



Screening Study SPP-DPT-2015-007

10/29/2015

SPP Engineering, Transmission Service Studies



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Executive Summary

Oklahoma Municipal Power Authority has requested a screening study to determine the impacts on SPP and first-tier third party facilities due to a Delivery Point Transfer of 7 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 1/1/2026.

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 OKGE 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

Oklahoma Municipal Power Authority has requested a screening study to determine the impacts on SPP and first-tier third party facilities for a Delivery Point Transfer of 7 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 OKGE 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 7 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 7 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 7 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 7 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: 7 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	124.4	34.7%	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	107.2	34.7%	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	106.6	34.7%	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	104.9	34.5%	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	104.8	34.5%	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.

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 - 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: 2015AG1AFS41T655520WP
 Date Redispatch Needed: Starting 2020 12/1 - 4/1 Until EOC of Upgrade
 Season Flowgate Identified: 2020 Winter Peak

Reservation	Relief Amount	Aggregate Relief Amount							
81651752	1.4	1.4							
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
WFEC	MORLND 138KV	248.9145	-0.37237	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.58991	2
WFEC	MORLND 138KV	248.9145	-0.37237	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.48916	3
WFEC	MORLND 138KV	248.9145	-0.37237	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.48916	3
WFEC	MORLND 138KV	248.9145	-0.37237	OKGE	OU SPIRIT 138KV	102	0.17438	-0.54675	3
WFEC	MORLND 138KV	248.9145	-0.37237	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.54675	3
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.46463	3
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	OU SPIRIT 138KV	102	0.17438	-0.42147	3
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.42147	3
WFEC	MORLND 138KV	248.9145	-0.37237	WERE	6TH STREET 115KV	2.18	0.01299	-0.38536	4
WFEC	MORLND 138KV	248.9145	-0.37237	OKGE	AES 161KV	320	-0.00848	-0.36389	4
WFEC	MORLND 138KV	248.9145	-0.37237	WFEC	ANADARKO 138KV	363	-0.02551	-0.34686	4
WFEC	MORLND 138KV	248.9145	-0.37237	AEPW	ARSENAL HILL 138KV	509	-0.00795	-0.36442	4
WFEC	MORLND 138KV	248.9145	-0.37237	OKGE	BLKWLWD1 34.500 69KV	59.8	-0.03156	-0.34081	4
WFEC	MORLND 138KV	248.9145	-0.37237	AEPW	BUFFCK1 34.500 230KV	99	-0.02156	-0.35081	4
WFEC	MORLND 138KV	248.9145	-0.37237	OKGE	CANDN12 34.500 345KV	298.2	-0.02317	-0.3492	4
WFEC	MORLND 138KV	248.9145	-0.37237	WERE	CANEYWF1 0.6900 34KV	199.8	0.00523	-0.3776	4
WFEC	MORLND 138KV	248.9145	-0.37237	SWPA	CARTHAGE 161KV	20	-0.00295	-0.36942	4
WFEC	MORLND 138KV	248.9145	-0.37237	OKGE	CHSHMW1 34.500 345KV	202	-0.02036	-0.35201	4
WFEC	MORLND 138KV	248.9145	-0.37237	WERE	CITY OF AUGUSTA 69KV	9.25	0.00889	-0.38126	4
WFEC	MORLND 138KV	248.9145	-0.37237	WERE	CITY OF MULVANE 69KV	4.24721	0.01024	-0.38261	4
WFEC	MORLND 138KV	248.9145	-0.37237	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.38158	4
WFEC	MORLND 138KV	248.9145	-0.37237	AEPW	COGENTRIX 345KV	512.9825	-0.01317	-0.3592	4
WFEC	MORLND 138KV	248.9145	-0.37237	AEPW	COMANCHE 138KV	170	-0.01853	-0.35384	4
WFEC	MORLND 138KV	248.9145	-0.37237	AEPW	COMANCHE 69KV	71	-0.01992	-0.35245	4
WFEC	MORLND 138KV	248.9145	-0.37237	WFEC	COMANCHE CO SUB 34KV	100	-0.02584	-0.34653	4
WFEC	MORLND 138KV	248.9145	-0.37237	AEPW	EASTMAN 138KV	289.1176	-0.00866	-0.36371	4
WFEC	MORLND 138KV	248.9145	-0.37237	WERE	ELK RIVER 345KV	150	0.00583	-0.3782	4
WFEC	MORLND 138KV	248.9145	-0.37237	AEPW	FLINT CREEK 161KV	528	-0.00753	-0.36484	4
WFEC	MORLND 138KV	248.9145	-0.37237	WERE	FR2E2WF1 0.6900 34KV	100.8109	0.0017	-0.37407	4
WFEC	MORLND 138KV	248.9145	-0.37237	WERE	FR2E2WF1 0.6900 34KV	100.8109	0.0017	-0.37407	4
WFEC	MORLND 138KV	248.9145	-0.37237	WERE	FR2W1WF1 0.6900 34KV	129.8491	0.0017	-0.37407	4
WFEC	MORLND 138KV	248.9145	-0.37237	WERE	FR2W2WF1 0.6900 34KV	128.5292	0.0017	-0.37407	4
WFEC	MORLND 138KV	248.9145	-0.37237	AEPW	G10-055 4 1600 13KV	3	-0.01328	-0.35911	4
WFEC	MORLND 138KV	248.9145	-0.37237	WERE	G11 057 3 0 6900 34KV	200	-0.00845	-0.36391	4
WFEC	MORLND 138KV	248.9145	-0.37237	GRDA	G13-028ST 17.500 345KV	263.6025	-0.00845	-0.36392	4
WFEC	MORLND 138KV	248.9145	-0.37237	OKGE	GRADY CO SUB 345KV	199	-0.02254	-0.34983	4
WFEC	MORLND 138KV	248.9145	-0.37237	GRDA	GRDA1 345KV	300	-0.00842	-0.36395	4
WFEC	MORLND 138KV	248.9145	-0.37237	WFEC	HUGO 138KV	440	-0.01348	-0.35889	4
WFEC	MORLND 138KV	248.9145	-0.37237	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.38805	4
WFEC	MORLND 138KV	248.9145	-0.37237	WERE	JEFFREY ENERGY CENTER 345KV	1210.189	0.01559	-0.38796	4
WFEC	MORLND 138KV	248.9145	-0.37237	OKGE	KAYWIND12 0.7000 34KV	280	-0.0058	-0.36657	4
WFEC	MORLND 138KV	248.9145	-0.37237	SWPA	KENNETT 69KV	12.033	-0.00033	-0.37204	4
WFEC	MORLND 138KV	248.9145	-0.37237	WERE	LAWRENCE ENERGY CENTER 230KV	140	0.01328	-0.38565	4
WFEC	MORLND 138KV	248.9145	-0.37237	AEPW	LEBROCK 345KV	379.3775	-0.00864	-0.36373	4
WFEC	MORLND 138KV	248.9145	-0.37237	SWPA	MALDEN 69KV	3.918	-0.00002	-0.37235	4
WFEC	MORLND 138KV	248.9145	-0.37237	OKGE	MCCLAIN4 138.00 138KV	20	-0.02377	-0.3486	4
WFEC	MORLND 138KV	248.9145	-0.37237	WFEC	MEERS CO SUB 138KV	74.25	-0.02584	-0.34653	4
WFEC	MORLND 138KV	248.9145	-0.37237	OKGE	MNCWIND31 34.500 345KV	100	-0.02254	-0.34983	4
WFEC	MORLND 138KV	248.9145	-0.37237	OKGE	MUSKOGEE 345KV	1336	-0.01276	-0.35961	4
WFEC	MORLND 138KV	248.9145	-0.37237	AEPW	NORTHEASTERN STATION 138KV	785	-0.01064	-0.36173	4
WFEC	MORLND 138KV	248.9145	-0.37237	AEPW	NORTHEASTERN STATION 345KV	460	-0.01283	-0.35954	4
WFEC	MORLND 138KV	248.9145	-0.37237	AEPW	OEC 345KV	1230	-0.01198	-0.36039	4
WFEC	MORLND 138KV	248.9145	-0.37237	OMPA	ONAPA-PONCA CITY 69KV	19.16794	-0.02626	-0.34542	4
WFEC	MORLND 138KV	248.9145	-0.37237	OKGE	ORIGIN21 0.6900 34KV	149	-0.01704	-0.35533	4
WFEC	MORLND 138KV	248.9145	-0.37237	SWPA	PARAGOULD 161KV	8.58	-0.00082	-0.37155	4
WFEC	MORLND 138KV	248.9145	-0.37237	AEPW	PIRKEY GENERATION 138KV	675	-0.00864	-0.36373	4
WFEC	MORLND 138KV	248.9145	-0.37237	SWPA	POPLAR BLUFF 161KV	26.67	0.00033	-0.3727	4
WFEC	MORLND 138KV	248.9145	-0.37237	OKGE	REDBUD 345KV	936.0001	-0.02185	-0.35052	4
WFEC	MORLND 138KV	248.9145	-0.37237	AEPW	RIVERSIDE STATION 138KV	110.6704	-0.01313	-0.35924	4
WFEC	MORLND 138KV	248.9145	-0.37237	AEPW	RKYRDOG11 34.500 138KV	150	-0.04273	-0.32964	4
WFEC	MORLND 138KV	248.9145	-0.37237	AEPW	ROARK1 0.7000 34KV	98	-0.02156	-0.35081	4
WFEC	MORLND 138KV	248.9145	-0.37237	WERE	S ALMA 3 115.00 115KV	10.5	0.01596	-0.38833	4
WFEC	MORLND 138KV	248.9145	-0.37237	OKGE	SEMINOLE 138KV	80	-0.01946	-0.35291	4
WFEC	MORLND 138KV	248.9145	-0.37237	OKGE	SEMINOLE 345KV	155.5215	-0.01959	-0.35278	4
WFEC	MORLND 138KV	248.9145	-0.37237	WERE	SHEFFIELD 69KV	1.85	-0.00045	-0.37192	4
WFEC	MORLND 138KV	248.9145	-0.37237	SWPA	SIKESTON 161KV	235	0.00058	-0.37295	4
WFEC	MORLND 138KV	248.9145	-0.37237	OKGE	SOONER 138KV	535	-0.02319	-0.34918	4
WFEC	MORLND 138KV	248.9145	-0.37237	OKGE	SOONER 345KV	537	-0.01726	-0.35511	4
WFEC	MORLND 138KV	248.9145	-0.37237	WERE	SOUTH SENECA 115KV	4	0.0157	-0.38807	4
WFEC	MORLND 138KV	248.9145	-0.37237	OKGE	SPRING CREEK UNIT 3 AND 4 34KV	300	-0.022	-0.35037	4
WFEC	MORLND 138KV	248.9145	-0.37237	AEPW	TURK 138KV	650	-0.01042	-0.36195	4
WFEC	MORLND 138KV	248.9145	-0.37237	WERE	WAVERGEN1 0.6900 34KV	101	0.00921	-0.38158	4
WFEC	MORLND 138KV	248.9145	-0.37237	AEPW	WELSH 345KV	1056	-0.00959	-0.36278	4
WFEC	MORLND 138KV	248.9145	-0.37237	AEPW	WILKES 138KV	70	-0.009	-0.36337	4
WFEC	MORLND 138KV	248.9145	-0.37237	AEPW	WTH WIND 34.500 34KV	147	-0.04923	-0.32314	4
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.36388	4
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.36388	4
WFEC	MORLND 138KV	248.9145	-0.37237	OKGE	DEWEY CO SUB 4 138KV	130	-0.07887	-0.2935	5
WFEC	MORLND 138KV	248.9145	-0.37237	OKGE	G12-033 0.6500 34KV	70	-0.06575	-0.30662	5
WFEC	MORLND 138KV	248.9145	-0.37237	WFEC	HAMMON CO SUB 138KV	114	-0.07172	-0.30065	5
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06687	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.28411	5
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	6TH STREET 115KV	2.18	0.01299	-0.26008	5
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	CANEYWF1 0.6900 34KV	199.8	0.00523	-0.25232	5
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	CITY OF AUGUSTA 69KV	9.25	0.00889	-0.25598	5
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	CITY OF MULVANE 69KV	4.24721	0.01024	-0.25733	5
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.2563	5
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	ELK RIVER 345KV	150	0.00583	-0.25292	5
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.26277	5
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	JEFFREY ENERGY CENTER 345KV	1210.189	0.01559	-0.26268	5
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	LAWRENCE ENERGY CENTER 230KV	140	0.01328	-0.26037	5
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	S ALMA 3 115.00 115KV	10.5	0.01596	-0.26305	5
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	SOUTH SENECA 115KV	4	0.0157	-0.26279	5
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	WAVERGEN1 0.6900 34KV	101	0.00921	-0.2563	5
OMPA	OMPA-MANGUM 69KV	5.198	-0.04359	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.26113	5
WFEC	ANADARKO 138KV	284	-0.02551	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.24305	6
WFEC	ANADARKO 69KV	70	-0.02726	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.2448	6
AEPW	ARSENAL HILL 138KV	25	-0.00795	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22549	6

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

AEPW	ARSENAL HILL 69KV	110	-0.00796	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.2255	6
GRDA	BOOMER 69KV	24	-0.02371	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.24125	6
WERE	CHANUTE 69KV	55.818	0.00104	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.2165	6
WERE	CITY OF ERIE 69KV	20	0.00104	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.2165	6
WERE	CITY OF IOLA 69KV	34.933	0.02217	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.21537	6
WERE	CITY OF WELLINGTON 69KV	43.34688	0.00083	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.21671	6
WERE	CITY OF WINFIELD 69KV	36.8	-0.00348	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22102	6
GRDA	COFFGEN6 1 12.470 69KV	53	-0.00597	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22351	6
AEPW	COGENTRIX 345KV	381.0175	-0.01317	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.23071	6
AEPW	COMANCHE 138KV	13	-0.01853	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.23607	6
AEPW	COMANCHE 69KV	12	-0.01992	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.23746	6
AEPW	EASTMAN 138KV	195.8924	-0.00866	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.2262	6
AEPW	ELKINS GENERATOR 69KV	60	-0.00818	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22572	6
AEPW	FITZHUGH 161KV	165	-0.00761	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22515	6
AEPW	FULTON 115KV	153	-0.0093	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22684	6
WERE	G11_057_3 0.6900 34KV	151.4	-0.00846	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.226	6
OMPA	G12-041 18.000 345KV	121.5	-0.00942	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22696	6
GRDA	G13-028ST 17.500 345KV	295.8975	-0.00845	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22599	6
GRDA	GRDA1 161KV	490	-0.00891	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22645	6
GRDA	GRDA1 345KV	220	-0.00842	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22596	6
OKGE	HORSESHOE LAKE 138KV	875	-0.02287	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.24041	6
OKGE	HORSESHOE LAKE 69KV	16	-0.02249	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.24003	6
SWPA	IBOGENE1 13.800 69KV	270.8	-0.00122	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.21876	6
SWPA	KENNETT 69KV	22.267	-0.00033	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.21787	6
AEPW	KNOXLEE 138KV	475	-0.0086	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22614	6
AEPW	LEBROCK 345KV	156.6225	-0.00864	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22618	6
AEPW	LIEBERMAN 138KV	242	-0.00808	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22562	6
AEPW	LONESTAR POWER PLANT 69KV	50	-0.00911	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22665	6
SWPA	MALDEN 69KV	10.282	-0.00002	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.21756	6
OKGE	MCCLAIN 138KV	520	-0.02377	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.24131	6
OKGE	MCCLAINA 138 00 138KV	8	-0.02377	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.24131	6
OKGE	MUSKOGEE 345KV	244	-0.01276	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.2303	6
OKGE	MUSTANG 138KV	370.5	-0.02472	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.24226	6
OKGE	MUSTANG 69KV	106	-0.02613	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.24367	6
AEPW	NORTH MARSHALL 69KV	5	-0.00855	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22609	6
AEPW	NORTHEASTERN STATION 138KV	133	-0.01064	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22818	6
AEPW	NORTHEASTERN STATION 345KV	481	-0.01283	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.23037	6
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	OKGE	OU SPIRIT 138KV	102	0.17438	-0.24095	6
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.24095	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	AES 161KV	320	-0.00848	-0.23861	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WFEC	ANADARKO 138KV	363	-0.02551	-0.22158	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	ARSENAL HILL 138KV	509	-0.00795	-0.23914	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	BLKWLWD1 34.500 69KV	59.8	-0.03156	-0.21553	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	BLUFFCK 34.500 230KV	99	-0.02156	-0.22553	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	CANDY 2 34.500 345KV	298.2	-0.02317	-0.22392	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	SWPA	CARTHAGE 161KV	20	-0.00295	-0.24414	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	CHSHMW1 34.500 345KV	202	-0.02036	-0.22673	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	COGENTRIX 345KV	512.9825	-0.01317	-0.23392	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	COMANCHE 138KV	170	-0.01853	-0.22856	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	COMANCHE 69KV	71	-0.01992	-0.22717	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WFEC	COMMANCHE CO SUB 34KV	100	-0.02584	-0.22125	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	EASTMAN 138KV	289.1176	-0.00866	-0.23843	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	FLINT CREEK 161KV	528	-0.00753	-0.23956	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	FR2E1WF1 0.6900 34KV	100.8109	0.0017	-0.24879	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	FR2E2WF1 0.6900 34KV	100.8109	0.0017	-0.24879	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	FR2W1WF1 0.6900 34KV	129.8491	0.0017	-0.24879	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	FR2W2WF1 0.6900 34KV	128.5292	0.0017	-0.24879	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	G10-055 4.1600 13KV	3	-0.01326	-0.23383	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	G11_057_3 0.6900 34KV	200	-0.00846	-0.23863	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	GRDA	G13-028ST 17.500 345KV	263.6025	-0.00845	-0.23864	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	GRADY CO SUB 345KV	190	-0.02254	-0.22455	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	GRDA	GRDA1 345KV	300	-0.00842	-0.23867	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WFEC	HUGO 138KV	440	-0.01348	-0.23361	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	KAYWIND12 0.7000 34KV	280	-0.0058	-0.24129	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	SWPA	KENNETT 69KV	12.033	-0.00033	-0.24676	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	LEBROCK 345KV	379.3775	-0.00864	-0.23845	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	SWPA	MALDEN 69KV	3.918	-0.00002	-0.24707	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	MCCLAINA 138 00 138KV	20	-0.02377	-0.22332	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	MERSER CO SUB 138KV	74.25	-0.02584	-0.22125	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	MNCWIND31 34.500 345KV	100	-0.02254	-0.22455	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	MUSKOGEE 345KV	1336	-0.01276	-0.23433	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	NORTHEASTERN STATION 138KV	785	-0.01064	-0.23645	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	NORTHEASTERN STATION 345KV	460	-0.01283	-0.23426	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	OEC 345KV	1230	-0.01198	-0.23511	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OMPA	OMPA-PONCA CITY 69KV	19.16794	-0.02695	-0.22014	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	ORIGIN2 0.6900 34KV	149	-0.01704	-0.23005	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	SWPA	PARAGOULD 161KV	8.58	-0.00082	-0.24627	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	PIRKEY GENERATION 138KV	675	-0.00864	-0.23845	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	SWPA	POPLAR BLUFF 161KV	26.67	0.00033	-0.24742	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	REDBUD 345KV	936.0001	-0.02185	-0.22524	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	RIVERSIDE STATION 138KV	110.6704	-0.01313	-0.23396	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	ROARK1 0.7000 34KV	99	-0.02156	-0.22553	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	SEMINOLE 138KV	80	-0.01946	-0.22763	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	SEMINOLE 345KV	155.5215	-0.01959	-0.2275	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	SWPA	SIKESTON 161KV	235	0.00058	-0.24767	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	SOONER 138KV	535	-0.02319	-0.2239	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	SOONER 345KV	537	-0.01726	-0.22983	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	SPRING CREEK UNIT 3 AND 4 345KV	300	-0.022	-0.22509	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	TURK 138KV	650	-0.01042	-0.23667	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	WELSH 345KV	1056	-0.00959	-0.2375	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	WILKES 138KV	70	-0.008	-0.23809	6
OMPA	OMPA-MANGUM 69KV	5.198	-0.04359	OKGE	OU SPIRIT 138KV	102	0.17438	-0.21797	6
OMPA	OMPA-MANGUM 69KV	5.198	-0.04359	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.21797	6
OMPA	OMPA-PAWUSKA NORTHEAST 138KV	6.7	-0.01512	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.23266	6
OMPA	OMPA-PONCA CITY 69KV	121.5351	-0.02695	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.24449	6
WERE	OXFORD 138KV	4.5	0.00047	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.21707	6
SWPA	PARAGOULD 161KV	22.42	-0.00082	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.21836	6
SWPA	PIGGOTT 69KV	7.5	-0.00022	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.21776	6
SWPA	POPLAR BLUFF 161KV	7.129989	0.00033	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.21721	6
OKGE	REDBUD 345KV	411.5	-0.02185	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.23958	6
AEPW	RIVERSIDE STATION 138KV	948.3297	-0.01313	OKGE	CENT 21 34.500 138KV				

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

AEPW	WILKES 138KV	408	-0.009	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22654	6
AEPW	WILKES 345KV	360	-0.00884	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22638	6
WERE	AEC W1 34.500 115KV	3.65	0.01946	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.19808	7
WFEC	ANADARKO 138KV	284	-0.02551	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19989	7
WFEC	ANADARKO 138KV	284	-0.02551	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19989	7
WFEC	ANADARKO 69KV	70	-0.02726	OKGE	OU SPIRIT 138KV	102	0.17438	-0.20164	7
WFEC	ANADARKO 69KV	70	-0.02726	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.20164	7
GRDA	BOOMER 69KV	24	-0.02371	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19809	7
GRDA	BOOMER 69KV	24	-0.02371	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19809	7
WERE	BPU - CITY OF MCPHERSON 115KV	245	0.02348	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.19406	7
WERE	BROWN COUNTY 115KV	5.5	0.01512	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20242	7
WERE	CCSSHART 12.470 69KV	10	0.00747	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.21007	7
WERE	CCSSHART 12.470 69KV	10	0.00747	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.21007	7
WERE	CITY OF AUGUSTA 69KV	18.09	0.00889	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20865	7
WERE	CITY OF BURLINGTON 69KV	12.5	0.00684	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.2107	7
WERE	CITY OF MULVANE 69KV	11.54279	0.01024	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.2073	7
WERE	CITY OF OSAGE CITY 115KV	10.07451	0.01511	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20243	7
WERE	CLAYGEN1 13.200 115KV	29.67	0.01821	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.19933	7
WERE	COFFEY CO SUB 34KV	200	0.00921	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20833	7
AEPW	COGENTRIX 345KV	381.0175	-0.01317	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18755	7
AEPW	COGENTRIX 345KV	381.0175	-0.01317	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18755	7
AEPW	COMANCHE 138KV	13	-0.01853	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19291	7
AEPW	COMANCHE 138KV	13	-0.01853	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19291	7
AEPW	COMANCHE 69KV	12	-0.01992	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1943	7
AEPW	COMANCHE 69KV	12	-0.01992	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1943	7
WERE	EMPORIA ENERGY CENTER 345KV	740	0.01558	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20196	7
WERE	EVANS ENERGY CENTER 138KV	872	0.01645	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20109	7
AEPW	G14-074 345.00 345KV	200	0.02809	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.19145	7
WERE	GILL ENERGY CENTER 138KV	194	0.01133	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20621	7
WERE	HOLTON 115KV	6.01	0.01462	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20292	7
OKGE	HORSESHOE LAKE 138KV	875	-0.02287	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19725	7
OKGE	HORSESHOE LAKE 138KV	875	-0.02287	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19725	7
OKGE	HORSESHOE LAKE 69KV	16	-0.02249	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19687	7
OKGE	HORSESHOE LAKE 69KV	16	-0.02249	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19687	7
WERE	HUTCHINSON ENERGY CENTER 115KV	357	0.02354	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.194	7
WERE	HUTCHINSON ENERGY CENTER 69KV	56	0.02359	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.19395	7
WERE	JEFFREY ENERGY CENTER 230KV	65	0.01568	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20186	7
WERE	JEFFREY ENERGY CENTER 345KV	379.811	0.01559	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20195	7
WERE	LAWRENCE ENERGY CENTER 115KV	165	0.01302	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20452	7
WERE	LAWRENCE ENERGY CENTER 230KV	240	0.01328	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20436	7
WERE	MARSHGEN1 0.6900 34KV	73.8	0.0167	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20084	7
OKGE	MCCLAIN 138KV	520	-0.02377	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19815	7
OKGE	MCCLAIN 138KV	520	-0.02377	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19815	7
OKGE	MCCLAIN4 138.00 138KV	8	-0.02377	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19815	7
OKGE	MCCLAIN4 138.00 138KV	8	-0.02377	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19815	7
WERE	MUSCOTA2 69.000 69KV	5.55	0.01303	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20451	7
OKGE	MUSKOGEE 345KV	244	-0.01276	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18714	7
OKGE	MUSKOGEE 345KV	244	-0.01276	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18714	7
OKGE	MUSTANG 138KV	370.5	-0.02472	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1991	7
OKGE	MUSTANG 138KV	370.5	-0.02472	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1991	7
OKGE	MUSTANG 69KV	106	-0.02613	OKGE	OU SPIRIT 138KV	102	0.17438	-0.20051	7
OKGE	MUSTANG 69KV	106	-0.02613	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.20051	7
AEPW	NORTHEASTERN STATION 138KV	133	-0.01064	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18502	7
AEPW	NORTHEASTERN STATION 138KV	133	-0.01064	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18502	7
AEPW	NORTHEASTERN STATION 345KV	481	-0.01283	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18721	7
AEPW	NORTHEASTERN STATION 345KV	481	-0.01283	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18721	7
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	RKYRDDW1 1 34.500 138KV	147	-0.04273	-0.20436	7
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	WTH WIND 34.500 34KV	147	-0.04923	-0.19786	7
OMPA	OMPA-PAWHUSKA NORTHEAST 138KV	6.7	-0.01512	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1895	7
OMPA	OMPA-PAWHUSKA NORTHEAST 138KV	6.7	-0.01512	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1895	7
OMPA	OMPA-PONCA CITY 69KV	121.5351	-0.02695	OKGE	OU SPIRIT 138KV	102	0.17438	-0.20133	7
OMPA	OMPA-PONCA CITY 69KV	121.5351	-0.02695	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.20133	7
OKGE	REDDUB 345KV	411.5	-0.02185	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19623	7
OKGE	REDDUB 345KV	411.5	-0.02185	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19623	7
AEPW	RIVERSIDE STATION 138KV	948.3297	-0.01313	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18751	7
AEPW	RIVERSIDE STATION 138KV	948.3297	-0.01313	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18751	7
WERE	SALINA MAIN 115KV	10.18	0.02128	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.19626	7
WERE	SCRANTON 115KV	4.08	0.01486	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20268	7
OKGE	SEMINOLE 138KV	425	-0.01946	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19384	7
OKGE	SEMINOLE 138KV	425	-0.01946	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19384	7
OKGE	SEMINOLE 345KV	874.0786	-0.01959	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19397	7
OKGE	SEMINOLE 345KV	874.0786	-0.01959	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19397	7
OKGE	SMITH COGEN 138KV	123	-0.02447	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19885	7
OKGE	SMITH COGEN 138KV	123	-0.02447	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19885	7
OKGE	SOONER 138KV	5	-0.02319	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19757	7
OKGE	SOONER 138KV	5	-0.02319	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19757	7
OKGE	SOONER 345KV	3	-0.01726	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19164	7
OKGE	SOONER 345KV	3	-0.01726	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19164	7
WERE	SOUTH SENECA 115KV	12.7	0.0157	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20184	7
AEPW	SOUTHWESTERN STATION 138KV	636	-0.02537	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19975	7
AEPW	SOUTHWESTERN STATION 138KV	636	-0.02537	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19975	7
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.022	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19638	7
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.022	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19638	7
WERE	TECUMSEH ENERGY CENTER 115KV	204	0.01408	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20346	7
OKGE	TINKER SG 138KV	62	-0.02233	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19671	7
OKGE	TINKER SG 138KV	62	-0.02233	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19671	7
AEPW	TULSA POWER STATION 138KV	307	-0.01296	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18734	7
AEPW	TULSA POWER STATION 138KV	307	-0.01296	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18734	7
AEPW	TURK 138KV	34	-0.01042	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1848	7
AEPW	TURK 138KV	34	-0.01042	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1848	7
AEPW	WELEETKA 138KV	198	-0.01546	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18984	7
AEPW	WELEETKA 138KV	198	-0.01546	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18984	7
AEPW	ARSENAL HILL 138KV	25	-0.00795	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18233	8
AEPW	ARSENAL HILL 138KV	25	-0.00795	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18233	8
AEPW	ARSENAL HILL 69KV	110	-0.00796	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18234	8
AEPW	ARSENAL HILL 69KV	110	-0.00796	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18234	8
WERE	CCSSHART 12.470 69KV	10	0.00747	OKGE	OU SPIRIT 138KV	102	0.17438	-0.16691	8
WERE	CCSSHART 12.470 69KV	10	0.00747	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.16691	8
WERE	CCSSHART 12.470 69KV	10	0.00747	OKGE	OU SPIRIT 138KV	102	0.17438	-0.16691	8
WERE	CCSSHART 12.470 69KV	10	0.00747	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.16691	8
WERE	CHANUTE 69KV	55.818	0.00104	OKGE	OU SPIRIT 138KV	102	0.17438	-0.17334	8

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

WERE	CITY OF MULVANE 69KV	11.54279	0.01024	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.16414	8
WERE	CITY OF WELLINGTON 69KV	43.34688	0.00083	OKGE	OU SPIRIT 138KV	102	0.17438	-0.17355	8
WERE	CITY OF WELLINGTON 69KV	43.34688	0.00083	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.17355	8
WERE	CITY OF WINFIELD 69KV	36.8	-0.00348	OKGE	OU SPIRIT 138KV	102	0.17438	-0.17786	8
WERE	CITY OF WINFIELD 69KV	36.8	-0.00348	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.17786	8
WERE	COFFEY CO SUB 34KV	200	0.00921	OKGE	OU SPIRIT 138KV	102	0.17438	-0.16517	8
WERE	COFFEY CO SUB 34KV	200	0.00921	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.16517	8
GRDA	COFFGEN6 1 12.470 69KV	53	-0.00597	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18035	8
GRDA	COFFGEN6 1 12.470 69KV	53	-0.00597	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18035	8
AEPW	EASTMAN 138KV	195.8924	-0.00866	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18304	8
AEPW	EASTMAN 138KV	195.8924	-0.00866	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18304	8
AEPW	ELKINS GENERATOR 69KV	60	-0.00818	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18256	8
AEPW	ELKINS GENERATOR 69KV	60	-0.00818	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18256	8
AEPW	FITZHUGH 161KV	165	-0.00761	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18199	8
AEPW	FITZHUGH 161KV	165	-0.00761	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18199	8
AEPW	FULTON 115KV	153	-0.0093	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18368	8
AEPW	FULTON 115KV	153	-0.0093	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18368	8
WERE	G11_057_3 0.6900 34KV	151.4	-0.00846	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18284	8
WERE	G11_057_3 0.6900 34KV	151.4	-0.00846	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18284	8
OMPA	G12-041 18.000 345KV	121.5	-0.00942	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1838	8
OMPA	G12-041 18.000 345KV	121.5	-0.00942	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1838	8
GRDA	G13-028ST 17.500 345KV	295.8975	-0.00845	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18283	8
GRDA	G13-028ST 17.500 345KV	295.8975	-0.00845	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18283	8
WERE	GILL ENERGY CENTER 138KV	194	0.01133	OKGE	OU SPIRIT 138KV	102	0.17438	-0.16305	8
WERE	GILL ENERGY CENTER 138KV	194	0.01133	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.16305	8
GRDA	GRDA1 161KV	490	-0.00891	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18329	8
GRDA	GRDA1 161KV	490	-0.00891	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18329	8
GRDA	GRDA1 345KV	220	-0.00842	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1828	8
GRDA	GRDA1 345KV	220	-0.00842	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1828	8
SWPA	JBOGENE1 13.800 69KV	270.8	-0.0122	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1756	8
SWPA	JBOGENE1 13.800 69KV	270.8	-0.0122	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1756	8
SWPA	KENNETT 69KV	22.267	-0.00033	OKGE	OU SPIRIT 138KV	102	0.17438	-0.17471	8
SWPA	KENNETT 69KV	22.267	-0.00033	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.17471	8
AEPW	KNOXLEE 138KV	475	-0.0086	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18298	8
AEPW	KNOXLEE 138KV	475	-0.0086	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18298	8
AEPW	LEBROCK 345KV	156.6225	-0.00864	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18302	8
AEPW	LEBROCK 345KV	156.6225	-0.00864	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18302	8
AEPW	LIBERMAN 138KV	242	-0.00808	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18246	8
AEPW	LIBERMAN 138KV	242	-0.00808	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18246	8
AEPW	LONESTAR POWER PLANT 69KV	50	-0.00911	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18349	8
AEPW	LONESTAR POWER PLANT 69KV	50	-0.00911	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18349	8
SWPA	MALDEN 69KV	10.282	-0.00002	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1744	8
SWPA	MALDEN 69KV	10.282	-0.00002	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1744	8
AEPW	NORTH MARSHALL 69KV	5	-0.00855	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18293	8
AEPW	NORTH MARSHALL 69KV	5	-0.00855	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18293	8
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.18336	8
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.18336	8
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	DEWEY CO SUB 4 138KV	130	-0.07887	-0.16822	8
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	G12-033 0.6500 34KV	70	-0.06575	-0.18134	8
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WFCE	HAMMON CO SUB 138KV	114	-0.07172	-0.17537	8
WERE	OXFORD 138KV	4.5	0.00047	OKGE	OU SPIRIT 138KV	102	0.17438	-0.17391	8
WERE	OXFORD 138KV	4.5	0.00047	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.17391	8
SWPA	PARAGOULD 161KV	22.42	-0.00082	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1752	8
SWPA	PARAGOULD 161KV	22.42	-0.00082	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1752	8
SWPA	PIGGOTT 69KV	7.5	-0.00022	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1746	8
SWPA	PIGGOTT 69KV	7.5	-0.00022	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1746	8
SWPA	POPLAR BLUFF 161KV	7.129999	0.00033	OKGE	OU SPIRIT 138KV	102	0.17438	-0.17405	8
SWPA	POPLAR BLUFF 161KV	7.129999	0.00033	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.17405	8
GRDA	SALINA 161KV	129	-0.00875	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18313	8
GRDA	SALINA 161KV	129	-0.00875	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18313	8
AEPW	TONTITOWN 161KV	313	-0.00815	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18253	8
AEPW	TONTITOWN 161KV	313	-0.00815	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18253	8
AEPW	WELSH 345KV	528	-0.00959	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18397	8
AEPW	WELSH 345KV	528	-0.00959	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18397	8
AEPW	WILKES 138KV	408	-0.009	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18338	8
AEPW	WILKES 138KV	408	-0.009	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18338	8
AEPW	WILKES 345KV	360	-0.00884	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18322	8
AEPW	WILKES 345KV	360	-0.00884	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18322	8
WERE	AEC W1 34.500 115KV	3.65	0.01946	OKGE	OU SPIRIT 138KV	102	0.17438	-0.15492	9
WERE	AEC W1 34.500 115KV	3.65	0.01946	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.15492	9
WERE	BPU - CITY OF MCPHERSON 115KV	245	0.02348	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1509	9
WERE	BPU - CITY OF MCPHERSON 115KV	245	0.02348	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1509	9
WERE	BROWN COUNTY 115KV	5.5	0.01512	OKGE	OU SPIRIT 138KV	102	0.17438	-0.15926	9
WERE	BROWN COUNTY 115KV	5.5	0.01512	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.15926	9
WERE	CITY OF OSAGE CITY 115KV	10.07451	0.01511	OKGE	OU SPIRIT 138KV	102	0.17438	-0.15927	9
WERE	CITY OF OSAGE CITY 115KV	10.07451	0.01511	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.15927	9
WERE	CLAYGEN1 13.200 115KV	29.67	0.01821	OKGE	OU SPIRIT 138KV	102	0.17438	-0.15617	9
WERE	CLAYGEN1 13.200 115KV	29.67	0.01821	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.15617	9
WERE	EMPORIA ENERGY CENTER 345KV	740	0.01558	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1588	9
WERE	EMPORIA ENERGY CENTER 345KV	740	0.01558	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1588	9
WERE	EVANS ENERGY CENTER 138KV	872	0.01645	OKGE	OU SPIRIT 138KV	102	0.17438	-0.15793	9
WERE	EVANS ENERGY CENTER 138KV	872	0.01645	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.15793	9
AEPW	G14-074 345.00 345KV	200	0.02609	OKGE	OU SPIRIT 138KV	102	0.17438	-0.14829	9
AEPW	G14-074 345.00 345KV	200	0.02609	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.14829	9
WERE	HOLTON 115KV	6.01	0.01462	OKGE	OU SPIRIT 138KV	102	0.17438	-0.15976	9
WERE	HOLTON 115KV	6.01	0.01462	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.15976	9
WERE	HUTCHINSON ENERGY CENTER 115KV	357	0.02354	OKGE	OU SPIRIT 138KV	102	0.17438	-0.15084	9
WERE	HUTCHINSON ENERGY CENTER 115KV	357	0.02354	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.15084	9
WERE	HUTCHINSON ENERGY CENTER 69KV	56	0.02359	OKGE	OU SPIRIT 138KV	102	0.17438	-0.15079	9
WERE	HUTCHINSON ENERGY CENTER 69KV	56	0.02359	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.15079	9
WERE	JEFFREY ENERGY CENTER 230KV	65	0.01568	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1587	9
WERE	JEFFREY ENERGY CENTER 230KV	65	0.01568	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1587	9
WERE	JEFFREY ENERGY CENTER 345KV	379.811	0.01559	OKGE	OU SPIRIT 138KV	102	0.17438	-0.15879	9
WERE	JEFFREY ENERGY CENTER 345KV	379.811	0.01559	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.15879	9
WERE	LAWRENCE ENERGY CENTER 115KV	165	0.01302	OKGE	OU SPIRIT 138KV	102	0.17438	-0.16136	9
WERE	LAWRENCE ENERGY CENTER 115KV	165	0.01302	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.16136	9
WERE	LAWRENCE ENERGY CENTER 230KV	240	0.01328	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1611	9
WERE	LAWRENCE ENERGY CENTER 230KV	240	0.01328	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1611	9
WERE	MARSHGEN1 0.6900 34KV	73.8	0.0167	OKGE	OU SPIRIT 138KV	102	0.17438	-0.15768	9
WERE	MARSHGEN1 0.6900 34KV	73.8	0.0167	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.15768	9
WERE	MUSCOTA2 69.000 69KV	5.55	0.01303	OKGE	OU SPIRIT 138KV	102	0.17438	-0.16135	9
WERE	MUSCOTA2 69.000 69KV	5.55	0.01303	OKGE	WOODWARD CO SUB				

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

WERE	SOUTH SENECA 115KV	12.7	0.0157	OKGE	OU SPIRIT 138KV	102	0.17438	-0.15868	9
WERE	SOUTH SENECA 115KV	12.7	0.0157	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.15868	9
WERE	TECUMSEH ENERGY CENTER 115KV	204	0.01408	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1603	9
WERE	TECUMSEH ENERGY CENTER 115KV	204	0.01408	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1603	9
WFEC	ANADARKO 138KV	284	-0.02551	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.1423	10
WFEC	ANADARKO 138KV	284	-0.02551	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.1423	10
WFEC	ANADARKO 69KV	70	-0.02726	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.14405	10
WFEC	ANADARKO 69KV	70	-0.02726	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.14405	10
GRDA	BOOMER 69KV	24	-0.02371	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.1405	10
GRDA	BOOMER 69KV	24	-0.02371	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.1405	10
AEPW	COMANCHE 138KV	13	-0.01853	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.13532	10
AEPW	COMANCHE 138KV	13	-0.01853	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.13532	10
AEPW	COMANCHE 69KV	12	-0.01992	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.13671	10
AEPW	COMANCHE 69KV	12	-0.01992	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.13671	10
OKGE	HORSESHOE LAKE 138KV	875	-0.02287	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.13966	10
OKGE	HORSESHOE LAKE 138KV	875	-0.02287	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.13966	10
OKGE	HORSESHOE LAKE 69KV	16	-0.02249	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.13928	10
OKGE	HORSESHOE LAKE 69KV	16	-0.02249	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.13928	10
OKGE	MCCLAIR 138KV	520	-0.02377	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.14056	10
OKGE	MCCLAIR 138KV	520	-0.02377	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.14056	10
OKGE	MCCLAIR4 138.00 138KV	8	-0.02377	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.14056	10
OKGE	MCCLAIR4 138.00 138KV	8	-0.02377	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.14056	10
OKGE	MUSTANG 138KV	370.5	-0.02472	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.14151	10
OKGE	MUSTANG 138KV	370.5	-0.02472	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.14151	10
OKGE	MUSTANG 69KV	106	-0.02613	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.14292	10
OKGE	MUSTANG 69KV	106	-0.02613	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.14292	10
OMPA	OMPA-PAWHUSKA NORTHEAST 138KV	6.7	-0.01512	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.13191	10
OMPA	OMPA-PAWHUSKA NORTHEAST 138KV	6.7	-0.01512	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.13191	10
OMPA	OMPA-PONCA CITY 69KV	121.5351	-0.02695	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.14374	10
OMPA	OMPA-PONCA CITY 69KV	121.5351	-0.02695	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.14374	10
OKGE	REDBUD 345KV	411.5	-0.02185	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.13864	10
OKGE	REDBUD 345KV	411.5	-0.02185	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.13864	10
OKGE	SEMINOLE 138KV	425	-0.01946	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.13625	10
OKGE	SEMINOLE 138KV	425	-0.01946	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.13625	10
OKGE	SEMINOLE 345KV	874.0786	-0.01959	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.13638	10
OKGE	SEMINOLE 345KV	874.0786	-0.01959	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.13638	10
OKGE	SMITH COGEN 138KV	123	-0.02447	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.14126	10
OKGE	SMITH COGEN 138KV	123	-0.02447	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.14126	10
OKGE	SOONER 138KV	5	-0.02319	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.13998	10
OKGE	SOONER 138KV	5	-0.02319	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.13998	10
AEPW	SOUTHWESTERN STATION 138KV	636	-0.02537	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.14216	10
AEPW	SOUTHWESTERN STATION 138KV	636	-0.02537	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.14216	10
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.022	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.13879	10
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.022	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.13879	10
OKGE	TINKER 5G 138KV	62	-0.02233	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.13912	10
OKGE	TINKER 5G 138KV	62	-0.02233	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.13912	10
AEPW	WELEETKA 138KV	198	-0.01546	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.13225	10
AEPW	WELEETKA 138KV	198	-0.01546	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.13225	10
AEPW	ARSENAL HILL 138KV	25	-0.00796	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12474	11
AEPW	ARSENAL HILL 138KV	25	-0.00796	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12474	11
AEPW	ARSENAL HILL 69KV	110	-0.00796	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12475	11
AEPW	ARSENAL HILL 69KV	110	-0.00796	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12475	11
WERE	CITY OF WINFIELD 69KV	36.8	-0.00348	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12027	11
WERE	CITY OF WINFIELD 69KV	36.8	-0.00348	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12027	11
GRDA	COFFGEN6 1 12.470 69KV	53	-0.00597	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12276	11
GRDA	COFFGEN6 1 12.470 69KV	53	-0.00597	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12276	11
AEPW	COGENTRIX 345KV	381.0175	-0.01317	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12986	11
AEPW	COGENTRIX 345KV	381.0175	-0.01317	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12986	11
AEPW	EASTMAN 138KV	195.8924	-0.00866	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12545	11
AEPW	EASTMAN 138KV	195.8924	-0.00866	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12545	11
AEPW	ELKINS GENERATOR 69KV	60	-0.00818	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12497	11
AEPW	ELKINS GENERATOR 69KV	60	-0.00818	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12497	11
AEPW	FITZHUGH 161KV	165	-0.00761	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.1244	11
AEPW	FITZHUGH 161KV	165	-0.00761	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.1244	11
AEPW	FULTON 115KV	153	-0.0093	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12609	11
AEPW	FULTON 115KV	153	-0.0093	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12609	11
WERE	G11_057_3 0.6900 34KV	151.4	-0.00846	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12525	11
WERE	G11_057_3 0.6900 34KV	151.4	-0.00846	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12525	11
OMPA	G12-041 18.000 345KV	121.5	-0.00942	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12621	11
OMPA	G12-041 18.000 345KV	121.5	-0.00942	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12621	11
GRDA	G13-028ST 17.500 345KV	295.8975	-0.00845	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12524	11
GRDA	G13-028ST 17.500 345KV	295.8975	-0.00845	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12524	11
GRDA	GRDA1 161KV	490	-0.00891	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.1257	11
GRDA	GRDA1 161KV	490	-0.00891	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.1257	11
GRDA	GRDA1 345KV	220	-0.00842	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12521	11
GRDA	GRDA1 345KV	220	-0.00842	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12521	11
AEPW	KNOXLEE 138KV	475	-0.0086	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12539	11
AEPW	KNOXLEE 138KV	475	-0.0086	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12539	11
AEPW	LEBROCK 345KV	156.6225	-0.00864	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12543	11
AEPW	LEBROCK 345KV	156.6225	-0.00864	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12543	11
AEPW	LIEBERMAN 138KV	242	-0.00808	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12487	11
AEPW	LIEBERMAN 138KV	242	-0.00808	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12487	11
AEPW	LONESTAR POWER PLANT 69KV	50	-0.00911	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.1259	11
AEPW	LONESTAR POWER PLANT 69KV	50	-0.00911	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.1259	11
OKGE	MUSKOGEE 345KV	244	-0.01276	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12955	11
OKGE	MUSKOGEE 345KV	244	-0.01276	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12955	11
AEPW	NORTH MARSHALL 69KV	5	-0.00855	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12534	11
AEPW	NORTH MARSHALL 69KV	5	-0.00855	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12534	11
AEPW	NORTHEASTERN STATION 138KV	133	-0.01064	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12743	11
AEPW	NORTHEASTERN STATION 138KV	133	-0.01064	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12743	11
AEPW	NORTHEASTERN STATION 345KV	481	-0.01283	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12962	11
AEPW	NORTHEASTERN STATION 345KV	481	-0.01283	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12962	11
AEPW	RIVERSIDE STATION 138KV	948.3297	-0.01313	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12992	11
AEPW	RIVERSIDE STATION 138KV	948.3297	-0.01313	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12992	11
GRDA	SALINA 161KV	129	-0.00875	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12554	11
GRDA	SALINA 161KV	129	-0.00875	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12554	11
AEPW	TONTITOWN 161KV	313	-0.00815	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12494	11
AEPW	TONTITOWN 161KV	313	-0.00815	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12494	11
AEPW	TULSA POWER STATION 138KV	307	-0.01296	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12975	11
AEPW	TULSA								

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

SWPA	JBOGENE1 13.800 69KV	270.8	-0.00122	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.11801	12
SWPA	JBOGENE1 13.800 69KV	270.8	-0.00122	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.11801	12
SWPA	KENNETT 69KV	22.267	-0.00033	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.11712	12
SWPA	KENNETT 69KV	22.267	-0.00033	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.11712	12
SWPA	MALDEN 69KV	10.282	-0.00002	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.11681	12
SWPA	MALDEN 69KV	10.282	-0.00002	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.11681	12
WERE	OXFORD 138KV	4.5	0.00047	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.11632	12
WERE	OXFORD 138KV	4.5	0.00047	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.11632	12
SWPA	PARAGOULD 161KV	22.42	-0.00082	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.11761	12
SWPA	PARAGOULD 161KV	22.42	-0.00082	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.11761	12
SWPA	PIGGOTT 69KV	7.5	-0.00022	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.11701	12
SWPA	PIGGOTT 69KV	7.5	-0.00022	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.11701	12
SWPA	POPLAR BLUFF 161KV	7.129999	0.00033	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.11646	12
SWPA	POPLAR BLUFF 161KV	7.129999	0.00033	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.11646	12
WERE	CCSSHAR1 12.470 69KV	10	0.00747	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.10932	13
WERE	CCSSHAR1 12.470 69KV	10	0.00747	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.10932	13
WERE	CCSSHAR1 12.470 69KV	10	0.00747	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.10932	13
WERE	CCSSHAR1 12.470 69KV	10	0.00747	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.10932	13
WERE	CITY OF AUGUSTA 69KV	18.09	0.00889	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.1079	13
WERE	CITY OF AUGUSTA 69KV	18.09	0.00889	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.1079	13
WERE	CITY OF BURLINGTON 69KV	12.5	0.00684	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.10995	13
WERE	CITY OF BURLINGTON 69KV	12.5	0.00684	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.10995	13
WERE	CITY OF MULVANE 69KV	11.54279	0.01024	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.10655	13
WERE	CITY OF MULVANE 69KV	11.54279	0.01024	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.10655	13
WERE	COFFEY CO SUB 34KV	200	0.00921	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.10758	13
WERE	COFFEY CO SUB 34KV	200	0.00921	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.10758	13
WERE	GILL ENERGY CENTER 138KV	194	0.01133	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.10546	13
WERE	GILL ENERGY CENTER 138KV	194	0.01133	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.10546	13
WERE	LAWRENCE ENERGY CENTER 115KV	165	0.01302	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.10377	13
WERE	LAWRENCE ENERGY CENTER 115KV	165	0.01302	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.10377	13
WERE	LAWRENCE ENERGY CENTER 230KV	240	0.01328	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.10351	13
WERE	LAWRENCE ENERGY CENTER 230KV	240	0.01328	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.10351	13
WERE	MUSCOTA2 69.000 69KV	5.55	0.01303	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.10376	13
WERE	MUSCOTA2 69.000 69KV	5.55	0.01303	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.10376	13
WERE	TECUMSEH ENERGY CENTER 115KV	204	0.01408	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.10271	13
WERE	TECUMSEH ENERGY CENTER 115KV	204	0.01408	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.10271	13
WERE	BROWN COUNTY 115KV	5.5	0.01512	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.10167	14
WERE	BROWN COUNTY 115KV	5.5	0.01512	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.10167	14
WERE	CITY OF OSAGE CITY 115KV	10.07451	0.01511	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.10168	14
WERE	CITY OF OSAGE CITY 115KV	10.07451	0.01511	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.10168	14
WERE	CLAYGEN1 13.200 115KV	29.67	0.01821	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.09858	14
WERE	CLAYGEN1 13.200 115KV	29.67	0.01821	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.09858	14
WERE	EMPORIA ENERGY CENTER 345KV	740	0.01558	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.10121	14
WERE	EMPORIA ENERGY CENTER 345KV	740	0.01558	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.10121	14
WERE	EVANS ENERGY CENTER 138KV	872	0.01645	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.10034	14
WERE	EVANS ENERGY CENTER 138KV	872	0.01645	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.10034	14
WERE	HOLTON 115KV	6.01	0.01462	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.10217	14
WERE	HOLTON 115KV	6.01	0.01462	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.10217	14
WERE	JEFFREY ENERGY CENTER 230KV	65	0.01568	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.10111	14
WERE	JEFFREY ENERGY CENTER 230KV	65	0.01568	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.10111	14
WERE	JEFFREY ENERGY CENTER 345KV	379.811	0.01559	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.1012	14
WERE	JEFFREY ENERGY CENTER 345KV	379.811	0.01559	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.1012	14
WERE	MARSHGEN1 0.6900 34KV	73.8	0.0167	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.10009	14
WERE	MARSHGEN1 0.6900 34KV	73.8	0.0167	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.10009	14
WERE	SALINA MAIN 115KV	10.18	0.02128	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.09551	14
WERE	SALINA MAIN 115KV	10.18	0.02128	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.09551	14
WERE	SOUTH SENECA 115KV	12.7	0.0157	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.10109	14
WERE	SOUTH SENECA 115KV	12.7	0.0157	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.10109	14
WERE	BPU - CITY OF MCPHERSON 115KV	245	0.02348	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.09331	15
WERE	BPU - CITY OF MCPHERSON 115KV	245	0.02348	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.09331	15
AEPW	G14-074 345.00 345KV	200	0.02609	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.0907	15
AEPW	G14-074 345.00 345KV	200	0.02609	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.0907	15
WERE	HUTCHINSON ENERGY CENTER 115KV	357	0.02354	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.09325	15
WERE	HUTCHINSON ENERGY CENTER 115KV	357	0.02354	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.09325	15
WERE	HUTCHINSON ENERGY CENTER 69KV	56	0.02359	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.0932	15
WERE	HUTCHINSON ENERGY CENTER 69KV	56	0.02359	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.0932	15
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.08225	17
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	WERE	JEFFREY ENERGY CENTER 345KV	1210.189	0.01559	-0.08216	17
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	WERE	LAWRENCE ENERGY CENTER 230KV	140	0.01328	-0.07985	17
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	WERE	S ALMA 3 115.00 115KV	10.5	0.01596	-0.08253	17
WFEC	MORLND 138KV	248.9145	-0.37237	WFEC	SLEEPING BEAR 138KV	80	-0.29418	-0.07819	18
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	WERE	CITY OF AUGUSTA 69KV	9.25	0.00889	-0.07546	18
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.07578	18
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	WERE	WAVERGEN1 0.6900 34KV	101	0.00921	-0.07578	18
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	WERE	CANEYWF1 0.6900 34KV	199.8	0.00523	-0.0718	19
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	WERE	ELK RIVER 345KV	150	0.00583	-0.0724	19
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	WERE	FR2E1WF1 0.6900 34KV	100.8109	0.0017	-0.06827	20
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	WERE	FR2E2WF1 0.6900 34KV	100.8109	0.0017	-0.06827	20
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	WERE	FR2W1WF1 0.6900 34KV	129.8491	0.0017	-0.06827	20
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	WERE	FR2W2WF1 0.6900 34KV	128.5292	0.0017	-0.06827	20
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	SWPA	KENNETT 69KV	12.033	-0.00033	-0.06624	21
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	SWPA	PARAGOULD 161KV	8.58	-0.00082	-0.06675	21
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	SWPA	POPLAR BLUFF 161KV	26.67	0.00033	-0.0669	21
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	SWPA	SIKESTON 161KV	235	0.00058	-0.06715	21
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	SWPA	CARTHAGE 161KV	20	-0.00295	-0.06362	22
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	AEPW	FLINT CREEK 161KV	528	-0.00753	-0.05904	23
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	OKGE	KAYWWD12 0.7000 34KV	280	-0.0058	-0.06077	23

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

OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	OKGE	AES 161KV	320	-0.00848	-0.05809	24
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	AEPW	ARSENAL HILL 138KV	509	-0.00795	-0.05862	24
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	AEPW	EASTMAN 138KV	289.1176	-0.00866	-0.05791	24
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	WERE	G11_057_3 0.6900 34KV	200	-0.00846	-0.05811	24
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	GRDA	G13-0282T 17.500 345KV	263.6025	-0.00845	-0.05812	24
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	GRDA	GRDA1 345KV	300	-0.00842	-0.05815	24
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	AEPW	LEBROCK 345KV	379.3775	-0.00864	-0.05793	24
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	AEPW	PIRKEY GENERATION 138KV	675	-0.00864	-0.05793	24
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	AEPW	WELSH 345KV	1056	-0.00959	-0.05698	24
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	AEPW	WILKES 138KV	70	-0.009	-0.05757	24
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	AEPW	NORTHEASTERN STATION 138KV	785	-0.01064	-0.05593	25
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	AEPW	OEC 345KV	1230	-0.01198	-0.05459	25
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	AEPW	TURK 138KV	650	-0.01042	-0.05615	25
WFEC	ANADARKO 69KV	70	-0.02726	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.04294	32
WFEC	ANADARKO 69KV	70	-0.02726	WERE	JEFFREY ENERGY CENTER 345KV	1210.189	0.01559	-0.04285	32
OMPA	OMPA-PONCA CITY 69KV	121.5351	-0.02695	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.04263	32
OMPA	OMPA-PONCA CITY 69KV	121.5351	-0.02695	WERE	JEFFREY ENERGY CENTER 345KV	1210.189	0.01559	-0.04254	32
OKGE	MUSTANG 69KV	106	-0.02613	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.04181	33
OKGE	MUSTANG 69KV	106	-0.02613	WERE	JEFFREY ENERGY CENTER 345KV	1210.189	0.01559	-0.04172	33
WFEC	ANADARKO 138KV	284	-0.02551	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.04119	34
WFEC	ANADARKO 138KV	284	-0.02551	WERE	JEFFREY ENERGY CENTER 345KV	1210.189	0.01559	-0.0411	34
WFEC	ANADARKO 69KV	70	-0.02726	WERE	LAWRENCE ENERGY CENTER 230KV	140	0.01328	-0.04054	34
OKGE	MUSTANG 138KV	370.5	-0.02472	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.0404	34
OKGE	MUSTANG 138KV	370.5	-0.02472	WERE	JEFFREY ENERGY CENTER 345KV	1210.189	0.01559	-0.04031	34
OMPA	OMPA-PONCA CITY 69KV	121.5351	-0.02695	WERE	LAWRENCE ENERGY CENTER 230KV	140	0.01328	-0.04023	34
OKGE	SMITH COGEN 138KV	123	-0.02447	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.04015	34
OKGE	SMITH COGEN 138KV	123	-0.02447	WERE	JEFFREY ENERGY CENTER 345KV	1210.189	0.01559	-0.04006	34
AEPW	SOUTHWESTERN STATION 138KV	636	-0.02537	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.04105	34
AEPW	SOUTHWESTERN STATION 138KV	636	-0.02537	WERE	JEFFREY ENERGY CENTER 345KV	1210.189	0.01559	-0.04096	34
GRDA	BOOMER 69KV	24	-0.02371	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.03939	35
GRDA	BOOMER 69KV	24	-0.02371	WERE	JEFFREY ENERGY CENTER 345KV	1210.189	0.01559	-0.0393	35
OKGE	MCCLAIN 138KV	520	-0.02377	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.03945	35
OKGE	MCCLAIN 138KV	520	-0.02377	WERE	JEFFREY ENERGY CENTER 345KV	1210.189	0.01559	-0.03936	35
OKGE	MUSTANG 69KV	106	-0.02613	WERE	LAWRENCE ENERGY CENTER 230KV	140	0.01328	-0.03941	35
WFEC	ANADARKO 138KV	284	-0.02551	WERE	LAWRENCE ENERGY CENTER 230KV	140	0.01328	-0.03879	36
OKGE	HORSESHOE LAKE 138KV	875	-0.02287	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.03855	36
OKGE	HORSESHOE LAKE 138KV	875	-0.02287	WERE	JEFFREY ENERGY CENTER 345KV	1210.189	0.01559	-0.03846	36
OKGE	HORSESHOE LAKE 69KV	16	-0.02249	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.03817	36
OKGE	HORSESHOE LAKE 69KV	16	-0.02249	WERE	JEFFREY ENERGY CENTER 345KV	1210.189	0.01559	-0.03808	36
OKGE	MUSTANG 138KV	370.5	-0.02472	WERE	LAWRENCE ENERGY CENTER 230KV	140	0.01328	-0.038	36
AEPW	SOUTHWESTERN STATION 138KV	636	-0.02537	WERE	LAWRENCE ENERGY CENTER 230KV	140	0.01328	-0.03865	36
OKGE	TINKER 5G 138KV	62	-0.02233	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.03801	36
OKGE	TINKER 5G 138KV	62	-0.02233	WERE	JEFFREY ENERGY CENTER 345KV	1210.189	0.01559	-0.03792	36
GRDA	BOOMER 69KV	24	-0.02371	WERE	LAWRENCE ENERGY CENTER 230KV	140	0.01328	-0.03699	37
OKGE	MCCLAIN 138KV	520	-0.02377	WERE	LAWRENCE ENERGY CENTER 230KV	140	0.01328	-0.03705	37
OKGE	REDBUD 345KV	411.5	-0.02185	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.03753	37
OKGE	REDBUD 345KV	411.5	-0.02185	WERE	JEFFREY ENERGY CENTER 345KV	1210.189	0.01559	-0.03744	37
OKGE	SMITH COGEN 138KV	123	-0.02447	WERE	LAWRENCE ENERGY CENTER 230KV	140	0.01328	-0.03775	37
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.022	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.03768	37
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.022	WERE	JEFFREY ENERGY CENTER 345KV	1210.189	0.01559	-0.03759	37
WFEC	ANADARKO 69KV	70	-0.02726	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.03647	38
WFEC	ANADARKO 69KV	70	-0.02726	WERE	WAVERGEN1 0.6900 34KV	101	0.00921	-0.03647	38
OKGE	HORSESHOE LAKE 138KV	875	-0.02287	WERE	LAWRENCE ENERGY CENTER 230KV	140	0.01328	-0.03615	38
OMPA	OMPA-PONCA CITY 69KV	121.5351	-0.02695	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.03616	38
OMPA	OMPA-PONCA CITY 69KV	121.5351	-0.02695	WERE	WAVERGEN1 0.6900 34KV	101	0.00921	-0.03616	38
OKGE	HORSESHOE LAKE 69KV	16	-0.02249	WERE	LAWRENCE ENERGY CENTER 230KV	140	0.01328	-0.03577	39
OKGE	MUSTANG 69KV	106	-0.02613	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.03534	39
OKGE	MUSTANG 69KV	106	-0.02613	WERE	WAVERGEN1 0.6900 34KV	101	0.00921	-0.03534	39
OKGE	REDBUD 345KV	411.5	-0.02185	WERE	LAWRENCE ENERGY CENTER 230KV	140	0.01328	-0.03513	39
OKGE	SEMINOLE 138KV	425	-0.01946	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.03514	39
OKGE	SEMINOLE 138KV	425	-0.01946	WERE	JEFFREY ENERGY CENTER 345KV	1210.189	0.01559	-0.03505	39
OKGE	SEMINOLE 345KV	874.0786	-0.01959	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.03527	39
OKGE	SEMINOLE 345KV	874.0786	-0.01959	WERE	JEFFREY ENERGY CENTER 345KV	1210.189	0.01559	-0.03518	39
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.022	WERE	LAWRENCE ENERGY CENTER 230KV	140	0.01328	-0.03528	39

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

Source	Relief Amount	Aggregate Relief Amount	Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
OKGE	TINKER 5G 138KV	62	-0.02233	WERE	LAWRENCE ENERGY CENTER 230KV	140	0.01328	-0.03561				39
WFEC	ANADARKO 138KV	284	-0.02551	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.03472				40
WFEC	ANADARKO 138KV	284	-0.02551	WERE	WAVERGEN1 0.6900 34KV	101	0.00921	-0.03472				40
AEPW	SOUTHWESTERN STATION 138KV	636	-0.02537	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.03458				40
AEPW	SOUTHWESTERN STATION 138KV	636	-0.02537	WERE	WAVERGEN1 0.6900 34KV	101	0.00921	-0.03458				40
OKGE	MUSTANG 138KV	370.5	-0.02472	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.03393				41
OKGE	MUSTANG 138KV	370.5	-0.02472	WERE	WAVERGEN1 0.6900 34KV	101	0.00921	-0.03393				41
OKGE	SMITH COGEN 138KV	123	-0.02447	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.03368				41
OKGE	SMITH COGEN 138KV	123	-0.02447	WERE	WAVERGEN1 0.6900 34KV	101	0.00921	-0.03368				41
WFEC	ANADARKO 69KV	70	-0.02726	WERE	ELK RIVER 345KV	150	0.00583	-0.03309				42
GRDA	BOOMER 69KV	24	-0.02371	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.03292				42
GRDA	BOOMER 69KV	24	-0.02371	WERE	WAVERGEN1 0.6900 34KV	101	0.00921	-0.03292				42
OKGE	MCCLAIN 138KV	520	-0.02377	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.03298				42
OKGE	MCCLAIN 138KV	520	-0.02377	WERE	WAVERGEN1 0.6900 34KV	101	0.00921	-0.03298				42
OMPA	OMPA-PONCA CITY 69KV	121.5351	-0.02695	WERE	ELK RIVER 345KV	150	0.00583	-0.03278				42
OKGE	SEMINOLE 138KV	425	-0.01946	WERE	LAWRENCE ENERGY CENTER 230KV	140	0.01328	-0.03274				42
OKGE	SEMINOLE 345KV	874.0796	-0.01959	WERE	LAWRENCE ENERGY CENTER 230KV	140	0.01328	-0.03287				42
WFEC	ANADARKO 69KV	70	-0.02726	WERE	CANEYWF1 0.6900 34KV	199.8	0.00523	-0.03249				43
OKGE	HORSESHOE LAKE 138KV	875	-0.02287	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.03208				43
OKGE	HORSESHOE LAKE 138KV	875	-0.02287	WERE	WAVERGEN1 0.6900 34KV	101	0.00921	-0.03208				43
OKGE	MUSTANG 69KV	106	-0.02613	WERE	ELK RIVER 345KV	150	0.00583	-0.03196				43
OMPA	OMPA-PONCA CITY 69KV	121.5351	-0.02695	WERE	CANEYWF1 0.6900 34KV	199.8	0.00523	-0.03218				43
WFEC	ANADARKO 138KV	284	-0.02551	WERE	ELK RIVER 345KV	150	0.00583	-0.03134				44
OKGE	HORSESHOE LAKE 69KV	16	-0.02249	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.0317				44
OKGE	HORSESHOE LAKE 69KV	16	-0.02249	WERE	WAVERGEN1 0.6900 34KV	101	0.00921	-0.0317				44
OKGE	MUSTANG 69KV	106	-0.02613	WERE	CANEYWF1 0.6900 34KV	199.8	0.00523	-0.03136				44
OKGE	REDBUD 345KV	411.5	-0.02185	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.03106				44
OKGE	REDBUD 345KV	411.5	-0.02185	WERE	WAVERGEN1 0.6900 34KV	101	0.00921	-0.03106				44
AEPW	SOUTHWESTERN STATION 138KV	636	-0.02537	WERE	ELK RIVER 345KV	150	0.00583	-0.0312				44
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.022	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.03121				44
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.022	WERE	WAVERGEN1 0.6900 34KV	101	0.00921	-0.03121				44
OKGE	TINKER 5G 138KV	62	-0.02233	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.03154				44
OKGE	TINKER 5G 138KV	62	-0.02233	WERE	WAVERGEN1 0.6900 34KV	101	0.00921	-0.03154				44
AEPW	WELEETKA 138KV	198	-0.01546	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.03114				44
AEPW	WELEETKA 138KV	198	-0.01546	WERE	JEFFREY ENERGY CENTER 345KV	1210.189	0.01559	-0.03105				44
WFEC	ANADARKO 138KV	284	-0.02551	WERE	CANEYWF1 0.6900 34KV	199.8	0.00523	-0.03074				45
OKGE	MUSTANG 138KV	370.5	-0.02472	WERE	ELK RIVER 345KV	150	0.00583	-0.03055				45
AEPW	SOUTHWESTERN STATION 138KV	636	-0.02537	WERE	CANEYWF1 0.6900 34KV	199.8	0.00523	-0.0306				45
OKGE	SMITH COGEN 138KV	123	-0.02447	WERE	ELK RIVER 345KV	150	0.00583	-0.0303				46

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

Factor = Source GSF - Sink GSF

Redispatch Amount = Relief Amount / Factor

Upgrade: Multi - Woodward District EHV - Tatonga - Mathewson - Cimarron
 Limiting Facility: FPL SWITCH - WOODWARD 138KV CKT 1
 Direction: TO->FROM
 Line Outage: NORTHWEST - TATONGA7 345.00 345KV CKT 1
 Flowgate: 2015AG1AFS41T1395520SP
 Date Redispatch Needed: Starting 2020 6/1 - 10/1 Unit EOC of Upgrade

Season Flowgate Identified: 2020 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount							
81651752	2.2	2.2							
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
WFEC	MORLND 138KV	119.8967	-0.37237	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.58991	4
WFEC	MORLND 138KV	119.8967	-0.37237	OKGE	OJ SPIRIT 138KV	102	0.17438	-0.54675	4
WFEC	MORLND 138KV	119.8967	-0.37237	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.54675	4
WFEC	MORLND 138KV	119.8967	-0.37237	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.48916	5
WFEC	MORLND 138KV	119.8967	-0.37237	OKGE	CRSRD21 34.500 345KV	216	0.11679	-0.48916	5
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.46463	5
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	OJ SPIRIT 138KV	102	0.17438	-0.42147	5
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.42147	5
WFEC	MORLND 138KV	119.8967	-0.37237	WERE	6TH STREET 115KV	2.18	0.01299	-0.36836	6
WFEC	MORLND 138KV	119.8967	-0.37237	WERE	AEC W1 34.500 115KV	3.85	0.01946	-0.39183	6
WFEC	MORLND 138KV	119.8967	-0.37237	OKGE	AES 161KV	320	-0.00848	-0.36389	6
WFEC	MORLND 138KV	119.8967	-0.37237	WFEC	ANADARKO 138KV	363	-0.02551	-0.34686	6
WFEC	MORLND 138KV	119.8967	-0.37237	AEPW	ARSENAL HILL 138KV	509	-0.00795	-0.36442	6
WFEC	MORLND 138KV	119.8967	-0.37237	AEPW	BUFFCK1 34.500 230KV	99	-0.02156	-0.35081	6
WFEC	MORLND 138KV	119.8967	-0.37237	OKGE	CANDN12 34.500 345KV	298.2	-0.02317	-0.3492	6
WFEC	MORLND 138KV	119.8967	-0.37237	WERE	CANEYWF1 0.6900 34KV	199.8	0.00523	-0.3776	6
WFEC	MORLND 138KV	119.8967	-0.37237	SWPA	CARTHAGE 161KV	20	-0.00285	-0.36942	6
WFEC	MORLND 138KV	119.8967	-0.37237	OKGE	CHSHMW1 34.500 345KV	202	-0.02036	-0.35201	6
WFEC	MORLND 138KV	119.8967	-0.37237	WERE	CITY OF AUGUSTA 69KV	16.45	-0.00889	-0.38126	6
WFEC	MORLND 138KV	119.8967	-0.37237	WERE	CITY OF BURLINGTON 69KV	9.3	0.00684	-0.37921	6
WFEC	MORLND 138KV	119.8967	-0.37237	WERE	CITY OF MULVANE 69KV	12.12568	0.01024	-0.38261	6
WFEC	MORLND 138KV	119.8967	-0.37237	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01511	-0.38748	6
WFEC	MORLND 138KV	119.8967	-0.37237	WERE	CLAYGEN1 13.200 115KV	6.935849	0.01821	-0.39058	6
WFEC	MORLND 138KV	119.8967	-0.37237	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.38158	6
WFEC	MORLND 138KV	119.8967	-0.37237	AEPW	COGENTR1 345KV	512.858	-0.01317	-0.3592	6
WFEC	MORLND 138KV	119.8967	-0.37237	AEPW	COMANCHE 138KV	170	-0.01853	-0.35394	6
WFEC	MORLND 138KV	119.8967	-0.37237	AEPW	COMANCHE 69KV	71	-0.01992	-0.35245	6
WFEC	MORLND 138KV	119.8967	-0.37237	WFEC	COMMANCHE CO SUB 34KV	100	-0.02584	-0.34653	6
WFEC	MORLND 138KV	119.8967	-0.37237	AEPW	EASTMAN 138KV	310.6949	-0.00866	-0.36371	6
WFEC	MORLND 138KV	119.8967	-0.37237	WERE	ELK RIVER 345KV	150	0.00583	-0.3782	6
WFEC	MORLND 138KV	119.8967	-0.37237	WERE	EMPORIA ENERGY CENTER 345KV	324.4365	0.01558	-0.38795	6
WFEC	MORLND 138KV	119.8967	-0.37237	WERE	EVANS ENERGY CENTER 138KV	666	0.01645	-0.38882	6
WFEC	MORLND 138KV	119.8967	-0.37237	AEPW	FITZLUIGH 161KV	128	-0.00761	-0.36476	6
WFEC	MORLND 138KV	119.8967	-0.37237	AEPW	FLINT CREEK 161KV	528	-0.00753	-0.36484	6
WFEC	MORLND 138KV	119.8967	-0.37237	WERE	FR2E1WF1 0.6900 34KV	100.2401	0.0017	-0.37407	6
WFEC	MORLND 138KV	119.8967	-0.37237	WERE	FR2E2WF1 0.6900 34KV	100.2401	0.0017	-0.37407	6
WFEC	MORLND 138KV	119.8967	-0.37237	WERE	FR2W1WF1 0.6900 34KV	130.4464	0.0017	-0.37407	6
WFEC	MORLND 138KV	119.8967	-0.37237	WERE	FR2W2WF1 0.6900 34KV	129.0734	0.0017	-0.37407	6
WFEC	MORLND 138KV	119.8967	-0.37237	AEPW	G10-055 4.1600 138KV	3	-0.01328	-0.35911	6
WFEC	MORLND 138KV	119.8967	-0.37237	WERE	G11 057 3.0 6900 34KV	201	-0.00945	-0.35391	6
WFEC	MORLND 138KV	119.8967	-0.37237	GRDA	G13-028ST 17.600 345KV	495.0017	-0.00845	-0.36332	6
WFEC	MORLND 138KV	119.8967	-0.37237	WERE	GILL ENERGY CENTER 138KV	180	0.01133	-0.3837	6
WFEC	MORLND 138KV	119.8967	-0.37237	OKGE	GRADY CO SUB 345KV	199	-0.02254	-0.34983	6
WFEC	MORLND 138KV	119.8967	-0.37237	GRDA	GRDA1 345KV	450.8848	-0.00842	-0.36395	6
WFEC	MORLND 138KV	119.8967	-0.37237	OKGE	HORSESHOE LAKE 138KV	316.4517	-0.02287	-0.3495	6
WFEC	MORLND 138KV	119.8967	-0.37237	OKGE	HORSESHOE LAKE 69KV	16	-0.02249	-0.34988	6
WFEC	MORLND 138KV	119.8967	-0.37237	WFEC	HUGO 138KV	440	-0.01348	-0.35889	6
WFEC	MORLND 138KV	119.8967	-0.37237	SWPA	JBOGENE1 13.800 69KV	82.72202	-0.00122	-0.37115	6
WFEC	MORLND 138KV	119.8967	-0.37237	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.38805	6
WFEC	MORLND 138KV	119.8967	-0.37237	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01559	-0.38796	6
WFEC	MORLND 138KV								

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

WFEC	MORLND 138KV	119.8967	-0.37237	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01302	-0.38539	6
WFEC	MORLND 138KV	119.8967	-0.37237	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01328	-0.38565	6
WFEC	MORLND 138KV	119.8967	-0.37237	AEPW	LEBROCK 345KV	227.7492	-0.00064	-0.38373	6
WFEC	MORLND 138KV	119.8967	-0.37237	SWPA	MALDEN 69KV	5.978	-0.00002	-0.37235	6
WFEC	MORLND 138KV	119.8967	-0.37237	OKGE	MCLAIN 138KV	465.6	-0.02377	-0.3486	6
WFEC	MORLND 138KV	119.8967	-0.37237	OKGE	MCLAINA 138.00 138KV	28	-0.02377	-0.3486	6
WFEC	MORLND 138KV	119.8967	-0.37237	WFEC	MEERS CO SUB 138KV	74.25	-0.02584	-0.34653	6
WFEC	MORLND 138KV	119.8967	-0.37237	OKGE	MNCWND31 34.500 345KV	100	-0.02254	-0.34983	6
WFEC	MORLND 138KV	119.8967	-0.37237	WERE	MUSCOTEA 69.000 69KV	2.5	0.01303	-0.3854	6
WFEC	MORLND 138KV	119.8967	-0.37237	OKGE	MUSKOGEE 345KV	1542.5	-0.01276	-0.35961	6
WFEC	MORLND 138KV	119.8967	-0.37237	OKGE	MUSTANG 138KV	221	-0.02472	-0.34765	6
WFEC	MORLND 138KV	119.8967	-0.37237	AEPW	NORTHEASTERN STATION 138KV	851	-0.01064	-0.36173	6
WFEC	MORLND 138KV	119.8967	-0.37237	AEPW	NORTHEASTERN STATION 345KV	460	-0.01283	-0.35954	6
WFEC	MORLND 138KV	119.8967	-0.37237	AEPW	OEC 345KV	1230	-0.01198	-0.36039	6
WFEC	MORLND 138KV	119.8967	-0.37237	OKGE	ORIGIN21 0.6900 34KV	149	-0.01704	-0.35533	6
WFEC	MORLND 138KV	119.8967	-0.37237	AEPW	PIRKEY GENERATION 138KV	675	-0.00864	-0.36373	6
WFEC	MORLND 138KV	119.8967	-0.37237	SWPA	POPLAR BLUFF 161KV	29.76	0.00033	-0.3727	6
WFEC	MORLND 138KV	119.8967	-0.37237	OKGE	REDRUD 345KV	1214	-0.02185	-0.35052	6
WFEC	MORLND 138KV	119.8967	-0.37237	AEPW	RIVERSIDE STATION 138KV	908.0001	-0.01313	-0.35924	6
WFEC	MORLND 138KV	119.8967	-0.37237	AEPW	ROARK1 0.7000 34KV	99	-0.02156	-0.35081	6
WFEC	MORLND 138KV	119.8967	-0.37237	WERE	S ALMA 3 115.00 115KV	11.6	0.01596	-0.38833	6
WFEC	MORLND 138KV	119.8967	-0.37237	WERE	SCRANTON 115KV	4.08	0.01486	-0.38723	6
WFEC	MORLND 138KV	119.8967	-0.37237	OKGE	SEMINOLE 138KV	233	-0.01946	-0.35291	6
WFEC	MORLND 138KV	119.8967	-0.37237	OKGE	SEMINOLE 345KV	470	-0.01959	-0.35278	6
WFEC	MORLND 138KV	119.8967	-0.37237	SWPA	SIKESTON 161KV	235	0.00058	-0.37295	6
WFEC	MORLND 138KV	119.8967	-0.37237	OKGE	SMITH COGEN 138KV	107	-0.02447	-0.3479	6
WFEC	MORLND 138KV	119.8967	-0.37237	OKGE	SOONER 138KV	535	-0.02319	-0.34918	6
WFEC	MORLND 138KV	119.8967	-0.37237	OKGE	SOONER 345KV	537	-0.01726	-0.35511	6
WFEC	MORLND 138KV	119.8967	-0.37237	WERE	SOUTH SENECA 115KV	8.3	0.0157	-0.38807	6
WFEC	MORLND 138KV	119.8967	-0.37237	AEPW	SOUTHWESTERN STATION 138KV	311	-0.02537	-0.347	6
WFEC	MORLND 138KV	119.8967	-0.37237	OKGE	SPRING CREEK UNIT 3 AND 4 345KV	300	-0.022	-0.35037	6
WFEC	MORLND 138KV	119.8967	-0.37237	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01408	-0.38645	6
WFEC	MORLND 138KV	119.8967	-0.37237	AEPW	TURK 138KV	650	-0.01042	-0.36195	6
WFEC	MORLND 138KV	119.8967	-0.37237	WERE	WAVERGEN1 0.6900 34KV	101	0.00921	-0.38158	6
WFEC	MORLND 138KV	119.8967	-0.37237	AEPW	WELSH 345KV	1056	-0.00959	-0.36278	6
WFEC	MORLND 138KV	119.8967	-0.37237	AEPW	WILKES 138KV	330	-0.009	-0.36337	6
WFEC	MORLND 138KV	119.8967	-0.37237	AEPW	WILKES 345KV	348	-0.00884	-0.36353	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.36388	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	CRSDR1/21 34.500 345KV	216	0.11679	-0.36388	6
WFEC	MORLND 138KV	119.8967	-0.37237	OKGE	BLKWLWD1 34.500 69KV	59.8	-0.03158	-0.34081	7
WFEC	MORLND 138KV	119.8967	-0.37237	OKGE	G12-033 0.6500 34KV	70	-0.06575	-0.30662	7
WFEC	MORLND 138KV	119.8967	-0.37237	WFEC	HAMMON CO SUB 138KV	114	-0.07172	-0.30065	7
WFEC	MORLND 138KV	119.8967	-0.37237	OMPA	OMPA-PONCA CITY 69KV	42.13696	-0.02695	-0.34542	7
WFEC	MORLND 138KV	119.8967	-0.37237	AEPW	RKYRDGW1-1 34.500 138KV	150	-0.04273	-0.32964	7
WFEC	MORLND 138KV	119.8967	-0.37237	AEPW	WTH WIND 34.500 34KV	147	-0.04923	-0.32314	7
WFEC	MORLND 138KV	119.8967	-0.37237	OKGE	DEWEY CO SUB 4 138KV	130	-0.07887	-0.2935	8
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.28411	8
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	AEC W1 34.500 115KV	3.65	0.01946	-0.26655	8
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	CLAYGEN1 13.200 115KV	6.935849	0.01821	-0.2653	8
WFEC	ANADARKO 138KV	284	-0.02551	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.24305	9
WFEC	ANADARKO 69KV	70	-0.02726	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.2448	9
GRDA	BOOMER 69KV	24	-0.02372	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.24126	9
OKGE	HORSESHOE LAKE 138KV	558.5483	-0.02287	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.24041	9
OKGE	MCLAIN 138KV	54.40001	-0.02377	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.24131	9
OKGE	MUSTANG 138KV	149.5	-0.02472	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.24286	9
OKGE	MUSTANG 69KV	106	-0.02613	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.24367	9
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	OKGE	OU SPIRIT 138KV	102	0.17438	-0.24095	9
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.24095	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	AES 161KV	320	-0.00848	-0.23861	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	ARSENAL HILL 138KV	509	-0.00795	-0.23914	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	CANEY WFT 0.6900 34KV	199.8	0.00523	-0.25232	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	SWPA	CARTHAGE 161KV	20	-0.00295	-0.24414	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	CITY OF AUGUSTA 69KV	16.45	0.00889	-0.25598	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	CITY OF BURLINGTON 69KV	9.3	0.00684	-0.25393	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	CITY OF MULVANE 69KV	12.12568	0.01024	-0.25733	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01511	-0.2622	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.2563	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	EASTMAN 138KV	310.6949	-0.00866	-0.23843	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	ELK RIVER 345KV	154	0.00583	-0.25292	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	ENIPORIA ENERGY CENTER 345KV	324.4365	0.01558	-0.26267	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	EVANS ENERGY CENTER 138KV	666	0.01645	-0.26354	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	FITZHUGH 161KV	128	-0.00761	-0.23948	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	FLINT CREEK 161KV	528	-0.00753	-0.23956	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	FR2E1WF1 0.6900 34KV	100.2401	0.00177	-0.24879	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	FR2E2WF1 0.6900 34KV	100.2401	0.00177	-0.24879	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	FR2W1WF1 0.6900 34KV	130.4464	0.00177	-0.24879	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	FR2W2WF1 0.6900 34KV	129.0734	0.00177	-0.24879	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	G11_057_3 0.6900 34KV	200	-0.00846	-0.23863	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	GRDA	G13-028ST 17.500 345KV	495.0017	-0.00845	-0.23864	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	GILL ENERGY CENTER 138KV	190	0.01133	-0.25842	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	GRDA	GRDA1 345KV	450.8848	-0.00842	-0.23867	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	SWPA	JBOGENE1 13.800 69KV	82.72202	-0.00122	-0.24587	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.26277	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01559	-0.26268	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	KAYWIND12 0.7000 34KV	280	-0.0058	-0.24129	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	SWPA	KENNETT 69KV	19.14	-0.00033	-0.24676	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	KNOXLEE 138KV	333.3115	-0.0086	-0.23849	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01302	-0.26011	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01328	-0.26037	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	LEBROCK 345KV	227.7492	-0.00864	-0.23845	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	SWPA	MALDEN 69KV	5.978	-0.00002	-0.24707	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	NORTHEASTERN STATION 138KV	851	-0.01064	-0.23645	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	PIRKEY GENERATION 138KV	675	-0.00864	-0.23845	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	SWPA	POPLAR BLUFF 161KV	29.76	0.00033	-0.24742	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	S ALMA 3 115.00 115KV	11.6	0.01596	-0.26305	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	SCRANTON 115KV	4.08	0.01486	-0.26195	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	SWPA	SIKESTON 161KV	235	0.00058	-0.24767	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	SOUTH SENECA 115KV	8.3	0.0157	-0.26279	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01408	-0.26117	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	TURK 138KV	650	-0.01042	-0.23667	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WERE	WAVERGEN1 0.6900 34KV	101	0.00921	-0.2563	9

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

OMPA	OMPA-MANGUM 69KV	5.198	-0.04359	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.26113	9
OMPA	OMPA-PONCA CITY 69KV	98.98605	-0.02695	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.24449	9
OKGE	REDBUD 345KV	133	-0.02185	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.23939	9
OKGE	SEMINOLE 138KV	272	-0.01946	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.237	9
OKGE	SEMINOLE 345KV	559.8	-0.01959	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.23713	9
OKGE	SMITH COGEN 138KV	16	-0.02447	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.24201	9
OKGE	SOONER 138KV	5	-0.02319	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.24073	9
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02537	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.24291	9
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.022	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.23954	9
OKGE	TINKER 5G 138KV	62	-0.02233	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.23987	9
AEPW	ARSENAL HILL 69KV	110	-0.00796	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.2255	9
WERE	CHANUTE 69KV	37.8	0.00104	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.2185	10
WERE	CITY OF ERIE 69KV	20	0.00104	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.2185	10
WERE	CITY OF IOLA 69KV	25.6815	0.00217	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.21537	10
GRDA	COFFGEN6. 1 12.470 69KV	53	-0.00597	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22351	10
AEPW	COGENTRIX 345KV	381.142	-0.01317	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.23071	10
AEPW	EASTMAN 138KV	174.3151	-0.00866	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.2262	10
AEPW	ELKINS GENERATOR 69KV	60	-0.00818	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22572	10
AEPW	FITZHUGH 161KV	37	-0.00761	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22515	10
AEPW	FULTON 115KV	153	-0.0093	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22684	10
WERE	G11.057. 3 0.6900 34KV	151.4	-0.00848	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22618	10
OMPA	G12-041 18.000 345KV	121.5	-0.00942	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22696	10
GRDA	G13-028ST 17.500 345KV	21.39832	-0.00845	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22599	10
GRDA	GRDA1 161KV	490	-0.00891	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22645	10
GRDA	GRDA1 345KV	69.11517	-0.00842	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22596	10
SWPA	JBOGENE1 13.800 69KV	188.078	-0.00122	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.21876	10
SWPA	KENNETT 69KV	15.16	-0.00033	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.2187	10
AEPW	KNOXLEE 138KV	135.6885	-0.00986	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22614	10
AEPW	LEBROCK 345KV	282.2508	-0.00864	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22618	10
AEPW	LIEBERMAN 138KV	242	-0.00808	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22562	10
AEPW	LONESTAR POWER PLANT 69KV	50	-0.00911	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22665	10
SWPA	MALDEN 69KV	8.222	-0.00002	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.21756	10
OKGE	MUSKOGEE 345KV	37.5	-0.01276	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.2303	10
AEPW	NORTH MARSHALL 69KV	5	-0.00855	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22609	10
AEPW	NORTHEASTERN STATION 345KV	481	-0.01283	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.23037	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WFEC	ANADARKO 138KV	363	-0.02551	-0.22158	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	BRADY CO SUB 345KV	99	-0.03158	-0.21553	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	BLUFFCKI 34.500 230KV	99	-0.02156	-0.22553	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	CANDN12 34.500 345KV	298.2	-0.02317	-0.22392	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	CHSHMW1 34.500 345KV	202	-0.02036	-0.22673	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	COGENTRIX 345KV	512.858	-0.01317	-0.23392	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	COMANCHE 138KV	170	-0.01853	-0.22856	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	COMANCHE 69KV	71	-0.01992	-0.22717	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WFEC	COMMANCHE CO SUB 34KV	100	-0.02584	-0.22125	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	GRADY CO SUB 345KV	199	-0.02254	-0.22455	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	HORSESHOE LAKE 138KV	316.4517	-0.02287	-0.22422	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	HORSESHOE LAKE 69KV	16	-0.02249	-0.2246	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WFEC	HUGO 138KV	440	-0.01348	-0.23361	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	MCCLAINE 138KV	465.6	-0.02377	-0.22332	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	MCCLAINE 138.00 138KV	28	-0.02377	-0.22332	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	WFEC	MEERS CO SUB 138KV	74.25	-0.02584	-0.22125	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	MNCWIND31 34.500 345KV	100	-0.02254	-0.22455	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	MUSKOGEE 345KV	1542.5	-0.01276	-0.23433	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	MUSTANG 138KV	221	-0.02472	-0.22237	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	NORTHEASTERN STATION 345KV	460	-0.01283	-0.23426	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	OC 345KV	1230	-0.01198	-0.23511	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OMPA	OMPA-PONCA CITY 69KV	42.13696	-0.02695	-0.22014	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	ORIGIN21 0.6900 34KV	149	-0.01704	-0.23005	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	REDBUD 345KV	1214	-0.02185	-0.22524	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	RIVERSIDE STATION 138KV	908.0001	-0.01313	-0.23396	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	ROARKY CO 0.7000 34KV	99	-0.02156	-0.22553	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	SEMINOLE 138KV	233	-0.01946	-0.22763	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	SEMINOLE 345KV	470	-0.01959	-0.2275	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	SMITH COGEN 138KV	107	-0.02447	-0.22262	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	SOONER 138KV	535	-0.02319	-0.2239	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	SOONER 345KV	537	-0.01726	-0.22983	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	AEPW	SOUTHWESTERN STATION 138KV	311	-0.02537	-0.22172	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	SPRING CREEK UNIT 3 AND 4 345KV	300	-0.022	-0.22509	10
OMPA	OMPA-MANGUM 69KV	5.198	-0.04359	OKGE	OU SPIRIT 138KV	102	0.17438	-0.21797	10
OMPA	OMPA-MANGUM 69KV	5.198	-0.04359	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.21797	10
OMPA	OMPA-PAWHUSKA NORTHEAST 138KV	6.7	-0.01512	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.23266	10
SWPA	PARAGOULD 161KV	31	-0.00082	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.21836	10
SWPA	PIGGOTT 69KV	7.5	-0.00022	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.2177	10
SWPA	POPLAR BLUFF 161KV	4.039999	0.00033	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.21721	10
AEPW	RIVERSIDE STATION 138KV	139	-0.01313	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.23067	10
GRDA	SALINA 161KV	129	-0.00875	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22629	10
AEPW	TONTITOWN 161KV	301	-0.00815	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22569	10
AEPW	TULSA POWER STATION 138KV	307	-0.01296	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.2305	10
AEPW	TURK 138KV	34	-0.01042	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22796	10
AEPW	WELEETKA 138KV	158	-0.01546	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.233	10
AEPW	WELSH 345KV	528	-0.00959	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22713	10
AEPW	WILKES 138KV	148	-0.009	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22654	10
AEPW	WILKES 345KV	4	-0.00884	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.22638	10
WFEC	ANADARKO 138KV	284	-0.02551	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19989	11
WFEC	ANADARKO 138KV	284	-0.02551	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19989	11
WFEC	ANADARKO 69KV	70	-0.02726	OKGE	OU SPIRIT 138KV	102	0.17438	-0.20164	11
WFEC	ANADARKO 69KV	70	-0.02726	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.20164	11
GRDA	BOOMER 69KV	24	-0.02372	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1981	11
GRDA	BOOMER 69KV	24	-0.02372	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1981	11
WERE	BROWN COUNTY 115KV	4.942	0.01512	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20242	11
WERE	COSSHART 12.470 69KV	10	0.00747	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.21007	11
WERE	COSSHART 12.470 69KV	10	0.00747	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.21007	11
WERE	CITY OF AUGUSTA 69KV	10.89	0.00889	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20865	11
WERE	CLAYGEN1 13.200 115KV	22.73415	0.01821	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.19933	11
WERE	COFFEY CO SUB 34KV	200	0.00921	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20833	11
WERE	EMPORIA ENERGY CENTER 345KV	305.5635	0.01558	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20196	11
WERE	EVANS ENERGY CENTER 138KV	164	0.01645	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20109	11
OKGE	HORSESHOE LAKE 138KV	558.5483	-0.02287	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19725	11
OKGE	HORSESHOE LAKE 138KV	558.5483	-0.02287	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19725	11
WERE	JEFFREY ENERGY CENTER 230KV	65	0.01568	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20186	11
WERE	JEFFREY ENERGY CENTER 345KV	110	0.01559	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20195	11
WERE	LAWRENCE ENERGY CENTER 115KV	11.00001	0.01302	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20452	11
WERE	LAWRENCE ENERGY CENTER 230KV	15	0.01328	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20426	11
WERE	MARSHGEN1 0.6900 34KV	73.8	0.0167	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20084	11
OKGE	MCCLAINE 138KV	54.40001	-0.02377	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19815	11
OKGE	MCCLAINE 138KV	54.40001	-0.02377	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19815	11
OKGE	MUSTANG 138KV	149.5	-0.02472	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1991	11
OKGE	MUSTANG 138KV	149.5	-0.02472	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1991	11
OKGE	MUSTANG 69KV	106	-0.02613	OKGE	OU SPIRIT 138KV	102	0.17438	-0.20051	11
OKGE	MUSTANG 69KV	106	-0.02613	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.20051	11
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	A					

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

OKGE	REDBUD 345KV	133	-0.02185	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19623	11
OKGE	REDBUD 345KV	133	-0.02185	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19623	11
WERE	SALINA MAIN 115KV	7.18	0.02128	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.19626	11
OKGE	SMITH COGEN 138KV	16	-0.02447	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19885	11
OKGE	SMITH COGEN 138KV	16	-0.02447	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19885	11
OKGE	SOONER 138KV	5	-0.02319	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19757	11
OKGE	SOONER 138KV	5	-0.02319	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19757	11
WERE	SOUTH SENECA 115KV	8.4	0.0157	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20184	11
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02537	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19975	11
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02537	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19975	11
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.022	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19638	11
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.022	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19638	11
WERE	TECUMSEH ENERGY CENTER 115KV	7	0.01408	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.20346	11
OKGE	TINKER 5G 138KV	62	-0.02233	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19671	11
OKGE	TINKER 5G 138KV	62	-0.02233	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19671	11
AEPW	ARSENAL HILL 69KV	110	-0.00796	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18234	12
AEPW	ARSENAL HILL 69KV	110	-0.00796	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18234	12
WERE	BPU - CITY OF MOPHERSON 115KV	238	0.02348	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.19406	12
GRDA	COFFGEN6 1 12 470 69KV	53	-0.00597	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18035	12
GRDA	COFFGEN6 1 12 470 69KV	53	-0.00597	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18035	12
AEPW	COGENTRIX 345KV	381.142	-0.01317	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18755	12
AEPW	COGENTRIX 345KV	381.142	-0.01317	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18755	12
AEPW	EASTMAN 138KV	174.3151	-0.00866	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18304	12
AEPW	EASTMAN 138KV	174.3151	-0.00866	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18304	12
AEPW	ELKINS GENERATOR 69KV	60	-0.00818	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18256	12
AEPW	ELKINS GENERATOR 69KV	60	-0.00818	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18256	12
AEPW	FITZHUGH 161KV	37	-0.00761	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18199	12
AEPW	FITZHUGH 161KV	37	-0.00761	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18199	12
AEPW	FULTON 115KV	153	-0.0093	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18368	12
AEPW	FULTON 115KV	153	-0.0093	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18368	12
WERE	G11_057_3 0.6900 34KV	151.4	-0.00846	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18284	12
WERE	G11_057_3 0.6900 34KV	151.4	-0.00846	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18284	12
OMPA	G12-041 18.000 345KV	121.5	-0.00942	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1838	12
OMPA	G12-041 18.000 345KV	121.5	-0.00942	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1838	12
GRDA	G13-028ST 17.500 345KV	21.39832	-0.00845	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18283	12
GRDA	G13-028ST 17.500 345KV	21.39832	-0.00845	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18283	12
AEPW	G14-074 345.00 345KV	200	0.02609	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.19145	12
GRDA	GRDA1 161KV	490	-0.00891	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18329	12
GRDA	GRDA1 161KV	490	-0.00891	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18329	12
GRDA	GRDA1 345KV	69.11517	-0.00842	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1828	12
GRDA	GRDA1 345KV	69.11517	-0.00842	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1828	12
WERE	HUTCHINSON ENERGY CENTER 115KV	344	0.02354	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.194	12
WERE	HUTCHINSON ENERGY CENTER 69KV	56	0.02359	OKGE	CENT 21 34.500 138KV	120	0.21754	-0.19395	12
AEPW	KNOXLEE 138KV	135.6885	-0.0086	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18298	12
AEPW	KNOXLEE 138KV	135.6885	-0.0086	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18298	12
AEPW	LEBROCK 345KV	282.2508	-0.00864	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18302	12
AEPW	LEBROCK 345KV	282.2508	-0.00864	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18302	12
AEPW	LIEBERMAN 138KV	242	-0.00808	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18246	12
AEPW	LIEBERMAN 138KV	242	-0.00808	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18246	12
AEPW	LONESTAR POWER PLANT 69KV	50	-0.00911	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18349	12
AEPW	LONESTAR POWER PLANT 69KV	50	-0.00911	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18349	12
OKGE	MUSKOGEE 345KV	37.5	-0.01276	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18714	12
OKGE	MUSKOGEE 345KV	37.5	-0.01276	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18714	12
AEPW	NORTH MARSHALL 69KV	5	-0.00855	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18293	12
AEPW	NORTH MARSHALL 69KV	5	-0.00855	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18293	12
AEPW	NORTHEASTERN STATION 345KV	481	-0.01283	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18721	12
AEPW	NORTHEASTERN STATION 345KV	481	-0.01283	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18721	12
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.18336	12
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06657	OKGE	CRSRD21 34.500 345KV	216	0.16679	-0.18336	12
OMPA	OMPA-LAVERNE 69KV	4	-0.24709	OKGE	G12-033 0.6500 34KV	70	-0.06575	-0.18134	12
OMPA	OMPA-PAWHUSKA NORTHEAST 138KV	6.7	-0.01512	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1895	12
OMPA	OMPA-PAWHUSKA NORTHEAST 138KV	6.7	-0.01512	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1895	12
AEPW	RIVERSIDE STATION 138KV	139	-0.01313	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18751	12
AEPW	RIVERSIDE STATION 138KV	139	-0.01313	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18751	12
GRDA	SALINA 161KV	129	-0.00875	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18313	12
GRDA	SALINA 161KV	129	-0.00875	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18313	12
OKGE	SEMINOLE 138KV	272	-0.01946	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19384	12
OKGE	SEMINOLE 138KV	272	-0.01946	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19384	12
OKGE	SEMINOLE 345KV	559.6	-0.01959	OKGE	OU SPIRIT 138KV	102	0.17438	-0.19397	12
OKGE	SEMINOLE 345KV	559.6	-0.01959	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.19397	12
AEPW	TONTITOWN 161KV	301	-0.00815	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18253	12
AEPW	TONTITOWN 161KV	301	-0.00815	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18253	12
AEPW	TULSA POWER STATION 138KV	307	-0.01296	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18734	12
AEPW	TULSA POWER STATION 138KV	307	-0.01296	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18734	12
AEPW	TURK 138KV	34	-0.01042	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1848	12
AEPW	TURK 138KV	34	-0.01042	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1848	12
AEPW	WELEETKA 138KV	158	-0.01546	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18984	12
AEPW	WELEETKA 138KV	158	-0.01546	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18984	12
AEPW	WELSH 345KV	528	-0.00959	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18397	12
AEPW	WELSH 345KV	528	-0.00959	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18397	12
AEPW	WILKES 138KV	148	-0.009	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18338	12
AEPW	WILKES 138KV	148	-0.009	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18338	12
AEPW	WILKES 345KV	4	-0.00884	OKGE	OU SPIRIT 138KV	102	0.17438	-0.18322	12
AEPW	WILKES 345KV	4	-0.00884	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.18322	12
WERE	CCSSHAR1 12 470 69KV	10	0.00747	OKGE	OU SPIRIT 138KV	102	0.17438	-0.16691	13
WERE	CCSSHAR1 12 470 69KV	10	0.00747	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.16691	13
WERE	CCSSHAR1 12 470 69KV	10	0.00747	OKGE	OU SPIRIT 138KV	102	0.17438	-0.16691	13
WERE	CCSSHAR1 12 470 69KV	10	0.00747	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.16691	13
WERE	CHANUTE 69KV	37.8	0.00104	OKGE	OU SPIRIT 138KV	102	0.17438	-0.17334	13
WERE	CHANUTE 69KV	37.8	0.00104	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.17334	13
WERE	CITY OF ERIE 69KV	20	0.00104	OKGE	OU SPIRIT 138KV	102	0.17438	-0.17334	13
WERE	CITY OF ERIE 69KV	20	0.00104	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.17334	13
WERE	CITY OF IOLA 69KV	25.6815	0.00217	OKGE	OU SPIRIT 138KV	102	0.17438	-0.17221	13
WERE	CITY OF IOLA 69KV	25.6815	0.00217	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.17221	13
SWPA	JBOGENE1 13.800 69KV	188.078	-0.0122	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1758	13
SWPA	JBOGENE1 13.800 69KV	188.078	-0.0122	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1758	13
SWPA	KENNETT 69KV	15.16	-0.00033	OKGE	OU SPIRIT 138KV	102	0.17438	-0.17471	13
SWPA	KENNETT 69KV	15.16	-0.00033	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.17471	13
SWPA	MALDEN 69KV	8.222	-0.00002	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1744	13
SWPA	MALDEN 69KV	8.222	-0.00002	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1744	13
SWPA	PARAGOULD 161KV	31	-0.00082	OKGE	OU SPIRIT 138KV	102	0.1743		

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

WERE	EMPORIA ENERGY CENTER 345KV	305.5635	0.01558	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1588	14
WERE	EMPORIA ENERGY CENTER 345KV	305.5635	0.01558	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1588	14
WERE	EVANS ENERGY CENTER 138KV	164	0.01645	OKGE	OU SPIRIT 138KV	102	0.17438	-0.15793	14
WERE	EVANS ENERGY CENTER 138KV	164	0.01645	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.15793	14
WERE	JEFFREY ENERGY CENTER 230KV	55	0.01568	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1587	14
WERE	JEFFREY ENERGY CENTER 230KV	55	0.01568	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1587	14
WERE	JEFFREY ENERGY CENTER 345KV	110	0.01559	OKGE	OU SPIRIT 138KV	102	0.17438	-0.15879	14
WERE	JEFFREY ENERGY CENTER 345KV	110	0.01559	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.15879	14
WERE	LAWRENCE ENERGY CENTER 115KV	11.00001	0.01302	OKGE	OU SPIRIT 138KV	102	0.17438	-0.16136	14
WERE	LAWRENCE ENERGY CENTER 115KV	11.00001	0.01302	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.16136	14
WERE	LAWRENCE ENERGY CENTER 230KV	15	0.01328	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1611	14
WERE	LAWRENCE ENERGY CENTER 230KV	15	0.01328	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1611	14
WERE	MARSHGEN1 0.6900 34KV	73.8	0.0167	OKGE	OU SPIRIT 138KV	102	0.17438	-0.15768	14
WERE	MARSHGEN1 0.6900 34KV	73.8	0.0167	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.15768	14
OMPA	OMPA-MANGUM 69KV	5.198	-0.04359	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.16038	14
OMPA	OMPA-MANGUM 69KV	5.198	-0.04359	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.16038	14
WERE	SOUTH SENECA 115KV	8.4	0.0157	OKGE	OU SPIRIT 138KV	102	0.17438	-0.15868	14
WERE	SOUTH SENECA 115KV	8.4	0.0157	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.15868	14
WERE	TECUMSEH ENERGY CENTER 115KV	7	0.01408	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1603	14
WERE	TECUMSEH ENERGY CENTER 115KV	7	0.01408	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1603	14
WERE	BPU - CITY OF MCPHERSON 115KV	238	0.02348	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1509	15
WERE	BPU - CITY OF MCPHERSON 115KV	238	0.02348	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1509	15
AEPW	G14-074 345.00 345KV	200	0.02609	OKGE	OU SPIRIT 138KV	102	0.17438	-0.14829	15
AEPW	G14-074 345.00 345KV	200	0.02609	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.14829	15
WERE	HUTCHINSON ENERGY CENTER 115KV	344	0.02354	OKGE	OU SPIRIT 138KV	102	0.17438	-0.15084	15
WERE	HUTCHINSON ENERGY CENTER 115KV	344	0.02354	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.15084	15
WERE	HUTCHINSON ENERGY CENTER 69KV	56	0.02359	OKGE	OU SPIRIT 138KV	102	0.17438	-0.15079	15
WERE	HUTCHINSON ENERGY CENTER 69KV	56	0.02359	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.15079	15
WERE	SALINA MAIN 115KV	7.18	0.02128	OKGE	OU SPIRIT 138KV	102	0.17438	-0.1531	15
WERE	SALINA MAIN 115KV	7.18	0.02128	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17438	-0.1531	15
WFEC	ANADARKO 138KV	284	-0.02551	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.1423	16
WFEC	ANADARKO 138KV	284	-0.02551	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.1423	16
WFEC	ANADARKO 69KV	70	-0.02726	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.14405	16
WFEC	ANADARKO 69KV	70	-0.02726	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.14405	16
GRDA	BOOMER 69KV	24	-0.02372	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.14051	16
GRDA	BOOMER 69KV	24	-0.02372	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.14051	16
OKGE	HORSESHOE LAKE 138KV	558.5483	-0.02287	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.13966	16
OKGE	HORSESHOE LAKE 138KV	558.5483	-0.02287	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.13966	16
OKGE	MCCLAIN 138KV	54.40001	-0.02377	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.14056	16
OKGE	MCCLAIN 138KV	54.40001	-0.02377	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.14056	16
OKGE	MUSTANG 138KV	149.5	-0.02472	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.14151	16
OKGE	MUSTANG 138KV	149.5	-0.02472	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.14151	16
OKGE	MUSTANG 69KV	106	-0.02613	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.14292	16
OKGE	MUSTANG 69KV	106	-0.02613	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.14292	16
OMPA	OMPA-PONCA CITY 69KV	98.98605	-0.02695	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.14374	16
OMPA	OMPA-PONCA CITY 69KV	98.98605	-0.02695	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.14374	16
OKGE	REDBUD 345KV	133	-0.02185	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.13864	16
OKGE	REDBUD 345KV	133	-0.02185	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.13864	16
OKGE	SEMINOLE 138KV	272	-0.01946	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.13625	16
OKGE	SEMINOLE 138KV	272	-0.01946	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.13625	16
OKGE	SEMINOLE 345KV	559.6	-0.01959	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.13638	16
OKGE	SEMINOLE 345KV	559.6	-0.01959	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.13638	16
OKGE	SMITH COGEN 138KV	16	-0.02447	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.14126	16
OKGE	SMITH COGEN 138KV	16	-0.02447	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.14126	16
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02537	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.14216	16
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02537	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.14216	16
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.022	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.13879	16
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.022	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.13879	16
OKGE	TINKER 5G 138KV	62	-0.02233	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.13912	16
OKGE	TINKER 5G 138KV	62	-0.02233	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.13912	16
AEPW	COGENTRIX 345KV	381.142	-0.01317	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12996	17
AEPW	COGENTRIX 345KV	381.142	-0.01317	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12996	17
OKGE	MUSKOGEE 345KV	37.5	-0.01276	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12955	17
OKGE	MUSKOGEE 345KV	37.5	-0.01276	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12955	17
AEPW	NORTHEASTERN STATION 345KV	481	-0.01283	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12962	17
AEPW	NORTHEASTERN STATION 345KV	481	-0.01283	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12962	17
OMPA	OMPA-PAWHUSKA NORTHEAST 138KV	6.7	-0.01512	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.13191	17
OMPA	OMPA-PAWHUSKA NORTHEAST 138KV	6.7	-0.01512	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.13191	17
AEPW	RIVERSIDE STATION 138KV	139	-0.01313	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12992	17
AEPW	RIVERSIDE STATION 138KV	139	-0.01313	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12992	17
AEPW	TULSA POWER STATION 138KV	307	-0.01296	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12975	17
AEPW	TULSA POWER STATION 138KV	307	-0.01296	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12975	17
AEPW	WELEETKA 138KV	158	-0.01546	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.13225	17
AEPW	WELEETKA 138KV	158	-0.01546	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.13225	17
AEPW	ARSENAL HILL 69KV	110	-0.00796	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12475	18
AEPW	ARSENAL HILL 69KV	110	-0.00796	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12475	18
GRDA	COFFGEN6 1 12 470 69KV	53	-0.00597	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12276	18
GRDA	COFFGEN6 1 12 470 69KV	53	-0.00597	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12276	18
AEPW	EASTMAN 138KV	174.3151	-0.00866	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12545	18
AEPW	EASTMAN 138KV	174.3151	-0.00866	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12545	18
AEPW	ELKINS GENERATOR 69KV	60	-0.00818	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12497	18
AEPW	ELKINS GENERATOR 69KV	60	-0.00818	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12497	18
AEPW	FITZHUGH 161KV	37	-0.00761	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.1244	18
AEPW	FITZHUGH 161KV	37	-0.00761	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.1244	18
AEPW	FULTON 115KV	153	-0.0093	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12609	18
AEPW	FULTON 115KV	153	-0.0093	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12609	18
WERE	G11 057 3 0.6900 34KV	151.4	-0.00846	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12529	18
WERE	G11 057 3 0.6900 34KV	151.4	-0.00846	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12529	18
OMPA	G12-041 18.000 345KV	121.5	-0.00942	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12621	18
OMPA	G12-041 18.000 345KV	121.5	-0.00942	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12621	18
GRDA	G13-028ST 17.500 345KV	21.39832	-0.00845	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12524	18
GRDA	G13-028ST 17.500 345KV	21.39832	-0.00845	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12524	18
GRDA	GRDA1 161KV	490	-0.00891	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.1257	18
GRDA	GRDA1 161KV	490	-0.00891	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.1257	18
GRDA	GRDA1 345KV	69.11517	-0.00842	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12521	18
GRDA	GRDA1 345KV	69.11517	-0.00842	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12521	18
AEPW	KNOXLEE 138KV	135.6885	-0.0086	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12539	18
AEPW	KNOXLEE 138KV	135.6885	-0.0086	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12539	18
AEPW	LEBROCK 345KV	282.2508	-0.00864	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12543	18

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

GRDA	SALINA 161KV	129	-0.00875	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12554	18
GRDA	SALINA 161KV	129	-0.00875	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12554	18
AEPW	TONITOWNS 161KV	301	-0.00815	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12494	18
AEPW	TONITOWNS 161KV	301	-0.00815	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12494	18
AEPW	TURK 138KV	34	-0.01042	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12721	18
AEPW	TURK 138KV	34	-0.01042	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12721	18
AEPW	WELSH 345KV	528	-0.00959	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12638	18
AEPW	WELSH 345KV	528	-0.00959	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12638	18
AEPW	WILKES 138KV	148	-0.009	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.12579	18
AEPW	WILKES 138KV	148	-0.009	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.12579	18
WERE	CHANUTE 69KV	37.8	0.00104	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.11575	19
WERE	CHANUTE 69KV	37.8	0.00104	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.11575	19
WERE	CITY OF ERIE 69KV	20	0.00104	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.11575	19
WERE	CITY OF ERIE 69KV	20	0.00104	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.11575	19
SWPA	JBOGENE1 13.800 69KV	188.078	-0.00122	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.11801	19
SWPA	JBOGENE1 13.800 69KV	188.078	-0.00122	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.11801	19
SWPA	KENNETT 69KV	15.16	-0.00033	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.11712	19
SWPA	KENNETT 69KV	15.16	-0.00033	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.11712	19
SWPA	MALDEN 69KV	8.222	-0.00002	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.11681	19
SWPA	MALDEN 69KV	8.222	-0.00002	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.11681	19
SWPA	PARAGOULD 161KV	31	-0.00082	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.11781	19
SWPA	PARAGOULD 161KV	31	-0.00082	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.11781	19
SWPA	PIGGOTT 69KV	7.5	-0.00022	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.11701	19
SWPA	PIGGOTT 69KV	7.5	-0.00022	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.11701	19
WERE	CITY OF IOLA 69KV	25.6815	0.00217	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.11462	20
WERE	CITY OF IOLA 69KV	25.6815	0.00217	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.11462	20
WERE	CCSSHAR1 12.470 69KV	10	0.00747	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.10932	21
WERE	CCSSHAR1 12.470 69KV	10	0.00747	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.10932	21
WERE	CCSSHAR1 12.470 69KV	10	0.00747	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.10932	21
WERE	CCSSHAR1 12.470 69KV	10	0.00747	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.10932	21
WERE	CITY OF AUGUSTA 69KV	10.89	0.00889	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.1079	21
WERE	CITY OF AUGUSTA 69KV	10.89	0.00889	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.1079	21
WERE	COFFEY CO SUB 34KV	200	0.00921	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.10758	21
WERE	COFFEY CO SUB 34KV	200	0.00921	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.10758	21
WERE	EMPORIA ENERGY CENTER 345KV	305.5635	0.01558	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.10121	22
WERE	EMPORIA ENERGY CENTER 345KV	305.5635	0.01558	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.10121	22
WERE	EVANS ENERGY CENTER 138KV	164	0.01645	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.10034	22
WERE	EVANS ENERGY CENTER 138KV	164	0.01645	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.10034	22
WERE	JEFFREY ENERGY CENTER 230KV	55	0.01568	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.10111	22
WERE	JEFFREY ENERGY CENTER 230KV	55	0.01568	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.10111	22
WERE	JEFFREY ENERGY CENTER 345KV	110	0.01559	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.1012	22
WERE	JEFFREY ENERGY CENTER 345KV	110	0.01559	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.1012	22
WERE	LAWRENCE ENERGY CENTER 115KV	11.00001	0.01302	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.10377	22
WERE	LAWRENCE ENERGY CENTER 115KV	11.00001	0.01302	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.10377	22
WERE	LAWRENCE ENERGY CENTER 230KV	15	0.01328	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.10351	22
WERE	LAWRENCE ENERGY CENTER 230KV	15	0.01328	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.10351	22
WERE	MARSHGEN1 0.6900 34KV	73.8	0.0167	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.10009	22
WERE	MARSHGEN1 0.6900 34KV	73.8	0.0167	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.10009	22
WERE	SOUTH SENECA 115KV	8.4	0.0157	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.10109	22
WERE	SOUTH SENECA 115KV	8.4	0.0157	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.10109	22
WERE	CLAYGEN1 13.200 115KV	22.73415	0.01821	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.09858	23
WERE	CLAYGEN1 13.200 115KV	22.73415	0.01821	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.09858	23
WERE	BPU - CITY OF MCPHERSON 115KV	238	0.02348	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.09331	24
WERE	BPU - CITY OF MCPHERSON 115KV	238	0.02348	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.09331	24
WERE	HUTCHINSON ENERGY CENTER 115KV	344	0.02354	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.09325	24
WERE	HUTCHINSON ENERGY CENTER 115KV	344	0.02354	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.09325	24
WERE	HUTCHINSON ENERGY CENTER 69KV	56	0.02359	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.0932	24
WERE	HUTCHINSON ENERGY CENTER 69KV	56	0.02359	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.0932	24
AEPW	G14-074 345.00 345KV	200	0.02609	OKGE	BLAINE CO SUB 2 34KV	299	0.11679	-0.0907	25
AEPW	G14-074 345.00 345KV	200	0.02609	OKGE	CRSRDW21 34.500 345KV	216	0.11679	-0.0907	25
WFEC	MORLAND 138KV	119.8967	-0.37237	WFEC	SLEEPING BEAR 138KV	80	-0.29418	-0.07819	29
WFEC	ANADARKO 69KV	70	-0.02726	WERE	EVANS ENERGY CENTER 138KV	666	0.01645	-0.04371	51
WFEC	ANADARKO 69KV	70	-0.02726	WERE	EMPORIA ENERGY CENTER 345KV	324.4365	0.01558	-0.04284	52
WFEC	ANADARKO 69KV	70	-0.02726	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.04294	52
WFEC	ANADARKO 69KV	70	-0.02726	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01559	-0.04285	52
OMPA	OMPA-PONCA CITY 69KV	98.98605	-0.02695	WERE	EVANS ENERGY CENTER 138KV	666	0.01645	-0.0434	52
OKGE	MUSTANG 69KV	106	-0.02613	WERE	EVANS ENERGY CENTER 138KV	666	0.01645	-0.04258	53
OMPA	OMPA-PONCA CITY 69KV	98.98605	-0.02695	WERE	EMPORIA ENERGY CENTER 345KV	324.4365	0.01558	-0.04253	53
OMPA	OMPA-PONCA CITY 69KV	98.98605	-0.02695	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.04263	53
OMPA	OMPA-PONCA CITY 69KV	98.98605	-0.02695	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01559	-0.04254	53
WFEC	ANADARKO 138KV	284	-0.02551	WERE	EVANS ENERGY CENTER 138KV	666	0.01645	-0.04196	54
WFEC	ANADARKO 69KV	70	-0.02726	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01408	-0.04134	54
OKGE	MUSTANG 69KV	106	-0.02613	WERE	EMPORIA ENERGY CENTER 345KV	324.4365	0.01558	-0.04171	54
OKGE	MUSTANG 69KV	106	-0.02613	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.04181	54
OKGE	MUSTANG 69KV	106	-0.02613	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01559	-0.04172	54
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02537	WERE	EVANS ENERGY CENTER 138KV	666	0.01645	-0.04182	54
WFEC	ANADARKO 138KV	284	-0.02551	WERE	EMPORIA ENERGY CENTER 345KV	324.4365	0.01558	-0.04109	55
WFEC	ANADARKO 138KV	284	-0.02551	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.04119	55
WFEC	ANADARKO 138KV	284	-0.02551	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01559	-0.0411	55
WFEC	ANADARKO 69KV	70	-0.02726	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01328	-0.04054	55
OKGE	MUSTANG 138KV	149.5	-0.02472	WERE	EVANS ENERGY CENTER 138KV	666	0.01645	-0.04117	55
OMPA	OMPA-PONCA CITY 69KV	98.98605	-0.02695	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01408	-0.04103	55
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02537	WERE	EMPORIA ENERGY CENTER 345KV	324.4365	0.01558	-0.04095	55
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02537	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.04105	55
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02537	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01559	-0.04096	55

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

WFEC	ANADARKO 69KV	70	-0.02726	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01302	-0.04028	56
GRDA	BOOMER 69KV	24	-0.02372	WERE	EVANS ENERGY CENTER 138KV	666	0.01645	-0.04017	56
OKGE	MCCLAIN 138KV	54.40001	-0.02377	WERE	EVANS ENERGY CENTER 138KV	666	0.01645	-0.04022	56
OKGE	MUSTANG 138KV	149.5	-0.02472	WERE	EMPORIA ENERGY CENTER 345KV	324.4365	0.01558	-0.0403	56
OKGE	MUSTANG 138KV	149.5	-0.02472	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.0404	56
OKGE	MUSTANG 138KV	149.5	-0.02472	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01559	-0.04031	56
OKGE	MUSTANG 69KV	106	-0.02613	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01408	-0.04021	56
OMPA	OMPA-PONCA CITY 69KV	98.98605	-0.02695	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01302	-0.03997	56
OMPA	OMPA-PONCA CITY 69KV	98.98605	-0.02695	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01328	-0.04023	56
WFEC	ANADARKO 138KV	284	-0.02551	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01408	-0.03959	57
GRDA	BOOMER 69KV	24	-0.02372	WERE	EMPORIA ENERGY CENTER 345KV	324.4365	0.01558	-0.0393	57
GRDA	BOOMER 69KV	24	-0.02372	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.0394	57
GRDA	BOOMER 69KV	24	-0.02372	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01559	-0.03931	57
OKGE	HORSESHOE LAKE 138KV	558.5483	-0.02287	WERE	EVANS ENERGY CENTER 138KV	666	0.01645	-0.03932	57
OKGE	MCCLAIN 138KV	54.40001	-0.02377	WERE	EMPORIA ENERGY CENTER 345KV	324.4365	0.01558	-0.03935	57
OKGE	MCCLAIN 138KV	54.40001	-0.02377	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.03945	57
OKGE	MCCLAIN 138KV	54.40001	-0.02377	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01559	-0.03936	57
OKGE	MUSTANG 69KV	106	-0.02613	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01302	-0.03915	57
OKGE	MUSTANG 69KV	106	-0.02613	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01328	-0.03941	57
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02537	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01408	-0.03945	57
WFEC	ANADARKO 138KV	284	-0.02551	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01302	-0.03853	58
WFEC	ANADARKO 138KV	284	-0.02551	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01328	-0.03879	58
WFEC	ANADARKO 69KV	70	-0.02726	WERE	GILL ENERGY CENTER 138KV	180	0.01133	-0.03859	58
OKGE	HORSESHOE LAKE 138KV	558.5483	-0.02287	WERE	EMPORIA ENERGY CENTER 345KV	324.4365	0.01558	-0.03845	58
OKGE	HORSESHOE LAKE 138KV	558.5483	-0.02287	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.03855	58
OKGE	HORSESHOE LAKE 138KV	558.5483	-0.02287	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01559	-0.03846	58
OKGE	MUSTANG 138KV	149.5	-0.02472	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01408	-0.0388	58
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02537	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01302	-0.03839	58
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02537	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01328	-0.03865	58
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.022	WERE	EVANS ENERGY CENTER 138KV	666	0.01645	-0.03845	58
OKGE	TINKER 5G 138KV	62	-0.02233	WERE	EVANS ENERGY CENTER 138KV	666	0.01645	-0.03878	58
GRDA	BOOMER 69KV	24	-0.02372	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01408	-0.0378	59
OKGE	MCCLAIN 138KV	54.40001	-0.02377	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01408	-0.03785	59
OKGE	MUSTANG 138KV	149.5	-0.02472	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01302	-0.03774	59
OKGE	MUSTANG 138KV	149.5	-0.02472	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01328	-0.038	59
OMPA	OMPA-PONCA CITY 69KV	98.98605	-0.02695	WERE	GILL ENERGY CENTER 138KV	180	0.01133	-0.03828	59
OKGE	REDBUD 345KV	133	-0.02185	WERE	EVANS ENERGY CENTER 138KV	666	0.01645	-0.0383	59
OKGE	TINKER 5G 138KV	62	-0.02233	WERE	EMPORIA ENERGY CENTER 345KV	324.4365	0.01558	-0.03791	59
OKGE	TINKER 5G 138KV	62	-0.02233	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.03801	59
OKGE	TINKER 5G 138KV	62	-0.02233	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01559	-0.03792	59
OKGE	MUSTANG 69KV	106	-0.02613	WERE	GILL ENERGY CENTER 138KV	180	0.01133	-0.03746	60
OKGE	REDBUD 345KV	133	-0.02185	WERE	EMPORIA ENERGY CENTER 345KV	324.4365	0.01558	-0.03743	60
OKGE	REDBUD 345KV	133	-0.02185	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.03753	60
OKGE	REDBUD 345KV	133	-0.02185	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01559	-0.03744	60
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.022	WERE	EMPORIA ENERGY CENTER 345KV	324.4365	0.01558	-0.03758	60
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.022	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.03768	60
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.022	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01559	-0.03759	60
WFEC	ANADARKO 138KV	284	-0.02551	WERE	GILL ENERGY CENTER 138KV	180	0.01133	-0.03684	61
GRDA	BOOMER 69KV	24	-0.02372	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01302	-0.03674	61
GRDA	BOOMER 69KV	24	-0.02372	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01328	-0.037	61
OKGE	HORSESHOE LAKE 138KV	558.5483	-0.02287	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01408	-0.03695	61
OKGE	MCCLAIN 138KV	54.40001	-0.02377	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01302	-0.03679	61
OKGE	MCCLAIN 138KV	54.40001	-0.02377	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01328	-0.03705	61
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02537	WERE	GILL ENERGY CENTER 138KV	180	0.01133	-0.0367	61
WFEC	ANADARKO 69KV	70	-0.02726	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.03647	62
WFEC	ANADARKO 69KV	70	-0.02726	WERE	WAVERGEN1 0.6900 34KV	101	0.00921	-0.03647	62
OKGE	HORSESHOE LAKE 138KV	558.5483	-0.02287	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01328	-0.03615	62
OKGE	MUSTANG 138KV	149.5	-0.02472	WERE	GILL ENERGY CENTER 138KV	180	0.01133	-0.03605	62
OMPA	OMPA-PONCA CITY 69KV	98.98605	-0.02695	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.03616	62
OMPA	OMPA-PONCA CITY 69KV	98.98605	-0.02695	WERE	WAVERGEN1 0.6900 34KV	101	0.00921	-0.03616	62
OKGE	REDBUD 345KV	133	-0.02185	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01408	-0.03593	62
OKGE	SEMINOLE 345KV	559.6	-0.01959	WERE	EVANS ENERGY CENTER 138KV	666	0.01645	-0.03604	62
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.022	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01408	-0.03608	62
OKGE	TINKER 5G 138KV	62	-0.02233	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01408	-0.03641	62
OKGE	HORSESHOE LAKE 138KV	558.5483	-0.02287	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01302	-0.03589	63
OKGE	SEMINOLE 138KV	272	-0.01946	WERE	EVANS ENERGY CENTER 138KV	666	0.01645	-0.03591	63

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

OKGE	TINKER 5G 138KV	62	-0.02233	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01328	-0.03561	63
GRDA	BOOMER 69KV	24	-0.02372	WERE	GILL ENERGY CENTER 138KV	180	0.01133	-0.03505	64
OKGE	MCCLAIN 138KV	54.40001	-0.02377	WERE	GILL ENERGY CENTER 138KV	180	0.01133	-0.0351	64
OKGE	MUSTANG 69KV	106	-0.02613	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.03534	64
OKGE	MUSTANG 69KV	106	-0.02613	WERE	WAVARGER1 0.6900 34KV	101	0.00921	-0.03534	64
OKGE	REDBUD 345KV	133	-0.02185	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01302	-0.03487	64
OKGE	REDBUD 345KV	133	-0.02185	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01328	-0.03513	64
OKGE	SEMINOLE 138KV	272	-0.01946	WERE	EMPORIA ENERGY CENTER 345KV	324.4365	0.01558	-0.03504	64
OKGE	SEMINOLE 138KV	272	-0.01946	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.03514	64
OKGE	SEMINOLE 138KV	272	-0.01946	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01559	-0.03505	64
OKGE	SEMINOLE 345KV	559.6	-0.01959	WERE	EMPORIA ENERGY CENTER 345KV	324.4365	0.01558	-0.03517	64
OKGE	SEMINOLE 345KV	559.6	-0.01959	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.03527	64
OKGE	SEMINOLE 345KV	559.6	-0.01959	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01559	-0.03518	64
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.022	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01302	-0.03502	64
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.022	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01328	-0.03528	64
OKGE	TINKER 5G 138KV	62	-0.02233	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01302	-0.03535	64
WFEC	ANADARKO 138KV	284	-0.02551	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.03472	65
WFEC	ANADARKO 138KV	284	-0.02551	WERE	WAVARGER1 0.6900 34KV	101	0.00921	-0.03472	65
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02537	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.03458	65
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02537	WERE	WAVARGER1 0.6900 34KV	101	0.00921	-0.03458	65
OKGE	HORSESHOE LAKE 138KV	558.5483	-0.02287	WERE	GILL ENERGY CENTER 138KV	180	0.01133	-0.0342	66
OKGE	MUSTANG 138KV	149.5	-0.02472	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.03393	66
OKGE	MUSTANG 138KV	149.5	-0.02472	WERE	WAVARGER1 0.6900 34KV	101	0.00921	-0.03393	66
OKGE	SEMINOLE 138KV	272	-0.01946	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01408	-0.03354	67
OKGE	SEMINOLE 345KV	559.6	-0.01959	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01408	-0.03367	67
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.022	WERE	GILL ENERGY CENTER 138KV	180	0.01133	-0.03333	67
OKGE	TINKER 5G 138KV	62	-0.02233	WERE	GILL ENERGY CENTER 138KV	180	0.01133	-0.03366	67
WFEC	ANADARKO 69KV	70	-0.02726	WERE	ELK RIVER 345KV	150	0.00583	-0.03309	68
GRDA	BOOMER 69KV	24	-0.02372	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.03293	68
OKGE	MCCLAIN 138KV	54.40001	-0.02377	WERE	WAVARGER1 0.6900 34KV	101	0.00921	-0.03293	68
OKGE	MCCLAIN 138KV	54.40001	-0.02377	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.03298	68
OKGE	MPA-PONCA CITY 69KV	98.98605	-0.02695	WERE	WAVARGER1 0.6900 34KV	101	0.00921	-0.03298	68
OKGE	REDBUD 345KV	133	-0.02185	WERE	ELK RIVER 345KV	150	0.00583	-0.03278	68
OKGE	SEMINOLE 345KV	559.6	-0.01959	WERE	GILL ENERGY CENTER 138KV	180	0.01133	-0.03318	68
WFEC	ANADARKO 69KV	70	-0.02726	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01328	-0.03287	68
OKGE	SEMINOLE 138KV	272	-0.01946	WERE	CANEYWF1 0.6900 34KV	199.8	0.00523	-0.03249	69
OKGE	SEMINOLE 138KV	272	-0.01946	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01302	-0.03248	69
OKGE	SEMINOLE 138KV	272	-0.01946	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01328	-0.03274	69
OKGE	SEMINOLE 345KV	559.6	-0.01959	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01302	-0.03261	69
OKGE	HORSESHOE LAKE 138KV	558.5483	-0.02287	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.03208	70
OKGE	HORSESHOE LAKE 138KV	558.5483	-0.02287	WERE	WAVARGER1 0.6900 34KV	101	0.00921	-0.03208	70
OKGE	MUSTANG 69KV	106	-0.02613	WERE	ELK RIVER 345KV	150	0.00583	-0.03196	70
OKGE	MPA-PONCA CITY 69KV	98.98605	-0.02695	WERE	CANEYWF1 0.6900 34KV	199.8	0.00523	-0.03218	70
AEPW	WELEETKA 138KV	158	-0.01546	WERE	EVANS ENERGY CENTER 138KV	666	0.01645	-0.03191	70
OKGE	TINKER 5G 138KV	62	-0.02233	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.03154	71
OKGE	TINKER 5G 138KV	62	-0.02233	WERE	WAVARGER1 0.6900 34KV	101	0.00921	-0.03154	71
WFEC	ANADARKO 138KV	284	-0.02551	WERE	ELK RIVER 345KV	150	0.00583	-0.03134	72
OKGE	MUSTANG 69KV	106	-0.02613	WERE	CANEYWF1 0.6900 34KV	199.8	0.00523	-0.03136	72
OKGE	REDBUD 345KV	133	-0.02185	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.03106	72
OKGE	REDBUD 345KV	133	-0.02185	WERE	WAVARGER1 0.6900 34KV	101	0.00921	-0.03106	72
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02537	WERE	ELK RIVER 345KV	150	0.00583	-0.0312	72
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.022	WERE	COFFEY CO SUB 34KV	201	0.00921	-0.03121	72
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.022	WERE	WAVARGER1 0.6900 34KV	101	0.00921	-0.03121	72
AEPW	WELEETKA 138KV	158	-0.01546	WERE	EMPORIA ENERGY CENTER 345KV	324.4365	0.01558	-0.03104	72
AEPW	WELEETKA 138KV	158	-0.01546	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01568	-0.03114	72
AEPW	WELEETKA 138KV	158	-0.01546	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01559	-0.03105	72
WFEC	ANADARKO 138KV	284	-0.02551	WERE	CANEYWF1 0.6900 34KV	199.8	0.00523	-0.03074	73
OKGE	MUSTANG 138KV	149.5	-0.02472	WERE	ELK RIVER 345KV	150	0.00583	-0.03055	73
OKGE	SEMINOLE 138KV	272	-0.01946	WERE	GILL ENERGY CENTER 138KV	180	0.01133	-0.03079	73
OKGE	SEMINOLE 345KV	559.6	-0.01959	WERE	GILL ENERGY CENTER 138KV	180	0.01133	-0.03092	73
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02537	WERE	CANEYWF1 0.6900 34KV	199.8	0.00523	-0.0306	73

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 - Matthewson - Cimarron
 Limiting Facility: FPL SWITCH - WOODWARD 138KV CKT 1
 Direction: TO->FROM
 Line Outage: SPSCONT-05B
 Flowgate: 2015AG1AFS41T13635516SP
 Date Redispatch Needed: Starting 2016 6/1 - 10/1 Unit EOC of Upgrade

Season Flowgate Identified: 2016 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount							
81651752	2.3	2.3							
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.59081	4
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	OU SPIRIT 138KV	102	0.17315	-0.54779	4
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.54779	4
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.49058	5
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.49058	5
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.46494	5
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	OU SPIRIT 138KV	102	0.17315	-0.42192	5
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.42192	5
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	6TH STREET 115KV	218	0.01333	-0.38797	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	AES 161KV	320	0.00817	-0.36647	6
WFEC	MORLND 138KV	190.6974	-0.37464	WFEC	ANADARKO 138KV	363	-0.02514	-0.3495	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	ARSENAL HILL 138KV	509	-0.00754	-0.3671	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	CANDN12 34.500 345KV	298.2	-0.0222	-0.35244	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	CANEYWF1 0.6900 34KV	199.8	0.00691	-0.38055	6
WFEC	MORLND 138KV	190.6974	-0.37464	SWPA	CARTHAGE 69KV	20	-0.00196	-0.37268	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	CHSHMW1 34.500 345KV	202	-0.02114	-0.3535	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.38451	6

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

WFEC	MORLND 138KV	190.6974	-0.37464	WERE	CITY OF BURLINGTON 69KV	7.3	0.00738	-0.38202	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	CITY OF MULVANE 69KV	10.89689	0.01244	-0.38708	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01547	-0.39011	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.38438	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	COGENTRV 345KV	512.08299	-0.01264	-0.352	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	COMANCHE 138KV	170	-0.0174	-0.35724	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	COMANCHE 69KV	71	-0.01897	-0.35567	6
WFEC	MORLND 138KV	190.6974	-0.37464	WFEC	COMMANCHE CO SUB 34KV	100	-0.02494	-0.3497	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	EASTMAN 138KV	350.4174	-0.00821	-0.36643	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	ELK RIVER 345KV	150	0.00654	-0.38118	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.39054	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.39256	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	FITZHUGH 161KV	46.9969	-0.0073	-0.36734	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	FLINT CREEK 161KV	528	-0.0071	-0.36754	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	FR2E1WF1 0.6900 34KV	100.2401	-0.00068	-0.37396	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	FR2E2WF1 0.6900 34KV	100.2401	-0.00068	-0.37396	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	FR2W1WF1 0.6900 34KV	130.4464	-0.00068	-0.37396	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	FR2W2WF1 0.6900 34KV	129.0734	-0.00068	-0.37396	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	G10-055 4 1600 13KV	3	-0.01278	-0.36196	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	G11 057 3 0.6900 34KV	200	-0.00929	-0.36835	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.39072	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	GRADY CO SUB 345KV	199	-0.02074	-0.3539	6
WFEC	MORLND 138KV	190.6974	-0.37464	GRDA	GRDA1 161KV	354.8212	-0.00847	-0.38617	6
WFEC	MORLND 138KV	190.6974	-0.37464	GRDA	GRDA1 345KV	520	-0.00799	-0.36665	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	HORSESHOE LAKE 138KV	294	-0.02217	-0.35247	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	HORSESHOE LAKE 69KV	16	-0.02178	-0.35286	6
WFEC	MORLND 138KV	190.6974	-0.37464	WFEC	HUGO 138KV	440	-0.01279	-0.36185	6
WFEC	MORLND 138KV	190.6974	-0.37464	SWPA	JBOGENE 113.800 69KV	69.44469	-0.0011	-0.37354	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.39062	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.3906	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	KAYWIND12 0.7000 34KV	280	-0.00527	-0.36937	6
WFEC	MORLND 138KV	190.6974	-0.37464	SWPA	KENNETT 69KV	29	-0.00024	-0.3744	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	KNOXLEE 138KV	124.7686	-0.00816	-0.36648	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.38799	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.38825	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	LEBROCK 345KV	187.2212	-0.0082	-0.36644	6
WFEC	MORLND 138KV	190.6974	-0.37464	SWPA	MALDEN 69KV	5.978	0.00005	-0.37469	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	MCCLAIN 138KV	465.6	-0.02305	-0.35159	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	MCCLAIN4 138.00 138KV	20	-0.02305	-0.35159	6
WFEC	MORLND 138KV	190.6974	-0.37464	WFEC	MERS CO SUB 138KV	74.25	-0.02494	-0.3497	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	MNCWIND31 34.500 345KV	100	-0.02074	-0.3539	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	MUSKOGEE 345KV	1542.5	-0.01221	-0.36243	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	MUSTANG 138KV	221	-0.02403	-0.35061	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	NORTHEASTERN STATION 138KV	851	-0.0102	-0.36444	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	NORTHEASTERN STATION 345KV	460	-0.01272	-0.36192	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	OEC 345KV	1060.007	-0.01147	-0.36317	6
WFEC	MORLND 138KV	190.6974	-0.37464	OMP	OMPA-PONCA CITY 69KV	79.79225	-0.02724	-0.3474	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	ORIGIN21 0.6900 34KV	149	-0.01611	-0.35853	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	PIRKEY GENERATION 138KV	675	-0.00819	-0.36645	6
WFEC	MORLND 138KV	190.6974	-0.37464	SWPA	POPLAR BLUFF 161KV	25.64	0.0004	-0.37504	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	REDBUD 345KV	1214	-0.02107	-0.35357	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	RIVERSIDE STATION 138KV	908.0001	-0.0126	-0.36204	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.39084	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	SCRANTON 115KV	4.08	0.01522	-0.38986	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	SEMINOLE 138KV	160.9277	-0.01869	-0.35535	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	SEMINOLE 345KV	457	-0.01883	-0.35581	6
WFEC	MORLND 138KV	190.6974	-0.37464	SWPA	SIKESTON 161KV	235	0.00062	-0.37526	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	SMITH COGEN 138KV	107	-0.0238	-0.35084	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	SOONER 138KV	535	-0.02314	-0.3515	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	SOONER 345KV	537	-0.01695	-0.35769	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	SOUTH SENECA 115KV	8.3	0.01644	-0.39108	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	SOUTHWESTERN STATION 138KV	311	-0.02459	-0.35005	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	SPRING CREEK UNIT 3 AND 4 345KV	300	-0.0212	-0.35344	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.38909	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	TURK 138KV	650	-0.00988	-0.36476	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	WAVERGEN1 0.6900 34KV	101	0.00974	-0.38438	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	WELSH 345KV	1056	-0.0091	-0.36554	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	WILKES 138KV	300	-0.00854	-0.3661	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	WILKES 345KV	348	-0.00836	-0.36926	6
OMP	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.36471	6
OMP	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.36471	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	BLKWLWD1 34.500 69KV	59.8	-0.03246	-0.34218	7
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	BUFFCK1 34.500 230KV	99	-0.034	-0.34064	7
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	G12-033 0.6500 34KV	70	-0.06594	-0.3087	7
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	KRYRDGW1-1 34.500 138KV	150	-0.04642	-0.32822	7
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	WTH WIND 34.500 34KV	147	-0.05169	-0.32295	7
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	DEWEY CO SUB 4 138KV	130	-0.08119	-0.29345	8
WFEC	MORLND 138KV	190.6974	-0.37464	WFEC	HAMMON CO SUB 138KV	114	-0.08026	-0.29438	8
OMP	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.28226	8
OMP	OMPA-LAVERNE 69KV	4	-0.24877	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.26669	8
WFEC	ANADARKO 138KV	284	-0.02514	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.24131	9
WFEC	ANADARKO 69KV	70	-0.02636	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.24253	9
GRDA	BOOMER 69KV	24	-0.02367	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.23984	9
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.23834	9
OKGE	MCCLAIN 138KV	54.40001	-0.02305	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.23922	9
OKGE	MCCLAIN4 138.00 138KV	8	-0.02305	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.23922	9
OKGE	MUSTANG 138KV	149.5	-0.02403	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.2402	9
OKGE	MUSTANG 69KV	106	-0.02549	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.24166	9
OMP	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	OKGE	OU SPIRIT 138KV	102	0.17315	-0.23924	9
OMP	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.23924	9
OMP	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	AES 161KV	320	-0.00817	-0.2406	9
OMP	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	ARSENAL HILL 138KV	509	-0.00754	-0.24123	9
OMP	OMPA-LAVERNE 69KV	4	-0.24877	WERE	CANEYWF1 0.6900 34KV	199.8	0.00591	-0.25468	9
OMP	OMPA-LAVERNE 69KV	4	-0.24877	SWPA	CARTHAGE 69KV	20	-0.00196	-0.24681	9
OMP	OMPA-LAVERNE 69KV	4	-0.24877	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.25864	9
OMP	OMPA-LAVERNE 69KV	4	-0.24877	WERE	CITY OF BURLINGTON 69KV	7.3	0.00738	-0.25615	9
OMP	OMPA-LAVERNE 69KV	4	-0.24877	WERE	CITY OF MULVANE 69KV	10.89689	0.01244	-0.26121	9
OMP	OMPA-LAVERNE 69KV	4	-0.24877	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01547	-0.26424	9
OMP	OMPA-LAVERNE 69KV	4	-0.24877	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.25851	9
OMP	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	EASTMAN 138KV	350.4174	-0.00821	-0.24056	9
OMP	OMPA-LAVERNE 69KV	4	-0.24877	WERE	ELK RIVER 345KV	150	0.00654	-0.25531	9
OMP	OMPA-LAVERNE 69KV	4	-0.24877	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.26467	9
OMP	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	FITZHUGH 161KV	46.9969	-0.0073	-0.24147	9
OMP	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	FLINT CREEK 161KV	528	-0.0071	-0.24169	9
OMP	OMPA-LAVERNE 69KV	4	-0.24877	WERE	FR2E1WF1 0.6900 34KV	100.2401	-0.00068	-0.24809	9
OMP	OMPA-LAVERNE 69KV	4	-0.24877	WERE	FR2E2WF1 0.6900 34KV	100.2401	-0.00068	-0.24809	9

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

WFEC	ANADARKO 69KV	70	-0.02636	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19951	11
WFEC	ANADARKO 69KV	70	-0.02636	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19951	11
GRDA	BOOMER 69KV	24	-0.02367	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19682	11
GRDA	BOOMER 69KV	24	-0.02367	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19682	11
WERE	BROWN COUNTY 115KV	5.5	0.01587	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.2003	11
WERE	CCSHAR1 12.470 69KV	10	0.00802	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20815	11
WERE	CCSHAR1 12.470 69KV	10	0.00802	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20815	11
WERE	CHANUTE 69KV	37.8	0.00156	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.21461	11
WERE	CITY OF AUGUSTA 69KV	10.89	0.00987	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.2063	11
WERE	CITY OF BURLINGTON 69KV	5.2	0.00738	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20879	11
WERE	CITY OF ERIE 69KV	20	0.00156	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.21461	11
WERE	CITY OF IOLA 69KV	27.7415	0.00268	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.21349	11
WERE	CITY OF MULVANE 69KV	4.893109	0.01244	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20373	11
WERE	CITY OF WELLINGTON 69KV	4	0.00211	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.21406	11
WERE	CLAYGEN1 13.200 115KV	29.67	0.0186	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.19757	11
WERE	COFFEY CO SUB 34KV	200	0.00974	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20643	11
WERE	EMPORIA ENERGY CENTER 345KV	450	0.0159	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20027	11
WERE	EVANS ENERGY CENTER 138KV	220	0.01792	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.19825	11
WERE	GILL ENERGY CENTER 138KV	34.18262	0.01608	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20009	11
WERE	JEFFREY ENERGY CENTER 230KV	55	0.01598	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20019	11
WERE	JEFFREY ENERGY CENTER 345KV	110	0.01596	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20021	11
WERE	LAWRENCE ENERGY CENTER 115KV	11.00001	0.01335	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20282	11
WERE	LAWRENCE ENERGY CENTER 230KV	15	0.01361	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20256	11
WERE	MARSHGEN1 0.6900 34KV	73.8	0.01742	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.19875	11
WERE	MUSCOTA2 69.000 69KV	5.55	0.0134	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20277	11
OKGE	MUSTANG 138KV	149.5	-0.02403	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19718	11
OKGE	MUSTANG 138KV	149.5	-0.02403	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19718	11
OKGE	MUSTANG 69KV	106	-0.02549	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19864	11
OKGE	MUSTANG 69KV	106	-0.02549	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19864	11
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	BUFFCK1 34.500 230KV	99	-0.034	-0.21477	11
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	RKYRDGW1-1 34.500 138KV	150	-0.04642	-0.20235	11
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	WTH WIND 34.500 34KV	147	-0.05169	-0.19708	11
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	OKGE	OU SPIRIT 138KV	102	0.17315	-0.20039	11
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.20039	11
OKGE	SMITH COGEN 138KV	16	-0.0238	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19695	11
OKGE	SMITH COGEN 138KV	16	-0.0238	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19695	11
WERE	SOUTH SENECA 115KV	8.4	0.01644	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.19973	11
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19774	11
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19774	11
WERE	TECUMSEH ENERGY CENTER 115KV	7	0.01445	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20172	11
AEPW	ARSENAL HILL 69KV	110	-0.00754	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18069	12
AEPW	ARSENAL HILL 69KV	110	-0.00754	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18069	12
WERE	BPU - CITY OF MCPHERSON 115KV	238	0.02402	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.19215	11
AEPW	COGENTRIX 345KV	381.9101	-0.01264	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18579	12
AEPW	COGENTRIX 345KV	381.9101	-0.01264	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18579	12
AEPW	EASTMAN 138KV	134.5926	-0.00821	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18136	12
AEPW	EASTMAN 138KV	134.5926	-0.00821	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18136	12
AEPW	ELKINS GENERATOR 69KV	60	-0.00774	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18089	12
AEPW	ELKINS GENERATOR 69KV	60	-0.00774	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18089	12
AEPW	FULTON 115KV	153	-0.00882	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18197	12
AEPW	FULTON 115KV	153	-0.00882	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18197	12
WERE	G11_057_3 0.6900 34KV	151.4	-0.00929	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18244	12
WERE	G11_057_3 0.6900 34KV	151.4	-0.00929	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18244	12
OMPA	G12-041 18.000 345KV	121.5	-0.00896	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18211	12
OMPA	G12-041 18.000 345KV	121.5	-0.00896	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18211	12
OKGE	G13-029 0.6900 34KV	300	-0.01691	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19006	12
OKGE	G13-029 0.6900 34KV	300	-0.01691	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19006	12
GRDA	GRDA1 161KV	135.1788	-0.00847	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18162	12
GRDA	GRDA1 161KV	135.1788	-0.00847	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18162	12
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19532	12
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19532	12
WERE	HUTCHINSON ENERGY CENTER 115KV	344	0.02408	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.19209	12
WERE	HUTCHINSON ENERGY CENTER 69KV	56	0.02414	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.19203	12
AEPW	KNOWLEE 138KV	344.2314	-0.00816	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18131	12
AEPW	KNOWLEE 138KV	344.2314	-0.00816	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18131	12
AEPW	LEBROCK 345KV	322.7788	-0.0082	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18135	12
AEPW	LEBROCK 345KV	322.7788	-0.0082	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18135	12
AEPW	LIEBERMAN 138KV	242	-0.00767	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18082	12
AEPW	LIEBERMAN 138KV	242	-0.00767	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18082	12
AEPW	LONESTAR POWER PLANT 69KV	50	-0.00864	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18179	12
AEPW	LONESTAR POWER PLANT 69KV	50	-0.00864	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18179	12
OKGE	MCCCLAIN 138KV	54.40001	-0.02305	OKGE	OU SPIRIT 138KV	102	0.17315	-0.1962	12
OKGE	MCCCLAIN 138KV	54.40001	-0.02305	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.1962	12
OKGE	MCCCLAIN4 138.00 138KV	8	-0.02305	OKGE	OU SPIRIT 138KV	102	0.17315	-0.1962	12
OKGE	MCCCLAIN4 138.00 138KV	8	-0.02305	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.1962	12
OKGE	MUSKOGEE 345KV	37.5	-0.01221	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18536	12
OKGE	MUSKOGEE 345KV	37.5	-0.01221	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18536	12
AEPW	NORTH MARSHALL 69KV	5	-0.00811	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18126	12
AEPW	NORTH MARSHALL 69KV	5	-0.00811	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18126	12
AEPW	NORTHEASTERN STATION 345KV	481	-0.01272	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18587	12
AEPW	NORTHEASTERN STATION 345KV	481	-0.01272	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18587	12
AEPW	OEC 345KV	149.9927	-0.01147	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18462	12
AEPW	OEC 345KV	149.9927	-0.01147	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18462	12
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.18203	12
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	OKGE	CRSRDWD21 34.500 345KV	216	0.11594	-0.18203	12
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	G12-033 0.6500 34KV	70	-0.06594	-0.18283	12
OMPA	OMPA-PAWHUSKA NORTHEAST 138KV	6.7	-0.01486	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18801	12
OMPA	OMPA-PAWHUSKA NORTHEAST 138KV	6.7	-0.01486	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18801	12
OKGE	REDBUD 345KV	133	-0.02107	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19422	12
OKGE	REDBUD 345KV	133	-0.02107	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19422	12
AEPW	RIVERSIDE STATION 138KV	139	-0.0126	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18575	12
AEPW	RIVERSIDE STATION 138KV	139	-0.0126	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18575	12
GRDA	SALINA 161KV	129	-0.00831	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18146	12
GRDA	SALINA 161KV	129	-0.00831	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18146	12
WERE	SALINA MAIN 115KV	7.18	0.0218	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.19437	12
OKGE	SEMINOLE 138KV	344.0723	-0.01869	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19184	12
OKGE	SEMINOLE 138KV	344.0723	-0.01869	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19184	12
OKGE	SEMINOLE 345KV	572.6	-0.01883	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19198	12
OKGE	SEMINOLE 345KV	572.6	-0.01883	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19198	12
OKGE	SOONER 138KV	5	-0.02314	OKGE	OU SPIRIT 138KV	10			

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

AEPW	TURK 138KV	34	-0.00988	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18303	12
AEPW	TURK 138KV	34	-0.00988	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18303	12
AEPW	WELEETKA 138KV	158	-0.01486	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18801	12
AEPW	WELEETKA 138KV	158	-0.01486	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18801	12
AEPW	WELSH 345KV	528	-0.0091	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18225	12
AEPW	WELSH 345KV	528	-0.0091	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18225	12
AEPW	WILKES 138KV	178	-0.00854	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18169	12
AEPW	WILKES 138KV	178	-0.00854	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18169	12
AEPW	WILKES 345KV	4	-0.00838	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18153	12
AEPW	WILKES 345KV	4	-0.00838	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18153	12
WERE	CHANUTE 69KV	37.8	0.00156	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17159	13
WERE	CHANUTE 69KV	37.8	0.00156	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17159	13
WERE	CITY OF ERIE 69KV	20	0.00156	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17159	13
WERE	CITY OF ERIE 69KV	20	0.00156	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17159	13
WERE	CITY OF IOLA 69KV	27.7415	0.00268	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17047	13
WERE	CITY OF IOLA 69KV	27.7415	0.00268	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17047	13
WERE	CITY OF WINFIELD 69KV	29.1318	-0.00409	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17724	13
WERE	CITY OF WINFIELD 69KV	29.1318	-0.00409	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17724	13
GRDA	COFFGEN6 1 12.470 69KV	53	-0.00551	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17866	13
GRDA	COFFGEN6 1 12.470 69KV	53	-0.00551	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17866	13
AEPW	FITZHIGH 161KV	118.3031	-0.0073	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18045	13
AEPW	FITZHIGH 161KV	118.3031	-0.0073	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18045	13
SWPA	JBOGENE1 13.800 69KV	201.3553	-0.0011	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17425	13
SWPA	JBOGENE1 13.800 69KV	201.3553	-0.0011	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17425	13
SWPA	KENNETT 69KV	5.299999	-0.00024	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17339	13
SWPA	KENNETT 69KV	5.299999	-0.00024	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17339	13
SWPA	MALDEN 69KV	8.222	0.00005	OKGE	OU SPIRIT 138KV	102	0.17315	-0.1731	13
SWPA	MALDEN 69KV	8.222	0.00005	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.1731	13
WERE	OXFORD 138KV	4.5	-0.0009	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17405	13
WERE	OXFORD 138KV	4.5	-0.0009	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17405	13
SWPA	PARAGOULD 161KV	31	-0.00072	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17387	13
SWPA	PARAGOULD 161KV	31	-0.00072	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17387	13
SWPA	PIGGOTT 69KV	7.5	-0.00014	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17329	13
SWPA	PIGGOTT 69KV	7.5	-0.00014	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17329	13
SWPA	POPLAR BLUFF 161KV	8.16	0.0004	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17275	13
SWPA	POPLAR BLUFF 161KV	8.16	0.0004	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17275	13
WERE	BROWN COUNTY 115KV	5.5	0.01587	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15728	14
WERE	BROWN COUNTY 115KV	5.5	0.01587	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15728	14
WERE	CCSSHART 12.470 69KV	10	0.00802	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16513	14
WERE	CCSSHART 12.470 69KV	10	0.00802	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16513	14
WERE	CCSSHAR1 12.470 69KV	10	0.00802	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16513	14
WERE	CCSSHAR1 12.470 69KV	10	0.00802	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16513	14
WERE	CITY OF AUGUSTA 69KV	10.89	0.00987	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16328	14
WERE	CITY OF AUGUSTA 69KV	10.89	0.00987	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16328	14
WERE	CITY OF BURLINGTON 69KV	5.2	0.00738	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16577	14
WERE	CITY OF BURLINGTON 69KV	5.2	0.00738	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16577	14
WERE	CITY OF MULVANE 69KV	4.893109	0.01244	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16071	14
WERE	CITY OF MULVANE 69KV	4.893109	0.01244	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16071	14
WERE	COFFEY CO SUB 34KV	200	0.00974	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16341	14
WERE	COFFEY CO SUB 34KV	200	0.00974	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16341	14
WERE	EMPORIA ENERGY CENTER 345KV	450	0.0159	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15725	14
WERE	EMPORIA ENERGY CENTER 345KV	450	0.0159	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15725	14
WERE	GILL ENERGY CENTER 138KV	34.18262	0.01608	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15707	14
WERE	GILL ENERGY CENTER 138KV	34.18262	0.01608	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15707	14
WERE	JEFFREY ENERGY CENTER 230KV	55	0.01598	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15717	14
WERE	JEFFREY ENERGY CENTER 230KV	55	0.01598	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15717	14
WERE	JEFFREY ENERGY CENTER 345KV	110	0.01596	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15719	14
WERE	JEFFREY ENERGY CENTER 345KV	110	0.01596	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15719	14
WERE	LAWRENCE ENERGY CENTER 115KV	11.00001	0.01335	OKGE	OU SPIRIT 138KV	102	0.17315	-0.1598	14
WERE	LAWRENCE ENERGY CENTER 115KV	11.00001	0.01335	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.1598	14
WERE	LAWRENCE ENERGY CENTER 230KV	15	0.01361	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15954	14
WERE	LAWRENCE ENERGY CENTER 230KV	15	0.01361	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15954	14
WERE	MUSCOTA2 69.000 69KV	5.55	0.0134	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15975	14
WERE	MUSCOTA2 69.000 69KV	5.55	0.0134	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15975	14
OWPA	OMPA-MANGUM 69KV	5.198	-0.04691	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.16285	16
OWPA	OMPA-MANGUM 69KV	5.198	-0.04691	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.16285	16
WERE	SOUTH SENECA 115KV	8.4	0.01644	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15671	14
WERE	SOUTH SENECA 115KV	8.4	0.01644	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15671	14
WERE	TECUMSEH ENERGY CENTER 115KV	7	0.01445	OKGE	OU SPIRIT 138KV	102	0.17315	-0.1587	14
WERE	TECUMSEH ENERGY CENTER 115KV	7	0.01445	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.1587	14
WERE	BPU - CITY OF MCPHERSON 115KV	238	0.02402	OKGE	OU SPIRIT 138KV	102	0.17315	-0.14913	15
WERE	BPU - CITY OF MCPHERSON 115KV	238	0.02402	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.14913	15
WERE	CLAYGEN1 13.200 115KV	29.67	0.0186	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15455	15
WERE	CLAYGEN1 13.200 115KV	29.67	0.0186	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15455	15
WERE	EVANS ENERGY CENTER 138KV	220	0.01792	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15523	15
WERE	EVANS ENERGY CENTER 138KV	220	0.01792	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15523	15
WERE	HUTCHINSON ENERGY CENTER 115KV	344	0.02408	OKGE	OU SPIRIT 138KV	102	0.17315	-0.14907	15
WERE	HUTCHINSON ENERGY CENTER 115KV	344	0.02408	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.14907	15
WERE	HUTCHINSON ENERGY CENTER 69KV	56	0.02414	OKGE	OU SPIRIT 138KV	102	0.17315	-0.14901	15
WERE	HUTCHINSON ENERGY CENTER 69KV	56	0.02414	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.14901	15
WERE	MARSHGEN1 0.6900 34KV	73.8	0.01742	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15573	15
WERE	MARSHGEN1 0.6900 34KV	73.8	0.01742	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15573	15
WERE	SALINA MAIN 115KV	7.18	0.0218	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15135	15
WERE	SALINA MAIN 115KV	7.18	0.0218	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15135	15
WFEC	ANADARKO 138KV	284	-0.02514	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.14108	16
WFEC	ANADARKO 138KV	284	-0.02514	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.14108	16
WFEC	ANADARKO 69KV	70	-0.02636	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.1423	16
WFEC	ANADARKO 69KV	70	-0.02636	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.1423	16
GRDA	BOOMER 69KV	24	-0.02367	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13961	16
GRDA	BOOMER 69KV	24	-0.02367	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13961	16
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13811	16
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13811	16
OKGE	MCCLAIN 138KV	54.40001	-0.02305	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13899	16
OKGE	MCCLAIN 138KV	54.40001	-0.02305	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13899	16
OKGE	MCCLAIN4 138.00 138KV	8	-0.02305	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13899	16
OKGE	MCCLAIN4 138.00 138KV	8	-0.02305	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13899	16
OKGE	MUSTANG 138KV	149.5	-0.02403	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13997	16
OKGE	MUSTANG 138KV	149.5	-0.02403	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13997	16
OKGE	MUSTANG 69KV	106	-0.02549	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.14143	16
OKGE	MUSTANG 69KV	106	-0.02549	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.14143	16
OWPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.14318	16
OWPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.14318	16
OKGE	REDBUD 345KV	133	-0.02107	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13701	16
OKGE	REDBUD 345KV	133	-0.02107	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13701	16
OKGE	SMITH COGEN 138KV	16	-0.0238	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13974	16
OKGE	SMITH COGEN 138KV	16	-0.0238	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13974	16
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.14053	16
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.14053	16

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

OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13714	16
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13714	16
OKGE	TINKER 5G 138KV	62	-0.02157	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13751	16
OKGE	TINKER 5G 138KV	62	-0.02157	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13751	16
OKGE	G13-029 0.6900 34KV	300	-0.01691	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13285	17
OKGE	G13-029 0.6900 34KV	300	-0.01691	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13285	17
OMPA	OMPA-PAWHUSKA NORTHEAST 138KV	6.7	-0.01486	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.1308	17
OMPA	OMPA-PAWHUSKA NORTHEAST 138KV	6.7	-0.01486	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.1308	17
OKGE	SEMINOLE 138KV	344.0723	-0.01869	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13463	17
OKGE	SEMINOLE 138KV	344.0723	-0.01869	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13463	17
OKGE	SEMINOLE 345KV	572.6	-0.01883	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13477	17
OKGE	SEMINOLE 345KV	572.6	-0.01883	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13477	17
AEPW	WELEETKA 138KV	158	-0.01486	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.1308	17
AEPW	WELEETKA 138KV	158	-0.01486	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.1308	17
AEPW	ARSENAL HILL 69KV	110	-0.00754	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12348	18
AEPW	ARSENAL HILL 69KV	110	-0.00754	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12348	18
AEPW	COGENTRIX 345KV	381.9101	-0.01284	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12658	18
AEPW	COGENTRIX 345KV	381.9101	-0.01284	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12658	18
AEPW	EASTMAN 138KV	134.5926	-0.00821	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12415	18
AEPW	EASTMAN 138KV	134.5926	-0.00821	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12415	18
AEPW	ELKINS GENERATOR 69KV	60	-0.00774	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12368	18
AEPW	ELKINS GENERATOR 69KV	60	-0.00774	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12368	18
AEPW	FITZHUGH 161KV	118.3031	-0.0073	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12324	18
AEPW	FITZHUGH 161KV	118.3031	-0.0073	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12324	18
AEPW	FULTON 115KV	153	-0.00882	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12476	18
AEPW	FULTON 115KV	153	-0.00882	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12476	18
WERE	G11_057_3 0.6900 34KV	151.4	-0.00929	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12523	18
WERE	G11_057_3 0.6900 34KV	151.4	-0.00929	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12523	18
OMPA	G12-041 18.000 345KV	121.5	-0.00896	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.1249	18
OMPA	G12-041 18.000 345KV	121.5	-0.00896	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.1249	18
GRDA	GRDA1 161KV	135.1788	-0.00847	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12441	18
GRDA	GRDA1 161KV	135.1788	-0.00847	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12441	18
AEPW	KNOXLEE 138KV	344.2314	-0.00816	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.1241	18
AEPW	KNOXLEE 138KV	344.2314	-0.00816	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.1241	18
AEPW	LEBROCK 345KV	322.7788	-0.0082	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12414	18
AEPW	LEBROCK 345KV	322.7788	-0.0082	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12414	18
AEPW	LIEBERMAN 138KV	242	-0.00767	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12361	18
AEPW	LIEBERMAN 138KV	242	-0.00767	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12361	18
AEPW	LONESTAR POWER PLANT 69KV	50	-0.00864	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12458	18
AEPW	LONESTAR POWER PLANT 69KV	50	-0.00864	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12458	18
OKGE	MUSKOGEE 345KV	37.5	-0.01221	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12815	18
OKGE	MUSKOGEE 345KV	37.5	-0.01221	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12815	18
AEPW	NORTHEASTERN STATION 345KV	481	-0.01272	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12866	18
AEPW	NORTHEASTERN STATION 345KV	481	-0.01272	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12866	18
AEPW	OEC 345KV	149.9927	-0.01147	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12741	18
AEPW	OEC 345KV	149.9927	-0.01147	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12741	18
AEPW	RIVERSIDE STATION 138KV	139	-0.0126	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12854	18
AEPW	RIVERSIDE STATION 138KV	139	-0.0126	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12854	18
GRDA	SALINA 161KV	129	-0.00831	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12425	18
GRDA	SALINA 161KV	129	-0.00831	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12425	18
AEPW	TONITOWNE 161KV	301	-0.00771	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12365	18
AEPW	TONITOWNE 161KV	301	-0.00771	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12365	18
AEPW	TULSA POWER STATION 138KV	307	-0.01243	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12837	18
AEPW	TULSA POWER STATION 138KV	307	-0.01243	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12837	18
AEPW	TURK 138KV	34	-0.00988	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12582	18
AEPW	TURK 138KV	34	-0.00988	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12582	18
AEPW	WELSH 345KV	528	-0.0091	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12504	18
AEPW	WELSH 345KV	528	-0.0091	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12504	18
AEPW	WILKES 138KV	178	-0.00854	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12448	18
AEPW	WILKES 138KV	178	-0.00854	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12448	18
WERE	CITY OF WINFIELD 69KV	29.1318	-0.00409	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12003	19
WERE	CITY OF WINFIELD 69KV	29.1318	-0.00409	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12003	19
GRDA	COFFGEN6 1 12.470 69KV	53	-0.00551	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12145	19
GRDA	COFFGEN6 1 12.470 69KV	53	-0.00551	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12145	19
SWPA	JBOGENE1 13.800 69KV	201.3553	-0.0011	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.11704	19
SWPA	JBOGENE1 13.800 69KV	201.3553	-0.0011	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.11704	19
SWPA	MALDEN 69KV	8.222	0.00005	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.11589	19
SWPA	MALDEN 69KV	8.222	0.00005	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.11589	19
SWPA	PARAGOULD 161KV	31	-0.00072	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.11666	19
SWPA	PARAGOULD 161KV	31	-0.00072	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.11666	19
SWPA	PIGGOTT 69KV	7.5	-0.00014	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.11608	19
SWPA	PIGGOTT 69KV	7.5	-0.00014	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.11608	19
WERE	CHANUTE 69KV	37.8	0.0156	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.11438	20
WERE	CHANUTE 69KV	37.8	0.0156	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.11438	20
WERE	CITY OF ERIE 69KV	20	0.0156	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.11438	20
WERE	CITY OF ERIE 69KV	20	0.0156	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.11438	20
WERE	CITY OF IOLA 69KV	27.7415	0.00288	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.11326	20
WERE	CITY OF IOLA 69KV	27.7415	0.00288	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.11326	20
SWPA	POPLAR BLUFF 161KV	8.16	0.0004	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.11554	20
SWPA	POPLAR BLUFF 161KV	8.16	0.0004	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.11554	20
WERE	CCSSHAR1 12.470 69KV	10	0.00802	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.10792	21
WERE	CCSSHAR1 12.470 69KV	10	0.00802	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.10792	21
WERE	CCSSHAR1 12.470 69KV	10	0.00802	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.10792	21
WERE	CCSSHAR1 12.470 69KV	10	0.00802	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.10792	21
WERE	CITY OF AUGUSTA 69KV	10.89	0.00987	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.10607	21
WERE	CITY OF AUGUSTA 69KV	10.89	0.00987	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.10607	21
WERE	COFFEY CO SUB 34KV	200	0.00974	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.1062	21
WERE	COFFEY CO SUB 34KV	200	0.00974	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.1062	21
WERE	LAWRENCE ENERGY CENTER 115KV	11.00001	0.01335	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.10259	22
WERE	LAWRENCE ENERGY CENTER 115KV	11.00001	0.01335	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.10259	22
WERE	LAWRENCE ENERGY CENTER 230KV	15	0.01361	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.10233	22
WERE	LAWRENCE ENERGY CENTER 230KV	15	0.01361	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.10233	22
WERE	CLAYGEN1 13.200 115KV	29.67	0.0186	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.09734	23
WERE	CLAYGEN1 13.200 115KV	29.67	0.0186	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.09734	23
WERE	EMPORIA ENERGY CENTER 345KV	450	0.0159	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.10004	23
WERE	EMPORIA ENERGY CENTER 345KV	450	0.0159	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.10004	23
WERE	EVANS ENERGY CENTER 138KV	220	0.01792	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.09802	23
WERE	EVANS ENERGY CENTER 138KV	220	0.01792	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.09802	23
WERE	GILL ENERGY CENTER 138KV	34.18262	0.0						

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

WERE	HUTCHINSON ENERGY CENTER 115KV	344	0.02408	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.09186	25
WERE	HUTCHINSON ENERGY CENTER 115KV	344	0.02408	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.09186	25
WERE	HUTCHINSON ENERGY CENTER 69KV	56	0.02414	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.0918	25
WERE	HUTCHINSON ENERGY CENTER 69KV	56	0.02414	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.0918	25
WFEC	MORLND 138KV	190.6974	-0.37464	WFEC	SLEEPING BEAR 138KV	80	-0.29608	-0.07856	29
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04516	50
WFEC	ANADARKO 69KV	70	-0.02636	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04428	51
WFEC	ANADARKO 138KV	284	-0.02514	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04306	52
OKGE	MUSTANG 69KV	106	-0.02549	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04341	52
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.04314	52
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04332	52
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04322	52
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.0432	52
WFEC	ANADARKO 69KV	70	-0.02636	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.04226	53
WFEC	ANADARKO 69KV	70	-0.02636	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04244	53
WFEC	ANADARKO 69KV	70	-0.02636	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04234	53
WFEC	ANADARKO 69KV	70	-0.02636	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.04232	53
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04251	53
GRDA	BOOMER 69KV	24	-0.02367	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04159	54
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04195	54
OKGE	MUSTANG 69KV	106	-0.02549	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04157	54
OKGE	MUSTANG 69KV	106	-0.02549	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04147	54
OKGE	MUSTANG 69KV	106	-0.02549	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.04145	54
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.04169	54
WFEC	ANADARKO 138KV	284	-0.02514	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.04104	55
WFEC	ANADARKO 138KV	284	-0.02514	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04122	55
WFEC	ANADARKO 138KV	284	-0.02514	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04112	55
WFEC	ANADARKO 138KV	284	-0.02514	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.0411	55
WFEC	ANADARKO 69KV	70	-0.02636	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.04081	55
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04097	55
OKGE	MUSTANG 69KV	106	-0.02549	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.04139	55
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.04085	55
WFEC	ANADARKO 69KV	70	-0.02636	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03997	56
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04009	56
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04011	56
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04001	56
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03999	56
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.04059	56
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.04049	56
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04067	56
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04057	56
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.04055	56
WFEC	ANADARKO 138KV	284	-0.02514	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03959	57
WFEC	ANADARKO 69KV	70	-0.02636	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03971	57
GRDA	BOOMER 69KV	24	-0.02367	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03957	57
GRDA	BOOMER 69KV	24	-0.02367	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03975	57
GRDA	BOOMER 69KV	24	-0.02367	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03965	57
GRDA	BOOMER 69KV	24	-0.02367	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03963	57
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03993	57
OKGE	MUSTANG 69KV	106	-0.02549	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03994	57
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03949	57
WFEC	ANADARKO 138KV	284	-0.02514	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03875	58
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03895	58
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03913	58
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03903	58
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03901	58
OKGE	MUSTANG 69KV	106	-0.02549	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03884	58
OKGE	MUSTANG 69KV	106	-0.02549	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.0391	58
OKGE	REDBUD 345KV	133	-0.02107	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03899	58
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03904	58
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03912	58
WFEC	ANADARKO 138KV	284	-0.02514	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03849	59
GRDA	BOOMER 69KV	24	-0.02367	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03812	59
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03807	59
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03825	59
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03815	59

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

OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03813	59
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03848	59
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.0382	59
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.0375	60
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03738	60
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03764	60
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03794	60
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03747	60
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03765	60
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03755	60
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03753	60
GRDA	BOOMER 69KV	24	-0.02367	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03702	61
GRDA	BOOMER 69KV	24	-0.02367	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03728	61
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03698	61
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	WAVERGEN1 0.6900 34KV	101	0.00974	-0.03698	61
OKGE	REDBUD 345KV	133	-0.02107	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03697	61
OKGE	REDBUD 345KV	133	-0.02107	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03719	61
OKGE	REDBUD 345KV	133	-0.02107	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03705	61
OKGE	REDBUD 345KV	133	-0.02107	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03703	61
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03675	61
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.0371	61
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03728	61
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03718	61
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03716	61
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03662	62
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.0364	62
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03666	62
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03661	62
WFEC	ANADARKO 69KV	70	-0.02636	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.0361	63
WFEC	ANADARKO 69KV	70	-0.02636	WERE	WAVERGEN1 0.6900 34KV	101	0.00974	-0.0361	63
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03578	63
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03565	63
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03602	63
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03552	64
OKGE	MUSTANG 69KV	106	-0.02549	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03523	64
OKGE	MUSTANG 69KV	106	-0.02549	WERE	WAVERGEN1 0.6900 34KV	101	0.00974	-0.03523	64
OKGE	REDBUD 345KV	133	-0.02107	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03552	64
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03518	64
WFEC	ANADARKO 138KV	284	-0.02514	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03488	65
WFEC	ANADARKO 138KV	284	-0.02514	WERE	WAVERGEN1 0.6900 34KV	101	0.00974	-0.03488	65
OKGE	G13-029 0.6900 34KV	300	-0.01691	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03483	65
OKGE	REDBUD 345KV	133	-0.02107	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03468	65
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03459	65
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03477	65
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03467	65
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03465	65
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03473	65
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03491	65
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03481	65
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03479	65
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03455	65
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03481	65
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03492	65
OKGE	REDBUD 345KV	133	-0.02107	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03442	66
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03433	66
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	WAVERGEN1 0.6900 34KV	101	0.00974	-0.03433	66
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03377	67
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	WAVERGEN1 0.6900 34KV	101	0.00974	-0.03377	67
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	ELK RIVER 345KV	150	0.00654	-0.03378	67
GRDA	BOOMER 69KV	24	-0.02367	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03341	68
GRDA	BOOMER 69KV	24	-0.02367	WERE	WAVERGEN1 0.6900 34KV	101	0.00974	-0.03341	68
OKGE	G13-029 0.6900 34KV	300	-0.01691	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03299	68
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	CANEYWF1 0.6900 34KV	199.8	0.00591	-0.03315	68
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03314	68
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03328	68
WFEC	ANADARKO 69KV	70	-0.02636	WERE	ELK RIVER 345KV	150	0.00654	-0.0329	69
OKGE	G13-029 0.6900 34KV	300	-0.01691	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03281	69
OKGE	G13-029 0.6900 34KV	300	-0.01691	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03289	69
OKGE	G13-029 0.6900 34KV	300	-0.01691	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03287	69
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03279	69
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	WAVERGEN1 0.6900 34KV	101	0.00974	-0.03279	69
AEPW	WELEETKA 138KV	158	-0.01486	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03278	69
WFEC	ANADARKO 69KV	70	-0.02636	WERE	CANEYWF1 0.6900 34KV	199.8	0.00591	-0.03227	70
OKGE	MUSTANG 69KV	106	-0.02549	WERE	ELK RIVER 345KV	150	0.00654	-0.03203	70

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

Source	Relief Facility	Source GSF	Sink GSF	Factor	Aggregate Redispatch Amount (MW)
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	LAWRENCE ENERGY CENTER 115KV
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	LAWRENCE ENERGY CENTER 230KV
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	LAWRENCE ENERGY CENTER 115KV
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	LAWRENCE ENERGY CENTER 230KV
WFEC	ANADARKO 138KV	284	-0.02514	WERE	ELK RIVER 345KV
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	COFFEY CO SUB 34KV
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	WAVERGEN1 0.6900 34KV
OKGE	G13-029 0.6900 34KV	300	-0.01691	WERE	TECUMSEH ENERGY CENTER 115KV
OKGE	MUSTANG 69KV	106	-0.02549	WERE	CANEYWF1 0.6900 34KV
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	COFFEY CO SUB 34KV
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	WAVERGEN1 0.6900 34KV
WFEC	ANADARKO 138KV	284	-0.02514	WERE	CANEYWF1 0.6900 34KV
OKGE	REDBUD 345KV	133	-0.02107	WERE	COFFEY CO SUB 34KV
OKGE	REDBUD 345KV	133	-0.02107	WERE	WAVERGEN1 0.6900 34KV
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	ELK RIVER 345KV
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	COFFEY CO SUB 34KV
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	WAVERGEN1 0.6900 34KV
AEPW	WELEETKA 138KV	158	-0.01486	WERE	EMPORIA ENERGY CENTER 345KV
AEPW	WELEETKA 138KV	158	-0.01486	WERE	GILL ENERGY CENTER 138KV
AEPW	WELEETKA 138KV	158	-0.01486	WERE	JEFFREY ENERGY CENTER 230KV
AEPW	WELEETKA 138KV	158	-0.01486	WERE	JEFFREY ENERGY CENTER 345KV
AEPW	COGENTRIX 345KV	381.9101	-0.01264	WERE	EVANS ENERGY CENTER 138KV
OKGE	G13-029 0.6900 34KV	300	-0.01691	WERE	LAWRENCE ENERGY CENTER 230KV
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	ELK RIVER 345KV
AEPW	NORTHEASTERN STATION 345KV	481	-0.01272	WERE	EVANS ENERGY CENTER 138KV
AEPW	RIVERSIDE STATION 138KV	139	-0.0126	WERE	EVANS ENERGY CENTER 138KV
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	CANEYWF1 0.6900 34KV
AEPW	TULSA POWER STATION 138KV	307	-0.01243	WERE	EVANS ENERGY CENTER 138KV
OKGE	G13-029 0.6900 34KV	300	-0.01691	WERE	LAWRENCE ENERGY CENTER 115KV
OKGE	MUSKOGEE 345KV	37.5	-0.01221	WERE	EVANS ENERGY CENTER 138KV

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

Upgrade: Multi - Woodward District EHV - Tatonga - Mathewson - Cimarron
 Limiting Facility: FPL SWITCH - WOODWARD 138KV CKT 1
 Direction: TO->FROM
 Line Outage: SPSCONT-04
 Flowgate: 2015AG1AFS41T13625516SP
 Date Redispatch Needed: Starting 2016 6/1 - 10/1 Until EOC of Upgrade

Season Flowgate Identified: 2016 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount
81651752	2.3	2.3

Source Control Area	Source	Maximum increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.59081	4
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	OU SPIRIT 138KV	102	0.17315	-0.54779	4
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.54779	4
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.49058	5
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	CRSRD2W1 34.500 345KV	216	0.11594	-0.49058	5
OMP	OMPALAVERNE 69KV	4	-0.24877	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.46494	5
OMP	OMPALAVERNE 69KV	4	-0.24877	OKGE	OU SPIRIT 138KV	102	0.17315	-0.42192	5
OMP	OMPALAVERNE 69KV	4	-0.24877	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.42192	5
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	6TH STREET 115KV	2.18	0.01333	-0.38797	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	AES 161KV	320	-0.00817	-0.36647	6
WFEC	MORLND 138KV	190.6974	-0.37464	WFEC	ANADARKO 138KV	363	-0.02514	-0.3495	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	ARSENAL HILL 138KV	509	-0.00754	-0.3671	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	CANDN12 34.500 345KV	298.2	-0.0222	-0.35244	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	CANEYWF1 0.6900 34KV	199.8	0.00591	-0.38055	6
WFEC	MORLND 138KV	190.6974	-0.37464	SWPA	CARTHAGE 69KV	20	-0.00196	-0.37268	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	CHSMW1 34.500 345KV	202	-0.02114	-0.3535	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.38451	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	CITY OF BURLINGTON 69KV	7.3	0.00738	-0.38202	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	CITY OF MULVANE 69KV	10.89689	0.01244	-0.38708	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01547	-0.39011	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.38438	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	COGENTRIX 345KV	512.0899	-0.01264	-0.362	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	COMANCHE 138KV	170	-0.0174	-0.35724	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	COMANCHE 69KV	71	-0.01897	-0.35567	6
WFEC	MORLND 138KV	190.6974	-0.37464	WFEC	COMMANCHE CO SUB 34KV	100	0.02494	-0.3497	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	EASTMAN 138KV	350.4174	-0.00821	-0.36643	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	ELK RIVER 345KV	150	0.00654	-0.38118	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.39054	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.39256	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	FITZHUGH 161KV	46.6969	-0.0073	-0.36734	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	FLINT CREEK 161KV	528	-0.0071	-0.36754	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	FR2E1WF1 0.6900 34KV	100.2401	-0.00068	-0.37396	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	FR2E2WF1 0.6900 34KV	100.2401	-0.00068	-0.37396	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	FR2W1WF1 0.6900 34KV	130.4464	-0.00068	-0.37396	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	FR2W2WF1 0.6900 34KV	129.0734	-0.00068	-0.37396	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	G10-055 4.1600 13KV	3	-0.01278	-0.36186	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	G11_057 3 0.6900 34KV	200	-0.00929	-0.36535	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.39072	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	GRADY CO SUB 345KV	199	-0.02074	-0.3539	6
WFEC	MORLND 138KV	190.6974	-0.37464	GRDA	GRDA1 161KV	354.8212	-0.00847	-0.36617	6
WFEC	MORLND 138KV	190.6974	-0.37464	GRDA	GRDA1 345KV	520	-0.00799	-0.36665	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	HORSESHOE LAKE 138KV	294	-0.02217	-0.35247	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	HORSESHOE LAKE 69KV	16	-0.02178	-0.35286	6
WFEC	MORLND 138KV	190.6974	-0.37464	WFEC	HUGO 138KV	440	-0.01279	-0.36185	6
WFEC	MORLND 138KV	190.6974	-0.37464	SWPA	JBOGENE1 13.800 69KV	69.44469	-0.0011	-0.37354	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.39062	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.3906	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	KAYWIND12 0.7000 34KV	280	-0.00527	-0.36937	6
WFEC	MORLND 138KV	190.6974	-0.37464	SWPA	KENNETT 69KV	29	-0.00024	-0.3744	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	KNOXLEE 138KV	124.7686	-0.00816	-0.36648	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.38799	6

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

WFEC	MORLND 138KV	190.6974	-0.37464	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.38825	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	LEBROCK 345KV	187.2212	-0.0082	-0.36644	6
WFEC	MORLND 138KV	190.6974	-0.37464	SWPA	MALDEN 69KV	5.978	0.00005	-0.37469	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	MCCLAIN 138KV	465.6	-0.02305	-0.35159	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	MCCLAIN4 138.00 138KV	20	-0.02305	-0.35159	6
WFEC	MORLND 138KV	190.6974	-0.37464	WFEC	MEERS CO SUB 138KV	74.25	-0.02494	-0.3497	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	MNCWIND31 34.500 345KV	100	-0.02074	-0.3539	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	MUSKOGEE 345KV	1542.5	-0.01221	-0.36243	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	MUSTANG 138KV	221	-0.02403	-0.35061	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	NORTHEASTERN STATION 138KV	851	-0.0102	-0.36444	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	NORTHEASTERN STATION 345KV	460	-0.01272	-0.36192	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	OEC 345KV	1060.007	-0.01147	-0.36317	6
WFEC	MORLND 138KV	190.6974	-0.37464	OMPA	OMPA-PONCA CITY 69KV	79.79225	-0.02724	-0.3474	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	ORIGIN21 0.6900 34KV	149	-0.01611	-0.35853	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	PIRKEY GENERATION 138KV	675	-0.00819	-0.36645	6
WFEC	MORLND 138KV	190.6974	-0.37464	SWPA	POPLAR BLUFF 161KV	25.64	0.0004	-0.37504	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	REDBUD 345KV	1214	-0.02107	-0.35357	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	RIVERSIDE STATION 138KV	908.0001	-0.0126	-0.36304	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.39084	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	SCRANTON 115KV	4.08	0.01522	-0.38986	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	SEMINOLE 138KV	160.9277	-0.01869	-0.35595	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	SEMINOLE 345KV	457	-0.01883	-0.35581	6
WFEC	MORLND 138KV	190.6974	-0.37464	SWPA	SIKESTON 161KV	235	0.00062	-0.37526	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	SMITH COGEN 138KV	107	-0.0238	-0.35084	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	SOONER 138KV	535	-0.02314	-0.3515	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	SOONER 345KV	537	-0.01695	-0.35769	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	SOUTH SENECA 115KV	8.3	0.01644	-0.39108	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	SOUTHWESTERN STATION 138KV	311	-0.02459	-0.35005	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	SPRING CREEK UNIT 3 AND 4 345KV	300	-0.0212	-0.35344	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.38909	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	TURK 138KV	650	-0.00988	-0.36476	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	WAVERGE1 0.6900 34KV	101	0.00974	-0.39438	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	WELSH 345KV	1056	-0.0091	-0.38554	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	WILKES 138KV	300	-0.00854	-0.3661	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	WILKES 345KV	348	-0.00838	-0.36626	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.36471	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	CRSRDWD21 34.500 345KV	216	0.11594	-0.36471	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	BLKWLWD1 34.500 69KV	59.8	-0.03246	-0.34218	7
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	BUFFCKT1 34.500 230KV	99	-0.034	-0.34064	7
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	G12433 0.6900 34KV	70	0.06594	-0.3087	7
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	RKYRDRW1-1 34.500 138KV	150	-0.04642	-0.32822	7
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	WTH WIND 34.500 34KV	147	-0.05169	-0.32295	7
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	DEWEY CO SUB 4 138KV	130	-0.08119	-0.29345	8
WFEC	MORLND 138KV	190.6974	-0.37464	WFEC	HAMMON CO SUB 138KV	114	-0.08026	-0.29438	8
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.28226	8
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.26669	8
WFEC	ANADARKO 138KV	284	-0.02514	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.24131	9
WFEC	ANADARKO 69KV	70	-0.02636	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.24253	9
GRDA	BOOMER 69KV	24	-0.02367	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.23984	9
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.23834	9
OKGE	MCCLAIN 138KV	54.40001	-0.02305	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.23922	9
OKGE	MCCLAIN4 138.00 138KV	8	-0.02305	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.23922	9
OKGE	MUSTANG 138KV	149.5	-0.02403	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.24002	9
OKGE	MUSTANG 69KV	106	-0.02549	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.24166	9
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	OKGE	OU SPIRIT 138KV	102	0.17315	-0.23924	9
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.23924	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	AES 161KV	320	-0.00817	-0.2406	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	ARSENAL HILL 138KV	509	-0.00754	-0.24123	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	CANEYWF1 0.6900 34KV	199.8	0.00591	-0.25468	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	SWPA	CARTHAGE 69KV	20	-0.00198	-0.24681	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.25664	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	CITY OF BURLINGTON 69KV	7.3	0.00738	-0.25615	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	CITY OF MULVANE 69KV	10.89689	0.01244	-0.26121	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01547	-0.26424	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.25851	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	EASTMAN 138KV	350.4174	-0.00821	-0.24056	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	ELK RIVER 345KV	150	0.00654	-0.25531	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.26467	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	FITZMUGH 161KV	46.6969	-0.00749	-0.24471	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	FLINT CREEK 161KV	528	-0.0071	-0.24167	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	FR2E1WF1 0.6900 34KV	100.2401	-0.00068	-0.24809	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	FR2E2WF1 0.6900 34KV	100.2401	-0.00068	-0.24809	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	FR2W1WF1 0.6900 34KV	130.4464	-0.00068	-0.24809	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	FR2W2WF1 0.6900 34KV	129.0734	-0.00068	-0.24809	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	G11_057_3 0.6900 34KV	200	-0.00929	-0.23948	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.26485	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	GRDA	GRDA1 161KV	354.8212	-0.00847	-0.2403	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	GRDA	GRDA1 345KV	820	-0.00799	-0.24078	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	SWPA	JBOGENE1 13.800 69KV	69.44469	-0.0011	-0.24767	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.26475	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.26473	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	KAYWIND12 0.7000 34KV	280	-0.00527	-0.2435	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	SWPA	KENNETT 69KV	29	-0.00024	-0.24853	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	KNOXLEE 138KV	124.7686	-0.00816	-0.24061	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.26212	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.26238	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	LEBROCK 345KV	187.2212	-0.0082	-0.24057	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	SWPA	MALDEN 69KV	5.978	0.00005	-0.24882	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	NORTHEASTERN STATION 138KV	851	-0.0102	-0.23857	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	PIRKEY GENERATION 138KV	675	-0.00819	-0.24058	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	SWPA	POPLAR BLUFF 161KV	25.64	0.0004	-0.24917	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.26497	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	SCRANTON 115KV	4.08	0.01522	-0.26399	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	SWPA	SIKESTON 161KV	235	0.00062	-0.24939	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	SOUTH SENECA 115KV	8.3	0.01644	-0.26521	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.26322	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	TURK 138KV	650	-0.00988	-0.23889	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	WAVERGE1 0.6900 34KV	101	0.00974	-0.25851	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	WELSH 345KV	1056	-0.0091	-0.23967	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	WILKES 138KV	300	-0.00854	-0.24023	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	WILKES 345KV	348	-0.00838	-0.24039	9
OMPA	OMPA-MANGUM 69KV	5							

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

AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.24076	9
OKGE	TINKER 5G 138KV	62	-0.02157	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.23774	10
AEPW	ARSENAL HILL 69KV	110	-0.00754	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22371	10
WERE	CITY OF WINFIELD 69KV	29.1318	-0.00409	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22026	10
GRDA	COFFEY#6 112 470 69KV	53	-0.00551	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22188	10
AEPW	COGENTRIX 345KV	381.9101	-0.01264	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22881	10
AEPW	EASTMAN 138KV	134.5926	-0.00821	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22438	10
AEPW	ELKINS GENERATOR 69KV	60	-0.00774	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22391	10
AEPW	FITZHUGH 161KV	118.3031	-0.00733	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22347	10
AEPW	FULTON 115KV	153	-0.00882	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22499	10
WERE	G11_057_3 0.6900 34KV	151.4	-0.00929	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22546	10
OMPA	G12-041 18.000 345KV	121.5	-0.00896	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22513	10
OKGE	G13-029 0.6900 34KV	300	-0.01691	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22308	10
GRDA	GRDA1 161KV	135.1788	-0.00847	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22464	10
SWPA	JBOGENE1 13.800 69KV	201.3553	-0.0011	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.21727	10
SWPA	KENNETT 69KV	5.299999	-0.00024	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.21641	10
AEPW	KNOXLEE 138KV	344.2314	-0.00816	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22433	10
AEPW	LEBROCK 345KV	322.7788	-0.0082	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22437	10
AEPW	LIEBERMAN 138KV	242	-0.00767	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22384	10
AEPW	LONESTAR POWER PLANT 69KV	50	-0.00864	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22481	10
SWPA	MALDEN 69KV	8.222	0.00005	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.21612	10
OKGE	MUSKOGEE 345KV	37.5	-0.01221	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22838	10
AEPW	NORTH MARSHALL 69KV	5	-0.00811	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22428	10
AEPW	NORTHEASTERN STATION 345KV	481	-0.01272	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22889	10
AEPW	OEC 345KV	149.9927	-0.01147	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22764	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WFEC	ANADARKO 138KV	363	-0.02514	-0.22363	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	BLKWLD1 34.500 69KV	59.8	-0.03246	-0.21631	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	CANDN12 34.500 345KV	298.2	-0.0222	-0.22657	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	CHSHMWV1 34.500 345KV	202	-0.02114	-0.22763	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	COGENTRIX 345KV	512.0899	-0.01264	-0.22613	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	COMANCHE 138KV	170	-0.0174	-0.23137	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	COMANCHE 69KV	71	-0.01897	-0.22398	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WFEC	COMMANCHE CO SUB 34KV	100	-0.02494	-0.22383	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	GRADY CO SUB 345KV	199	-0.02074	-0.22803	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	HORSESHOE LAKE 138KV	294	-0.02217	-0.2266	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	HORSESHOE LAKE 69KV	16	-0.02178	-0.22699	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WFEC	HUGO 138KV	440	-0.01279	-0.23598	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	MCCLAIN 138KV	465.6	-0.02305	-0.22572	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	MCCLAIN1 138 00 138KV	20	-0.02305	-0.22572	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WFEC	MEERS CO SUB 138KV	74.25	-0.02494	-0.22383	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	MNCWND31 34.500 345KV	100	-0.02074	-0.22803	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	MUSKOGEE 345KV	1542.5	-0.01221	-0.23656	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	MUSTANG 138KV	221	-0.02403	-0.22474	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	NORTHEASTERN STATION 345KV	460	-0.01272	-0.23605	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	OEC 345KV	1080.007	-0.01147	-0.2373	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OMPA	OMPA-PONCA CITY 69KV	79.79225	-0.02724	-0.22553	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	ORIGIN21 0.6900 34KV	149	-0.01611	-0.23266	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	REDBUD 345KV	1214	-0.02107	-0.2277	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	RIVERSIDE STATION 138KV	908.0001	-0.0126	-0.23617	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	SEMINOLE 138KV	160.9277	-0.01869	-0.23008	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	SEMINOLE 345KV	457	-0.01883	-0.22994	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	SMITH COGEN 138KV	107	-0.0238	-0.22497	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	SOONER 138KV	535	-0.02314	-0.22563	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	SOONER 345KV	537	-0.01969	-0.23182	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	SOUTHWESTERN STATION 138KV	311	-0.02459	-0.22418	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	SPRING CREEK UNIT 3 AND 4 345KV	300	-0.0212	-0.22757	10
OMPA	OMPA-MANGUM 69KV	5.198	-0.04691	OKGE	OU SPIRIT 138KV	102	0.17315	-0.22006	10
OMPA	OMPA-MANGUM 69KV	5.198	-0.04691	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.22006	10
OMPA	OMPA-PAWUSKA NORTHEAST 138KV	6.7	-0.01486	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.23103	10
WERE	OXFORD 138KV	4.5	-0.0009	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.21707	10
SWPA	PARAGOULD 161KV	31	-0.00072	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.21689	10
SWPA	PIGGOTT 69KV	7.5	-0.00014	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.21631	10
SWPA	POPLAR BLUFF 161KV	8.16	0.0004	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.21577	10
OKGE	REDBUD 345KV	133	-0.02107	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.23724	10
AEPW	RIVERSIDE STATION 138KV	139	-0.0126	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22877	10
GRDA	SALINA 161KV	129	-0.00831	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22448	10
OKGE	SEMINOLE 138KV	344.0723	-0.01869	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.23486	10
OKGE	SEMINOLE 345KV	572.6	-0.01863	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.235	10
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.23737	10
AEPW	TONTITOWN 161KV	301	-0.00771	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22388	10
AEPW	TULSA POWER STATION 138KV	307	-0.01243	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.2286	10
AEPW	TURK 138KV	34	-0.00988	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22605	10
AEPW	WELEETKA 138KV	158	-0.01486	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.23103	10
AEPW	WELSH 345KV	528	-0.0091	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22527	10
AEPW	WILKES 138KV	178	-0.00854	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22471	10
AEPW	WILKES 345KV	4	-0.00838	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22455	10
WFEC	ANADARKO 138KV	284	-0.02514	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19829	11
WFEC	ANADARKO 138KV	284	-0.02514	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19829	11
WFEC	ANADARKO 69KV	70	-0.02636	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19951	11
WFEC	ANADARKO 69KV	70	-0.02636	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19951	11
GRDA	BOOMER 69KV	24	-0.02367	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19682	11
GRDA	BOOMER 69KV	24	-0.02367	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19682	11
WERE	BROWN COUNTY 115KV	5.5	0.01587	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.2003	11
WERE	CCSHART 12 470 69KV	10	0.00802	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20815	11
WERE	CCSHART 12 470 69KV	10	0.00802	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20815	11
WERE	CHANUTE 69KV	37.8	0.00156	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.21461	11
WERE	CITY OF AUGUSTA 69KV	10.89	0.00987	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.2063	11
WERE	CITY OF BURLINGTON 69KV	5.2	0.00738	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20879	11
WERE	CITY OF ERIE 69KV	20	0.00156	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.21461	11
WERE	CITY OF IOLA 69KV	27.7415	0.00268	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.21349	11
WERE	CITY OF MULVANE 69KV	4.893109	0.01244	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20373	11
WERE	CITY OF WELLINGTON 69KV	4	0.00211	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.21406	11
WERE	CLAYGEN1 13.200 115KV	29.67	0.01186	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.19757	11
WERE	COFFEY CO SUB 34KV	200	0.00974	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20643	11
WERE	EMPORIA ENERGY CENTER 345KV	450	0.0159	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20027	11
WERE	EVANS ENERGY CENTER 138KV	220	0.01792	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.19825	11
WERE	GILL ENERGY CENTER 138KV	34.18262	0.01608	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20009	11
WERE	JEFFREY ENERGY CENTER 230KV	55	0.01598	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20019	11
WERE	JEFFREY ENERGY CENTER 345KV	110	0.01596	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20021	11
WERE	LAWRENCE ENERGY CENTER 115KV	11.00001	0.01335						

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

WERE	SOUTH SENECA 115KV	8.4	0.01644	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.19973	11
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19774	11
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19774	11
WERE	TECUMSEH ENERGY CENTER 115KV	7	0.01445	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20172	11
AEPW	ARSENAL HILL 69KV	110	-0.00754	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18069	12
AEPW	ARSENAL HILL 69KV	110	-0.00754	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18069	12
WERE	BPU - CITY OF MCPHERSON 115KV	238	0.02402	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.19215	12
AEPW	COGENTRIX 345KV	381.9101	-0.01264	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18579	12
AEPW	COGENTRIX 345KV	381.9101	-0.01264	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18579	12
AEPW	EASTMAN 138KV	134.5926	-0.00821	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18136	12
AEPW	EASTMAN 138KV	134.5926	-0.00821	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18136	12
AEPW	ELKINS GENERATOR 69KV	60	-0.00774	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18089	12
AEPW	ELKINS GENERATOR 69KV	60	-0.00774	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18089	12
AEPW	FULTON 115KV	153	-0.00882	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18197	12
AEPW	FULTON 115KV	153	-0.00882	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18197	12
WERE	G11_057_3 0.6900 34KV	151.4	-0.00929	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18244	12
WERE	G11_057_3 0.6900 34KV	151.4	-0.00929	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18244	12
OMPA	G12-041 18.000 345KV	121.5	-0.00896	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18211	12
OMPA	G12-041 18.000 345KV	121.5	-0.00896	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18211	12
OKGE	G13-029 0.6900 34KV	300	-0.01691	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19006	12
OKGE	G13-029 0.6900 34KV	300	-0.01691	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19006	12
GRDA	GRDA1 161KV	135.1788	-0.00847	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18162	12
GRDA	GRDA1 161KV	135.1788	-0.00847	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18162	12
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19532	12
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19532	12
WERE	HUTCHINSON ENERGY CENTER 115KV	344	0.02408	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.19209	12
WERE	HUTCHINSON ENERGY CENTER 69KV	56	0.02414	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.19203	12
AEPW	KNOXLEE 138KV	344.2314	-0.00816	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18131	12
AEPW	KNOXLEE 138KV	344.2314	-0.00816	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18131	12
AEPW	LEBROCK 345KV	322.7788	-0.0082	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18135	12
AEPW	LEBROCK 345KV	322.7788	-0.0082	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18135	12
AEPW	LIEBERMAN 138KV	242	-0.00767	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18082	12
AEPW	LIEBERMAN 138KV	242	-0.00767	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18082	12
AEPW	LONGSTAR POWER PLANT 69KV	50	-0.00864	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18179	12
AEPW	LONGSTAR POWER PLANT 69KV	50	-0.00864	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18179	12
OKGE	MCCLAIN 138KV	54.40001	-0.02305	OKGE	OU SPIRIT 138KV	102	0.17315	-0.1962	12
OKGE	MCCLAIN 138KV	54.40001	-0.02305	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.1962	12
OKGE	MCCLAIN4 138.00 138KV	8	-0.02305	OKGE	OU SPIRIT 138KV	102	0.17315	-0.1962	12
OKGE	MCCLAIN4 138.00 138KV	8	-0.02305	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.1962	12
OKGE	MUSKOGEE 345KV	37.5	-0.01221	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18536	12
OKGE	MUSKOGEE 345KV	37.5	-0.01221	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18536	12
AEPW	NORTH MARSHALL 69KV	5	-0.00811	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18126	12
AEPW	NORTH MARSHALL 69KV	5	-0.00811	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18126	12
AEPW	NORTHEASTERN STATION 345KV	481	-0.01272	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18587	12
AEPW	NORTHEASTERN STATION 345KV	481	-0.01272	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18587	12
AEPW	OEC 345KV	149.9927	-0.01147	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18462	12
AEPW	OEC 345KV	149.9927	-0.01147	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18462	12
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.18203	12
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.18203	12
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	G12-033 0.6500 34KV	70	-0.06594	-0.18283	12
OMPA	OMPA-PAWHUSKA NORTHEAST 138KV	6.7	-0.01486	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18801	12
OMPA	OMPA-PAWHUSKA NORTHEAST 138KV	6.7	-0.01486	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18801	12
OKGE	REDBUD 345KV	133	-0.02107	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19422	12
OKGE	REDBUD 345KV	133	-0.02107	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19422	12
AEPW	RIVERSIDE STATION 138KV	139	-0.0126	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18575	12
AEPW	RIVERSIDE STATION 138KV	139	-0.0126	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18575	12
GRDA	SALINA 161KV	129	-0.00831	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18146	12
GRDA	SALINA 161KV	129	-0.00831	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18146	12
WERE	SALINA MAIN 115KV	7.18	0.0218	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.19437	12
OKGE	SEMINOLE 138KV	344.0723	-0.01869	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19184	12
OKGE	SEMINOLE 138KV	344.0723	-0.01869	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19184	12
OKGE	SEMINOLE 345KV	572.6	-0.01883	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19198	12
OKGE	SEMINOLE 345KV	572.6	-0.01883	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19198	12
OKGE	SOONER 138KV	5	-0.02314	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19629	12
OKGE	SOONER 138KV	5	-0.02314	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19629	12
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19435	12
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19435	12
OKGE	TINKER 5G 138KV	62	-0.02157	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19472	12
OKGE	TINKER 5G 138KV	62	-0.02157	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19472	12
AEPW	TONTOWNE 161KV	301	-0.00771	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18086	12
AEPW	TONTOWNE 161KV	301	-0.00771	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18086	12
AEPW	TULSA POWER STATION 138KV	307	-0.01243	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18558	12
AEPW	TULSA POWER STATION 138KV	307	-0.01243	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18558	12
AEPW	TURK 138KV	34	-0.00988	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18303	12
AEPW	TURK 138KV	34	-0.00988	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18303	12
AEPW	WELEETKA 138KV	158	-0.01486	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18801	12
AEPW	WELEETKA 138KV	158	-0.01486	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18801	12
AEPW	WELSH 345KV	528	-0.0091	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18225	12
AEPW	WELSH 345KV	528	-0.0091	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18225	12
AEPW	WILKES 138KV	178	-0.00854	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18169	12
AEPW	WILKES 138KV	178	-0.00854	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18169	12
AEPW	WILKES 345KV	4	-0.00838	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18153	12
AEPW	WILKES 345KV	4	-0.00838	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18153	12
WERE	CHANUTE 69KV	37.8	0.00156	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17159	13
WERE	CHANUTE 69KV	37.8	0.00156	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17159	13
WERE	CITY OF ERIE 69KV	20	0.00156	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17159	13
WERE	CITY OF ERIE 69KV	20	0.00156	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17159	13
WERE	CITY OF IOLA 69KV	27.7415	0.00268	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17047	13
WERE	CITY OF IOLA 69KV	27.7415	0.00268	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17047	13
WERE	CITY OF WINFIELD 69KV	29.1318	-0.00409	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17724	13
WERE	CITY OF WINFIELD 69KV	29.1318	-0.00409	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17724	13
GRDA	COFFGEN6 1 12.470 69KV	53	-0.00551	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17866	13
GRDA	COFFGEN6 1 12.470 69KV	53	-0.00551	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17866	13
AEPW	FITZHUGH 161KV	118.3031	-0.00773	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18045	13
AEPW	FITZHUGH 161KV	118.3031	-0.00773	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18045	13
SWPA	JBOGENE1 13.800 69KV	201.3553	-0.0011	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17425	13
SWPA	JBOGENE1 13.800 69KV	201.3553	-0.0011	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17425	13
SWPA	KENNETT 69KV	5.299999	-0.00024	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17339	13
SWPA	KENNETT 69KV	5.299999	-0.00024	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17339	13
SWPA	MALDEN 69KV	8.222	0.00005	OKGE	OU SPIRIT 138KV	102	0.17315	-0.1731	13
SWPA	MALDEN 69KV	8.222	0.00005	OKGE	WOODWARD CO SUB 2				

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

WERE	CCSSHAR1 12.470 69KV	10	0.00802	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16513	14
WERE	CC6SHAR1 12.470 69KV	10	0.00802	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16513	14
WERE	CC6SHAR1 12.470 69KV	10	0.00802	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16513	14
WERE	CITY OF AUGUSTA 69KV	10.89	0.00987	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16328	14
WERE	CITY OF AUGUSTA 69KV	10.89	0.00987	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16328	14
WERE	CITY OF BURLINGTON 69KV	5.2	0.00738	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16577	14
WERE	CITY OF BURLINGTON 69KV	5.2	0.00738	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16577	14
WERE	CITY OF MULVANE 69KV	4.893109	0.01244	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16071	14
WERE	CITY OF MULVANE 69KV	4.893109	0.01244	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16071	14
WERE	COFFEY CO SUB 34KV	200	0.00974	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16341	14
WERE	COFFEY CO SUB 34KV	200	0.00974	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16341	14
WERE	EMPORIA ENERGY CENTER 345KV	450	0.0159	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15725	14
WERE	EMPORIA ENERGY CENTER 345KV	450	0.0159	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15725	14
WERE	GILL ENERGY CENTER 138KV	34.18262	0.01608	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15707	14
WERE	GILL ENERGY CENTER 138KV	34.18262	0.01608	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15707	14
WERE	JEFFREY ENERGY CENTER 230KV	55	0.01596	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15717	14
WERE	JEFFREY ENERGY CENTER 230KV	55	0.01596	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15717	14
WERE	JEFFREY ENERGY CENTER 345KV	110	0.01596	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15719	14
WERE	JEFFREY ENERGY CENTER 345KV	110	0.01596	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15719	14
WERE	LAWRENCE ENERGY CENTER 115KV	11.00001	0.01335	OKGE	OU SPIRIT 138KV	102	0.17315	-0.1598	14
WERE	LAWRENCE ENERGY CENTER 115KV	11.00001	0.01335	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.1598	14
WERE	LAWRENCE ENERGY CENTER 230KV	15	0.01361	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15954	14
WERE	LAWRENCE ENERGY CENTER 230KV	15	0.01361	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15954	14
WERE	MUSCOTA2 69.000 69KV	5.55	0.0134	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15975	14
WERE	MUSCOTA2 69.000 69KV	5.55	0.0134	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15975	14
WERE	OMPA OMPA-MANGUM 69KV	5.198	-0.04691	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.16285	14
WERE	OMPA OMPA-MANGUM 69KV	5.198	-0.04691	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.16285	14
WERE	SOUTH SENECA 115KV	8.4	0.01644	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15671	14
WERE	SOUTH SENECA 115KV	8.4	0.01644	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15671	14
WERE	TECUMSEH ENERGY CENTER 115KV	7	0.01445	OKGE	OU SPIRIT 138KV	102	0.17315	-0.1587	14
WERE	TECUMSEH ENERGY CENTER 115KV	7	0.01445	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.1587	14
WERE	BPU - CITY OF MCPHERSON 115KV	238	0.02402	OKGE	OU SPIRIT 138KV	102	0.17315	-0.14913	15
WERE	BPU - CITY OF MCPHERSON 115KV	238	0.02402	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.14913	15
WERE	CLAYGEN1 13.200 115KV	29.67	0.0186	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15455	15
WERE	CLAYGEN1 13.200 115KV	29.67	0.0186	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15455	15
WERE	EVANS ENERGY CENTER 138KV	220	0.01792	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15523	15
WERE	EVANS ENERGY CENTER 138KV	220	0.01792	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15523	15
WERE	HUTCHINSON ENERGY CENTER 115KV	344	0.02408	OKGE	OU SPIRIT 138KV	102	0.17315	-0.14907	15
WERE	HUTCHINSON ENERGY CENTER 115KV	344	0.02408	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.14907	15
WERE	HUTCHINSON ENERGY CENTER 69KV	56	0.02414	OKGE	OU SPIRIT 138KV	102	0.17315	-0.14901	15
WERE	HUTCHINSON ENERGY CENTER 69KV	56	0.02414	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.14901	15
WERE	MARSHGEN1 0.6900 34KV	73.8	0.01742	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15573	15
WERE	MARSHGEN1 0.6900 34KV	73.8	0.01742	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15573	15
WERE	SALINA MAIN 115KV	7.18	0.0218	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15135	15
WERE	SALINA MAIN 115KV	7.18	0.0218	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15135	15
WFEC	ANADARKO 138KV	284	-0.02514	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.14108	16
WFEC	ANADARKO 138KV	284	-0.02514	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.14108	16
WFEC	ANADARKO 69KV	70	-0.02636	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.1423	16
WFEC	ANADARKO 69KV	70	-0.02636	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.1423	16
GRDA	BOOMER 69KV	24	-0.02367	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13961	16
GRDA	BOOMER 69KV	24	-0.02367	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13961	16
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13811	16
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13811	16
OKGE	MCCLAIN 138KV	54.40001	-0.02305	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13899	16
OKGE	MCCLAIN 138KV	54.40001	-0.02305	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13899	16
OKGE	MCCLAIN4 138.00 138KV	8	-0.02305	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13899	16
OKGE	MCCLAIN4 138.00 138KV	8	-0.02305	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13899	16
OKGE	MUSTANG 138KV	149.5	-0.02403	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13997	16
OKGE	MUSTANG 138KV	149.5	-0.02403	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13997	16
OKGE	MUSTANG 69KV	106	-0.02549	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.14143	16
OKGE	MUSTANG 69KV	106	-0.02549	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.14143	16
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.14318	16
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.14318	16
OKGE	REDBUD 345KV	133	-0.02107	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13701	16
OKGE	REDBUD 345KV	133	-0.02107	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13701	16
OKGE	SMITH COGEN 138KV	16	-0.0238	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13974	16
OKGE	SMITH COGEN 138KV	16	-0.0238	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13974	16
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.14053	16
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.14053	16
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13714	16
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13714	16
OKGE	TINKER 5G 138KV	62	-0.02157	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13751	16
OKGE	TINKER 5G 138KV	62	-0.02157	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13751	16
OKGE	G13-029 0.6900 34KV	300	-0.01691	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13285	17
OKGE	G13-029 0.6900 34KV	300	-0.01691	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13285	17
OMPA	OMPA-PAWHUSKA NORTHEAST 138KV	6.7	-0.01486	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.1308	17
OMPA	OMPA-PAWHUSKA NORTHEAST 138KV	6.7	-0.01486	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.1308	17
OKGE	SEMINOLE 138KV	344.0723	-0.01869	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13463	17
OKGE	SEMINOLE 138KV	344.0723	-0.01869	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13463	17
OKGE	SEMINOLE 345KV	572.6	-0.01883	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13477	17
OKGE	SEMINOLE 345KV	572.6	-0.01883	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13477	17
AEPW	WELEETKA 138KV	158	-0.01486	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.1308	17
AEPW	WELEETKA 138KV	158	-0.01486	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.1308	17
AEPW	ARSENAL HILL 69KV	110	-0.00754	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12348	18
AEPW	ARSENAL HILL 69KV	110	-0.00754	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12348	18
AEPW	COGENTRIX 345KV	381.9101	-0.01264	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12858	18
AEPW	COGENTRIX 345KV	381.9101	-0.01264	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12858	18
AEPW	EASTMAN 138KV	134.5926	-0.00821	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12475	18
AEPW	EASTMAN 138KV	134.5926	-0.00821	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12475	18
AEPW	ELKINS GENERATOR 69KV	60	-0.00774	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12368	18
AEPW	ELKINS GENERATOR 69KV	60	-0.00774	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12368	18
AEPW	FITZHUGH 161KV	118.3031	-0.0073	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12324	18
AEPW	FITZHUGH 161KV	118.3031	-0.0073	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12324	18
AEPW	FULTON 115KV	153	-0.00862	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12476	18
AEPW	FULTON 115KV	153	-0.00862	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12476	18
WERE	G11 057 3 0.6900 34KV	151.4	-0.00929	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12523	18
WERE	G11 057 3 0.6900 34KV	151.4	-0.00929	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12523	18
OMPA	G12-041 18.000 345KV	121.5	-0.00896	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.1249	18
OMPA	G12-041 18.000 345KV	121.5	-0.00896	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.1249	18
GRDA	GRDA1 161KV	135.1788	-0.00847	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12441	18
GRDA	GRDA1 161KV	135.1788	-0.00847	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12441	18
AEPW	KNOXLEE 138KV	344.2314	-0.00816	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.1241	18
AEPW	KNOXLEE 138KV	344.2314	-0.00816	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.1241	18
AEPW	LEBROOK 345KV	322.7788	-0.0082	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12414	18

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

AEPW	LEBROCK 345KV	322.7788	-0.0082	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12414	18
AEPW	LIEBERMAN 138KV	242	-0.00767	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12361	18
AEPW	LIEBERMAN 138KV	242	-0.00767	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12361	18
AEPW	LONESTAR POWER PLANT 69KV	50	-0.00864	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12458	18
AEPW	LONESTAR POWER PLANT 69KV	50	-0.00864	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12458	18
OKGE	MUSKOGEE 345KV	37.5	-0.01221	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12875	18
OKGE	MUSKOGEE 345KV	37.5	-0.01221	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12875	18
AEPW	NORTHEASTERN STATION 345KV	481	-0.01272	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12866	18
AEPW	NORTHEASTERN STATION 345KV	481	-0.01272	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12866	18
AEPW	OEC 345KV	149.9927	-0.01147	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12741	18
AEPW	OEC 345KV	149.9927	-0.01147	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12741	18
AEPW	RIVERSIDE STATION 138KV	139	-0.0126	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12854	18
AEPW	RIVERSIDE STATION 138KV	139	-0.0126	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12854	18
GRDA	SALINA 161KV	129	-0.00831	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12425	18
GRDA	SALINA 161KV	129	-0.00831	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12425	18
AEPW	TONTITOWN 161KV	301	-0.00771	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12365	18
AEPW	TONTITOWN 161KV	301	-0.00771	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12365	18
AEPW	TULSA POWER STATION 138KV	307	-0.01243	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12837	18
AEPW	TULSA POWER STATION 138KV	307	-0.01243	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12837	18
AEPW	TURK 138KV	34	-0.00988	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12582	18
AEPW	TURK 138KV	34	-0.00988	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12582	18
AEPW	WELSH 345KV	528	-0.0091	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12504	18
AEPW	WELSH 345KV	528	-0.0091	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12504	18
AEPW	WILKES 138KV	178	-0.00854	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12448	18
AEPW	WILKES 138KV	178	-0.00854	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12448	18
WERE	CITY OF WINFIELD 69KV	29.1318	-0.00409	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12003	19
WERE	CITY OF WINFIELD 69KV	29.1318	-0.00409	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12003	19
GRDA	COFFGEN6 1 12 470 69KV	53	-0.00551	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12145	19
GRDA	COFFGEN6 1 12 470 69KV	53	-0.00551	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12145	19
SWPA	JBOGENE1 13.800 69KV	201.3553	-0.0011	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.11704	19
SWPA	JBOGENE1 13.800 69KV	201.3553	-0.0011	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.11704	19
SWPA	MALDEN 69KV	8.222	0.00005	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.11589	19
SWPA	MALDEN 69KV	8.222	0.00005	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.11589	19
SWPA	PARAGOULD 161KV	31	-0.00072	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.11666	19
SWPA	PARAGOULD 161KV	31	-0.00072	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.11666	19
SWPA	PIGGOTT 69KV	7.5	-0.00014	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.11608	19
SWPA	PIGGOTT 69KV	7.5	-0.00014	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.11608	19
WERE	CHANUTE 69KV	37.8	0.00156	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.11438	20
WERE	CHANUTE 69KV	37.8	0.00156	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.11438	20
WERE	CITY OF ERIE 69KV	20	0.00156	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.11438	20
WERE	CITY OF ERIE 69KV	20	0.00156	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.11438	20
WERE	CITY OF IOLA 69KV	27.7415	0.00268	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.11326	20
WERE	CITY OF IOLA 69KV	27.7415	0.00268	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.11326	20
SWPA	POPLAR BLUFF 161KV	8.16	0.0004	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.11554	20
SWPA	POPLAR BLUFF 161KV	8.16	0.0004	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.11554	20
WERE	CCSHAR1 12.470 69KV	10	0.00802	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.10792	21
WERE	CCSHAR1 12.470 69KV	10	0.00802	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.10792	21
WERE	CCSHAR1 12.470 69KV	10	0.00802	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.10792	21
WERE	CCSHAR1 12.470 69KV	10	0.00802	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.10792	21
WERE	CITY OF AUGUSTA 69KV	10.89	0.00987	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.10607	21
WERE	CITY OF AUGUSTA 69KV	10.89	0.00987	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.10607	21
WERE	COFFEY CO SUB 34KV	200	0.00974	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.1062	21
WERE	COFFEY CO SUB 34KV	200	0.00974	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.1062	21
WERE	LAWRENCE ENERGY CENTER 115KV	11.00001	0.01335	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.10259	22
WERE	LAWRENCE ENERGY CENTER 115KV	11.00001	0.01335	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.10259	22
WERE	LAWRENCE ENERGY CENTER 230KV	15	0.01361	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.10233	22
WERE	LAWRENCE ENERGY CENTER 230KV	15	0.01361	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.10233	22
WERE	CLAYGEN1 13.200 115KV	29.67	0.0186	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.09734	23
WERE	CLAYGEN1 13.200 115KV	29.67	0.0186	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.09734	23
WERE	EMPORIA ENERGY CENTER 345KV	450	0.0159	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.10004	23
WERE	EMPORIA ENERGY CENTER 345KV	450	0.0159	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.10004	23
WERE	EVANS ENERGY CENTER 138KV	220	0.01792	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.09802	23
WERE	EVANS ENERGY CENTER 138KV	220	0.01792	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.09802	23
WERE	GILL ENERGY CENTER 138KV	34.18262	0.01608	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.09986	23
WERE	GILL ENERGY CENTER 138KV	34.18262	0.01608	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.09986	23
WERE	JEFFREY ENERGY CENTER 230KV	55	0.01598	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.09996	23
WERE	JEFFREY ENERGY CENTER 230KV	55	0.01598	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.09996	23
WERE	JEFFREY ENERGY CENTER 345KV	110	0.01596	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.09998	23
WERE	JEFFREY ENERGY CENTER 345KV	110	0.01596	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.09998	23
WERE	MARSHGEN1 0.6900 34KV	73.8	0.01742	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.09852	23
WERE	MARSHGEN1 0.6900 34KV	73.8	0.01742	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.09852	23
WERE	SOUTH SENECA 115KV	8.4	0.01644	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.0995	23
WERE	SOUTH SENECA 115KV	8.4	0.01644	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.0995	23
WERE	BPU - CITY OF MCPHERSON 115KV	238	0.02402	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.09192	25
WERE	BPU - CITY OF MCPHERSON 115KV	238	0.02402	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.09192	25
WERE	HUTCHINSON ENERGY CENTER 115KV	344	0.02408	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.09186	25
WERE	HUTCHINSON ENERGY CENTER 115KV	344	0.02408	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.09186	25
WERE	HUTCHINSON ENERGY CENTER 69KV	56	0.02414	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.0918	25
WERE	HUTCHINSON ENERGY CENTER 69KV	56	0.02414	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.0918	25
WFEC	MORLND 138KV	190.6974	-0.37464	WFEC	SLEEPING BEAR 138KV	80	-0.29608	-0.07856	29
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04516	50
WFEC	ANADARKO 69KV	70	-0.02636	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04428	51
WFEC	ANADARKO 138KV	284	-0.02514	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04306	52
OKGE	MUSTANG 69KV	106	-0.02549	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04341	52
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.04314	52
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04332	52
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04322	52
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.0432	52
WFEC	ANADARKO 69KV	70	-0.02636	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.04226	53
WFEC	ANADARKO 69KV	70	-0.02636	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04244	53
WFEC	ANADARKO 69KV	70	-0.02636	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04234	53
WFEC	ANADARKO 69KV	70	-0.02636	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.04232	53
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04251	53
GRDA	BOOMER 69KV	24	-0.02367	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04159	54
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04195	54
OKGE	MUSTANG 69KV	106	-0.02549	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04157	54

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

OKGE	MUSTANG 69KV	106	-0.02549	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04147	54
OKGE	MUSTANG 69KV	106	-0.02549	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.04145	54
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.04169	54
WFEC	ANADARKO 138KV	284	-0.02514	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.04104	55
WFEC	ANADARKO 138KV	284	-0.02514	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04122	55
WFEC	ANADARKO 138KV	284	-0.02514	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04112	55
WFEC	ANADARKO 138KV	284	-0.02514	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.0411	55
WFEC	ANADARKO 69KV	70	-0.02636	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.04081	55
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04097	55
OKGE	MUSTANG 69KV	106	-0.02549	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.04139	55
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.04085	55
WFEC	ANADARKO 69KV	70	-0.02636	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03997	56
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04009	56
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04011	56
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04001	56
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03999	56
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.04059	56
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.04049	56
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04067	56
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04057	56
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.04055	56
WFEC	ANADARKO 138KV	284	-0.02514	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03959	57
WFEC	ANADARKO 69KV	70	-0.02636	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03971	57
GRDA	BOOMER 69KV	24	-0.02367	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03957	57
GRDA	BOOMER 69KV	24	-0.02367	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03975	57
GRDA	BOOMER 69KV	24	-0.02367	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03965	57
GRDA	BOOMER 69KV	24	-0.02367	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03963	57
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03993	57
OKGE	MUSTANG 69KV	106	-0.02549	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03994	57
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03949	57
WFEC	ANADARKO 138KV	284	-0.02514	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03875	58
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03895	58
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03913	58
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03903	58
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03901	58
OKGE	MUSTANG 69KV	106	-0.02549	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03884	58
OKGE	MUSTANG 69KV	106	-0.02549	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.0391	58
OKGE	REDBUD 345KV	133	-0.02107	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03899	58
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03904	58
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03912	58
WFEC	ANADARKO 138KV	284	-0.02514	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03849	59
GRDA	BOOMER 69KV	24	-0.02367	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03812	59
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03807	59
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03825	59
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03815	59
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03813	59
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03848	59
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.0382	59
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.0375	60
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03738	60
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03764	60
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03794	60
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03747	60
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03765	60
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03755	60
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03753	60
GRDA	BOOMER 69KV	24	-0.02367	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03702	61
GRDA	BOOMER 69KV	24	-0.02367	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03728	61
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03698	61
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	WAVERGENT 0.6900 34KV	101	0.00974	-0.03698	61
OKGE	REDBUD 345KV	133	-0.02107	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03697	61
OKGE	REDBUD 345KV	133	-0.02107	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03715	61
OKGE	REDBUD 345KV	133	-0.02107	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03705	61
OKGE	REDBUD 345KV	133	-0.02107	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03703	61
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03675	61
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.0371	61

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

OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03728	61
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03718	61
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03716	61
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03662	62
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.0364	62
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03666	62
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03661	62
WFEC	ANADARKO 69KV	70	-0.02636	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.0361	63
WFEC	ANADARKO 69KV	70	-0.02636	WERE	WAVARGER1 0.6900 34KV	101	0.00974	-0.0361	63
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03578	63
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03565	63
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03602	63
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03552	64
OKGE	MUSTANG 69KV	106	-0.02549	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03523	64
OKGE	MUSTANG 69KV	106	-0.02549	WERE	WAVARGER1 0.6900 34KV	101	0.00974	-0.03523	64
OKGE	REDBUD 345KV	133	-0.02107	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03552	64
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03518	64
WFEC	ANADARKO 138KV	284	-0.02514	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03488	65
WFEC	ANADARKO 138KV	284	-0.02514	WERE	WAVARGER1 0.6900 34KV	101	0.00974	-0.03488	65
OKGE	G13-029 0.6900 34KV	300	-0.01691	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03483	65
OKGE	REDBUD 345KV	133	-0.02107	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03468	65
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03459	65
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03477	65
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03467	65
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03465	65
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03473	65
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03491	65
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03481	65
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03479	65
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03455	65
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03481	65
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03492	65
OKGE	REDBUD 345KV	133	-0.02107	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03442	66
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03433	66
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	WAVARGER1 0.6900 34KV	101	0.00974	-0.03433	66
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03377	67
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	WAVARGER1 0.6900 34KV	101	0.00974	-0.03377	67
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	ELK RIVER 345KV	150	0.00654	-0.03378	67
GRDA	BOOMER 69KV	24	-0.02367	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03341	68
GRDA	BOOMER 69KV	24	-0.02367	WERE	WAVARGER1 0.6900 34KV	101	0.00974	-0.03341	68
OKGE	G13-029 0.6900 34KV	300	-0.01691	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03299	68
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	CANEYWF1 0.6900 34KV	199.8	0.00591	-0.03315	68
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03314	68
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03328	68
WFEC	ANADARKO 69KV	70	-0.02636	WERE	ELK RIVER 345KV	150	0.00654	-0.0329	69
OKGE	G13-029 0.6900 34KV	300	-0.01691	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03281	69
OKGE	G13-029 0.6900 34KV	300	-0.01691	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03289	69
OKGE	G13-029 0.6900 34KV	300	-0.01691	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03287	69
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03279	69
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	WAVARGER1 0.6900 34KV	101	0.00974	-0.03279	69
AEPW	WELEETKA 138KV	158	-0.01486	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03278	69
WFEC	ANADARKO 69KV	70	-0.02636	WERE	CANEYWF1 0.6900 34KV	199.8	0.00591	-0.03227	70
OKGE	MUSTANG 69KV	106	-0.02549	WERE	ELK RIVER 345KV	150	0.00654	-0.03203	70
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03204	70
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.0323	70
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03218	70
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03244	70
WFEC	ANADARKO 138KV	284	-0.02514	WERE	ELK RIVER 345KV	150	0.00654	-0.03168	71
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03191	71
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	WAVARGER1 0.6900 34KV	101	0.00974	-0.03191	71
OKGE	G13-029 0.6900 34KV	300	-0.01691	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03136	72
OKGE	MUSTANG 69KV	106	-0.02549	WERE	CANEYWF1 0.6900 34KV	199.8	0.00591	-0.0314	72
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03131	72
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	WAVARGER1 0.6900 34KV	101	0.00974	-0.03131	72
WFEC	ANADARKO 138KV	284	-0.02514	WERE	CANEYWF1 0.6900 34KV	199.8	0.00591	-0.03105	73
OKGE	REDBUD 345KV	133	-0.02107	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03081	73
OKGE	REDBUD 345KV	133	-0.02107	WERE	WAVARGER1 0.6900 34KV	101	0.00974	-0.03081	73
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	ELK RIVER 345KV	150	0.00654	-0.03113	73
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03094	73
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	WAVARGER1 0.6900 34KV	101	0.00974	-0.03094	73
AEPW	WELEETKA 138KV	158	-0.01486	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03076	73
AEPW	WELEETKA 138KV	158	-0.01486	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03094	73
AEPW	WELEETKA 138KV	158	-0.01486	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03084	73
AEPW	WELEETKA 138KV	158	-0.01486	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03082	73
AEPW	COGENTRIX 345KV	381.9101	-0.01264	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03056	74
OKGE	G13-029 0.6900 34KV	300	-0.01691	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03052	74
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	ELK RIVER 345KV	150	0.00654	-0.03057	74
AEPW	NORTHEASTERN STATION 345KV	481	-0.01272	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03064	74

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

AEPW	RIVERSIDE STATION 138KV	139	-0.0126	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03052	74
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	CANEYWF1 0.6900 34KV	199.8	0.00591	-0.0305	74
AEPW	TULSA POWER STATION 138KV	307	-0.01243	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03035	74
OKGE	G13-029 0.6900 34KV	300	-0.01691	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03026	75
OKGE	MUSKOGEE 345KV	37.5	-0.01221	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03013	75

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
 Limiting Facility: FPL SWITCH - WOODWARD 138KV CKT 1
 Direction: TO->FROM
 Line Outage: NORTHWEST - TATONGA 7 345.00 345KV CKT 1
 Flowgate: 2015AG1AFS41T1095516SP
 Date Redispatch Needed: Starting 2016 6/1 - 10/1 Until EOC of Upgrade

Season Flowgate Identified: 2016 Summer Peak

Reservation	Relief Amount	Aggregate Relief Amount							
81651752	2.3	2.3							
Source Control Area	Source	Maximum Increment (MW)	GSF	Sink Control Area	Sink	Maximum Decrement (MW)	GSF	Factor	Aggregate Redispatch Amount (MW)
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.59081	4
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	OU SPIRIT 138KV	102	0.17315	-0.54779	4
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.54779	4
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.49058	5
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	CRSRD2W1 34.500 345KV	216	0.11594	-0.49058	5
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.46494	5
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	OU SPIRIT 138KV	102	0.17315	-0.42192	5
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.42192	5
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	6TH STREET 115KV	2.18	0.01333	-0.38797	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	AES 161KV	320	-0.00817	-0.36647	6
WFEC	MORLND 138KV	190.6974	-0.37464	WFEC	ANADARKO 138KV	363	-0.02514	-0.3495	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	ARSENAL HILL 138KV	509	-0.00754	-0.3671	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	CANDIN12 34.500 345KV	298.2	-0.0222	-0.35244	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	CANEYWF1 0.6900 34KV	199.8	0.00591	-0.38055	6
WFEC	MORLND 138KV	190.6974	-0.37464	SWPA	CARTHAGE 69KV	20	-0.00196	-0.37268	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	CHSHMVW1 34.500 345KV	202	-0.02114	-0.3535	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.38451	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	CITY OF BURLINGTON 69KV	7.3	0.00738	-0.38202	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	CITY OF MULVANE 69KV	10.89689	0.01244	-0.38708	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01547	-0.39011	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.38438	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	COGENTRIX 345KV	512.0899	-0.01264	-0.382	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	COMANCHE 138KV	170	-0.0174	-0.35724	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	COMANCHE 69KV	71	-0.01897	-0.35567	6
WFEC	MORLND 138KV	190.6974	-0.37464	WFEC	COMMANCHE CO SUB 34KV	100	-0.02494	-0.3497	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	EASTMAN 138KV	350.4174	-0.00821	-0.36643	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	ELK RIVER 345KV	150	0.00654	-0.38118	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.39054	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.39256	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	FITZHUGH 161KV	46.6969	-0.0073	-0.36734	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	FLINT CREEK 161KV	528	-0.0071	-0.36754	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	FR2E1WF1 0.6900 34KV	100.2401	-0.00068	-0.37396	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	FR2E2WF1 0.6900 34KV	100.2401	-0.00068	-0.37396	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	FR2W1WF1 0.6900 34KV	130.4464	-0.00068	-0.37396	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	FR2W2WF1 0.6900 34KV	129.0734	-0.00068	-0.37396	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	G10-055 4.1600 13KV	3	-0.01278	-0.36186	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	G11_057_3 0.6900 34KV	200	-0.00929	-0.36535	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.39072	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	GRADY CO SUB 345KV	199	-0.02074	-0.3539	6
WFEC	MORLND 138KV	190.6974	-0.37464	GRDA	GRDA1 161KV	354.8212	-0.00847	-0.36617	6
WFEC	MORLND 138KV	190.6974	-0.37464	GRDA	GRDA1 345KV	520	-0.00799	-0.36665	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	HORSESHOE LAKE 138KV	294	-0.02217	-0.35247	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	HORSESHOE LAKE 69KV	16	-0.02178	-0.35288	6
WFEC	MORLND 138KV	190.6974	-0.37464	WFEC	HULGO 138KV	440	-0.01279	-0.36185	6
WFEC	MORLND 138KV	190.6974	-0.37464	SWPA	JBOGENE1 13.800 69KV	69.44469	-0.0011	-0.37354	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.39062	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.3906	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	KAYWIND12 0.7000 34KV	280	-0.00527	-0.36937	6
WFEC	MORLND 138KV	190.6974	-0.37464	SWPA	KENNETT 69KV	29	-0.00024	-0.3744	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	KNOXLEE 138KV	124.7686	-0.00816	-0.36648	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.38799	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.38825	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	LEBROCK 345KV	187.2212	-0.00082	-0.36644	6
WFEC	MORLND 138KV	190.6974	-0.37464	SWPA	MALDEN 69KV	5.978	0.00005	-0.37469	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	MCCLAIN 138KV	465.6	-0.02305	-0.35159	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	MCCLAIN 138.00 138KV	20	-0.02305	-0.35159	6
WFEC	MORLND 138KV	190.6974	-0.37464	WFEC	MEERS CO SUB 138KV	74.25	-0.02494	-0.3497	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	MNCVND31 34.500 345KV	100	-0.02074	-0.3539	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	MUSKOGEE 345KV	1542.5	-0.01221	-0.36243	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	MUSTANG 138KV	221	-0.02403	-0.35061	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	NORTHEASTERN STATION 138KV	851	-0.0102	-0.36444	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	NORTHEASTERN STATION 345KV	460	-0.01272	-0.36192	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	QEC 345KV	1080.007	-0.01147	-0.36317	6
WFEC	MORLND 138KV	190.6974	-0.37464	OMPA	OMPA-PONCA CITY 69KV	79.79225	-0.02724	-0.3474	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	ORIGIN21 0.6900 34KV	149	-0.01611	-0.35853	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	PIRKEY GENERATION 138KV	675	-0.00819	-0.36645	6
WFEC	MORLND 138KV	190.6974	-0.37464	SWPA	POPLAR BLUFF 161KV	25.64	0.0004	-0.37504	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	REDBUD 345KV	1214	-0.02107	-0.35357	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	RIVERSIDE STATION 138KV	908.0001	-0.0126	-0.36204	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.39084	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	SCRANTON 115KV	4.08	0.01522	-0.39886	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	SEMINOLE 138KV	160.9277	-0.01869	-0.35505	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	SEMINOLE 345KV	457	-0.01883	-0.35581	6
WFEC	MORLND 138KV	190.6974	-0.37464	SWPA	SIKESTON 161KV	235	0.00062	-0.37526	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	SMITH COGEN 138KV	107	-0.0238	-0.35084	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	SOONER 138KV	535	-0.02314	-0.3515	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	SOONER 345KV	537	-0.01695	-0.35769	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	SOUTH SENECA 115KV	8.3	0.01644	-0.39108	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	SOUTHWESTERN STATION 138KV	311	-0.02459	-0.35005	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	SPRING CREEK UNIT 3 AND 4 345KV	300	-0.0212	-0.35344	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.38909	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	TURK 138KV	650	-0.00988	-0.36476	6
WFEC	MORLND 138KV	190.6974	-0.37464	WERE	WAVERGEN1 0.6900 34KV	101	0.00974	-0.38438	6

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

WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	WELSH 345KV	1056	-0.0091	-0.36554	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	WILKES 138KV	300	-0.00854	-0.3661	6
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	WILKES 345KV	348	-0.00838	-0.36626	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.36471	6
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	CRSDW21 34.503 345KV	216	0.11594	-0.36471	6
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	BLKWLD1 34.500 69KV	59.8	-0.03246	-0.34218	7
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	BUFFCK1 34.500 230KV	99	-0.034	-0.34064	7
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	G12-033 0.6500 34KV	70	-0.06594	-0.3087	7
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	RKYRDGW1-1 34.500 138KV	150	-0.04642	-0.32822	7
WFEC	MORLND 138KV	190.6974	-0.37464	AEPW	WTH WIND 34.500 34KV	147	-0.05169	-0.32295	7
WFEC	MORLND 138KV	190.6974	-0.37464	OKGE	DEWEY CO SUB 4 138KV	130	-0.08119	-0.29345	8
WFEC	MORLND 138KV	190.6974	-0.37464	WFEC	HAMMON CO SUB 138KV	114	-0.08026	-0.29438	8
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.28226	8
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.26669	8
WFEC	ANADARKO 138KV	284	-0.02514	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.24131	9
WFEC	ANADARKO 69KV	70	-0.02636	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.24253	9
GRDA	BOOMER 69KV	24	-0.02367	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.23984	9
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.23834	9
OKGE	MCCLAIN 138KV	54.40001	-0.02305	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.23922	9
OKGE	MCCLAIN 138.00 138KV	8	-0.02305	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.23922	9
OKGE	MUSTANG 138KV	149.5	-0.02403	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.2402	9
OKGE	MUSTANG 69KV	106	-0.02549	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.24166	9
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	OKGE	OU SPIRIT 138KV	102	0.17315	-0.23924	9
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.23924	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	AES 161KV	320	-0.00817	-0.2406	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	ARSENAL HILL 138KV	509	-0.00754	-0.24123	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	CANEYWF1 0.6900 34KV	199.8	0.00591	-0.25468	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	SWPA	CARTHAGE 69KV	20	-0.00196	-0.24681	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	CITY OF AUGUSTA 69KV	16.45	0.00987	-0.25864	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	CITY OF BURLINGTON 69KV	7.3	0.00738	-0.25615	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	CITY OF MULVANE 69KV	10.89689	0.01244	-0.26121	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	CITY OF OSAGE CITY 115KV	10.271	0.01547	-0.26424	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.25851	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	EASTMAN 138KV	350.4174	-0.00821	-0.24956	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	ELK RIVER 345KV	150	0.00654	-0.25531	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.26467	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	FITZHUGH 161KV	46.6969	-0.0073	-0.24147	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	FLINT CREEK 161KV	528	-0.0071	-0.24167	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	FR2E1WF1 0.6900 34KV	100.2401	-0.00068	-0.24809	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	FR2E2WF1 0.6900 34KV	100.2401	-0.00068	-0.24809	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	FR2W1WF1 0.6900 34KV	130.4464	-0.00068	-0.24809	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	FR2W2WF1 0.6900 34KV	129.0734	-0.00068	-0.24809	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	G11_057_3 0.6900 34KV	200	-0.00929	-0.23948	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.26485	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	GRDA	GRDA1 161KV	354.8212	-0.00847	-0.2403	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	GRDA	GRDA1 345KV	520	-0.00799	-0.24078	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	SWPA	JBOGENE1 13.800 69KV	69.44469	-0.0011	-0.24767	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.26475	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.26473	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	KAYWIND12 0.7000 34KV	280	-0.00527	-0.2435	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	SWPA	KENNETT 69KV	29	-0.00024	-0.24853	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	KNOXLEE 138KV	124.7686	-0.00816	-0.24061	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.26212	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.26238	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	LEBROCK 345KV	187.2212	-0.0082	-0.24057	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	SWPA	MALDEN 69KV	5.978	0.00005	-0.24882	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	NORTHEASTERN STATION 138KV	851	-0.0102	-0.23857	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	PIRKEY GENERATION 138KV	675	-0.00819	-0.24058	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	SWPA	POPLAR BLUFF 161KV	25.64	0.0004	-0.24917	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	S ALMA 3 115.00 115KV	11.6	0.0162	-0.26497	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	SBRANTON 115KV	4.08	0.01523	-0.26399	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	SWPA	SKESTON 161KV	235	0.00062	-0.24939	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	SOUTH SENECA 115KV	8.3	0.01644	-0.26521	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.26322	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	TURK 138KV	650	-0.00988	-0.23889	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WERE	WAVERGEN1 0.6900 34KV	101	0.00974	-0.25851	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	WELSH 345KV	1056	-0.0091	-0.23967	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	WILKES 138KV	300	-0.00854	-0.24023	9
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	WILKES 345KV	348	-0.00838	-0.24039	9
OMPA	OMPA-MANGUM 69KV	5.198	-0.04691	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.26308	9
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.24341	9
OKGE	SMITH COGEN 138KV	16	-0.0238	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.23997	9
OKGE	SOONER 138KV	5	-0.02314	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.23931	9
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.24076	9
OKGE	TINKER 5G 138KV	62	-0.02157	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.23774	9
AEPW	ARSENAL HILL 69KV	110	-0.00754	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22371	10
WERE	CITY OF WINFIELD 69KV	29.1318	-0.00409	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22026	10
GRDA	COFFGEN6 112.470 69KV	53	-0.00551	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22168	10
AEPW	COGENTRIX 345KV	381.9101	-0.01264	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22881	10
AEPW	EASTMAN 138KV	134.5926	-0.00821	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22438	10
AEPW	ELKINS GENERATOR 69KV	60	-0.00774	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22391	10
AEPW	FITZHUGH 161KV	118.3031	-0.0073	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22347	10
AEPW	FULTON 115KV	153	-0.00882	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22499	10
WERE	G11_057_3 0.6900 34KV	151.4	-0.00929	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22546	10
OMPA	G12-041 18.000 345KV	121.5	-0.00896	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22513	10
OKGE	G13-029 0.6900 34KV	300	-0.01891	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.23308	10
GRDA	GRDA1 161KV	135.1788	-0.00847	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22464	10
SWPA	JBOGENE1 13.800 69KV	201.3553	-0.0011	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.21727	10
SWPA	KENNETT 69KV	5.299999	-0.00024	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.21641	10
AEPW	KNOXLEE 138KV	344.2314	-0.00816	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22433	10
AEPW	LEBROCK 345KV	322.7788	-0.0082	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22437	10
AEPW	LIEBERMAN 138KV	242	-0.00767	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22384	10
AEPW	LONESTAR POWER PLANT 69KV	50	-0.00864	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22481	10
SWPA	MALDEN 69KV	8.222	0.00005	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.21612	10
OKGE	MUSKOGEE 345KV	37.5	-0.01221	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22838	10
AEPW	NORTH MARSHALL 69KV	5	-0.00811	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22428	10
AEPW	NORTHEASTERN STATION 345KV	481	-0.01272	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22889	10
AEPW	OEC 345KV	149.9927	-0.01147	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22764	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WFEC	ANADARKO 138KV	363	-0.02514	-0.22363	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	BLKWLD1 34.500 69KV	59.8	-0.03246	-0.21631	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	CANDN12 34.500 345KV	298.2	-0.0222	-0.22657	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	CHSHMW1 34.500 345KV	202	-0.02114	-0.22763	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	COGENTRIX 345KV	512.0899	-0.01264	-0.23613	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	COMANCHE 138KV	170	-0.0174	-0.23137	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	COMANCHE 69KV	71	-0.01897	-0.2298	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WFEC	COMMANCHE CO SUB 34KV	100	-0.02494	-0.22383	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	GRADY CO SUB 345KV	199	-0.02074	-0.22803	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	HORSESHOE LAKE 138KV	294	-0.02217	-0.2266	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	HORSESHOE LAKE 69KV	16	-0.02178	-0.22699	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WFEC	HUGO 138KV	440	-0.01279	-0.23598	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	MCCLAIN 138KV	465.6	-0.02305	-0.22572	10

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

OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	MCCLAIN4 138.00 138KV	20	-0.02305	-0.22572	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	WFEC	MEERS CO SUB 138KV	74.25	-0.02494	-0.22383	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	MNCWIND31 34.500 345KV	100	-0.02074	-0.22803	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	MUSKOGEE 345KV	1542.5	-0.01221	-0.23656	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	MUSTANG 138KV	221	-0.02403	-0.22474	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	NORTHEASTERN STATION 345KV	460	-0.01272	-0.23605	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	OC 345KV	1060.007	-0.01147	-0.2373	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OMPA	OMPA-PONCA CITY 69KV	79.79225	-0.02724	-0.22153	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	ORIGIN21 0.6900 34KV	149	-0.01611	-0.23266	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	REDBUD 345KV	1214	-0.02107	-0.2277	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	RIVERSIDE STATION 138KV	908.0001	-0.0126	-0.23617	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	SEMINOLE 138KV	160.9277	-0.01869	-0.23008	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	SEMINOLE 345KV	457	-0.01883	-0.22994	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	SMITH COGEN 138KV	107	-0.0238	-0.22497	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	SOONER 138KV	535	-0.02314	-0.22563	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	SOONER 345KV	537	-0.01695	-0.23182	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	SOUTHWESTERN STATION 138KV	311	-0.02459	-0.22418	10
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	SPRING CREEK UNIT 3 AND 4 345KV	300	-0.0212	-0.22757	10
OMPA	OMPA-MANGLUM 69KV	5.198	-0.04691	OKGE	OU SPIRIT 138KV	102	0.17315	-0.22006	10
OMPA	OMPA-MANGLUM 69KV	5.198	-0.04691	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.22006	10
OMPA	OMPA-PAWHUSKA NORTHEAST 138KV	6.7	-0.01486	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.23103	10
WERE	OXFORD 138KV	4.5	-0.0009	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.21707	10
SWPA	PARAGOULD 161KV	31	-0.00072	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.21689	10
SWPA	PIGGOTT 69KV	7.5	-0.00014	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.21631	10
SWPA	POPLAR BLUFF 161KV	8.16	0.0004	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.21577	10
OKGE	REDBUD 345KV	133	-0.02107	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.23724	10
AEPW	RIVERSIDE STATION 138KV	139	-0.0126	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22877	10
GRDA	SALINA 161KV	129	-0.00831	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22448	10
OKGE	SEMINOLE 138KV	344.0723	-0.01869	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.23486	10
OKGE	SEMINOLE 345KV	572.6	-0.01883	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.235	10
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.23737	10
AEPW	TONITOWN 161KV	301	-0.00771	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22388	10
AEPW	TULSA POWER STATION 138KV	307	-0.01243	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.2286	10
AEPW	TURK 138KV	34	-0.00988	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22605	10
AEPW	WELETKA 138KV	158	-0.01486	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.23103	10
AEPW	WELSH 345KV	528	-0.0091	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22527	10
AEPW	WILKES 138KV	178	-0.00854	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22471	10
AEPW	WILKES 345KV	4	-0.00838	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.22455	10
WFEC	ANADARKO 138KV	284	-0.02514	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19829	11
WFEC	ANADARKO 138KV	284	-0.02514	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19829	11
WFEC	ANADARKO 69KV	70	-0.02636	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19951	11
WFEC	ANADARKO 69KV	70	-0.02636	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19951	11
GRDA	BOOMER 69KV	24	-0.02367	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19682	11
GRDA	BOOMER 69KV	24	-0.02367	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19682	11
WERE	BROWN COUNTY 115KV	5.5	0.01587	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.2003	11
WERE	CCSSHAR1 12.470 69KV	10	0.00802	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20815	11
WERE	CCSSHAR1 12.470 69KV	10	0.00802	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20815	11
WERE	CHANUTE 69KV	37.8	0.00156	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.21461	11
WERE	CITY OF AUGUSTA 69KV	10.89	0.00987	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.2063	11
WERE	CITY OF BURLINGTON 69KV	9.2	0.00738	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20879	11
WERE	CITY OF ERIE 69KV	20	0.00156	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.21461	11
WERE	CITY OF IOLA 69KV	27.7415	0.00268	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.21349	11
WERE	CITY OF MULVANE 69KV	4.893109	0.01244	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20373	11
WERE	CITY OF WELLINGTON 69KV	4	0.00211	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.21406	11
WERE	CLAYGEN1 13.200 115KV	29.67	0.0186	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.19757	11
WERE	COFFEY CO SUB 34KV	200	0.00974	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20643	11
WERE	EMPORIA ENERGY CENTER 345KV	450	0.0159	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20027	11
WERE	EVANS ENERGY CENTER 138KV	220	0.01792	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.19825	11
WERE	GILL ENERGY CENTER 138KV	34.18262	0.01608	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20009	11
WERE	JEFFREY ENERGY CENTER 230KV	55	0.01596	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20019	11
WERE	JEFFREY ENERGY CENTER 345KV	110	0.01596	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20021	11
WERE	LAWRENCE ENERGY CENTER 115KV	11.00001	0.01335	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20282	11
WERE	LAWRENCE ENERGY CENTER 230KV	15	0.01361	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20256	11
WERE	MARSHGEN1 0.6900 34KV	73.8	0.01742	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.19875	11
WERE	MUSCOTA2 69.000 69KV	5.55	0.0134	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20277	11
OKGE	MUSTANG 138KV	149.5	-0.02403	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19718	11
OKGE	MUSTANG 138KV	149.5	-0.02403	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19718	11
OKGE	MUSTANG 69KV	106	-0.02549	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19864	11
OKGE	MUSTANG 69KV	106	-0.02549	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19864	11
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	BUFFCK1 34.500 230KV	99	-0.034	-0.21477	11
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	RKYRDSW1-1 34.500 138KV	150	-0.04642	-0.20235	11
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	AEPW	WTH WIND 34.500 34KV	147	-0.05169	-0.19738	11
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	OKGE	OU SPIRIT 138KV	102	0.17315	-0.20039	11
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.20039	11
OKGE	SMITH COGEN 138KV	16	-0.0238	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19695	11
OKGE	SMITH COGEN 138KV	16	-0.0238	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19695	11
WERE	SOUTH SENECA 115KV	8.4	0.01644	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.19973	11
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19774	11
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19774	11
WERE	TECUMSEH ENERGY CENTER 115KV	7	0.01445	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.20172	11
AEPW	ARSENAL HILL 69KV	110	-0.00754	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18069	12
AEPW	ARSENAL HILL 69KV	110	-0.00754	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18069	12
WERE	BPU - CITY OF MCPHERSON 115KV	238	0.02402	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.19215	12
AEPW	COGENTRIX 345KV	381.9101	-0.01264	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18579	12
AEPW	COGENTRIX 345KV	381.9101	-0.01264	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18579	12
AEPW	EASTMAN 138KV	134.5926	-0.00821	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18136	12
AEPW	EASTMAN 138KV	134.5926	-0.00821	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18136	12
AEPW	ELKINS GENERATOR 69KV	60	-0.00774	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18089	12
AEPW	ELKINS GENERATOR 69KV	60	-0.00774	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18089	12
AEPW	FULTON 115KV	153	-0.00882	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18197	12
AEPW	FULTON 115KV	153	-0.00882	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18197	12
WERE	G11_057_3 0.6900 34KV	151.4	-0.00929	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18244	12
WERE	G11_057_3 0.6900 34KV	151.4	-0.00929	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18244	12
OMPA	G12-041 18.000 345KV	121.5	-0.00896	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18211	12
OMPA	G12-041 18.000 345KV	121.5	-0.00896	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18211	12
OKGE	G13-029 0.6900 34KV	300	-0.01691	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19006	12
OKGE	G13-029 0.6900 34KV	300	-0.01691	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19006	12
GRDA	GRDA1 161KV	135.1788	-0.00847	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18162	12
GRDA	GRDA1 161KV	135.1788	-0.00847	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18162	12
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	OKGE	OU SPIRIT 138KV	102			

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

AEPW	LONESTAR POWER PLANT 69KV	50	-0.00864	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18179	12
OKGE	MCCLAIN 138KV	54.40001	-0.02305	OKGE	OU SPIRIT 138KV	102	0.17315	-0.1962	12
OKGE	MCCLAIN 138KV	54.40001	-0.02305	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.1962	12
OKGE	MCCLAIN4 138.00 138KV	8	-0.02305	OKGE	OU SPIRIT 138KV	102	0.17315	-0.1962	12
OKGE	MCCLAIN4 138.00 138KV	8	-0.02305	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.1962	12
OKGE	MUSKOGEE 345KV	37.5	-0.01221	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18536	12
OKGE	MUSKOGEE 345KV	37.5	-0.01221	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18536	12
AEPW	NORTH MARSHALL 69KV	5	-0.00811	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18126	12
AEPW	NORTH MARSHALL 69KV	5	-0.00811	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18126	12
AEPW	NORTHEASTERN STATION 345KV	481	-0.01272	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18587	12
AEPW	NORTHEASTERN STATION 345KV	481	-0.01272	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18587	12
AEPW	DEC 345KV	149.9927	-0.01147	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18462	12
AEPW	DEC 345KV	149.9927	-0.01147	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18462	12
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.18203	12
OMPA	OMPA-KINGFISHER BOWMAN 69KV	8.592	-0.06609	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.18203	12
OMPA	OMPA-LAVERNE 69KV	4	-0.24877	OKGE	G12-033 0.6500 34KV	70	-0.06594	-0.18283	12
OMPA	OMPA-PAWHUSKA NORTHEAST 138KV	6.7	-0.01486	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18801	12
OMPA	OMPA-PAWHUSKA NORTHEAST 138KV	6.7	-0.01486	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18801	12
OKGE	REDBUD 345KV	133	-0.02107	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19422	12
OKGE	REDBUD 345KV	133	-0.02107	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19422	12
AEPW	RIVERSIDE STATION 138KV	139	-0.0126	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18575	12
AEPW	RIVERSIDE STATION 138KV	139	-0.0126	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18575	12
GRDA	SALINA 161KV	129	-0.00831	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18146	12
GRDA	SALINA 161KV	129	-0.00831	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18146	12
WERE	SALINA MAIN 115KV	7.18	0.0218	OKGE	CENT 21 34.500 138KV	120	0.21617	-0.19437	12
OKGE	SEMINOLE 138KV	344.0723	-0.01869	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19184	12
OKGE	SEMINOLE 138KV	344.0723	-0.01869	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19184	12
OKGE	SEMINOLE 345KV	572.6	-0.01883	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19198	12
OKGE	SEMINOLE 345KV	572.6	-0.01883	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19198	12
OKGE	SOONER 138KV	5	-0.02314	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19629	12
OKGE	SOONER 138KV	5	-0.02314	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19629	12
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19435	12
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19435	12
OKGE	TINKER 5G 138KV	62	-0.02157	OKGE	OU SPIRIT 138KV	102	0.17315	-0.19472	12
OKGE	TINKER 5G 138KV	62	-0.02157	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.19472	12
AEPW	TONTITOWN 161KV	301	-0.00771	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18086	12
AEPW	TONTITOWN 161KV	301	-0.00771	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18086	12
AEPW	TULSA POWER STATION 138KV	307	-0.01243	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18558	12
AEPW	TULSA POWER STATION 138KV	307	-0.01243	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18558	12
AEPW	TURK 138KV	34	-0.00988	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18303	12
AEPW	TURK 138KV	34	-0.00988	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18303	12
AEPW	WELEETKA 138KV	158	-0.01486	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18801	12
AEPW	WELEETKA 138KV	158	-0.01486	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18801	12
AEPW	WELSH 345KV	528	-0.0091	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18225	12
AEPW	WELSH 345KV	528	-0.0091	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18225	12
AEPW	WILKES 138KV	178	-0.00854	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18169	12
AEPW	WILKES 138KV	178	-0.00854	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18169	12
AEPW	WILKES 345KV	4	-0.00838	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18153	12
AEPW	WILKES 345KV	4	-0.00838	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18153	12
WERE	CHANUTE 69KV	37.8	0.00156	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17159	13
WERE	CHANUTE 69KV	37.8	0.00156	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17159	13
WERE	CITY OF ERIE 69KV	20	0.00156	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17159	13
WERE	CITY OF ERIE 69KV	20	0.00156	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17159	13
WERE	CITY OF IOLA 69KV	27.7415	0.00268	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17047	13
WERE	CITY OF IOLA 69KV	27.7415	0.00268	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17047	13
WERE	CITY OF WINFIELD 69KV	29.1318	-0.00409	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17724	13
WERE	CITY OF WINFIELD 69KV	29.1318	-0.00409	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17724	13
GRDA	COFFGEN6 1 12 470 69KV	53	-0.00551	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17866	13
GRDA	COFFGEN6 1 12 470 69KV	53	-0.00551	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17866	13
AEPW	FITZHUGH 161KV	118.3031	-0.0073	OKGE	OU SPIRIT 138KV	102	0.17315	-0.18045	13
AEPW	FITZHUGH 161KV	118.3031	-0.0073	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.18045	13
SWPA	JBOGENE1 13.800 69KV	201.3553	-0.0011	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17425	13
SWPA	JBOGENE1 13.800 69KV	201.3553	-0.0011	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17425	13
SWPA	KENNETT 69KV	5.29999	-0.00024	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17339	13
SWPA	KENNETT 69KV	5.29999	-0.00024	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17339	13
SWPA	MALDEN 69KV	8.222	0.00005	OKGE	OU SPIRIT 138KV	102	0.17315	-0.1731	13
SWPA	MALDEN 69KV	8.222	0.00005	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.1731	13
WERE	OXFORD 138KV	4.5	-0.0009	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17405	13
WERE	OXFORD 138KV	4.5	-0.0009	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17405	13
SWPA	PARAGOULD 161KV	31	-0.00072	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17387	13
SWPA	PARAGOULD 161KV	31	-0.00072	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17387	13
SWPA	PIGGOTT 69KV	7.5	-0.00014	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17329	13
SWPA	PIGGOTT 69KV	7.5	-0.00014	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17329	13
SWPA	POPLAR BLUFF 161KV	8.16	0.0004	OKGE	OU SPIRIT 138KV	102	0.17315	-0.17275	13
SWPA	POPLAR BLUFF 161KV	8.16	0.0004	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.17275	13
WERE	BROWN COUNTY 115KV	5.5	0.01587	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15728	14
WERE	BROWN COUNTY 115KV	5.5	0.01587	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15728	14
WERE	CCSSHAR1 12.470 69KV	10	0.00802	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16513	14
WERE	CCSSHAR1 12.470 69KV	10	0.00802	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16513	14
WERE	CCSSHAR1 12.470 69KV	10	0.00802	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16513	14
WERE	CCSSHAR1 12.470 69KV	10	0.00802	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16513	14
WERE	CITY OF AUGUSTA 69KV	10.89	0.00987	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16328	14
WERE	CITY OF AUGUSTA 69KV	10.89	0.00987	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16328	14
WERE	CITY OF BURLINGTON 69KV	5.2	0.00738	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16577	14
WERE	CITY OF BURLINGTON 69KV	5.2	0.00738	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16577	14
WERE	CITY OF MULVANE 69KV	4.893109	0.01244	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16071	14
WERE	CITY OF MULVANE 69KV	4.893109	0.01244	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16071	14
WERE	COFFEY CO SUB 34KV	200	0.00974	OKGE	OU SPIRIT 138KV	102	0.17315	-0.16341	14
WERE	COFFEY CO SUB 34KV	200	0.00974	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.16341	14
WERE	EMPORIA ENERGY CENTER 345KV	450	0.0159	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15725	14
WERE	EMPORIA ENERGY CENTER 345KV	450	0.0159	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15725	14
WERE	GILL ENERGY CENTER 138KV	34.18262	0.01608	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15707	14
WERE	GILL ENERGY CENTER 138KV	34.18262	0.01608	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15707	14
WERE	JEFFREY ENERGY CENTER 230KV	55	0.01598	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15717	14
WERE	JEFFREY ENERGY CENTER 230KV	55	0.01598	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15717	14
WERE	JEFFREY ENERGY CENTER 345KV	110	0.01596	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15719	14
WERE	JEFFREY ENERGY CENTER 345KV	110	0.01596	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15719	14
WERE	LAWRENCE ENERGY CENTER 115KV	11.00001	0.01335	OKGE	OU SPIRIT 138KV	102	0.17315	-0.1598	14
WERE	LAWRENCE ENERGY CENTER 115KV	11.00001	0.01335	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.1598	14
WERE	LAWRENCE ENERGY CENTER 230KV	15	0.01361	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15954	14
WERE	LAWRENCE ENERGY CENTER 230KV	15	0.01361	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15954	14
WERE	MUSCOTA2 69.000 69KV								

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

WERE	TECUMSEH ENERGY CENTER 115KV	7	0.01445	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.1587	14
WERE	BPU - CITY OF MCPHERSON 115KV	238	0.02402	OKGE	OU SPIRIT 138KV	102	0.17315	-0.14913	15
WERE	BPU - CITY OF MCPHERSON 115KV	238	0.02402	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.14913	15
WERE	CLAYGEN1 13.200 115KV	29.67	0.01886	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15455	15
WERE	CLAYGEN1 13.200 115KV	29.67	0.01886	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15455	15
WERE	EVANS ENERGY CENTER 138KV	220	0.01792	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15523	15
WERE	EVANS ENERGY CENTER 138KV	220	0.01792	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15523	15
WERE	HUTCHINSON ENERGY CENTER 115KV	344	0.02408	OKGE	OU SPIRIT 138KV	102	0.17315	-0.14907	15
WERE	HUTCHINSON ENERGY CENTER 115KV	344	0.02408	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.14907	15
WERE	HUTCHINSON ENERGY CENTER 69KV	56	0.02414	OKGE	OU SPIRIT 138KV	102	0.17315	-0.14901	15
WERE	HUTCHINSON ENERGY CENTER 69KV	56	0.02414	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.14901	15
WERE	MARSHGEN1 0.6900 34KV	73.8	0.01742	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15573	15
WERE	MARSHGEN1 0.6900 34KV	73.8	0.01742	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15573	15
WERE	SALINA MAIN 115KV	7.18	0.0218	OKGE	OU SPIRIT 138KV	102	0.17315	-0.15135	15
WERE	SALINA MAIN 115KV	7.18	0.0218	OKGE	WOODWARD CO SUB 2 138KV	151.8	0.17315	-0.15135	15
WFEC	ANADARKO 138KV	284	-0.02514	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.14108	16
WFEC	ANADARKO 138KV	284	-0.02514	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.14108	16
WFEC	ANADARKO 69KV	70	-0.02636	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.1423	16
WFEC	ANADARKO 69KV	70	-0.02636	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.1423	16
GRDA	BOOMER 69KV	24	-0.02367	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13961	16
GRDA	BOOMER 69KV	24	-0.02367	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13961	16
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13811	16
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13811	16
OKGE	MCCLAIN 138KV	54.40001	-0.02305	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13899	16
OKGE	MCCLAIN 138KV	54.40001	-0.02305	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13899	16
OKGE	MCCLAIN4 138.00 138KV	8	-0.02305	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13899	16
OKGE	MCCLAIN4 138.00 138KV	8	-0.02305	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13899	16
OKGE	MUSTANG 138KV	149.5	-0.02403	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13997	16
OKGE	MUSTANG 138KV	149.5	-0.02403	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13997	16
OKGE	MUSTANG 69KV	106	-0.02549	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.14143	16
OKGE	MUSTANG 69KV	106	-0.02549	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.14143	16
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.14318	16
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.14318	16
OKGE	REDBUD 345KV	133	-0.02107	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13701	16
OKGE	REDBUD 345KV	133	-0.02107	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13701	16
OKGE	SMITH COGEN 138KV	16	-0.0238	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13974	16
OKGE	SMITH COGEN 138KV	16	-0.0238	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13974	16
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.14053	16
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.14053	16
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13714	16
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13714	16
OKGE	TINKER 5G 138KV	62	-0.02157	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13751	16
OKGE	TINKER 5G 138KV	62	-0.02157	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13751	16
OKGE	G13-029 0.6900 34KV	300	-0.01691	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13285	17
OKGE	G13-029 0.6900 34KV	300	-0.01691	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13285	17
OMPA	OMPA-PAWHUSKA NORTHEAST 138KV	6.7	-0.01486	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.1308	17
OMPA	OMPA-PAWHUSKA NORTHEAST 138KV	6.7	-0.01486	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.1308	17
OKGE	SEMINOLE 138KV	344.0723	-0.01869	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13463	17
OKGE	SEMINOLE 138KV	344.0723	-0.01869	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13463	17
OKGE	SEMINOLE 345KV	572.6	-0.01883	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.13477	17
OKGE	SEMINOLE 345KV	572.6	-0.01883	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.13477	17
AEPW	WELEETKA 138KV	158	-0.01486	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.1308	17
AEPW	WELEETKA 138KV	158	-0.01486	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.1308	17
AEPW	ARSENAL HILL 69KV	110	-0.00754	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12348	18
AEPW	ARSENAL HILL 69KV	110	-0.00754	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12348	18
AEPW	COGENTRIX 345KV	381.9101	-0.01264	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12858	18
AEPW	COGENTRIX 345KV	381.9101	-0.01264	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12858	18
AEPW	EASTMAN 138KV	134.5926	-0.00821	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12415	18
AEPW	EASTMAN 138KV	134.5926	-0.00821	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12415	18
AEPW	ELKINS GENERATOR 69KV	60	-0.00774	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12368	18
AEPW	ELKINS GENERATOR 69KV	60	-0.00774	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12368	18
AEPW	FITZHUGH 161KV	118.3031	-0.0073	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12324	18
AEPW	FITZHUGH 161KV	118.3031	-0.0073	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12324	18
AEPW	FULTON 115KV	153	-0.00882	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12476	18
AEPW	FULTON 115KV	153	-0.00882	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12476	18
WERE	G11_057_3 0.6900 34KV	151.4	-0.00929	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12523	18
WERE	G11_057_3 0.6900 34KV	151.4	-0.00929	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12523	18
OMPA	G12-041 18.000 345KV	121.5	-0.00896	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.1249	18
OMPA	G12-041 18.000 345KV	121.5	-0.00896	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.1249	18
GRDA	GRDA1 161KV	135.1788	-0.00847	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12441	18
GRDA	GRDA1 161KV	135.1788	-0.00847	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12441	18
AEPW	KNOXLEE 138KV	344.2314	-0.00816	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.1241	18
AEPW	KNOXLEE 138KV	344.2314	-0.00816	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.1241	18
AEPW	LEBROCK 345KV	322.7788	-0.0082	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12414	18
AEPW	LEBROCK 345KV	322.7788	-0.0082	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12414	18
AEPW	LIEBERMAN 138KV	242	-0.00767	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12361	18
AEPW	LIEBERMAN 138KV	242	-0.00767	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12361	18
AEPW	LONESTAR POWER PLANT 69KV	50	-0.00864	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12458	18
AEPW	LONESTAR POWER PLANT 69KV	50	-0.00864	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12458	18
OKGE	MUSKOGEE 345KV	37.5	-0.01221	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12815	18
OKGE	MUSKOGEE 345KV	37.5	-0.01221	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12815	18
AEPW	NORTHEASTERN STATION 345KV	481	-0.01272	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12866	18
AEPW	NORTHEASTERN STATION 345KV	481	-0.01272	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12866	18
AEPW	OEC 345KV	149.9927	-0.01147	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12741	18
AEPW	OEC 345KV	149.9927	-0.01147	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12741	18
AEPW	RIVERSIDE STATION 138KV	139	-0.0126	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12854	18
AEPW	RIVERSIDE STATION 138KV	139	-0.0126	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12854	18
GRDA	SALINA 161KV	129	-0.00831	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12425	18
GRDA	SALINA 161KV	129	-0.00831	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12425	18
AEPW	TONTITOWN 161KV	301	-0.00771	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12365	18
AEPW	TONTITOWN 161KV	301	-0.00771	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12365	18
AEPW	TULSA POWER STATION 138KV	307	-0.01243	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12837	18
AEPW	TULSA POWER STATION 138KV	307	-0.01243	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12837	18
AEPW	TURK 138KV	34	-0.00988	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12582	18
AEPW	TURK 138KV	34	-0.00988	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12582	18
AEPW	WELSH 345KV	528	-0.0091	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12504	18
AEPW	WELSH 345KV	528	-0.0091	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12504	18
AEPW	WILKES 138KV	178	-0.00854	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.12448	18
AEPW	WILKES 138KV	178	-0.00854	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.12448	

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

WERE	CHANUTE 69KV	37.8	0.00156	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.11438	20
WERE	CHANUTE 69KV	37.8	0.00156	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.11438	20
WERE	CITY OF ERIE 69KV	20	0.00156	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.11438	20
WERE	CITY OF ERIE 69KV	20	0.00156	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.11438	20
WERE	CITY OF IOLA 69KV	27.7475	0.00268	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.11326	20
WERE	CITY OF IOLA 69KV	27.7475	0.00268	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.11326	20
SWPA	POPLAR BLUFF 161KV	8.16	0.0004	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.11554	20
SWPA	POPLAR BLUFF 161KV	8.16	0.0004	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.11554	20
WERE	CCSSHAR1 12.470 69KV	10	0.00802	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.10792	21
WERE	CCSSHAR1 12.470 69KV	10	0.00802	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.10792	21
WERE	CCSSHAR1 12.470 69KV	10	0.00802	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.10792	21
WERE	CCSSHAR1 12.470 69KV	10	0.00802	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.10792	21
WERE	CITY OF AUGUSTA 69KV	10.89	0.00987	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.10607	21
WERE	CITY OF AUGUSTA 69KV	10.89	0.00987	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.10607	21
WERE	COFFEY CO SUB 34KV	200	0.00974	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.1062	21
WERE	COFFEY CO SUB 34KV	200	0.00974	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.1062	21
WERE	LAWRENCE ENERGY CENTER 115KV	11.00001	0.01335	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.10259	22
WERE	LAWRENCE ENERGY CENTER 115KV	11.00001	0.01335	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.10259	22
WERE	LAWRENCE ENERGY CENTER 230KV	15	0.01361	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.10233	22
WERE	LAWRENCE ENERGY CENTER 230KV	15	0.01361	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.10233	22
WERE	CLAYGEN1 13.200 115KV	29.67	0.0186	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.09734	23
WERE	CLAYGEN1 13.200 115KV	29.67	0.0186	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.09734	23
WERE	EMPORIA ENERGY CENTER 345KV	450	0.0159	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.10004	23
WERE	EMPORIA ENERGY CENTER 345KV	450	0.0159	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.10004	23
WERE	EVANS ENERGY CENTER 138KV	220	0.01792	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.09802	23
WERE	EVANS ENERGY CENTER 138KV	220	0.01792	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.09802	23
WERE	GILL ENERGY CENTER 138KV	34.18262	0.01608	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.09986	23
WERE	GILL ENERGY CENTER 138KV	34.18262	0.01608	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.09986	23
WERE	JEFFREY ENERGY CENTER 230KV	55	0.01598	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.09996	23
WERE	JEFFREY ENERGY CENTER 230KV	55	0.01598	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.09996	23
WERE	JEFFREY ENERGY CENTER 345KV	110	0.01596	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.09998	23
WERE	JEFFREY ENERGY CENTER 345KV	110	0.01596	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.09998	23
WERE	MARSHGEN1 0.6900 34KV	73.8	0.01742	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.09852	23
WERE	MARSHGEN1 0.6900 34KV	73.8	0.01742	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.09852	23
WERE	SOUTH SENECA 115KV	8.4	0.01644	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.0995	23
WERE	SOUTH SENECA 115KV	8.4	0.01644	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.0995	23
WERE	BPU - CITY OF MCPHERSON 115KV	238	0.02402	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.09192	25
WERE	BPU - CITY OF MCPHERSON 115KV	238	0.02402	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.09192	25
WERE	HUTCHINSON ENERGY CENTER 115KV	344	0.02408	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.09186	25
WERE	HUTCHINSON ENERGY CENTER 115KV	344	0.02408	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.09186	25
WERE	HUTCHINSON ENERGY CENTER 69KV	56	0.02414	OKGE	BLAINE CO SUB 2 34KV	299	0.11594	-0.0918	25
WERE	HUTCHINSON ENERGY CENTER 69KV	56	0.02414	OKGE	CRSRDW21 34.500 345KV	216	0.11594	-0.0918	25
WFEC	MORLND 138KV	190.6974	-0.37464	WFEC	SLEEPING BEAR 138KV	80	-0.29608	-0.07856	29
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04516	50
WFEC	ANADARKO 69KV	70	-0.02636	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04428	51
WFEC	ANADARKO 138KV	284	-0.02514	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04306	52
OKGE	MUSTANG 69KV	106	-0.02549	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04341	52
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.04314	52
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04332	52
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04322	52
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.0432	52
WFEC	ANADARKO 69KV	70	-0.02636	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.04226	53
WFEC	ANADARKO 69KV	70	-0.02636	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04244	53
WFEC	ANADARKO 69KV	70	-0.02636	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04234	53
WFEC	ANADARKO 69KV	70	-0.02636	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.04232	53
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04251	53
GRDA	BOOMER 69KV	24	-0.02367	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04159	54
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04195	54
OKGE	MUSTANG 69KV	106	-0.02549	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04157	54
OKGE	MUSTANG 69KV	106	-0.02549	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04147	54
OKGE	MUSTANG 69KV	106	-0.02549	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.04145	54
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.04169	54
WFEC	ANADARKO 138KV	284	-0.02514	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.04104	55
WFEC	ANADARKO 138KV	284	-0.02514	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04122	55
WFEC	ANADARKO 138KV	284	-0.02514	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04112	55
WFEC	ANADARKO 138KV	284	-0.02514	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.0411	55
WFEC	ANADARKO 69KV	70	-0.02636	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.04081	55
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04097	55
OKGE	MUSTANG 69KV	106	-0.02549	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.04139	55
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.04085	55
WFEC	ANADARKO 69KV	70	-0.02636	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03997	56
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.04009	56
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04011	56
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04001	56
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03999	56
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.04059	56
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.04049	56
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.04067	56
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.04057	56

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

AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.04055	56
WFEC	ANADARKO 138KV	284	-0.02514	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03959	57
WFEC	ANADARKO 69KV	70	-0.02636	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03971	57
GRDA	BOOMER 69KV	24	-0.02367	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03957	57
GRDA	BOOMER 69KV	24	-0.02367	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03975	57
GRDA	BOOMER 69KV	24	-0.02367	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03965	57
GRDA	BOOMER 69KV	24	-0.02367	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03963	57
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03993	57
OKGE	MUSTANG 69KV	106	-0.02549	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03994	57
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03949	57
WFEC	ANADARKO 138KV	284	-0.02514	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03875	58
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03895	58
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03913	58
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03903	58
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03901	58
OKGE	MUSTANG 69KV	106	-0.02549	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03884	58
OKGE	MUSTANG 69KV	106	-0.02549	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.0391	58
OKGE	REDBUD 345KV	133	-0.02107	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03899	58
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03904	58
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03912	58
WFEC	ANADARKO 138KV	284	-0.02514	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03849	59
GRDA	BOOMER 69KV	24	-0.02367	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03812	59
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03807	59
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03825	59
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03815	59
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03813	59
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03848	59
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.0382	59
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.0375	60
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03738	60
OKGE	MUSTANG 138KV	149.5	-0.02403	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03764	60
AEPW	SOUTHWESTERN STATION 138KV	297	-0.02459	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03794	60
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03747	60
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03765	60
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03755	60
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03753	60
GRDA	BOOMER 69KV	24	-0.02367	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03702	61
GRDA	BOOMER 69KV	24	-0.02367	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03728	61
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03698	61
OMPA	OMPA-PONCA CITY 69KV	60.91075	-0.02724	WERE	WAVERGEN1 0.6900 34KV	101	0.00974	-0.03698	61
OKGE	REDBUD 345KV	133	-0.02107	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.03697	61
OKGE	REDBUD 345KV	133	-0.02107	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03715	61
OKGE	REDBUD 345KV	133	-0.02107	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03705	61
OKGE	REDBUD 345KV	133	-0.02107	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03703	61
OKGE	SEMINOLE 345KV	572.6	-0.01883	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03675	61
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	EMPORIA ENERGY CENTER 345KV	180	0.0159	-0.0371	61
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	GILL ENERGY CENTER 138KV	145.8174	0.01608	-0.03728	61
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	JEFFREY ENERGY CENTER 230KV	730	0.01598	-0.03718	61
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	JEFFREY ENERGY CENTER 345KV	1460	0.01596	-0.03716	61
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03662	62
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.0364	62
OKGE	MCCLAIN 138KV	54.40001	-0.02305	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03666	62
OKGE	SEMINOLE 138KV	344.0723	-0.01869	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03661	62
WFEC	ANADARKO 69KV	70	-0.02636	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.0361	63
WFEC	ANADARKO 69KV	70	-0.02636	WERE	WAVERGEN1 0.6900 34KV	101	0.00974	-0.0361	63
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03578	63
OKGE	SPRING CREEK UNIT 3 AND 4 345KV	36	-0.0212	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03565	63
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03602	63
OKGE	HORSESHOE LAKE 138KV	581	-0.02217	WERE	LAWRENCE ENERGY CENTER 115KV	154	0.01335	-0.03552	64
OKGE	MUSTANG 69KV	106	-0.02549	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03523	64
OKGE	MUSTANG 69KV	106	-0.02549	WERE	WAVERGEN1 0.6900 34KV	101	0.00974	-0.03523	64
OKGE	REDBUD 345KV	133	-0.02107	WERE	TECUMSEH ENERGY CENTER 115KV	197	0.01445	-0.03552	64
OKGE	TINKER 5G 138KV	62	-0.02157	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03518	64
WFEC	ANADARKO 138KV	284	-0.02514	WERE	COFFEY CO SUB 34KV	201	0.00974	-0.03488	65
WFEC	ANADARKO 138KV	284	-0.02514	WERE	WAVERGEN1 0.6900 34KV	101	0.00974	-0.03488	65
OKGE	G13-029 0.6900 34KV	300	-0.01691	WERE	EVANS ENERGY CENTER 138KV	610	0.01792	-0.03483	65
OKGE	REDBUD 345KV	133	-0.02107	WERE	LAWRENCE ENERGY CENTER 230KV	365	0.01361	-0.03468	65

