

System Impact Study SPP-2003-041-1 For Transmission Service Requested By Cargill - Alliant

From KCPL To ERCOTN

For a Reserved Amount Of 200MW From 1/1/2004 To 1/1/2005

SPP Engineering, Tariff Studies

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System Impact Study

Cargill - Alliant has requested a system impact study for long-term Firm Point-to-Point transmission service from KCPL to ERCOTN. The period of the transaction is from 1/1/2004 to 1/1/2005. The request is for OASIS reservations 482557 and 482560 for a total amount of 200 MW.

The principal objective of this study is to identify constraints on the SPP Regional Tariff System and potential facility upgrades that may be necessary to facilitate the additional 200 MW of service requested.

The KCPL to ERCOTN transfer was studied to determine the facility upgrades required based on the actual queue position of the request with only those higher priority requests in Facility Study mode included in the models. Higher priority requests still in study that have not gone to facility study were not included in the models. The results of the transfer analysis are documented in Table 1 of the report. The results given in Table 1 include upgrades that may be assigned to higher priority requests. The results of this study gives the customer an estimated cost of facility upgrades that may be required in order to accommodate the 200 MW KCPL to ERCOTN request.

SPP used six seasonal models to study the KCPL to ERCOTN 200 MW transfer for the requested service period. The SPP 2003 Series Cases 2003/04 Winter Peak (03WP), 2004 April Min (04AP), 2004 Spring Peak (04G), 2004 Summer Peak (04SP), 2004 Fall Peak (04FA), and 2004/05 Winter Peak (04WP) were used to study the impact of the 200 MW transfer on the SPP system during the requested service period of 1/1/2004 to 1/1/2005. The Spring Peak models apply to April and May, the Summer Peak models apply to June through September, the Fall Peak models apply to October and November, and the Winter Peak models apply to December through March. The chosen base case models were modified to reflect the most current modeling information. The cases were modified to reflect firm transfers during the requested service period in the January 2003 base case series models.

With only the higher priority requests that have signed Facility Study Agreements included in the models, the study results of the KCPL to ERCOTN 200 MW show that a limiting constraint exists. Due to the limiting constraints identified, the Transmission Service Request cannot be granted. 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. The upgrades and cost provided in the System Impact Study are planning estimates only. The final ATC and upgrades required may vary from these results due to the status of higher priority requests, unknown facility upgrades that will be identified during the facility study process, and the final results of the full AC analysis. Execution of a Facility Study Agreement is now required to maintain queue position. The final upgrade solutions and cost assignments will be determined upon the completion of the facility study.

Study Year	From Area - To Area	Branch Over 100% Rate B	Rate B	Outaged Branch Causing Overload	ATC	Solution	Est	timated Cost
03WP	WFEC-WFEC	ACME - FRANKLIN SW 69KV	34	GOLDSBY - OKLAHOMA UNIVERSITY SW 69KV	0	Acme Jct to Acme Sub: Upgrade From 3/0 To 795MCM. Upgrade by WFEC schedules for 04SP	\$	
03WP	WFEC-WFEC	ACME - WEST NORMAN 69KV	38	CANADIAN SW 138/69KV TRANSFORMER	0	Acme Sub > West Norman: Upgrade from 3/0 to 795 ACSR. Upgrade by WFEC scheduled for 04WP	\$	
03WP	WFEC-WFEC	CANADIAN SW - NOBLE 69KV	38	PAOLI 138/69KV TRANSFORMER	188	WFEC Upgrade In-Service Date 04WP	\$	
03WP	AEPW-AEPW	CATOOSA - LYNN LANE EAST TAP 138KV	234	NORTHEAST STA - ONETA 345KV	0	Incorrect rating in the non-summer cases. Rate A/B = 237/265MVA	\$	-
03WP	AEPW-GRRD	CATOOSA 161/138KV TRANSFORMER CKT 1	150	CATOOSA 161/138KV TRANSFORMER CKT 2	0	None - GRDA Mitigation Plan	\$	
03WP	AEPW-GRRD	CATOOSA 161/138KV TRANSFORMER CKT 2	150	CATOOSA 161/138KV TRANSFORMER CKT 1	0	None - GRDA Mitigation Plan	\$	-
03WP	WERE-WERE	EL PASO - GILL ENERGY CENTER SOUTH 138KV	210	EEC NORTH - EEC SOUTH 138KV	0	Solution Undetermined		N/A
03WP	WFEC-WFEC	LITTLE AXE - NOBLE 69KV	26	PAOLI 138/69KV TRANSFORMER	0	Solution Undetermined		N/A
03WP	WERE-WERE	N.A. PHILIPS - N.A. PHILIPS JCT (SOUTH) 115KV	159	EAST MCPHERSON - SUMMIT 230KV	146	Rebuild 0.88 miles and reconductor with 1192.5 ACSR.	\$	417,200
03WP		N.A. PHILIPS JCT (STH) - W MCPHERSON 115KV CKT 1	67	EAST MCPHERSON - SUMMIT 230KV	0	Tear down double circuit, build single circuit with 1192.5 ACSR.		7,800,000
03WP	WFEC-WFEC	PAOLI 138/69KV TRANSFORMER	42	CANADIAN SW 138/69KV TRANSFORMER	0	WFEC Upgrade In-Service Date 04WP	\$	
04AP	WFEC-WFEC	ACME - FRANKLIN SW 69KV	34	CANADIAN SW 138/69KV TRANSFORMER	0	See Previous	\$	
04AP	WFEC-WFEC	ACME - WEST NORMAN 69KV	38	CANADIAN SW 138/69KV TRANSFORMER	69	See Previous	\$	
04AP	SWPS-SWPS	PALODU - RANDALL CO INTRCHNG 115KV	98	AMARILLO S INTRCHNG - SWISHER CO INTRCHNG 230KV	179	Rebuild 9 miles of 115 kV circuit with 397 ACSR on T-0- 102 structures.	\$	1,170,000
04G	WERE-WERE	ANZIO - FORT JCT SWI STA 115KV	92	WEST JCT CITY - WEST JCT CITY JCT (EAST) 115KV	0	WERE Operating Directive 1217, Outage of the Fort JCT - West JCT City 115KV Line	\$	
04G	WERE-WERE	ATHENS SWI STA - COFFEY CO NO. 4 VERNON 69KV	43	BENTON - WOLF CREEK 345KV	0	WERE Operating Directive 300, Outage of the Benton - Wolf Creek 345KV Line	\$	
04G	WERE-WERE	AUBURN ROAD - KEENE 115KV	68	E MANHATTAN - JEC 230KV	0	WERE Operating Directive 900, Outage of the E MANHATTAN - JEC 230KV Line	\$	
04G	WERE-WERE	CHISHOLM - RIPLEY 69KV	128	EEC NORTH - EEC SOUTH 138KV	0	Solution Undetermined		N/A
04G	WERE-WERE	CIRCLE - SANDHILL ARK VALLEY 115KV	68	CIRCLE - DAVIS 115KV	0	WERE Operating Directive 1205, Outage of the Circle - Davis 115KV Line	\$	
04G	WERE-WERE	COFFEY CO NO. 4 VERNON - GREEN 69KV	43	ROSE HILL - WOLF CREEK 345KV	0	WERE Operating Directive 301, Outage of the Rose Hill - Wolf Creek 345KV Line	\$	
04G	AEPW-AEPW	EAST CENTRAL HENRYETTA - OKMULGEE 138KV	104	KELCO - OKMULGEE 138KV	115	Replace Okmulgee Wavetrap	\$	40,000
04G	WERE-WERE	EAST STREET - WEST EMPORIA 115KV	92	MORRIS CO - WEST EMPORIA 115KV	74	WERE Operating Directive 1209, Outage of the Morris CC - West Emporia 115KV Line	\$	
04G	WERE-WERE	EL PASO - GILL ENERGY CENTER SOUTH 138KV	210	EEC NORTH - EEC SOUTH 138KV	0	Solution Undetermined		N/A
04G	WERE-WERE	KEENE - SOUTH ALMA 115KV	68	E MANHATTAN - JEC 230KV	0	WERE Operating Directive 900, Outage of the E MANHATTAN - JEC 230KV Line	\$	
04G	WERE-WERE	KEREFORD JCT - NW LEAVENWORTH 115KV	68	ARNOLD - STRANGER CREEK 115KV	0	WERE Operating Directive 1200, Outage of the Arnold - Stranger Creek 115KV Line	\$	
04G	WERE-WERE	MEAD - PLAZA 69KV	72	EEC NORTH - EEC SOUTH 138KV	0	Incorrect rating in model.	\$	
04G	WERE-WERE	N.A. PHILIPS JCT (STH) - W MCPHERSON 115KV CKT 1	67	EAST MCPHERSON - SUMMIT 230KV	11	See Previous	\$	
04SP	WERE-WERE	27TH & CROCO - TECUMSEH HILL 115KV CKT 1	67	AUBURN ROAD 230/161KV TRANSFORMER	0	WERE Operating Directive 618, Outage of the Auburn Road 230/161KV Transformer	\$	
04SP	WERE-WERE	3RD & VAN BUREN - SANDHILL ARK VALLEY 115KV	68	CIRCLE - HUTCHINSON ENERGY CENTER 115KV	0	WERE Operating Directive 1204, Outage of the Circle - Hutchinson Energy Center 115KV Line	\$	
04SP	WFEC-WFEC	ACME - WEST NORMAN 69KV	38	CANADIAN SW 138/69KV TRANSFORMER	0	See Previous	\$	
04SP	WERE-WERE	AUBURN ROAD - KEENE 115KV	68	E MANHATTAN - JEC 230KV	0	WERE Operating Directive 900, Outage of the E MANHATTAN - JEC 230KV Line	\$	
04SP	OKGE-OKGE	BEELINE - TIBBENS 69KV	66	BLUEBELL 138/69KV TRANSFORMER	0	Solution Undetermined	1	N/A
04SP	SWPS-SWPS	CANYON EAST - OSAGE SWI STA 115KV	98	BUSHLAND INTRCHNG - DEAF SMITH INTRCHNG 230KV	0	Rebuild 13 miles of 115 kV circuit with 397 ACSR on T-0- 102 structures.	\$	1,910,000
04SP		CATOOSA 161/138KV TRANSFORMER CKT 1	150	CATOOSA 161/138KV TRANSFORMER CKT 2	0	None - GRDA Mitigation Plan	\$.,,.,

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Study	From Area -							
Year	To Area	Branch Over 100% Rate B	Rate B	Outaged Branch Causing Overload	ATC	Solution		imated Cost
04SP	AEPW-GRRD	CATOOSA 161/138KV TRANSFORMER CKT 2	150	CATOOSA 161/138KV TRANSFORMER CKT 1	0	None - GRDA Mitigation Plan	\$	-
04SP	WERE-WERE	CHISHOLM - RIPLEY 69KV	128	HALSTEAD SOUTH - SEDGWICK CO NO. 12 COLWICH 138KV	0	Solution Undetermined		N/A
04SP	WERE-WERE	CIRCLE - SANDHILL ARK VALLEY 115KV	68	CIRCLE - HUTCHINSON ENERGY CENTER 115KV	0	WERE Operating Directive 1204, Outage of the Circle - Hutchinson Energy Center 115KV Line	\$	-
04SP	GRRD-GRRD	COLLINSVILLE 161/69KV TRANSFORMER CKT 1	50	COLLINSVILLE 161/69kV TRANSFORMER CKT 2	0	Solution Undetermined		N/A
04SP	AEPW-AEPW	EAST CENTRAL HENRYETTA - OKMULGEE 138KV	105	KELCO - OKMULGEE 138KV	0	See Previous	\$	-
04SP	AEPW-AEPW	EAST CENTRAL HENRYETTA - WELEETKA 138KV	104	KELCO - OKMULGEE 138KV	0	Replace Weleetka Wavetrap	\$	40,000
04SP	SWPS-SWPS	EAST PLANT INTRCHNG 115/69KV XFR CKT 1	46	COULTER INTRCHNG 115/69KV TRANSFORMER	0	Solution Undetermined		N/A
04SP	SWPS-SWPS	EAST PLANT INTRCHNG 115/69KV XFR CKT 2	46	NORTHWEST INTRCHNG 115/69KV TRANSFORMER CKT 1	0	Solution Undetermined		N/A
04SP	WERE-WERE	EAST STREET - WEST EMPORIA 115KV	91	MORRIS CO - WEST EMPORIA 115KV	0	WERE Operating Directive 1209, Outage of the Morris CO - West Emporia 115KV Line	\$	-
04SP	AEPW-AEPW	FLINT CREEK - TONTITOWN 161KV	311	FLINT CREEK - GENTRY REC 161KV	0	Rebuild 16.3 miles of 2-297 ACSR with 2156 ACSR. Replace Flint Creek wavetrap & jumpers. Replace Flint Creek switch # 1K75	\$	8,200,000
04SP	OKGE-WFEC	FRANKLIN SW - MIDWEST TAP 138KV	211	PHAROAH - WETUMKA 138KV	198	Replace 800 amp wavetrap with 2000 amp wavetrap at Franklin Switch and 795ACSR jumpers with 1590ACSR, connectors	\$	24,000
04SP	OKGE-OKGE	FT SMITH 500/161KV TRANSFORMER	475	FT SMITH 345/161KV TRANSFORMER	188	Convert Ft. Smith 161kv to 1-1/2 breaker design and install 2nd 500-161kV transformer bank.		7,000,000
04SP	SWPS-SWPS	HAPPY INTRCHNG - PALODU 115KV	98	AMARILLO S INTRCHNG - SWISHER CO INTRCHNG 230KV	172	Rebuild 24 miles of 115 kV circuit with 397 ACSR on T-0- 102 structures.		3,130,000
04SP	SWPS-SWPS	HASTNGS2 - VAN BUREN 1 TAP 69KV	59	COULTER INTRCHNG 115/69KV TRANSFORMER	0	Solution Undetermined		N/A
04SP	SWPA-ENTR	HERGETT - JONES 161KV	148	JONES - JONESBORO 161KV	0	Solution Undetermined		N/A
04SP	OKGE-OKGE	HORSESHOE LAKE - RENO 138KV	287	HORSESHOE LAKE - MIDWAY 138KV	0	Replace switches & ct's at Horseshoe Lake in 2004 at OKGE expense.	\$	-
04SP	AEPW-AEPW	HUNTINGTON - MIDLAND REC 69KV	36	AES - TARBY 161KV	0	Solution Undetermined		N/A
04SP	WERE-WERE	JARBALO JCT SWI STA - NW LEAVENWORTH 115KV	125	HALLMARK - JARBALO JCT SWI STA 115KV	0	WERE Operating Directive 1216, Outage of the Hallmark - Jarbalo JCT Switcing STA 115KV Line	\$	-
04SP	SWPS-SWPS	NORTHWEST INTRCHNG 115/69KV TRANSFORMER	45	HASTNGS2 - VAN BUREN 1 TAP 69KV	0	Solution Undetermined		N/A
04SP	SWPS-SWPS	PALODU - RANDALL CO INTRCHNG 115KV	99	AMARILLO S INTRCHNG - SWISHER CO INTRCHNG 230KV	44	See Previous	\$	-
04SP	OKGE-OKGE	PANTHER - SILVER LAKE 138KV	286	LONEOAK - NORTHWEST 138KV	0	Upgrade completed by OKGE. Rate A/B = 478/478MVA	\$	-
04SP	WFEC-WFEC	PAOLI 138/69KV TRANSFORMER	42	CANADIAN SW - NOBLE 69KV	2	WFEC Upgrade In-Service Date 04WP	\$	
04SP	WERE-WERE	ROSE HILL JCT - WEAVER 69KV	43	EL PASO - FARBER 138KV	0	Move Rose Hill Jct. 69 kV load to Rose Hill 345/138 kV subSTA. Requires new transformer bay and a new 25 MVA 138-12 kV transformer.	\$	1,400,000
04SP	GRRD-GRRD	TAHLEQUAH 161/69KV TRANSFORMER CKT 2	78	TAHLEQUAH 161/69KV TRANSFORMER CKT 1	0	Add 3rd 161/69 KV Transformer	\$	1,400,000
04SP	AEPW-AEPW	TERRA NITROGEN TAP - VERDIGRIS 138KV	149	NORTHEAST STA - OWASSO SOUTH 138KV	0	Solution Undetermined		N/A
04FA	AEPW-AEPW	21ST STREET TAP - TULSA SOUTHEAST 138KV	171	NORTHEAST STA - ONETA 345KV	161	In house upgrade scheduled for May 2004. New Summer Rate B = 235MVA. New Other Rate B = 263MVA.	\$	-
04FA	WERE-WERE	ANZIO - FORT JCT SWI STA 115KV	92	WEST JCT CITY - WEST JCT CITY JCT (EAST) 115KV	0	WERE Operating Directive 1217, Outage of the Fort JCT - West JCT City 115KV Line	\$	-
04FA	WERE-WERE	AUBURN ROAD - KEENE 115KV	68	E MANHATTAN - JEC 230KV	0	WERE Operating Directive 900, Outage of the E MANHATTAN - JEC 230KV Line	\$	
04FA		CATOOSA - LYNN LANE EAST TAP 138KV	234	WEKIWA 345/138kV TRANSFORMER	0	Incorrect rating in the non-summer cases. Rate A/B = 237/265MVA	\$	-
04FA	WERE-WERE	CHISHOLM - RIPLEY 69KV	128	EEC NORTH - EEC SOUTH 138KV	0	Solution Undetermined		N/A
04FA	WERE-WERE	CIRCLE - SANDHILL ARK VALLEY 115KV	68	CIRCLE - DAVIS 115KV	0	WERE Operating Directive 1205, Outage of the Circle - Davis 115KV Line	\$	-
04FA	WERE-WERE	CIRCLEVILLE - HOYT HTI SWI JCT 115KV	95	HOYT - STRANGER CREEK 345KV	0	WERE Operating Directive 803, Outage of the Hoyt - Stranger Creek 345KV Line	\$	-
04FA	OKGE-OKGE	DRAPER LAKE 345/138KV TRANSFORMER CKT 1	490	DRAPER LAKE 345/138KV TRANSFORMER CKT 2	0	Add third 345 - 138 kV transformer at Draper in 2008 at OKGE expense and use the operating directive until 2008.	\$	-
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Table 1 Continued – SPP facility overloads identified for the KCPL to ERCOTN transfer

Study Year	From Area - To Area	Branch Over 100% Rate B	Rate B	Outaged Branch Causing Overload	ATC	Solution	Est	imated Cos
						Add third 345 - 138 kV transformer at Draper in 2008 at		
04FA	OKGE-OKGE	DRAPER LAKE 345/138KV TRANSFORMER CKT 2	490	DRAPER LAKE 345/138KV TRANSFORMER CKT 1	0	OKGE expense and use the operating directive until 2008.	\$	
04FA	OKGE-OKGE	EARLSBORO - FOREST HILL 69KV	48	FOREST HILL - MAUD 138KV	147	Solution Undetermined		N/A
04FA	WERE-WERE	EAST STREET - WEST EMPORIA 115KV	92	MORRIS CO - WEST EMPORIA 115KV	0	WERE Operating Directive 1209, Outage of the Morris CO - West Emporia 115KV Line	\$	
04FA	WERE-WERE	EL PASO - GILL ENERGY CENTER SOUTH 138KV	210	EEC NORTH - EEC SOUTH 138KV	0	Solution Undetermined		N/A
04FA	WERE-WERE	EXIDE JCT - N.A. PHILIPS 115KV	196	EAST MCPHERSON - SUMMIT 230KV	17	Rebuild and reconductor 0.34 miles with 1192 ACSR.	\$	95,20
04FA	WERE-WERE	EXIDE JCT - SUMMIT 115KV	196	EAST MCPHERSON - SUMMIT 230KV	0	Rebuild and reconductor 4.94 miles with 1192 ACSR.	\$	1,100,00
04FA	WERE-WERE	FORT JCT SWI STA - MCDOWELL CREEK SWI STA 115KV	68	JEC - SUMMIT 345KV	0	WERE Operating Directive 402, Outage of the JEC - Summit 345KV Line	\$	
04FA	WERE-WERE	KEENE - SOUTH ALMA 115KV	68	E MANHATTAN - JEC 230KV	0	WERE Operating Directive 900, Outage of the E MANHATTAN - JEC 230KV Line	\$	
04FA	WERE-WERE	MEAD - PLAZA 69KV	72	EEC NORTH - EEC SOUTH 138KV	0	Incorrect rating in model.	\$	
04FA	WERE-WERE	N.A. PHILIPS - N.A. PHILIPS JCT (SOUTH) 115KV	155	EAST MCPHERSON - SUMMIT 230KV	0	See Previous	\$	
04FA	WERE-WERE	N.A. PHILIPS JCT (STH) - W MCPHERSON 115KV CKT 1	66	EAST MCPHERSON - SUMMIT 230KV	0	See Previous	\$	
04FA	WERE-WERE	N.A. PHILIPS JCT (STH) - W MCPHERSON 115KV CKT 2	90	EAST MCPHERSON - SUMMIT 230KV	0	See Previous	\$	
04FA	SWPS-SWPS	NORTHWEST INTRCHNG 115/69KV TRANSFORMER	45	EAST PLANT INTRCHNG - VAN BUREN 1 TAP 69KV	0	Solution Undetermined		N/A
04FA	OKGE-OKGE	PANTHER - SILVER LAKE 138KV	286	LONEOAK - NORTHWEST 138KV	0	Upgrade completed by OKGE. Rate A/B = 478/478MVA	\$	
04FA	AEPW-AEPW	SAND SPRINGS - SHEFFIELD 138KV	139	WEKIWA - WEST EDISON TAP 138KV	23	Replace Sand Springs switch 1306, 1307, & 1308	\$	75,0
04FA	AEPW-AEPW	SAND SPRINGS - WEST EDISON TAP 138KV	143	SHEFFIELD - WEKIWA 138KV	78	Replace Sand Springs switches 1314, 1315, & 1316	\$	75,0
04G	WFEC-WFEC	ACME - FRANKLIN SW 69KV	34	CANADIAN SW 138/69KV TRANSFORMER	0	See Previous	\$	
04WP	AEPW-AEPW	CATOOSA - LYNN LANE EAST TAP 138KV	234	TULSA NORTH - WEKIWA 345KV	7	Incorrect rating in the non-summer cases. Rate A/B = 237/265MVA	\$	
04WP	AEPW-GRRD	CATOOSA 161/138KV TRANSFORMER CKT 1	150	CATOOSA 161/138KV TRANSFORMER CKT 2	0	None - GRDA Mitigation Plan	\$	
04WP	AEPW-GRRD	CATOOSA 161/138KV TRANSFORMER CKT 2	150	CATOOSA 161/138KV TRANSFORMER CKT 1	0	None - GRDA Mitigation Plan	\$	
04WP	WERE-WERE	CIRCLEVILLE - HOYT HTI SWI JCT 115KV	95	HOYT - STRANGER CREEK 345KV	0	WERE Operating Directive 803, Outage of the Hoyt - Stranger Creek 345KV Line	\$	
04WP	GRRD-GRRD	COLLINSVILLE 161/69KV TRANSFORMER CKT 1	50	COLLINSVILLE 161/69kV TRANSFORMER CKT 2	144	Solution Undetermined		N/A
04WP	AEPW-AEPW	EAST CENTRAL HENRYETTA - OKMULGEE 138KV	105	KELCO - OKMULGEE 138KV	69	See Previous	\$	
04WP	WERE-WERE	EL PASO - GILL ENERGY CENTER SOUTH 138KV	210	EEC NORTH - EEC SOUTH 138KV	0	Solution Undetermined		N/A
04WP	WERE-WERE	EXIDE JCT - SUMMIT 115KV	196	EAST MCPHERSON - SUMMIT 230KV	199	See Previous	\$	
04WP	AEPW-AEPW	FLINT CREEK - TONTITOWN 161KV	334	FLINT CREEK - GENTRY REC 161KV	0	See Previous	\$	
04WP	WFEC-WFEC	LITTLE AXE - NOBLE 69KV	26	PAOLI 138/69KV TRANSFORMER	0	Solution Undetermined		N/A
04WP	WERE-WERE	N.A. PHILIPS - N.A. PHILIPS JCT (SOUTH) 115KV	156	EAST MCPHERSON - SUMMIT 230KV	0	See Previous	\$	
04WP	WERE-WERE	N.A. PHILIPS JCT (STH) - W MCPHERSON 115KV CKT 1	66	EAST MCPHERSON - SUMMIT 230KV	0	See Previous	\$	
04WP	WERE-WERE	N.A. PHILIPS JCT (STH) - W MCPHERSON 115KV CKT 2	90	EAST MCPHERSON - SUMMIT 230KV	0	See Previous	\$	
04WP	OKGE-OKGE	PANTHER - SILVER LAKE 138KV	286	LONEOAK - NORTHWEST 138KV	0	Upgrade completed by OKGE. Rate A/B = 478/478MVA	\$	
04WP	WFEC-WFEC	PAOLI 138/69KV TRANSFORMER	42	CANADIAN SW - NOBLE 69KV	60	WFEC Upgrade In-Service Date 04WP	\$	
						Total	\$ 3	33,876,40