



Screening Study SPP-DPT-2015-006

10/29/2015

SPP Engineering, Transmission Service Studies



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Executive Summary

Kansas Municipal Energy Agency has requested a screening study to determine the impacts on SPP and first-tier third party facilities due to a Delivery Point Transfer of 3 MW. Third party includes both first-tier neighboring facilities outside SPP and Transmission Owner facilities within SPP that are not under the SPP OATT. The service type requested for this screening study is Delivery Point Transfer (DPT). The period of the service requested is from 1/1/2016 to 5/1/2027.

The principal objective of this study is to identify system problems and potential system modifications necessary to facilitate the DPT request while maintaining system reliability. The DPT request was studied using two system scenarios. The service was modeled by a transfer from WERE to WFEC. The two scenarios were studied to capture system limitations caused or impacted by the requested service. An analysis was conducted on the planning horizon.

The requested service does not significantly impact facilities on the SPP system. Tables 1 and 2 summarize the results of the screening study analysis for the new source location for the scenarios listed in the table. Table 1 lists SPP and first-tier third party thermal transfer limitations identified. Table 2 lists SPP and first-tier third party voltage transfer limitations identified. Table 3 lists the network upgrades required to mitigate the limitations impacted by this request. Table 4 lists the potential redispatch relief pairs to prevent deferral of service, if applicable.

Introduction

Kansas Municipal Energy Agency has requested a screening study to determine the impacts on SPP and first-tier third party facilities for a Delivery Point Transfer of 3 MW. The principal objective of this study is to identify the constraints on the SPP and first-tier third party transmission systems that may limit the requested service and to determine the potential least cost solutions required to alleviate the limiting facilities.

This study includes steady-state contingency analysis (PSS/E function ACCC). The steady-state analysis considers the impact of the request on transmission line and transformer loadings, and bus voltages for outages of single transmission lines, transformers, and generating units, and selected multiple transmission lines and transformers on the SPP and first-tier third party systems.

The DPT request was studied using two system scenarios. The service was modeled by a transfer from WERE to WFEC. Two scenarios were studied to capture the system limitations caused or impacted by the requested service. Scenario 0 includes projected usage of transmission service included in the SPP 2014 Series Cases. Scenario 5 includes transmission service not already included in the SPP 2014 Series Cases.

Study Methodology

Description

The facility study 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 performed to ensure current SPP Criteria and NERC Reliability Standards requirements are fulfilled. SPP conforms to NERC Reliability Standards, which provide strict requirements related to voltage violations and thermal overloads during normal conditions and during a contingency. NERC Standards require all facilities to 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 Model Development Working Group (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 105% and 90%. Transmission Owner voltage monitoring criteria is used if more restrictive. The SPS Tuco 230 kV bus voltage is monitored at 92.5% due to pre-determined system stability limitations. The WERE Wolf Creek 345 kV bus voltage is monitored at 103.5% and 98.5% due to transmission operating procedure.

The contingency set includes all SPP control area branches and ties 69 kV 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 115 kV and above. Voltage monitoring was performed for SPP control area buses 69 kV and above.

A 3 % transfer distribution factor (TDF) cutoff was applied to all SPP control area facilities. For first tier non-SPP control area facilities, a 3 % TDF cutoff was applied to AECl, AMRN (Ameren), and ENTR (Entergy) control areas. A 2 % TDF cutoff was applied to WAPA. 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.

Model Development

SPP used five seasonal models to study the 3 MW DPT request for the requested service period. The following SPP Transmission Expansion Plan 2014 Build 1 Cases were used to study the impact of the requested service on the transmission system:

- 2015/16 Winter Peak (15WP)
- 2016 Summer Peak (16SP)
- 2016/17 Winter Peak (16WP)
- 2020 Summer Peak (20SP)
- 2020/21 Winter Peak (20WP)
- 2025 Summer Peak (25SP)
- 2025/26 Winter Peak (25WP)

The Summer Peak models apply to June through September and the Winter Peak models apply to December through March.

The chosen base case models were modified to reflect the current modeling information. From the seven seasonal models, two system scenarios were developed. Scenario 0 includes projected usage of transmission included in the SPP 2014 Series Cases. Scenario 5 includes transmission not already included in the SPP 2014 Series Cases.

Transmission Request Modeling

Network Integration Transmission Service requests are modeled as Generation to Load transfers in addition to Generation to Generation transfers. Network Integration Transmission Service requests are modeled as Generation to Load transfers in addition to Generation to Generation because the requested Network Integration Transmission Service is a request to serve network load with the new designated network resource, and the impacts on Transmission System are determined accordingly. Generation to Generation transfers are accomplished by developing a post-transfer case for comparison by dispatching the request source and redispatching the request sink.

Transfer Analysis

Using the selected cases both with and without the requested transfer modeled, the PSS/E Activity ACCC was run on the cases and compared to determine the facility overloads caused or impacted by the transfer. Transfer distribution factor cutoffs (SPP and 1st-Tier) and voltage threshold (0.02

change) were applied to determine the impacted facilities. The PSS/E options chosen to conduct the analysis can be found in Appendix A.

Study Results

Study Analysis Results

Tables 1 and 2 contain the initial steady-state analysis results of the DPT. The tables are attached to the end of this report, if applicable. The tables identify the scenario and season in which the event occurred, the transfer amount studied, the facility control area location, applicable ratings of the thermal transfer limitations and voltage transfer limitations, and the loading percentage and voltage per unit (pu).

Table 1 lists the SPP and first-tier third party thermal transfer limitations caused or impacted by the 3 MW transfer for applicable scenarios. Solutions are identified for the limitations in this table.

Table 2 lists the SPP and first-tier third party voltage transfer limitations caused or impacted by the 3 MW transfer for applicable scenarios. Solutions are identified for the violations in this table.

Table 3 lists the network upgrades required to mitigate the limitations caused or impacted by this request. Engineering and construction costs are provided for assigned upgrades in this table.

Table 4 lists the potential redispatch relief pairs to prevent deferral of service.

Conclusion

The results of the screening study show that limiting constraints do not exist on the SPP system for the 3 MW DPT. No new Network Upgrades are required to support the requested transfer. Redispatch is required to mitigate impacts for which Network Upgrades have been previously approved. Potential redispatch pairs are identified in Table 4. Since no additional limitations were identified, the request will be accepted. Once the request has been confirmed, SPP will issue a service agreement.

Appendix A

PSS/E CHOICES IN RUNNING LOAD FLOW PROGRAM AND ACCC

BASE CASE SETTINGS:

- Solutions: Fixed slope decoupled Newton-Raphson solution (FDNS)
- Tap adjustment: Stepping
- Area Interchange Control: Tie lines and loads
- Var limits: Apply immediately
- Solution Options:
 - Phase shift adjustment
 - Flat start
 - Lock DC taps
 - Lock switched shunts

ACCC CASE SETTINGS:

- Solutions: AC contingency checking (ACCC)
- MW mismatch tolerance: 0.5
- System intact rating: Rate A
- Contingency case rating: Rate B
- Percent of rating: 100
- Output code: Summary
- Min flow change in overload report: 3 MW
- Excl'd cases w/ no overloads from report: YES
- Exclude interfaces from report: NO
- Perform voltage limit check: YES
- Elements in available capacity table: 60000
- Cutoff threshold for available capacity table: 99999.0
- Min. contng. Case Vltg chng for report: 0.02
- Sorted output: None
- Newton Solution:
- Tap adjustment: Stepping
- Area interchange control: Tie lines and loads (Disabled for generator outages)
- Var limits: Apply immediately
- Solution options:
 - Phase shift adjustment
 - Flat start
 - Lock DC taps
 - Lock switched shunts

Table 1 - SPP Facility Thermal Transfer Limitations

Scenario	Season	From Area	To Area	Monitored Branch Over 100% Rate B	Base Case Loading (%)	Transfer Case Loading (%)	TDF (%)	Outaged Branch Causing Overload	Upgrade Name	Solution
5	16SP	OKGE	OKGE	FPL SWITCH - WOODWARD 138KV CKT 1	125.4	126.1	38.9%	NORTHWEST - TATONGA7 345.00 345KV CKT 1	Multi - Woodward District EHV - Tatonga - Matthewson - Cimarron 345 kv	Build new 126 mile Woodward - Tatonga 345 kv circuit 2 and Tatonga - Matthewson - Cimarron 345 kv line.
5	16SP	OKGE	OKGE	FPL SWITCH - WOODWARD 138KV CKT 1	107.2	107.9	38.9%	SPSCONT-05B	Multi - Woodward District EHV - Tatonga - Matthewson - Cimarron 345 kv	Build new 126 mile Woodward - Tatonga 345 kv circuit 2 and Tatonga - Matthewson - Cimarron 345 kv line.
5	16SP	OKGE	OKGE	FPL SWITCH - WOODWARD 138KV CKT 1	106.8	107.5	38.9%	SPSCONT-04	Multi - Woodward District EHV - Tatonga - Matthewson - Cimarron 345 kv	Build new 126 mile Woodward - Tatonga 345 kv circuit 2 and Tatonga - Matthewson - Cimarron 345 kv line.
5	20SP	OKGE	OKGE	FPL SWITCH - WOODWARD 138KV CKT 1	103.5	104.2	38.5%	NORTHWEST - TATONGA7 345.00 345KV CKT 1	Multi - Woodward District EHV - Tatonga - Matthewson - Cimarron 345 kv	Build new 126 mile Woodward - Tatonga 345 kv circuit 2 and Tatonga - Matthewson - Cimarron 345 kv line.
5	20WP	OKGE	OKGE	FPL SWITCH - WOODWARD 138KV CKT 1	104.1	104.5	38.4%	NORTHWEST - TATONGA7 345.00 345KV CKT 1	Multi - Woodward District EHV - Tatonga - Matthewson - Cimarron 345 kv	Build new 126 mile Woodward - Tatonga 345 kv circuit 2 and Tatonga - Matthewson - Cimarron 345 kv line.

Table 2 - SPP Facility Voltage Transfer Limitations

Scenario	Season	Area	Monitored Bus with Violation	Post-transfer Voltage (PU)	Outaged Branch Causing Overload	Upgrade Name	Solution
			None				

Table 3 - Upgrade Requirements and Solutions Needed

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)	Estimated Engineering & Construction Cost	NTC
	None					

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

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)	Estimated Engineering & Construction Cost	NTC
	None					

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

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)
OKGE	Multi - Woodward District EHV - Tatonga - Matthewson - Cimarron 345 kV	Build new 126 mile Woodward - Tatonga 345 kV circuit 2 and Tatonga - Matthewson - Cimarron 345 kV line.	6/1/2016	3/1/2021

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

Transmission Owner	Upgrade	Solution	Earliest Date Upgrade Required (DUN)	Estimated Date of Upgrade Completion (EOC)
	None			

Table 4 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

Upgrade: Multi - Woodward District EHV - Tatonga - Matthewson - Cimarron 345

Limiting Facility: FPL SWITCH - WOODWARD 138KV CKT 1
 Direction: TO->FROM

Line Outage: NORTHWEST - TATONGA7 345.00 345KV CKT 1
 Flowgate: 2015AG1AFS41T139552OSP

Date Redispatch Needed: Starting 2020 6/1 - 10/1 Until EOC of Upgrade

Season Flowgate Identified: 2020 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount							
81649784	1.2	1.2							
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
WFEC	MORLND 138KV	116.3981	-0.37237	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.48916	2
WFEC	MORLND 138KV	116.3981	-0.37237	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.58991	2
WFEC	MORLND 138KV	116.3981	-0.37237	OKGE	CRSRDWT1 34.500 345KV	216	0.11679	-0.48916	2
WFEC	MORLND 138KV	116.3981	-0.37237	OKGE	OU SPIRIT 138KV	102	0.17438	-0.54675	2
WFEC	MORLND 138KV	116.3981	-0.37237	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.54675	2
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.46463	2
WFEC	MORLND 138KV	116.3981	-0.37237	WERE	6TH STREET 115KV	2.18	0.01299	-0.38536	3
WFEC	MORLND 138KV	116.3981	-0.37237	WERE	AEC W1 34.500 115KV	3.65	0.01946	-0.39183	3
WFEC	MORLND 138KV	116.3981	-0.37237	OKGE	AES 161KV	320	-0.00848	-0.36389	3
WFEC	MORLND 138KV	116.3981	-0.37237	WFEC	ANADARKO 138KV	363	-0.02551	-0.34686	3
WFEC	MORLND 138KV	116.3981	-0.37237	AEPW	ARSENAL HILL 138KV	509	-0.00795	-0.36442	3
WFEC	MORLND 138KV	116.3981	-0.37237	OKGE	BLKWLDW1 34.500 69KV	59.8	-0.03156	-0.34081	3
WFEC	MORLND 138KV	116.3981	-0.37237	WERE	BROWN COUNTY 115KV	1,178,005	0.01512	-0.38749	3
WFEC	MORLND 138KV	116.3981	-0.37237	AEPW	BUFFCK1 34.500 230KV	99	-0.02156	-0.35081	3
WFEC	MORLND 138KV	116.3981	-0.37237	OKGE	CANDN12 34.500 345KV	298.2	-0.02317	-0.3492	3
WFEC	MORLND 138KV	116.3981	-0.37237	WERE	CANEYWF1 0.6900 34KV	199.8	0.00523	-0.3776	3
WFEC	MORLND 138KV	116.3981	-0.37237	SWPA	CARTHAGE 161KV	20	-0.00295	-0.36942	3
WFEC	MORLND 138KV	116.3981	-0.37237	OKGE	CHSHMWV1 34.500 345KV	202	-0.02036	-0.35201	3
WFEC	MORLND 138KV	116.3981	-0.37237	WERE	CITY OF AUGUSTA 69KV	16.45	0.00889	-0.38126	3
WFEC	MORLND 138KV	116.3981	-0.37237	WERE	CITY OF BURLINGTON 69KV	9.3	0.00684	-0.37921	3
WFEC	MORLND 138KV	116.3981	-0.37237	WERE	CITY OF MULVANE 69KV	12,12568	0.01024	-0.38261	3
WFEC	MORLND 138KV	116.3981	-0.37237	WERE	CITY OF OSAGE CITY 115KV	10,271	0.01511	-0.38748	3
WFEC	MORLND 138KV	116.3981	-0.37237	WERE	CLAYGEN1 13.200 115KV	6,935849	0.01821	-0.39058	3
WFEC	MORLND 138KV	116.3981	-0.37237	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.38158	3
WFEC	MORLND 138KV	116.3981	-0.37237	AEPW	COGENTRIX 345KV	512,858	-0.01317	-0.3592	3
WFEC	MORLND 138KV	116.3981	-0.37237	AEPW	COMANCHE 138KV	170	-0.01853	-0.35384	3
WFEC	MORLND 138KV	116.3981	-0.37237	AEPW	COMANCHE 69KV	71	-0.01992	-0.35245	3
WFEC	MORLND 138KV	116.3981	-0.37237	WFEC	COMMANCHE CO SUB 34KV	100	-0.02584	-0.34853	3
WFEC	MORLND 138KV	116.3981	-0.37237	AEPW	EASTMAN 138KV	310,6949	-0.00866	-0.36371	3
WFEC	MORLND 138KV	116.3981	-0.37237	WERE	ELK RIVER 345KV	150	0.00583	-0.3782	3
WFEC	MORLND 138KV	116.3981	-0.37237	WERE	EMPORIA ENERGY CENTER 345KV	324,437	0.01558	-0.38795	3
WFEC	MORLND 138KV	116.3981	-0.37237	WERE	EVANS ENERGY CENTER 138KV	666	0.01645	-0.38882	3
WFEC	MORLND 138KV	116.3981	-0.37237	AEPW	FITZHUGH 161KV	128	-0.00761	-0.36476	3
WFEC	MORLND 138KV	116.3981	-0.37237	AEPW	FLINT CREEK 161KV	528	-0.00753	-0.36484	3
WFEC	MORLND 138KV	116.3981	-0.37237	WERE	FR2E1WF1 0.6900 34KV	100,2401	0.0017	-0.37407	3
WFEC	MORLND 138KV	116.3981	-0.37237	WERE	FR2E2WF1 0.6900 34KV	100,2401	0.0017	-0.37407	3
WFEC	MORLND 138KV	116.3981	-0.37237	WERE	FR2W1WF1 0.6900 34KV	130,4464	0.0017	-0.37407	3
WFEC	MORLND 138KV	116.3981	-0.37237	WERE	FR2W2WF1 0.6900 34KV	129,0734	0.0017	-0.37407	3
WFEC	MORLND 138KV	116.3981	-0.37237	AEPW	G10-055 4.1600 13KV	3	-0.01326	-0.35911	3
WFEC	MORLND 138KV	116.3981	-0.37237	WERE	G11_057_3 0.6900 34KV	200	-0.00846	-0.36391	3
WFEC	MORLND 138KV	116.3981	-0.37237	GRDA	G13-028ST 17.500 345KV	495,0017	-0.00845	-0.36392	3
WFEC	MORLND 138KV	116.3981	-0.37237	WERE	GILL ENERGY CENTER 138KV	180	0.01133	-0.3837	3
WFEC	MORLND 138KV	116.3981	-0.37237	OKGE	GRADY CO SUB 345KV	199	-0.02254	-0.34983	3
WFEC	MORLND 138KV	116.3981	-0.37237	GRDA	GRDA1 345KV	450,8949	-0.00842	-0.36395	3
WFEC	MORLND 138KV	116.3981	-0.37237	OKGE	HORSESHOE LAKE 138KV	316,4512	-0.02287	-0.3495	3
WFEC	MORLND 138KV	116.3981	-0.37237	OKGE	HORSESHOE LAKE 69KV	16	-0.02249	-0.34988	3
WFEC	MORLND 138KV	116.3981	-0.37237	WFEC	HUGO 138KV	440	-0.01348	-0.35899	3
WFEC	MORLND 138KV	116.3981	-0.37237	SWPA	JBOGENE1 13.800 69KV	82,72202	-0.00122	-0.37115	3
WFEC	MORLND 138KV	116.3981	-0.37237	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.38805	3
WFEC	MORLND 138KV	116.3981	-0.37237	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01559	-0.38796	3
WFEC	MORLND 138KV	116.3981	-0.37237	OKGE	KAYWIND12 0.7000 34KV	280	-0.0058	-0.36657	3
WFEC	MORLND 138KV	116.3981	-0.37237	SWPA	KENNETT 69KV	19.14	-0.00033	-0.37204	3
WFEC	MORLND 138KV	116.3981	-0.37237	AEPW	KNOXLEE 138KV	333,3125	-0.0086	-0.36377	3
WFEC	MORLND 138KV	116.3981	-0.37237	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01302	-0.38539	3
WFEC	MORLND 138KV	116.3981	-0.37237	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01328	-0.38565	3
WFEC	MORLND 138KV	116.3981	-0.37237	AEPW	LEBROCK 345KV	227,7492	-0.00864	-0.36373	3
WFEC	MORLND 138KV	116.3981	-0.37237	SWPA	MALDEN 69KV	5,978	-0.00002	-0.37235	3
WFEC	MORLND 138KV	116.3981	-0.37237	OKGE	MCCLAIN 138KV	465.6	-0.02377	-0.3486	3
WFEC	MORLND 138KV	116.3981	-0.37237	OKGE	MCCLAIN4 138.00 138KV	28	-0.02377	-0.3486	3
WFEC	MORLND 138KV	116.3981	-0.37237	WFEC	MEERS CO SUB 138KV	74.25	-0.02584	-0.34653	3
WFEC	MORLND 138KV	116.3981	-0.37237	OKGE	MNCWWD31 34.500 345KV	100	-0.02254	-0.34983	3
WFEC	MORLND 138KV	116.3981	-0.37237	WERE	MUSCOTA2 69.000 69KV	2.5	0.01303	-0.3854	3
WFEC	MORLND 138KV	116.3981	-0.37237	OKGE	MUSKOGEE 345KV	1542.5	-0.01276	-0.35961	3
WFEC	MORLND 138KV	116.3981	-0.37237	OKGE	MUSTANG 138KV	221	-0.02472	-0.34765	3
WFEC	MORLND 138KV	116.3981	-0.37237	AEPW	NORTHEASTERN STATION 138KV	851	-0.01064	-0.36173	3
WFEC	MORLND 138KV	116.3981	-0.37237	AEPW	NORTHEASTERN STATION 345KV	460	-0.01283	-0.35954	3
WFEC	MORLND 138KV	116.3981	-0.37237	AEPW	OEC 345KV	1230	-0.01198	-0.36039	3
WFEC	MORLND 138KV	116.3981	-0.37237	OMPA	OMPA-PONCA CITY 69KV	35,63696	-0.02695	-0.34542	3
WFEC	MORLND 138KV	116.3981	-0.37237	OKGE	ORIGIN21 0.6900 34KV	149	-0.01704	-0.35533	3
WFEC	MORLND 138KV	116.3981	-0.37237	AEPW	PIRKEY GENERATION 138KV	675	-0.00864	-0.36373	3
WFEC	MORLND 138KV	116.3981	-0.37237	SWPA	POPLAR BLUFF 161KV	29.76	0.00033	-0.3727	3
WFEC	MORLND 138KV	116.3981	-0.37237	OKGE	REDBUD 345KV	1214	-0.02185	-0.35052	3
WFEC	MORLND 138KV	116.3981	-0.37237	AEPW	RIVERSIDE STATION 138KV	908,0001	-0.01313	-0.35924	3
WFEC	MORLND 138KV	116.3981	-0.37237	AEPW	ROARK1 0.7000 34KV	99	-0.02156	-0.35081	3

Table 4 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

GRDA	BOOMER 69KV	24	-0.02372	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1981	6
WERE	BPU - CITY OF MCPHERSON 115KV	238	0.02348	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.19406	6
WERE	BROWN COUNTY 115KV	4.321995	0.01512	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20242	6
WERE	CITY OF AUGUSTA 69KV	10.89	0.00889	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20865	6
WERE	CITY OF MULVANE 69KV	3.66432	0.01024	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.2073	6
WERE	CLAYGEN1 13.200 115KV	22.73415	0.01821	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.19933	6
WERE	COFFEY CO SUB 34KV	200	0.00921	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20833	6
GRDA	COFFGEN6_1 12.470 69KV	53	-0.00597	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18035	6
GRDA	COFFGEN6_1 12.470 69KV	53	-0.00597	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18035	6
AEPW	COGENTRIX 345KV	381.142	-0.01317	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18755	6
AEPW	COGENTRIX 345KV	381.142	-0.01317	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18755	6
AEPW	EASTMAN 138KV	174.3151	-0.00866	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18304	6
AEPW	EASTMAN 138KV	174.3151	-0.00866	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18304	6
AEPW	ELKINS GENERATOR 69KV	60	-0.00818	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18256	6
AEPW	ELKINS GENERATOR 69KV	60	-0.00818	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18256	6
WERE	EMPORIA ENERGY CENTER 345KV	305.563	0.01558	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20196	6
WERE	EVANS ENERGY CENTER 138KV	164	0.01645	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20109	6
AEPW	FITZHUGH 161KV	37	-0.00761	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18199	6
AEPW	FITZHUGH 161KV	37	-0.00761	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18199	6
AEPW	FULTON 115KV	153	-0.0093	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18368	6
AEPW	FULTON 115KV	153	-0.0093	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18368	6
WERE	G11_057_3 0.6900 34KV	151.4	-0.00846	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18284	6
WERE	G11_057_3 0.6900 34KV	151.4	-0.00846	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18284	6
OMPA	G12-041 18.000 345KV	121.5	-0.00942	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1838	6
OMPA	G12-041 18.000 345KV	121.5	-0.00942	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1838	6
GRDA	G13-028ST 17.500 345KV	21.39832	-0.00845	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18283	6
GRDA	G13-028ST 17.500 345KV	21.39832	-0.00845	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18283	6
AEPW	G14-074 345.00 345KV	200	0.02609	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.19145	6
GRDA	GRDA1 161KV	490	-0.00891	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18329	6
GRDA	GRDA1 161KV	490	-0.00891	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18329	6
GRDA	GRDA1 345KV	69.11514	-0.00842	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1828	6
GRDA	GRDA1 345KV	69.11514	-0.00842	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1828	6
OKGE	HORSESHOE LAKE 138KV	558.5488	-0.02287	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19725	6
OKGE	HORSESHOE LAKE 138KV	558.5488	-0.02287	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19725	6
WERE	HUTCHINSON ENERGY CENTER 115KV	344	0.02354	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.194	6
WERE	HUTCHINSON ENERGY CENTER 69KV	56	0.02359	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.19395	6
WERE	JEFFREY ENERGY CENTER 230KV	55	0.01568	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20186	6
WERE	JEFFREY ENERGY CENTER 345KV	110	0.01559	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20195	6
AEPW	KNOXLEE 138KV	135.6875	-0.0086	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18298	6
AEPW	KNOXLEE 138KV	135.6875	-0.0086	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18298	6
WERE	LAWRENCE ENERGY CENTER 115KV	11.00001	0.01302	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20452	6
WERE	LAWRENCE ENERGY CENTER 230KV	15	0.01328	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20426	6
AEPW	LEBROCK 345KV	282.2508	-0.00864	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18302	6
AEPW	LEBROCK 345KV	282.2508	-0.00864	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18302	6
AEPW	LIEBERMAN 138KV	242	-0.00808	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18246	6
AEPW	LIEBERMAN 138KV	242	-0.00808	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18246	6
AEPW	LONESTAR POWER PLANT 69KV	50	-0.00911	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18349	6
AEPW	LONESTAR POWER PLANT 69KV	50	-0.00911	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18349	6
WERE	MARSHGEN1 0.6900 34KV	73.8	0.0167	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20084	6
OKGE	MCCLAIN 138KV	54.40001	-0.02377	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19815	6
OKGE	MCCLAIN 138KV	54.40001	-0.02377	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19815	6
WERE	MUSCOTA2 69.000 69KV	3.005	0.01303	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20451	6
OKGE	MUSKOGEE 345KV	37.5	-0.01276	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18714	6
OKGE	MUSKOGEE 345KV	37.5	-0.01276	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18714	6
OKGE	MUSTANG 138KV	149.5	-0.02472	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1991	6
OKGE	MUSTANG 138KV	149.5	-0.02472	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1991	6
OKGE	MUSTANG 69KV	106	-0.02613	OKGE	OU SPIRIT 138KV	102	0.17438	-0.20051	6
OKGE	MUSTANG 69KV	106	-0.02613	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.20051	6
AEPW	NORTH MARSHALL 69KV	5	-0.00855	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18293	6
AEPW	NORTH MARSHALL 69KV	5	-0.00855	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18293	6
AEPW	NORTHEASTERN STATION 345KV	481	-0.01283	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18721	6
AEPW	NORTHEASTERN STATION 345KV	481	-0.01283	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18721	6
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.18336	6
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	OKGE	CRSRD21 34.500 345KV	216	0.11679	-0.18336	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	G12-033 0.6500 34KV	70	-0.06575	-0.18134	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	RKYRDGW1-1 34.500 138KV	150	-0.04273	-0.20436	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	WTH WIND 34.500 34KV	147	-0.04923	-0.19786	6
OMPA	OMPA-PAWHUSKA NORTHEAST 138KV	6.7	-0.01512	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1895	6
OMPA	OMPA-PAWHUSKA NORTHEAST 138KV	6.7	-0.01512	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1895	6
OMPA	OMPA-PONCA CITY 69KV	105.486	-0.02695	OKGE	OU SPIRIT 138KV	102	0.17438	-0.20133	6
OMPA	OMPA-PONCA CITY 69KV	105.486	-0.02695	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.20133	6
OKGE	REDBUD 345KV	133	-0.02185	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19623	6
OKGE	REDBUD 345KV	133	-0.02185	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19623	6
AEPW	RIVERSIDE STATION 138KV	139	-0.01313	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18751	6
AEPW	RIVERSIDE STATION 138KV	139	-0.01313	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18751	6
GRDA	SALINA 161KV	129	-0.00875	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18313	6
GRDA	SALINA 161KV	129	-0.00875	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18313	6
WERE	SALINA MAIN 115KV	7.18	0.02128	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.19626	6

Table 4 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

OKGE	SEMINOLE 138KV	272	-0.01946	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19384	6
OKGE	SEMINOLE 138KV	272	-0.01946	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19384	6
OKGE	SEMINOLE 345KV	559.6	-0.01959	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19397	6
OKGE	SEMINOLE 345KV	559.6	-0.01959	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19397	6
OKGE	SMITH COGEN 138KV	16	-0.02447	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19885	6
OKGE	SMITH COGEN 138KV	16	-0.02447	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19885	6
OKGE	SOONER 138KV	5	-0.02319	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19757	6
OKGE	SOONER 138KV	5	-0.02319	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19757	6
OKGE	SOONER 345KV	3	-0.01726	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19164	6
OKGE	SOONER 345KV	3	-0.01726	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19164	6
WERE	SOUTH SENECA 115KV	8.4	0.0157	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20184	6
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02537	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19975	6
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02537	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19975	6
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.022	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19638	6
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.022	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19638	6
WERE	TECUMSEH ENERGY CENTER 115KV	7	0.01408	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20346	6
OKGE	TINKER 5G 138KV	62	-0.02233	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19671	6
OKGE	TINKER 5G 138KV	62	-0.02233	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19671	6
AEPW	TONTITOWN 161KV	301	-0.00815	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18253	6
AEPW	TONTITOWN 161KV	301	-0.00815	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18253	6
AEPW	TULSA POWER STATION 138KV	307	-0.01296	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18734	6
AEPW	TULSA POWER STATION 138KV	307	-0.01296	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18734	6
AEPW	TURK 138KV	34	-0.01042	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1848	6
AEPW	TURK 138KV	34	-0.01042	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1848	6
AEPW	WELEETKA 138KV	158	-0.01546	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18984	6
AEPW	WELEETKA 138KV	158	-0.01546	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18984	6
AEPW	WELSH 345KV	528	-0.00959	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18397	6
AEPW	WELSH 345KV	528	-0.00959	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18397	6
AEPW	WILKES 138KV	148	-0.009	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18338	6
AEPW	WILKES 138KV	148	-0.009	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18338	6
AEPW	WILKES 345KV	4	-0.00884	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18322	6
AEPW	WILKES 345KV	4	-0.00884	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18322	6
WERE	BROWN COUNTY 115KV	4.321995	0.01512	OKGE	OU SPIRIT 138KV	102	0.17438	-0.15926	7
WERE	BROWN COUNTY 115KV	4.321995	0.01512	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.15926	7
WERE	CC5SHAR1 12.470 69KV	10	0.00747	OKGE	OU SPIRIT 138KV	102	0.17438	-0.16691	7
WERE	CC5SHAR1 12.470 69KV	10	0.00747	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.16691	7
WERE	CC6SHAR1 12.470 69KV	10	0.00747	OKGE	OU SPIRIT 138KV	102	0.17438	-0.16691	7
WERE	CC6SHAR1 12.470 69KV	10	0.00747	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.16691	7
WERE	CHANUTE 69KV	37.8	0.00104	OKGE	OU SPIRIT 138KV	102	0.17438	-0.17334	7
WERE	CHANUTE 69KV	37.8	0.00104	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.17334	7
WERE	CITY OF AUGUSTA 69KV	10.89	0.00889	OKGE	OU SPIRIT 138KV	102	0.17438	-0.16549	7
WERE	CITY OF AUGUSTA 69KV	10.89	0.00889	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.16549	7
WERE	CITY OF BURLINGTON 69KV	3.2	0.00684	OKGE	OU SPIRIT 138KV	102	0.17438	-0.16754	7
WERE	CITY OF BURLINGTON 69KV	3.2	0.00684	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.16754	7
WERE	CITY OF BURLINGTON 69KV	3.2	0.00684	OKGE	OU SPIRIT 138KV	102	0.17438	-0.17334	7
WERE	CITY OF BURLINGTON 69KV	3.2	0.00684	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.17334	7
WERE	CITY OF ERIE 69KV	20	0.00104	OKGE	OU SPIRIT 138KV	102	0.17438	-0.17221	7
WERE	CITY OF ERIE 69KV	20	0.00104	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.17221	7
WERE	CITY OF IOLA 69KV	25.6815	0.00217	OKGE	OU SPIRIT 138KV	102	0.17438	-0.16414	7
WERE	CITY OF IOLA 69KV	25.6815	0.00217	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.16414	7
WERE	CITY OF MULVANE 69KV	3.66432	0.01024	OKGE	OU SPIRIT 138KV	102	0.17438	-0.16414	7
WERE	CITY OF MULVANE 69KV	3.66432	0.01024	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.16414	7
WERE	CLAYGEN1 13.200 115KV	22.73415	0.01821	OKGE	OU SPIRIT 138KV	102	0.17438	-0.15617	7
WERE	CLAYGEN1 13.200 115KV	22.73415	0.01821	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.15617	7
WERE	COFFEY CO SUB 34KV	200	0.00921	OKGE	OU SPIRIT 138KV	102	0.17438	-0.16517	7
WERE	COFFEY CO SUB 34KV	200	0.00921	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.16517	7
WERE	EMPORIA ENERGY CENTER 345KV	305.563	0.01558	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1588	7
WERE	EMPORIA ENERGY CENTER 345KV	305.563	0.01558	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1588	7
WERE	EVANS ENERGY CENTER 138KV	164	0.01645	OKGE	OU SPIRIT 138KV	102	0.17438	-0.15793	7
WERE	EVANS ENERGY CENTER 138KV	164	0.01645	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.15793	7
SWPA	JBOGENE1 13.800 69KV	188.078	-0.00122	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1756	7
SWPA	JBOGENE1 13.800 69KV	188.078	-0.00122	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1756	7
WERE	JEFFREY ENERGY CENTER 230KV	55	0.01568	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1587	7
WERE	JEFFREY ENERGY CENTER 230KV	55	0.01568	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1587	7
WERE	JEFFREY ENERGY CENTER 345KV	110	0.01559	OKGE	OU SPIRIT 138KV	102	0.17438	-0.15879	7
WERE	JEFFREY ENERGY CENTER 345KV	110	0.01559	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.15879	7
SWPA	KENNETT 69KV	15.16	-0.00033	OKGE	OU SPIRIT 138KV	102	0.17438	-0.17471	7
SWPA	KENNETT 69KV	15.16	-0.00033	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.17471	7
WERE	LAWRENCE ENERGY CENTER 115KV	11.00001	0.01302	OKGE	OU SPIRIT 138KV	102	0.17438	-0.16136	7
WERE	LAWRENCE ENERGY CENTER 115KV	11.00001	0.01302	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.16136	7
WERE	LAWRENCE ENERGY CENTER 230KV	15	0.01328	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1611	7
WERE	LAWRENCE ENERGY CENTER 230KV	15	0.01328	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1611	7
SWPA	MALDEN 69KV	8.222	-0.00002	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1744	7
SWPA	MALDEN 69KV	8.222	-0.00002	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1744	7

Table 4 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

AEPW	SOUTHWESTERN STATION 138KV	297	-0.02537	WERE	EMPORIA ENERGY CENTER 345KV	324.437	0.01558	-0.04095	28
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02537	WERE	EVANS ENERGY CENTER 138KV	666	0.01645	-0.04182	28
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02537	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.04105	28
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02537	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01559	-0.04096	28
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02537	WERE	S ALMA 3 115.00 115KV	11.6	0.01596	-0.04133	28
WFEC	ANADARKO 138KV	284	-0.02551	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01408	-0.03959	29
WFEC	ANADARKO 69KV	70	-0.02726	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01302	-0.04028	29
GRDA	BOOMER 69KV	24	-0.02372	WERE	EMPORIA ENERGY CENTER 345KV	324.437	0.01558	-0.0393	29
GRDA	BOOMER 69KV	24	-0.02372	WERE	EVANS ENERGY CENTER 138KV	666	0.01645	-0.04017	29
GRDA	BOOMER 69KV	24	-0.02372	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.0394	29
GRDA	BOOMER 69KV	24	-0.02372	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01559	-0.03931	29
GRDA	BOOMER 69KV	24	-0.02372	WERE	S ALMA 3 115.00 115KV	11.6	0.01596	-0.03968	29
OKGE	HORSESHOE LAKE 138KV	558.5488	-0.02287	WERE	EVANS ENERGY CENTER 138KV	666	0.01645	-0.03932	29
OKGE	MCCLAIN 138KV	54.40001	-0.02377	WERE	EMPORIA ENERGY CENTER 345KV	324.437	0.01558	-0.03935	29
OKGE	MCCLAIN 138KV	54.40001	-0.02377	WERE	EVANS ENERGY CENTER 138KV	666	0.01645	-0.04022	29
OKGE	MCCLAIN 138KV	54.40001	-0.02377	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.03945	29
OKGE	MCCLAIN 138KV	54.40001	-0.02377	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01559	-0.03936	29
OKGE	MCCLAIN 138KV	54.40001	-0.02377	WERE	S ALMA 3 115.00 115KV	11.6	0.01596	-0.03973	29
OKGE	MUSTANG 138KV	149.5	-0.02472	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01511	-0.03983	29
OKGE	MUSTANG 138KV	149.5	-0.02472	WERE	EMPORIA ENERGY CENTER 345KV	324.437	0.01558	-0.0403	29
OKGE	MUSTANG 138KV	149.5	-0.02472	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.0404	29
OKGE	MUSTANG 138KV	149.5	-0.02472	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01559	-0.04031	29
OKGE	MUSTANG 69KV	106	-0.02613	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01302	-0.03915	29
OKGE	MUSTANG 69KV	106	-0.02613	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01328	-0.03941	29
OKGE	MUSTANG 69KV	106	-0.02613	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01408	-0.04021	29
OMPA	OMPA-PONCA CITY 69KV	105.486	-0.02695	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01302	-0.03997	29
OMPA	OMPA-PONCA CITY 69KV	105.486	-0.02695	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01328	-0.04023	29
OKGE	SMITH COGEN 138KV	16	-0.02447	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01511	-0.03958	29
OKGE	SMITH COGEN 138KV	16	-0.02447	WERE	EMPORIA ENERGY CENTER 345KV	324.437	0.01558	-0.04005	29
OKGE	SMITH COGEN 138KV	16	-0.02447	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.04015	29
OKGE	SMITH COGEN 138KV	16	-0.02447	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01559	-0.04006	29
OKGE	SMITH COGEN 138KV	16	-0.02447	WERE	S ALMA 3 115.00 115KV	11.6	0.01596	-0.04043	29
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02537	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01511	-0.04048	29
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02537	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01408	-0.03945	29
WFEC	ANADARKO 138KV	284	-0.02551	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01302	-0.03853	30
WFEC	ANADARKO 138KV	284	-0.02551	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01328	-0.03879	30
WFEC	ANADARKO 69KV	70	-0.02726	WERE	GILL ENERGY CENTER 138KV	180	0.01133	-0.03859	30
GRDA	BOOMER 69KV	24	-0.02372	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01511	-0.03883	30
OKGE	HORSESHOE LAKE 138KV	558.5488	-0.02287	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01511	-0.03798	30
OKGE	HORSESHOE LAKE 138KV	558.5488	-0.02287	WERE	EMPORIA ENERGY CENTER 345KV	324.437	0.01558	-0.03845	30
OKGE	HORSESHOE LAKE 138KV	558.5488	-0.02287	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.03855	30
OKGE	HORSESHOE LAKE 138KV	558.5488	-0.02287	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01559	-0.03846	30
OKGE	HORSESHOE LAKE 138KV	558.5488	-0.02287	WERE	S ALMA 3 115.00 115KV	11.6	0.01596	-0.03883	30
OKGE	MCCLAIN 138KV	54.40001	-0.02377	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01511	-0.03888	30
OKGE	MUSTANG 138KV	149.5	-0.02472	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01328	-0.038	30
OKGE	MUSTANG 138KV	149.5	-0.02472	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01408	-0.0388	30
OMPA	OMPA-PONCA CITY 69KV	105.486	-0.02695	WERE	GILL ENERGY CENTER 138KV	180	0.01133	-0.03828	30
OKGE	REDBUD 345KV	133	-0.02185	WERE	EVANS ENERGY CENTER 138KV	666	0.01645	-0.0383	30
OKGE	SMITH COGEN 138KV	16	-0.02447	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01408	-0.03855	30
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02537	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01302	-0.03839	30
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02537	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01328	-0.03865	30
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.022	WERE	EVANS ENERGY CENTER 138KV	666	0.01645	-0.03845	30
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.022	WERE	S ALMA 3 115.00 115KV	11.6	0.01596	-0.03796	30
OKGE	TINKER 5G 138KV	62	-0.02233	WERE	EMPORIA ENERGY CENTER 345KV	324.437	0.01558	-0.03791	30
OKGE	TINKER 5G 138KV	62	-0.02233	WERE	EVANS ENERGY CENTER 138KV	666	0.01645	-0.03878	30
OKGE	TINKER 5G 138KV	62	-0.02233	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.03801	30

Table 4 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

OKGE	TINKER 5G 138KV	62	-0.02233	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01559	-0.03792	30
OKGE	TINKER 5G 138KV	62	-0.02233	WERE	S ALMA 3 115.00 115KV	11.6	0.01596	-0.03829	30
WFEC	ANADARKO 138KV	284	-0.02551	WERE	GILL ENERGY CENTER 138KV	180	0.01133	-0.03684	31
WFEC	ANADARKO 69KV	70	-0.02726	WERE	CITY OF MULVANE 69KV	12.12568	0.01024	-0.0375	31
GRDA	BOOMER 69KV	24	-0.02372	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01302	-0.03674	31
GRDA	BOOMER 69KV	24	-0.02372	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01328	-0.037	31
GRDA	BOOMER 69KV	24	-0.02372	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01408	-0.0378	31
OKGE	HORSESHOE LAKE 138KV	558.5488	-0.02287	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01408	-0.03695	31
OKGE	MCCLAIN 138KV	54.40001	-0.02377	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01302	-0.03679	31
OKGE	MCCLAIN 138KV	54.40001	-0.02377	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01328	-0.03705	31
OKGE	MCCLAIN 138KV	54.40001	-0.02377	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01408	-0.03785	31
OKGE	MUSTANG 138KV	149.5	-0.02472	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01302	-0.03774	31
OKGE	MUSTANG 69KV	106	-0.02613	WERE	GILL ENERGY CENTER 138KV	180	0.01133	-0.03746	31
OMPA	OMPA-PONCA CITY 69KV	105.486	-0.02695	WERE	CITY OF MULVANE 69KV	12.12568	0.01024	-0.03719	31
OKGE	REDBUD 345KV	133	-0.02185	WERE	EMPORIA ENERGY CENTER 345KV	324.437	0.01558	-0.03743	31
OKGE	REDBUD 345KV	133	-0.02185	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.03753	31
OKGE	REDBUD 345KV	133	-0.02185	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01559	-0.03744	31
OKGE	REDBUD 345KV	133	-0.02185	WERE	S ALMA 3 115.00 115KV	11.6	0.01596	-0.03781	31
OKGE	SMITH COGEN 138KV	16	-0.02447	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01302	-0.03749	31
OKGE	SMITH COGEN 138KV	16	-0.02447	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01328	-0.03775	31
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02537	WERE	GILL ENERGY CENTER 138KV	180	0.01133	-0.0367	31
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.022	WERE	EMPORIA ENERGY CENTER 345KV	324.437	0.01558	-0.03758	31
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.022	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.03768	31
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.022	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01559	-0.03759	31
WFEC	ANADARKO 138KV	284	-0.02551	WERE	CITY OF MULVANE 69KV	12.12568	0.01024	-0.03575	32
WFEC	ANADARKO 69KV	70	-0.02726	WERE	CITY OF AUGUSTA 69KV	16.45	0.00889	-0.03615	32
WFEC	ANADARKO 69KV	70	-0.02726	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.03647	32
WFEC	ANADARKO 69KV	70	-0.02726	WERE	WAVERGEN1 0.6900 34KV	101	0.00921	-0.03647	32
OKGE	HORSESHOE LAKE 138KV	558.5488	-0.02287	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01302	-0.03589	32
OKGE	HORSESHOE LAKE 138KV	558.5488	-0.02287	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01328	-0.03615	32
OKGE	MUSTANG 138KV	149.5	-0.02472	WERE	GILL ENERGY CENTER 138KV	180	0.01133	-0.03605	32
OKGE	MUSTANG 69KV	106	-0.02613	WERE	CITY OF MULVANE 69KV	12.12568	0.01024	-0.03637	32
OMPA	OMPA-PONCA CITY 69KV	105.486	-0.02695	WERE	CITY OF AUGUSTA 69KV	16.45	0.00889	-0.03584	32
OMPA	OMPA-PONCA CITY 69KV	105.486	-0.02695	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.03616	32
OMPA	OMPA-PONCA CITY 69KV	105.486	-0.02695	WERE	WAVERGEN1 0.6900 34KV	101	0.00921	-0.03616	32
OKGE	REDBUD 345KV	133	-0.02185	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01408	-0.03593	32
OKGE	SEMINOLE 138KV	272	-0.01946	WERE	EVANS ENERGY CENTER 138KV	666	0.01645	-0.03591	32
OKGE	SEMINOLE 345KV	559.6	-0.01959	WERE	EVANS ENERGY CENTER 138KV	666	0.01645	-0.03604	32
OKGE	SEMINOLE 345KV	559.6	-0.01959	WERE	S ALMA 3 115.00 115KV	11.6	0.01596	-0.03555	32
OKGE	SMITH COGEN 138KV	16	-0.02447	WERE	GILL ENERGY CENTER 138KV	180	0.01133	-0.0358	32
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02537	WERE	CITY OF MULVANE 69KV	12.12568	0.01024	-0.03561	32
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.022	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01408	-0.03608	32
OKGE	TINKER 5G 138KV	62	-0.02233	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01328	-0.03561	32
OKGE	TINKER 5G 138KV	62	-0.02233	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01408	-0.03641	32
WFEC	ANADARKO 138KV	284	-0.02551	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.03472	33
WFEC	ANADARKO 138KV	284	-0.02551	WERE	WAVERGEN1 0.6900 34KV	101	0.00921	-0.03472	33
GRDA	BOOMER 69KV	24	-0.02372	WERE	GILL ENERGY CENTER 138KV	180	0.01133	-0.03505	33
OKGE	MCCLAIN 138KV	54.40001	-0.02377	WERE	GILL ENERGY CENTER 138KV	180	0.01133	-0.0351	33
OKGE	MUSTANG 138KV	149.5	-0.02472	WERE	CITY OF MULVANE 69KV	12.12568	0.01024	-0.03496	33
OKGE	MUSTANG 69KV	106	-0.02613	WERE	CITY OF AUGUSTA 69KV	16.45	0.00889	-0.03502	33
OKGE	MUSTANG 69KV	106	-0.02613	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.03534	33
OKGE	MUSTANG 69KV	106	-0.02613	WERE	WAVERGEN1 0.6900 34KV	101	0.00921	-0.03534	33
OKGE	REDBUD 345KV	133	-0.02185	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01302	-0.03487	33
OKGE	REDBUD 345KV	133	-0.02185	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01328	-0.03513	33
OKGE	SEMINOLE 138KV	272	-0.01946	WERE	EMPORIA ENERGY CENTER 345KV	324.437	0.01558	-0.03504	33
OKGE	SEMINOLE 138KV	272	-0.01946	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.03514	33
OKGE	SEMINOLE 138KV	272	-0.01946	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01559	-0.03505	33
OKGE	SEMINOLE 138KV	272	-0.01946	WERE	S ALMA 3 115.00 115KV	11.6	0.01596	-0.03542	33
OKGE	SEMINOLE 345KV	559.6	-0.01959	WERE	EMPORIA ENERGY CENTER 345KV	324.437	0.01558	-0.03517	33
OKGE	SEMINOLE 345KV	559.6	-0.01959	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.03527	33
OKGE	SEMINOLE 345KV	559.6	-0.01959	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01559	-0.03518	33
OKGE	SMITH COGEN 138KV	16	-0.02447	WERE	CITY OF MULVANE 69KV	12.12568	0.01024	-0.03471	33
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02537	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.03458	33
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02537	WERE	WAVERGEN1 0.6900 34KV	101	0.00921	-0.03458	33
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.022	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01302	-0.03502	33

Table 4 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	BROWN COUNTY 115KV	5.5	0.01587	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15728	7
WERE	CC5SHAR1 12.470 69KV	10	0.00802	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16513	7
WERE	CC5SHAR1 12.470 69KV	10	0.00802	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16513	7
WERE	CC6SHAR1 12.470 69KV	10	0.00802	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16513	7
WERE	CC6SHAR1 12.470 69KV	10	0.00802	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16513	7
WERE	CHANUTE 69KV	37.8	0.00156	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17159	7
WERE	CHANUTE 69KV	37.8	0.00156	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17159	7
WERE	CITY OF AUGUSTA 69KV	10.89	0.00987	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16328	7
WERE	CITY OF AUGUSTA 69KV	10.89	0.00987	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16328	7
WERE	CITY OF BURLINGTON 69KV	5.2	0.00738	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16577	7
WERE	CITY OF BURLINGTON 69KV	5.2	0.00738	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16577	7
WERE	CITY OF BURLINGTON 69KV	5.2	0.00738	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16577	7
WERE	CITY OF BURLINGTON 69KV	5.2	0.00738	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16577	7
WERE	CITY OF IOLA 69KV	20	0.00156	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17159	7
WERE	CITY OF IOLA 69KV	20	0.00156	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17159	7
WERE	CITY OF IOLA 69KV	27.7415	0.00268	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17047	7
WERE	CITY OF IOLA 69KV	27.7415	0.00268	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17047	7
WERE	CITY OF MULVANE 69KV	4.893109	0.01244	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16071	7
WERE	CITY OF MULVANE 69KV	4.893109	0.01244	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16071	7
WERE	CITY OF WELLINGTON 69KV	4	0.00211	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17104	7
WERE	CITY OF WELLINGTON 69KV	4	0.00211	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17104	7
WERE	CITY OF WINFIELD 69KV	29.1318	-0.00409	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17724	7
WERE	CITY OF WINFIELD 69KV	29.1318	-0.00409	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17724	7
WERE	COFFEY CO SUB 34KV	200	0.00974	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16341	7
WERE	COFFEY CO SUB 34KV	200	0.00974	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16341	7
GRDA	COFFGEN6_1 12.470 69KV	53	-0.00551	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17866	7
GRDA	COFFGEN6_1 12.470 69KV	53	-0.00551	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17866	7
GRDA	COFFGEN6_1 12.470 69KV	53	-0.00551	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17866	7
WERE	EMPORIA ENERGY CENTER 345KV	450	0.0159	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15725	7
WERE	EMPORIA ENERGY CENTER 345KV	450	0.0159	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15725	7
WERE	GILL ENERGY CENTER 138KV	34.18262	0.01608	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15707	7
WERE	GILL ENERGY CENTER 138KV	34.18262	0.01608	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15707	7
SWPA	JBOGENE1 13.800 69KV	201.3553	-0.0011	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17425	7
SWPA	JBOGENE1 13.800 69KV	201.3553	-0.0011	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17425	7
WERE	JEFFREY ENERGY CENTER 230KV	55	0.01598	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15717	7
WERE	JEFFREY ENERGY CENTER 230KV	55	0.01598	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15717	7
WERE	JEFFREY ENERGY CENTER 345KV	110	0.01596	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15719	7
WERE	JEFFREY ENERGY CENTER 345KV	110	0.01596	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15719	7
SWPA	KENNETT 69KV	5.299999	-0.00024	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17339	7
SWPA	KENNETT 69KV	5.299999	-0.00024	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17339	7
WERE	LAWRENCE ENERGY CENTER 115KV	11.00001	0.01335	OKGE	OU SPIRIT 138KV	102	0.17315	-0.1598	7
WERE	LAWRENCE ENERGY CENTER 115KV	11.00001	0.01335	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.1598	7
WERE	LAWRENCE ENERGY CENTER 230KV	15	0.01361	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15954	7
WERE	LAWRENCE ENERGY CENTER 230KV	15	0.01361	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15954	7
SWPA	MALDEN 69KV	8.222	0.00005	OKGE	OU SPIRIT 138KV	102	0.17315	-0.1731	7
SWPA	MALDEN 69KV	8.222	0.00005	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.1731	7
WERE	MARSHGEN1 0.6900 34KV	73.8	0.01742	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15573	7
WERE	MARSHGEN1 0.6900 34KV	73.8	0.01742	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15573	7
WERE	MUSCOTA2 69.000 69KV	5.55	0.0134	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15975	7
WERE	MUSCOTA2 69.000 69KV	5.55	0.0134	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15975	7
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	DEWEY CO SUB 4 138KV	130	-0.08119	-0.16758	7
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WFEC	HAMMON CO SUB 138KV	114	-0.08026	-0.16851	7
OMPA	OMPA-MANGUM 69KV	5.198	-0.04691	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.16285	7
OMPA	OMPA-MANGUM 69KV	5.198	-0.04691	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.16285	7
WERE	OXFORD 138KV	4.5	-0.0009	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17405	7
WERE	OXFORD 138KV	4.5	-0.0009	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17405	7
SWPA	PARAGOULD 161KV	31	-0.00072	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17387	7
SWPA	PARAGOULD 161KV	31	-0.00072	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17387	7
SWPA	PIGGOTT 69KV	7.5	-0.00014	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17329	7
SWPA	PIGGOTT 69KV	7.5	-0.00014	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17329	7
SWPA	POPLAR BLUFF 161KV	8.16	0.0004	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17275	7
SWPA	POPLAR BLUFF 161KV	8.16	0.0004	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17275	7
SWPA	SOUTH SENECA 115KV	8.4	0.01644	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15671	7
WERE	SOUTH SENECA 115KV	8.4	0.01644	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15671	7
WERE	TECUMSEH ENERGY CENTER 115KV	7	0.01445	OKGE	OU SPIRIT 138KV	102	0.17315	-0.1587	7
WERE	TECUMSEH ENERGY CENTER 115KV	7	0.01445	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.1587	7
WFEC	ANADARKO 138KV	284	-0.02514	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.14108	8
WFEC	ANADARKO 138KV	284	-0.02514	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.14108	8
WFEC	ANADARKO 69KV	70	-0.02636	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.1423	8
WFEC	ANADARKO 69KV	70	-0.02636	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.1423	8
GRDA	BOOMER 69KV	24	-0.02367	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13961	8
GRDA	BOOMER 69KV	24	-0.02367	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13961	8
WERE	BPU - CITY OF MCPHERSON 115KV	238	0.02402	OKGE	OU SPIRIT 138KV	102	0.17315	-0.14913	8
WERE	BPU - CITY OF MCPHERSON 115KV	238	0.02402	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.14913	8
WERE	CLAYGEN1 13.200 115KV	29.67	0.0186	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15455	8
WERE	CLAYGEN1 13.200 115KV	29.67	0.0186	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15455	8
WERE	EVANS ENERGY CENTER 138KV	220	0.01792	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15523	8

Table 4 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	GRDA	GRDA1 345KV	520	-0.00799	-0.0581	20
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	AEPW	KNOXLEE 138KV	124.7686	-0.00816	-0.05793	20
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	AEPW	LEBROCK 345KV	187.2211	-0.0082	-0.05789	20
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	AEPW	PIRKEY GENERATION 138KV	675	-0.00819	-0.0579	20
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	AEPW	WELSH 345KV	1056	-0.0091	-0.05699	20
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	AEPW	WILKES 138KV	300	-0.00854	-0.05755	20
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	AEPW	WILKES 345KV	348	-0.00838	-0.05771	20
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	WERE	G11_057_3 0.6900 34KV	200	-0.00929	-0.0568	21
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	AEPW	NORTHEASTERN STATION 138KV	851	-0.0102	-0.05589	21
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	AEPW	OEC 345KV	1060.007	-0.01147	-0.05462	21
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	AEPW	TURK 138KV	650	-0.00988	-0.05621	21
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	AEPW	COGENTRIX 345KV	512.09	-0.01264	-0.05345	22
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	WFEC	HUGO 138KV	440	-0.01279	-0.0533	22
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	OKGE	MUSKOGEE 345KV	1542.5	-0.01221	-0.05388	22
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	AEPW	NORTHEASTERN STATION 345KV	460	-0.01272	-0.05337	22
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	AEPW	RIVERSIDE STATION 138KV	908.0001	-0.0126	-0.05349	22
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	OKGE	ORIGIN21 0.6900 34KV	149	-0.01611	-0.04998	23
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	AEPW	COMANCHE 138KV	170	-0.0174	-0.04869	24
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	OKGE	SOONER 345KV	537	-0.01695	-0.04914	24
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	AEPW	COMANCHE 69KV	71	-0.01897	-0.04712	25
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	OKGE	SEMINOLE 138KV	160.9277	-0.01869	-0.0474	25
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	OKGE	SEMINOLE 345KV	457	-0.01883	-0.04726	25
WFEC	ANADARKO 69KV	70	-0.02636	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04428	26
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04516	26
WFEC	ANADARKO 138KV	284	-0.02514	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04306	27
WFEC	ANADARKO 69KV	70	-0.02636	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04244	27
WFEC	ANADARKO 69KV	70	-0.02636	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.04256	27
OKGE	MUSTANG 69KV	106	-0.02549	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04341	27
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01547	-0.04271	27
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.04314	27
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04332	27
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04322	27
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.0432	27
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.04344	27
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04251	27
WFEC	ANADARKO 138KV	284	-0.02514	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.04104	28
WFEC	ANADARKO 138KV	284	-0.02514	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04122	28
WFEC	ANADARKO 138KV	284	-0.02514	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04112	28
WFEC	ANADARKO 138KV	284	-0.02514	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.0411	28
WFEC	ANADARKO 138KV	284	-0.02514	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.04134	28
WFEC	ANADARKO 69KV	70	-0.02636	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01547	-0.04183	28
WFEC	ANADARKO 69KV	70	-0.02636	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.04226	28
WFEC	ANADARKO 69KV	70	-0.02636	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04234	28
WFEC	ANADARKO 69KV	70	-0.02636	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.04232	28
GRDA	BOOMER 69KV	24	-0.02367	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04159	28
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04097	28
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04195	28
OKGE	MUSTANG 69KV	106	-0.02549	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01547	-0.04096	28
OKGE	MUSTANG 69KV	106	-0.02549	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.04139	28
OKGE	MUSTANG 69KV	106	-0.02549	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04157	28
OKGE	MUSTANG 69KV	106	-0.02549	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04147	28
OKGE	MUSTANG 69KV	106	-0.02549	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.04145	28
OKGE	MUSTANG 69KV	106	-0.02549	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.04169	28
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.04169	28
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04172	28
WFEC	ANADARKO 138KV	284	-0.02514	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01547	-0.04061	29
WFEC	ANADARKO 138KV	284	-0.02514	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03959	29
WFEC	ANADARKO 69KV	70	-0.02636	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03971	29
WFEC	ANADARKO 69KV	70	-0.02636	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03997	29
WFEC	ANADARKO 69KV	70	-0.02636	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.04081	29
GRDA	BOOMER 69KV	24	-0.02367	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03957	29
GRDA	BOOMER 69KV	24	-0.02367	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03975	29
GRDA	BOOMER 69KV	24	-0.02367	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03965	29
GRDA	BOOMER 69KV	24	-0.02367	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03963	29
GRDA	BOOMER 69KV	24	-0.02367	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.03987	29

Table 4 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04009	29
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03993	29
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04011	29
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04001	29
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03999	29
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.04023	29
OKGE	MUSTANG 69KV	106	-0.02549	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03994	29
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	CITY OF MULVANE 69KV	10.89689	0.01244	-0.03968	29
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.04059	29
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.04085	29
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.0397	29
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03988	29
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03978	29
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03976	29
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.04	29
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01547	-0.04006	29
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.04049	29
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04067	29
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04057	29
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.04055	29
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.04079	29
WFEC	ANADARKO 138KV	284	-0.02514	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03849	30
WFEC	ANADARKO 138KV	284	-0.02514	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03875	30
WFEC	ANADARKO 69KV	70	-0.02636	WERE	CITY OF MULVANE 69KV	10.89689	0.01244	-0.0388	30
GRDA	BOOMER 69KV	24	-0.02367	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01547	-0.03914	30
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03825	30
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.03837	30
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01547	-0.03852	30
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03895	30
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03913	30
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03903	30
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03901	30
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.03925	30
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01547	-0.0395	30
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03848	30
OKGE	MUSTANG 69KV	106	-0.02549	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03884	30
OKGE	MUSTANG 69KV	106	-0.02549	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.0391	30
OKGE	REDBUD 345KV	133	-0.02107	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03899	30
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01547	-0.03927	30
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03825	30
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03904	30
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03912	30
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03949	30
WFEC	ANADARKO 138KV	284	-0.02514	WERE	CITY OF MULVANE 69KV	10.89689	0.01244	-0.03758	31
GRDA	BOOMER 69KV	24	-0.02367	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03702	31
GRDA	BOOMER 69KV	24	-0.02367	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03728	31
GRDA	BOOMER 69KV	24	-0.02367	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03812	31
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03807	31
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03815	31
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03813	31
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.0375	31
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03738	31
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03764	31
OKGE	MUSTANG 69KV	106	-0.02549	WERE	CITY OF MULVANE 69KV	10.89689	0.01244	-0.03793	31
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.03711	31
OKGE	REDBUD 345KV	133	-0.02107	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03715	31
OKGE	REDBUD 345KV	133	-0.02107	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03705	31
OKGE	REDBUD 345KV	133	-0.02107	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03703	31
OKGE	REDBUD 345KV	133	-0.02107	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.03727	31

Table 4 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03715	31
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03741	31
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	CITY OF MULVANE 69KV	10.89689	0.01244	-0.03703	31
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03794	31
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.0382	31
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.0371	31
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03728	31
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03718	31
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03716	31
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.0374	31
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03747	31
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03765	31
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03755	31
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03753	31
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.03777	31
WFEC	ANADARKO 69KV	70	-0.02636	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.03623	32
WFEC	ANADARKO 69KV	70	-0.02636	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.0361	32
WFEC	ANADARKO 69KV	70	-0.02636	WERE	WAVERGENT 0.6900 34KV	101	0.00974	-0.0361	32
GRDA	BOOMER 69KV	24	-0.02367	WERE	CITY OF MULVANE 69KV	10.89689	0.01244	-0.03611	32
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03662	32
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.0364	32
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03666	32
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	CITY OF MULVANE 69KV	10.89689	0.01244	-0.03647	32
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03698	32
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	WAVERGENT 0.6900 34KV	101	0.00974	-0.03698	32
OKGE	REDBUD 345KV	133	-0.02107	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03697	32
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03661	32
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03675	32
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	CITY OF MULVANE 69KV	10.89689	0.01244	-0.03624	32
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03602	32
WFEC	ANADARKO 138KV	284	-0.02514	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.03501	33
WFEC	ANADARKO 138KV	284	-0.02514	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03488	33
WFEC	ANADARKO 138KV	284	-0.02514	WERE	WAVERGENT 0.6900 34KV	101	0.00974	-0.03488	33
OKGE	G13-029 0.6900 34KV	300	-0.01691	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03483	33
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03552	33
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03578	33
OKGE	MUSTANG 69KV	106	-0.02549	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.03536	33
OKGE	MUSTANG 69KV	106	-0.02549	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03523	33
OKGE	MUSTANG 69KV	106	-0.02549	WERE	WAVERGENT 0.6900 34KV	101	0.00974	-0.03523	33
OKGE	REDBUD 345KV	133	-0.02107	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03552	33
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.03489	33
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03491	33
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03481	33
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.03503	33
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03481	33
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03565	33
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03492	33
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03518	33
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.0339	34
OKGE	REDBUD 345KV	133	-0.02107	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03442	34
OKGE	REDBUD 345KV	133	-0.02107	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03468	34
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03459	34
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03477	34
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03467	34
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03465	34
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03473	34
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03479	34
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.03446	34
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03433	34
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	WAVERGENT 0.6900 34KV	101	0.00974	-0.03433	34
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03455	34
WFEC	ANADARKO 69KV	70	-0.02636	WERE	ELK RIVER 345KV	150	0.00654	-0.0329	35
GRDA	BOOMER 69KV	24	-0.02367	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.03354	35
GRDA	BOOMER 69KV	24	-0.02367	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03341	35
GRDA	BOOMER 69KV	24	-0.02367	WERE	WAVERGENT 0.6900 34KV	101	0.00974	-0.03341	35
OKGE	G13-029 0.6900 34KV	300	-0.01691	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03299	35
OKGE	G13-029 0.6900 34KV	300	-0.01691	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03289	35

Table 4 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

Table with columns for various entities (e.g., OMPA, WERE, SWPA), locations (e.g., OMPA-PAWHUSKA NORTHEAST 138KV), values (e.g., 6.7, -0.01486), and numerical results (e.g., 120, 0.21617). Rows list numerous potential relief pairs and associated numerical data.

Table 4 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

OKGE	MUSKOGEE 345KV	37.5	-0.01221	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18536	6
OKGE	MUSKOGEE 345KV	37.5	-0.01221	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18536	6
OKGE	MUSTANG 138KV	149.5	-0.02403	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19718	6
OKGE	MUSTANG 138KV	149.5	-0.02403	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19718	6
OKGE	MUSTANG 69KV	106	-0.02549	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19864	6
OKGE	MUSTANG 69KV	106	-0.02549	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19864	6
AEPW	NORTH MARSHALL 69KV	5	-0.00811	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18126	6
AEPW	NORTH MARSHALL 69KV	5	-0.00811	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18126	6
AEPW	NORTHEASTERN STATION 345KV	481	-0.01272	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18587	6
AEPW	NORTHEASTERN STATION 345KV	481	-0.01272	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18587	6
AEPW	OEC 345KV	149.9927	-0.01147	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18462	6
AEPW	OEC 345KV	149.9927	-0.01147	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18462	6
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.18203	6
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	OKGE	CRSRDWT21 34.500 345KV	216	0.11594	-0.18203	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	G12-033 0.6500 34KV	70	-0.06594	-0.18283	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	RKYRDGW1-1 34.500 138KV	150	-0.04642	-0.20235	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	WTH WIND 34.500 34KV	147	-0.05169	-0.19708	6
OMPA	OMPA-PAWHUSKA NORTHEAST 138KV	6.7	-0.01486	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18801	6
OMPA	OMPA-PAWHUSKA NORTHEAST 138KV	6.7	-0.01486	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18801	6
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	OKGE	OU SPIRIT 138KV	102	0.17315	-0.20039	6
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.20039	6
OKGE	REDBUD 345KV	133	-0.02107	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19422	6
OKGE	REDBUD 345KV	133	-0.02107	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19422	6
AEPW	RIVERSIDE STATION 138KV	139	-0.0126	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18575	6
AEPW	RIVERSIDE STATION 138KV	139	-0.0126	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18575	6
GRDA	SALINA 161KV	129	-0.00831	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18146	6
GRDA	SALINA 161KV	129	-0.00831	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18146	6
WERE	SALINA MAIN 115KV	7.18	0.0218	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.19437	6
OKGE	SEMINOLE 138KV	344.0723	-0.01869	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19184	6
OKGE	SEMINOLE 138KV	344.0723	-0.01869	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19184	6
OKGE	SEMINOLE 345KV	572.6	-0.01883	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19198	6
OKGE	SEMINOLE 345KV	572.6	-0.01883	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19198	6
OKGE	SMITH COGEN 138KV	16	-0.0238	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19695	6
OKGE	SMITH COGEN 138KV	16	-0.0238	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19695	6
OKGE	SOONER 138KV	5	-0.02314	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19629	6
OKGE	SOONER 138KV	5	-0.02314	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19629	6
OKGE	SOONER 345KV	3	-0.01695	OKGE	OU SPIRIT 138KV	102	0.17315	-0.1901	6
OKGE	SOONER 345KV	3	-0.01695	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.1901	6
WERE	SOUTH SENECA 115KV	8.4	0.01644	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.19973	6
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19774	6
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19774	6
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19435	6
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19435	6
WERE	TECUMSEH ENERGY CENTER 115KV	7	0.01445	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20712	6
OKGE	TINKER 5G 138KV	62	-0.02157	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19472	6
OKGE	TINKER 5G 138KV	62	-0.02157	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19472	6
AEPW	TONTITOWN 161KV	301	-0.00771	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18086	6
AEPW	TONTITOWN 161KV	301	-0.00771	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18086	6
AEPW	TULSA POWER STATION 138KV	307	-0.01243	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18558	6
AEPW	TULSA POWER STATION 138KV	307	-0.01243	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18558	6
AEPW	TURK 138KV	34	-0.00988	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18303	6
AEPW	TURK 138KV	34	-0.00988	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18303	6
AEPW	WELEETKA 138KV	158	-0.01486	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18801	6
AEPW	WELEETKA 138KV	158	-0.01486	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18801	6
AEPW	WELSH 345KV	528	-0.0091	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18225	6
AEPW	WELSH 345KV	528	-0.0091	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18225	6
AEPW	WILKES 138KV	178	-0.00854	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18169	6
AEPW	WILKES 138KV	178	-0.00854	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18169	6
AEPW	WILKES 345KV	4	-0.00838	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18153	6
AEPW	WILKES 345KV	4	-0.00838	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18153	6
WERE	BROWN COUNTY 115KV	5.5	0.01587	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15728	7
WERE	BROWN COUNTY 115KV	5.5	0.01587	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15728	7
WERE	CC5SHAR1 12.470 69KV	10	0.00802	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16513	7
WERE	CC5SHAR1 12.470 69KV	10	0.00802	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16513	7
WERE	CC6SHAR1 12.470 69KV	10	0.00802	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16513	7
WERE	CC6SHAR1 12.470 69KV	10	0.00802	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16513	7
WERE	CHANUTE 69KV	37.8	0.00156	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17159	7
WERE	CHANUTE 69KV	37.8	0.00156	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17159	7
WERE	CITY OF AUGUSTA 69KV	10.89	0.00987	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16328	7
WERE	CITY OF AUGUSTA 69KV	10.89	0.00987	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16328	7
WERE	CITY OF BURLINGTON 69KV	5.2	0.00738	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16577	7
WERE	CITY OF BURLINGTON 69KV	5.2	0.00738	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16577	7
WERE	CITY OF ERIE 69KV	20	0.00156	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17159	7
WERE	CITY OF ERIE 69KV	20	0.00156	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17159	7

Table 4 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WERE	CITY OF ERIE 69KV	20	0.00156	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17159	7
WERE	CITY OF IOLA 69KV	27.7415	0.00268	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17047	7
WERE	CITY OF IOLA 69KV	27.7415	0.00268	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17047	7
WERE	CITY OF MULVANE 69KV	4.893109	0.01244	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16071	7
WERE	CITY OF MULVANE 69KV	4.893109	0.01244	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16071	7
WERE	CITY OF WELLINGTON 69KV	4	0.00211	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17104	7
WERE	CITY OF WELLINGTON 69KV	4	0.00211	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17104	7
WERE	CITY OF WINFIELD 69KV	29.1318	-0.00409	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17724	7
WERE	CITY OF WINFIELD 69KV	29.1318	-0.00409	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17724	7
WERE	COFFEY CO SUB 34KV	200	0.00974	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16341	7
WERE	COFFEY CO SUB 34KV	200	0.00974	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16341	7
GRDA	COFFGEN6_1 12.470 69KV	53	-0.00551	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17866	7
GRDA	COFFGEN6_1 12.470 69KV	53	-0.00551	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17866	7
WERE	EMPORIA ENERGY CENTER 345KV	450	0.0159	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15725	7
WERE	EMPORIA ENERGY CENTER 345KV	450	0.0159	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15725	7
WERE	GILL ENERGY CENTER 138KV	34.18262	0.01608	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15707	7
WERE	GILL ENERGY CENTER 138KV	34.18262	0.01608	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15707	7
SWPA	JBOGENE1 13.800 69KV	201.3553	-0.0011	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17425	7
SWPA	JBOGENE1 13.800 69KV	201.3553	-0.0011	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17425	7
WERE	JEFFREY ENERGY CENTER 230KV	55	0.01598	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15717	7
WERE	JEFFREY ENERGY CENTER 230KV	55	0.01598	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15717	7
WERE	JEFFREY ENERGY CENTER 345KV	110	0.01596	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15719	7
WERE	JEFFREY ENERGY CENTER 345KV	110	0.01596	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15719	7
SWPA	KENNETT 69KV	5.299999	-0.00024	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17339	7
SWPA	KENNETT 69KV	5.299999	-0.00024	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17339	7
WERE	LAWRENCE ENERGY CENTER 115KV	11.00001	0.01335	OKGE	OU SPIRIT 138KV	102	0.17315	-0.1598	7
WERE	LAWRENCE ENERGY CENTER 115KV	11.00001	0.01335	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.1598	7
WERE	LAWRENCE ENERGY CENTER 230KV	15	0.01361	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15954	7
WERE	LAWRENCE ENERGY CENTER 230KV	15	0.01361	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15954	7
SWPA	MALDEN 69KV	8.222	0.00005	OKGE	OU SPIRIT 138KV	102	0.17315	-0.1731	7
SWPA	MALDEN 69KV	8.222	0.00005	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.1731	7
WERE	MARSHGEN1 0.6900 34KV	73.8	0.01742	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15573	7
WERE	MARSHGEN1 0.6900 34KV	73.8	0.01742	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15573	7
WERE	MUSCOTA2 69.000 69KV	5.55	0.0134	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15975	7
WERE	MUSCOTA2 69.000 69KV	5.55	0.0134	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15975	7
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	DEWEY CO SUB 4 138KV	130	-0.08119	-0.16758	7
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WFEC	HAMMON CO SUB 138KV	114	-0.08026	-0.16851	7
OMPA	OMPA-MANGUM 69KV	5.198	-0.04691	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.16285	7
OMPA	OMPA-MANGUM 69KV	5.198	-0.04691	OKGE	CRSRD21 34.500 345KV	216	0.11594	-0.16285	7
WERE	OXFORD 138KV	4.5	-0.0009	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17405	7
WERE	OXFORD 138KV	4.5	-0.0009	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17405	7
SWPA	PARAGOULD 161KV	31	-0.00072	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17387	7
SWPA	PARAGOULD 161KV	31	-0.00072	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17387	7
SWPA	PIGGOTT 69KV	7.5	-0.00014	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17329	7
SWPA	PIGGOTT 69KV	7.5	-0.00014	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17329	7
SWPA	POPLAR BLUFF 161KV	8.16	0.0004	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17275	7
SWPA	POPLAR BLUFF 161KV	8.16	0.0004	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17275	7
WERE	SOUTH SENECA 115KV	8.4	0.01644	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15671	7
WERE	SOUTH SENECA 115KV	8.4	0.01644	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15671	7
WERE	TECUMSEH ENERGY CENTER 115KV	7	0.01445	OKGE	OU SPIRIT 138KV	102	0.17315	-0.1587	7
WERE	TECUMSEH ENERGY CENTER 115KV	7	0.01445	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.1587	7
WFEC	ANADARKO 138KV	284	-0.02514	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.14108	8
WFEC	ANADARKO 138KV	284	-0.02514	OKGE	CRSRD21 34.500 345KV	216	0.11594	-0.14108	8
WFEC	ANADARKO 69KV	70	-0.02636	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.1423	8
WFEC	ANADARKO 69KV	70	-0.02636	OKGE	CRSRD21 34.500 345KV	216	0.11594	-0.1423	8
GRDA	BOOMER 69KV	24	-0.02367	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13961	8
GRDA	BOOMER 69KV	24	-0.02367	OKGE	CRSRD21 34.500 345KV	216	0.11594	-0.13961	8
WERE	BPU - CITY OF MCPHERSON 115KV	238	0.02402	OKGE	OU SPIRIT 138KV	102	0.17315	-0.14913	8
WERE	BPU - CITY OF MCPHERSON 115KV	238	0.02402	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.14913	8
WERE	CLAYGEN1 13.200 115KV	29.67	0.0186	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15455	8
WERE	CLAYGEN1 13.200 115KV	29.67	0.0186	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15455	8
WERE	EVANS ENERGY CENTER 138KV	220	0.01792	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15523	8
WERE	EVANS ENERGY CENTER 138KV	220	0.01792	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15523	8
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13811	8
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	OKGE	CRSRD21 34.500 345KV	216	0.11594	-0.13811	8
WERE	HUTCHINSON ENERGY CENTER 115KV	344	0.02408	OKGE	OU SPIRIT 138KV	102	0.17315	-0.14907	8
WERE	HUTCHINSON ENERGY CENTER 115KV	344	0.02408	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.14907	8
WERE	HUTCHINSON ENERGY CENTER 69KV	56	0.02414	OKGE	OU SPIRIT 138KV	102	0.17315	-0.14901	8
WERE	HUTCHINSON ENERGY CENTER 69KV	56	0.02414	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.14901	8
OKGE	MCCLAIN 138KV	54.40001	-0.02305	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13899	8
OKGE	MCCLAIN 138KV	54.40001	-0.02305	OKGE	CRSRD21 34.500 345KV	216	0.11594	-0.13899	8
OKGE	MCCLAIN4 138.00 138KV	8	-0.02305	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13899	8
OKGE	MCCLAIN4 138.00 138KV	8	-0.02305	OKGE	CRSRD21 34.500 345KV	216	0.11594	-0.13899	8
OKGE	MUSTANG 138KV	149.5	-0.02403	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13997	8
OKGE	MUSTANG 138KV	149.5	-0.02403	OKGE	CRSRD21 34.500 345KV	216	0.11594	-0.13997	8
OKGE	MUSTANG 69KV	106	-0.02549	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.14143	8
OKGE	MUSTANG 69KV	106	-0.02549	OKGE	CRSRD21 34.500 345KV	216	0.11594	-0.14143	8
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.14318	8

Table 4 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	AEPW	RIVERSIDE STATION 138KV	908.0001	-0.0126	-0.05349	22
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	OKGE	ORIGIN21 0.6900 34KV	149	-0.01611	-0.04998	23
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	AEPW	COMANCHE 138KV	170	-0.0174	-0.04869	24
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	OKGE	SOONER 345KV	537	-0.01695	-0.04914	24
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	AEPW	COMANCHE 69KV	71	-0.01897	-0.04712	25
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	OKGE	SEMINOLE 138KV	160.9277	-0.01869	-0.0474	25
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	OKGE	SEMINOLE 345KV	457	-0.01883	-0.04726	25
WFEC	ANADARKO 69KV	70	-0.02636	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04428	26
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04516	26
WFEC	ANADARKO 138KV	284	-0.02514	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04306	27
WFEC	ANADARKO 69KV	70	-0.02636	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04244	27
WFEC	ANADARKO 69KV	70	-0.02636	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.04256	27
OKGE	MUSTANG 69KV	106	-0.02549	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04341	27
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01547	-0.04271	27
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.04314	27
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04332	27
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04322	27
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.0432	27
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.04344	27
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04251	27
WFEC	ANADARKO 138KV	284	-0.02514	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.04104	28
WFEC	ANADARKO 138KV	284	-0.02514	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04122	28
WFEC	ANADARKO 138KV	284	-0.02514	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04112	28
WFEC	ANADARKO 138KV	284	-0.02514	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.0411	28
WFEC	ANADARKO 138KV	284	-0.02514	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.04134	28
WFEC	ANADARKO 69KV	70	-0.02636	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01547	-0.04183	28
WFEC	ANADARKO 69KV	70	-0.02636	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.04226	28
WFEC	ANADARKO 69KV	70	-0.02636	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04234	28
WFEC	ANADARKO 69KV	70	-0.02636	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.04232	28
GRDA	BOOMER 69KV	24	-0.02367	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04159	28
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04097	28
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04195	28
OKGE	MUSTANG 69KV	106	-0.02549	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01547	-0.04096	28
OKGE	MUSTANG 69KV	106	-0.02549	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.04139	28
OKGE	MUSTANG 69KV	106	-0.02549	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04157	28
OKGE	MUSTANG 69KV	106	-0.02549	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04147	28
OKGE	MUSTANG 69KV	106	-0.02549	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.04145	28
OKGE	MUSTANG 69KV	106	-0.02549	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.04169	28
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.04169	28
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04172	28
WFEC	ANADARKO 138KV	284	-0.02514	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01547	-0.04061	29
WFEC	ANADARKO 138KV	284	-0.02514	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03959	29
WFEC	ANADARKO 69KV	70	-0.02636	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03971	29
WFEC	ANADARKO 69KV	70	-0.02636	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03997	29
WFEC	ANADARKO 69KV	70	-0.02636	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.04081	29
GRDA	BOOMER 69KV	24	-0.02367	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03957	29
GRDA	BOOMER 69KV	24	-0.02367	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03975	29
GRDA	BOOMER 69KV	24	-0.02367	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03965	29
GRDA	BOOMER 69KV	24	-0.02367	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03963	29
GRDA	BOOMER 69KV	24	-0.02367	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.03987	29
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04009	29
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03993	29
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04011	29
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04001	29
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03999	29
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.04023	29
OKGE	MUSTANG 69KV	106	-0.02549	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03994	29
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	CITY OF MULVANE 69KV	10.89689	0.01244	-0.03968	29
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.04059	29
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.04085	29

Table 4 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.0397	29
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03988	29
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03978	29
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03976	29
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.04	29
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01547	-0.04006	29
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.04049	29
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04067	29
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04057	29
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.04055	29
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.04079	29
WFEC	ANADARKO 138KV	284	-0.02514	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03849	30
WFEC	ANADARKO 138KV	284	-0.02514	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03875	30
WFEC	ANADARKO 69KV	70	-0.02636	WERE	CITY OF MULVANE 69KV	10.89689	0.01244	-0.0388	30
GRDA	BOOMER 69KV	24	-0.02367	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01547	-0.03914	30
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03825	30
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.03837	30
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01547	-0.03852	30
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03895	30
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03913	30
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03903	30
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03901	30
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.03925	30
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01547	-0.0395	30
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03848	30
OKGE	MUSTANG 69KV	106	-0.02549	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03884	30
OKGE	MUSTANG 69KV	106	-0.02549	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.0391	30
OKGE	REDBUD 345KV	133	-0.02107	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03899	30
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01547	-0.03927	30
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03825	30
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03904	30
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03912	30
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03949	30
WFEC	ANADARKO 138KV	284	-0.02514	WERE	CITY OF MULVANE 69KV	10.89689	0.01244	-0.03758	31
GRDA	BOOMER 69KV	24	-0.02367	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03702	31
GRDA	BOOMER 69KV	24	-0.02367	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03728	31
GRDA	BOOMER 69KV	24	-0.02367	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03812	31
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03807	31
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03815	31
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03813	31
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.0375	31
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03738	31
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03764	31
OKGE	MUSTANG 69KV	106	-0.02549	WERE	CITY OF MULVANE 69KV	10.89689	0.01244	-0.03793	31
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.03711	31
OKGE	REDBUD 345KV	133	-0.02107	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03715	31
OKGE	REDBUD 345KV	133	-0.02107	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03705	31
OKGE	REDBUD 345KV	133	-0.02107	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03703	31
OKGE	REDBUD 345KV	133	-0.02107	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.03727	31
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03715	31
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03741	31
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	CITY OF MULVANE 69KV	10.89689	0.01244	-0.03703	31
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03794	31
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.0382	31
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.0371	31
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03728	31
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03718	31
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03716	31
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.0374	31

Table 4 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

OKGE	TINKER 5G 138KV	62	-0.02157	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03747	31
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03765	31
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03755	31
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03753	31
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.03777	31
WFEC	ANADARKO 69KV	70	-0.02636	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.03623	32
WFEC	ANADARKO 69KV	70	-0.02636	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.0361	32
WFEC	ANADARKO 69KV	70	-0.02636	WERE	WAVERGEN1 0.6900 34KV	101	0.00974	-0.0361	32
GRDA	BOOMER 69KV	24	-0.02367	WERE	CITY OF MULVANE 69KV	10.89689	0.01244	-0.03611	32
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03662	32
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.0364	32
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03666	32
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	CITY OF MULVANE 69KV	10.89689	0.01244	-0.03647	32
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03698	32
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	WAVERGEN1 0.6900 34KV	101	0.00974	-0.03698	32
OKGE	REDBUD 345KV	133	-0.02107	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03697	32
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03661	32
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03675	32
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	CITY OF MULVANE 69KV	10.89689	0.01244	-0.03624	32
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03602	32
WFEC	ANADARKO 138KV	284	-0.02514	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.03501	33
WFEC	ANADARKO 138KV	284	-0.02514	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03488	33
WFEC	ANADARKO 138KV	284	-0.02514	WERE	WAVERGEN1 0.6900 34KV	101	0.00974	-0.03488	33
OKGE	G13-029 0.6900 34KV	300	-0.01691	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03483	33
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03552	33
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03578	33
OKGE	MUSTANG 69KV	106	-0.02549	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.03536	33
OKGE	MUSTANG 69KV	106	-0.02549	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03523	33
OKGE	MUSTANG 69KV	106	-0.02549	WERE	WAVERGEN1 0.6900 34KV	101	0.00974	-0.03523	33
OKGE	REDBUD 345KV	133	-0.02107	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03552	33
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.03489	33
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03491	33
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03481	33
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.03503	33
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03481	33
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03565	33
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03492	33
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03518	33
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.0339	34
OKGE	REDBUD 345KV	133	-0.02107	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03442	34
OKGE	REDBUD 345KV	133	-0.02107	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03468	34
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03459	34
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03477	34
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03467	34
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03465	34
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03473	34
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03479	34
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.03446	34
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03433	34
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	WAVERGEN1 0.6900 34KV	101	0.00974	-0.03433	34
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03455	34
WFEC	ANADARKO 69KV	70	-0.02636	WERE	ELK RIVER 345KV	150	0.00654	-0.0329	35
GRDA	BOOMER 69KV	24	-0.02367	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.03354	35
GRDA	BOOMER 69KV	24	-0.02367	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03341	35
GRDA	BOOMER 69KV	24	-0.02367	WERE	WAVERGEN1 0.6900 34KV	101	0.00974	-0.03341	35
OKGE	G13-029 0.6900 34KV	300	-0.01691	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03299	35
OKGE	G13-029 0.6900 34KV	300	-0.01691	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03289	35
OKGE	G13-029 0.6900 34KV	300	-0.01691	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03287	35
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.03292	35
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03377	35
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	WAVERGEN1 0.6900 34KV	101	0.00974	-0.03377	35
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	CANEYWF1 0.6900 34KV	199.8	0.00591	-0.03315	35
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	ELK RIVER 345KV	150	0.00654	-0.03378	35
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03314	35
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03328	35
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.03367	35
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03354	35
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	WAVERGEN1 0.6900 34KV	101	0.00974	-0.03354	35
WFEC	ANADARKO 69KV	70	-0.02636	WERE	CANEYWF1 0.6900 34KV	199.8	0.00591	-0.03227	36
OKGE	G13-029 0.6900 34KV	300	-0.01691	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03281	36
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.03204	36

Table 4 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03279	36
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	WAVERGENT 0.6900 34KV	101	0.00974	-0.03279	36
OKGE	MUSTANG 69KV	106	-0.02549	WERE	ELK RIVER 345KV	150	0.00654	-0.03203	36
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03204	36
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.0323	36
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03218	36
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03244	36

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

Upgrade: Multi - Woodward District EHV - Tatonga - Mathewson - Cimarron 345 kV
 Limiting Facility: FPL SWITCH - WOODWARD 138KV CKT 1
 Direction: TO->FROM
 Line Outage: NORTHWEST - TATONGA7 345.00 345KV CKT 1
 Flowgate: 2015AG1AFS41T1095516SP
 Date Redispatch Needed: Starting 2016 6/1 - 10/1 Until EOC of Upgrade
 Season Flowgate Identifier: 2016 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount							
81649784	1.2	1.2							
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
WFEC	MORLND 138KV	187.1987	-0.37464	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.49058	2
WFEC	MORLND 138KV	187.1987	-0.37464	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.59081	2
WFEC	MORLND 138KV	187.1987	-0.37464	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.49058	2
WFEC	MORLND 138KV	187.1987	-0.37464	OKGE	OU SPIRIT 138KV	102	0.17315	-0.54779	2
WFEC	MORLND 138KV	187.1987	-0.37464	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.54779	2
WFEC	MORLND 138KV	187.1987	-0.37464	WERE	6TH STREET 115KV	2.18	0.01333	-0.38797	3
WFEC	MORLND 138KV	187.1987	-0.37464	WERE	AEC W1 34.500 115KV	2.253005	0.0199	-0.39454	3
WFEC	MORLND 138KV	187.1987	-0.37464	OKGE	AES 161KV	320	-0.00817	-0.36647	3
WFEC	MORLND 138KV	187.1987	-0.37464	WFEC	ANADARKO 138KV	363	-0.02514	-0.3495	3
WFEC	MORLND 138KV	187.1987	-0.37464	AEPW	ARSENAL HILL 138KV	509	-0.00754	-0.3671	3
WFEC	MORLND 138KV	187.1987	-0.37464	OKGE	BLKWLD1 34.500 69KV	59.8	-0.03246	-0.34218	3
WFEC	MORLND 138KV	187.1987	-0.37464	AEPW	BUFFCK1 34.500 230KV	99	-0.034	-0.34064	3
WFEC	MORLND 138KV	187.1987	-0.37464	OKGE	CANDN12 34.500 345KV	298.2	-0.0222	-0.35244	3
WFEC	MORLND 138KV	187.1987	-0.37464	WERE	CANEYWF1 0.6900 34KV	199.8	0.00591	-0.38055	3
WFEC	MORLND 138KV	187.1987	-0.37464	SWPA	CARTHAGE 69KV	20	-0.00196	-0.37268	3
WFEC	MORLND 138KV	187.1987	-0.37464	OKGE	CHSHMVW1 34.500 345KV	202	-0.02114	-0.3535	3
WFEC	MORLND 138KV	187.1987	-0.37464	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.38451	3
WFEC	MORLND 138KV	187.1987	-0.37464	WERE	CITY OF BURLINGTON 69KV	7.3	0.00738	-0.38202	3
WFEC	MORLND 138KV	187.1987	-0.37464	WERE	CITY OF MULVANE 69KV	10.89689	0.01244	-0.38708	3
WFEC	MORLND 138KV	187.1987	-0.37464	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01547	-0.39011	3
WFEC	MORLND 138KV	187.1987	-0.37464	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.38438	3
WFEC	MORLND 138KV	187.1987	-0.37464	AEPW	COGENTRIX 345KV	512.09	-0.01264	-0.362	3
WFEC	MORLND 138KV	187.1987	-0.37464	AEPW	COMANCHE 138KV	170	-0.0174	-0.35724	3
WFEC	MORLND 138KV	187.1987	-0.37464	AEPW	COMANCHE 69KV	71	-0.01897	-0.35567	3
WFEC	MORLND 138KV	187.1987	-0.37464	WFEC	COMANCHE CO SUB 34KV	100	-0.02494	-0.3497	3
WFEC	MORLND 138KV	187.1987	-0.37464	AEPW	EASTMAN 138KV	350.4174	-0.00821	-0.36643	3
WFEC	MORLND 138KV	187.1987	-0.37464	WERE	ELK RIVER 345KV	150	0.00654	-0.38118	3
WFEC	MORLND 138KV	187.1987	-0.37464	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.39054	3
WFEC	MORLND 138KV	187.1987	-0.37464	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.39256	3
WFEC	MORLND 138KV	187.1987	-0.37464	AEPW	FITZHUGH 161KV	46.6969	-0.0073	-0.36734	3
WFEC	MORLND 138KV	187.1987	-0.37464	AEPW	FLINT CREEK 161KV	528	-0.0071	-0.36754	3
WFEC	MORLND 138KV	187.1987	-0.37464	WERE	FR2E1WF1 0.6900 34KV	100.2401	-0.00068	-0.37396	3
WFEC	MORLND 138KV	187.1987	-0.37464	WERE	FR2E2WF1 0.6900 34KV	100.2401	-0.00068	-0.37396	3
WFEC	MORLND 138KV	187.1987	-0.37464	WERE	FR2W1WF1 0.6900 34KV	130.4464	-0.00068	-0.37396	3
WFEC	MORLND 138KV	187.1987	-0.37464	WERE	FR2W2WF1 0.6900 34KV	129.0734	-0.00068	-0.37396	3
WFEC	MORLND 138KV	187.1987	-0.37464	AEPW	G10-055 4.1600 13KV	3	-0.01278	-0.36186	3
WFEC	MORLND 138KV	187.1987	-0.37464	WERE	G11_057_3 0.6900 34KV	200	-0.00929	-0.36535	3
WFEC	MORLND 138KV	187.1987	-0.37464	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.39072	3
WFEC	MORLND 138KV	187.1987	-0.37464	OKGE	GRADY CO SUB 345KV	199	-0.02074	-0.3539	3
WFEC	MORLND 138KV	187.1987	-0.37464	GRDA	GRDA1 161KV	354.8212	-0.00847	-0.36617	3
WFEC	MORLND 138KV	187.1987	-0.37464	GRDA	GRDA1 345KV	520	-0.00799	-0.36665	3
WFEC	MORLND 138KV	187.1987	-0.37464	OKGE	HORSESHOE LAKE 138KV	294	-0.02217	-0.35247	3
WFEC	MORLND 138KV	187.1987	-0.37464	OKGE	HORSESHOE LAKE 69KV	16	-0.02178	-0.35286	3
WFEC	MORLND 138KV	187.1987	-0.37464	WFEC	HUGO 138KV	440	-0.01279	-0.36185	3
WFEC	MORLND 138KV	187.1987	-0.37464	SWPA	JBOGENE1 13.800 69KV	69.44469	-0.0011	-0.37354	3
WFEC	MORLND 138KV	187.1987	-0.37464	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.39062	3
WFEC	MORLND 138KV	187.1987	-0.37464	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.3906	3
WFEC	MORLND 138KV	187.1987	-0.37464	OKGE	KAYWIND12 0.7000 34KV	280	-0.00527	-0.36937	3
WFEC	MORLND 138KV	187.1987	-0.37464	SWPA	KENNETT 69KV	29	-0.00024	-0.3744	3
WFEC	MORLND 138KV	187.1987	-0.37464	AEPW	KNOXLEE 138KV	124.7686	-0.00816	-0.36648	3
WFEC	MORLND 138KV	187.1987	-0.37464	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.38799	3
WFEC	MORLND 138KV	187.1987	-0.37464	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.38825	3
WFEC	MORLND 138KV	187.1987	-0.37464	AEPW	LEBROCK 345KV	187.2211	-0.0082	-0.36644	3
WFEC	MORLND 138KV	187.1987	-0.37464	SWPA	MALDEN 69KV	5.978	0.00005	-0.37469	3
WFEC	MORLND 138KV	187.1987	-0.37464	OKGE	MCCLAIN 138KV	465.6	-0.02305	-0.35159	3
WFEC	MORLND 138KV	187.1987	-0.37464	OKGE	MCCLAIN4 138.00 138KV	20	-0.02305	-0.35159	3
WFEC	MORLND 138KV	187.1987	-0.37464	WFEC	MEERS CO SUB 138KV	74.25	-0.02494	-0.3497	3
WFEC	MORLND 138KV	187.1987	-0.37464	OKGE	MNCWIND31 34.500 345KV	100	-0.02074	-0.3539	3
WFEC	MORLND 138KV	187.1987	-0.37464	OKGE	MUSKOGEE 345KV	1542.5	-0.01221	-0.36243	3
WFEC	MORLND 138KV	187.1987	-0.37464	OKGE	MUSTANG 138KV	221	-0.02403	-0.35061	3
WFEC	MORLND 138KV	187.1987	-0.37464	AEPW	NORTHEASTERN STATION 138KV	851	-0.0102	-0.36444	3
WFEC	MORLND 138KV	187.1987	-0.37464	AEPW	NORTHEASTERN STATION 345KV	460	-0.01272	-0.36192	3
WFEC	MORLND 138KV	187.1987	-0.37464	AEPW	OEC 345KV	1060.007	-0.01147	-0.36317	3
WFEC	MORLND 138KV	187.1987	-0.37464	OMPA	OMPA-PONCA CITY 69KV	73.29224	-0.02724	-0.3474	3
WFEC	MORLND 138KV	187.1987	-0.37464	OKGE	ORIGIN21 0.6900 34KV	149	-0.01611	-0.35853	3

Table 4 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

AEPW	ARSENAL HILL 138KV	2	-0.00754	OKGE	WOODWARD CO SUB 2	151.8	0.17315	-0.18069	6
AEPW	ARSENAL HILL 69KV	110	-0.00754	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18069	6
AEPW	ARSENAL HILL 69KV	110	-0.00754	OKGE	WOODWARD CO SUB 2	151.8	0.17315	-0.18069	6
GRDA	BOOMER 69KV	24	-0.02367	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19682	6
GRDA	BOOMER 69KV	24	-0.02367	OKGE	WOODWARD CO SUB 2	151.8	0.17315	-0.19682	6
WERE	BPU - CITY OF MCPHERSON 115KV	238	0.02402	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.19215	6
WERE	BROWN COUNTY 115KV	5.5	0.01587	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.2003	6
WERE	CC5SHAR1 12.470 69KV	10	0.00802	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20815	6
WERE	CC6SHAR1 12.470 69KV	10	0.00802	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20815	6
WERE	CITY OF AUGUSTA 69KV	10.89	0.00987	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.2063	6
WERE	CITY OF BURLINGTON 69KV	5.2	0.00738	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20879	6
WERE	CITY OF MULVANE 69KV	4.893109	0.01244	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20373	6
WERE	CLAYGEN1 13.200 115KV	29.67	0.0186	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.19757	6
WERE	COFFEY CO SUB 34KV	200	0.00974	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20643	6
AEPW	COGENTRIX 345KV	381.91	-0.01264	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18579	6
AEPW	COGENTRIX 345KV	381.91	-0.01264	OKGE	WOODWARD CO SUB 2	151.8	0.17315	-0.18579	6
AEPW	EASTMAN 138KV	134.5926	-0.00821	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18136	6
AEPW	EASTMAN 138KV	134.5926	-0.00821	OKGE	WOODWARD CO SUB 2	151.8	0.17315	-0.18136	6
AEPW	EASTMAN 138KV	134.5926	-0.00821	OKGE	WOODWARD CO SUB 2	151.8	0.17315	-0.18136	6
AEPW	ELKINS GENERATOR 69KV	60	-0.00774	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18089	6
AEPW	ELKINS GENERATOR 69KV	60	-0.00774	OKGE	WOODWARD CO SUB 2	151.8	0.17315	-0.18089	6
WERE	EMPORIA ENERGY CENTER 345KV	450	0.0159	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20027	6
WERE	EVANS ENERGY CENTER 138KV	220	0.01792	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.19825	6
AEPW	FITZHUGH 161KV	118.3031	-0.0073	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18045	6
AEPW	FITZHUGH 161KV	118.3031	-0.0073	OKGE	WOODWARD CO SUB 2	151.8	0.17315	-0.18045	6
AEPW	FULTON 115KV	153	-0.00882	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18197	6
AEPW	FULTON 115KV	153	-0.00882	OKGE	WOODWARD CO SUB 2	151.8	0.17315	-0.18197	6
WERE	G11_057_3 0.6900 34KV	151.4	-0.00929	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18244	6
WERE	G11_057_3 0.6900 34KV	151.4	-0.00929	OKGE	WOODWARD CO SUB 2	151.8	0.17315	-0.18244	6
OMPA	G12-041 18.000 345KV	121.5	-0.00896	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18211	6
OMPA	G12-041 18.000 345KV	121.5	-0.00896	OKGE	WOODWARD CO SUB 2	151.8	0.17315	-0.18211	6
OKGE	G13-029 0.6900 34KV	300	-0.01691	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19006	6
OKGE	G13-029 0.6900 34KV	300	-0.01691	OKGE	WOODWARD CO SUB 2	151.8	0.17315	-0.19006	6
WERE	GILL ENERGY CENTER 138KV	34.18262	0.01608	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20009	6
GRDA	GRDA1 161KV	135.1788	-0.00847	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18162	6
GRDA	GRDA1 161KV	135.1788	-0.00847	OKGE	WOODWARD CO SUB 2	151.8	0.17315	-0.18162	6
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19532	6
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	OKGE	WOODWARD CO SUB 2	151.8	0.17315	-0.19532	6
WERE	HUTCHINSON ENERGY CENTER 115KV	344	0.02408	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.19209	6
WERE	HUTCHINSON ENERGY CENTER 69KV	56	0.02414	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.19203	6
WERE	JEFFREY ENERGY CENTER 230KV	55	0.01598	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20019	6
WERE	JEFFREY ENERGY CENTER 345KV	110	0.01596	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20021	6
AEPW	KNOXLEE 138KV	344.2314	-0.00816	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18131	6
AEPW	KNOXLEE 138KV	344.2314	-0.00816	OKGE	WOODWARD CO SUB 2	151.8	0.17315	-0.18131	6
WERE	LAWRENCE ENERGY CENTER 115KV	11.00001	0.01335	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20282	6
WERE	LAWRENCE ENERGY CENTER 230KV	15	0.01361	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20256	6
AEPW	LEBROCK 345KV	322.7789	-0.0082	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18135	6
AEPW	LEBROCK 345KV	322.7789	-0.0082	OKGE	WOODWARD CO SUB 2	151.8	0.17315	-0.18135	6
AEPW	LIEBERMAN 138KV	242	-0.00767	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18082	6
AEPW	LIEBERMAN 138KV	242	-0.00767	OKGE	WOODWARD CO SUB 2	151.8	0.17315	-0.18082	6
AEPW	LONESTAR POWER PLANT 69KV	50	-0.00864	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18179	6
AEPW	LONESTAR POWER PLANT 69KV	50	-0.00864	OKGE	WOODWARD CO SUB 2	151.8	0.17315	-0.18179	6
WERE	MARSHGEN1 0.6900 34KV	73.8	0.01742	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.19875	6
OKGE	MCCLAIN 138KV	54.40001	-0.02305	OKGE	OU SPIRIT 138KV	102	0.17315	-0.1962	6
OKGE	MCCLAIN 138KV	54.40001	-0.02305	OKGE	WOODWARD CO SUB 2	151.8	0.17315	-0.1962	6
OKGE	MCCLAIN4 138.00 138KV	8	-0.02305	OKGE	OU SPIRIT 138KV	102	0.17315	-0.1962	6
OKGE	MCCLAIN4 138.00 138KV	8	-0.02305	OKGE	WOODWARD CO SUB 2	151.8	0.17315	-0.1962	6
WERE	MUSCOTA2 69.000 69KV	5.55	0.0134	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20277	6
OKGE	MUSKOGEE 345KV	37.5	-0.01221	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18536	6
OKGE	MUSKOGEE 345KV	37.5	-0.01221	OKGE	WOODWARD CO SUB 2	151.8	0.17315	-0.18536	6
OKGE	MUSTANG 138KV	149.5	-0.02403	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19718	6
OKGE	MUSTANG 138KV	149.5	-0.02403	OKGE	WOODWARD CO SUB 2	151.8	0.17315	-0.19718	6
OKGE	MUSTANG 69KV	106	-0.02549	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19864	6
OKGE	MUSTANG 69KV	106	-0.02549	OKGE	WOODWARD CO SUB 2	151.8	0.17315	-0.19864	6
WERE	NORTH MARSHALL 69KV	5	-0.00811	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18126	6
AEPW	NORTH MARSHALL 69KV	5	-0.00811	OKGE	WOODWARD CO SUB 2	151.8	0.17315	-0.18126	6
AEPW	NORTHEASTERN STATION 345KV	481	-0.01272	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18587	6
AEPW	NORTHEASTERN STATION 345KV	481	-0.01272	OKGE	WOODWARD CO SUB 2	151.8	0.17315	-0.18587	6
AEPW	OEC 345KV	149.9927	-0.01147	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18462	6
AEPW	OEC 345KV	149.9927	-0.01147	OKGE	WOODWARD CO SUB 2	151.8	0.17315	-0.18462	6
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.18203	6
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.18203	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	G12-033 0.6500 34KV	70	-0.06594	-0.18283	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	RKYRDGW1-1 34.500 138KV	150	-0.04642	-0.20235	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	WTH WIND 34.500 34KV	147	-0.05169	-0.19708	6
OMPA	OMPA-PAWUHUSKA NORTHEAST 138KV	6.7	-0.01486	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18801	6
OMPA	OMPA-PAWUHUSKA NORTHEAST 138KV	6.7	-0.01486	OKGE	WOODWARD CO SUB 2	151.8	0.17315	-0.18801	6
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	OKGE	OU SPIRIT 138KV	102	0.17315	-0.20039	6
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	OKGE	WOODWARD CO SUB 2	151.8	0.17315	-0.20039	6
OKGE	REDBUD 345KV	133	-0.02107	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19422	6

Table 4 - Potential Redispach Relief Pairs to Prevent Deferral of Service

OKGE	REBUD 345KV	133	-0.02107	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19422	6
AEPW	RIVERSIDE STATION 138KV	139	-0.0126	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18575	6
AEPW	RIVERSIDE STATION 138KV	139	-0.0126	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18575	6
GRDA	SALINA 161KV	129	-0.00831	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18146	6
GRDA	SALINA 161KV	129	-0.00831	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18146	6
WERE	SALINA MAIN 115KV	7.18	0.0218	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.19437	6
OKGE	SEMINOLE 138KV	344.0723	-0.01869	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19184	6
OKGE	SEMINOLE 138KV	344.0723	-0.01869	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19184	6
OKGE	SEMINOLE 345KV	572.6	-0.01883	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19198	6
OKGE	SEMINOLE 345KV	572.6	-0.01883	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19198	6
OKGE	SMITH COGEN 138KV	16	-0.0238	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19695	6
OKGE	SMITH COGEN 138KV	16	-0.0238	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19695	6
OKGE	SOONER 138KV	5	-0.02314	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19629	6
OKGE	SOONER 138KV	5	-0.02314	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19629	6
OKGE	SOONER 345KV	3	-0.01695	OKGE	OU SPIRIT 138KV	102	0.17315	-0.1901	6
OKGE	SOONER 345KV	3	-0.01695	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.1901	6
WERE	SOUTH SENECA 115KV	8.4	0.01644	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.19973	6
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19774	6
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19774	6
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19435	6
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19435	6
WERE	TECUMSEH ENERGY CENTER 115KV	7	0.01445	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20772	6
OKGE	TINKER 5G 138KV	62	-0.02157	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19472	6
OKGE	TINKER 5G 138KV	62	-0.02157	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19472	6
AEPW	TONTITOWN 161KV	301	-0.00771	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18086	6
AEPW	TONTITOWN 161KV	301	-0.00771	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18086	6
AEPW	TULSA POWER STATION 138KV	307	-0.01243	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18558	6
AEPW	TULSA POWER STATION 138KV	307	-0.01243	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18558	6
AEPW	TURK 138KV	34	-0.00988	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18303	6
AEPW	TURK 138KV	34	-0.00988	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18303	6
AEPW	WELEETKA 138KV	158	-0.01486	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18801	6
AEPW	WELEETKA 138KV	158	-0.01486	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18801	6
AEPW	WELSH 345KV	528	-0.0091	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18225	6
AEPW	WELSH 345KV	528	-0.0091	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18225	6
AEPW	WILKES 138KV	178	-0.00854	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18169	6
AEPW	WILKES 138KV	178	-0.00854	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18169	6
AEPW	WILKES 345KV	4	-0.00838	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18153	6
AEPW	WILKES 345KV	4	-0.00838	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18153	6
WERE	BROWN COUNTY 115KV	5.5	0.01587	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15728	7
WERE	BROWN COUNTY 115KV	5.5	0.01587	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15728	7
WERE	CC5SHAR1 12.470 69KV	10	0.00802	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16513	7
WERE	CC5SHAR1 12.470 69KV	10	0.00802	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16513	7
WERE	CC6SHAR1 12.470 69KV	10	0.00802	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16513	7
WERE	CC6SHAR1 12.470 69KV	10	0.00802	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16513	7
WERE	CHANUTE 69KV	37.8	0.00156	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17159	7
WERE	CHANUTE 69KV	37.8	0.00156	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17159	7
WERE	CITY OF AUGUSTA 69KV	10.89	0.00987	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16328	7
WERE	CITY OF AUGUSTA 69KV	10.89	0.00987	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16328	7
WERE	CITY OF BURLINGTON 69KV	5.2	0.00738	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16577	7
WERE	CITY OF BURLINGTON 69KV	5.2	0.00738	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16577	7
WERE	CITY OF ERIE 69KV	20	0.00156	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17159	7
WERE	CITY OF ERIE 69KV	20	0.00156	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17159	7
WERE	CITY OF IOLA 69KV	27.7415	0.00268	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17047	7
WERE	CITY OF IOLA 69KV	27.7415	0.00268	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17047	7
WERE	CITY OF MULVANE 69KV	4.893109	0.01244	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16071	7
WERE	CITY OF MULVANE 69KV	4.893109	0.01244	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16071	7
WERE	CITY OF WELLINGTON 69KV	4	0.00211	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17104	7
WERE	CITY OF WELLINGTON 69KV	4	0.00211	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17104	7
WERE	CITY OF WINFIELD 69KV	29.1318	-0.00409	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17724	7
WERE	CITY OF WINFIELD 69KV	29.1318	-0.00409	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17724	7
WERE	COFFEY CO SUB 34KV	200	0.00974	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16341	7
WERE	COFFEY CO SUB 34KV	200	0.00974	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16341	7
GRDA	COFFGEN6_1 12.470 69KV	53	-0.00551	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17866	7
GRDA	COFFGEN6_1 12.470 69KV	53	-0.00551	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17866	7
WERE	EMPORIA ENERGY CENTER 345KV	450	0.0159	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15725	7
WERE	EMPORIA ENERGY CENTER 345KV	450	0.0159	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15725	7
WERE	GILL ENERGY CENTER 138KV	34.18262	0.01608	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15707	7
WERE	GILL ENERGY CENTER 138KV	34.18262	0.01608	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15707	7
SWPA	JBOGENE1 13.800 69KV	201.3553	-0.0011	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17425	7
SWPA	JBOGENE1 13.800 69KV	201.3553	-0.0011	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17425	7
WERE	JEFFREY ENERGY CENTER 230KV	55	0.01598	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15717	7
WERE	JEFFREY ENERGY CENTER 230KV	55	0.01598	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15717	7

Table 4 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

Table with 13 columns: Agency, Description, Value, Status, Project Name, Agency, Value, Status, Project Name, Agency, Value, Status, Project Name. Contains various energy center and power plant entries with associated numerical data and status codes.

Table 4 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WFEC	ANADARKO 138KV	284	-0.02514	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.04104	28
WFEC	ANADARKO 138KV	284	-0.02514	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04122	28
WFEC	ANADARKO 138KV	284	-0.02514	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04112	28
WFEC	ANADARKO 138KV	284	-0.02514	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.0411	28
WFEC	ANADARKO 138KV	284	-0.02514	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.04134	28
WFEC	ANADARKO 69KV	70	-0.02636	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01547	-0.04183	28
WFEC	ANADARKO 69KV	70	-0.02636	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.04226	28
WFEC	ANADARKO 69KV	70	-0.02636	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04234	28
WFEC	ANADARKO 69KV	70	-0.02636	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.04232	28
GRDA	BOOMER 69KV	24	-0.02367	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04159	28
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04097	28
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04195	28
OKGE	MUSTANG 69KV	106	-0.02549	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01547	-0.04096	28
OKGE	MUSTANG 69KV	106	-0.02549	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.04139	28
OKGE	MUSTANG 69KV	106	-0.02549	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04157	28
OKGE	MUSTANG 69KV	106	-0.02549	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04147	28
OKGE	MUSTANG 69KV	106	-0.02549	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.04145	28
OKGE	MUSTANG 69KV	106	-0.02549	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.04169	28
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.04169	28
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04172	28
WFEC	ANADARKO 138KV	284	-0.02514	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01547	-0.04061	29
WFEC	ANADARKO 138KV	284	-0.02514	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03959	29
WFEC	ANADARKO 69KV	70	-0.02636	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03971	29
WFEC	ANADARKO 69KV	70	-0.02636	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03997	29
WFEC	ANADARKO 69KV	70	-0.02636	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.04081	29
GRDA	BOOMER 69KV	24	-0.02367	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03957	29
GRDA	BOOMER 69KV	24	-0.02367	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03975	29
GRDA	BOOMER 69KV	24	-0.02367	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03965	29
GRDA	BOOMER 69KV	24	-0.02367	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03963	29
GRDA	BOOMER 69KV	24	-0.02367	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.03987	29
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04009	29
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03993	29
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04011	29
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04001	29
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03999	29
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.04023	29
OKGE	MUSTANG 69KV	106	-0.02549	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03994	29
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	CITY OF MULVANE 69KV	10.89689	0.01244	-0.03968	29
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.04059	29
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.04085	29
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.0397	29
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03988	29
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03978	29
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03976	29
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.04	29
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01547	-0.04006	29
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.04049	29
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04067	29
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04057	29
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.04055	29
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.04079	29
WFEC	ANADARKO 138KV	284	-0.02514	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03849	30
WFEC	ANADARKO 138KV	284	-0.02514	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03875	30
WFEC	ANADARKO 69KV	70	-0.02636	WERE	CITY OF MULVANE 69KV	10.89689	0.01244	-0.03888	30
GRDA	BOOMER 69KV	24	-0.02367	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01547	-0.03914	30
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03825	30
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.03837	30
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01547	-0.03852	30

Table 4 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03895	30
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03913	30
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03903	30
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03901	30
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.03925	30
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01547	-0.0395	30
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03848	30
OKGE	MUSTANG 69KV	106	-0.02549	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03884	30
OKGE	MUSTANG 69KV	106	-0.02549	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.0391	30
OKGE	REDBUD 345KV	133	-0.02107	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03899	30
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01547	-0.03927	30
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03825	30
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03904	30
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03912	30
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03949	30
WFEC	ANADARKO 138KV	284	-0.02514	WERE	CITY OF MULVANE 69KV	10.89689	0.01244	-0.03758	31
GRDA	BOOMER 69KV	24	-0.02367	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03702	31
GRDA	BOOMER 69KV	24	-0.02367	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03728	31
GRDA	BOOMER 69KV	24	-0.02367	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03812	31
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03807	31
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03815	31
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03813	31
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.0375	31
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03738	31
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03764	31
OKGE	MUSTANG 69KV	106	-0.02549	WERE	CITY OF MULVANE 69KV	10.89689	0.01244	-0.03793	31
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.03711	31
OKGE	REDBUD 345KV	133	-0.02107	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03715	31
OKGE	REDBUD 345KV	133	-0.02107	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03705	31
OKGE	REDBUD 345KV	133	-0.02107	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03703	31
OKGE	REDBUD 345KV	133	-0.02107	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.03727	31
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03715	31
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03741	31
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	CITY OF MULVANE 69KV	10.89689	0.01244	-0.03703	31
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03794	31
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.0382	31
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.0371	31
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03728	31
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03718	31
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03716	31
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.0374	31
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03747	31
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03765	31
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03755	31
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03753	31
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.03777	31
WFEC	ANADARKO 69KV	70	-0.02636	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.03623	32
WFEC	ANADARKO 69KV	70	-0.02636	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.0361	32
WFEC	ANADARKO 69KV	70	-0.02636	WERE	WAVERGENT 0.6900 34KV	101	0.00974	-0.0361	32
GRDA	BOOMER 69KV	24	-0.02367	WERE	CITY OF MULVANE 69KV	10.89689	0.01244	-0.03611	32
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03662	32
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.0364	32
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03666	32
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	CITY OF MULVANE 69KV	10.89689	0.01244	-0.03647	32
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03698	32
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	WAVERGENT 0.6900 34KV	101	0.00974	-0.03698	32
OKGE	REDBUD 345KV	133	-0.02107	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03697	32
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03661	32
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03675	32
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	CITY OF MULVANE 69KV	10.89689	0.01244	-0.03624	32
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03602	32
WFEC	ANADARKO 138KV	284	-0.02514	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.03501	32

Table 4 - Potential Redispatch Relief Pairs to Prevent Deferral of Service

WFEC	ANADARKO 138KV	284	-0.02514	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03488	33
WFEC	ANADARKO 138KV	284	-0.02514	WERE	WAVERGENT1 0.6900 34KV	101	0.00974	-0.03488	33
OKGE	G13-029 0.6900 34KV	300	-0.01691	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03483	33
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03552	33
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03578	33
OKGE	MUSTANG 69KV	106	-0.02549	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.03536	33
OKGE	MUSTANG 69KV	106	-0.02549	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03523	33
OKGE	MUSTANG 69KV	106	-0.02549	WERE	WAVERGENT1 0.6900 34KV	101	0.00974	-0.03523	33
OKGE	REDBUD 345KV	133	-0.02107	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03552	33
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.03489	33
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03491	33
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03481	33
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.03503	33
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03481	33
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03565	33
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03492	33
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03518	33
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.0339	34
OKGE	REDBUD 345KV	133	-0.02107	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03442	34
OKGE	REDBUD 345KV	133	-0.02107	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03468	34
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03459	34
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03477	34
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03467	34
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03465	34
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03473	34
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03479	34
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.03446	34
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03433	34
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	WAVERGENT1 0.6900 34KV	101	0.00974	-0.03433	34
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03455	34
WFEC	ANADARKO 69KV	70	-0.02636	WERE	ELK RIVER 345KV	150	0.00654	-0.0329	35
GRDA	BOOMER 69KV	24	-0.02367	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.03354	35
GRDA	BOOMER 69KV	24	-0.02367	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03341	35
GRDA	BOOMER 69KV	24	-0.02367	WERE	WAVERGENT1 0.6900 34KV	101	0.00974	-0.03341	35
OKGE	G13-029 0.6900 34KV	300	-0.01691	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03299	35
OKGE	G13-029 0.6900 34KV	300	-0.01691	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03289	35
OKGE	G13-029 0.6900 34KV	300	-0.01691	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03287	35
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.03292	35
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03377	35
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	WAVERGENT1 0.6900 34KV	101	0.00974	-0.03377	35
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	CANEYWF1 0.6900 34KV	199.8	0.00591	-0.03315	35
OMPA	OMPA-PONCA CITY 69KV	67.41076	-0.02724	WERE	ELK RIVER 345KV	150	0.00654	-0.03378	35
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03314	35
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03328	35
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.03367	35
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03354	35
OKGE	SMITH COGEN 138KV	16	-0.0238	WERE	WAVERGENT1 0.6900 34KV	101	0.00974	-0.03354	35
WFEC	ANADARKO 69KV	70	-0.02636	WERE	CANEYWF1 0.6900 34KV	199.8	0.00591	-0.03227	36
OKGE	G13-029 0.6900 34KV	300	-0.01691	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03281	36
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.03204	36
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03279	36
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	WAVERGENT1 0.6900 34KV	101	0.00974	-0.03279	36
OKGE	MUSTANG 69KV	106	-0.02549	WERE	ELK RIVER 345KV	150	0.00654	-0.03203	36
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03204	36
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.0323	36
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03218	36
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03244	36

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor