0.00228         -0.18796           VERE         'HUTCHINSON ENERGY CENTER 69KV'         67         -0.15867         WERE         'CONTO FWELLINGTON 69KV'         39.5         0.00228         -0.18899           VERE         'HUTCHINSON ENERGY CENTER 115KV'         273.2761         -0.18576         WERE         'GILL ENERGY CENTER 138KV'         39.5         -0.00118         -0.18458           VERE         'HUTCHINSON ENERGY CENTER 115KV'         273.2761         -0.18576         WERE         'GILL ENERGY CENTER 138KV'         155         -0.00228         -0.18353           VERE         'HUTCHINSON ENERGY CENTER 115KV'         273.2761         -0.18576         WERE         'WACO 138KV'         17.947         -0.18449           VE	VERE									
LERE         HUTCHINSON ENERGY CENTER 69KV'         67         -0.18567         WERE         'COFFEY COUNTY NO. 2 SHARPE 69KV'         19.96         0.00228         -0.18795           JERE         'HUTCHINSON ENERGY CENTER 69KV'         67         -0.18567         WERE         'EVANS ENERGY CENTER 136KV'         305         0.0022         -0.18795           JERE         'HUTCHINSON ENERGY CENTER 115KV'         273.2761         -0.18576         WERE         'EVANS ENERGY CENTER 135KV'         305         -0.0018         -1.8456           JERE         'HUTCHINSON ENERGY CENTER 115KV'         273.2761         -0.18576         WERE         'GILL ENERGY CENTER 135KV'         155         -0.0018         -0.18357           JERE         'HUTCHINSON ENERGY CENTER 115KV'         273.2761         -0.18576         WERE         'GILL ENERGY CENTER 135KV'         155         -0.0018         -0.18357           JERE         'HUTCHINSON ENERGY CENTER 115KV'         273.2761         -0.18576         WERE         'WADO         138KV'         175         -0.0018         -0.18357           JERE         'HUTCHINSON ENERGY CENTER 69KV'         67         -0.18567         WERE         'CITY OF WELLINGTON 69KV'         39.5         -0.00118         -0.18479           JERE         'HUTCHINSON ENERGY CENTER 69KV'										
ERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.1857 WERE         EVANS ENERGY CENTER 138KV         305         0.00022         0.18589           ERE         HUTCHINSON ENERGY CENTER 115KV         273 2761         -0.18576 WERE         ICITY OF WELLINGTON 69KV         39.5         0.0022         -0.18589           JERE         HUTCHINSON ENERGY CENTER 115KV         273 2761         -0.18576 WERE         ICITY OF WELLINGTON 69KV         39.5         0.00223         -0.18353           JERE         HUTCHINSON ENERGY CENTER 115KV         273 2761         -0.18576 WERE         'GILL ENERGY CENTER 136KV         155         -0.00233         -0.18353           JERE         HUTCHINSON ENERGY CENTER 115KV         273 2761         -0.18576 WERE         'WACO 138KV         17.947         -0.0198         -0.18576           VERE         HUTCHINSON ENERGY CENTER 115KV         273 2761         -0.18576 WERE         'CITY OF WELLINGTON 69KV         17.947         -0.0198         -0.18576           VERE         'HUTCHINSON ENERGY CENTER 69KV         67         -0.18567 WERE         'CITY OF WILLINGTON 69KV         39.5         -0.00118         -0.18449           FERE         'HUTCHINSON ENERGY CENTER 69KV         67         -0.15567 WERE         'CITY OF WINFIELD 69KV         39.90401         -0.00223         -0.1847<										
IEEE         IHUTCHINSON ENERGY CENTER 115KV         273.2761         -0.18576         WERE         'CITY OF WELLINGTON 69KV'         39.5         -0.00118         -0.18458           IEEE         'HUTCHINSON ENERGY CENTER 115KV'         273.2761         -0.18576         WERE         'GILL ENERGY CENTER 138KV'         155         -0.0023         -0.18353           VERE         'HUTCHINSON ENERGY CENTER 115KV'         273.2761         -0.18576         WERE         'WACO 138KV'         175.47         -0.00188         -0.18357           VERE         'HUTCHINSON ENERGY CENTER 115KV'         273.2761         -0.18576         WERE         WACO 138KV'         175.47         -0.00188         -0.18378           VERE         'HUTCHINSON ENERGY CENTER 15KV'         273.2761         -0.18567         WERE         'CITY OF WILLINGTON 69KV'         39.5         -0.0018         -0.18478           VERE         'HUTCHINSON ENERGY CENTER 69KV'         67         -0.18567         WERE         'CITY OF WILFIELD 69KV'         39.90401         -0.0007         -0.01847           'ERE         'HUTCHINSON ENERGY CENTER 69KV'         67         -0.18567         WERE         'CITY OF WINFIELD 69KV'         39.90401         -0.0007         -0.0027         -0.18497           'ERE         'HUTCHINSON ENERGY CENTER 69KV'										
ERE         'HUTCHINSON ENERGY CENTER 115KV'         273 2761         -0.18576         WERE         'GULL ENERGY CENTER 138KV'         115         -0.0223         -0.18337           ERE         'HUTCHINSON ENERGY CENTER 115KV'         273 2761         -0.18576         WERE         WACO 138KV'         17.947         -0.0018         -0.18378           ERE         'HUTCHINSON ENERGY CENTER 68KV'         67         -0.18567         WERE         CITY OF WELLINGTON 69KV'         39.5         -0.00118         -0.1849           ERE         'HUTCHINSON ENERGY CENTER 69KV'         67         -0.18567         WERE         CITY OF WILFIELD 69KV'         39.90401         -0.0007         -0.1849           ERE         'HUTCHINSON ENERGY CENTER 69KV'         67         -0.18567         WERE         CITY OF WINFIELD 69KV'         39.90401         -0.0007         -0.18497           ERE         'HUTCHINSON ENERGY CENTER 69KV'         67         -0.18567         WERE         'GILL ENERGY CENTER 138KV'         155         -0.0007         -0.18497										
ERE         'HUTCHINSON ENERGY CENTER 115KV'         273.2761         -0.18576         WERE         WACO 138KV'         17.947         -0.00198         -0.18378           ERE         'HUTCHINSON ENERGY CENTER 69KV'         67         -0.18657         WERE         'CITY OF WELLINGTON 69KV'         39.5         -0.0118         -0.18439           ERE         'HUTCHINSON ENERGY CENTER 69KV'         67         -0.18657         WERE         'CITY OF WILLINGTON 69KV'         39.90401         -0.0007         -0.18497           ERE         'HUTCHINSON ENERGY CENTER 69KV'         67         -0.18657         WERE         'CITY OF WINFIELD 69KV'         39.90401         -0.0007         -0.18497           ERE         'HUTCHINSON ENERGY CENTER 69KV'         67         -0.18567         WERE         'GILL ENERGY CENTER 138KV'         155         -0.0023         -0.18544										
IEEE         IHUTCHINSON ENERGY CENTER 69KV         67         -0.18567 WERE         ICITY OF WELLINGTON 69KV         39.5         -0.0118         0.18449           IEEE         IHUTCHINSON ENERGY CENTER 69KV         67         -0.18567 WERE         'CITY OF WINFIELD 69KV'         39.90401         -0.0007         -0.18497           VERE         IHUTCHINSON ENERGY CENTER 69KV'         67         -0.18567 WERE         'GILL BNERGY CENTER 138KV'         39.90401         -0.0007         -0.18497										
IPERE         HUTCHINSON ENERGY CENTER 69KV         67         -0.18567         WERE         'CITY OF WINFIELD 69KV'         39.90401         -0.0007         -0.18497           VERE         'HUTCHINSON ENERGY CENTER 69KV'         67         -0.18567         WERE         'GILL ENERGY CENTER 138KV'         155         -0.00223         -0.18344										
		'HUTCHINSON ENERGY CENTER 69KV'				'CITY OF WINFIELD 69KV'		-0.0007		
								-0.00223		
//ERE         //HUTCHINSON ENERGY CENTER 69K/*         67         -0.18567 WERE         WACO 138K/*         17.947         -0.00198         -0.18369           aximum Decrement and Maximum Increment were determine from the Souce and Sink Operating Points in the study models where limiting facility was identified.         17.947         -0.00198         -0.18369	/ERE	'HUTCHINSON ENERGY CENTER 69KV'	67			'WACO 138KV'	17.947	-0.00198	-0.18369	

Table 6 - Potential	Redispatch Relief Pairs to Prevent Deferral of Se	ervice						
Upgrade: Limiting Facility: Direction: Line Outage: Flowgate: Date Redispatch Needed: Season Flowgate Identified:	WICHITA - RENO CO 345KV NORTH AMERICAN PHILIPS JUNCTION (SOUTH) - WE From-To EAST MCPHERSON - SUMMIT 230KV CKT 1 5734574331658725687312208WP Starting 2008 1211 - 411 Until EOC 2008 Winter Peak	EST MCPHERSON 1	15KV CKT 1					
		Aggregate Relief	7					
Reservation	Relief Amount	Amount	-					
1034589								
1034590								
1034595	4.	Maximum 8.2	2	Sink Control		Maximum	т	- -
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Fac
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			JEFFREY ENERGY CENTER 230KV	470		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			JEFFREY ENERGY CENTER 345KV	940		
WERE	BPU - CITY OF MCPHERSON 115KV	259			SMOKEY HILLS 34KV	100		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'LAWRENCE ENERGY CENTER 115KV'	16.69849		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'LAWRENCE ENERGY CENTER 230KV'	231.5672		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			TECUMSEH ENERGY CENTER 115KV	48		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'CITY OF AUGUSTA 69KV'	24.3		
WERE	BPU - CITY OF MCPHERSON 115KV	259			CITY OF IOLA 69KV	19.902		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'CITY OF WELLINGTON 69KV'	39.5		
WERE	BPU - CITY OF MCPHERSON 115KV	259			CITY OF WINFIELD 69KV	15.81898		
WERE	BPU - CITY OF MCPHERSON 115KV	259			COFFEY COUNTY NO. 2 SHARPE 69KV	19.61		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'EVANS ENERGY CENTER 138KV'	110		
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			WACO 138KV	17.414		
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383			JEFFREY ENERGY CENTER 230KV	470		
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383			JEFFREY ENERGY CENTER 345KV	940		
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383			'SMOKEY HILLS 34KV'	100		
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67			JEFFREY ENERGY CENTER 230KV	470		
WERE	HUTCHINSON ENERGY CENTER 69KV	67			JEFFREY ENERGY CENTER 345KV	940		
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67			'SMOKEY HILLS 34KV'	100		
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383			'LAWRENCE ENERGY CENTER 115KV'	16.69849		
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383			'LAWRENCE ENERGY CENTER 230KV'	231.5672		
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383			'TECUMSEH ENERGY CENTER 115KV'	48		
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67			'LAWRENCE ENERGY CENTER 115KV'	16.69849		
WERE	HUTCHINSON ENERGY CENTER 69KV	67			'LAWRENCE ENERGY CENTER 230KV'	231,5672		
WERE	HUTCHINSON ENERGY CENTER 69KV	67			TECUMSEH ENERGY CENTER 115KV	48		
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383			'CITY OF AUGUSTA 69KV'	24.3		
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383			CITY OF WINFIELD 69KV	15.81898		
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383			COFFEY COUNTY NO. 2 SHARPE 69KV	19.61		
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383			'EVANS ENERGY CENTER 138KV'	110		
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67			CITY OF AUGUSTA 69KV	24.3		
WEDE	UNITED INCOMENED OV CENTED ROKA	67			COFFEY COUNTY NO 2 CUADDE 60KM	10.61		

Redispatch Amount (MW)

 $\begin{array}{c} 33\\ 33\\ 34\\ 34\\ 34\\ 35\\ 35\\ 35\\ 35\\ 35\\ 35\\ 35\\ 35\\ 35\\ 41\\ 41\\ 41\\ 41\\ 41\\ 41\end{array}$ 

 $\begin{array}{c} Factor \\ -0.24657 \\ -0.24957 \\ -0.24952 \\ -0.24922 \\ -0.24364 \\ -0.24364 \\ -0.24364 \\ -0.24369 \\ -0.23497 \\ -0.23497 \\ -0.22609 \\ -0.23497 \\ -0.22609 \\ -0.23497 \\ -0.22609 \\ -0.23497 \\ -0.22609 \\ -0.23497 \\ -0.22609 \\ -0.23497 \\ -0.22609 \\ -0.23497 \\ -0.22609 \\ -0.23497 \\ -0.22609 \\ -0.23497 \\ -0.22609 \\ -0.226$ 

 15.81898
 -0.00071

 19.61
 0.00224

 110
 0.00028

 24.3
 0.00028

 19.61
 0.00224

 110
 0.00024

 110
 0.00024

 110
 0.00024

 139.5
 -0.0012

 39.5
 -0.0012

 39.5
 -0.0012

 15.81898
 -0.00071

 17.414
 -0.002

 WERE
 I'HUTCHINSON ENERGY CENTER 69KV
 67
 -0.18551
 WERE
 'CITY OF AUGUSTA 69KV'

 WERE
 'HUTCHINSON ENERGY CENTER 69KV
 67
 -0.18551
 WERE
 'COFFEY COUNTY NO.2 SHARPE 69KV'

 WERE
 'HUTCHINSON ENERGY CENTER 69KV
 67
 -0.18551
 WERE
 'EVANS ENERGY CENTER 13KV'

 WERE
 'HUTCHINSON ENERGY CENTER 115KV'
 383
 -0.18550
 WERE
 'UATO HINSON ENERGY CENTER 115KV'
 383
 -0.18550
 WERE
 'WATO HINSON ENERGY CENTER 115KV'
 383
 -0.18550
 WERE
 'UTO HINSON ENERGY CENTER 69KV'
 67
 -0.18551
 WERE
 'UTY OF WELLINGTON 69KV'
 'WATO HINSON ENERGY CENTER 69KV'

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

Upgrade:	WICHITA - RENO CO 345KV								
Limiting Facility:	NORTH AMERICAN PHILIPS JUNCTION (SOUTH) - WE	ST MCPHERSON 1	15KV CKT 2						
Direction:	From->To								
Line Outage:	EAST MCPHERSON - SUMMIT 230KV CKT 1								
Flowgate:	57374574382568725687312206WP								
Date Redispatch Needed:	12/1/06 - 4/1/07								
Season Flowgate Identified:	2006 Winter Peak								
		Aggregate Relief	1						
Reservation	Relief Amount	Amount							
1034589			1						
1034590									
1004000	2.1	Maximum		Sink Control		Maximum	1		Redispatch
Source Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			CHANUTE 69KV	35.344		-0.28087	10
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			CITY OF AUGUSTA 69KV	18.8		-0.27972	10
WERE	BPU - CITY OF MCPHERSON 115KV	259			CITY OF AUGUSTA 69KV	5.4		-0.27972	10
WERE	BPU - CITY OF MCPHERSON 115KV	259			CITY OF BURLINGTON BARV	13.978		-0.28236	10
WERE	BPU - CITY OF MCPHERSON 115KV BPU - CITY OF MCPHERSON 115KV	259	-0.2792		CITY OF IOLA 69KV	3.694	-0.00062	-0.28115	10
WERE	BPU - CITY OF MCPHERSON 115KV				CITY OF MOLVANE 69KV	3.694		-0.27858	10
		259							
WERE	BPU - CITY OF MCPHERSON 115KV	259			'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.97		-0.28238	10
WERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.2792		'EVANS ENERGY CENTER 138KV'	69.8855	0.00041	-0.27961	10
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'JEFFREY ENERGY CENTER 230KV'	470		-0.29798	10
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'JEFFREY ENERGY CENTER 345KV'	940		-0.29875	10
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'LAWRENCE ENERGY CENTER 230KV'	181.4851	0.01217	-0.29137	10
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'TECUMSEH ENERGY CENTER 115KV'	48		-0.29323	10
WERE	'BPU - CITY OF MCPHERSON 115KV'	259			'WACO 138KV'	17.953		-0.27666	10
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383			'JEFFREY ENERGY CENTER 230KV'	470		-0.245	12
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383			'JEFFREY ENERGY CENTER 345KV'	940	0.01955	-0.24577	12
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383			'LAWRENCE ENERGY CENTER 230KV'	181.4851	0.01217	-0.23839	12
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.22622	WERE	'TECUMSEH ENERGY CENTER 115KV'	48		-0.24025	12
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67			'JEFFREY ENERGY CENTER 230KV'	470		-0.2449	12
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22612	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01955	-0.24567	12
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22612	WERE	'LAWRENCE ENERGY CENTER 230KV'	181.4851	0.01217	-0.23829	12
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.22612	WERE	'TECUMSEH ENERGY CENTER 115KV'	48	0.01403	-0.24015	12
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.22622	WERE	'CHANUTE 69KV'	35.344	0.00167	-0.22789	13
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.22622	WERE	'CITY OF AUGUSTA 69KV'	18.8	0.00052	-0.22674	13
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383			'CITY OF BURLINGTON 69KV'	5.4		-0.2294	13
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.22622	WERE	CITY OF IOLA 69KV	13.978	0.00195	-0.22817	13
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.22622	WERE	'CITY OF WELLINGTON 69KV'	29.148	-0.0015	-0.22472	13
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383			COFFEY COUNTY NO. 2 SHARPE 69KV	19.97		-0.2294	13
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383			'EVANS ENERGY CENTER 138KV'	69.8855		-0.22663	13
WERE	'HUTCHINSON ENERGY CENTER 115KV'	383			'WACO 138KV'	17.953		-0.22368	13
WERE	HUTCHINSON ENERGY CENTER 69KV	67			CHANUTE 69KV	35.344		-0.22779	
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67			CITY OF AUGUSTA 69KV'	18.8		-0.22664	13
WERE	'HUTCHINSON ENERGY CENTER 69KV'	67			CITY OF BURLINGTON 69KV	5.4		-0.2293	13
WERE	HUTCHINSON ENERGY CENTER 69KV	67			CITY OF IOLA 69KV	13.978		-0.22807	13
WERE	HUTCHINSON ENERGY CENTER 69KV	67			CITY OF IOLA 69KV	29.148		-0.22607	13
WERE	HUTCHINSON ENERGY CENTER 69KV	67			COFFEY COUNTY NO. 2 SHARPE 69KV	29.148		-0.22462	13
WERE	HUTCHINSON ENERGY CENTER 69KV	67	-0.22612		'EVANS ENERGY CENTER 138KV'	69.8855	0.000318	-0.2293	13
WERE	HUTCHINSON ENERGY CENTER 69KV	67			WACO 138KV	17.953		-0.22358	13
WEPL	'A. M. MULLERGREN GENERATOR 115KV'	59.0015			'GRAY COUNTY WIND FARM 115KV'	36		-0.04597	63
WEPL	A. M. MULLERGREN GENERATOR 115KV kimum Increment were determine from the Souce and Sink (	59.0015			'JUDSON LARGE 115KV'	45.09819	-0.07277	-0.04605	63

Maximum Decrement and Maximum Increme Factor = Source GSF - Sink GSF Redispatch Amount = Relief Amount / Factor termine from the Souce and Sink Operating Points in the study models where limiting facility was id

imiting Facility:	NORTH AMERICAN PHILIPS JUNCTION (SOUTH) - WE	ST MCPHERSON 1	15KV CKT 2						
Direction:	From->To								
ine Outage:	EAST MCPHERSON - SUMMIT 230KV CKT 1								
lowgate:	57374574382568725687312208WP								
Date Redispatch Needed:	Starting 2008 12/1 - 4/1 Until EOC 2008 Winter Peak								
eason Flowgate Identified:	2006 Willer Peak	Aggregate Relief	٦						
Reservation	Relief Amount	Amount							
1034589									
1034590									
1034595									
		Maximum		Sink Control		Maximum	1 1		Redispatch
ource Control Area	Source	Increment(MW)	GSF	Area	Sink	Decrement(MW)	GSF	Factor	Amount (MW)
VERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26998	WERE	'JEFFREY ENERGY CENTER 230KV'	470	0.01596	-0.28594	i i i
/ERE	'BPU - CITY OF MCPHERSON 115KV'	259	-0.26998	WERE	'JEFFREY ENERGY CENTER 345KV'	940	0.01664	-0.28662	2
/ERE	'BPU - CITY OF MCPHERSON 115KV'	259			'SMOKEY HILLS 34KV'	100		-0.2867	
VERE	'BPU - CITY OF MCPHERSON 115KV'	259		WERE	'TECUMSEH ENERGY CENTER 115KV'	48		-0.28189	
/ERE	'BPU - CITY OF MCPHERSON 115KV'	259			'CHANUTE 69KV'	34.903		-0.27135	
/ERE	'BPU - CITY OF MCPHERSON 115KV'	259		WERE	'CITY OF AUGUSTA 69KV'	24.3		-0.2703	
/ERE	'BPU - CITY OF MCPHERSON 115KV'	259			'CITY OF BURLINGTON 69KV'	10.5		-0.27256	
/ERE	BPU - CITY OF MCPHERSON 115KV	259			CITY OF IOLA 69KV	19.902		-0.27159	
/ERE	BPU - CITY OF MCPHERSON 115KV	259			CITY OF WELLINGTON 69KV'	39.5		-0.2686	
/ERE	BPU - CITY OF MCPHERSON 115KV	259			CITY OF WINFIELD 69KV	15.81898		-0.26916	
/ERE	BPU - CITY OF MCPHERSON 115KV	259			COFFEY COUNTY NO. 2 SHARPE 69KV	19.61		-0.27256	
/ERE	BPU - CITY OF MCPHERSON 115KV	259 259			'EVANS ENERGY CENTER 138KV'	110			
ERE	BPU - CITY OF MCPHERSON 115KV BPU - CITY OF MCPHERSON 115KV	259			'LAWRENCE ENERGY CENTER 115KV' 'LAWRENCE ENERGY CENTER 230KV'	16.69849 231.5672		-0.27979	
ERE	BPU - CITY OF MCPHERSON 115KV BPU - CITY OF MCPHERSON 115KV	259			WACO 138KV	231.56/2		-0.28027	
ERE	HUTCHINSON ENERGY CENTER 115KV	383			JEFFREY ENERGY CENTER 230KV	470		-0.22958	
ERE	HUTCHINSON ENERGY CENTER 115KV	383		WERE	JEFFREY ENERGY CENTER 345KV	940		-0.23026	
/ERE	HUTCHINSON ENERGY CENTER 115KV	383			SMOKEY HILLS 34KV	100		-0.23034	
'ERE	'HUTCHINSON ENERGY CENTER 115KV'	383			TECUMSEH ENERGY CENTER 115KV	48		-0.22553	
/ERE	HUTCHINSON ENERGY CENTER 69KV	67		WERE	JEFFREY ENERGY CENTER 230KV	470		-0.22937	
/ERE	'HUTCHINSON ENERGY CENTER 69KV'	67		WERE	JEFFREY ENERGY CENTER 345KV	940		-0.23005	
/ERE	'HUTCHINSON ENERGY CENTER 69KV'	67		WERE	'SMOKEY HILLS 34KV'	100		-0.23013	
/ERE	'HUTCHINSON ENERGY CENTER 69KV'	67	-0.21341	WERE	'TECUMSEH ENERGY CENTER 115KV'	48	8 0.01191	-0.22532	1
ERE	'HUTCHINSON ENERGY CENTER 115KV'	383	-0.21362	WERE	'CITY OF BURLINGTON 69KV'	10.5	0.00258	-0.2162	1
/ERE	'HUTCHINSON ENERGY CENTER 115KV'	383		WERE	'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.61		-0.2162	
'ERE	'HUTCHINSON ENERGY CENTER 115KV'	383			'LAWRENCE ENERGY CENTER 115KV'	16.69849		-0.22343	
'ERE	'HUTCHINSON ENERGY CENTER 115KV'	383		WERE	'LAWRENCE ENERGY CENTER 230KV'	231.5672		-0.22391	
'ERE	'HUTCHINSON ENERGY CENTER 69KV'	67			'CITY OF BURLINGTON 69KV'	10.5		-0.21599	
/ERE	'HUTCHINSON ENERGY CENTER 69KV'	67			'COFFEY COUNTY NO. 2 SHARPE 69KV'	19.61		-0.21599	
ERE	'HUTCHINSON ENERGY CENTER 69KV'	67			'LAWRENCE ENERGY CENTER 115KV'	16.69849		-0.22322	
ERE	'HUTCHINSON ENERGY CENTER 69KV'	67			'LAWRENCE ENERGY CENTER 230KV'	231.5672		-0.2237	
ERE	'HUTCHINSON ENERGY CENTER 115KV'	383		WERE	CHANUTE 69KV	34.903		-0.21499	
/ERE	'HUTCHINSON ENERGY CENTER 115KV'	383			CITY OF AUGUSTA 69KV	24.3		-0.21394	
/ERE	'HUTCHINSON ENERGY CENTER 115KV'	383			CITY OF IOLA 69KV	19.902		-0.21523	
'ERE	'HUTCHINSON ENERGY CENTER 115KV' 'HUTCHINSON ENERGY CENTER 115KV'	383			CITY OF WELLINGTON 69KV' CITY OF WINFIELD 69KV'	39.5 15.81898		-0.21224	
ERE	'HUTCHINSON ENERGY CENTER 115KV'	383			'EVANS ENERGY CENTER 138KV'	15.81898		-0.2128	
ERE	HUTCHINSON ENERGY CENTER 115KV HUTCHINSON ENERGY CENTER 115KV	383		WERE	WACO 138KV	17.414		-0.21384	
ERE	HUTCHINSON ENERGY CENTER 115KV HUTCHINSON ENERGY CENTER 69KV	383			CHANUTE 69KV	17.414 34.903		-0.21131	
ERE	HUTCHINSON ENERGY CENTER 69KV	67			CHANUTE 69KV CITY OF AUGUSTA 69KV	24.3		-0.21478	
ERE	HUTCHINSON ENERGY CENTER 69KV	67		WERE	CITY OF ADGUSTA USKV	19.902		-0.21502	
ERE	HUTCHINSON ENERGY CENTER 69KV	67			CITY OF WELLINGTON 69KV	39.5		-0.21203	
ERE	HUTCHINSON ENERGY CENTER 69KV	67		WERE	CITY OF WINFIELD 69KV	15.81898		-0.21203	
ERE	HUTCHINSON ENERGY CENTER 69KV	67			'EVANS ENERGY CENTER 138KV'	13.01090		-0.21255	
ERE	HUTCHINSON ENERGY CENTER 69KV	67			WACO 138KV	17,414		-0.2111	

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