

In-Service Date	2006 Expansion Plan Date	Project type EXP	SPP Area	"From" Bus Number used in SPP MDWG	From Bus Name	"To" Bus Number used in SPP MDWG	To Bus Name	Circuit	Voltages (kV)	# of Reconnector	# of New	# of Voltage Conversion	Summer Rating Normal/Emergency	Cost Estimate	Project Description/Comments
Year 2006															
04/01/06		TS	520	54049	East Central Henryetta	54028	Weleetka	1	138				143/158	\$84,000	Replace Weleetka wavetrp
04/01/06		TS	520	54049	East Central Henryetta	54023	Okmulgee	1	138				143/158	\$180,000	Replace Okmulgee wavetrp
05/01/06		R	520	53170	Tonitown	53194	Elm Springs REC	1	161	2			451/499	\$640,000	Rebuild line with 2-397 ACSR. Replace 1200 A switch 1045, and bus Elm Springs.
06/01/06		R	520	53519	Carthage REC	53529	Carthage T	1	138	4, 14			280/287	\$690,000	Reconductor line with 1272 ACSR
06/01/06		R	520	53598	Rock Hill	53519	Carthage REC	1	138	9, 57			215/237	\$2,425,000	Reconductor with 1272 ACSR. In Rock Hill sub Replace 755 ACSR and CT
06/01/06		R	520	53276	Lone Star South	53311	Pittsburg	1	138				246/287	\$50,000	Replace CT
12/31/06		PL	520	53403	Finney Tap	53466	Port Robson	1	69				184/256	\$6,230,000	build a 138 kV radial line (operated at 69 kV) from Finney Tap to Port Robson; cost includes Port Robson Station
09/01/06		R	520	53311	Pittsburg	53337	Winnboro	1	138	20			368/478	\$9,630,000	New 138 kV Line
06/30/06		TS	524	54827	Cottonwood Creek	54850	Skyline	1	138		0.01		/	\$400,000	OMPA is installing a new substation in the Cottonwood Creek to Skyline 138kV transmission line. OMPA to construct substation and provide switches and terminals to OG&E. OG&E will design and construct line structures to enter and exit the new sub.
05/15/06		EP	524	54909	Redbud	54908	Arcadia	1	345				1248/1426	\$1,430,000	Replace 3 breakers, 10 switches and ancillary equipment in Arcadia sub
06/01/06		R	524	54972	Reno	54980	Sunny Lane	1	69				101/101	\$100,000	Replace Wave Trap and CT -- new limit 1200A
06/01/06		R	524	55298	Van Buren AVEC	55336	VBI	1	69				134/143	\$50,000	Trap & CTR work increase to 1200A.
06/01/06		R	524	54855	Richards Tap	54862	Richards	1	138		4		268/308	\$1,000,000	New 138 kV line
01/01/06		PL	524	55035	Bristow	55048	Keystone West	1	138				267/267	\$350,000	Upgrade CT and Wavetrp at Bristow, and line relays at Bristow, Rock Creek & Horseshoe Lake.
06/01/06		R	524	55157	Brown	55153	Explorer Tap	1	138				133/143	\$25,000	Increase CT ratio at OGE Brown substation to 600A.
06/01/06		TS	524	54842	Chitwood	56172	Garber	1	138		6		268/308	\$4,556,165	New Tie-OMPA-Garber to OG&E Chitwood, complete loop 138kV, Arcadia-Memo Tp
08/31/06		NC3	524	55264	Tarby	55263	Tarby	1	161/69				123/134	\$649,500	Install Breaker Failure Relaying on all breakers at Tarby. Motorize disconnect switches T15L & M, 182L & M and 184L & M. Breaker failure relays are to isolate the failed critical breakers utilizing these motorized switches and allow the reclosing of adjacent breakers after the failed breaker is isolated.
12/01/06		PL	524	54785	Woodward Dist.	54796	Iodine	1	138		22		268/308	\$4,400,000	New Line- Build tie line between Woodward District and Iodine, relieve OL on OGE Woodward District to WFEC Woodward 138kV line for the outage of WindFarm to WFEC Mooreland line.
12/31/06		R	524	54769	NE Enid	54734	Glenwood	1	138		6		268/287	\$3,732,000	Part of a long term project per K Study 5140.3 to enhance the transmission system in Enid, OK. This is the last phase of the project.
12/31/06		R	524	55331	Razorback	55312	Short Mountain	1	69		14		134/143	\$4,791,277	New 69(161kV) transmission line from Razorback to Short Mountain
04/30/06	06/01/07	TS	526	51517	Floyd Co	51518	Floyd Co	1	115/69				84/84	\$1,150,000	Upgrade both existing transformer
06/01/06		R	526	51241	Bailey Co	51242	Bailey Co	1	115/69				84/84	\$2,200,000	Upgrade both existing transformer
06/01/06		R	526	51241	Bailey Co	51242	Bailey Co	2	115/69				84/84	\$2,200,000	Upgrade both existing transformer
06/01/06	06/01/07	R	526	51315	Kress	51316	Kress	2	115/69				84/84	\$1,250,000	Upgrade #2 Transformer
06/01/06		R	526	51959	Denver City	51960	Denver City	1	115/69				84/84	\$2,200,000	Upgrade both existing transformer
06/01/06		R	526	51959	Denver City	51962	Denver City	2	115/69				84/84	\$2,200,000	Upgrade both existing transformer
12/01/06		R	526	51597	Hockley	51598	Hockley	1	115/69				84/96	\$2,750,000	Upgrade both existing transformer
12/01/06		R	526	51597	Hockley	51598	Hockley	2	115/69				84/96	\$2,750,000	Upgrade both existing transformer
03/01/06		R	536	57505	Cities Service	57527	3rd & VanBuren	1	69	0			41 / 41	\$1,700,000	Tear down / Rebuild 3.18-mile line using 795 kcmil ACSR; Project is part of a long range plan to correct service issues in the City of Hutchinson area.
04/01/06		R	536	57413	Circle	57419	Hutchinson Energy Center	1	115	0			223/245	\$300,000	Tear down / Rebuild 0.40-mile line replacing 556.5 kcmil ACSR with 1192.5 kcmil ACSR; Project is part of a long range plan to correct service issues in the City of Hutchinson area
05/18/06		R	536	57478	Midwest Solvent Junction 1	57473	Atchison Junction 2	1	69	0.7			/108	\$35,000	Rebuild
08/01/06		R	536	57583	Butler	56987	Butler	2	138/69				100/110	\$1,600,000	Transformer will now be installed at Butler substation instead of Midian See email from Don Taylor 10/28/05
07/19/06		R	536	56863	Mcdowell	56862	McDowell	1	230		28		363/363	\$7,224,000	Convert Morris County - McDowell Creek line to 230 kV operation; Construct McDowell Creek 230 kV substation and install 280 MVA 230-115 kV transformer; 230 kV ring bus substation work required at Morris County.
07/19/06		R	536	56862	McDowell	57335	McDowell	1	230/115				280/308	\$7,224,000	Convert Morris County - McDowell Creek line to 230 kV operation; Construct McDowell Creek 230 kV substation and install 280 MVA 230-115 kV transformer; 230 kV ring bus substation work required at Morris County.
12/31/06		R	536	57512	43rd & Lorraine	57524	Tower 33	1	69	2.47			72/72	\$2,400,000	Tear down / rebuild 5.20-mile 69 kV line as 115 kV. 69 kV system in Hutchinson will be converted to 115 kV by fall 2008.
12/31/06		R	536	57513	HEC	57512	43rd & Lorraine	1	69	2.7			72/72	\$2,400,000	Tear down / rebuild 5.20-mile 69 kV line as 115 kV. 69 kV system in Hutchinson will be converted to 115 kV by fall 2008.
12/31/06	06/01/09	R2	536	57786	Chisholm	57799	Grant	1	69	2			36/36	\$780,000	Tear down / rebuild 2.3 mile line; Build for 138 kV and operate at 69 kV
01/01/06		PL	540	96555	Gravois Mills	59314	North Warsaw 161	1	161		31		72/23	\$500,000	New 161/69kV Sub Tapping AECI Gravois Mill to Truman Line
01/02/06		PL	540	52702	Truman	59314	North Warsaw 161	1	161	2			223/234	\$500,000	New 161/69kV Sub Tapping AECI Gravois Mill to Truman Line
06/01/06		R	540	57978	Craig			1	161				/	\$75,000	New interconnection with AECI at Craig 69 kV
06/01/10		PL	540	59316	Lone Jack	59218	Greenwood	1	161		4		223/245	\$1,600,000	Radial Line From Greenwood to New Lone Jack 161kV Sub
10/01/06		R	540	59308	Nevada 161	59307	Nevada Plant	1	69	2			114/122	\$536,000	New Nevada Configuration - Appleton City now terminates in Nevada 161/69, new double circuit down to Nevada Plant
05/01/06		PL	541	57981	Lacygne	57965	West Gardner	1	345	40.9			1802/1802	\$10,461,346	Reconductor line.
12/01/06		R	541	58035	Tomahawk	57992	Bendix	1	161	2			293/335	\$528,600	reconductor line with 1192 acsr
03/01/06		TS	544	59467	Sub 110 - Oronogo Jct.	59494	Sub 432 - Joplin Oakland North	1	161	1.4			/	\$504,000	Reconstruct and reconductor 1.4 miles of the Oronogo Jct to Joplin Oakland North 161kV facility to 556 KCMIL ACSR
06/01/06		TS	544	59466	Sub 109 - Atlas Jct.	59494	Sub 432 - Joplin Oakland North	1	161	3.76			/	\$1,353,600	Reconductor 3.76 miles of the Atlas Jct Sub-Joplin Oakland North 161kV facility 556 KCMIL ACSR
Year 2007															
06/01/07		PL	515	52708	SPA Hilltop	99679	EES Hilltop	1	161				189/189	\$5,300,000	Interconnection with EES
06/01/07		RN	515	52650	Norfolk	52648	Norfolk	1	161/69				70/70	\$1,300,000	Replace 25MVA transformer with new 70MVA xfmr
06/01/07		TS	515	59466	Sub 109 - Atlas Jct.	52688	Carthage	1	161				223/223	\$80,000	Replace 600 Amp disconnect Switches with 1200 amp switches at Carthage
06/01/07		TS	515	52692	Springfield	59969	Brookline	1	161	2			335/335	\$390,000	Reconductor 2 miles 161 kV line \$390,000 1222 MCM ACCC/TW (KAMO \$390,000)
05/01/07	06/01/07	R	520	53176	Tonitown	53170	Tonitown	1	345/161				675/675	\$4,278,100	Install new 345/161 kV Auto and install terminal equipment at Tonitown
05/01/07		R	520	53158	Silicam Springs	53154	Chamber Springs	1	161		8		429/597	\$6,627,225	New 161 line. Terminal equipment at Chamber Spring and Silicam Springs
05/01/07		R	520	53446	South Shreveport	53455	SW Shreveport	1	138				246/246	\$130,000	Replace wavetrp at South Shreveport
06/01/07	06/01/10	R2	520	53557	Knox Lee	53586	Oak Hill #2	1	138				261/287	\$100,000	Replace relay, wave trap at Knoxlee
06/01/07	06/01/13	TS	520	53585	OAK HILL 138	53584	NW HENDERSON 138	1	138				261/287	\$75,000	Replace wavetrp and reset CTs @ NW Henderson.
06/01/07		R	520	54122	Elk City	55897	Elk City	1	69				72/72	\$100,000	Replace CTS & jumpers. Limits on AEP end will be 600A switches and Breaker
06/01/07		R	520	54136	Porter Hill	54150	Elgin Junction	1	69				73/85	\$200,000	Replace Switches & reset CT @ Elgin Jct. Replace switches @ Porter Hill. \$200,000 12 month lead time
06/01/07		R	520	53154	Chamber Springs 161 kV	53170	Tonitown 161 kV	1	161	11.7			73/85	\$4,000,000	Reconductor 666 ACSR (11.6 mies)and 1272 ACSR (.1 mile) to Drake ACCC (2156 ACSR section 0.6 mies is not replaced)
06/01/08	06/01/07	R	520	53300	Northwest Texarkana	53245	Alumax Tap	1	138	2			362/424	\$1,750,000	Rebuild 2.0 miles of 1024 ACAR with 1590 ACSR. Replace wavetrp & jumpers with 2156 ACSR. Replace Switch 2285 @ Alumax Tap.
06/01/07		R	520	53774	S3rd & Garnett N. Tap	53823	Tulsa Southeast	1	138				287/287	\$63,000	Replace 3 switches
06/01/07		PL	520	53818	Oneta Station	53781	Broken Arrow 101st St	1	138		2.05		368/478	\$66,478	Rebuild line

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06/01/07		PL	520	53781	Broken Arrow 101st St	53758	Broken Arrow 81st St	1	138		6.05		368/478		Rebuild line
06/01/07		PL	520	53818	Onelia Station	53797	Broken Arrow North Tap	1	138		10.9		368/478		Rebuild line
06/01/07		PL	520	53794	Riverside Station	53885	Sapulpa	1	345				901/1055		Conversion from 138 kV to 345 kV. (Line is already built for 345 kV.)
06/01/07		PL	520	53794	Riverside Station (345 kV)	53785	Riverside Station T1 138 kV	1	345/138				675/675		Replace transformer at Riverside Station
06/01/07		PL	520	53794	Riverside Station (345 kV)	53891	Riverside Station T2 138 kV	1	345/138				675/675		New 2nd transformer at Riverside Station
06/01/07		PL	520	53785	Riverside Station T1 138 kV	53795	Riverside Station (138 kV)	1	138		1		892/956		Rebuild 138 kV line to Riverside Station 138 kV
06/01/07		PL	520	53891	Riverside Station T2 138 kV	53795	Riverside Station (138 kV)	1	138		1		892/956	\$48,000,000	New 138 kV line to Riverside Station 138 kV
06/01/07		PL	520	53885	Sapulpa	53767	Wekiwa	1	345				901/1055		Conversion from 138 kV to 345 kV. (Line is already built for 345 kV.)
06/01/07		PL	520	53885	Sapulpa	53886	Sapulpa	1	345/138				560/616		New 345/138 kV Sapulpa Transformer
06/01/07		PL	520	53886	Sapulpa	53771	Jenks	1	138		5		202/235		New 138 kV line to loop into Sapulpa 138 kV station
06/01/07		PL	520	53886	Sapulpa	53829	S2Delw4	1	138		5		202/235		New 138 kV line to loop into Sapulpa 138 kV station
06/01/07		PL	520	53886	Sapulpa	53827	S.S	1	138		5		161/187		New 138 kV line to loop into Sapulpa 138 kV station
06/01/07		PL	520	53886	Sapulpa	53862	Oakswtp4	1	138		5		161/187		New 138 kV line to loop into Sapulpa 138 kV station
12/01/07		R	520	53337	Winnboro	53581	North Minneola	1	138		25		368/478	\$9,056,000	New 138 kV Line
05/30/07		PL	523	54467	ZENATP 2	54520	JAY GR 2	1	69				99/113	\$500,000	Voltage support at Jay area
05/30/07		PL	523	54465	GRAYTP 2	54467	ZENATP 2	1	69				99/113	\$1,600,000	Voltage support at Jay area
06/01/07		R	523	54504	Stilwell	54521	Stilwell City	1	161/69				70/78	\$1,800,000	Install 161/69kV autotransformer at Stilwell
03/30/07		PL	524	55071	Tecumseh				69	0.01			/	\$540,855	Reroute transmission through sub. Install motorized switches and SCADA. Town of Tecumseh adding additional transformer.
06/01/07		PL	524	54787	Dewey				138				/	\$949,092	Install 3-138kV breakers at Dewey Substation
06/01/07		NC3	524	55055	Maud				138				/	\$359,964	Install breaker failure relaying on all transmission breakers and motorize the tie switches on each tie breaker in order to prevent the loss of the entire bus for a tie breaker failure.
06/01/07		PL	524	55120	Russett	55172	Springdale	1	138				133/153	\$22,000	Increase a trap.
12/31/07		NC3	524	55339	Vbi				161				/	\$120,000	Motorize the L&M switches of breakers 184 & 185 to work with the breaker failure relaying scheme.
06/30/07		NC3	524	55308	3rd St				1	161			/	\$165,439	Motorize the L&M switches of breaker T115 to work with the breaker failure relaying scheme.
06/30/07		NC3	524	55300	Fl. Smith				1	161			/	\$105,852	Motorize the L&M switches of breaker 184 to work with the breaker failure relaying scheme.
06/30/07		R	524	54862	Richds	54864	Piedmont	1	138		5		268/308	\$3,300,000	New 138kV line from Piedmont to Richards
06/30/07		R	524	55011	Stillwater	55009	McElroy	1	138	2			478/478	\$800,000	Reconductor 1.91 miles of 477A533 to 795A533
06/30/07		PL	524	55011	Stillwater	55006	Morrison	1	138				517/542	\$1,866,675	Terminal Upgrade & Reconductor to 795 ACCC/TW
11/15/07		NC3	524	54743	Osage				138				/	\$149,230	Install breaker failure relaying on all 138kV breakers and motorize the L&M switches of breaker T115.
12/31/07		PL	524	55328	Igo				161			0.65	\$2,358,533	Rebuild Igo to 161kV standards but initially operating at 69kV plus 3-161kV breakers	
12/31/07		PL	524	55328	Igo	55331	Razorback	1	161		10		134/143	\$2,800,000	New 69(161)kV transmission line from Razorback to Igo
12/31/07		PL	524	55021	Oakgrove				69				/	\$312,570	Install a 69kV breaker at Oak Grove
12/01/07		R	525	55829	Bradley 69 kV	56041	Rush Springs 69 kV	1	69	6.9			81/106	\$1,656,000	Reconductor 6.9 miles from 1/0 ACSR to 795 ACSR. RateA=81MVA, RateB=106MVA
12/01/07		R	525	55898	Elmore 69 kV	56087	Wallville 69 kV	1	69	6.2			47/61	\$1,488,000	Reconductor 6.2 miles from 1/0 ACSR to 336 ACSR. RateA=47MVA, RateB=61MVA
06/01/07		R	525	55802	ACME 69 kV	56095	W Norman 69 kV	1	69	3.8			81/106	\$912,000	Reconductor 3.8 miles from 3/0 ACSR to 795 ACSR. RateA=81MVA, RateB=106MVA
04/01/07	06/01/15	R2	526	52073	Chaves	52072	Chaves	2	230/115				225/258	\$3,000,000	Upgrade Chaves230/115 kV 225/258 MVA
06/01/07		R	526	51829	Terry Co	51830	Terry Co	1	115/69				84/84	\$2,375,000	Upgrade both existing transformer
06/01/07		R	526	51829	Terry Co	51830	Terry Co	2	115/69				84/84	\$2,375,000	Upgrade both existing transformer
06/01/07		R	526	52310	Carlsbad Interchange 115 kV	52309	Carlsbad Interchange 69 kV	1	115/69				84/96	\$2,750,000	Upgrade 115/69 kV transformer.
06/01/07		R	526	52310	Carlsbad Interchange 115 kV	52309	Carlsbad Interchange 69 kV	2	115/69				84/96	\$2,750,000	Upgrade 115/69 kV transformer
06/01/07		R	526	51563	Crosby County Interchange 69 kV	51564	Crosby County Interchange 115 kV	3	115/69				84/96	\$1,000,000	Add third transformer from spare stock
06/01/07		R	526	51175	Curry County Interchange 69 kV	51176	Curry County Interchange 115 kV	3	115/69				40/46	\$1,000,000	Add third transformer from spare stock
06/01/07		R	526	52029	Gaines County Interchange 69 kV	52030	Gaines County Interchange 115 kV	1	115/69				84/84	\$2,750,000	Replace both gaines transformers with 84 MVA xt
06/01/07		R	526	52029	Gaines County Interchange 69 kV	52030	Gaines County Interchange 115 kV	2	115/69				84/84	\$2,750,000	Replace both gaines transformers with 84 MVA xt
12/01/07		R	526	51401	Hale Co	51402	Hale Co	1	115/69				84/96	\$2,900,000	Upgrade both existing transformer
12/01/07		R	526	51401	Hale Co	51402	Hale Co	2	115/69				84/96	\$2,900,000	Upgrade both existing transformer
12/29/07		PL	526	51040	Amarillo South	51086	Springdraw	1	115		10		151/173	\$4,500,000	New 115kV Distribution Station between Amarillo and Canyon
10/01/07		PL	531	56553	South Hays				230/115				/	\$2,000,000	New South Hays 230/115 kV substation
10/01/07		PL	531	56561	Knoll 115	56601	Heizer 115	1	115			28.6	/	\$12,870,000	Convert Knoll to Heizer 115 kV line to 230kV (already constructed for 230kV).
06/01/07		R	536	57733	Gatz	57735	Golden Plain Tap	1	69	1.72			72/72	\$590,000	Rebuild Gatz - Golden Plain Tap 69 kV line.
06/01/07		R	536	57737	Hesston	57735	Golden Plain Tap	1	69	3.61			72/72	\$1,250,000	Rebuild Hesston - Golden Plain Tap 69 kV line.
06/01/07		R	536	57165	HTI Junction	57152	Circleville	1	115	1.1			223/245	\$2,360,000	Rebuild 115 kV line
06/01/07		PL	539	58778	Mullergren 115 kV	56601	Heizer 115 kV	1	115	0.25			165/178	\$1,310,000	After rebuilding the 115 kV tie between MIDW and WEPL, the Mullergren Generation wouldn't be an RMR unit anymore during peak season.
06/01/07		PL	539	58794	Spearville	58771	Judson Large	2	115		15		165/178	\$8,310,000	This project is part of the second transmission path between the Dodge City area and Spearville 230 kV Sub. This new line would be built in 230 kV system but operated in 115 kV for the time being. This project is proposed to address two issues. Firstly, at present, Judson Large generation may not be taken off line on any seasons to perform maintenance due to potential voltage collapse for loss of Spearville North Judson Large. After the described project, Judson Large Plant will no longer be an RMR. Secondly, under the category C contingency of losing the 115 kV line from Spearville to North Judson Large followed by breaker failure at North Judson Large Sub, the system would suffer major generation unstable, large loss of loads, and wind farm trips. Further investigations should be carried out to confirm this instability issue.
06/01/07		R	539	58771	Greensburg	58764	JUDSON LARGE	1	115				121/130	\$148,000	Replace relays (upgrade protection system)
06/01/07		NC3	539	58795	Spearville 230 kV	58794	Spearville 115 kV	2	230/115				205/205	\$4,800,000	This project is part of the second transmission path between the Dodge City area and Spearville 230 kV Sub, which is proposed to address two issues. Firstly, at present, Judson Large generation may not be taken off line on any seasons to perform maintenance due to potential voltage collapse for loss of Spearville North Judson Large. After the described project, Judson Large will no longer be an RMR. Secondly, under the category C contingency of losing the 115 kV line from Spearville to North Judson Large followed by breaker failure at North Judson Large Sub, the system would suffer major generation unstable, large loss of loads, and wind farm trips. Further investigations should be carried out to confirm this instability issue.
06/01/07		PL	541	57991	Terrace	58003	Boulevard	1	161		1		259/259	\$5,039,000	New Boulevard sub and new 161kV line

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06/01/07		R	541	57969	Stilwell	58050	Antioch	1	161	4			558/558	\$892,600	Reconnector 161kV line
06/01/07		PL	541	58077	Pleasant Valley	59055	South Ottawa	1	161		16		293/335		New Pleasant Valley sub and cut-in
06/01/07		PL	541	58077	Pleasant Valley	57966	West Gardner	1	161		11		293/335	\$2,230,540	New Pleasant Valley sub and cut-in
06/01/07		TS	544	59469	Sub 167 - Riverton	59541	Sub 167 - Riverton				161/69		/		Install a new 100 MVA autotransformer at Riverton Sub
06/01/07		TS	544	52686	Neosho	59472	Sub 292 - Tipton Ford	1	161	10.6			/	\$3,816,000	Reconnector 10.6 miles of the Neosho Sub- Tipton Ford 161kv facility to 795 KCMIL ACSR
06/01/07		R	544	59500	ReinMiller	59472	Tipton Ford	1	161		4		/	\$3,215,000	Install new 161 kV line from 292 to 393 Build 4.2 miles Terminal at both
Year 2008															
06/01/08		TS	515	52692	Springfield	59969	Brookline	1	161	2			432/432	\$300,000	Upgrade the main and transfer buses and bus work within bay at Springfield to 2000 amps(\$300,00). Replace disconnect switches at Springfield.
	06/01/08	RN	515	52696	Nixa	52701	Nixa	1	161/69				70/17/70/17	\$1,500,000	Upgrade Nixa transformers to 70 MVA
	06/01/08	RN	515	52802	Brown	55157	Brown 138	1	138				134/153	\$50,000	Replace switches @ Brown
	06/01/07	R	520	53155	Chamber Springs	53176	Tontitown	1	345		14		1011/1176	\$14,405,000	Install new 345 kV line , ROW and terminal equipment at Chamber Springs
	06/01/08	R	520	53138	Fayetteville	53146	N Fayetteville	1	161			3.95	429/597		Convert 69 kV line to 161 kV
	06/01/08	R	520	53146	N Fayetteville	53166	Carly Road	1	161			5.95	354/413	\$21,000,000	Convert 69 kV line to 161 kV
	06/01/08	R	520	53166	Carly Road	53131	Dyess	1	161				354/413		Convert 69 kV line to 161 kV
	06/01/08	R	520	53157	S Fayetteville	53138	Fayetteville	1	161			1.98	354/413		Convert 69 kV line to 161 kV
	06/01/13	R2	520	54098	Snyder	54103	Altus Junction	1	138		27		244/352	\$16,760,000	Build new Snyder (54098) to Altus Jct (54103) 138 kV line
	06/01/08	R	520	53249	Bann	53269	Kings Highway	1	69				90/105	\$50,000	Replace Switch in King Hwy substation
	06/01/13	TS	520	54163	Cache	54098	Snyder	1	138				202/235	\$73,348	Replace Snyder wavetrap
	06/01/08	RN	520	53660	Ben Wheeler	53685	Barton's Chapel (Rayburn)	1	138				202/235	Rayburn	Rayburn Project Build Ben Wheeler to Barton Chapel 138 kV
	06/01/08	PL	524	54989	Earlywine			1	138				/		Develop Earlywine 138kV Substation. Build a new line from the McClain Plant to Earlywine. Reroute the Westmoore to Southgate line into Earlywine.
	06/01/08	PL	524	54989	Earlywine	54928	Southgate	1	138		3		268/308	\$12,000,000	Develop Earlywine 138kV Substation. Build a new line from the McClain Plant to Earlywine. Reroute the Westmoore to Southgate line into Earlywine.
	06/01/08	PL	524	54989	Earlywine	54887	Westmoore	1	138		3		268/308		Develop Earlywine 138kV Substation. Build a new line from the McClain Plant to Earlywine. Reroute the Westmoore to Southgate line into Earlywine.
	06/01/08	PL	524	54989	Earlywine	54902	McClain	1	138		4		499/550		Develop Earlywine 138kV Substation. Build a new line from the McClain Plant to Earlywine. Reroute the Westmoore to Southgate line into Earlywine.
	06/01/08	R	524	54996	Etowah	55052	Tribbey	1	69				52/66	\$1,900,000	Close NO switch of Etowah-Tribbey by rebuilding Etowah and installing 69kV breakers. NOTE: Overloads Midwest - Franklin so it must take place after the Midwest - Franklin project is complete
	06/01/07	TS	524	55785	Wind Farm	55999	Mooreland	1	138	0.18			162/212	\$120,000	Upgrade conductor between Mooreland 138 and Wind Farm 138 with 795AS33 and upgrade terminal equipment at FPL switch
	06/01/07	TS	525	55785	Wind Farm	55999	Mooreland	1	138				162/212	\$750,000	Upgrade terminal equipment at Mooreland
	06/01/08	R	525	54167	Sayre	56001	Morewood	1	138		15	75	81/106	\$12,000,000	Build new 138 kV line Sayre to Erick. Convert voltage for Erick-Sweetwater-Durham-Brantley-Morewood-SWto 138 kV. Add Sayre PSO interconnect at 138 kV
	06/01/07	R	526	51687	Lubbock East	51688	Lubbock East	1	115/69				84/96	\$2,750,000	Upgrade both existing transformer
	06/01/08	R	526	51966	Mustang Station N. 115 kV	51969	Mustang Station 230 kV	2	230/115				252/289	\$3,000,000	Upgrade Transformer 230/115 kV 252/289 MVA
	06/01/08	R	526	51687	Lubbock East	51688	Lubbock East	2	115/69				84/96		Upgrade both existing transformer
	06/01/08	TS	526	51689	Lubbock East	51688	Lubbock East	1	230/115				252/290	\$3,000,000	Additional Project being considered
	06/01/08	TS	526	51533	Tuco Interchange	51532	Tuco Interchange	2	230/115				252/252	\$3,000,000	Add 2nd 252 MVA 230/115 kV transformer
	12/01/08	PL	534	58785	Phillipsburg	56373	Rhoades	1	115		35		165/198	\$6,250,000	Install 35 miles 115 kV line from Phillipsburgsubstation to Rhoades
	06/01/07	TS	536	57796	Gill Energy Center West	57830	Peck	1	69	10.46			83/83	\$3,600,000	Rebuild 10.46 mile Gill-Peck line 138 kV line, but operated at 69 kV
	06/01/09	R2	536	57041	Evans South	57053	Lake Ridge	1	138	8			534/586	\$4,100,000	Rebuild
	07/01/07	R	536	57795	Murry Gill Energy Center	57813	MacArthur	1	69				80/80	\$143,000	Replace bus, jumpers and disconnect switches at MacArthur 69 kV substation to increase line capacity to conductor rating
	06/01/08	R	536	57683	Coffeyville	57685	CRA	1	69	0.58			116/128	\$250,000	Rebuild Coffeyville - CRA 69 kV line.
	06/01/08	R	536	57688	Dearing	57683	Coffeyville	1	69	1.13			116/116	\$390,000	Rebuild Dearing - Coffeyville 69 kV line.
	07/01/08	R2	536	57741	Mid-American Junction	57745	Newton	1	69	3.9			116/128	\$1,300,000	Rebuild Mid-American Junction - Newton 69 kV line.
	07/01/08	R2	536	57744	Mud Creek Junction	57741	Mid-American Junction	1	69	1.0			116/128	\$360,000	Rebuild Mud Creek Junction - Mid-American Junction 69 kV line.
	07/01/08	PL	536	57588	Chase	57605	White Junction	1	69	7.3			72/72	\$2,400,000	Tear down / Rebuild 7.3-mile Chase - White Junction 69 kV line. Replace existing 2/0 copper conductor with 795 kcmil ACSR conductor. Rating will be limited by disconnect switches. If the City of Augusta takes full requirements firm transmission service
	12/31/08	R	536	57419	HEC	57440	43rd & Lorraine	1	115			2.7	223/245		Convert the HEC - 43rd&Lorraine - Tower 33 - Meadowlark - 3rd&VanBuren 69 kV to 115 kV
	12/31/08	R	536	57440	43rd & Lorraine	57455	Tower 33	1	115			2.5	223/245		Convert the HEC - 43rd&Lorraine - Tower 33 - Meadowlark - 3rd&VanBuren 69 kV to 115 kV
	12/31/08	R	536	57455	Tower 33	57441	Meadowlark	1	115			1.0	68/68	\$1,900,000	Convert the HEC - 43rd&Lorraine - Tower 33 - Meadowlark - 3rd&VanBuren 69 kV to 115 kV
	12/31/08	R	536	57455	Tower 33	57441	Meadowlark	2	115			1.0	141/141		Convert the HEC - 43rd&Lorraine - Tower 33 - Meadowlark - 3rd&VanBuren 69 kV to 115 kV
	12/31/08	R	536	57441	Meadowlark	57435	3rd & VanBuren	1	115			2.2	68/68		Convert the HEC - 43rd&Lorraine - Tower 33 - Meadowlark - 3rd&VanBuren 69 kV to 115 kV
	12/31/08	R	536	57441	Meadowlark	57435	3rd & VanBuren	2	115			2.2	118/118		Convert the HEC - 43rd&Lorraine - Tower 33 - Meadowlark - 3rd&VanBuren 69 kV to 115 kV
	06/01/08	PL	540	59204	Smithville	59349	Pope	1	161		3.5		223/245	\$4,500,000	This project no longer taps the Smithville to Platte City Line. Instead, it will be a radial feed 161kV substation from Smithville.
	11/01/11	R2	540	59210	Martin City 161 kV	59259	Turner Road Substation	1	161	3			250/282	\$150,000	Replace Wavetrap at Martin City
	06/01/08	PL	540	59350	Iatan	59321	Stranger	1	161		15.8		335/335	\$7,127,000	161kV Tap of Platte City to Stranger Creek
	06/01/08	PL	540	59221	Platte City	59350	Iatan	1	161		17.9		558/558		161kV Tap of Platte City to Stranger Creek
	06/01/08	PL	540	59350	Iatan	59221	Platte City	1	161				558/558	\$1,050,000	Terminal equipment planned to be upgraded to allow for 2000 Amps and Reactor at Platt City
	06/01/08	PL	541	58126	Lackman	57969	Stilwell	1	161		8		293/335	\$172,720	New Lackman sub cut-in
	06/01/08	PL	541	58126	Lackman	58042	Springhill	1	161		3		293/335		New Lackman sub cut-in
	06/01/08	PL	541	57990	Crosstown	58003	Boulevard	1	161		1.3		259/259	\$4,750,000	New 161kV line
	06/01/08	PL	541	58121	Hillsdale	58054	Cedar Niles	1	161		8		293/335	\$5,653,000	New Hillsdale-Cedar Niles 161 kV Line and Cedar Niles ring bus
	06/01/08	R	544	59541	SUB 167 - RIVERTON	59602	SUB 406 - RIVERTON SOUTH	1	69				54/65	\$20,000	Change Relay Settings and change jumpers on switch at Riverton Sub #406
	06/01/08	R	544	59621	Ozarks	59442	Ozark South	1	161/69				100/100		Build 161 kV line from AECI's Riverdale substation to a new substation at Ozark. Install a 100 MVA 161/69 Auto-xfmr in the Ozark substation. Split the 69 kV line from Forsyth to Ozark #434 at this new substation. Project requires 30 month lead time
	06/01/08	R	544	96726	Riverdale Sub	59621	Ozarks	1	161		8		218/268	\$14,067,000	Build 161 kV line from AECI's Riverdale substation to a new substation at Ozark. Install a 100 MVA 161/69 Auto-xfmr in the Ozark substation. Split the 69 kV line from Forsyth to Ozark #434 at this new substation. Project requires 30 month lead time

In-Service Date	2006 Expansion Plan Date	Project type EXP	SPP Area	*From* Bus Number used in SPP MDWG	From Bus Name	**To* Bus Number used in SPP MDWG	To Bus Name	Circuit	Voltages (kV)	# of Reconnector	# of New	# of Voltage Conversion	Summer Rating Normal/Emergency	Cost Estimate	Project Description/Comments
06/01/08	06/01/10	R	544	59570	Sub 330 - Ozark Northwest	59609	Sub 434 - Ozark Southeast	1	69		3		73/89		Build 161 kV line from AECI's Riverdale substation to a new substation at Ozark. Install a 100 MVA 161/69 Auto-xfmr in the Ozark substation. Split the 69 kV line from Forsyth to Ozark #434 at this new substation. Project requires 30 month lead time
06/01/08	06/01/10	R	544	59609	Sub 434 - Ozark Southeast	59442	Ozark South	1	69		1.5		89/106		Build 161 kV line from AECI's Riverdale substation to a new substation at Ozark. Install a 100 MVA 161/69 Auto-xfmr in the Ozark substation. Split the 69 kV line from Forsyth to Ozark #434 at this new substation. Project requires 30 month lead time
Year 2009															
	06/01/09	RN	151	99685	Grandview	99832	Osage	1	161		5.34		247/247		Entergy Planning has identified this proposed project as installing a new switching station, Grandview, on the existing 161 kV line between Table Rock Dam and Eureka Springs substation and constructing a new 161 kV line between Grandview and the existing Osage Creek substation.
06/01/09		PL	502	50154	Pinville	50179	Shady Oaks	1	138	6.8			249/249	\$3,000,000	Upgrade Cleco's Pinville-Shady Oaks 138 kV line
06/01/09		TS	520	55248	Explorer Glenpool	53795	Riverside Station	1	138	1.9			357/357	\$1,000,000	Reconductor 1.9 miles with ACCC. Replace wave trap jumpers at Riverside.
06/01/09	06/01/13	R2	520	53131	Dyess	53194	Elm Springs REC	1	161				305/353	\$300,000	Replace Jumper, Switch, Breaker at Dyess and replace switch at Elm Springs
06/01/09	06/01/09	R2	520	53245	Alumax Tap	53250	Bann	1	138	0.67			430/449	\$1,000,000	Replace six (6) 138 kV switches, five at Bann & one at Alumax Tap. Rebuild 0.67 miles of 1024 ACAR with 1590 ACSR. Replace wavetramp & jumpers @ Bann. Replace breaker 3300 @ Bann.
06/01/09	10/01/07	R	524	54887	WESTMOORE 138	54925	PENNSYLVANIA 138	1	138				268/308	\$250,000	Replace the disconnect switches for breaker 108 at Pennsylvania Substation. Replace the 1200A trap. Increase CTR. R
06/01/09	06/01/13	R2	524	55073	Earlsboro	55077	Fixico	1	69				76/76	\$150,000	Replace CT & Trip to 1200A
06/01/09		TS	524	55248	Explorer Glenpool	55247	Beeline	1	138	0.92			465/465	\$200,000	Reconductor .92miles of line with Drake ACCC/TW.
06/01/09		TS	524	55248	Explorer Glenpool	53795	Riverside Station	1	138	1.82			465/465	\$400,000	Reconductor 1.82 miles line with Drake ACCC/TW.
06/01/09	06/01/09	R2	525	55976	Little Axe 69 kV	56011	Noble 69 kV	1	69	11			81/106	\$2,640,000	Reconductor 11 miles from 1/0 to 795 ACSR. RateA=81MVA, RateB=106MVA
06/01/09	R2	526	50992	Bushland Interchange 115 kV	51094	Northeast Hereford Interchange 115 kV	1	115			10		246/271	\$10,654,759	New 115 kV circuit from Bushland to NE Hereford construction w/795ACSR
06/01/09	R2	526	52314	Pecos Interchange 115 kV	52313	Pecos Interchange 230 kV	1	230/115			0		150/172.5		New transformer to bump voltage to 230
06/01/09	R2	526	52253	Potash Junction Interchange 230 kV	52313	Pecos Interchange 230 kV	1	230			16.3		492/541	\$18,831,605	Seven Rivers to Pecos to Potash Junction 230kV
06/01/09	R2	526	52293	Seven Rivers Interchange 230 kV	52313	Pecos Interchange 230 kV	1	230			17.5		492/541		Seven Rivers to Pecos to Potash Junction 230kV
09/01/09	06/01/08	R	526	51709	Cochran	51710	Cochran	1	115/69				84/84	\$2,750,000	Upgrade both existing transformer
09/01/09	06/01/08	R	526	51709	Cochran	51710	Cochran	2	115/69				84/84		Upgrade both existing transformer
06/30/09	06/01/08	R	531	56562	Hays Plant	56562	Vine Street	1	115	0.3					Reconductor Line
06/30/09	06/01/08	R	531	56561	KNOLL 115	56591	VINE STREET	1	115		2.7			\$536,000	Tap Vine-Knoll 115 kV Line
06/30/09	06/01/08	R	531	56553	S. Hays	56562	Hays Plant	1	115	3.25					Reconductor Line
01/01/09		TS	536	57830	PECK 269.0	57783	BELL 269.0	1	69	8.23			59/59	\$2,800,000	Rebuild 8.23 mile Bell-Peck 69 kV line.
06/01/09	R2	536	57041	Evans	57047	Grant 138 kV	1	138	10.0				232/256	\$3,600,000	Build Evans - Grant 138 kV line.
06/01/09	R2	536	57047	Grant 138 kV	57035	Chisolm	1	138					232/256	\$400,000	Convert Grant - Chisolm 69 kV line to 138 kV.
06/01/09	R2	536	57047	Grant 138 kV	57799	Grant 69 kV	1	138/69					150/165	\$2,000,000	Install New Grant 138/69 kV XFMR.
06/01/09	R2	536	57799	Grant 69 kV	57800	Grant Jct	1	69	1.5				116/128	\$510,000	Rebuild Grant - Grant Jct. 69 kV line.
06/01/09	R2	536	57795	Gill Energy Center East 69 kV	57798	Gill Energy Center Jct.	1	69	3.55				116/128	\$1,250,000	Rebuild Gill Energy Center East (57795) - Gill Energy Center Jct (57798) 69 kV line.
06/01/09	R2	536	57331	King Hill	57217	Kelly	1	115	9.61				120/120	\$3,250,000	Rebuild King Hill - Kelly 115 kV line.
06/01/09	R2	536	57271	SW Lawrence	57277	Wakarusa	1	115	4.09				223/240	\$1,400,000	Rebuild SW Lawrence - Wakarusa 115 kV line.
06/01/09	R2	536	57688	Dearing 138	57002	Dearing 69	1	138/69					100/110	\$1,700,000	Install New (2nd) 138/69 XFR at Dearing (57002/57688/57089).
06/01/09	R2	536	56772	Stranger Creek 345	57268	Stranger Creek 115	1	345/115					860/816	\$8,000,000	Install New (2nd) 345/115 XFR at Stranger Creek (56772/57268/56816).
07/01/09	06/01/07	R	536	57268	Stranger Creek	57272	Thornton	1	115		7		223/245	\$2,500,000	New 115 kV Line from Stranger Creek (57268) to Thornton Street (57272).
07/01/09	06/01/07	R	536	57153	County Line	57456	County Line	1	115/69				112/123	\$1,700,000	Replace existing 66 MVA 115-69 kV transformer with 112 MVA unit
07/01/09	PL	536	56796	Wichita	57870	Reno County 7	1	345			33		1383/1468	\$42,800,000	40 mile 345 kV transmission line from existing Wichita 345 kV substation to a new 345-115 kV substation in Reno County east northeast of Hutchinson (Wichita to Reno)
07/01/09	PL	536	56771	Reno County 7	57416	Reno County 3	1	345/115					280/308		New stepdown transformer at a new substation in Reno County east northeast of Hutchinson
07/01/09	06/01/11	R2	536	57798	Gill Energy Center	57825	Oatville	1	69	3.55			96/96	\$920,000	Tear down / Rebuild 3.55-mile Gill Energy Center - Gill junction portion of the Gill - Oatville 69 kV line. Replace 477 kcmil ACSR conductor with 954 kcmil ACSR and replace terminal equipment. The new rating is the CT limit.
06/01/09	PL	540	59353	Cookingham	59247	Liberty West	1	161		4.2			223/245	\$0	161kV Tap of Nashua to Liberty West
06/01/09	PL	540	59203	Nashua	59353	Cookingham	1	161		4.2			223/245		161kV Tap of Nashua to Liberty West
06/01/09	06/01/11	R2	540	59291	Freeman	59292	Anaconda	1	69	7.8			100/107	\$7,655,500	Reconductor 69kV line from Freeman to Anaconda plus Anaconda to Harrisonville West (0.3 mile section)
06/01/09	PL	540	59224	Longview 161	59345	Sampson 161	1	161			3		223/245	\$1,250,000	161kV Tap of Longview to Grandview East
06/01/09	PL	540	59255	Lake Road 161 kV	59256	Industrial Park 161 kV	1	161		1			292/356	\$250,000	Replace existing structures to allow for higher rating
06/01/09	PL	540	59345	Sampson 161	59223	Grandview East 161	1	161		3			223/245	\$1,250,000	161kV Tap of Longview to Grandview East
06/01/09	NC3	541	57978	Craig	58038	Lenexa	1	161					513/513	\$192,000	Replace Lenexa Circuit Switcher R1-4 with 2000 Amp Breaker
06/01/09	PL	541	58121	Hillsdale	58126	Lackman	1	161			12		293/335	\$7,385,000	New Hillsdale-Lackman 161 kV Line
	06/01/09	R2	544	59537	SUB 124 - AURORA H.T.	59540	SUB 152 - MONETT H.T.	1	69				54/65	\$5,000	Change CT Ratio on breaker #6936 at Aurora #124
	06/01/09	R2	544	59539	Sub 145 - Joplin West 7th	59574	Sub 341 - Joplin NorthWest	1	69	2.25			72/72	\$668,552	Reconductor 2.25 miles of the line from 59539 to 59574 with 556 conductor.
	06/01/09	R2	544	59483	Sub 389 - Joplin Southwest	59607	Sub 422 - Joplin 24th & Connecticut	1	161				218/268	\$5,000	Change CT Ratio at Sub #389 on Breaker #16170 for 268 MVA Rate B
Year 2010															
	06/01/10	RN	151	99362	Hot Springs Mt. Ida	99345	Hot Springs Milton	1	115				497/497	\$1,230,000	Construct New 115 kV Line - Entergy Planning has identified this proposed project as construction of a new 115 kV line
	06/01/10	R2	502	50005	Bayou Rapides	50197	Twin Bridges	1	138	4.1			504/504	\$6,000,000	Reconductor Bayou Rapides to Twin Bridges 138 kV
	06/01/10	R2	502	50031	Cocodrie	50039	Coughlin	1	230/138						Replace Cocodrie 230/138 kV Auto XFMR
	06/01/10	RN	515	52660	Bull Shoals	99802	Bullshoals	1	161				195/195	\$1,500,000	Replace three 600A switches @ Bull Shoals w/ 1200 A switches. Resag conductor and replace structures as necessary to achieve 195 MW rating.
	06/01/10	R2	520	54115	Duncan	54116	Duncan	1	138/69				93/103	\$3,000,000	Replace XF with 93/103 MVA lead time 18 Months cost \$1,800,000
	06/01/10	R2	520	53172	East Centerton	53133	East Centerton	1	345/161				675/675	\$7,425,000	New 345/161 kV Auto
05/01/10	TS	520	55930	Hugo Power Plant 345	54037	valliant 345 kV	1	345					956/956	\$2,500,000	Install 345 kV terminal equipment at Valliant substation
06/01/10	TS	520	54110	Clinton City	54185	Foss Tap	1	69					72/79	\$75,000	Replace Wave trap at Clinton City Substation
06/01/10	06/01/13	R2	520	53540	Gregton	53562	Lake Lamond	1	69		2.66		136/136	\$1,496,000	Reconductor line with 1272 ACSR
	06/01/10	R2	520	53172	Bainford Tap	53174	Bainford	1	161				429/597	\$1,100,000	Tap South Springdale to East Fayetteville Rec 161 kV line and install 1.4 miles to Bainford the location of a new distributor substation. This project will transfer (18 MW) from Springdale (53130) and (10 MW) from South Springdale (53159)

In-Service Date	2006 Expansion Plan Date	Project type EXP	SPP Area	"From" Bus Number used in SPP MDWG	From Bus Name	"To" Bus Number used in SPP MDWG	To Bus Name	Circuit	Voltages (kV)	# of Reconnector	# of New	# of Voltage Conversion	Summer Rating Normal/Energy	Cost Estimate	Project Description/Comments
06/01/10		R2	520	53518	Carthage	53597	Rock Hill	1	69				59/68	\$650,000	Replace six (6) switches, Carthage Breaker # 6500 & Reset Carthage & Rock Hill CTs. Reset Rock Hill relay setting.
06/01/10		R2	520	53255	Daingerfield	53268	Jenkins Rec T	1	69				65/76	\$250,000	Replace Daingerfield Breaker # 1M90 & reset relays
06/01/10		R2	520	53140	Flint Creek	53172	East Centerton	1	345		22		1011/1176	\$23,685,000	New 345 kV Line
06/01/10		R2	524	55300	Fort Smith 161 kV	55345	Colony 161 kV	1	161	2,2			446/446	\$2,137,500	Reconductor 2.2 miles to Drake ACCC/TW and change terminal equipment at Ft. Smith & Colony to 2000A
06/01/10		PL	524	53208	Fitzhugh	53237	Helberg	1	161			5	313/359	\$1,416,000	Conversion from 69kV to 161kV
06/01/10		PL	524	55353	Great Lakes Carbon	55352	Altus	1	161			2	134/143	\$543,000	Conversion from 69kV to 161kV
06/01/10		PL	524	55352	Altus	53208	Fitzhugh	1	161			2	134/143	\$660,000	Conversion from 69kV to 161kV
06/01/10		PL	524	55355	Igo	55354	Noark	1	161			10	134/143	\$2,994,000	Conversion from 69kV to 161kV
06/01/10		PL	524	55355	Igo	55356	Razorback	1	161			10	134/143	\$2,850,000	Conversion from 69kV to 161kV
06/01/10		PL	524	55319	Little Spadra	55365	Igo	1	161			7	226/259	\$2,112,000	Conversion from 69kV to 161kV
06/01/10		PL	524	55354	Noark	55353	Great Lakes Carbon	1	161			2	134/143	\$522,000	Conversion from 69kV to 161kV
06/01/10		PL	524	55177	Park Lane	55187	Ahioso Tap	1	69				97/111	\$50,000	Relay upgrade
06/01/10		PL	524	55328	Igo	55331	Razorback	1	161		10		134/143	\$2,973,000	Conversion from 69kV to 161kV
06/01/10		PL	524	55358	Short Mountain	55316	Branch	1	161		11		134/143	\$3,231,000	Conversion from 69kV to 161kV
05/01/10		TS	525	55930	Hugo Power Plant 345	54037	valliant 345 kV	1	345		19		956/956	\$11,000,000	Install new line from Valliant 345 kV to Hugo Power Plant with 19 miles of bundled 795 ACSR conductor
05/01/10		TS	525	55930	Hugo Power Plant 345	55948	HugoPower Plant	1	345/138				500/500	\$5,000,000	Install new 345/138 kV XF
06/01/10		PL	526	51360	Cox	51518	Floyd	1	115		24		157/173	\$7,150,000	
06/01/10	06/01/07	TS	526	51517	Floyd Co	51518	Floyd Co	2	115/69				84/84	\$1,375,000	Upgrade both existing transformer
06/01/10	06/01/08	R	526	51094	NE Hereford	51095	NE Hereford	2	115/69				84/84	\$1,750,000	Add second 115/69 kV transformer
12/01/10	06/01/07	R	526	52153	Artesia	52154	Artesia	1	115/69				84/96	\$2,750,000	Upgrade both existing transformer
12/01/10	06/01/07	R	526	52153	Artesia	52154	Artesia	2	115/69				84/96	\$2,750,000	Upgrade both existing transformer
12/01/10	06/01/11	R2	526	50914	Nichols	50915	Nichols	1	230/115				225/259	\$6,000,000	Upgrade both transformers
06/01/10		R2	526	52094	Roswell Interchange 115 kV	52093	Roswell Interchange 69 kV	2	115/69				84/84	\$1,375,000	Add second xlmr at Rosewell
06/01/10		R2	526	51890	Yoakum County Interchange 115 kV	51891	Yoakum County Interchange 230 kV	1	230/115				250/289	\$3,000,000	Upgrade Transformer 230/115 kV 252 MVA
12/01/10		PL	534	56393	Plymell	56392	Pioneer Tap	1	115	14			185/222	\$2,380,000	Holcomb to Pioneer Tap Rebuild
06/01/10	06/01/11	R2	534	56448	Holcomb	56393	Plymell	1	115	11			185/222	\$1,980,000	Holcomb to Pioneer Tap Rebuild
06/01/10		PL	534	56433	Scott City	56362	Manning Tap	1	115	10			165/198	\$1,500,000	Scott City to Ness City Rebuild
06/01/10	06/01/10	R2	536	57736	Halstead	57744	Mud Creek Junction	1	69	7.3			116/128	\$2,500,000	Tear down / Rebuild 12.3-mile Halstead - Mud Creek - Mid America - Newton 69 kV line. Replace 336.4 kcmil ACSR conductor with 954 kcmil ACSR conductor and replace terminal equipment at substations.
06/01/10	06/01/10	R2	536	57824	Oaklawn	57826	Oliver	1	69	2.11			116/128	\$483,000	Tear down / Rebuild 1.91-miles of Oaklawn - Oliver 69 kV line replacing 477 kcmil ACSR conductor with 954 kcmil ACSR conductor. Limit would be 0.2-mile 750 kcmil CU underground cable.
06/01/10		R2	536	57278	95th & Waverly	57235	Captain Junction	1	115	7.61			223/240	\$2,600,000	Rebuild 95th & Waverly - Captain Jct 115 kV line.
06/01/10		R2	536	57421	Hutchinson Gas Turbine Station	57413	Circle	1	115	0.23			223/240	\$300,000	Rebuild Circle - HEC GT 115 kV line.
06/01/10		PL	536	57152	Circleville	57331	King Hill	1	115	15.15			223/240	\$5,200,000	Rebuild Circleville - King Hill 115 kV line.
07/01/10		PL	536	56991	Weaver	57604	Weaver	1	138/69				100/110	\$1,200,000	Rebuild Weaver #2 at Weaver, Project deferred due to pending transmission service issues with the City of Augusta - if the City takes full requirements firm transmission service, then the transformer is needed.
06/01/10		R2	536	57244	Jarbalo	57249	Lawrence Energy Center Unit 4	1	115	3.73			223/240	\$1,300,000	Rebuild Lawrence Energy Center Unit 4 - Jarbalo 115 kV line.
06/01/10		R2	536	57413	Circle	57429	Moundridge	1	115	17.12			223/245	\$5,800,000	Rebuild Circle -- Moundridge 115 kV
06/01/10		R2	536	57182	Tecumseh Hill	57270	Stull	1	115	9.84			223/240	\$3,300,000	Rebuild Tecumseh Hill - Stull Tap 115 kV line.
06/01/10		R2	536	57013	Moundridge	57429	Moundridge	2	138/115				100/110	\$1,700,000	Install New (2nd) 138/115 kV XFR at Moundridge (57429/57013). Operate both 138/115 kV XFRs normally closed.
06/01/10	06/01/08	PL	540	59346	Ritchfield 161	59202	Sibley 161	1	161		15		223/245	\$1,250,000	161kV Tap of Hallmark to Sibley
06/01/10		R	540	59205	Blue Springs East 161 KV	59325	Duncan Road 161 KV	1	161	2.5			446/558	\$1,605,500	Upgrade to conductor Bundled Drake
06/01/10		PL	540	59303	Clinton 161	59302	Clinton Green St	1	69	1			100/107	\$441,000	Reconductor with 795ACSR
06/01/10		PL	540	59303	Clinton 161	59301	Clinton Plant	1	69	2			100/107	\$450,000	Reconductor with 795ACSR
06/01/10		PL	540	59215	Hallmark 161	59346	Ritchfield 161	1	161		2		223/245	\$1,250,000	161kV Tap of Hallmark to Sibley
06/01/10		PL	540	59307	Nevada Plant	59311	Nevada Tap	1	69	3			100/107	\$711,000	Reconductor with 795ACSR
06/01/10		PL	541	58054	Cedar Niles		Clare	1	161	4.5			293/335	\$4,260,000	New Cedar Niles-Clare 161 kV Line & Clare substation
06/01/10		PL	541	58069	Paola	58129	Middle Creek	1	161	15			293/335	\$4,732,000	New Middle Creek sub and Paola-Middle Creek 161kV line
06/01/10		PL	541	58058	North Louisburg	58129	Middle Creek	1	161	12			293/335	\$3,650,000	New North Louisburg-Middle Creek 161kV line
06/01/10		PL	541	58030	Waldron	58656	Maywood	1	161	8			293/335	\$1,607,800	New Waldron sub cut-in
06/01/10		PL	541	58030	Waldron	58017	Weatherby	1	161		6		293/335	\$1,607,800	New Waldron sub cut-in
06/01/10	06/01/10	TS	544	TS	SUB 184 - NEOSHO SOUTH JCT.	52686	Neosho (SWPA)	1	161	1.7			/167	\$800,000	Rebuild 161 kV line from 336 ACSR to 795 ACSR and replace terminal equipment
06/01/10	06/01/11	R2	544	59400	Monett City South	59402	Monett City East	1	69	1.2			54/65	\$240,000	Reconductor 1.2 MILES with 335.4 ACSR
10/01/10		R2	546	59954	SWPS Bus	59893	SWPS #2	1	161/20				334/400	\$2,000,000	Step-Up Transformer for new SWPS #2 (DNR)
Year 2011															
06/01/11		PL	534	56362	Manning Tap	56360	Dighton Tap	1	115	14			165/198	\$2,100,000	Scott City to Ness City Rebuild
06/01/11		PL	534	56448	Holcomb	56420	Fletcher	1	115	16			165/198	\$1,500,000	Holcomb to Fletcher Reconductor
06/01/11		PL	534	56360	Dighton Tap	56359	Beeler	1	115	21			165/198	\$3,150,000	Scott City to Ness City Rebuild
06/01/11		PL	534	56359	Beeler	56456	Ness City	1	115	12			165/198	\$1,800,000	Scott City to Ness City Rebuild
06/01/11		PL	534	56469	Spearsville 345 kV Bus	58795	Spearsville 230 kV Bus	2	345/230				336/336	\$4,500,000	Second Spearsville Transformer
01/01/11		PL	536	56771	Reno County 7	56773	Summit	1	345		50.55		956 / 956	\$42,800,000	Rebuild 345 kV line from Reno county to Summit; 31 miles of 115 kV line between Circle and S Phillips would be rebuilt as double circuit with the 345 kV line to minimize ROW impacts; Substation work required at Summit for new 345 kV terminal and completion of ring bus.
01/01/11		PL	536	56771	Reno County 7	57416	Reno County 3	2	345/115				280/308		New stepdown transformer at a new substation in Reno County east northeast of Hutchinson
05/30/11	05/30/11	R2	523	54451	Claremore	54479	Claremore	3	161/69				84/105	\$2,786,894	Install 3rd 161/69kV 75MVA autotransformer at Claremore, Increase Ratings from 100% of nominal to 125% of nominal
06/01/11	06/01/11	R2	546	59906	Kickapoo	59907	Sunset	1	69	1			153/159	\$829,000	Reconductor 69kV Line
06/01/11	06/01/13	R2	536	57543	Creswell	57547	Oak	1	69	5.2			107/107	\$2,000,000	Rebuild 69 kV line.
06/01/11		PL	541	58037	Quarry		Clare	1	161		4.5		293/335	\$1,385,000	New Quarry-Clare 161 kV Line
06/01/11		PL	541	57980	Paola	58069	Paola	1	345/161				550/606	\$16,321,985	New 345/161kV transformer and 345kV line cut-in
06/01/11		R2	524	55307	3rd St			1	69				72/72	\$100,000	Upgrade trap to 600A at 3rd St. Sub. Rating=72MVA
06/01/11		R2	524	55189	ADA OC Pump 69 kV	55190	ADA OC Pump Tap 69 kV	1	69	3.28			67/72	\$1,640,000	Reconductor the line. Rating = 72MVA
06/01/11		R2	525	55810	Anadarko 69 kV	55870	Cynil 69 kV	1	69	13			817/06	\$3,120,000	Reconductor 13 miles from 336 to 795 ACSR. RateA=81MVA, RateB=106MVA
06/01/11		R2	520	53383	Hope	53374	Fulton	1	115				107/239	\$100,000	Replace conductor in Hope Substation

In-Service Date	2006 Expansion Plan Date	Project type EXP	SPP Area	"From" Bus Number used in SPP MDWG	From Bus Name	"To" Bus Number used in SPP MDWG	To Bus Name	Circuit	Voltages (kV)	# of Reconnector	# of New	# of Voltage Conversion	Summer Rating Normal/Emergency	Cost Estimate	Project Description/Comments	
06/01/11		R2	536	57697	Liberty	57685	CRA	1	69				116/128	\$75,000	Replace terminal equipment on Liberty - CRA 69 kV line.	
06/01/11		R2	524	55256	Muldrov 69 kV	55307	3rd St 69kV	1	69				72/72	\$100,000	Upgrade trap to 600A at 3rd St. Sub. Rating=72MVA	
06/01/11		R2	520	53433	North Market	53385	Arsenal Hill	1	69		2.29		113/143	\$2,300,000	Reconductor 2.29 Miles With 1272 ACSR	
06/01/11		R2	520	53580	North Mineola	53572	Mineola	1	69				72/85	\$350,000	Replace Mineola 2 Switches & Breaker	
06/01/11		R2	541	57969	Sitwell	58057	Bucynus	1	161				293/335	\$12,000	Upgrade Wavetrap at Sitwell from 800 amps to 1200 amps	
06/01/11		R2	544	59468	SUB 124 - AURORA H.T.	59480	SUB 383 - MONETT	1	69				219/268	\$5,000	CHANGE CT RATIO ON BREAKER 383	
06/01/11		R2	536	57180	Tecumseh	57182	Tecumseh Hill	1	115	0.24			446/490	\$90,000	Rebuild Tecumseh - Tecumseh Hill 115 kV line.	
06/01/11		R2	524	54988	Tinker #4 138 kV	54990	Tinker #2 138 kv	1	138				100/100	\$0	The underground cable cannot be upgraded beyond the 100MVA. OGE has protective relaying installed to mitigate this if the contingency happens. By opening the Tinker 2-Tinker 4 line should not adversely affect the transmission system. Other options would be to operate the NE10th-Glendale line normally open as it is today and reduce the flow of power on the underground cable.	
06/01/11		R2	524	54988	Tinker #4			1	138				100/100	\$0	The underground cable cannot be upgraded beyond the 100MVA. OGE has protective relaying installed to mitigate this if the contingency happens. By opening the Tinker 2-Tinker 4 line should not adversely affect the transmission system. Other options would be to operate the NE10th-Glendale line normally open as it is today and reduce the flow of power on the underground cable.	
06/01/11		R2	526	51316	Kress Interchange 115 kV	51425	KRESS INTERCHANGE TAP 115kV		115		20		157/173	\$6,000,000	Install new line from new sub to Kress Interchange	
06/01/11		R2	526	51426	KRESS INTERCHANGE TAP 230kv	51425	KRESS INTERCHANGE TAP 115kV		230/115				150/172.5	\$9,053,875	Tap Potter Co to Plant X line (bus 51426) and Add 230/115kV auto	
06/01/11		R2	525	55916	Franklin SW 69 kV	55917	Franklin SW 138 kV	1	138/69				150/150	\$1,800,000	Upgrade Franklin Auto Tr. RateA = RateB = 150 MVA	
06/01/11		R2	536	56853	Lawrence Hill 230	57250	Lawrence Hill 115	1	230/115				280/308	\$4,500,000	Install 2nd Lawrence Hill 230/115 kV XFR.	
06/01/11		R2	130	96135	Luther 138 kV	96856	Luther 69 kV		138/69				56/56	\$672,000	Add second Luther 138/69/13.8 kV transformer. 56/56/6 MVA	
06/01/11		R2	546	59911	Golden	52694	Springfield	1	69	0.1			153/159	\$46,500	Close two line between Golden and Springfield AND RECONDUCTOR BOTH LINES .08 MILES	
06/01/11		R2	546	59911	Golden	52694	Springfield	2	69	0.1			153/159	\$46,500	Close two line between Golden and Springfield AND RECONDUCTOR BOTH LINES .08 MILES	
12/01/11		RN	151		Murfreesboro S		Gum Springs	1	115						Build a switching station, Gum Springs, at the intersection of the Woodward-Degray line and the Friendship-Couch line. Construct a new 115 kV line from Gum Springs to Murfreesboro South using 1272 ACSR or equivalent conductor	
Year 2012																
06/01/12		R2	520	55261	Bonanza Tap	53137	Excelsior	1	69			6	310/361	\$6,000,000	New 161 kV from Bonanza to Excelsior (includes Bonanza station)	
06/01/12		R2	520	53137	Excelsior	53175	NewBus	1	69			8.9	310/361	\$5,300,000	Convert 69 kV to 161 kV from Excelsior to Midland record 1272 ACSR	
06/01/12		R2	520	53142	Huntington	53148	North Huntington	1	69		0.3		310/367	\$180,000	Convert 69 kV to 161 kV from North Huntington to Huntington record 1272 ACSR	
06/01/12		R2	520	53145	Midland	53175	NewBus	1	161/69				30/102	\$2,500,000	INSTALL 161/69 kV XF AT MIDLAND CONVERT LOAD AT EXCELSIOR AND MIDLAND REC	
06/01/12		R2	520	53202	Midland Rec	53142	Huntington	1	69			3.8	310/367	\$2,300,000	Convert 69 kV to 161 kV from Midland to Midland REC record 1272 ACSR	
06/01/12		R2	520	53175	NewBus	53202	Midland Rec	1	69			1.25	310/361	\$1,000,000	Convert 69 kV to 161 kV from Midland REC to Huntington record 1272 ACSR (includes Huntington station line swap)	
06/01/12		R2	520	53532	Forest Hills	53596	Quitman	1	69				71/72	\$100,000	Replace Bus & reset relays at Quitman substation	
06/01/12		RN	520	53686	Canton (Rayburn)	53669	Starr	1	138		8		265/309	\$3,600,000	Build 8 miles of 1272 ACSR from Canton (Rayburn) 53686 to Star 53669, open line from EBurges to Star.	
06/01/12		R2	526	50652	Pringle Interchange 115 kV	50650	Etter Rural Sub 115 kV		115		40		246/271	\$10,912,514	Pringle to Etter Rural 115kV Line (40 miles- 795AS, T-0-202)	
06/01/12		R2	526	51202	Roosevelt County Interchange 115 kV	51176	Curry County Interchange 115 kV		115	6			246/271	\$1,515,113	Upgrade Roosevelt to Curry 115 kV circuit w/795 ACSR	
06/01/12		PL	541	58130	Sunflower	57966	West Gardner	1	161		2		293/335	\$1,841,000	New Sunflower sub and cut-in	
06/01/12		R2	544	59526	SUB 64 - JOPLIN 10TH ST.	59539	SUB 145 - JOPLIN WEST 7TH	1	69				86/104	\$55,000	Replace Disconnect Switches and Leads on Breaker #6965 at Sub #64 and #6932 at Sub #145	
06/01/12		R2	544	96673	Jamesville	59604	SUB 415 - BLACKHAWK JCT.	1	69				73/89	\$50,000	Replace Jumpers to breaker #6950 at Blackhawk Jct	
06/01/12		PL	546	59954	Southwest	59969	Brookline	1	161	2			457/475	\$450,000	Reconductor 161kV Line	
06/01/12		PL	546	59954	Southwest	59960	Southwest Disposal	1	161	1			457/475	\$175,000	Reconductor 161kV Line	
06/01/12		PL	546	59960	Southwest Disposal	59959	Battlefield	1	161	3			457/475	\$675,000	Reconductor 161kV Line	
06/01/12		R2	546	59904	James River	59933	Twin Oaks	1	69	3			153/159	\$1,135,000	Reconductor 69kV Line	
Year 2013																
06/01/13		R2	520	53249	Bann	53273	Lonestar Ordinance Tap	1	69				65/72	\$25,000	Relay at Bann New limits will be 65/72 MVA summer (line conductor/Lone Star switch) and 72/72 MVA winter (Lone Star Switch)	
06/01/13		R2	520	53336	Wimnsboro	53278	Magnolia Tap	1	69				73/85	\$250,000	Replace switch # 9114 @. Replace switches @ Wimnsboro. Reset Cts and relay settings at Wimnsboro.	
06/01/13		RN	520	53685	Barton's Chapel (Rayburn)	53680	Barton's Chapel	1	345/138				300/300	\$6,000,000	Install new 345/138 kV XF	
06/01/13		R2	520	53528	Diana	53680	Barton's Chapel	1	345		80		896/986	\$96,000,000	New 80 miles of 345 kV from Diana-Barton's Chapel 345/138 XF	
06/01/13		R2	523	54437	412SUB	54514	KANSAS TAP 161	1	161	10			347/403	\$2,473,500	Reconductor 9.7 miles with 1590MCM ACSR.	
06/01/13		R2	523	54435	KERR 161	54437	412SUB	1	161	12			347/403	\$3,187,500	Reconductor 12.5 miles with 1590MCM ACSR	
06/01/13		R2	523	54514	Kansas Tap	54442	Siloam Springs w.	1	161	8.8			347/403	\$2,244,000	Reconductor line to 1590 ACSR, A = 347, B = 403. \$255K/mile @ 8.8 mi.	
06/01/13		R2	523	54442	Siloam Springs W.	54443	Siloam City	1	161	4.2			347/403	\$1,071,000	Reconductor line to 1590 ACSR, A = 347, B = 403. \$255K/mile @ 4.2 mi.	
06/01/13		R2	524	55128	Ratiff			1	69				72/72	\$75,000	Replace trap at Ratiff with a 600A unit. Rating: 72 MVA for summer/winter Rate A and Rate B	
06/01/13		R2	544	59527	SUB 436 - WEBB CITY CARDINAL	59534	SUB 110 - ORONOGO JCT.	1	69	4.1			54/65	\$334,427	Reconductor 1.0 Mile of 4/0 ACSR with 336 ACSR for 65 MVA Rate B	
06/01/13		R2	524	55127	Wildhorse 69 kV	55128	Ratiff 69 kV	1	69				72/72	\$75,000	Replace trap at Ratiff with a 600A unit. Rating: 72 MVA for summer/winter Rate A and Rate B	
06/01/13		R2	524	54927	HSL East 69 kV	54937	HSL West 69 kV	1	69				134/143	\$250,000	Increase rating of HSL East kV to HSL West 69 kV line to 143 MVA. Planned by OGE in 2008.	
06/01/13		R2	526	50949	Hastings Sub 69 kV	50941	North Amarillo Switching Station 69 kV		69	2				88/97	\$391,100	Recon Hastings-Vanburen
06/01/13		R2	526	50949	Hastings Sub 69 kV	50961	Van Buren Sub 1 Tap 69 kV		69	4.6				88/97		Recon North Amarillo-Hastings-Vanburen
06/01/13		R2	526	50988	Potter County Interchange 345 kV	51200	Roosevelt 345 kV		345		130		956/1052		345 kV line from Potter to Roosevelt	
06/01/13		R2	526	51203	Roosevelt County Interchange 230 kV	51200	Roosevelt 345 kV		345/230				560/560	\$38,504,390	345 kV line from Potter to Roosevelt	
06/01/13		R2	526	51202	Roosevelt County Interchange 115 kV	51203	Roosevelt County Interchange 230 kV	2	230/115				252/289	\$2,750,000	Add 2nd transformer 230/115 kV 252 MVA	
06/01/13		R2	536	57819	Minneha Jct South	57842	Sixty-Fourth (64th) 69 kV	1	69	1.99			116/128	\$680,000	Rebuild 64th - Minneha 69 kV line.	
06/01/13		R2	536	57792	Eastborough	57819	Minneha Jct South	1	69	0.61			116/128	\$207,000	Rebuild Eastborough - Minneha 69 kV line.	
06/01/11	06/01/11	R2	536	57244	Jarbalo	57233	166th Street	1	115	6.39			223/240	\$2,200,000	Rebuild Jarbalo - 166th Street 115 kV line.	

In-Service Date	2006 Expansion Plan Date	Project type EXP	SPP Area	"From" Bus Number used in SPP MDWG	From Bus Name	"To" Bus Number used in SPP MDWG	To Bus Name	Circuit	Voltages (kV)	# of Reconnector	# of New	# of Voltage Conversion	Summer Rating Normal/Emergency	Cost Estimate	Project Description/Comments
06/01/13	R2		536	57270	Stull Switching Station 115 kV	57253	Mockingbird Hill Switching Station 115 kV	1	115	6.4			223/240	\$2,200,000	Rebuild Mockingbird -Stull Tap 115 kV line.
06/01/13	R2		536	57001	Altoona 138	57673	Altoona	1	138/69				50/55	\$825,000	Replace Altoona 138/69 kV XFR (57001/57673/57087).
06/01/13	R2		536	57011	Halstead North Bus 138 kV	57736	Halstead 69 kV	1	138/69				100/110	\$1,700,000	Replace Halstead 138/69 kV XFR #4
06/01/13	R2		536	57003	Liberty	57697	Liberty	2	138/69				100/110	\$1,700,000	Install New (2nd) 138/69 kV transformer at Liberty.
Year 2014															
06/01/14	R2		520	53515	Big Sandy	53589	Perdue	1	69	5.4			123/143	\$2,700,000	New limits will be 1033 AAC jumpers for summer normal and Breaker & switches for the rest. Rebuild 5.4 miles of 477 ACSR with 1272 ACSR.
06/01/14	R2		520	54160	Weatherford Southeast	54159	Weatherford Southeast	1	138/69				93/103	\$1,800,000	REPLACE WEATHERFORD TRANSFORMER
06/01/14	R2		520	53415	Haughton	53441	Red Point	1	138		3.2		368/512	\$4,200,000	Convert Red Point-Haughton to 138 kV. 1590 ACSR (includes Red Point terminal & Haughton station conversion)
06/01/14	R2		520	53427	Modade	53415	Haughton	1	138		11.3		368/512	\$7,000,000	Convert Haughton-McDade to 138 kV. 1590 ACSR (includes McDade station conversion)
06/01/14	R2		520	53486	Port Robson	53427	McDade	1	138		14		368/512	\$9,800,000	New 138 kV line from Port Robson to McDade (includes Port Robson terminal)
06/01/14	R2		520	53461	Wallace Lake	53486	Port Robson	1	138		6		368/512	\$3,000,000	New 138 kV line from Wallace Lake to Finney Tap (includes Wallace Lake terminal)
06/01/14	R2		520	53547	Howell	53554	Kilgore	1	69	3.49			52/69	\$2,000,000	Rebuild 3.49 miles of 4/0 ACSR with 795 ACSR.
06/01/14	R2		520	53299	Nw Texarkana-Bann T	53250	Bann	1	138				293/340	\$25,000	Reset relays. New limits will be 2-477 ACSR line conductor & Bann breaker
06/01/14	R2		520	53199	Lincoln Rec	53151	Prairie Grove	1	69			4.2	310/361	\$3,700,000	Convert Lincoln REC-Prairie Grove 69 to 161 kV reconnector 1272 ACSR. (including Prairie Grove station conversion)
06/01/14	R2		520	53178	NewBus	53157	South Fayetteville	1	69			4.7	310/361	\$3,600,000	New 161 kV line section from S Fayetteville to Greenland 1272 ACSR. (including South Fayetteville terminal)
06/01/14	R2		520	53151	Prairie Grove	53178	NewBus	1	69			8.6	310/361	\$5,200,000	Convert Prairie Grove-Greenland 69 to 161 kV reconnector 1272 ACSR.
06/01/14	R2		520	53158	Siloam Springs	53199	Lincoln Rec	1	69			16.4	310/361	\$11,000,000	Convert Siloam Springs to Lincoln REC from 69 to 161 kV reconnector 1272 ACSR. (including Siloam Springs terminal)
06/01/14	R2		525	55942	Hamon Butler 69 kV	56000	Morewood 69 kV	1	69	14.6			65/85	\$3,504,000	Reconnector 14.6 miles from 1/0 to 556 ACSR. RateA=65MVA, RateB=89MVA
06/01/14	R2		526	51176	Curry County Interchange	51242	Curry County Interchange	1	115		37		157/173	\$11,148,185	37 mile 115 kV 397 ACSR circuit between Balley and Curry.
06/01/14	R2		526	51952	San Andress Sub 115 kV	51968	Mustang Station S. 115 kV	1	115		3		179/197	\$1,742,892	Terminate V53 at Mustang instead of Denver City - 3 mi of new 115 kV circuit. Mustang-San Andr-Amerada Hess 115 kV
06/01/14	R2		526	50051	Graves County Tap 115 kV	50835	Graves Sub 69 kV	1	115/69				40/40	\$2,500,000	Install 115/69 kV Graves XF
06/01/14	R2		526	50054	State Line 230 kV	50055	State Line Tap 115kV	1	230/115		17		150/150	\$4,374,496	BUILD NEW 115 TO GRAVES & MODIFY 69 kV BUS
06/01/14	R2		526	50055	State Line Tap 115kV	50051	Graves County Tap 115 kV	1	115				54/54	\$5,600,000	INSTALL NEW 230/115 kV XF AT STATE LINE OF OK AND TEXAS
06/01/14	R2		536	57044	Gill Energy Center East 138 kV	57051	Interstate	1	138				232/232	\$50,000	Replace wave traps on Gill - Interstate 138 kV line.
06/01/14	R2		536	57733	Gatz	57745	Newton	1	69				116/128	\$20,000	Reset CTs on Moundridge - Newton 69 kV line (multiple rating changes).
06/01/14	R2		536	56794	Rose Hill 345 kV	57062	Rose Hill 138 kV	1	345/138				400/440	\$5,000,000	Install 3rd Rose Hill 345/138 kV XFR.
06/01/14	R2		544	59545	SUB 217 - FAIRPLAY EAST	59612	SUB 602 - BOLIVAR PLANT	1	69	7.653			48/48	\$2,636,153	Reconnector 7.653 miles of 69kV from 1/0 CU to 336 ACSR
06/01/14	R2		544	59585	SUB 368 - DADEVILLE EAST	59545	SUB 217 - FAIRPLAY EAST	1	69	4.822			48/48	\$1,660,986	Reconnector 4.822 miles of 69 kV from 1/0 CU to 336 ACSR
06/01/14	R2		544	59542	SUB 170 - NICHOLS ST.	59576	SUB 345 - REPUBLIC NORTHEAST	1	69	9.712			75/92	\$4,550,000	Reconnector 9.712 Miles of 1/0 CU between Sub #170 and Sub #345 and reconnector 5.152 miles of 1/0 CU between Sub #345 and Sub #359 with 556 ACSR for 65 MVA Rate B
06/01/14	R2		544	59576	SUB 345 - REPUBLIC NORTHEAST	59580	SUB 359 - REPUBLIC EAST	1	69	5.152			75/92	\$4,550,000	Reconnector 9.712 Miles of 1/0 CU between Sub #170 and Sub #345 and reconnector 5.152 miles of 1/0 CU between Sub #345 and Sub #359 with 556 ACSR for 65 MVA Rate B
06/01/14	R2		544	59438	SUB EXPLORER SPRING CITY TAP	59592	SUB 389 - JOPLIN SOUTHWEST	1	69	2.95			54/65	\$708,480	RECONNECTOR 2.95 MILES 1/0 CU WITH 556 ACSR
Year 2015															
06/01/15	RN		130	59216	Butler (MPS)	96689	Butler (AECI)	2	161/69				56/56	\$0	New 69 kV Line from Ft. Scott (57635) to Butler (96689), and 2nd 161/69 kV transformer at Butler.
06/01/15	R2		520	53132	East Centerton	53190	Bentonville	1	69		2.5		133/143	\$1,300,000	Install 2.5 miles of 69 kV line from E Centerton to Bentonville
06/01/15	R2		520	53139	FLINT CREEK 161kV	53187	GENTRY REC	1	161		1.09		446/552	\$1,000,000	RECONNECTOR 1.09 MILES OF 2-397 ACSR WITH 2156 ACSR FROM FINIT CREEK TO GENTRY 161 kV
06/01/15	R2		520	53596	Quidner	53616	Westwood	1	69		3.91		52/68	\$1,600,000	Reconnector 2.91 miles of 2/0 with 336 ACSR remaining 1.59 miles 336 ACSR
06/01/15	R2		520	54098	Snyder	56052	Snyder	1	138				118/154	\$0	Connect AEP SNYDER TO WEFC SNYDER
06/01/15	R2		520	53512	Baldwin	53563	Karnack Tap	1	69	9.6			72/83	\$6,000,000	Reconnector with 9.6 miles 477 ACSR 69 Kv Woodlawn-Baldwin-Karnack. Reset relays.
06/01/15	R2		520	53512	Baldwin	53621	Woodlawn	1	69	9.6			72/83	\$6,000,000	Reconnector with 9.6 miles 477 ACSR 69 Kv Woodlawn-Baldwin-Karnack. Reset relays.
06/01/15	R2		520	55055	Maud	54002	Fixico Tap	1	138		11.83		191/191	\$8,900,000	aeepw-New limits will be OG&E wavetrap & CTs aeepw-Rebuild 11.83 miles of 3/0 shielded Copperweld with 795 ACSR okge-The limit of this line is the 3/0 CW conductor that is owned by AEP. OGEs lowest rating is a 800A CT which is above the conductor rating of Summer A - 88MVA, Summer B - 107MVA and Winter A/B at 107MVA. okge-Upgrade the CT ratio to 800A
06/01/15	R2		524	55235	Pecan Creek 345 kV	55234	Pecan Creek 161 kV	1	345/161				370/370	\$6,000,000	Add 2nd 345/161/13.8 kV 369MVA transformer
06/01/15	R2		524	55055	Maud 138 kV	54002	Fixico Tap 138 kV	1	138	11.83			191/191	\$1,000,000	Reconnector 11.83 miles of 3/0 shielded Copperweld with 795 ACSR/AEP/ Upgrade CT Ratio to 800A OGE
06/01/15	R2		524	55120	Russell 138 kV	55147	Glasses	1	138				133/153	\$150,000	Increase CTR at Russell. Rate A:133MVA, Rate B:153 MVA
06/01/15	R2		525	55670	Cynth	55593	MEDICINE PARK JCT	1	69		3		61/106	\$750,000	Reconnector 3 miles of 336 ACSR to 795 ACSR
05/01/15	R2		525	55099	Mooreland 138	55819	Mooreland 345	1	345/138		25		448/448	\$5,000,000	New 345/138 kV line at Mooreland
05/01/15	R2		525	56469	SPEARVILLE	55819	Mooreland 345	1	345		56		1195/1195	\$29,000,000	New 345 kV line from Mooreland to Kansas Stateline
06/01/15	R2		525	55819	Mooreland 345	50888	Potter County Interchange 345 kV	1	345		0		956/1052	\$2,500,000	Assumes that Speaville to Mooreland is in service. Terminal equipment
06/01/15	R2		526	50888	Potter County Interchange 345 kV	50887	Potter County Interchange 230 kV	1	345/230				560/560	\$8,723,217	New 345 kV circuit & 345/230 kV 560 MVA transformer
06/01/15	R2		526	55819	Mooreland 345	50888	Potter County Interchange 345 kV	1	345		240		956/1052	\$61,850,000	Assumes that Speaville to Mooreland is in service. Mooreland Substation estimates to be provided by SPP. New 345 kV line from Potter to Mooreland on wooden h-frame structures.
06/01/15	R2		526	51366	Lighthouse REC-Cox Interchange 115 kV	51360	Cox Interchange 115 kV	1	115	0.1			146/161	\$4,522	Reconnector From Cox3-LH Cox-Hale Co
06/01/15	R2		526	51366	Lighthouse REC-Cox Interchange 115 kV	51402	Hale Co Interchange 115 kV	1	115	19.7			146/161	\$890,921	Reconnector From Cox3-LH Cox-Hale Co
06/01/15	R2		531	56618	Huntsville	56624	St. John	1	115	26.55			223/245	\$7,965,000	Rebuild Huntsville - St. John 115 kV line and replace CT, wavetrap, breakers, and relays.
06/01/15	R2		531	57419	Hutchinson Energy Center	56618	Huntsville	1	115	28.79			223/240	\$8,637,000	Rebuild HEC - Huntsville 115 kV line and replace CT, wavetrap and relays.
05/01/15	R2		534	56469	SPEARVILLE	55819	Mooreland 345	1	345		84		1195/1195	\$43,000,000	New 345 kV line from Spearville to Oklahoma Stateline
06/01/14	R2		536	57233	166th Street	57243	Jaggard Jct	1	115	4.51			223/240	\$1,500,000	Rebuild 166th Street - Jaggard Junction 115 kV line.
06/01/15	R2		536	57362	Chapman	57323	Clay Center Junction 115 kV	1	115				72/72	\$10,000	Upgrade CT ratio on Chapman - Clay Center 115 kV line.
06/01/15	R2		536	57250	Lawrence Hill	57280	Wren	1	115	3.43			223/240	\$1,400,000	Rebuild Lawrence Hill - Wren 115 kV line.
06/01/15	R2		536	57756	Aquarius	57764	Hudson Jct.	1	69				80/80	\$40,000	Replace 69 kV disconnect switches at Aquarius.

In-Service Date	2006 Expansion Plan Date	Project type EXP	SPP Area	"From" Bus Number used in SPP MDWG	From Bus Name	"To" Bus Number used in SPP MDWG	To Bus Name	Circuit	Voltages (kV)	# of Reconnector	# of New	# of Voltage Conversion	Summer Rating Normal/Emergency	Cost Estimate	Project Description/Comments
06/01/15		R2	536	57765	Litchfield	57756	Aquarius	1	69/				80/80		Replace 69 kV disconnect switches at Aquarius.
06/01/15		R2	536	57635	Fort Scott	96689	Butler (AECI)	1	69		20		116/128	\$3,000,000	New 69 kV Line from Ft. Scott (57635) to Butler (96689), and 2nd 161/69 kV transformer at Butler.
06/01/15		R2	539	58765	Greenleaf 115 KV	57323	Clay Center Junction 115 KV	1	115		16		83/89.6	\$7,520,000	Building a new 115 kV tie with Westar from Greenleaf to Clay Center
06/01/15		R2	541	58015	Avondale	58016	Gladstone	1	161				293/335	\$12,000	Upgrade Wavetrap at Gladstone from 800 amps to 1200 amps
06/01/15		R2	546	59928	NORTON	59930	NEERGRD	1	69	3			103/108	\$1,881,000	Reconductor 69kV Line
Year 2016															
06/01/16		R2	520	53276	Lone Star South	53311	Pittsburg	1	138				280/331	\$300,000	Replace wavetraps at both ends. Reset CTs @ Lone Star South. Replace switches & reset relays @ Pittsburg
06/01/16		R2	520	53530	EVENSIDE	53583	NORTHWEST HENDERSON 69KV	1	69				65/76	\$200,000	REPLACE BREAKER EVENSIDE ON NW HENDERSON LINE
06/01/16		R2	520	53583	Northwest Henderson	53595	Poynter	1	69	3.22			69/89	\$1,800,000	Rebuild 3.22 miles of 397 ACSR with 795 ACSR.
06/01/16		R2	523	54500	WAGONER 161	54497	WAGONER 69	2	161/69				75/84	\$2,786,894	Install second Waggnor 161/69 kV 75MVA transformer
06/01/16		R2	523	54426	Maid	54481	Pryor Foundry South	1	69	1.4			148/184	\$370,530	Reconductor 69 kV Line to 1272 ACSR 150MVA
06/01/16		R2	523	54426	Maid	54481	Redden	1	69	1.3			148/184	\$370,530	Reconductor 69 kV Line to 1272 ACSR 150MVA
06/01/16		R2	524	55178	Park Lane	55044	Seminole	1	138				382/382	\$500,000	Replace 1200CT and 1600 Amp switch with 2000Amp equipment
06/01/16		R2	524	54742	Osage 69 kV	54763	Continental Black 69 kV	1	69	0.57			134/143	\$200,000	Rebuild & Reconductor 0.57 Miles of 477AS33 to 477 ACCC/TW
06/01/16		R2	524	55335	Kilgore 69 kV	55336	VBI 69 kV	1	69				72/72	\$90,000	Increase the 400A trap at VBI to 600A. The new Summer & Winter Rate A & B is 72MVA.
06/01/16		R2	525	54111	WFEC Russell 138 kV	56043	AEP Altus Jct Tap 138 kV	1	138				143/143	\$50,000	Replace CT at WFEC Russell
06/01/16		R2	525	56022	Paoli 69 kV	56023	Paoli 138 kV	1	138/69				70/70	\$1,500,000	Upgrade transformer to 70 MVA
06/01/16		R2	525	55911	Fletcher	55990	Marlow Jct	1	69	8			81/106	\$2,000,000	Reconductor 8 miles of 336.4 ACSR with 795 ACSR
06/01/16		R2	526	51804	Lynn County Interchange 115 kv	51803	Lynn County inerchange	3	115/69				40/40	\$1,375,000	Replace Lynn transformer with 84 MVA
06/01/16		R2	526	51833	Lynntegar REC-Brownfield 69 kV	51829	Terry County Interchange 69 kV		69	5.9			88/88	\$1,420,000	Brownfield-Terry_CO_Recond rating 88
06/01/16		R2	526	51534	TUCO Interchange 345 kv	51532	TUCO Interchange 115 kv	1	345/115				336/436	\$10,318,679	Install new 345/115 XF on 345kV bus at TUCO Interchange
06/01/16		R2	536	57243	Jaggard Jct	57261	Pentagon	1	115	5.55			223/240	\$1,900,000	Rebuild Jaggard Junction - Pentagon 115 kv line.
06/01/16		R2	536	57815	Mead	57829	Plaza	1	69				94/94	\$60,000	Replace substation bus and jumpers on Mead - Plaza 69 kv line.
06/01/16		R2	541	57985	Northeast	57990	Crosstown	1	161				259/259	\$650,000	Install series Reactor at Crosstown (r=.0003, x=.0012)
06/01/16		R2	544	59533	SUB 109 - ATLAS JCT.	59532	SUB 108 - CARTHAGE NORTHWEST	1	69	3.5			54/65	\$1,277,935	Reconductor 3.497 Miles of 4/0 ACSR with 336 ACSR for 65 MVA Rate B
06/01/16		R2	544	59540	SUB 152 - MONETT H.T.	59591	SUB 383 - MONETT		69	2			54/65	\$425,000	Reconductor 2 miles of 69KV MONNETT sub 152 to MONNETT sub 383
06/01/16		R2	544	59558	SUB 291 - BAXTER SPRINGS 12TH ST.	59602	SUB 406 - RIVERTON SOUTH	1	69				48/61	\$5,000	Change CT settings for Breaker #6957 at Sub #271 for a new rating of 61 MVA
06/01/16		R2	544	59480	SUB 383 - MONETT 161kV	59450	MONETT 5 161kV		161		9.2		218/268	\$7,369,319	Install new line from Sub #383 to new Sub MONETT 5. Install 3-wind transformer from 161 kV new bus to Monett city south 69kV
06/01/16		R2	544	59525	SUB 59 - JOPLIN 26TH ST.	59551	SUB 258 - GATEWAY SOUTH	1	69	1.6			86/104	\$384,000	Reconductor 1.6 miles of 69kV Joplin sub 59 to GAT sub 258 with same conductor as 69kV Joplin sub 64 to Joplin sub 145
06/01/16		R2	544	59520	JOPLIN 59 161 kV	59525	SUB 59 - JOPLIN 26TH ST. 69kV		161/69				100/100	\$9,200,000	Install 3-wind transformer from 161 kV Joplin 59 bus to Sub #59 Joplin 26th St.
06/01/16		R2	544	59450	MONETT 5 161kV	59400	Monett City South 69kV		161/69				100/100	\$8,000,000	Install new line from Sub #383 to new Sub MONETT 5. Install 3-wind transformer from 161 kV new bus to Monett city south 69kV
06/01/16		R2	544	59520	JOPLIN 59 161 kV	59498	SUB 439 - STATELINE	1	161		6		218/268	\$7,182,217	Install new line from Sub #439 to new Sub Joplin 59.
06/01/16		R2	546	59969	Brookline	59955	Junction 161	1	161	3.4			457/475	\$1,344,000	Reconductor 1192 AAC with 1158.4 ACSS/TW 3.4 MILES
06/01/16		PL	546	59959	Battlefield		Sunset	1	161		2.9		/		New 161 kv line
06/01/16		PL	546		Sunset	59907	Sunset	1	161/69				200/200		New 161 kv line

In-Service Date	2006 Expansion Plan Date	Project Type Exp	SPP Area	Device Type	SPP MDWG Bus Number	Location	Voltage	Total Rating	Cost Estimate	Project Description
Year 2006										
06/01/06		R	520	Cap Bank	53386	Arsenal Hill	138	50.4 Mvar	\$432,000	Install switched capacitor bank
06/01/06		R	520	Cap Bank	53802	Catoosa	138	57.6 Mvar	\$394,000	Install switched capacitor bank
12/31/06	06/01/11	NC3	524	Cap Bank	55150	Caney Creek	138	30 Mvar	\$346,736	Install 30MVAR of 138kV capacitors at Caney Creek
07/31/06		NC3	524	Cap Bank	55171	Chickasaw	138	31 Mvar	\$361,533	Install 30MVAR of 138kV capacitors at Chickasaw
06/01/06		R	525	Cap Bank	56041	Rush Spring 69 kV	69	3 Mvar	\$90,000	Install switched cap
12/31/06		PL	534	Cap Bank	56357	Ruleton3	115	12 Mvar	\$500,000	
02/02/06		R	536	Cap Bank	57767	Mulbery	69	9.6 Mvar	\$390,000	Install switched capacitor bank
12/31/06		R	536	Cap Bank	57036	Clearwater	138	15 Mvar	\$1,000,000	Install switched capacitor bank at the new Clearwater 138 kV substation
12/31/06		R	536	Cap Bank	57559	UDALL 2	69	10 Mvar	\$525,000	Install switched capacitor bank
06/01/06		PL	539	Cap Bank	58772	East Liberal	115	36 Mvar	\$600,000	3x(+,-)4 Mvar Statcom at the 34.5 kV bus, and one 24 Mvar cap bank at the 115 kV bus of East Liberal
09/01/06		R	539	Cap Bank	58786	Plainville	115	8 Mvar	\$3,000,000	8Mvar Statcom at 34.5 kV bus
08/01/06		PL	540	Cap Bank	59228	WburgE 5 161.0	161	40 Mvar	\$600,000	Install 40 MVAR capacitor at Warrensburg East 161kV bus
Year 2007										
	06/01/07	RN	502	Cap Bank	50120	Many	138	28.8 Mvar	\$622,080	Install 28.8 Mvar cap at Many bus 138 kV # 50120
06/01/07		PL	520	Cap Bank	53795	Riverside Station	138	100 Mvar	\$0	Replace transformer at Riverside Station, Cost included in Tulsa Project cost
06/01/07		PL	520	Cap Bank	53800	Tulsa Power Station	138	100 Mvar	\$0	Replace transformer at Riverside Station, Cost included in Tulsa Project cost
	06/01/07	R	520	Cap Bank	53728	Broken Arrow Water	69	6 Mvar	\$550,000	Install 6 MVA Cap at Broken Arrow water 6 MVAR
	06/01/07	R	520	Cap Bank	54128	Hobart	69	4.8 Mvar	\$550,000	Install 4.8 MVAR cap at Hobart 54128
06/15/07		NC3	524	Breakers		Various			\$2,827,000	Replace over dutied breakers at various substations. Year 1 of a 3 year project
12/01/07		NC3	524	Cap Bank	54743	Osage	138	32 Mvar	\$336,089	Install 30MVAR of 138kV Capacitors at Osage
12/31/07		NC3	524	Cap Bank	54714	Woodring	138	30 Mvar	\$336,089	Install 30MVAR of 138kV capacitors at Woodring
	04/01/07	R	525	Cap Bank	56051	Snyder	69	24 Mvar	\$100,000	Upgrade 12 Mvar cap bank at Snyder to 24Mvar
	04/01/07	R	525	Cap Bank	56028	Pink Southwest	138	6 Mvar	\$216,000	Install 6 MVAR capacitor at Pink Southwest 138 kV bus
	06/01/07	R	525	Cap Bank	55864	Comanche	138	12 Mvar	\$350,000	Install 12 MVAR Capacitor at Comanche 138 kV bus
	06/01/07	R	525	Cap Bank	55847	Cashion	69	6 Mvar	\$108,000	Install 2 - 3 MVAR capacitors at Cashion 69 kV bus
06/01/07		TS	526	Cap Bank	51647	Carlisle Interchange	230	50 Mvar	\$900,000	50 MVAR Shunt Capacitors on 230 kV bus at Carlisle
06/01/07		PL	526	Cap Bank	52072	Chaves County Interchange	115	28.8 Mvar	\$500,000	
06/01/07		TS	526	Cap Bank	51681	LUBS	230	50 Mvar	\$750,000	50 MVAR Shunt Capacitors on 230 kV bus at Lubbock South
06/01/07		TS	526	Cap Bank	51533	Tuco Interchange	230	100 Mvar	\$1,600,000	2 50 MVAR Shunt Capacitors on 230 kV bus at TUCO
	06/01/07	R	526	Cap Bank	51952	San Andress Sub	115	14.4 Mvar	\$750,000	Install 1 - 14.4 Mvar cap bank on the 115 kV bus at San Andress
06/01/07	06/01/07	R	536	Cap Bank	57005	NE Parsons	138	30 Mvar	\$1,000,000	Install switched capacitor bank
	06/01/07	R	536	Cap Bank	57481	Nortonville	69	15 Mvar	\$564,000	Install 15 Mvar cap at Nortonville 69 kV (bus #57481)
07/01/07	06/01/07	R	536	Cap Bank	57704	Parsons	69	10 Mvar	\$525,000	Install switched capacitor bank
06/30/07	06/01/12	R2	536	Cap Bank	57485	Wathena	69	10 Mvar	\$525,000	Install switched capacitor bank
06/01/07		R	541	Cap Bank	58063	S. Waverly 161 kV	161	15 Mvar	\$611,000	Install 15 Mvar capacitor at S. Waverly 161 kV bus.
06/01/07		PL	546	Cap Bank	59907	Sunset	69	30 Mvar	\$550,000	30 Mvar Capacitor Bank at Sunset
Year 2008										
	06/01/08	RN	515	Cap Bank	52646	Glencoe	161	25 Mvar	\$540,000	Install 25 MVAR Cap a Glencoe
	06/01/08	R	526	Cap Bank	50819	Bowers	69	14.4 Mvar	\$300,000	INSTALL 14.4 MVAR CAP BOWERS 69 KV
06/01/08		TS	526	SVC	51533	Tuco Interchange	230			Add +150/-50 SVC on 230 kV bus at TUCO
06/30/08	06/01/07	R	536	Cap Bank	57844	Sunset	69	10 Mvar	\$525,000	Install 10 Mvar cap at Sunset 69 kV (bus # 57844)
Year 2009										
	06/01/09	R2	526	Cap Bank	51564	Crosby	69	14.4 Mvar	\$500,000	Install 2-14 MVAR cap at Crosby
06/01/09		R2	540	Cap Bank	59277	Warsaw 269.0	69	12 Mvar	\$409,000	Install 12 MVAR capacitor at Warsaw 69 kV bus
06/01/09		PL	541	Cap Bank	57978	Craig 161kV	161	50 Mvar	\$517,000	New Craig 50Mvar cap bank
Year 2010										
	06/01/10	R2	502	Cap Bank	50131	Natchitoches	138	28.8 Mvar	\$622,080	Install 28.8 Mvar cap at Natchitoches 138 kV bus # 50131
07/01/10	07/01/10	R2	536	Cap Bank	57670	CRRM	69	13 Mvar	\$500,000	Install switched capacitor bank
07/01/10	06/01/08	R	536	Cap Bank	57435	3rd & VanBuren	115	17 Mvar	\$500,000	Install switched capacitor bank
06/01/10		PL	546	Load Substation	59963	Mentor Substation	161	28 MVA	\$3,500,000	Install New 28 MVA Load Transformer at a new substation.
Year 2011										
	06/01/11	R2	523	Cap Bank	54445	Newport 69 kV	69	14.4 Mvar	\$311,040	Install 2 - 7.2 MVAR capacitors at Newport 69 kV bus

In-Service Date	2006 Expansion Plan Date	Project Type Exp	SPP Area	Device Type	SPP MDWG Bus Number	Location	Voltage	Total Rating	Cost Estimate	Project Description
	06/01/11	R2	523	Cap Bank	54524	Pyramid Corners 69 kV	69	7.2 Mvar	\$155,520	Install 2 - 3.6 MVAR capacitors at Pyramid Corners 69 kV bus
	06/01/11	R2	526	Cap Bank	50993	Bushland Interchange	230	50 Mvar	\$800,000	Install 50 Mvar Cap at Bushland Interchange 230 kV
	06/01/11	R2	536	Cap Bank	57000	Altamont	138	30 Mvar	\$1,000,000	Install 30 Mvar cap at Altamont 138 kV (bus # 57000)
	06/01/11	R2	536	Cap Bank	57267	Springhill	115	30 Mvar	\$1,000,000	Install 30 Mvar cap at Springhill 115 kV (bus # 57267)
	06/01/11	R2	531	Cap Bank	56624	St. John	115	20 Mvar	\$864,000	Install 20MVAR capacitors at St. John
	06/01/11	R2	536	Cap Bank	57308	Vaughn	115	30 Mvar	\$1,000,000	Install 30 Mvar cap at Vaughn 115 kV (bus # 57308)
Year 2012										
	06/01/12	R2	536	Cap Bank	57366	Florence	115	30 Mvar	\$1,000,000	Install 30 Mvar cap at Florence 115 kV (bus # 57366)
Year 2013										
	06/01/13	R2	520	Cap Bank	53280	Mena	69	6 Mvar	\$550,000	Install additional 6 MVAR cap at Mena
	06/01/13	R2	523	Cap Bank	54622	TAHLEQUAH CITY #2 69	69	7.2 Mvar	\$67,195	Install an additional 7.2 Mvar capacitor at TAHLEQUAH CITY #2 69 (bus 54622)
	06/01/13	R2	523	Cap Bank	54624	TAHLEQUAH CITY #1 69	69	7.2 Mvar	\$67,195	Install an additional 7.2 Mvar capacitor at TAHLEQUAH CITY #2 69 (bus 54624)
	06/01/13	R2	525	Cap Bank	55914	Frederick 69 kV	69	6 Mvar	\$108,000	Install 2 - 3 MVAR capacitors at Frederick 69 kV bus
	06/01/13	R2	525	Cap Bank	55891	E. Kingfisher	69	6 Mvar	\$108,000	Install 2 - 3 MVAR capacitors at East Kingfisher 69 kV bus
	06/01/13	R2	526	Cap Bank	51250	Bailey County Earth	115	14.4 Mvar	\$311,040	Install 14.4 MVAR cap at Bailey Co Earth
	06/01/13	R2	526	Cap Bank	51360	Cox Interchange	115	14.4 Mvar	\$400,000	Install 14.4 MVAR Cap at Cox interchange
	06/01/13	R2	526	Cap Bank	51396	LC-SOL3	115	14.4 Mvar	\$311,040	Install 14.4 MVAR cap at LC SOL
	06/01/13	R2	536	Cap Bank	57326	East Manhattan	115	30 Mvar	\$1,000,000	Install 30 Mvar cap at East Manhattan 115 kV (bus #57326)
	06/01/13	R2	536	Cap Bank	57238	Edwardsville	115	30 Mvar	\$1,000,000	Install 30 Mvar cap at Edwardsville 115 kV (bus # 57238)
	06/01/13	R2	544	Cap Bank	59590	SUB 377 - QUAPAW (EAGLE PICHER)	69	12 Mvar	\$1,500,000	Install 12 MVAR Cap Bank at Quawpaw Sub #377 Bus # 59590
Year 2014										
	06/01/14	R2	502	Cap Bank	50022	Cane Bayou	230	28.8 Mvar	\$622,080	Install 28.8 Mvar cap at Cane Bayou 230 kV bus # 50022
	06/01/14	R2	502	Cap Bank	50109	Mandeville	230	28.8 Mvar	\$622,080	Install 2 - 28.8 (57.6) Mvar cap bank at Mandeville 230 kV bus # 50109
	06/01/14	R2	524	Cap Bank	55272	Panama Capacitor	69	6 Mvar	\$108,000	Increase Panama Capacitor 3 to 12 MVAR
	06/01/14	R2	536	Cap Bank	57278	Waverly	115	30 Mvar	\$1,000,000	Install 30 Mvar cap at Waverly (bus # 57278)
	06/01/14	R2	544	Cap Bank	59497	SUB 438 - RIVERSIDE	69	66 Mvar	\$2,600,000	Install 3 - stages of 22 MVAR each for a total of 66 MVAR capacitor bank at Riverside Sub #438 59497
Year 2015										
	06/01/15	R2	502	Cap Bank	50106	Madisonville	230	28.8 Mvar	\$622,080	Install 28.8 Mvar cap at Madisonville 230 kV bus # 50106
12/31/15	06/01/16	R2	524	Trap	54948	Cedar Lane 138 kV	138		\$100,000	Replace 800A trap at Cedar Lane
	06/01/15	R2	524	Cap Bank	55330	Altus 69 kV	69	3 Mvar	\$54,000	Install 3 MVAR capacitor at Altus 69 kV bus
	06/01/15	R2	524	Cap Bank	55183	South Oklahoma City Pump 69 kV	69	6 Mvar	\$373,988	Install 2 - 3 MVAR capacitors at South Oklahoma City Pump 69 kV bus
		NC3	524	Relays		Various		3 Mvar	\$200,000	Install breaker failure relaying on all transmission breakers and motorize the tie switches on each tie breaker in order to prevent the loss of the entire bus for a tie breaker failure.
	06/01/15	R2	536	Cap Bank	56982	Oxford	138	30 Mvar	\$1,000,000	Install 30 Mvar cap at Oxford (bus # 56982)
	06/01/15	R2	536	Cap Bank	57458	Rock Creek	69	10 Mvar	\$427,000	Install 10 Mvar cap at Rock Creek 69 kV (bus # 57458)
	06/01/15	R2	544	Cap Bank	59528	Bolivar	69	14 Mvar	\$1,500,000	Install 14 MVAR cap a Bolivar bus 59528
06/01/15		PL	546	Cap Bank	59911	Golden	69	30 Mvar	\$550,000	30 Mvar Capacitor Bank at Golden
Year 2016										
	06/01/16	R2	526	Cap Bank	51242	Bailey County Interchange	115	14.4 Mvar	\$311,040	Install 14.4 MVAR cap at Bailey Co
	06/01/16	R2	526	Cap Bank	50613	Booker	69	7.2 Mvar	\$200,000	Install 7.2 MVAR Cap at Booker
	06/01/14	R2	539	Cap Bank	58786	Plainville	115	20 Mvar	\$1,500,000	20 Mvar cap bank at Plainville
	06/01/16	R2	540	Cap Bank	59254	East 161 kV	161	20 Mvar	\$432,000	Install 20 MVAR capacitor at East 161 kV bus