Southwest Pool

Preliminary
System Impact Study
SPP-2005-008-1P
For Transmission Service
Requested By
Calpine Energy Services L.P.

From WERE to ERCOTE

For a Reserved Amount Of 100MW
From 1/1/2006
To 1/1/2008

SPP Engineering, Tariff Studies

SPP IMPACT STUDY (SPP-2005-008-1P) April 5, 2005 Page 1 of 17

System Impact Study

Calpine Energy Services L.P. has requested a system impact study for long-term Firm Point-to-Point transmission service from WR to ERCOTE for 100 MW. The period of the service requested is from 1/1/2006 to 1/1/2008. The OASIS reservation numbers are 826680 and 826681. This is a request to redirect previously confirmed OASIS reservations 696708 and 696705. Oasis Reservations 696708 and 696705 are 50 MW requests from AEPW to ERCOTE. The principal objective of this study is to identify system constraints on the SPP Regional Tariff System and potential system facility upgrades that may be necessary to provide the requested service.

This study was performed for the WR to ERCOTE request in order to provide preliminary results identifying facility upgrades that may be required for the requested service. The requested service was modeled as a transfer from the specified source in the WR (WERE) Control Area to the ERCOTE HVDC Tie. The preliminary study is performed with only confirmed reservations included in the models. The models do not include any reservations, even those with a higher priority, that are still in study mode. The results of the transfer analyses are documented in <u>Tables 1</u>, 2, and <u>3</u> of the report. <u>Table 1</u> summarizes the results of the Scenario 1 system impact analysis. <u>Table 2</u> summarizes the results of the Scenario 3 system impact analysis. The primary purpose of this preliminary study is to provide the customer with an estimated cost of the facility upgrades that may be required in order to accommodate the requested service. The preliminary study is performed by monitoring each facility at 90% of its rating.

Eight seasonal models were used to study the WR to ERCOTE request for the requested service period. The SPP 2005 Series Cases Update 1, 2006 April Minimum (06AP), 2006 Spring Peak (06G), 2006 Summer Peak (06SP), 2006 Summer Shoulder (06SH), 2006 Fall Peak (06FA), 2006/07 Winter Peak (06WP), 2007 Summer Peak (07SP), and 2007/08 Winter Peak (07WP) were used to study the impact of the request on the SPP system during the requested service period of 1/1/2006 to 1/1/2008. The chosen base case models were modified to reflect the most current modeling information. The cases were modified to reflect firm transfers during the requested service period that were not already included in the January 2005 base case series models. From the eight seasonal models, three system scenarios were developed. Scenario 1 includes confirmed West to East transfers not already included in the January 2005 base case series models, SPS Exporting (including the Lamar HVDC Tie flowing from SPS to Lamar), and ERCOT importing. Scenario 2 includes confirmed East to West transfers not already included in the January 2005 base case series models, SPS Importing (including the Lamar HVDC Tie flowing from Lamar to SPS), and ERCOT importing. Scenario 3 includes confirmed West to East transfers not already included in the January 2005 base case series models, SPS Importing (including the Lamar HVDC Tie flowing from Lamar to SPS), and ERCOT importing.

PTI's MUST First Contingency Incremental Transfer Capability (FCITC) DC analysis was used to study the request. The MUST options chosen to conduct the System Impact Study analysis can be found in Appendix A. The MUST option to convert MVA branch ratings to estimated MW ratings was used to partially compensate for reactive loading.

These study results are preliminary estimates only and are not intended for use in final determination of the granting of service. These results do not include an evaluation of potential constraints in the planning horizon beyond the reservation period that may limit the right to renew service. Also, these results do not include third party constraints in Non-SPP control areas. Any solutions, upgrades, and costs provided in the preliminary System Impact Study are planning estimates only.

SPP will also review the possibility of curtailment of previously confirmed service and/or the redispatch of units as an option for relieving the additional impacts on the SPP facilities caused by the WR to ERCOTE request. It is the responsibility of the customer to reach an agreement with the applicable party concerning the curtailment of confirmed service and the redispatch of units. The curtailment and redispatch requirements would be called upon prior to implementing NERC TLR Level 5a. These options will be evaluated as part of the Aggregate System Impact Study. Execution of a Facility Study Agreement is not required at this time to maintain queue position. The final upgrade solutions, cost assignments, available redispatch, and curtailment options will be determined upon the completion of the Aggregate System Impact Study and Facility Study. An Aggregate System Impact Study Agreement will be tendered prior to the close of the first open season, June 1, 2005.

<u>Table 1</u> – SPP facility overloads identified for the WR to ERCOTE transfer using Scenario 1

Study Case	From Area - To Area	Branch Overload	Rating <mw></mw>	BC % Loading	TC % Loading	%TDF	Original %TC Loading	Original %TDF	Outaged Branch Causing Overload	ATC <mw></mw>	Solution	Estimated Cost
06AP		NONE IDENTIFIED								100		
06G	WERE-WERE	57152 CIRCLVL 3 115 57165 HTI JCT 3 115 1	94	122.2	126.6	4.1990	122.4	0.2320	56765 HOYT 7 345 56772 STRANGR 7 345 1	0	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
06G	WERE-WERE	57152 CIRCLVL 3 115 57331 KING HL3 115 1	89	113.5	118.2	4.1990	113.8	0.2320	56765 HOYT 7 345 56772 STRANGR 7 345 1	0	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
06G	WERE-WERE	57217 KELLY 3 115 57331 KING HL3 115 1	88	110.1	114.9	4.1990	110.4	0.2320	56765 HOYT 7 345 56772 STRANGR 7 345 1	0	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
06G	WERE-WERE	57180 TEC E 3 115 57192 HOOKJCT 3 115 1	159	82.5	106.6	38.5040	N/A*	N/A*	57180 TEC E 3 115 57182 TECHILE 3 115 1	73	May be relieved due to Westar Operating Procedure 1203 - Outage of the Tecumseh Energy Center (TEC) to Tecumseh Hill 115 kV line.	TBD
06G	WERE-WERE	57153 COLINE 3 115 57192 HOOKJCT 3 115 1	92	81.7	105.6	21.8740	N/A*	N/A*	57180 TEC E 3 115 57182 TECHILE 3 115 1	77	May be relieved due to Westar Operating Procedure 1203 - Outage of the Tecumseh Energy Center (TEC) to Tecumseh Hill 115 kV line.	TBD
06G	WERE-WERE	56765 HOYT 7 345 56766 JECN 7 345 1	1075	90.0	90.4	4.0320	90.1	0.3420	56766 JECN 7 345 56770 MORRIS 7 345 1	100	Solution Undetermined	TBD
06G	WERE-WERE	57180 TEC E 3 115 57182 TECHILE 3 115 1	235	79.1	93.0	32.5750	N/A*	N/A*	56765 HOYT 7 345 56772 STRANGR 7 345 1	100	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
06G	WERE-WERE	57233 166TH 3 115 57244 JARBALO 3 115 1	97	94.5	99.5	4.8190	N/A*	N/A*	57252 MIDLAND 3 115 57261 PENTAGN 3 115 1	100	Solution Undetermined	TBD
06SP	WERE-WERE	56851 AUBURN 6 230 56852 JEC 6 230 1	564	109.2	111.0	9.9320	109.2	0.0680	56765 HOYT 7 345 56766 JECN 7 345 1	0	May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 345kV Line	TBD
06SP	WERE-WERE	56920 TECHILL5 161 *B022 1 1	69	108.9	117.1	5.6040	109.1	0.0940	57163 HOYT 3 115 57165 HTI JCT 3 115 1	0	Solution Undetermined	TBD
06SP	WERE-WERE	57152 CIRCLVL 3 115 57165 HTI JCT 3 115 1	95	111.6	115.0	3.2620	111.8	0.2190	56765 HOYT 7 345 56772 STRANGR 7 345 1	0	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
0650	WERE-WERE	57452 COLUNE 2 145 57402 HOOK IOT 2 145 1	91	102.0	117.7	14.2740	N/A*	N/A*	67490 TEO E 2 116 67492 TEOUII E 2 146 1	0	May be relieved due to Westar Operating Procedure 1203 - Outage of the Tecumseh Energy Center (TEC) to Tecumseh Hill 115 kV line.	TBD
0057	VVERE-VVERE	57153 COLINE 3 115 57192 HOOKJCT 3 115 1	91	102.0	111.1	14.2/40	N/A"	N/A"	57180 TEC E 3 115 57182 TECHILE 3 115 1	U	May be relieved due to Westar Operating Procedure 1203 - Outage of the Tecumseh Energy	טפו
	WERE-WERE	57180 TEC E 3 115 57192 HOOKJCT 3 115 1	159			25.1260	N/A*	N/A*	57180 TEC E 3 115 57182 TECHILE 3 115 1	0	Center (TEC) to Tecumseh Hill 115 kV line.	TBD
06SP		57182 TECHILE 3 115 *B022 1 1	69	108.7	116.9	5.6040	108.9	0.0940	57163 HOYT 3 115 57165 HTI JCT 3 115 1	0	Solution Undetermined	TBD
06SP	WERE-WERE	57233 166TH 3 115 57244 JARBALO 3 115 1	96	103.0	106.4	3.3010	N/A*	N/A*	57252 MIDLAND 3 115 57261 PENTAGN 3 115 1	0	Solution Undetermined	TBD
06SP	WERE-WERE	57180 TEC E 3 115 57182 TECHILE 3 115 1	232	96.0	106.8	24.9980	N/A*	N/A*	56765 HOYT 7 345 56772 STRANGR 7 345 1	37	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD

<u>Table 1</u> – SPP facility overloads identified for the WR to ERCOTE transfer using Scenario 1

							Original					
Study Case	From Area - To Area	Branch Overload		BC %	TC % Loading	%TDF	%TC Loading	Original %TDF	Outaged Branch Causing Overload	ATC <mw></mw>	Solution	Estimated Cost
	WERE-WERE	57153 COLINE 3 115 57182 TECHILE 3 115 1	106	91.9		11.0820	N/A*	N/A*	57180 TEC E 3 115 57182 TECHILE 3 115 1	77	May be relieved due to Westar Operating Procedure 1203 - Outage of the Tecumseh Energy Center (TEC) to Tecumseh Hill 115 kV Line	TBD
06SP	WERE-WERE	56765 HOYT 7 345 56766 JECN 7 345 1	1075	89.8	92.0	24.0190	89.8	0.3430	56766 JECN 7 345 56770 MORRIS 7 345 1	100	Solution Undetermined	TBD
06SP	WERE-WERE	56852 JEC 6 230 56861 EMANHAT 6 230 1	441	93.4	94.5	4.9430	93.4	0.1090	56765 HOYT 7 345 56766 JECN 7 345 1	100	May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 345kV Line	TBD
	WERE-WERE	57152 CIRCLVL 3 115 57331 KING HL3 115 1	90	95.6	99.2	3.2620	95.8	0.2190	56765 HOYT 7 345 56772 STRANGR 7 345 1	100	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
06SP	WERE-WERE	57180 TEC E 3 115 56672 TEC U8 16 1	170	86.4	94.1	13.0000	N/A*	N/A*	Unit:56751 WCGS U1 25.0 ld:1	100	Solution Undetermined	TBD
	WERE-WERE	57217 KELLY 3 115 57331 KING HL3 115 1	89	91.1	94.8	3.2620	91.4	0.2190	56765 HOYT 7 345 56772 STRANGR 7 345 1	100	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
06SP	WERE-WERE	57233 166TH 3 115 57243 JAGGARD3 115 1	96	86.7	90.1	3.3010	N/A*	N/A*	57252 MIDLAND 3 115 57261 PENTAGN 3 115 1	100	Solution Undetermined May be relieved due to Westar	TBD
06SH	WERE-WERE	56851 AUBURN 6 230 56852 JEC 6 230 1	565	104.8	107.1	13.3090	104.8	0.0680	56765 HOYT 7 345 56766 JECN 7 345 1	0	Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 345kV Line	TBD
06SH	WERE-WERE	56920 TECHILL5 161 *B004 1 1	69	118.7	127.3	5.9330	118.8	0.0940	57163 HOYT 3 115 57165 HTI JCT 3 115 1	0	Solution Undetermined	TBD
	WERE-WERE	57152 CIRCLVL 3 115 57165 HTI JCT 3 115 1	95	111.1	115.0	3.6980	111.3		56765 HOYT 7 345 56772 STRANGR 7 345 1	0	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
06SH	WERE-WERE	57182 TECHILE 3 115 *B004 1 1	69	118.5	127.1	5.9330	118.6	0.0940	57163 HOYT 3 115 57165 HTI JCT 3 115 1	0	Solution Undetermined	TBD
	WERE-WERE	57152 CIRCLVL 3 115 57331 KING HL3 115 1	90	98.8	102.9	3.6980	99.0	0.2190	56765 HOYT 7 345 56772 STRANGR 7 345 1	29	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
06SH	WERE-WERE	57233 166TH 3 115 57244 JARBALO 3 115 1	97	97.6	100.8	3.1140	N/A*	N/A*	57252 MIDLAND 3 115 57261 PENTAGN 115 1	76	Solution Undetermined	TBD
06SH	WERE-WERE	57180 TEC E 3 115 57192 HOOKJCT 3 115 1	159	86.2	103.6	27.8180	N/A*	N/A*	57180 TEC E 3 115 57182 TECHILE 3 115 1	79	May be relieved due to Westar Operating Procedure 1203 - Outage of the Tecumseh Energy Center (TEC) to Tecumseh Hill 115 kV line.	TBD
											May be relieved due to Westar Operating Procedure 1203 - Outage of the Tecumseh Energy Center (TEC) to Tecumseh Hill 115	
	WERE-WERE	57153 COLINE 3 115 57192 HOOKJCT 3 115 1	92	85.5		15.8030	N/A*	N/A*	57180 TEC E 3 115 57182 TECHILE 3 115 1	84	kV line.	TBD
06SH	WERE-WERE	56765 HOYT 7 345 56766 JECN 7 345 1	1075	87.6	90.5	30.3380	87.7	0.3430	56766 JECN 7 345 56770 MORRIS 7 345 1	100	Solution Undetermined	TBD
06SH	WERE-WERE	56852 JEC 6 230 56861 EMANHAT 6 230 1	444	90.2	91.5	5.9370	90.2	0.1090	56765 HOYT 7 345 56766 JECN 7 345 1	100	May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 345kV Line	TBD
06SH	WERE-WERE	57153 COLINE 3 115 57182 TECHILE 3 115 1	106	80.4	92.8	13.0200	N/A*	N/A*	57180 TEC E 3 115 57182 TECHILE 3 115 1	100	May be relieved due to Westar Operating Procedure 1203 - Outage of the Tecumseh Energy Center (TEC) to Tecumseh Hill 115 kV Line	TBD

<u>Table 1</u> – SPP facility overloads identified for the WR to ERCOTE transfer using Scenario 1

							Original					
	From Area - To		Rating		TC %		Original %TC	Original		ATC	2.1.11	Estimated
Case	Area	Branch Overload	<mw></mw>	Loading	Loading	%TDF	Loading	%TDF	Outaged Branch Causing Overload	<mw></mw>	Solution	Cost
											May be relieved due to Westar Operating Procedure 803 - Outage	
06SH	WERE-WERE	57180 TEC E 3 115 57182 TECHILE 3 115 1	234	84.8	97.0	28.5210	N/A*	N/A*	56765 HOYT 7 345 56772 STRANGR 7 345 1	100	of the Hoyt to Stranger 345 kV line	TBD
											May be relieved due to Westar	
06SH	WERE-WERE	57182 TECHILE 3 115 57270 STULL T3 115 1	92	85.0	90.1	4.6580	85.1	0.0840	56765 HOYT 7 345 56772 STRANGR 7 345 1	100	Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
											May be relieved due to Westar	
	wene wene			0.4.0			0= 4	0.0400		400	Operating Procedure 803 - Outage	TDD
06SH	WERE-WERE	57217 KELLY 3 115 57331 KING HL3 115 1	89	94.8	99.0	3.6980	95.1	0.2190	56765 HOYT 7 345 56772 STRANGR 7 345 1	100	of the Hoyt to Stranger 345 kV line May be relieved due to Westar	TBD
											Operating Procedure 400 - Outage	
OSEA	WERE-WERE	56851 AUBURN 6 230 56852 JEC 6 230 1	565	105.4	107.2	11.0800	105.4	0.0630	56765 HOYT 7 345 56766 JECN 7 345 1	0	of the Jeffrey Energy Center to Hoyt 345kV Line	TBD
UOFA	WERE-WERE	3063 I AUBURN 6 230 30632 JEC 6 230 I	303	105.4	107.3	11.0600	105.4	0.0030	30703 HOTT 7 343 30700 JECN 7 343 T	U	May be relieved due to Westar	ופטו
											Operating Procedure 803 - Outage	
06FA	WERE-WERE	57152 CIRCLVL 3 115 57165 HTI JCT 3 115 1	95	123.6	128.1	4.2680	123.8	0.2340	56765 HOYT 7 345 56772 STRANGR 7 345 1	0	of the Hoyt to Stranger 345 kV line	TBD
											May be relieved due to Westar	
06FA	WERE-WERE	57152 CIRCLVL 3 115 57331 KING HL3 115 1	90	114.6	119.4	4.2680	114.9	0.2340	56765 HOYT 7 345 56772 STRANGR 7 345 1	0	Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
					_		_				May be relieved due to Westar	
											Operating Procedure 803 - Outage	
06FA	WERE-WERE	57217 KELLY 3 115 57331 KING HL3 115 1	88	111.2	116.0	4.2680	111.4	0.2340	56765 HOYT 7 345 56772 STRANGR 7 345 1	0	of the Hoyt to Stranger 345 kV line May be relieved due to Westar	TBD
											Operating Procedure 400 - Outage	
0654	WERE-WERE	56851 AUBURN 6 230 *B122 AUBRN77X 1 1	306	99.7	100.0	3.8370	99.7	0.1700	56765 HOYT 7 345 56766 JECN 7 345 1	27	of the Jeffrey Energy Center to Hoyt 345kV Line	TBD
UOFA	WERE-WERE	5005 I AUBURN 6 230 B122 AUBRN 77X I I	300	99.7	100.9	3.6370	99.7	0.1700	50705 HOTT 7 345 50700 JECN 7 345 T	21	May be relieved due to Westar	ושו
											Operating Procedure 400 - Outage	
06EA	WERE-WERE	57151 AUBURN 3 115 *B122 AUBRN77X 1 1	307	99.3	100.5	3.8370	99.3	0.1700	56765 HOYT 7 345 56766 JECN 7 345 1	58	of the Jeffrey Energy Center to Hoyt 345kV Line	TBD
	WERE-WERE	56765 HOYT 7 345 56766 JECN 7 345 1	1076	89.9		27.0270	90.0	0.3440	56766 JECN 7 345 56770 MORRIS 7 345 1	100	Solution Undetermined	TBD
	WERE-WERE	57233 166TH 3 115 57244 JARBALO 3 115 1	97	92.5	97.0	4.3900	N/A*	N/A*	57252 MIDLAND 3 115 57261 PENTAGN 3 115 1	100	Solution Undetermined	TBD
00171	WEIKE WEIKE	37230 100111 0 110 07244 0/(KB/KEO 0 110 1	31	32.0	57.0	4.0000	10/7	IVA	07202 MIDE/MD 0 110 072011 EMT/MON 0 110 1	100	May be relieved due to Westar	100
											Operating Procedure 803 - Outage	
06WP	WERE-WERE	57152 CIRCLVL 3 115 57165 HTI JCT 3 115 1	95	123.2	126.4	3.0450	123.4	0.2350	56765 HOYT 7 345 56772 STRANGR 7 345 1	0	of the Hoyt to Stranger 345 kV line	TBD
											May be relieved due to Westar	
06WP	WERE-WERE	57152 CIRCLVL 3 115 57331 KING HL3 115 1	90	116.4	119.8	3.0450	116.7	0.2350	56765 HOYT 7 345 56772 STRANGR 7 345 1	0	Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
											May be relieved due to Westar	
										_	Operating Procedure 803 - Outage	
	WERE-WERE	57217 KELLY 3 115 57331 KING HL3 115 1	89	113.2	116.6	3.0450	113.5	0.2350	56765 HOYT 7 345 56772 STRANGR 7 345 1	0	of the Hoyt to Stranger 345 kV line	TBD
06WP	WERE-WERE	56765 HOYT 7 345 56766 JECN 7 345 1	1075	96.6	96.9	3.0200	96.6	0.3590	56766 JECN 7 345 56770 MORRIS 7 345 1	100	Solution Undetermined May be relieved due to Westar	TBD
											Operating Procedure 400 - Outage	
0700	WEDE WEDE	ECOE4 ALIDLIDAL C 220 *D422 ALIDDAL77V 4 4	202	100 5	105.1	4 0050	100 F	0 2200	56765 HOVE 7 245 56766 HOVE 7 245 4	_	of the Jeffrey Energy Center to	TDD
0/5P	WERE-WERE	56851 AUBURN 6 230 *B122 AUBRN77X 1 1	303	123.5	125.1	4.8250	123.5	0.2280	56765 HOYT 7 345 56766 JECN 7 345 1	0	Hoyt 345kV Line May be relieved due to Westar	TBD
											Operating Procedure 400 - Outage	
07SP	WERE-WERE	56851 AUBURN 6 230 56852 JEC 6 230 1	564	113.0	116.1	17.5660	113.1	0.1860	56765 HOYT 7 345 56766 JECN 7 345 1	0	of the Jeffrey Energy Center to Hoyt 345kV Line	TBD
	WERE-WERE	56920 TECHILL5 161 *B012 1 1	69	110.1		4.4090	110.2	0.1860	57163 HOYT 3 115 57165 HTI JCT 3 115 1	0	Solution Undetermined	TBD
0/38	WIRE-WERE	JUSZU IECHILLO IOI DUIZ I I	บฮ	110.1	110.0	4.4090	110.2	0.0770	37 103 110 11 3 113 37 103 HTT JCT 3 113 1	U	Solution ondetermined	טסו

<u>Table 1</u> – SPP facility overloads identified for the WR to ERCOTE transfer using Scenario 1

							Original					
	From Area - To		Rating		TC % Loading	%TDF	%TC	Original %TDF	Outaged Prench Couring Overland	ATC <mw></mw>	Solution	Estimated
Case	Area	Branch Overload	<1VI V V >	Loading	Loading	% I DF	Loading	%IDF	Outaged Branch Causing Overload	<ivivv></ivivv>	May be relieved due to Westar	Cost
											Operating Procedure 400 - Outage	
07SP	WERE-WERE	57151 AUBURN 3 115 *B122 AUBRN77X 1 1	306	122.2	123.8	4.8250	122.3	0.2280	56765 HOYT 7 345 56766 JECN 7 345 1	0	of the Jeffrey Energy Center to Hoyt 345kV Line	TBD
											May be relieved due to Westar	
07SP	WERE-WERE	57152 CIRCLVL 3 115 57165 HTI JCT 3 115 1	95	113 3	117.1	3.6090	113.6	0.2430	56765 HOYT 7 345 56772 STRANGR 7 345 1	0	Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	
0701	VVLIXL-VVLIXL	37132 GIROLVE 3 113 37103 1111 3CT 3 113 1	33	110.0	117.1	3.0030	113.0	0.2430	30703 11011 7 343 30172 311VAIVOIX 7 343 1	-	May be relieved due to Westar	100
											Operating Procedure 1203 - Outage of the Tecumseh Energy	
											Center (TEC) to Tecumseh Hill 115	
07SP	WERE-WERE	57153 COLINE 3 115 57192 HOOKJCT 3 115 1	91	107.5	114.8	6.6480	N/A*	N/A*	57180 TEC E 3 115 57182 TECHILE 3 115 1	0	kV line. May be relieved due to Westar	TBD
											Operating Procedure 1203 -	
											Outage of the Tecumseh Energy Center (TEC) to Tecumseh Hill 115	
07SP	WERE-WERE	57180 TEC E 3 115 57192 HOOKJCT 3 115 1	159	108.6	116.0	11.7010	N/A*	N/A*	57180 TEC E 3 115 57182 TECHILE 3 115 1	0	kV line.	TBD
07SP	WERE-WERE	57182 TECHILE 3 115 *B012 1 1	69	109.9	116.3	4.4090	110.0	0.0770	57163 HOYT 3 115 57165 HTI JCT 3 115 1	0	Solution Undetermined	TBD
											May be relieved due to Westar Operating Procedure 803 - Outage	
07SP	WERE-WERE	57180 TEC E 3 115 57182 TECHILE 3 115 1	232	98.8	104.9	14.1550	N/A*	N/A*	56765 HOYT 7 345 56772 STRANGR 7 345 1	20	of the Hoyt to Stranger 345 kV line	
											May be relieved due to Westar	
07SP	WERE-WERE	57152 CIRCLVL 3 115 57331 KING HL3 115 1	90	96.9	100.9	3.6090	97.2	0.2430	56765 HOYT 7 345 56772 STRANGR 7 345 1	78	Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
07SP		56765 HOYT 7 345 56766 JECN 7 345 1	1075	92.5	95.8	34.7390	92.6	0.5780	56766 JECN 7 345 56770 MORRIS 7 345 1	100	Solution Undetermined	TBD
								0.01.00			May be relieved due to Westar	
											Operating Procedure 400 - Outage of the Jeffrey Energy Center to	
07SP	WERE-WERE	56852 JEC 6 230 56861 EMANHAT 6 230 1	443	90.2	91.8	7.3640	90.2	0.0840	56765 HOYT 7 345 56766 JECN 7 345 1	100	Hoyt 345kV Line	TBD
											May be relieved due to Westar Operating Procedure 1203 -	
											Outage of the Tecumseh Energy	
07SP	WERE-WERE	57153 COLINE 3 115 57182 TECHILE 3 115 1	106	91.1	96.8	5.9290	N/A*	N/A*	57180 TEC E 3 115 57182 TECHILE 3 115 1	100	Center (TEC) to Tecumseh Hill 115 kV Line	TBD
07SP	WERE-WERE	57180 TEC E 3 115 56672 TEC U8 16 1	169	86.7	94.4	13.0000	N/A*	N/A*	Unit:5 6751 WCGS U1 25.0 ld:1	100	Solution Undetermined	TBD
											May be relieved due to Westar	
07SP	WERE-WERE	57217 KELLY 3 115 57331 KING HL3 115 1	89	92.6	96.6	3.6090	92.9	0.2430	56765 HOYT 7 345 56772 STRANGR 7 345 1	100	Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	
07SP	WERE-WERE	57236 COOP 3 115 57277 WAKARUS3 115 1	92	88.4	92.0	3.3810	88.4	0.0550	57271 SWLWRNC3 115 57277 WAKARUS3 115 1	100	Rebuild 1.53-mile line	\$390,000
0701	WERE WERE	07200 0001 0 110 07277 W W W W W W W W W W W W W W W W W W	02	00.1	02.0	0.0010	00.1	0.0000	or zero over the or zero with the or	100	Trobalia 1.00 fillio lilio	Ψ000,000
07SP	WERE-WERE	57271 SWLWRNC3 115 57277 WAKARUS3 115 1	92	87.3	90.8	3.2730	87.3	0.0540	57236 COOP 3 115 57277 WAKARUS3 115 1	100	Rebuild 4.09-mile line	\$1,000,000
											May be relieved due to Westar Operating Procedure 803 - Outage	
07WP	WERE-WERE	57152 CIRCLVL 3 115 57165 HTI JCT 3 115 1	95	118.6	121.8	3.0140	118.9	0.2570	56765 HOYT 7 345 56772 STRANGR 7 345 1	0	of the Hoyt to Stranger 345 kV line	TBD
											May be relieved due to Westar	
07WP	WERE-WERE	57152 CIRCLVL 3 115 57331 KING HL3 115 1	90	111.1	114 4	3.0140	111.4	0.2570	56765 HOYT 7 345 56772 STRANGR 7 345 1	0	Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	
37.111	WEILE	5. 102 6 (CEVE O 110 07 00 1 MINO 11EO 110 1	- 00	4 1 1 1 1 1	111.1	3.0110	111.7	3.2070	33.33.13117 010 33172 0110 11310 1 040 1		May be relieved due to Westar	155
0714/5	WEDE WEDE	E7047 KELLV 2 445 E7004 KINO III 2 445 4	00	100.0	111 1	2 04 40	100.0	0.0570	ECTOE LIOVE 7 245 50770 OTDANOD 7 045 4		Operating Procedure 803 - Outage	
U/WP	WERE-WERE	57217 KELLY 3 115 57331 KING HL3 115 1	89	108.0	111.4	3.0140	108.2	0.2570	56765 HOYT 7 345 56772 STRANGR 7 345 1	0	of the Hoyt to Stranger 345 kV line	TBD

<u>Table 1</u> – SPP facility overloads identified for the WR to ERCOTE transfer using Scenario 1

Study	From Area - To Area				TC % Loading	%TDF	Original %TC Loading	Original	Outaged Branch Causing Overload	ATC <mw></mw>	Solution	Estimated Cost
07WP	WERE-WERE	56765 HOYT 7 345 56766 JECN 7 345 1	1075	92.9	93.2	3.0480	93.0	0.5790	56766 JECN 7 345 56770 MORRIS 7 345 1	100	Solution Undetermined	TBD
											This cost may be higher due to additional facilities whose solutions will be determined during the Facility Study process	\$*
											Total Cost with Facilities Monitored @ 90% Loading	\$1,390,000
											Total Cost with Facilities Monitored @ 100% Loading	\$-

<u>Table 2</u> – SPP facility overloads identified for the WR to ERCOTE transfer using Scenario 2

	<u> </u>	T							T	1		
Study	From Area - To		Rating	BC %	TC %		Original %TC	Original		ATC		Estimated
Case	Area	Branch Overload			Loading	%TDF	Loading	%ŤDF	Outaged Branch Causing Overload	<mw></mw>	Solution	Cost
06AP		NONE IDENTIFIED								100		
06G	WERE-WERE	57152 CIRCLVL 3 115 57165 HTI JCT 3 115 1	95	113.9	118.3	4.1990	114.1	0.2320	56765 HOYT 7 345 56772 STRANGR 7 345 1	0	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
											May be relieved due to Westar Operating Procedure 803 - Outage of	
06G	WERE-WERE	57152 CIRCLVL 3 115 57331 KING HL3 115 1	89	104.6	109.3	4.1990	104.9	0.2320	56765 HOYT 7 345 56772 STRANGR 7 345 1	0	the Hoyt to Stranger 345 kV line	TBD
06G	WERE-WERE	57217 KELLY 3 115 57331 KING HL3 115 1	88	101.2	106.0	4.1990	101.5	0.2320	56765 HOYT 7 345 56772 STRANGR 7 345 1	0	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
06G	WEDE WEDE	57180 TEC E 3 115 57192 HOOKJCT 3 115 1	159	82.3	106.5	38.5040	N/A*	N/A*	57180 TEC E 3 115 57182 TECHILE 3 115 1	73	May be relieved due to Westar Operating Procedure 1203 - Outage of the Tecumseh Energy Center (TEC) to Tecumseh Hill 115 kV line.	
000	WERE-WERE	3/160 TEC E 3 113 3/192 HOORJCT 3 113 1	159	02.3	100.5	36.3040	IN/A	N/A	37 160 TEC E 3 113 97 162 TECHILE 3 113 1	13	May be relieved due to Westar	IBD
06G	WFRF-WFRF	57153 COLINE 3 115 57192 HOOKJCT 3 115 1	92	81.6	105.5	21.8740	N/A*	N/A*	57180 TEC E 3 115 57182 TECHILE 3 115 1	77	Operating Procedure 1203 - Outage of the Tecumseh Energy Center (TEC) to Tecumseh Hill 115 kV line.	
300	***************************************	000 0022 002020 000 . 00 .	02	01.0	.00.0	21.01.10	14.71		0.100.120 2 0.100 1.102 1.2011122 0.110 1		May be relieved due to Westar	.55
06G	WERE-WERE	57180 TEC E 3 115 57182 TECHILE 3 115 1	235	79.0	92.8	32.5750	N/A*	N/A*	56765 HOYT 7 345 56772 STRANGR 7 345 1	100	Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
06G	WERE-WERE	57233 166TH 3 115 57244 JARBALO 3 115 1	97	92.5	97.5	4.8190	N/A*	N/A*	57252 MIDLAND 3 115 57261 PENTAGN 3 115 1	100	Solution Undetermined	TBD
06SP	WERE-WERE	56851 AUBURN 6 230 56852 JEC 6 230 1	564	107.1	108.8	9.9320	107.1	0.0680	56765 HOYT 7 345 56766 JECN 7 345 1	0	May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 345kV Line	TBD
06SP	WERE-WERE				119.3	5.6040	111.3	0.0000		0		TBD
005P	WERE-WERE	56920 TECHILL5 161 *B022 1 1	69	111.2	119.5	5.6040	111.3	0.0940	57163 HOYT 3 115 57165 HTI JCT 3 115 1	U	Solution Undetermined	IBD
06SP	WERE-WERE	57152 CIRCLVL 3 115 57165 HTI JCT 3 115 1	95	104.3	107.7	3.2620	104.5	0.2190	56765 HOYT 7 345 56772 STRANGR 7 345 1	0	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
06SP	WERE-WERE	57153 COLINE 3 115 57192 HOOKJCT 3 115 1	91	101.9	117.6	14.2740	N/A*	N/A*	57180 TEC E 3 115 57182 TECHILE 3 115 1	0	May be relieved due to Westar Operating Procedure 1203 - Outage of the Tecumseh Energy Center (TEC) to Tecumseh Hill 115 kV line.	
06SP	WERE-WERE	57180 TEC E 3 115 57192 HOOKJCT 3 115 1	159	102.8	118.7	25.1260	N/A*	N/A*	57180 TEC E 3 115 57182 TECHILE 3 115 1	0	May be relieved due to Westar Operating Procedure 1203 - Outage of the Tecumseh Energy Center (TEC) to Tecumseh Hill 115 kV line.	
06SP	WERE-WERE	57182 TECHILE 3 115 *B022 1 1	69	110.9	119.1	5.6040	111.1	0.0940	57163 HOYT 3 115 57165 HTI JCT 3 115 1	0	Solution Undetermined	TBD
06SP	WERE-WERE	57233 166TH 3 115 57244 JARBALO 3 115 1	97	99.4	102.8	3.3010	N/A*	N/A*	57252 MIDLAND 3 115 57261 PENTAGN 3 115 1	17	Solution Undetermined	TBD
06SP	WERE-WERE	57153 COLINE 3 115 57182 TECHILE 3 115 1	106	96.2	106.7	11.0820	N/A*	N/A*	57180 TEC E 3 115 57182 TECHILE 3 115 1	37	May be relieved due to Westar Operating Procedure 1203 - Outage of the Tecumseh Energy Center (TEC) to Tecumseh Hill 115 kV Line	
3301	THE VICINE	S. 155 GOLINE S 115 OF 102 TEORNILE S 115 T	.50	55.2	100.1	11.0020		10/5	555 125 2 5 1 15 67 152 126 IIIE 5 1 15 1	- 5,	May be relieved due to Westar	
06SP	WERE-WERE	57180 TEC E 3 115 57182 TECHILE 3 115 1	232	95.7	106.5	24.9980	N/A*	N/A*	56765 HOYT 7 345 56772 STRANGR 7 345 1	40	Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
											May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt	
06SP	WERE-WERE	56852 JEC 6 230 56861 EMANHAT6 230 1	441	92.8	93.9	4.9430	92.8	0.1090	56765 HOYT 7 345 56766 JECN 7 345 1	100	345kV Line	TBD

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<u>Table 2</u> – SPP facility overloads identified for the WR to ERCOTE transfer using Scenario 2

Study	From Area - To		Rating	BC %	TC %		Original %TC	Original		ATC		Estimated
Case	Area	Branch Overload		Loading		%TDF	Loading	%TDF	Outaged Branch Causing Overload	<mw></mw>	Solution	Cost
											May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt	
06SH	WERE-WERE	56851 AUBURN 6 230 56852 JEC 6 230 1	565	102.7	105.0	13.3090	102.7	0.0680	56765 HOYT 7 345 56766 JECN 7 345 1	0	345kV Line	TBD
06SH	WERE-WERE	56920 TECHILL5 161 *B004 1 1	69	120.9	129.6	5.9330	121.1	0.0940	57163 HOYT 3 115 57165 HTI JCT 3 115 1	0	Solution Undetermined	TBD
06SH	WERE-WERE	57152 CIRCLVL 3 115 57165 HTI JCT 3 115 1	95	103.6	107.5	3.6980	103.8	0.2190	56765 HOYT 7 345 56772 STRANGR 7 345 1	0	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
06SH	WERE-WERE	57182 TECHILE 3 115 *B004 1 1	69	120.5	129.1	5.9330	120.6	0.0940	57163 HOYT 3 115 57165 HTI JCT 3 115 1	0	Solution Undetermined	TBD
06SH		57180 TEC E 3 115 57192 HOOKJCT 3 115 1		86.0	103.5	27.8180	N/A*	N/A*	57180 TEC E 3 115 57182 TECHILE 3 115 1	80	May be relieved due to Westar Operating Procedure 1203 - Outage of the Tecumseh Energy Center (TEC) to Tecumseh Hill 115 kV line.	
06SH	WERE-WERE	57153 COLINE 3 115 57192 HOOKJCT 3 115 1	92	85.3	102.6	15.8030	N/A*	N/A*	57180 TEC E 3 115 57182 TECHILE 3 115 1	85	May be relieved due to Westar Operating Procedure 1203 - Outage of the Tecumseh Energy Center (TEC) to Tecumseh Hill 115 kV line.	
06SH	WERE-WERE	56852 JEC 6 230 56861 EMANHAT6 230 1	444	89.6	90.9	5.9370	89.6	0.1090	56765 HOYT 7 345 56766 JECN 7 345 1	100	May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 345kV Line	TBD
06SH	WERE-WERE	57152 CIRCLVL 3 115 57331 KING HL3 115 1	90	90.9	95.0	3.6980	91.1	0.2190	56765 HOYT 7 345 56772 STRANGR 7 345 1	100	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
06511	WEDE WEDE	57153 COLINE 3 115 57182 TECHILE 3 115 1	106	85.3	97.6	13.0200	N/A*	N/A*	57180 TEC E 3 115 57182 TECHILE 3 115 1	100	May be relieved due to Westar Operating Procedure 1203 - Outage of the Tecumseh Energy Center (TEC) to Tecumseh Hill 115 kV Line	
	WERE-WERE	57180 TEC E 3 115 57182 TECHILE 3 115 1	234	84.7	96.8	28.5210	N/A*	N/A*	56765 HOYT 7 345 56772 STRANGR 7 345 1	100	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
06SH	WERE-WERE	57217 KELLY 3 115 57331 KING HL3 115 1	89	87.1	91.2	3.6980	87.3	0.2190	56765 HOYT 7 345 56772 STRANGR 7 345 1	100	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
06SH	WERE-WERE	57233 166TH 3 115 57244 JARBALO 3 115 1	97	94.6	97.8	3.1140	N/A*	N/A*	57252 MIDLAND 3 115 57261 PENTAGN 3 115 1	100	Solution Undetermined	TBD
06FA	WERE-WERE	56851 AUBURN 6 230 56852 JEC 6 230 1	565	103.3	105.3	11.0800	103.3	0.0630	56765 HOYT 7 345 56766 JECN 7 345 1	0	May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 345kV Line	TBD
06FA	WERE-WERE	57152 CIRCLVL 3 115 57165 HTI JCT 3 115 1	95	114.8	119.3	4.2680	115.0	0.2340	56765 HOYT 7 345 56772 STRANGR 7 345 1	0	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
06FA	WERE-WERE	57152 CIRCLVL 3 115 57331 KING HL3 115 1	90	105.4	110.1	4.2680	105.6	0.2340	56765 HOYT 7 345 56772 STRANGR 7 345 1	0	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
06FA	WERE-WERE	57217 KELLY 3 115 57331 KING HL3 115 1	89	101.7	106.5	4.2680	102.0	0.2340	56765 HOYT 7 345 56772 STRANGR 7 345 1	0	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD

<u>Table 2</u> – SPP facility overloads identified for the WR to ERCOTE transfer using Scenario 2

							Original					
	From Area - To	Provide O and and	Rating	BC %	TC %	%TDF	%TC	Original	O to a d Brook Oo viss Oo dood	ATC	0.1.5	Estimated
Case	Area	Branch Overload	<1/1/1//>	Loading	Loading	%TDF	Loading	%TDF	Outaged Branch Causing Overload	<mw></mw>	Solution May be relieved due to Westar	Cost
											Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt	
06FA	WERE-WERE	56851 AUBURN 6 230 *B122 AUBRN77X 1 1	306	96.3	97.6	3.8370	96.4	0.1700	56765 HOYT 7 345 56766 JECN 7 345 1	100	345kV Line	TBD
											May be relieved due to Westar Operating Procedure 400 - Outage of	
											the Jeffrey Energy Center to Hoyt	
	WERE-WERE	57151 AUBURN 3 115 *B122 AUBRN77X 1 1	307	95.9	97.2	3.8370	96.0	0.1700	56765 HOYT 7 345 56766 JECN 7 345 1	100	345kV Line	TBD
06FA	WERE-WERE	57233 166TH 3 115 57244 JARBALO 3 115 1	97	90.7	95.3	4.3900	N/A*	N/A*	57252 MIDLAND 3 115 57261 PENTAGN 3 115 1	100	Solution Undetermined	TBD
											May be relieved due to Westar Operating Procedure 803 - Outage of	
06WP	WERE-WERE	57152 CIRCLVL 3 115 57165 HTI JCT 3 115 1	95	116.3	119.5	3.0450	116.5	0.2350	56765 HOYT 7 345 56772 STRANGR 7 345 1	0	the Hoyt to Stranger 345 kV line	TBD
											May be relieved due to Westar	
06WP	WERE-WERE	57152 CIRCLVL 3 115 57331 KING HL3 115 1	90	108.8	112.2	3.0450	109.1	0.2350	56765 HOYT 7 345 56772 STRANGR 7 345 1	0	Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
											May be relieved due to Westar	
OCIMP	WEDE WEDE	57047 KELLY 2 445 57224 KINO III 2 445 4	00	405.7	100.1	2.0450	405.0	0.0050	50705 HOVE 7 045 50770 OTDANOD 7 045 4		Operating Procedure 803 - Outage of	
	WERE-WERE	57217 KELLY 3 115 57331 KING HL3 115 1	89 1075	105.7 94.2	109.1 94.5	3.0450	105.9 94.3	0.2350	56765 HOYT 7 345 56772 STRANGR 7 345 1	100	the Hoyt to Stranger 345 kV line	TBD TBD
06WP	WERE-WERE	56765 HOYT 7 345 56766 JECN 7 345 1	1075	94.2	94.5	3.0200	94.3	0.3590	56766 JECN 7 345 56770 MORRIS 7 345 1	100	Solution Undetermined May be relieved due to Westar	IBD
											Operating Procedure 400 - Outage of	
07SP	WERE-WERE	56851 AUBURN 6 230 *B122 AUBRN77X 1 1	303	120.3	121.9	4.8250	120.4	0.2280	56765 HOYT 7 345 56766 JECN 7 345 1	0	the Jeffrey Energy Center to Hoyt 345kV Line	TBD
											May be relieved due to Westar	
											Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt	
07SP	WERE-WERE	56851 AUBURN 6 230 56852 JEC 6 230 1	564	110.9	114.0	17.5660	110.9	0.1860	56765 HOYT 7 345 56766 JECN 7 345 1	0	345kV Line	TBD
07SP	WERE-WERE	56920 TECHILL5 161 *B012 1 1	68	111.0	117.5	4.4090	111.2	0.0770	57163 HOYT 3 115 57165 HTI JCT 3 115 1	0	Solution Undetermined	TBD
											May be relieved due to Westar Operating Procedure 400 - Outage of	
											the Jeffrey Energy Center to Hoyt	
07SP	WERE-WERE	57151 AUBURN 3 115 *B122 AUBRN77X 1 1	306	119.2	120.7	4.8250	119.2	0.2280	56765 HOYT 7 345 56766 JECN 7 345 1	0	345kV Line	TBD
											May be relieved due to Westar Operating Procedure 803 - Outage of	
07SP	WERE-WERE	57152 CIRCLVL 3 115 57165 HTI JCT 3 115 1	95	105.2	109.0	3.6090	105.5	0.2430	56765 HOYT 7 345 56772 STRANGR 7 345 1	0	the Hoyt to Stranger 345 kV line	TBD
											May be relieved due to Westar	
											Operating Procedure 1203 - Outage of the Tecumseh Energy Center (TEC) to	
07SP	WERE-WERE	57153 COLINE 3 115 57192 HOOKJCT 3 115 1	91	107.4	114.7	6.6480	N/A*	N/A*	57180 TEC E 3 115 57182 TECHILE 3 115 1	0	Tecumseh Hill 115 kV line.	TBD
											May be relieved due to Westar Operating Procedure 1203 - Outage of	
											the Tecumseh Energy Center (TEC) to	
		57180 TEC E 3 115 57192 HOOKJCT 3 115 1		108.4	115.8	11.7010	N/A*	N/A*	57180 TEC E 3 115 57182 TECHILE 3 115 1	0	Tecumseh Hill 115 kV line.	TBD
07SP	WERE-WERE	57182 TECHILE 3 115 *B012 1 1	69	110.6	117.1	4.4090	110.8	0.0770	57163 HOYT 3 115 57165 HTI JCT 3 115 1	0	Solution Undetermined	TBD
											May be relieved due to Westar Operating Procedure 803 - Outage of	
07SP	WERE-WERE	57180 TEC E 3 115 57182 TECHILE 3 115 1	232	98.6	104.7	14.1550	N/A*	N/A*	56765 HOYT 7 345 56772 STRANGR 7 345 1	23	the Hoyt to Stranger 345 kV line	TBD

<u>Table 2</u> – SPP facility overloads identified for the WR to ERCOTE transfer using Scenario 2

Study Case	From Area - To Area	Branch Overload	Rating <mw></mw>		TC % Loading	%TDF	Original %TC Loading	Original %TDF	Outaged Branch Causing Overload	ATC <mw></mw>		Estimated Cost
07SP	WERE-WERE	57153 COLINE 3 115 57182 TECHILE 3 115 1	105	96.3	101.9	5.9290	N/A*	N/A*	57180 TEC E 3 115 57182 TECHILE 3 115 1	67	May be relieved due to Westar Operating Procedure 1203 - Outage of the Tecumseh Energy Center (TEC) to Tecumseh Hill 115 kV Line	
07SP	WERE-WERE	56765 HOYT 7 345 56766 JECN 7 345 1	1075	89.9	93.2	34.7390	90.0	0.5780	56766 JECN 7 345 56770 MORRIS 7 345 1	100	Solution Undetermined	TBD
07SP	WERE-WERE	56765 HOYT 7 345 56766 JECN 7 345 1	1075	88.8	91.8	32.3790	88.8	0.8460	56851 AUBURN 6 230 56852 JEC 6 230 1	100	May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 345kV Line	TBD
07SP	WERE-WERE	56852 JEC 6 230 56861 EMANHAT6 230 1	443	89.7	91.3	7.3640	89.7	0.0840	56765 HOYT 7 345 56766 JECN 7 345 1	100	May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 345kV Line	TBD
07SP	WERE-WERE	57152 CIRCLVL 3 115 57331 KING HL3 115 1	90	88.2	92.2	3.6090	88.5	0.2430	56765 HOYT 7 345 56772 STRANGR 7 345 1	100	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
07WP	WERE-WERE	57152 CIRCLVL 3 115 57165 HTI JCT 3 115 1	95	111.2	114.4	3.0140	111.5	0.2570	56765 HOYT 7 345 56772 STRANGR 7 345 1	0	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
07WP	WERE-WERE	57152 CIRCLVL 3 115 57331 KING HL3 115 1	90	103.2	106.5	3.0140	103.4	0.2570	56765 HOYT 7 345 56772 STRANGR 7 345 1	0	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
07WP	WERE-WERE	57217 KELLY 3 115 57331 KING HL3 115 1	89	100.0	103.4	3.0140	100.3	0.2570	56765 HOYT 7 345 56772 STRANGR 7 345 1	0	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
07WP	WERE-WERE	56765 HOYT 7 345 56766 JECN 7 345 1	1076	90.6	90.9	3.0480	90.7	0.5790	56766 JECN 7 345 56770 MORRIS 7 345 1	100	Solution Undetermined	TBD
											This cost may be higher due to additional facilities whose solutions will be determined during the Facility Study process	
											Total Cost with Facilities Monitored @ 90% Loading	\$-
											Total Cost with Facilities Monitored @ 100% Loading	\$-

<u>Table 3</u> – SPP facility overloads identified for the WR to ERCOTE transfer using Scenario 3

							Original					
	From Area - To		Rating		TC %		%TC	Original		ATC		Estimated
Case	Area	Branch Overload	<mw></mw>	Loading	Loading	%TDF	Loading	%TDF	Outaged Branch Causing Overload	<mw></mw>	Solution	Cost
06AP		NONE IDENTIFIED								100		
06G	WERE-WERE	57152 CIRCLVL 3 115 57165 HTI JCT 3 115 1	94	122.2	126.6	4.1990	122.4	0.2320	56765 HOYT 7 345 56772 STRANGR 7 345 1	0	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
06G	WERE-WERE	57152 CIRCLVL 3 115 57331 KING HL3 115 1	89	113.5	118.2	4.1990	113.8	0.2320	56765 HOYT 7 345 56772 STRANGR 7 345 1	0	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
06G	WERE-WERE	57217 KELLY 3 115 57331 KING HL3 115 1	88	110.1	114.9	4.1990	110.4	0.2320	56765 HOYT 7 345 56772 STRANGR 7 345 1	0	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
06G	WERE-WERE	57180 TEC E 3 115 57192 HOOKJCT 3 115 1	159	82.5	106.6	38.5040	N/A*	N/A*	57180 TEC E 3 115 57182 TECHILE 3 115 1	73	May be relieved due to Westar Operating Procedure 1203 - Outage of the Tecumseh Energy Center (TEC) to Tecumseh Hill 115 kV line.	TBD
06G	WERE-WERE	57153 COLINE 3 115 57192 HOOKJCT 3 115 1	92	81.7	105.6	21.8740	N/A*	N/A*	57180 TEC E 3 115 57182 TECHILE 3 115 1	77	May be relieved due to Westar Operating Procedure 1203 - Outage of the Tecumseh Energy Center (TEC) to Tecumseh Hill 115 kV line.	TBD
06G	WERE-WERE	56765 HOYT 7 345 56766 JECN 7 345 1	1075	90.0	90.4	4.0320	90.1	0.3420	56766 JECN 7 345 56770 MORRIS 7 345 1	100	Solution Undetermined	TBD
06G	WERE-WERE	57180 TEC E 3 115 57182 TECHILE 3 115 1	235	79.1	93.0	32.5750	N/A*	N/A*	56765 HOYT 7 345 56772 STRANGR 7 345 1	100	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
06G	WERE-WERE	57233 166TH 3 115 57244 JARBALO 3 115 1	97	94.5	99.5	4.8190	N/A*	N/A*	57252 MIDLAND 3 115 57261 PENTAGN 3 115 1	100	Solution Undetermined	TBD
											May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt	
06SP	WERE-WERE	56851 AUBURN 6 230 56852 JEC 6 230 1	564	109.2	111.0	9.9320	109.2	0.0680	56765 HOYT 7 345 56766 JECN 7 345 1	0	345kV Line	TBD
06SP	WERE-WERE	56920 TECHILL5 161 *B022 1 1	69	108.9	117.1	5.6040	109.1	0.0940	57163 HOYT 3 115 57165 HTI JCT 3 115 1	0	Solution Undetermined	TBD
06SP	WERE-WERE	57152 CIRCLVL 3 115 57165 HTI JCT 3 115 1	95	111.6	115.0	3.2620	111.8	0.2190	56765 HOYT 7 345 56772 STRANGR 7 345 1	0	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
											May be relieved due to Westar Operating Procedure 1203 - Outage of the Tecumseh Energy Center	
06SP	WERE-WERE	57153 COLINE 3 115 57192 HOOKJCT 3 115 1	91	102.0	117.7	14.2740	N/A*	N/A*	57180 TEC E 3 115 57182 TECHILE 3 115 1	0	(TEC) to Tecumseh Hill 115 kV line. May be relieved due to Westar Operating Procedure 1203 - Outage	TBD
	WERE-WERE	57180 TEC E 3 115 57192 HOOKJCT 3 115 1	159	103.0		25.1260	N/A*	N/A*	57180 TEC E 3 115 57182 TECHILE 3 115 1	0	of the Tecumseh Energy Center (TEC) to Tecumseh Hill 115 kV line.	TBD
06SP	WERE-WERE	57182 TECHILE 3 115 *B022 1 1	69	108.7	116.9	5.6040	108.9	0.0940	57163 HOYT 3 115 57165 HTI JCT 3 115 1	0	Solution Undetermined	TBD
06SP	WERE-WERE	57180 TEC E 3 115 57182 TECHILE 3 115 1	232	96.0	106.8	24.9980	N/A*	N/A*	56765 HOYT 7 345 56772 STRANGR 7 345 1	37	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line May be relieved due to Westar	TBD
	WERE-WERE	57153 COLINE 3 115 57182 TECHILE 3 115 1 56765 HOYT 7 345 56766 JECN 7 345 1	106 1075	91.9 89.8		11.0820 24.0190	N/A* 89.8	N/A* 0.3430	57180 TEC E 3 115 57182 TECHILE 3 115 1 56766 JECN 7 345 56770 MORRIS 7 345 1	77	Operating Procedure 1203 - Outage of the Tecumseh Energy Center (TEC) to Tecumseh Hill 115 kV Line	TBD TBD

<u>Table 3</u> – SPP facility overloads identified for the WR to ERCOTE transfer using Scenario 3

	From Area - To		Rating		TC %	0/755		Original		ATC	0.1.11	Estimated
Case	Area	Branch Overload		Loading	Loading	%TDF	Loading		Outaged Branch Causing Overload	<mw></mw>	Solution May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt	
	WERE-WERE	56852 JEC 6 230 56861 EMANHAT6 230 1 57152 CIRCLVL 3 115 57331 KING HL3 115 1	90	93.4	94.5	4.9430 3.2620	93.4	0.1090	56765 HOYT 7 345 56766 JECN 7 345 1 56765 HOYT 7 345 56772 STRANGR 7 345 1	100	345kV Line May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD TBD
	WERE-WERE	57217 KELLY 3 115 57331 KING HL3 115 1	89	91.1	94.8	3.2620	91.4	0.2190	56765 HOYT 7 345 56772 STRANGR 7 345 1	100	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
	WERE-WERE	57233 166TH 3 115 57243 JAGGARD3 115 1	96	86.7	90.1	3.3010	N/A*	N/A*	57252 MIDLAND 3 115 57261 PENTAGN 3 115 1	100	Solution Undetermined	TBD
	WERE-WERE	56851 AUBURN 6 230 56852 JEC 6 230 1	565	104.8	107.1	13.3090	104.8	0.0680	56765 HOYT 7 345 56766 JECN 7 345 1	0	May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 345kV Line	
06SH	WERE-WERE	56920 TECHILL5 161 *B004 1 1	69	118.7	127.3	5.9330	118.8	0.0940	57163 HOYT 3 115 57165 HTI JCT 3 115 1	0	Solution Undetermined	TBD
06SH	WERE-WERE	57152 CIRCLVL 3 115 57165 HTI JCT 3 115 1	95	111.1	115.0	3.6980	111.3	0.2190	56765 HOYT 7 345 56772 STRANGR 7 345 1	0	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
06SH	WERE-WERE	57182 TECHILE 3 115 *B004 1 1	69	118.5	127.1	5.9330	118.6	0.0940	57163 HOYT 3 115 57165 HTI JCT 3 115 1	0	Solution Undetermined	TBD
06SH	WERE-WERE	57152 CIRCLVL 3 115 57331 KING HL3 115 1	90	98.8	102.9	3.6980	99.0	0.2190	56765 HOYT 7 345 56772 STRANGR 7 345 1	29	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
06SH	WERE-WERE	57233 166TH 3 115 57244 JARBALO 3 115 1	97	97.6	100.8	3.1140	N/A*	N/A*	57252 MIDLAND 3 115 57261 PENTAGN 3 115 1	76	Solution Undetermined	TBD
	WERE-WERE	57180 TEC E 3 115 57192 HOOKJCT 3 115 1	159	86.2		27.8180	N/A*	N/A*	57180 TEC E 3 115 57182 TECHILE 3 115 1	79	May be relieved due to Westar Operating Procedure 1203 - Outage of the Tecumseh Energy Center (TEC) to Tecumseh Hill 115 kV line. May be relieved due to Westar Operating Procedure 1203 - Outage of the Tecumseh Energy Center	TBD
06SH	WERE-WERE	57153 COLINE 3 115 57192 HOOKJCT 3 115 1	92	85.5	102.8	15.8030	N/A*	N/A*	57180 TEC E 3 115 57182 TECHILE 3 115 1	84	(TEC) to Tecumseh Hill 115 kV line.	TBD
06SH	WERE-WERE	56765 HOYT 7 345 56766 JECN 7 345 1	1075	87.6	90.5	30.3380	87.7	0.3430	56766 JECN 7 345 56770 MORRIS 7 345 1	100	Solution Undetermined	TBD
06SH	WERE-WERE	56852 JEC 6 230 56861 EMANHAT6 230 1	444	90.2	91.5	5.9370	90.2	0.1090	56765 HOYT 7 345 56766 JECN 7 345 1	100	May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 345kV Line	TBD
06SH	WERE-WERE	57153 COLINE 3 115 57182 TECHILE 3 115 1	106	80.4	92.8	13.0200	N/A*	N/A*	57180 TEC E 3 115 57182 TECHILE 3 115 1	100	May be relieved due to Westar Operating Procedure 1203 - Outage of the Tecumseh Energy Center (TEC) to Tecumseh Hill 115 kV Line	TBD
	WERE-WERE	57180 TEC E 3 115 57182 TECHILE 3 115 1	234	84.8		28.5210	N/A*	N/A*	56765 HOYT 7 345 56772 STRANGR 7 345 1	100	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
06SH	WERE-WERE	57182 TECHILE 3 115 57270 STULL T3 115 1	92	85.0	90.1	4.6580	85.1	0.0840	56765 HOYT 7 345 56772 STRANGR 7 345 1	100	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD
06SH	WERE-WERE	57217 KELLY 3 115 57331 KING HL3 115 1	89	94.8	99.0	3.6980	95.1	0.2190	56765 HOYT 7 345 56772 STRANGR 7 345 1	100	May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line	TBD

<u>Table 3</u> – SPP facility overloads identified for the WR to ERCOTE transfer using Scenario 3

Subdy From Area = To Case Area Branch Overload Area Branch Overload Area Branch Overload Area Area Branch Overload Area A								0:::::					
OBFA WERE-WERE 58851 AUBURN 6 230 58852 JEC 6 230 1 585 105.4 107.3 11.0800 105.4 0.0830 58765 HOYT 7 345 58768 JECN 7 345 1 0 0 3486V Line 11.080 11.080 105.4 0.0830 58765 HOYT 7 345 58768 JECN 7 345 1 0 0 3486V Line 11.080 3486V Line 11.080 3486V Line 11.080 3486V Line 34.080 34.0 0.0830 58765 HOYT 7 345 58772 STRANGR 7 345 1 0 0 0 0 0 0 0 0 0							0/ T D F					2.1."	Estimated
Operating Procedure 400 - Outago of the Jeffrey Energy Center to Hory Tayl Series (James 1) Operating Procedure 400 - Outago of the Jeffrey Energy Center to Hory Tayl Series (James 1) Operating Procedure 400 - Outago of the Jeffrey Energy Center to Hory Tayl Series (James 1) Operating Procedure 400 - Outago of the Jeffrey Energy Center to Hory Tayl Series (James 1) Operating Procedure 400 - Outago of the Jeffrey Energy Center to Hory Tayl Series (James 1) Operating Procedure 400 - Outago of the Jeffrey Energy Center to Hory Tayl Series (James 1) Operating Procedure 400 - Outago of the Jeffrey Energy Center to Hory Tayl Series (James 1) Operating Procedure 400 - Outago of the Jeffrey Energy Center to Hory Tayl Series (James 1) Operating Procedure 400 - Outago of the Jeffrey Energy Center to Hory Tayl Series (James 1) Operating Procedure 400 - Outago of the Jeffrey Energy Center to Hory Tayl Series (James 1) Operating Procedure 400 - Outago of the Jeffrey Energy Center to Hory Tayl Series (James 1) Operating Procedure 400 - Outago of the Jeffrey Energy Center to Hory Tayl Series (James 1) Operating Procedure 400 - Outago of the Jeffrey Energy Center to Hory Tayl Series (James 1) Operating Procedure 400 - Outago of the Jeffrey Energy Center to Hory Tayl Series (James 1) Operating Procedure 400 - Outago of the Jeffrey Energy Center to Hory Tayl Series (James 1) Operating Procedure 400 - Outago of the Jeffrey Energy Center to Hory Tayl Series (James 1) Operating Procedure 400 - Outago of the Jeffrey Energy Center to Hory Tayl Series (James 1) Operating Procedure 400 - Outago of the Jeffrey Energy Center to Hory Tayl Series (James 1) Operating Procedure 400 - Outago of the Jeffrey Energy Center to Hory Tayl Series (James 1) Operating Procedure 400 - Outago of the Jeffrey Energy Center to Hory Tayl Series (James 1) Operating Procedure 400 - Outago of the Jeffrey Energy Center to Hory Tayl Series (James 1) Operating Procedure 400 - Outago of the Jeffrey Energy Center to Hory	Case	Area	Branch Overload	<mw></mw>	Loading	Loading	%TDF	Loading	%TDF	Outaged Branch Causing Overload	<mw></mw>		Cost
B6FA WERE-WERE 56851 AUBURN 6 230 58852 JEC 6 230 1 566 109.4 07.3 11.0800 105.4 0.0830 56765 HOYT 7 345 56766 JECN 7 345 0 3454\times 7.0												Operating Procedure 400 - Outage	
Operating Procedure 803 - Outage Operating Procedure 404 - Outage Operating Proc	0654	WEDE WEDE	ECOE4 ALIDLIDA C 220 ECOE2 IEC C 220 4	EGE	105.4	107.2	11 0000	105.4	0.0630	F6765 HOVE 7 245 56766 IFON 7 245 4	_		
OBFA WERE-WERE 57152 CIRCLVL 3 115 57165 HTI JCT 3 115 1 95 123.6 128.1 4.2680 123.8 0.2340 56765 HOYT 7 345 56772 STRANGR 7 3 45 1 0 of the Hoyt to Stranger 3 45 kV line Tell 119.4 4.2680 114.9 0.2340 56765 HOYT 7 345 56772 STRANGR 7 3 45 1 0 of the Hoyt to Stranger 3 45 kV line Tell 119.4 4.2680 114.9 0.2340 56765 HOYT 7 345 56772 STRANGR 7 3 45 1 0 of the Hoyt to Stranger 3 45 kV line Tell 119.4 4.2680 114.9 0.2340 56765 HOYT 7 345 56772 STRANGR 7 3 45 1 0 of the Hoyt to Stranger 3 45 kV line Tell 119.4 0.2340	UOFA	WERE-WERE	5065 I AUBURN 6 230 50652 JEC 6 230 I	303	105.4	107.3	11.0600	105.4	0.0630	50705 HOTT 7 345 50700 JECN 7 345 T	U		עפו
GRA WERE-WERE 57152 CIRCLVL 3 115 57165 HTI JCT 3 115 96 123.6 128.1 4.2880 123.8 0.2340 56765 HOYT 7 345 56772 STRANGR 7 345 1 0 of the Hoyt to Stranger 345 KV line TBI May be relieved due to Wester Operating Procedure 80.3 Outage of the Hoyt to Stranger 345 KV line TBI May be relieved due to Wester Operating Procedure 80.3 Outage of the Hoyt to Stranger 345 KV line TBI May be relieved due to Wester Operating Procedure 80.3 Outage of the Hoyt to Stranger 345 KV line TBI May be relieved due to Wester Operating Procedure 80.3 Outage of the Hoyt to Stranger 345 KV line TBI May be relieved due to Wester Operating Procedure 80.3 Outage of the Hoyt to Stranger 345 KV line TBI May be relieved due to Wester Operating Procedure 80.3 Outage of the Hoyt to Stranger 345 KV line TBI May be relieved due to Wester Operating Procedure 80.3 Outage of the Hoyt to Stranger 345 KV line TBI May be relieved due to Wester Operating Procedure 80.3 Outage of the Hoyt to Stranger 345 KV line TBI May be relieved due to Wester Operating Procedure 80.3 Outage of the Hoyt to Stranger 345 KV line TBI May be relieved due to Wester Operating Procedure 80.3 Outage of the Hoyt to Stranger 345 KV line TBI May be relieved due to Wester Operating Procedure 40.0 Outage of the Jeffrey Energy Center to Hoyt 345 KV line TBI May be relieved due to Wester Operating Procedure 40.0 Outage of the Jeffrey Energy Center to Hoyt 345 KV line TBI May be relieved due to Wester Operating Procedure 40.0 Outage of the Jeffrey Energy Center to Hoyt 345 KV line TBI May be relieved due to Wester Operating Procedure 40.0 Outage of the Jeffrey Energy Center to Hoyt 345 KV line TBI May be relieved due to Wester Operating Procedure 80.3 Outage of the Jeffrey Energy Center to Hoyt 345 KV line TBI May be relieved due to Wester Operating Procedure 80.0 Outage of the Jeffrey Energy Center to Hoyt 345 KV line TBI May be relieved due to Wester Operating Procedure 80.0 Outage of the Hoyt													
OFFICIAL	06FA	WERE-WERE	57152 CIRCLVL 3 115 57165 HTI JCT 3 115 1	95	123.6	128.1	4.2680	123.8	0.2340	56765 HOYT 7 345 56772 STRANGR 7 345 1	0		TBD
G6FA WERE-WERE 57152 CIRCLVL 3 115 57331 KING HL3 115 1 90 114 6 119.4 4.2880 114.9 0.2340 56765 HOYT 7 345 56772 STRANGR 7 345 0 of the Holy to Stranger 345 KV line TBI G6FA WERE-WERE 57217 KELLY 3 115 57331 KING HL3 115 1 88 111.2 116.0 4.2880 111.4 0.2340 56765 HOYT 7 345 56772 STRANGR 7 345 0 of the Holy to Stranger 345 KV line TBI G6FA WERE-WERE 56851 AUBURN 9 230 "B122 AUBRN77X 1 306 99.7 10.9 3.8370 99.7 0.1700 56765 HOYT 7 345 56766 JECN 7 345 1 0 Solution Undetermined TBI G6FA WERE-WERE 57527 XELLY 3 115 57331 KING HL3 115 99.3 10.5 3.8370 99.3 0.1700 56765 HOYT 7 345 56766 JECN 7 345 1 0 Solution Undetermined TBI G6FA WERE-WERE 57523 166TH 3 115 57244 JARBALO 3 115 97 92.5 97.0 4.3900 NA* 57252 MIDLAND 3 115 57261 PENTAGN 3 115 0 Solution Undetermined TBI G6FA WERE-WERE 57152 CIRCLVL 3 115 57331 KING HL3 115 95 123.2 126.4 3.0450 123.4 0.2350 56765 HOYT 7 345 56772 STRANGR 7 345 0 Of the Holy to Stranger 345 KV line TBI G6FA WERE-WERE 57152 CIRCLVL 3 115 57331 KING HL3 115 90 116.4 119.8 3.0450 113.5 0.2350 56765 HOYT 7 345 56772 STRANGR 7 345 0 Of the Holy to Stranger 345 KV line TBI G6FA WERE-WERE 57152 CIRCLVL 3 115 57331 KING HL3 115 90 116.4 119.8 3.0450 113.5 0.2350 56765 HOYT 7 345 56772 STRANGR 7 345 0 Of the Holy to Stranger 345 KV line TBI G6FA WERE-WERE 57152 CIRCLVL 3 115 57331 KING HL3 115 90 116.4 119.8 3.0450 113.5 0.2350 56765 HOYT 7 345 56772 STRANGR 7 345 0 Of the Holy to Stranger 345 KV line TBI G6FA WERE-WERE 57152 CIRCLVL 3 115 57331 KING HL3 115 90 116.4 119.8 3.0450 113.5 0.2350 56765 HOYT 7 345 56772 STRANGR 7 345 0 Of the Holy to Stranger 345 KV line TBI G6FA WERE-WERE 56765 HOYT 7 345 56766 JECN 7 345 1 O Solution Undetermined TBI G6FA WERE-WERE 56765 HOYT 7 345 56766 JECN 7 345 1 O Solution U													
May be relieved due to Westar Operating Procedure 803 - Outage of the Hoffy to Stranger 345 EV line of the Hory to Stranger 345 EV line	06FA	WERE-WERE	57152 CIRCLVL 3 115 57331 KING HL3 115 1	90	114 6	119 4	4 2680	114 9	0 2340	56765 HOYT 7 345 56772 STRANGR 7 345 1	0		TBD
Operating Procedure 803 - Outage of the Hoty to Stranger 345 kV line Tell	00171	WERE WERE	07 102 GINGEVE 8 118 97881 KING TIES 118 1	50	114.0	110.4	4.2000	114.0	0.2040	307001101173403077201174401773401		, ,	100
06FA WERE-WERE 57151 AUBURN 3 115 'B122 AUBRN77X 11 306 99.7 100.9 3.8370 99.7 0.1700 56765 HOYT 7 345 56766 JECN 7 345 1 5733 I KING HL3 115 1 95 123.2 126.4 3.0450 116.7 0.2350 56765 HOYT 7 345 56772 STRANGR 7 345 1 100 Solution Undetermined Tible Operating Procedure 803 - Outage of the Jeffey Energy Center to Hoyt Operating Procedure 803 - Outage of the Jeffey Energy Center to Hoyt Operating Procedure 400 - Outage of the Jeffey Energy Center to Hoyt 345kV Line Tible Operating Procedure 400 - Outage of the Jeffey Energy Center to Hoyt 345kV Line Tible Operating Procedure 400 - Outage of the Jeffey Energy Center to Hoyt 345kV Line Tible Operating Procedure 400 - Outage of the Jeffey Energy Center to Hoyt 345kV Line Tible Operating Procedure 400 - Outage of the Jeffey Energy Center to Hoyt 345kV Line Tible Operating Procedure 400 - Outage of the Jeffey Energy Center to Hoyt 345kV Line Tible Operating Procedure 400 - Outage of the Jeffey Energy Center to Hoyt 345kV Line Tible Operating Procedure 400 - Outage of the Jeffey Energy Center to Hoyt Start Operating Procedure 400 - Outage of the Jeffey Energy Center to Hoyt 345kV Line Tible Operating Procedure 400 - Outage of the Jeffey Energy Center to Hoyt Start Operating Procedure 400 - Outage of the Hoyt to Stranger 345k V line Tible Operating Procedure 803 - Outage of the Hoyt to Stranger 345k V line Tible Operating Procedure 803 - Outage of the Hoyt to Stranger 345k V line Tible Operating Procedure 803 - Outage of the Hoyt to Stranger 345k V line Tible Operating Procedure 803 - Outage of the Hoyt to Stranger 345k V line Tible Operating Procedure 803 - Outage of the Hoyt to Stranger 345k V line Tible Operating Procedure 803 - Outage of the Hoyt to Stranger 345k V line Tible Operating Procedure 803 - Outage of the Jeffey Energy Center to Hoyt Stranger 345k V line Tible Operating Procedure 400 - Outage of the Jeffey Energy Center to Hoyt Stranger 345k V line Tible Operating Procedure 400 - Outage of the Jeffey Energy Center to Hoyt Stranger 345k V line Tible Operati													
DeFA WERE-WERE 56851 AUBURN 6 230 'B122 AUBRN77X 1 1 306 99.7 100.9 3.8370 99.7 0.1700 56765 HOYT 7 345 56766 JECN 7 345 1 27 27 345 KING HL3 115 1 90 116.4 119.8 3.0450 113.5 0.2350 56765 HOYT 7 345 56772 STRANGR 7 345 1 100 Solution Undetermined Of the Hoffer Stranger 345 KV line Till Stranger 345 KV	06FA	WERE-WERE	57217 KELLY 3 115 57331 KING HL3 115 1	88	111.2	116.0	4.2680	111.4	0.2340	56765 HOYT 7 345 56772 STRANGR 7 345 1	0		TBD
OFFA WERE-WERE S6851 AUBURN 6 230 *B122 AUBRN77X 11 306 99.7 100.9 3.8370 99.7 0.1700 56765 HOYT 7 345 56766 JECN 7 345 1 2													
May be relieved due to Westar												of the Jeffrey Energy Center to Hoyt	
Operating Procedure 400 - Outage of the Jeffey Energy Center to Hoy 1 to Stranger 345 kV line Tisl	06FA	WERE-WERE	56851 AUBURN 6 230 *B122 AUBRN77X 1 1	306	99.7	100.9	3.8370	99.7	0.1700	56765 HOYT 7 345 56766 JECN 7 345 1	27		TBD
D6FA WERE-WERE S7151 AUBURN 3 115 *B122 AUBRN77X 1 307 99.3 10.5 3.8370 99.3 0.1700 56765 HOYT 7 345 56766 JECN 7 345 58 345N/Line TBI 0.06FA WERE-WERE 5763 166TH 3 115 57244 JARBALO 3 115 1 97 92.5 97.0 4.3900 N/A* N/A* 57252 MIDLAND 3 115 57261 PENTAGN 3 115 1 100 Solution Undetermined TBI 0.06WP WERE-WERE 57152 CIRCLVL 3 115 57165 HTI JCT 3 115 1 95 123.2 126.4 3.0450 116.7 0.2350 56765 HOYT 7 345 56772 STRANGR 7 345 1 0.0 May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line TBI 0.06WP WERE-WERE 57152 CIRCLVL 3 115 57331 KING HL3 115 1 90 116.4 119.8 3.0450 113.5 0.2350 56765 HOYT 7 345 56772 STRANGR 7 345 1 0.0 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000 0.000000 0.000000 0.0000000 0.0000000 0.00000000													
OFFA WERE-WERE S6765 HOYT 7 345 56766 JECN 7 345 1 1076 88.9 92.5 27.0270 90.0 0.3440 56766 JECN 7 345 56770 MORRIS 7 345 1 100 Solution Undetermined TBI	0054		==454 AURURN 0 445 48 400 AURURN == V 4 4			400 =			0.4700				
06WP WERE-WERE 57152 CIRCLVL 3 115 57331 KING HL3 115 1 90 116.4 119.8 3.0450 113.5 0.2350 56765 HOYT 7 345 56772 STRANGR 7 345 1 00 May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line Departing Procedure 803 - Outage Of the Hoyt to Stranger 345 kV line Departing Procedure 803 - Outage Of the Hoyt to Stranger 345 kV line Departing Procedure 803 - Outage Of the Hoyt to Stranger 345 kV line Departing Procedure 803 - Outage Of the Hoyt to Stranger 345 kV line Departing Procedure 803 - Outage Of the Hoyt to Stranger 345 kV line Departing Procedure 803 - Outage Of the Hoyt to Stranger 345 kV line Departing Procedure 803 - Outage Of the Hoyt to Stranger 345 kV line Departing Procedure 803 - Outage Of the Hoyt to Stranger 345 kV line Departing Procedure 803 - Outage Of the Hoyt to Stranger 345 kV line Departing Procedure 803 - Outage Of the Hoyt to Stranger 345 kV line Departing Procedure 803 - Outage Of the Hoyt to Stranger 345 kV line Departing Procedure 803 - Outage Of the Hoyt to Stranger 345 kV line Departing Procedure 803 - Outage Of the Hoyt to Stranger 345 kV line Departing Procedure 803 - Outage Of the Hoyt to Stranger 345 kV line Departing Procedure 803 - Outage Of the Hoyt to Stranger 345 kV line Departing Procedure 803 - Outage Of the Hoyt to Stranger 345 kV line Departing Procedure 803 - Outage Of the Hoyt to Stranger 345 kV line Departing Procedure 803 - Outage Of the Hoyt to Stranger 345 kV line Departing Procedure 803 - Outage Of the Hoyt to Stranger 345 kV line Departing Procedure 803 - Outage Of the Hoyt to Stranger 345 kV line Departing Procedure 803 - Outage Of the Hoyt to Stranger 345 kV line Departing Procedure 803 - Outage Of the Hoyt to Stranger 345 kV line Departing Procedure 803 - Outage Of the Hoyt to Stranger 345 kV line Departing Procedure 803 - Outage Of the Hoyt to Stranger 345 kV line Departing Procedure 803 - Outage Of the Hoyt to Stranger 345 kV line Departing Procedure 803 - Outage Of the Hoyt to Stranger 345 kV line Departing Procedure		1		1									
May be relieved due to Westar Operating Procedure 803 - Outage of the Hotyl to Stranger 345 to 1 May be relieved due to Westar Operating Procedure 803 - Outage of the Hotyl to Stranger 345 to 1 May be relieved due to Westar Operating Procedure 803 - Outage of the Hotyl to Stranger 345 to 1 May be relieved due to Westar Operating Procedure 803 - Outage of the Hotyl to Stranger 345 to 1 May be relieved due to Westar Operating Procedure 803 - Outage of the Hotyl to Stranger 345 to 1 May be relieved due to Westar Operating Procedure 803 - Outage of the Hotyl to Stranger 345 to 1 May be relieved due to Westar Operating Procedure 803 - Outage of the Hotyl to Stranger 345 to 1 May be relieved due to Westar Operating Procedure 803 - Outage of the Hotyl to Stranger 345 to 1 May be relieved due to Westar Operating Procedure 803 - Outage of the Hotyl to Stranger 345 to 1 May be relieved due to Westar Operating Procedure 803 - Outage of the Hotyl to Stranger 345 to 1 May be relieved due to Westar Operating Procedure 804 outage of the Hotyl to Stranger 345 to 1 May be relieved due to Westar Operating Procedure 400 - Outage of the Hotyl Stranger 345 to 1 May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 345KV Line TBI OTSP WERE-WERE S6851 AUBURN 6 230 56852 JEC 6 230 to 1 S64 113.0 116.1 17.5660 113.1 0.1860 S6765 HOYT 7 345 56766 JECN 7 345 to 1 May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 345KV Line TBI OPERATION PROCEDURE 345KV Line				1									
Description	06FA	WERE-WERE	57233 1661H 3 115 57244 JARBALO 3 115 1	97	92.5	97.0	4.3900	N/A*	N/A*	57252 MIDLAND 3 115 57261 PENTAGN 3 115 1	100		TBD
Dew Were-Were 57152 CIRCLVL 3 115 57165 HTI JCT 3 115 1 95 123.2 126.4 3.0450 123.4 0.2350 56765 HOYT 7 345 56772 STRANGR 7 345 1 0 of the Hoy to Stranger 345 kV line TBI													
06WP WERE-WERE 57152 CIRCLVL 3 115 57331 KING HL3 115 1 90 116.4 119.8 3.0450 116.7 0.2350 56765 HOYT 7 345 56772 STRANGR 7 345 1 0 Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line TBI May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 10 STRANGR 7 345 1 0 Solution Undetermined TBI May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 10 STRANGR 7 345 1 0 Solution Undetermined TBI May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 10 STRANGR 7 345 1 0 Solution Undetermined TBI May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 10 STRANGR 7 345 1 0 Solution Undetermined TBI May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 10 STRANGR 7 345 1 0 Solution Undetermined TBI May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 345kV Line TBI May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 345kV Line TBI May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 10 Solution Undetermined TBI May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 10 Solution Undetermined TBI May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 10 Solution Undetermined TBI May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 10 Solution Undetermined TBI May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 10 Solution Undetermined TBI May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 10 Solution Undetermined TBI May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 10	06WP	WERE-WERE	57152 CIRCLVL 3 115 57165 HTI JCT 3 115 1	95	123.2	126.4	3.0450	123.4	0.2350	56765 HOYT 7 345 56772 STRANGR 7 345 1	0		TBD
Dew Were-Were 57152 CIRCLVL 3 115 57331 KING HL3 115 90 116.4 119.8 3.0450 116.7 0.2350 56765 HOYT 7 345 56772 STRANGR 7 345 0 Of the Hoyt to Stranger 345 kV line TBI													
06WP WERE-WERE 57217 KELLY 3 115 57331 KING HL3 115 1 89 113.2 116.6 3.0450 113.5 0.2350 56765 HOYT 7 345 56772 STRANGR 7 345 1 0 May be relieved due to Westar Operating Procedure 803 - Outage of the Hoty to Stranger 345 kV line TBI OFFI WERE-WERE 56765 HOYT 7 345 56766 JECN 7 345 1 100 Solution Undetermined TBI May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 345 kV Line TBI OFFI WERE-WERE 56851 AUBURN 6 230 *B122 AUBRN77X 1 1 303 123.5 125.1 4.8250 123.5 0.2280 56765 HOYT 7 345 56766 JECN 7 345 1 0 May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Center to Hoyt 345kV Line TBI OFFI WERE-WERE 56851 AUBURN 6 230 56852 JEC 6 230 1 564 113.0 116.1 17.5660 113.1 0.1860 56765 HOYT 7 345 56766 JECN 7 345 1 0 Solution Undetermined TBI OFFI WERE-WERE 56920 TECHILL5 161 *B012 1 1 69 110.1 116.6 4.4090 110.2 0.0770 57163 HOYT 3 115 57165 HTI JCT 3 115 1 0 Solution Undetermined TBI OFFI WERE-WERE OPERATION OF THE JEFFREY Enter to Hoyt Undetermined TBI DETAILS OFFI TO HOYT TO HOY TO	OGWD	WEDE WEDE	57452 CIDCLVI 2 445 57224 KINC HI 2 445 4	00	116.4	110.0	2 0450	116 7	0.2250	56765 HOVT 7 245 56772 STDANICD 7 245 4	0		TDD
06WP WERE-WERE 57217 KELLY 3 115 57331 KING HL3 115 1 89 113.2 116.6 3.0450 113.5 0.2350 56765 HOYT 7 345 56772 STRANGR 7 345 1 0 Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line TBI OLY 10 Solution Undetermined TBI ORSP WERE-WERE 56851 AUBURN 6 230 56852 JEC 6 230 1 564 113.0 116.1 17.5660 113.1 0.1860 56765 HOYT 7 345 56766 JECN 7 345 1 0 Solution Undetermined TBI OLY 10 Solution Undetermined TBI OLY 11	UOVVP	WERE-WERE	5/152 CIRCLVL 3 115 5/331 KING HL3 115 1	90	110.4	119.0	3.0450	110.7	0.2350	50705 HUTT 7 345 50772 STRAINGR 7 345 T	U	, ,	עמו
06WP WERE-WERE 57217 KELLY 3 115 57331 KING HL3 115 1 89 113.2 116.6 3.0450 113.5 0.2350 56765 HOYT 7 345 56772 STRANGR 7 345 1 0 of the Hoyt to Stranger 345 kV line TBI 06WP WERE-WERE 56765 HOYT 7 345 56766 JECN 7 345 1 10075 96.6 96.9 3.0200 96.6 0.3590 56766 JECN 7 345 56770 MORRIS 7 345 1 100 Solution Undetermined TBI May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 0.2280 56765 HOYT 7 345 56766 JECN 7 345 1 0 May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 07SP WERE-WERE 56851 AUBURN 6 230 56852 JEC 6 230 1 564 113.0 116.1 17.5660 113.1 0.1860 56765 HOYT 7 345 56766 JECN 7 345 1 0 May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 07SP WERE-WERE 56851 AUBURN 6 230 56852 JEC 6 230 1 564 113.0 116.1 17.5660 113.1 0.1860 56765 HOYT 7 345 56766 JECN 7 345 1 0 Solution Undetermined TBI 07SP WERE-													
May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Center to Hoyt Safsky Line TBI	06WP	WERE-WERE	57217 KELLY 3 115 57331 KING HL3 115 1	89	113.2	116.6	3.0450	113.5	0.2350	56765 HOYT 7 345 56772 STRANGR 7 345 1	0		TBD
O7SP WERE-WERE 56851 AUBURN 6 230 *B122 AUBRN77X 1 1 303 123.5 125.1 4.8250 123.5 0.2280 56765 HOYT 7 345 56766 JECN 7 345 1 0 Gerating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 345KV Line TBI	06WP	WERE-WERE	56765 HOYT 7 345 56766 JECN 7 345 1	1075	96.6	96.9	3.0200	96.6	0.3590	56766 JECN 7 345 56770 MORRIS 7 345 1	100		TBD
07SP WERE-WERE 56851 AUBURN 6 230 *B122 AUBRN77X 1 1 303 123.5 125.1 4.8250 123.5 0.2280 56765 HOYT 7 345 56766 JECN 7 345 1 0 of the Jeffrey Energy Center to Hoyt 345kV Line TBI 07SP WERE-WERE 56851 AUBURN 6 230 56852 JEC 6 230 1 564 113.0 116.1 17.5660 113.1 0.1860 56765 HOYT 7 345 56766 JECN 7 345 1 0 May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 07SP WERE-WERE 56851 AUBURN 6 230 56852 JEC 6 230 1 564 113.0 116.1 17.5660 113.1 0.1860 56765 HOYT 7 345 56766 JECN 7 345 1 0 May be relieved due to Hoyt 07SP WERE-WERE 56920 TECHILL5 161 *B012 1 1 69 110.1 116.6 4.4090 110.2 0.0770 57163 HOYT 3 115 57165 HTI JCT 3 115 1 0 Solution Undetermined TBI May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0													
May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt TBI													
07SP WERE-WERE 56851 AUBURN 6 230 56852 JEC 6 230 1 564 113.0 116.1 17.5660 113.1 0.1860 56765 HOYT 7 345 56766 JECN 7 345 1 0 Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt TBI 07SP WERE-WERE 56920 TECHILL5 161 *B012 1 1 69 110.1 116.6 4.4090 110.2 0.0770 57163 HOYT 3 115 57165 HTI JCT 3 115 1 0 Solution Undetermined TBI Were-Were May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt 0 <td>07SP</td> <td>WERE-WERE</td> <td>56851 AUBURN 6 230 *B122 AUBRN77X 1 1</td> <td>303</td> <td>123.5</td> <td>125.1</td> <td>4.8250</td> <td>123.5</td> <td>0.2280</td> <td>56765 HOYT 7 345 56766 JECN 7 345 1</td> <td>0</td> <td></td> <td>TBD</td>	07SP	WERE-WERE	56851 AUBURN 6 230 *B122 AUBRN77X 1 1	303	123.5	125.1	4.8250	123.5	0.2280	56765 HOYT 7 345 56766 JECN 7 345 1	0		TBD
07SP WERE-WERE 56851 AUBURN 6 230 56852 JEC 6 230 1 564 113.0 116.1 17.5660 113.1 0.1860 56765 HOYT 7 345 56766 JECN 7 345 1 0 of the Jeffrey Energy Center to Hoyt 345 VLine TBI 07SP WERE-WERE 56920 TECHILL5 161 *B012 1 1 69 110.1 116.6 4.4090 110.2 0.0770 57163 HOYT 3 115 57165 HTI JCT 3 115 1 0 Solution Undetermined TBI May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt													
07SP WERE-WERE 56920 TECHILL5 161 *B012 1 1 69 110.1 116.6 4.4090 110.2 0.0770 57163 HOYT 3 115 57165 HTI JCT 3 115 1 0 Solution Undetermined TBI May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt												of the Jeffrey Energy Center to Hoyt	
May be relieved due to Westar Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt		1	56851 AUBURN 6 230 56852 JEC 6 230 1	1 1						56765 HOYT 7 345 56766 JECN 7 345 1		345kV Line	TBD
Operating Procedure 400 - Outage of the Jeffrey Energy Center to Hoyt	07SP	WERE-WERE	56920 TECHILL5 161 *B012 1 1	69	110.1	116.6	4.4090	110.2	0.0770	57163 HOYT 3 115 57165 HTI JCT 3 115 1	0		TBD
of the Jeffrey Energy Center to Hoyt													
107SP IWERE-WERE 57151 AUBURN 3 115 *B122 AUBRN77X 1.1 306 122 2 123 8 4 8250 122 3 0 2280 56765 HOYT 7 345 56766 JECN 7 345 1 0 345k/ Line TRI												of the Jeffrey Energy Center to Hoyt	
	07SP	WERE-WERE	57151 AUBURN 3 115 *B122 AUBRN77X 1 1	306	122.2	123.8	4.8250	122.3	0.2280	56765 HOYT 7 345 56766 JECN 7 345 1	0	345kV Line	TBD
May be relieved due to Westar Operating Procedure 803 - Outage													
	07SP	WERE-WERE	57152 CIRCLVL 3 115 57165 HTI JCT 3 115 1	95	113.3	117.1	3.6090	113.6	0.2430	56765 HOYT 7 345 56772 STRANGR 7 345 1	0		TBD

<u>Table 3</u> – SPP facility overloads identified for the WR to ERCOTE transfer using Scenario 3

State Color Colo								0					
May be relieved due to Wester Procession	Study	From Area - To		Rating	BC %	TC %					ATC		Estimated
O'RSP WERE-WERE 57153 COLINE 3 115 57162 HOOKLOT 3 115 1 5 1 6 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Case	Area	Branch Overload	<mw></mw>	Loading	Loading	%TDF	Loading	%TDF	Outaged Branch Causing Overload	<mw></mw>		Cost
## OTSP WERE-WERE ## S7183 COLINE 3 115 57192 HOOKLOT 3 115 1 15 1 15 1 15 1 15 1 15 1 15 1													
## PRE-WERE STISS COLINE 3 115 ST182 HOCKLCT 3 115 115 91 107.5 114.8 6480 NA* MA* ST180 TECE 3 115 ST182 TECHILE 3 115 0 (TEC) to Texment HII 115 kV Ine TBD													
10.50 10.5	07SP	WERE-WERE	57153 COLINE 3 115 57192 HOOKJCT 3 115 1	91	107.5	114.8	6.6480	N/A*	N/A*	57180 TEC E 3 115 57182 TECHILE 3 115 1	0	(TEC) to Tecumseh Hill 115 kV line.	TBD
## OTSP WERE-WERE \$7180 TEC 3 115 57182 HOOKIGT 3 115 1 15 1 0 0 10.0 11.0 0.0770 0.													
ORSP WERE-WERE ST182 TECHLE 3 115 79182 TECHLE 3 115 15 90 108 8 116.0 117.010 NAY NAY ST180 TECE 3 115 57182 TECHLE 3 115 15 90 109.9 116.3 4.090 10.0 0.0770 57183 HOYT 3 115 57182 TECHLE 3 115 1 90 109.9 116.3 4.090 10.0 0.0770 57183 HOYT 3 115 57182 TECHLE 3 115 1 90 98.8 104.9 14.1550 NAY NAY 56765 HOYT 7 345 56772 STRANGR 7 345 1 77 78 78 78 78 78 78													
07SP WERE-WERE 57180 TEC E 3 115 57182 TECHILE 3 115 1 232 98.8 104.9 14.1550 NAA NAA 56765 HOYT 7 345 56772 STRANGR 7 345 1 20 Cherting Procedure 803 - Outage of the Hoyt to Stranger 345 kV line TBD May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line TBD May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line TBD May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line TBD May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line TBD May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line TBD May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt to Stranger 345 kV line TBD May be relieved due to Westar Operating Procedure 803 - Outage of the Hoyt Stranger 345 kV line TBD May be relieved due to Westar Operating Procedure 400 - Outage of the Joffey Energy Centre for Hoyt Jaffey E	07SP	WERE-WERE	57180 TEC E 3 115 57192 HOOKJCT 3 115 1	159	108.6	116.0	11.7010	N/A*	N/A*	57180 TEC E 3 115 57182 TECHILE 3 115 1	0		TBD
## OFFICE ## OFF	07SP	WERE-WERE	57182 TECHILE 3 115 *B012 1 1	69	109.9	116.3	4.4090	110.0	0.0770	57163 HOYT 3 115 57165 HTI JCT 3 115 1	0	Solution Undetermined	TBD
## PRE-WERE \$7180 TECE 3 115 \$7182 TECHILE 3 115 1 232 98.8 14.9 14.1550 NAN NAN 6765 HOYT 7 345 56772 STRANGR 7 345 2 0 of the Hoy to Stranger 345 kV line TED													
07SP WERE-WERE 57152 CIRCLVL 3 115 57331 KING HL3 115 1 90 96.9 100.9 3.6090 97.2 0.2430 56765 HOYT 7 345 56763 JECN 7 345 1 100 500 for Hory to Stranger 345 KV line TBD TBD WERE-WERE 5685 JEC 6 230 58861 EMANHATE 230 1 443 90.2 91.8 7.3640 90.2 0.0840 56765 HOYT 7 345 56766 JECN 7 345 1 100 May be relieved due to Wester Operating Procedure 1203 - Outage of the Hory to Stranger 345 KV line TBD Ware-WERE 57153 COLINE 3 115 57331 KING HL3 115 1 89 92.6 96.8 3.6090 92.9 0.2430 56765 HOYT 7 345 56772 STRANGR 7 345 1 100 May be relieved due to Wester Operating Procedure 1203 - Outage of the Jeffrey Energy Center (TEC)) Technical Procedure 1203 - Outage of the Jeffrey Energy Center (TEC)) Technical Procedure 1203 - Outage of the Jeffrey Energy Center (TEC)) Technical Procedure 1203 - Outage of the Jeffrey Energy Center (TEC)) Technical Procedure 1203 - Outage of the Jeffrey Energy Center (TEC)) Technical Procedure 1203 - Outage of the Jeffrey Energy Center (TEC)) Technical Procedure 1203 - Outage of the Jeffrey Energy Center (TEC)) Technical Procedure 1203 - Outage of the Jeffrey Energy Center (TEC)) Technical Procedure 1203 - Outage of the Jeffrey Energy Center (TEC)) Technical Procedure 1203 - Outage of the Jeffrey Energy Center (TEC)) Technical Procedure 1203 - Outage of the Jeffrey Energy Center (TEC)) Technical Procedure 1203 - Outage of the Jeffrey Energy Center (TEC)) Technical Procedure 1203 - Outage of the Jeffrey Energy Center (TEC)) Technical Procedure 1203 - Outage of the Jeffrey Energy Center (TEC)) Technical Procedure 1203 - Outage of the Jeffrey Energy Center (TEC) Technical Procedure 1203 - Outage of the Jeffrey Energy Center (TEC) Technical Procedure 1203 - Outage of the Jeffrey Energy Center (TEC) Technical Procedure 1203 - Outage of the Jeffrey Energy Center (TEC) Technical Procedure 1203 - Outage of the Jeffrey Energy Center (TEC) Technical Procedure 1203 - Outage of the Jeffrey Energy Center (TEC) Technical Procedure 1203 - Outage of the Jeffrey Energy Center (TEC) Technical Procedure 1203 - Outa	0700	WEDE WEDE	57400 TEO E 2 445 57402 TEOLIII E 2 445 4	222	00.0	104.0	14 1550	NI/A*	NI/A*	56765 HOVE 7 245 56772 SEDANCE 7 245 4	20		TDD
## PRE-WERE 57152 CIRCLVL 3 115 57331 KING HL3 1151 90 96.9 100.9 3.6090 97.2 0.2430 56765 HOYT 7 345 56772 STRANGR 7 345 1 78 Operating Procedure 803 - Outage of the Hoyt to Stranger 436 KV line TBD	0/35	WERE-WERE	37 180 TEC E 3 113 37 182 TECHILE 3 113 1	232	90.0	104.9	14.1550	N/A	N/A	30703 HOTT 7 343 30772 STRANGR 7 343 T	20	, ,	IBD
## WERE-WERE 57152 CIRCLVL 3 115 57331 KING HL3 115 90 96.9 100.9 3.6090 97.2 0.2430 56765 HOYT 7 345 56776 STRANGR 7 345 78 of the Hoyt to Stranger 345 kV line TBD ### WERE-WERE 56765 HOYT 7 345 56766 JECN 7 345 56766 JECN 7 345 56760 JECN 7 345 56766												Operating Procedure 803 - Outage	
May be relieved due to Westard	07SP	WERE-WERE	57152 CIRCLVL 3 115 57331 KING HL3 115 1	90	96.9	100.9	3.6090	97.2	0.2430	56765 HOYT 7 345 56772 STRANGR 7 345 1	78		TBD
OFF WERE-WERE 56852 JEC 6 230 56861 EMANHAT6 230 1 443 90.2 91.8 7.3640 90.2 0.0840 56765 HOYT 7 345 56766 JECN 7 345 1 100 Foreign Procedure 400 - Outlage of the Jeffrey Energy Center to Hoy TBD Affair To Table 1 100 Foreign Procedure 1203 - Outlage of the Tecumseh Hill 115 KV Line TBD 115 S7182 TECHILE 3 115 1 100 Foreign Procedure 1203 - Outlage of the Hoyt Los Stranger 345 KV line TBD 115 KV	07SP	WERE-WERE	56765 HOYT 7 345 56766 JECN 7 345 1	1075	92.5	95.8	34.7390	92.6	0.5780	56766 JECN 7 345 56770 MORRIS 7 345 1	100	Solution Undetermined	TBD
OFSP WERE-WERE 56852 JEC 6 230 56861 EMANHATG 230 1 443 90.2 91.8 7.3640 90.2 0.0840 56765 HOYT 7 345 56766 JECN 7 345 1 100 of the Jeffrey Energy Center to Hoyd 345KV Line TBD May be relieved due to Westart Operating Procedure 803 - Outage of the Tecumseh Energy Center (TEC) to Tecumseh Hill 15 kV Line TBD (TEC) to Tecumseh Hill 16 kV Line TBD (TEC) to Tecumseh Hill 16 kV Line TBD (TEC) to Tecumseh Hill 16 kV Line TBD (TEC) to Tecumseh Hill 17 kV Line TBD (TEC) to Tecumseh Hill 16 kV Line TBD (TEC) to Tecumseh Hill 17 kV Line TBD (TEC) to Tecumseh Hill 18 k													
OFFINAL See													
May be relieved due to Westar Operating Procedure 123 - Oracle of the Horizo Stranger 345 kV line TBD	07SP	WERE-WERE	56852 JEC 6 230 56861 EMANHAT6 230 1	443	90.2	91.8	7.3640	90.2	0.0840	56765 HOYT 7 345 56766 JECN 7 345 1	100		
OTSP WERE-WERE 57153 COLINE 3 115 57182 TECHILE 3 115 1 106 91.1 96.8 5.9290 N/A* N/A* 57180 TECE 3 115 57182 TECHILE 3 115 1 100 (TEC) to Tecunseh Energy Center (TEC) to Tecunseh Hill 15kV Line TBD (TBD) (TEC) to Tecunseh Hill 15kV Line TBD) (Tecunseh Hill 15kV Line TBD) (Tecuns													
OFSP WERE-WERE 57153 COLINE 3 115 57182 TECHILE 3 115 1 106 91.1 96.8 5.9290 N/A* N/A* 57180 TEC E 3 115 57182 TECHILE 3 115 1 100 (TEC) to Tecumseh Hill 115k V Line TBD												Operating Procedure 1203 - Outage	
OTSP WERE-WERE													
O7SP WERE-WERE 57217 KELLY 3 115 57331 KING HL3 115 1 89 92.6 96.6 3.6090 92.9 0.2430 56765 HOYT 7 345 56772 STRANGR 7 345 1 100 Operating Procedure 803 - Outage of the Hoyt to Stranger 345 KV line TBD See previous upgrade specified for facility in scenario 1 and the Hoyt to Stranger 345 KV line TBD See previous upgrade specified for facility in scenario 1 and the Hoyt to Stranger 345 KV line TBD See previous upgrade specified for facility in scenario 1 and the Hoyt to Stranger 345 KV line TBD See previous upgrade specified for facility in scenario 1 and the Hoyt to Stranger 345 KV line TBD See previous upgrade specified for facility in scenario 1 and the Hoyt to Stranger 345 KV line TBD See previous upgrade specified for facility in scenario 1 and the Hoyt to Stranger 345 KV line TBD See previous upgrade specified for facility in scenario 1 and the Hoyt to Stranger 345 KV line TBD See previous upgrade specified for facility in scenario 1 and the Hoyt to Stranger 345 KV line TBD See previous upgrade specified for facility in scenario 1 and the Hoyt to Stranger 345 KV line TBD See previous upgrade specified for facility in scenario 1 and See previous upgrade specified for facility in scenario 1 and See previous upgrade specified for facility in scenario 1 and See previous upgrade specified for facility in scenario 1 and See previous upgrade specified for facility in scenario 1 and See previous upgrade specified for facility in scenario 1 and See previous upgrade specified for facility in scenario 1 and See previous upgrade specified for facility in scenario 1 and See previous upgrade specified for facility in scenario 1 and See previous upgrade specified for facility in scenario 1 and See previous upgrade specified for facility in scenario 1 and See previous upgrade specified for facility in scenario 1 and See previous upgrade specified for facility in scenario 1 and See previous upgrade specified for facility in scenario 1 and See previous upgrade specified for facility in scenario 1 and See previous upgrade sp	07SP	WERE-WERE	57153 COLINE 3 115 57182 TECHILE 3 115 1	106	91.1	96.8	5.9290	N/A*	N/A*	57180 TEC E 3 115 57182 TECHILE 3 115 1	100		TBD
075P WERE-WERE 57217 KELLY 3 115 57331 KING HL3 115 89 92.6 96.6 3.6090 92.9 0.2430 56765 HOYT 7 345 56772 STRANGR 7 345 100 of the Hoyt to Stranger 345 kV line TBD													
07SP WERE-WERE 57236 COOP 3 115 57277 WAKARUS3 115 1 92 88.4 92.0 3.3810 88.4 0.0550 57271 SWLWRNC3 115 57277 WAKARUS3 115 1 100 See previous upgrade specified for facility in scenario 1 See	.=	WEDE WEDE								50705 UOVT = 0.45 50770 OTD ANOD = 0.45 4	400		TDD
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Appendix A

MUST CHOICES IN RUNNING FCITC DC ANALYSIS

CONSTRAINTS/CONTINGENCY INPUT OPTIONS

- 1. AC Mismatch Tolerance 2 MW
- 2. Base Case Rating Rate A
- 3. Base Case % of Rating 90%
- 4. Contingency Case Rating Rate B
- 5. Contingency Case % of Rating 90%
- 6. Base Case Load Flow Do not solve AC
- 7. Convert branch ratings to estimated MW ratings Yes
- 8. Contingency ID Reporting Labels
- 9. Maximum number of contingencies to process 50000

MUST CALCULATION OPTIONS

- 1. Phase Shifters Model for DC Linear Analysis Constant flow for Base Case and Contingencies
- 2. Report Base Case Violations with FCITC Yes
- 3. Maximum number of violations to report in FCITC table 50000
- 4. Distribution Factor (OTDF and PTDF) Cutoff 0.03
- 5. Maximum times to report the same elements 10
- 6. Apply Distribution Factor to Contingency Analysis Yes
- 7. Apply Distribution Factor to FCITC Reports Yes
- 8. Minimum Contingency Case flow change 1 MW
- 9. Minimum Contingency Case Distribution Factor change 0.0
- 10. Minimum Distribution Factor for Transfer Sensitivity Analysis 0.0