



**Southwest Power Pool, Inc.**  
**2009, 2<sup>ND</sup> QUARTER**  
**PROJECT TRACKING REPORT**

---



**Southwest Power Pool, Inc.**

**2009 2<sup>ND</sup> QUARTER PROJECT TRACKING REPORT**

**April 14, 2009**

**PROJECT TRACKING, Current SPP Process:**

SPP actively monitors and supports the progress of transmission expansion projects, emphasizing the importance of maintaining accountability for areas such as grid regional reliability standards, firm transmission commitments and tariff cost recovery

Each quarter, SPP staff solicits feedback from the project owners to determine the progress of each approved transmission project. This quarterly report charts the progress of all STEP projects approved either directly by the BOD or through a FERC filed service agreement under the SPP Open Access Transmission Tariff.

**Results:**

**2009 – 2012 Project Summary:**

All projects that either have an indicated completion date or RTO need date that falls within the 4 year horizon – 440 projects with an approximate E&C value of over \$2.7 billion.

<b>2nd Quarter 2009 Project Tracking Summary</b>		
<b>Upgrade Type</b>	<b>Number of Upgrades</b>	<b>Cost Estimate</b>
<b>Reliability – With NTC’s</b>	<b>261</b>	<b>\$1,175,000,000</b>
<b>Reliability – Non OATT</b>	<b>12</b>	<b>\$75,100,000</b>
<b>Zonal</b>	<b>9</b>	<b>\$13,500,000</b>
<b>Transmission Service</b>	<b>55</b>	<b>\$426,800,000</b>
<b>Generation Interconnection</b>	<b>12</b>	<b>\$92,700,000</b>
<b>Sponsored Upgrades</b>	<b>7</b>	<b>\$218,000,000</b>
<b>Economic Upgrade</b>	<b>7</b>	<b>\$479,600,000</b>
<b>Planned Upgrades</b>	<b>77</b>	<b>\$224,500,000</b>
<b>TOTALS</b>	<b>440</b>	<b>\$2,705,200,000</b>

**Figure 1: 2009 – 2012 Project Summary**



**2009 – 2012 Reliability Project Summary:**

All tariff signatory projects identified in an SPP study to meet regional reliability criteria that either have an indicated completion date or RTO need date that falls within the 4 year horizon – 261 upgrades with an approximate E&C of \$1.175 billion.

4 upgrades valued at \$13 million are complete. 152 upgrades valued at \$731.7 million are on schedule for the 4 year horizon. Transmission owners have provided mitigation plans for 105 upgrades valued at \$430.3 million. No upgrade has been delayed beyond the RTO determined need date without having an interim mitigation plan.

**2009 – 2012 TSR/GI Project Summary:**

Completion and commissioning of projects identified as needed through Transmission Service and Generation Interconnection Agreements that either have an indicated completion date or RTO need date that falls within the 4 year horizon – 67 upgrades with an E&C of \$519.5 million.

No upgrades are complete in this category. 65 upgrades valued at \$514 million are on schedule for the 4 year horizon. Transmission owners have provided mitigation plan for 2 projects valued \$5.5 million. No upgrade has been delayed beyond the RTO determined need date without having an interim mitigation plan.

<b>2nd Quarter 2009 Project Tracking Status</b>					
	Top number is number of upgrades in category Bottom number is estimated cost of upgrades in category				
<b>Upgrade Type</b>	<b>Total</b>	<b>Complete</b>	<b>On Schedule</b>	<b>Behind Schedule - With Mitigation</b>	<b>Behind Schedule - Without Mitigation</b>
<b>Reliability</b>	261 \$1,175,000,000	4 \$13,000,000	152 \$731,700,000	105 \$430,300,000	0 \$0
<b>Transmission Service</b>	55 \$426,800,000	0 \$0	53 \$421,300,000	2 \$5,500,000	0 \$0
<b>Generation Interconnection</b>	12 \$92,700,000	0 \$0	12 \$92,700,000	0 \$0	0 \$0

Figure 2: 2009 – 2012 Project Status

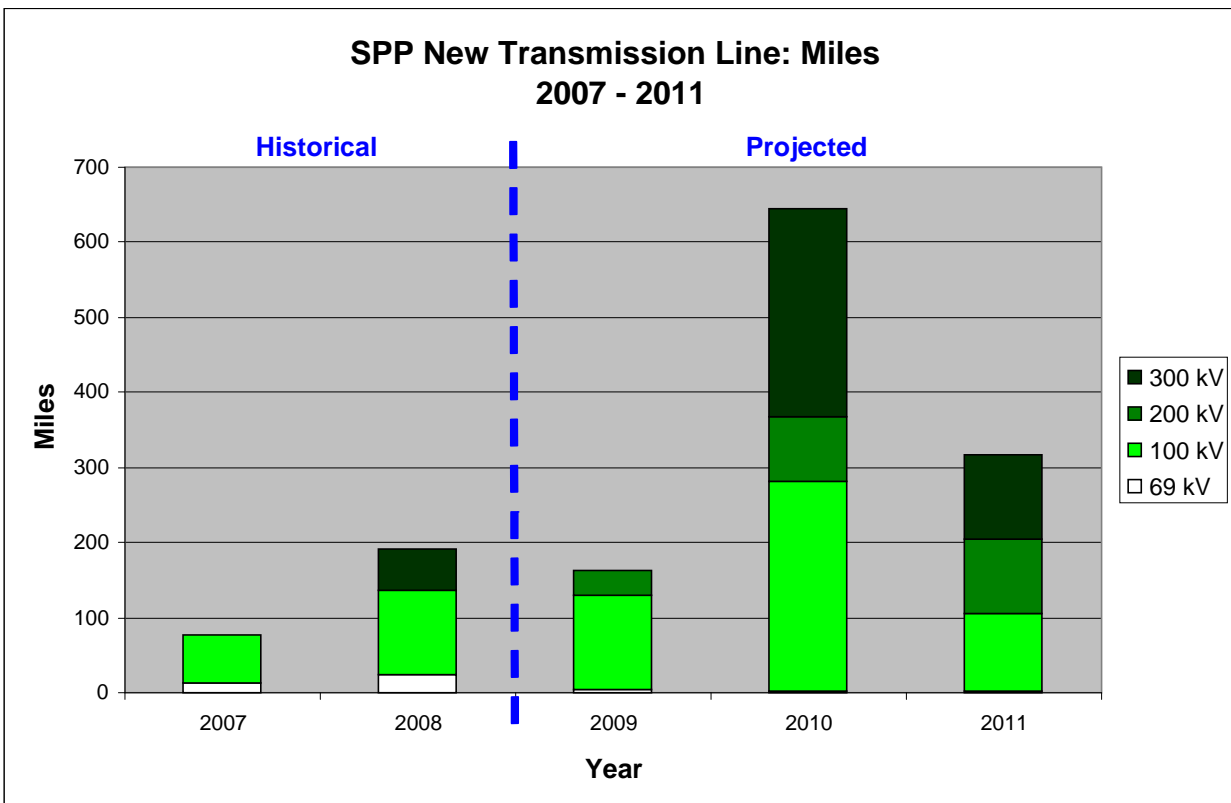
**New Transmission Miles Summary:**

This section contains information concerning projected new transmission based on the most current information gathered during the 2<sup>nd</sup> Quarter 2009 Project Tracking initiative.

It is projected that in 2009, approximately 163 miles of new transmission will be complete at an estimated cost of \$114.2 million, consisting of 5 miles of 69kV, 124 miles of 100-200 kV and 34 miles of 230 kV.

In 2010, 646 miles of new transmission are currently scheduled to be complete at an estimated cost of \$568.6 million, consisting of 3 miles of 69kV, 279 miles of 100-200 kV, 85 miles of 230 kV and 279 miles of 345 kV.

In 2011, 316 miles of new transmission are currently scheduled to be complete at an estimated cost of \$255.6 million, consisting of 3 miles of 69kV, 102 miles of 100-200 kV, 100 miles of 230 kV and 111 miles of 345 kV.



**Figure 3: 2007 – 2011 New Transmission: Miles**

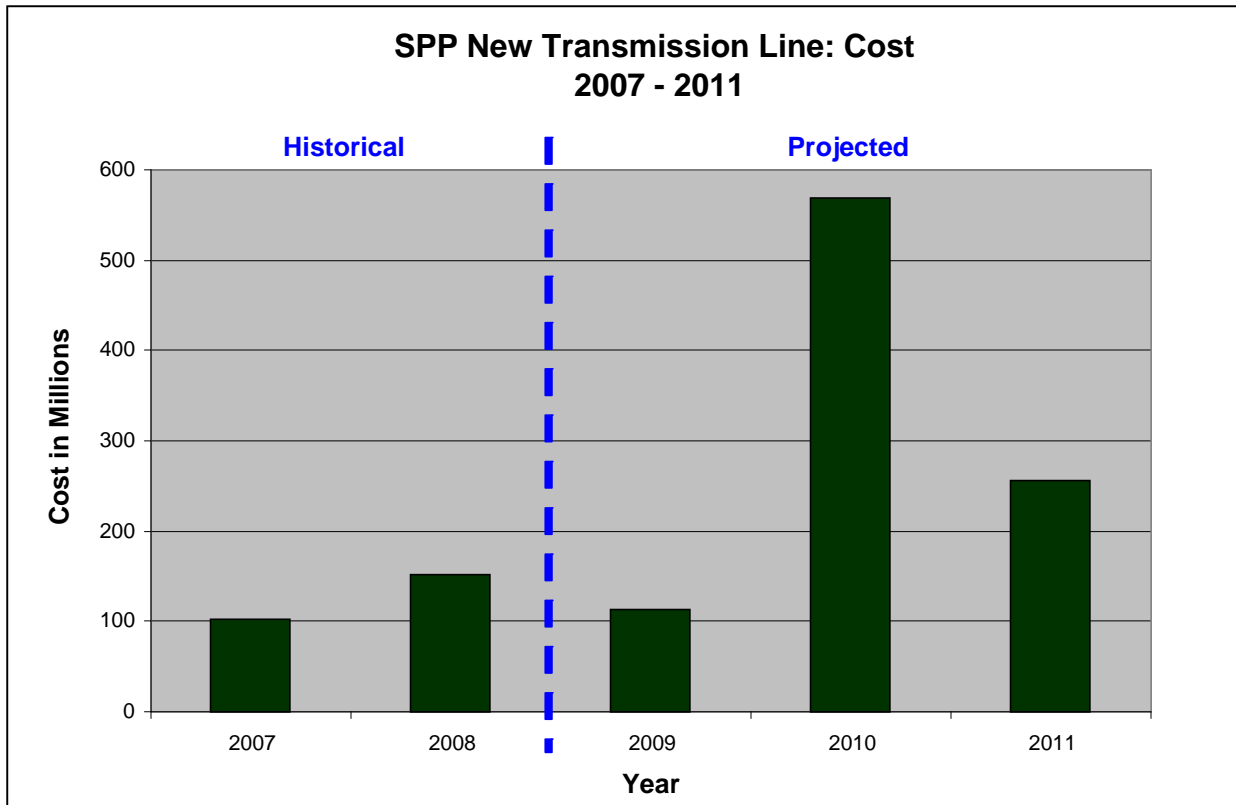


Figure 4: 2007 – 2011 New Transmission Line: Cost

**Conclusions:**

The 2<sup>nd</sup> Quarter Project Tracking saw completion of four upgrades worth an estimated \$13 million.

There are six Westar Inc. reliability upgrades which did not have SPP Staff approved mitigation plans, Westar Inc. indicates that these upgrades (marked with cross-hatched yellow status) require re-evaluation due to anticipated load forecast changes. While this is not a typical mitigation plan, SPP staff did not classify these six projects as “RED” even though they have active NTC’s.

There were no significant changes on projects to be in-service beyond 2012.

**Appendix:**

Project upgrades that require re-evaluation due to anticipated load forecast changes. (Yellow-hatched status):

Area	Project Name	Project Owner Indicated In-Service Date	RTO Determined Need Date	Project Status Comments	Project Status
Westar	Line - Richland - Rose Hill Junction 69 kV	06/01/13	06/01/10	Currently re-evaluating this project in light of Timber Jct. 138-69 kV project and TransCanada	
Westar	Line - Lawrence Hill - Mockingbird 115 kV		06/01/10	Re-evaluating scope of project as part of a comprehensive assessment of the Lawrence load area.	
Westar	Line - E. Manhattan - JEC 230 kV		06/01/10	Currently evaluating the scope of work.	
Westar	Line - Timber Junction - Winfield 69 kV	12/31/10	06/01/10	Line is being re-evaluated as part of the TransCanada-Rock project. Interim mitigation is increasing generation at City of Winfield	
Westar	Line - 27th & Croco - Tecumseh Hill 115 kV	12/31/10	06/01/09	Project will probably defer to 2010 due to reduced load forecast. Expected in-service date is 12/1/2010.	
Westar	Line - 27th & Croco - 41st & California 115 kV	12/31/11	06/01/09	Project will probably defer to 2011 due to reduced load forecast. Expected in-service date is 12/1/2011. Substation terminal upgrades is \$475,000.	

### SPP 2nd Quarter 2009 Project Tracking List - Branch\_Xfr

<b>Blue</b>	Complete.
<b>Green</b>	On Schedule 4 Year Horizon.
<b>Yellow</b>	On Schedule beyond 4 Year Horizon.
<b>Yellow</b>	Behind schedule, interim mitigation provided or project may change but time permits the implementation of project.
<b>Yellow</b>	Behind schedule, requires re-evaluation due to anticipated load forecast changes.
<b>Red</b>	Delayed beyond the RTO Determined need date and no mitigation plan provided <b>OR RTO Det. Need Date in 4 year Horizon and no estimated In-Service date provided.</b>
<b>\$ / months</b>	Project lead time and cost estimated by SPP staff
<b>EU</b>	Economic Upgrade
<b>GI</b>	Generation Interconnect
<b>PL</b>	Transmission Owner Planned Project
<b>PT</b>	Project Tracking
<b>R</b>	Reliability project that SPP Recommends to the BOD for Authorization to Construct
<b>RN</b>	Reliability project not under SPP tariff
<b>SU</b>	Sponsored Upgrade
<b>TS</b>	Transmission Service with signed contract
<b>ZU</b>	Zonal Upgrade

NTC_ID	PID	UID	Area	Project Name	Project Type	Project Owner Indicated In-Service Date	RTO Determined Need Date	Letter of Notification to Construct Issue Date	Cost Estimate	Final Cost	Project Lead Time	Project Status	Project Status Comments
<b>Year 2008</b>													
20007	164	10213	534	Line - WEPL Cimarron Plant - North Cimarron 115 kV	R	10/01/09	06/01/08	02/13/08	\$1,350,000				Construction is in progress. Mitigation is to request SPS to adjust the Texas Co Phase Shifter, and adjust generation on the Holcomb and Fort Dodge Plants.
19965	253	10334	536	Line- 166th - Jaggard Junction 115 kV Rebuild	TS	08/31/09	06/01/09	05/29/07	\$2,373,030		18 months		5639248; Interim mitigation is implementation of Transmission Operating Directive 800
19965	253	10335	536	Line - Jaggard Junction - Pentagon 115 kV Rebuild	TS	12/15/09	06/01/09	05/29/07	\$3,168,637		18 months		Interim mitigation is implementation of Transmission Operating Directive 800
	605	10775	640	Multi - North Platt 230/115 kV Transformers	R	06/01/10	06/01/09		\$2,900,000				Mitigation Plan involves local area re-dispatch to relieve post contingent overloads. GGS generation is reduced while generation at N.Platte, Jeffrey, Johnson and Canaday is increased.
	606	10777	640	Multi - ETR Project	R	01/01/10	06/01/10		\$148,000,000				
<b>Year 2009</b>													
	101	10125	515	XFR - Eufula 161/138 kV	RN	06/01/09	04/01/09		\$7,500,000				
20012	112	10139	520	Line - Sayre - Erick	R	04/01/09	06/01/09	07/28/08	\$10,400,000		24 months		Sayre to Erick line construction is completed, Terminal work at Sayre and Erick is scheduled to be completed by 2/1/2009.
20016	30151	50159	520	LINWOOD - MCWILLIE STREET 138KV CKT 1 #2	TS	06/01/09	06/01/09	01/16/09	\$125,000		15 months		
20000	217	10276	520	Line - Tap N. Huntington - Waldron 69 kV	R	06/01/09	06/01/08	02/13/08	\$776,000		15 months		
20000	218	10277	520	Line - Huntington - N Huntington 69 kV	R	06/01/09	06/01/09	02/13/08	\$20,000		9 months		
20000	219	10278	520	Line - Excelsior - Excelsior Tap 161 kV	R	06/01/09	06/01/09	02/13/08	\$4,000,000		24 months		Reeves Road station will be built under the existing North Huntington - Bonanza 161kV line. This project will replace the Excelsior Tap project.
19954	220	10279	520	Line - Riverside Station - Explorer Glenpool 138 kV Ckt 1	TS	06/01/09	06/01/09	07/21/06	\$1,000,000		24 months		3.3% BPF. Remainder of RR paid by PTP base rate
20000	221	10280	520	Line - Hope - Fulton 115 kV	R	06/01/09	06/01/09	02/13/08	\$100,000		15 months		
20027	222	10281	520	Line - Bonanza - Bonanza Tap 161 kV	R	06/01/09	06/01/10	01/27/09	\$594,000		15 months		
19956	224	10283	520	XFR - Southwest Shreveport Transformer Ckt 1 345/161 kV	TS	04/01/09	06/01/10	06/27/07	\$6,873,000		30 months		
19956	224	10284	520	XFR - Southwest Shreveport Transformer Ckt 2 345/161 kV	TS	04/01/09	06/01/10	06/27/07	\$6,873,000		30 months		
20000	225	10286	520	Line - North Magazine - Magazine REC - Darville 161 kV	R	06/01/09	06/01/09	02/13/08	\$13,705,000		24 months		Replaced 4/1/2009 STEP date with 'M' because existing operating procedure can be used in spring 2009.
20000	225	10289	520	Line - North Magazine - Magazine REC - Darville 161 kV	R	06/01/09	06/01/09	02/13/08	\$6,090,000		24 months		
20000	113	10745	520	Multi - Wallace Lake - Port Robson - RedPoint 138 kV	R	06/01/09	06/01/12	02/13/08	\$2,580,000		24 months		
20000	113	10746	520	Multi - Wallace Lake - Port Robson - RedPoint 138 kV	R	06/01/09	06/01/12	02/13/08	\$4,460,000		24 months		
20000	229	10292	520	Multi - Flint Creek - E Centerton 161 kV	R	06/01/09	06/01/11	02/13/08	\$14,200,000		24 months		
20000	229	10293	520	Multi - Flint Creek - E Centerton 161 kV	R	06/01/09	06/01/13	02/13/08	\$14,200,000		24 months		
20000	229	10294	520	Multi - Flint Creek - E Centerton 161 kV	R	06/01/10	06/01/13	02/13/08	\$14,200,000		24 months		
20000	230	10295	520	Line - Broken Bow - Craig Junction 138 kV	R	06/01/09	06/01/08	02/13/08	\$6,602,000		18 months		Mitigation Plan: For the loss of either the WFEC Broken Bow Dam Tap-Mt. River or Mt. River-Craig Junction 138 kV line sections, which outage the three-terminal line at WFEC's Broken Bow Dam Tap.
20005	177	10728	520	Line - Atoka 138 kV Three Breaker Ring Bus & Relay Work at Tupelo	R	06/01/09	06/01/12	02/20/08	\$2,887,800		12 months		Add to pick up AEP breaker work
20005	177	10729	520	Line - Atoka 138 kV Three Breaker Ring Bus & Relay Work at Tupelo	R	06/01/09	06/01/12	02/20/08	\$442,800		12 months		Added to pick up AEP relay work
	695	10911	520	Line- Canadian Pump Station line tap	PL	06/01/09			\$1,616,000		10 months		
	695	10912	520	Line- Canadian Pump Station line tap	PL	06/01/09			\$1,616,000		10 months		
			520	Line - Bransdall Pump Station Tap	PL	12/31/09			\$4,450,000		15 months		New Planned Project by AEP Too late to put in 2008 STEP
			520	Line - Bransdall Pump Station Tap	PL	12/31/09			\$4,450,000		15 months		New Planned Project by AEP Too late to put in 2008 STEP

20028	233	10298	523	XFR - Claremore 161/69 kV autos 1 and 2	R	06/01/09	06/01/09	01/27/09	\$7,200,000		24 months	It has been identified that the CBs in this station need to be converted from oil to gas to meet environmental requirements. 11 CBs will need to be replaced.		
19996	52	10070	524	Line - Stillwater - McElroy 138 kV	R	02/27/09	05/31/08	02/01/07	\$1,758,527	\$2,067,530	18 months	COMPLETE		
20029	583	10749	524	Multi VBI-Adabell 161 kV	R	03/31/12	06/01/12	01/27/09	\$200,000		12 months	Project delayed - NTC date will be honored		
19960	234	10299	524	Line - Explorer Glenpool - Beeline 138 kV Ckt 1	TS	06/01/09	06/01/09	07/21/06	\$200,000			3.3% BPF. Remainder of RR paid by PTP base rate		
20002	236	10301	524	Line - Alva - Knobhill 69 kV	R	06/01/09	06/01/09	02/13/08	\$35,000		6 months			
19960	237	10302	524	Line - Explorer Glenpool - Riverside Station 138 kV Ckt 1	TS	06/01/09	06/01/09	07/21/06	\$400,000			3.3% BPF. Remainder of RR paid by PTP base rate		
20029	584	10751	524	Line-Cleo Corner-Cleo Jct 69 kV	R	12/01/09	12/01/09	01/27/09	\$250,000		6 months			
	126	10159	524	Line - Maud - Seminole 138kV	PL	05/01/09			\$326,346			An SPP Flowgate. Project will be complete 5/1/2009.		
	67	10085	524	Line - Igo - Razorback 69 kV	PL	06/30/09			\$5,939,246			Completion date delayed to 6/30/2009 due to material issues.		
	123	10153	524	Multi - Earlywine	PL	06/01/09			\$12,900,000			TO Zonal/local upgrade. Not for SPP reliability.		
	123	10154	524	Multi - Earlywine	PL	06/01/09							TO Zonal/local upgrade. Not for SPP reliability.	
	123	10155	524	Multi - Earlywine	PL	06/01/09							TO Zonal/local upgrade. Not for SPP reliability.	
	123	10156	524	Multi - Earlywine	PL	06/01/09							TO Zonal/local upgrade. Not for SPP reliability.	
	582	10747	524	Multi - Arcadia Tap	PL	06/01/11			\$1,200,000			Project delayed due to lower load growth		
	582	10748	524	Multi - Arcadia Tap	PL	06/01/11							Project delayed due to lower load growth	
	56	10074	524	Line - Chilwood - Garber 138 kV	PL	12/31/09			\$5,920,226					
	304	10731	524	Multi - Johnson County Project	PL	06/01/11							Multi-upgrade project for new arc furnace near Arbuckle (on upgrade in device tab - Cap bank at Madill)	
	304	10732	524	Multi - Johnson County Project	PL	06/01/11								
	304	10733	524	Multi - Johnson County Project	PL	06/01/11								
	304	10734	524	Multi - Johnson County Project	PL	06/01/11				\$32,975,000				
	304	10735	524	Multi - Johnson County Project	PL	06/01/11								
	304	10736	524	Multi - Johnson County Project	PL	12/01/10								
	304	10737	524	Multi - Johnson County Project	PL	06/01/09								
20030	585	10752	525	Line-Buffalo-FT Supply CKT 1	R	04/01/09	04/01/09	01/27/09	\$150,000		8 months			
20003	142	10181	525	Line - Little Axe - Noble 69 kV	R	06/01/09	04/01/09	02/13/08	\$2,640,000		16 months			
20003	132	10166	525	Line - Anadarko - Cyril 69 kV	R	06/01/09	04/01/09	02/13/08	\$3,120,000		16 months			
19985	140	10179	525	Line - ACME - W Norman 69 kV	R	06/01/10	06/01/08	02/02/07	\$912,000		8 months	Mitigation Plan under review by SPP. Deferred in latest SPP Transmission Expansion Plan.		
20003	138	10176	525	Line - OGE Woodward - WFEC Woodward 69 kV	R	06/01/09	04/01/09	02/13/08	\$1,050,000		10 months	Mitigation: Temporary Op Guide provided.		
20003	238	10303	525	Line - Atoka - WFEC Tupelo - Lane 138 kV	R	06/01/09	06/01/12	02/13/08	\$8,265,000		12 months	AEP's station cost is \$1.685M. WFEC's construction cost is \$6.6M. An interconnection agreement has been executed between WFEC and AEP.		
20003	238	10304	525	Line - Atoka - WFEC Tupelo - Lane 138 kV	R	06/01/09	06/01/12	02/13/08				12 months		
20030	586	10753	525	Line-Burlington-Cherokee SW 69 kV CT	R	04/01/09	04/01/09	01/27/09	\$150,000		8 months			
20003	240	10306	525	Line - Cyril to Medicine Park Jct 69 kV	R	06/01/09	06/01/09	02/13/08	\$750,000		16 months			
20003	241	10307	525	Line - Anadarko - Georgia Tap 138 kV	R	06/01/10	06/01/09	02/13/08	\$1,124,000		12 months	Mitigation: Temporary Op Guide provided.		
20003	242	10308	525	Line - Elmore - Paoli 69 kV	R	06/01/10	06/01/09	02/13/08	\$3,240,000		12 months	Mitigation: Temporary Op Guide provided.		
20003	243	10309	525	Multi - OU SW - Goldsby - Canadian SW 138 kV	R	06/01/10	06/01/09	02/13/08	\$2,753,800		16 months	Mitigation: Temporary Op Guide provided.		
20003	243	10310	525	Multi - OU SW - Goldsby - Canadian SW 138 kV	R	06/01/10	06/01/09	02/13/08	\$2,250,000		16 months	Mitigation: Temporary Op Guide provided.		
20003	243	10311	525	Multi - OU SW - Goldsby - Canadian SW 138 kV	R	06/01/10	06/01/09	02/13/08	\$5,000,000		16 months	Mitigation: Temporary Op Guide provided.		
20003	403	10525	525	XFR - Comanche 138/69 kV Transformer	R	06/01/09	06/01/12	02/13/08	\$210,000		24 months			
20030	587	10754	525	Line - IODINE - MOORELAND 138KV CKT 1	R	04/01/09	04/01/09	01/27/09	\$150,000		8 months			
20030	588	10755	525	Line - MOORELAND - MOREWOOD SW 138KV CKT 1	R	04/01/09	04/01/09	01/27/09	\$150,000		6 months	Update 10/9/08: Moorland to Moorewood CT good for 600A, 143MVA		
20003	356	10466	525	Line - Medicine Park Jct - Fletcher 69 kV	R	06/01/09	06/01/11	02/13/08	\$1,230,000		16 months			
20003	361	10471	525	Line - Fletcher - Marlow Jct 69 kV	R	06/01/11	06/01/11	02/13/08	\$2,000,000		16 months			
20030	589	10756	525	Line-Grandfield-Hollister 69 kV	R	06/01/09	06/01/09	01/27/09	\$150,000		8 months			
20004	159	10206	526	Line - Plant X Station - Tok Station West 230 kV	R	12/31/09	04/01/09	02/13/08	\$56,000		6 months	Only mitigation would depend on manual switching so this project needs to be done instead.		

20004	246	10314	526	Multi - Nichols - Whitaker Sub 115kV; Nichols - Cherry 115 kV	R	12/31/09	06/01/09	02/13/08	\$5,000	6 months	SPP STEP study results indicate this terminal upgrade is needed before the 2017 summer peak without any overload occurrences in any of the models before then.
20004	246	10315	526	Multi - Nichols - Whitaker Sub 115kV; Nichols - Cherry 115 kV	R	12/31/09	06/01/09	02/13/08		6 months	SPP STEP study results indicate this terminal upgrade is needed before the 2017 summer peak without any overload occurrences in any of the models before then.
19987	162	10210	526	XFR - Lubbock East 115/69 kV	R	05/22/09	06/01/07	02/02/07	\$1,300,000	18 months	Mitigation Plan verified by SPP staff. Transformer delivery from manufacturer has been later than expected.
19987	162	10211	526	XFR - Lubbock East 115/69 kV	R	06/19/09	06/01/07	02/02/07	\$1,300,000	18 months	
20031	590	10757	526	Line - Ocotillo sub conversion 115 kV	R	06/01/11	06/01/09	01/27/09	\$1,222,843	24 months	Project has been scoped and included in capital budget. Interim Mitigations: To address the overload of the Carlsbad 115/69 kV transformer for the outage of the parallel transformer, start the Carlsbad GT. Shed load to mitigate overload while Carlsbad generation brought on line, if necessary.
20004	249	10320	526	Multi - Seven Rivers - Pecos - Potash 230 kV	R	06/01/09	06/01/09	02/13/08	\$15,891,640	30 months	SPS expects to have these projects complete by 6/1/2009.
20004	249	10321	526	Multi - Seven Rivers - Pecos - Potash 230 kV	R	06/01/09	06/01/09	02/13/08		30 months	
20004	249	10322	526	Multi - Seven Rivers - Pecos - Potash 230 kV	R	06/01/09	06/01/09	02/13/08		30 months	
19987	250	10323	526	XFR - Cochran 115/69 kV	R	04/01/09	06/01/08	02/02/07	\$2,750,000	18 months	Mitigation Plan verified by SPP staff.
19987	250	10324	526	XFR - Cochran 115/69 kV	R	04/01/09	06/01/08	02/02/07		18 months	
20004	146	10185	526	Multi - Seminole - Hobbs Project 230 kV	R	04/01/11	06/01/08	02/13/08	\$8,762,733	36 months	Project is not behind schedule: Loads have been swapped as part of the interim mitigation. This delays the need for the project until 6/1/2012.
20004	146	10187	526	Multi - Seminole - Hobbs Project 230 kV	R	04/01/11	06/01/08	02/13/08	\$7,715,262	24 months	Project is not behind schedule: Loads have been swapped as part of the interim mitigation. This delays the need for the project until 6/1/2012.
20004	146	10188	526	Multi - Seminole - Hobbs Project 230 kV	R	04/01/11	06/01/08	02/13/08		24 months	Project is not behind schedule: Loads have been swapped as part of the interim mitigation. This delays the need for the project until 6/1/2012.
20004	146	10189	526	Multi - Seminole - Hobbs Project 230 kV	R	04/01/11	06/01/08	02/13/08	\$3,891,288	24 months	Project is not behind schedule: Loads have been swapped as part of the interim mitigation. This delays the need for the project until 6/1/2012.
20004	146	10190	526	Multi - Seminole - Hobbs Project 230 kV	R	04/01/11	06/01/08	02/13/08		24 months	Project is not behind schedule: Loads have been swapped as part of the interim mitigation. This delays the need for the project until 6/1/2012.
20004	146	10186	526	Multi - Seminole - Hobbs Project 230 kV	R	04/01/11	06/01/08	02/13/08	\$8,920,699	48 months	Project is not behind schedule: Loads have been swapped as part of the interim mitigation. This delays the need for the project until 6/1/2012.
20031	252	10332	526	XFR - Yoakum County Interchange 230/115 kV	R	08/21/09	06/01/09	01/27/09	\$802,084	24 months	The project was modified to only add a 2nd 230/115 kV transformer to avoid future overloads. Completion is by 12/01/2009. Interim SPS mitigation was verified by SPP staff.
20004	155	10199	526	XFR - Nichols 230/115 kV	R	05/01/09	06/01/11	02/13/08	\$6,000,000	24 months	SPS plans to complete this project by 3/1/2009.
19987	157	10202	526	XFR - Hale Co 115/69 kV	R	04/10/09	06/01/07	02/02/07	\$2,900,000	18 months	Mitigation Plan verified by SPP staff. Per project tracking info in this project list, these projects should be complete by 3/13/09.
19987	157	10203	526	XFR - Hale Co 115/69 kV	R	05/01/09	06/01/07	02/02/07		18 months	
	591	10758	526	Line Roz3 - Amerada Hess Co2 115 kV	PL	08/03/09					
	592	10759	526	Line - Roz3 - Seminole 115 kV	PL	08/03/09					
	593	10760	526	Line - Denver City - seminole 115 kV	PL	08/03/09					
	594	10761	526	Line - Seminole - Doss Interchange 115 kV	PL	08/03/09					
	595	10762	527	Line - Ompvet - Ompark - 4 138 kV	PL	05/15/09			\$1,946,000		on schedule
	596	10763	527	Line - Ompvet - OmAltus - 4 138 kV	PL	04/15/09			\$1,094,000		on schedule
	597	10764	527	Line - Altus Junction Ompark - 4 138 kV	PL	04/30/09			\$1,174,552		on schedule
	598	10765	527	Line-Tamarack Tap-OmAltus-4 138 kV	PL	06/01/09			\$586,250		on schedule
20007	166	10215	534	Line - Holcomb - Plymell 115 kV	R	12/31/09	06/01/08	02/13/08	\$3,650,000	18 months	Currently in engineering design and cost review. Mitigation is to reduce generation in area 534 and increase in area 539 as needed to relieve overload.
20014	367	10480	534	Line - Plymell - Pioneer Tap 115 kV	R	12/31/09	06/01/09	09/18/08	\$3,200,000	24 months	Currently in engineering design and cost review. Mitigation is to reduce generation in area 534 and increase in area 539 as needed to relieve overload.
	165	10214	534	Line - Phillipsburg - Rhoades 115 kV Ckt 1	PL	12/31/09			\$10,500,000		Construction is in progress.
20006	265	10348	536	XFR - Stranger Creek 345/115 #2 Addition	R	07/01/09	06/01/09	02/13/08	\$8,300,000	24 months	Transformer will be in service prior to summer peak load conditions.
20033	266	10349	536	Line - Circle - HEC GT 115 kV Rebuild	R	06/01/11	06/01/11	01/27/09	\$710,000	18 months	Interim mitigation is redipatch of HEC GT units.
19986	180	10229	536	Line - Stranger Creek - Thornton Street 115 kV Addition	R	12/01/09	06/01/07	02/02/07	\$9,675,000	12 months	Interim mitigation is implementation of Transmission Operating Directive 1216; Project delay is due to routing difficulties at Stranger Creek substation taking into account the addition of the 2nd 345-115 kV
20006	179	10228	536	Line - Summit - NE Saline 115 kV	R	12/01/09	06/01/09	02/13/08	\$6,819,380	18 months	Project is modified: Rebuild Summit-Northview 115 kV ; In-service date 6/1/2009;\$ 6,819,380 Build Summit-Southgate 115 kV; Remove Northview-Southgate 115 kV; Work will be performed when extensive crews are completing Reno County-Summit 345 kV work; Cost for substation work is \$1.3 million
20006	323	10419	536	Line - West McPherson - Wheatland 115 kV	R	03/01/09	06/01/10	02/13/08	\$3,949,405	12 months	Terminal upgrades at Wheatland complete
20006	260	10343	536	Line - Reno - Circle 115 kV Ckt 1	R	03/01/09	06/01/09	02/13/08	\$4,056,582	18 months	Rebuild will be done as part of Wichita - Reno County 345 kV; Reviewing the connections of the Reno County - Circle 115 kV lines

20006	170	10219	536	Line - Fort Junction - Anzio 115 kV	R	06/01/10	06/01/08	02/13/08	\$3,639,327		6 months	Increase generation at McPherson and Hutchinson to relieve overloading Transmission Operating Directive 1217
	262	10345	536	Line - Reno County-Summit 345 kV ckt 1	EU	06/01/10			\$100,618,016		24 months	Project costs include rebuilding of 115 kV and 230 kV underlying system on same ROW
	262	10346	536	XFR - Reno County 345/115 kV #2	EU	07/31/09					24 months	
20034	650	10854	540	Multi - South Harper 161 kV cut-in to Stilwell-Archie Junction 161 kV line	R	10/01/10	06/01/09	01/27/09	\$2,259,673		18 months	mitigation plan is to reduce South Harper generation to eliminate contingent overloads
20034	601	10768	540	Multi - Grandview East - Sampson - Longview 161kV lines	R	06/01/10	06/01/09	01/27/09	\$50,000		6 months	Grandview East waveraps upgrades completed; mitigation plan is to increase Greenwood generation to eliminate contingent overloads
20034	602	10771	540	Line - Glenare - Liberty 69 kV	R	06/01/09	06/01/09	01/27/09	\$80,000		6 months	Only mitigation to eliminate criteria violation is to shed load. Plan to complete the project by the required in-service date. No mitigation plan is needed by then.
	195	10249	540	Line - Pope Lane to Smithville 161kV	PL	01/01/09			\$4,550,000		12-18 months	Complete; costs not finalized
	275	10359	540	Multi - 161kV Tap of Platte City to Stranger Creek	GI	12/31/09			\$7,127,000		12-18 months	Project under construction
	275	10360	540	Multi - 161kV Tap of Platte City to Stranger Creek	GI	12/31/09					12-18 months	Project under construction
19967	280	10364	541	Line - College - Craig 161 kV	TS	06/12/09	06/01/11	05/31/07	\$1,193,400		24 months	Actually originally assigned to EDE latan TSR needed 6/1/16 but displaced to 6/1/11 for 2 SPSM PTP request resokt to KCPL not BPF
	199	10254	541	Multi - Lackman Sub	PL	05/29/09			\$138,200		6 months	Project 85% complete
	199	10255	541	Multi - Lackman Sub	PL	05/29/09						Project 85% complete
	200	10256	541	Line - Terrace - Westside 161 kV	PL	03/31/10			\$4,352,600		10 months	Project behind schedule; estimate 1st quarter 2010 completion
	201	10257	541	Line - Crosstown - Midtown 161 kV	PL	12/31/09			\$4,750,000			Project behind schedule, under construction; estimate 4th quarter 2009 completion
	279	10363	541	Line - Craig - Lenexa 161 kV	PL	06/01/10			\$192,000		6 months	
20036	440	10571	544	Line - Diamond Jct - Sarcosie SW 69 kV	R		06/01/09	01/27/09	\$2,274,000		18 months	Line segment uprated (New Summer Rate A/B: 32/41 MVA) due to special case study on limiting element in question. Re-conductor postponed to 2013. Will need to be confirmed in upcoming model development, otherwise due to the move up in the need date, op directive will need to be composed to suffice until project can be realized.
19992	209	10265	544		R	12/01/09	06/01/10	02/02/07			30 months	
19992	209	10266	544	Multi - Riverdale - Ozarks 161 kV Ckt 1	R	12/01/09	06/01/10	02/02/07	\$14,057,000			Project completion delayed due to construction delays. New in-service date of 12/1/2009.
19992	209	10267	544		R	12/01/09	06/01/10	02/02/07				
19992	209	10268	544		R	12/01/09	06/01/10	02/02/07				
20010	282	10366	544	Line - Sub 389-Joplin Southwest - Sub 422-Joplin 24th & Connecticut 161	R	06/01/09	06/01/09	02/13/08	\$5,000		6 months	
	603	10772	640	Line - NPPD / WERE - Steele City - Kansas Border 115 kV	R	06/01/10	06/01/09		\$2,200,000		48 months	Coordinated with WERE on Knob Hill - State Line
	604	10773	640	Grand Island 345/230 kV Transformer	R	07/01/09	07/01/09		\$6,950,971			JH - Need date changed to come in line with previous Nebraska planning.
	607	10778	640	Bloomfield Wind Generation Interconnection, Delivery & Facilities	R	03/01/09	03/01/09		\$5,500,000			Complete - In-Service
	608	10779	645	Build New 161 KV Substations Sub 1305 & 1341 (TDCSCOMX2) (2)	R	06/01/09	12/01/09		\$15,813,900			Change Project Name to "Build New 161 KV Substation Sub 1305"
	609	10780	645	161kV projects for additional load near Ft. Calhoun	R	06/01/10	06/01/09		\$11,682,300			Change Project Name to "Build New 161 KV Substation Sub 1341"
<b>Year 2010</b>												
	283	10367	330	Multi - Blackberry - Chouteau - GRDA 1	RN	06/01/10						
	283	10368	330	Multi - Blackberry - Chouteau - GRDA 1	RN	02/01/11						
	283	10369	330	Multi - Blackberry - Chouteau - GRDA 1	RN	02/01/11			\$57,000,000			
	283	10916	330	Multi - Blackberry - Chouteau - GRDA 1	RN	02/01/11						
	283	10781	330	Multi - Blackberry - Chouteau - GRDA 1	RN	02/01/11						Chouteau 2 Sub estimated completion date is 04/01/10
	610	10782	330	Line - Camp Clark - Lamar 161 kV	RN	06/01/10						
	611	10783	330	XFR - Lamar 69/161 kV	RN	06/01/10						
20016	507	10652	520	ARSENAL HILL - FORT HUMBUG 138KV CKT 1	TS	06/01/10	06/01/10	01/16/09	\$5,428,300		18 months	Full BPF Displacement filing needed at FERC
20016	30149	50157	520	DYESS - TONTITOWN 161KV CKT 1	TS	06/01/10	06/01/10	01/16/09	\$276,000		15 months	Full BPF
20016	30147	50155	520	ARSENAL HILL (ARSHILL2) 138/69/14.5KV TRANSFORMER CKT 2	TS	06/01/10	06/01/10	01/16/09	\$3,005,700		18 months	Full BPF
20016	30146	50154	520	ARSENAL HILL (ARSHILL1) 138/69/12.47KV TRANSFORMER CKT 1	TS	06/01/10	06/01/10	01/16/09	\$3,005,700		18 months	Full BPF
20016	30145	50153	520	ARSENAL HILL - WATERWORKS 69KV CKT 1	TS	06/01/10	06/01/10	01/16/09	\$3,898,800		18 months	Full BPF
20016	30144	50152	520	ARSENAL HILL - MCWILLIE STREET 138KV CKT 1	TS	06/01/10	06/01/10	01/16/09	\$100,000		12 months	Full BPF Displacement filing needed at FERC
20016	30153	50161	520	LONGWOOD (LONGWOOD) 345/138/13.2KV TRANSFORMER CKT 1	TS	06/01/10	06/01/10	01/16/09	\$200,000			NTC date is 6/1/2010
20000	113	10140	520	Multi - Wallace Lake - Port Robson - RedPoint 138 kV	R	06/01/10	06/01/12	02/13/08	\$9,480,000		24 months	
20000	113	10141	520	Multi - Wallace Lake - Port Robson - RedPoint 138 kV	R	06/01/10	06/01/12	02/13/08	\$19,482,000		24 months	
19959	289	10375	520	Line - Clinton City Wave Trap	TS	06/01/10	06/01/10	10/17/06	\$122,000		9 months	
20016	291	10377	520	Line - Barn - Lonestar Ordinance Tap 69 kV	TS	06/01/10	06/01/12	01/16/09	\$25,000		6 months	
20000	294	10380	520	Line - North Mineola - Mineola 69 kV	R	06/01/10	06/01/10	02/13/08	\$350,000		15 months	

19953	295	10381	520	Line - Coffeyville Tap - Dearing - 138 kV	TS	06/01/10	06/01/10	06/26/07	\$1,008,000		24 months		Displacement need to make filing for displacement \$
20000	297	10383	520	Line - Qultman - Westwood 69 kV	R	06/01/10	06/01/10	02/13/08	\$3,827,000		24 months		
20016	296	10382	520	Line - Dyess - Elm Springs REC 161 kV CKT 1 #2	TS	06/01/10	06/01/10	01/16/09	\$6,252,000		24 months		Switch replacement, not a reconductor, is needed in 2008.
20027	613	10784	520	Line - Diana-Lone Star South 138 kV	R	12/01/10	12/01/10	01/27/09	\$100,000		12 months		
20027	449	10581	520	Line - Carthage - Rock Hill 69 kV	R	06/01/10	06/01/10	01/27/09	\$50,000		9 months		
20000	113	10786	520	Multi - Wallace Lake - Port Robson - RedPoint 138 kV	R	06/01/10	06/01/12	02/13/08	\$13,380,000		24 months		
20027	480	10617	520	Line - Snyder - Snyder 138kV	R	12/31/10	06/01/09	01/27/09	\$800,000		24 months		WFEC to supply mitigation plan
20027	292	10378	520	Line - Greggton - Lake Lamond 69 kV	R	06/01/10	06/01/11	01/27/09	\$1,496,000		24 months		
	231	10296	520	Line - Turk - SE Texarkana - 138 kV	GI	12/31/10			\$25,590,000		48 months		
	232	10297	520	Line - Turk - Sugar Hill 138 kV	GI	12/31/10			\$18,427,000		48 months		
	216	10275	520	Line - Ben Wheeler - Barton's Chapel (Rayburn) 138 kV Ckt 1	RN	06/01/10					18 months		Rayburn Country Project. Rayburn confirm project In Service Date is 06/01/2009.
20021	299	10385	523	Multi-Kansas Tap - Siloam City 161KV	R	06/01/10	06/01/12	01/16/09	\$4,212,500		24 months		
20021	299	10386	523	Multi-Kansas Tap - Siloam City 161KV	R	06/01/10	06/01/12	01/16/09	\$1,700,000		24 months		
20001	300	10387	523	Line - Kerr - 412 Sub 161 kV Rebuild	R	06/01/10	06/01/10	02/13/08	\$950,000		24 months		
20001	301	10388	523	XFR - Sallisaw 161/69 kV Auto #2	R	06/01/10	06/01/08	02/13/08	\$3,000,000		24 months		
	302	10389	523	Line - Siloam Springs Tap - Siloam City	PL	06/01/10			\$3,210,200		24 months		
20029	615	10792	524	Multi: Dover-Twin Lake-Crescent-Cottonwood conversion 138 kV	R	06/01/11	06/01/10	01/27/09	\$1,074,000		18 months		Project delayed. WFEC unable to completed their portion of project on schedule. OG&E cannot start transmission line conversion until WFEC is complete with their line. MITIGATION: Transfer all OG&E's Turkey Creek load to OG&E's Hennessey 138-12.5 kV Substation. This eliminates the need to address the voltage drop for the loss of the WFEC Dover auto-transformer.
20029	615	10793	524	Multi: Dover-Twin Lake-Crescent-Cottonwood conversion 138 kV	R	06/01/11	06/01/10	01/27/09	\$4,330,250		18 months		Project delayed. WFEC unable to completed their portion of project on schedule. OG&E cannot start transmission line conversion until WFEC is complete with their line. MITIGATION: Transfer all OG&E's Turkey Creek load to OG&E's Hennessey 138-12.5 kV Substation. This eliminates the need to address the voltage drop for the loss of the WFEC Dover auto-transformer.
	614	10787	524	Multi- Northwest-Woodward 345 kV	SU	01/01/10							
	614	10915	524	Multi- Northwest-Woodward 345 kV	SU	01/01/10							
	614	10788	524	Multi- Northwest-Woodward 345 kV	SU	01/01/10				\$218,000,000			
	614	10789	524	Multi- Northwest-Woodward 345 kV	SU	01/01/10							
	614	10790	524	Multi- Northwest-Woodward 345 kV	SU	01/01/10							
	614	10791	524	Multi- Northwest-Woodward 345 kV	SU	01/01/10							
	614	10913	524	Multi- Northwest-Woodward 345 kV	SU	01/01/10							
	310	10391	524	Line - Fitzhugh - Helberg 161 kV	PL	06/01/10			\$1,416,000				
	310	10392	524	Line - Great Lakes Carbon - Altus 161 kV	PL	12/31/10			\$543,000				
	310	10393	524	Line - Altus - Fitzhugh 161 kV	PL	12/31/10			\$660,000				
	310	10394	524	Line - Igo - Noark 161 kV	PL	12/31/10			\$2,994,000				
	310	10395	524	Line - Little Spadra - Igo 161 kV	PL	06/01/10			\$2,112,000				
	310	10396	524	Line - Noark - Great Lakes Carbon 161 kV	PL	12/31/10			\$522,000				
	309	10397	524	Line - Park Lane - Ahlso Tap 69 kV	PL	06/01/10			\$50,000				
	310	10398	524	Line - Razorback - Igo 161 kV	PL	06/01/10			\$2,973,000				
	310	10399	524	Line - Razorback - Short Mountain 161 kV	PL	06/01/10			\$500,000				
	310	10400	524	Line - Short Mountain - Branch 161 kV	PL	06/01/10			\$3,231,000				
20030	239	10305	525	Line - WFEC Snyder - AEP Snyder	R	12/31/10	06/01/09	01/27/09	\$3,373,000		16 months		Mitigation: Temporary Op Guide provided.
20003	136	10174	525	Line - Meeker - Hammett 138 kV	R	06/01/10	06/01/08	02/13/08	\$6,674,000		10 months		Mitigation: Temporary Op Guide provided.
20003	137	10175	525	Line - Wakita - Hazelton 69 kV	R	06/01/10	04/01/09	02/13/08	\$5,378,750		10 months		Mitigation: Temporary Op Guide provided.
20003	311	10401	525	Multi - Franklin SW - Acme - Norman - OU SW Conversion 138 kV	R	06/01/10	06/01/10	02/13/08	\$2,065,000		12 months		
20003	311	10402	525	Multi - Franklin SW - Acme - Norman - OU SW Conversion 138 kV	R	06/01/10	06/01/10	02/13/08	\$1,601,000		12 months		
20003	311	10403	525	Multi - Franklin SW - Acme - Norman - OU SW Conversion 138 kV	R	06/01/10	06/01/10	02/13/08	\$1,577,000		12 months		
20030	616	10794	525	Multi: WFEC-Dover-Twin Lake ,Crescent-Cottonwood conversion 138 kV	R	06/01/10	06/01/10	01/27/09	\$5,765,600		24 months		
20030	616	10795	525	Multi: WFEC-Dover-Twin Lake ,Crescent-Cottonwood conversion 138 kV	R	06/01/10	06/01/10	01/27/09	\$5,315,700		24 months		
20030	616	10796	525	Multi: WFEC-Dover-Twin Lake ,Crescent-Cottonwood conversion 138 kV	R	06/01/10	06/01/10	01/27/09	\$3,164,000		24 months		
20030	616	10797	525	Multi: WFEC-Dover-Twin Lake ,Crescent-Cottonwood conversion 138 kV	R	06/01/10	06/01/10	01/27/09	\$3,937,500		24 months		

20030	617	10798	525	Line - Carter Jct-Lake Creek 69 kV	R	06/01/10	06/01/10	01/27/09	\$150,000		8 months		
20030	135	10799	525	Multi - Lindsay - Lindsay SW and Bradley-Rush Springs lines	R	06/01/10	06/01/10	01/27/09	\$1,248,750		24 months		
20030	135	10173	525	Multi - Lindsay - Lindsay SW and Bradley-Rush Springs	R	06/01/10	06/01/10	01/27/09	\$2,328,750		24 months		Deferred in 2007 Expansion Plan. Cancelled by BOD in July 2008. Determined as needed in 2008 Expansion Plan.
20031	144	10183	526	Line - Curry County - North Clovis Conversion	R	06/01/10	06/01/10	01/27/09	\$200,000		24 months		Approved in 2008 budget. Replacement for upgrade of Curry autos. Requires changeout of 69 kV dist transformer to 115 kV. No mitigation needed if built by 6/1/10.
20004	248	10317	526		R	06/01/10	06/01/09	02/13/08			30 months		The earliest that any portion of the Wheeler County Interchange project can be in-service will be 6/1/2010. NTC should be modified to show the tap of the 230 kV line.
20004	248	10318	526	Multi - Wheeler County Project - Tap 230 kV line - Two new XF's - new 115	R	06/01/10	06/01/09	02/13/08	\$10,585,000		30 months		The earliest that any portion of the Wheeler County Interchange project can be in-service will be 6/1/2010. NTC should be modified to show the tap of the 230 kV line.
20004	248	10319	526		R	06/01/10	06/01/09	02/13/08			30 months		The earliest that any portion of the Wheeler County Interchange project can be in-service will be 6/1/2010. NTC should be modified to show the tap of the 230 kV line.
20031	156	10326	526	Multi - Hitchland - Texas Co. 230 kV and 115 kV	R	12/31/10	06/01/10	01/27/09	\$16,094,371		48 months		Interim Mitigations: Same as provided last year with load shed being the greatest measure of mitigating low voltages and overloads for the worst contingencies.
20004	156	10327	526	Multi - Hitchland - Texas Co. 230 kV and 115 kV	R	06/01/10	04/01/09	02/13/08	\$12,577,500		24 months		This large project is underway and portions of this project will be complete after the Summer of 2009.
20004	156	10328	526	Multi - Hitchland - Texas Co. 230 kV and 115 kV	R	06/01/10	06/01/09	02/13/08	\$15,848,000		48 months		This large project is underway and portions of this project will be complete after the Summer of 2009.
20004	156	10329	526	Multi - Hitchland - Texas Co. 230 kV and 115 kV	R	06/01/10	06/01/09	02/13/08	\$10,771,825		48 months		This large project is underway and portions of this project will be complete after the Summer of 2009.
20004	156	10330	526	Multi - Hitchland - Texas Co. 230 kV and 115 kV	R	06/01/10	06/01/09	02/13/08	\$10,766,250		48 months		This large project is underway and portions of this project will be complete after the Summer of 2009.
20004	156	10331	526	Multi - Hitchland - Texas Co. 230 kV and 115 kV	R	06/01/10	06/01/09	02/13/08	\$5,846,295		24 months		This large project is underway and portions of this project will be complete after the Summer of 2009.
20004	156	10200	526	Multi - Hitchland - Texas Co. 230 kV and 115 kV	R	06/01/10	06/01/08	02/13/08	\$5,132,829		24 months		This large project is underway and portions of this project will be complete after the Summer of 2009.
20004	156	10201	526	Multi - Hitchland - Texas Co. 230 kV and 115 kV	R	06/01/10	06/01/09	02/13/08	\$31,915,701		24 months		This large project is underway and portions of this project will be complete after the Summer of 2009.
20004	156	10325	526	Multi - Hitchland - Texas Co. 230 kV and 115 kV	PL	06/01/11		02/13/08	\$11,922,643				This large project is underway and portions of this project will be complete after the Summer of 2009.
20031	554	10704	526	Multi - Dallam - Channing - Tascosa - Northwest Lines	R	06/01/10	06/01/09	01/27/09			30 months		Project is a new line from Dallam to Channing, not a rebuild from Dalhart to Channing. Interim Mitigations: Currently there is no backup for the 69 kV service at Channing and Tascosa. Any contingency on this radial line will remove load from the system. Therefore, no mitigations
20031	554	10705	526	Multi - Dallam - Channing - Tascosa - Northwest lines	R	06/01/10	06/01/09	01/27/09	\$27,452,677		30 months		TO unable to complete Hitchland area projects until after summer 2009 shed load until then. Interim Mitigations: Currently there is no backup for the 69 kV service at Channing and Tascosa. Any contingency on this radial line will remove load from the system. Therefore, no mitigations
20031	554	10706	526	Multi - Dallam - Channing - Tascosa - Northwest lines	R	06/01/10	06/01/09	01/27/09			30 months		TO unable to complete Hitchland area projects until after summer 2009 shed load until then. Interim Mitigations: Currently there is no backup for the 69 kV service at Channing and Tascosa. Any contingency on this radial line will remove load from the system. Therefore, no mitigations
	315	10407	526	Line - Roosevelt County Interchange 115 kV - Curry County Interchange 1	R	06/01/10	06/01/15		\$200,000		6 months		Will need additional study
19989	316	10409	531	Multi - Knoll - Hays - Vine	R	06/01/10	06/01/08	02/02/07	\$536,000		18 months		Project removed from 2009 STEP, NTC to be withdrawn
20033	622	10810	536	Line - Richland - Rose Hill Junction 69 kV	R	06/01/13	06/01/10	01/27/09	\$2,815,000		18 months		Currently re-evaluating this project in light of Timber Jct. 138-69 kV project and TransCanada FLOWGATE 5328 Mitigation is putting the Clifton Unit (539655) on and increasing the output as needed to relieve the line loading. Substation cost 12 \$1.0 million.
20019	578	10739	536	Line - Knob Hill - Steele City 115 kV	R	06/01/10	06/01/09	11/17/08	\$14,747,550		48 months		
20006	321	10417	536	Line - Oaklawn - Oliver 69 kV	R	06/01/10	06/01/10	02/13/08	\$1,292,500		12 months		
19964	318	10412	536	Line - Coffeyville - Dearing 138 kV	TS	06/01/10	06/01/10	06/27/07	\$2,819,000		18 months		Cost is WERE portion only
20033	493	10638	536	Multi - Jarbalo - Stranger Creek - NW Leavenworth	R	06/01/11	06/01/10	01/27/09			15 months		Transmission Operating Directive 1216 modified to open Jarbalo-NW Leavenworth
20033	493	10639	536	Multi - Jarbalo - Stranger Creek - NW Leavenworth	R	06/01/11	06/01/10	01/27/09	\$8,050,000		15 months		Transmission Operating Directive 1216 modified to open Jarbalo-NW Leavenworth
20006	330	10426	536	Multi - Fort Scott - Marmaton/Litchfield 161kV	R	06/01/10	06/01/10	02/13/08	\$5,000,000		18 months		Mitigation is power factor correction on 69 kV system between Marmton and Litchfield
20006	330	10427	536	Multi - Fort Scott - Marmaton/Litchfield 161kV	R	06/01/10	06/01/10	02/13/08	\$2,400,000		18 months		Mitigation is power factor correction on 69 kV system between Marmton and Litchfield
20033	495	10640	536	Line - Lawrence Hill - Mockingbird 115 kV	R	06/01/10	06/01/10	01/27/09	\$2,377,448		18 months		Re-evaluating scope of project as part of a comprehensive assessment of the Lawrence load area.
20006	330	10426	536	Multi - Fort Scott - Marmaton/Litchfield 161kV	R	06/01/10	06/01/10	02/13/08	\$5,000,000		18 months		Mitigation is power factor correction on 69 kV system between Marmton and Litchfield
20006	330	10427	536	Multi - Fort Scott - Marmaton/Litchfield 161kV	R	06/01/10	06/01/10	02/13/08	\$2,400,000		18 months		Mitigation is power factor correction on 69 kV system between Marmton and Litchfield
20033	618	10806	536	Multi - NW Manhattan	R	12/01/11	06/01/10	01/27/09	\$17,437,500		24 months		Install Distribution Capacitors change conversion and East Manhattan - JEC 230 kV Distribution Transformer NLTs. Load projections have reduced
20033	621	10809	536	Line - E. Manhattan - JEC 230 kV	R		06/01/10	01/27/09	\$17,085,938		24 months		
20033	623	10811	536	Line - Timber Junction - Winfield 69 kV	R	12/31/10	06/01/10	01/27/09	\$7,415,000		24 months		Projections have reduced
20033	625	10813	536	Line - Rebuild Chisolm - Ripley 69 kV	R	06/01/10	06/01/10	01/27/09	\$2,255,250		18 months		
20033	599	10766	536	Line - 27th & Croco - Tecumseh Hill 115 kV	R	12/31/10	06/01/09	01/27/09	\$3,235,000		18 months		Project will probably defer to 2010 due to reduced load forecast. Expected in-service date is 12/1/2010.
20019	577	10738	536	Line - Kelly - Seneca 115 kV	R	12/01/10	06/01/09	11/17/08	\$4,487,000		24 months		FLOWGATE 5328 Mitigation is putting the Clifton Unit (539655) on and increasing the output as needed to relieve the line loading. Project has been suspended after TransCanada study determined that this line did
20006	328	10424	536	Line - Reno(Circle) - Moundridge Project 115 kV Rebuild	R	06/01/10	06/01/10	02/13/08	\$5,800,000		12 months		Rebuild will be done as part of Wichita - Reno County 345 kV
20006	171	10220	536	Line - Weaver - Rose Hill 69 kV	R	12/01/10	06/01/08	02/13/08	\$2,242,907		6 months		Transmission Operating Directive 1104
20006	172	10221	536	Line - Tecumseh Energy Center - Midland 115 kV	R	06/01/10	06/01/12	02/13/08	\$2,100,000		6 months		Substation cost estimate \$2,100,000
	173	10222	536	Line - Gill Energy Center West-Peck 69 kV Rebuild	PL	06/01/10			\$3,684,740		12 months		Project deferred.
	182	10231	536	Line - Chase - White Junction 69 kV	PL	06/01/10			\$5,184,701		8 months		Interim mitigation is application of existing Transmission Operating Directive 634
	328	10425	536	XFR - Reno(Circle)-Moundridge Project	PL	06/01/10			\$1,700,000				
	463	10601	536	XFR - East Manhattan 230/115 kV #2	PL	06/01/10			\$12,285,000		18 months		Project replaced by NW Manhattan

20034	627	10815	540	Line - Alabama - Lake Road 161 kV	R	06/01/09	06/01/10	01/27/09	\$20,000		3 months		
20034	628	10816	540	Line - Platte City - Smithville 161 kV	R	12/01/10	12/01/10	01/27/09	\$50,000		6 months		
	331	10428	540	Line - Clinton MIPU - Clinton AECI 161 kV	PL	06/01/11			\$2,418,750		6-12 months		
	332	10429	540	XFR - Sibley 161/69kV	PL	07/01/09			\$2,200,000		18 months		Transformer received; engineering in progress
	278	10361	540	Multi - Longview - Sampson 161 kV	PL	06/01/11			\$893,868		12-18 months		
	278	10362	540	Multi - Sampson - Grandview East 161 kV	PL	06/01/11					12-18 months		
	333	10430	540	Line - Ritchfield - Sibley 161 kV	PL	06/01/13			\$302,795		12-18 months		
	335	10432	540	Line - Hallmark - Ritchfield 161 kV	PL	06/01/13					12-18 months		
	192	10246	540	Line - Iatan - Platte City 161 kV Ckt 1	GI	06/01/10			\$1,050,000		6 months		
	626	10814	541	Multi - Iatan 345/161 kV Sub	PL	12/31/09			\$8,000,000		24 months		Project under construction, 66% complete
20010	382	10495	544	Line - Baxter Spring West - Hockerville 69 kV	R	06/01/10	12/01/11	02/13/08	\$50,000		6 months		
06/01/10	421	10547	544	Line - Sub 124 - Aurora H.T. - Sub 152 - Monett H.T. 69 kV	R	06/01/10	06/01/09	01/27/09	\$5,000		6 months		Incorrect CT ratio setting on record. Correct Rate A/B: 54/65 (Summer), 72/72 (Winter). Project no longer needed.
19969	338	10435	544	Line - SUB 184 - NEOSHO SOUTH JCT. - Neosho (SWPA) 161 kV	TS	06/01/10	06/01/10	09/22/06	\$1,215,000		12 months		Prior to BPF tariff
20011	212	10271	546	Line - Norton - Neergard 69 kV	R	06/01/10	06/01/08	02/13/08	\$1,485,000		24 months		SPRM will mitigate overload by transferring load prior to reconductor completion in 2010.
	339	10436	546	XFR - SWPS Bus - SWPS #2 161 kV	PL	10/01/10			\$3,200,000		24 months		Related to SW2 being added to the models; This will go to the review committee
	629	10817	640	Twin Church / South Sioux City Area	R	06/01/12	06/01/12		\$33,000,000				Delayed due to customer load delay, cost increase due to line routing issues - JH - Need date changed to come in line with previous Nebraska planning.
	630	10818	640	Upgrade Jeffrey - Gothenburg 115kV line	R	06/01/10	06/01/10		\$200,000				
<b>Year 2011</b>													
	284	10370	351	Line - Grandview - Osage	RN	06/01/13	06/01/09		\$6,000,000		36 months		Preliminary design has begun.
	342	10439	515	Line - BULL SHOALS - BULL SHOALS 161KV	RN	06/01/11	06/01/11		\$2,000,000				
20016	108	10441	520	Line - North Market - Arsenal Hill 69 kV	R	01/30/09	06/01/10	01/16/09	\$3,210,000		24 months		Completed
20016	343	10440	520	Line - Winnsboro - Magnolia Tap 69 kV	R	06/01/10	06/01/10	01/16/09	\$250,000		15 months		
20016	345	10442	520	Line - Magnolia - Forest Hill 69 kV	R	06/01/10	06/01/10	01/16/09	\$125,000		15 months		Should be removed. Switch # 9116 at Magnolia Tap has been removed, and therefore does not need to be replaced. Synner ratings are already 73/85 MVA.
20016	346	10443	520	Line - Forest Hills - Quitman 69 kV	R	06/01/10	06/01/10	01/16/09	\$100,000		15 months		
20000	347	10444	520	Line - Woodlawn - Baldwin 69 kV	R	06/01/11	06/01/11	02/13/08	\$2,000,000		18 months		
20016	348	10445	520	Line - Dyess - Tontitown 161 kV	R	06/01/11	06/01/11	02/13/08	\$224,000		12 months		
20027	452	10586	520	XFR - Whitney 138/69 kV	R	06/01/11	06/01/11	01/27/09	\$350,000		18 months		Re-rating autotransformers. However, leave this row in because switches will need to be replaced.
20016	349	10449	520	Line - MCNAB REC - Turk 115 kV recon	TS	12/31/11	04/01/12	01/16/09	\$540,000		60 months		Changed from PL. 2006 AG3
20016	349	10450	520	Line - McNab REC - Hope	TS	12/31/11	04/01/12	01/16/09	\$2,170,000		60 months		SPP to confirm if AECC McNab switches and strain bus need to be replaced. Changed from PL. 2006 AG3
20016	349	10456	520	XFR - Turk 345/138 kV	TS	12/31/11	04/01/12	01/16/09	\$7,310,000		60 months		Changed from PL. 2006 AG3
	350	10459	520	Line - Bann - Red Springs REC	GI	12/31/11			\$277,000		60 months		
	349	10446	520	Line - Ashdown - Okay 115 kV	GI	06/01/11			\$7,810,000		60 months		
	349	10447	520	Line - Ashdown - Patterson 138 kV	GI	12/31/11			\$11,431,000		60 months		
	349	10448	520	Line - MCNAB REC - Turk 115 kV	GI	12/31/11			\$1,773,000		60 months		
	349	10451	520	XFR - Okay 115/69 kV	GI	12/31/11			\$3,266,000		60 months		Replacement not needed in 2009 due to re-rating, but replacement needed in 2011 due to voltage conversion associated with Turk.
	349	10452	520	Line - Okay 115 - Turk 138 kV	GI	12/31/11			\$8,170,000		60 months		
	349	10457	520	XFR - Turk 138/115 kV #1	GI	12/31/11			\$7,806,000		48 months		
20001	393	10511	523	XFR - Afton 161/69 kV #2 Addition	R	06/01/11	06/01/12	02/13/08	\$2,500,000		24 months		
	302	10390	523	XFR - Siloam Springs Tap 345/161kV	PL	12/01/11			\$8,019,000		24 months		
20029	354	10463	524	Line - Muldrow to 3rd St. 69 kV	R	06/01/11	06/01/09	01/27/09	\$100,000		12 months		NTC date changed back original date to 6/1/2011 due to change in load. Area factory being closed. Project status needs to be changed to "Green"
20017	30158	50166	524	ARDMORE - ROCKY POINT 69KV CKT 1	TS	06/01/11	06/01/11	01/16/09	\$1,627,500		24 months		Full BPF
20017	30162	50170	524	SUNNYSIDE - UNIROYAL 138KV CKT 1	TS	06/01/11	06/01/11	01/16/09	\$50,000		12 months		
20017	30159	50167	524	DILLARD4 - HEALDTON TAP 138KV CKT 1	TS	06/01/11	06/01/11	01/16/09	\$300,000		12 months		Full BPF
19951	357	10467	525	XFR - Anadarko 138/69 kV	TS	06/01/11	06/01/11	01/02/07	\$2,000,000		16 months		
20031	632	10822	526	Multi: Legacy Interchange 69 kV Tap - 115/69 transformer - 2 new lines	R	06/01/11	06/01/09	01/27/09	\$3,937,500		24 months		This project is the fix for the Gaines Co. Auto STEP project. Interim Mitigations: To address the overload of one Gaines County 115/69 kV transformer for the outage of the parallel transformer, shed load to
20031	632	10823	526	Multi: Legacy Interchange 69 kV Tap - 115/69 transformer - 2 new lines	R	06/01/11	06/01/09	01/27/09	\$3,375,000		24 months		This project is the fix for the Gaines Co. Auto STEP project. Interim Mitigations: To address the overload of one Gaines County 115/69 kV transformer for the outage of the parallel transformer, shed load to

20031	632	10824	526	Multi: Legacy Interchange 69 kV Tap - 115/69 transformer -2 new lines	R	06/01/11	06/01/09	01/27/09	\$3,093,750		24 months	This project is the fix for the Gaines Co. Auto STEP project. Interim Mitigations: To address the overload of one Gaines County 115/69 kV transformer for the outage of the parallel transformer, shed load to
20031	633	10825	526	Multi: Eagle Creek 115 and 69 kV Taps - 116/69 XF - 3 new lines	R	04/15/11	06/01/09	01/27/09	\$3,285,000		36 months	Interim Mitigations: To address the overload of one Artesia 115/69 kV transformer for the outage of the parallel transformer, shed load to mitigate overload, then Close Switch 4755 @ 13TH ST. SUB [527761 --
20031	633	10826	526	Multi: Eagle Creek 115 and 69 kV Taps - 116/69 XF - 3 new lines	R	04/15/11	06/01/09	01/27/09	\$281,250		36 months	Interim Mitigations: To address the overload of one Artesia 115/69 kV transformer for the outage of the parallel transformer, shed load to mitigate overload, then Close Switch 4755 @ 13TH ST. SUB [527761 --
20031	633	10827	526	Multi: Eagle Creek 115 and 69 kV Taps - 116/69 XF - 3 new lines	R	04/15/11	06/01/09	01/27/09	\$281,250		36 months	Interim Mitigations: To address the overload of one Artesia 115/69 kV transformer for the outage of the parallel transformer, shed load to mitigate overload, then Close Switch 4755 @ 13TH ST. SUB [527761 --
20031	633	10828	526	Multi: Eagle Creek 115 and 69 kV Taps - 116/69 XF - 3 new lines	R	04/15/11	06/01/09	01/27/09	\$1,350,000		36 months	Interim Mitigations: To address the overload of one Artesia 115/69 kV transformer for the outage of the parallel transformer, shed load to mitigate overload, then Close Switch 4755 @ 13TH ST. SUB [527761 --
			526			06/01/11	06/01/09	01/27/09	\$4,716,600			2009 the contingency loss of one of the 115/69 kV transformers at Roswell Interchange will cause the other to overload to 48.9 MVA, of the 40 MVA rating, or 122.4%. Load shed approximately 9 MVA until the following remedial switching is done. Open switch #4704 at Dexter Tap [527619, 527589] Close switch #4744 at CV-Hagerman Tap [527685, 527650]  By 2012 any conversion of 69 kV load to 115 kV in the Roswell area should be complete, and the Eagle Creek project should be in-service, which will have changed the conditions observed in the SPP 2007 STEP study.
20031	696	10829		Line - Chaves Co - Roswell Int 69/115 kV Voltage Conversion	R							
20033	624	10812	536	Line - Fort Junction - West Junction City 115 kV	R	06/01/11	06/01/10	01/27/09	\$4,927,500		24 months	Interim mitigation is to increase generation at AEC, McPherson, and HEC to relieve overloading.
19964	375	10488	536	XFR - Rose Hill 345/138 kV #3 Addition	TS	06/01/11	06/01/11	06/27/07	\$8,100,000		24 months	Displacement need to make filing for displacement \$
20006	369	10482	536	Line - SW Lawrence - Wakarusa 115 kV Rebuild	R	06/01/11	06/01/11	02/13/08	\$2,000,000		18 months	Re-evaluating scope of project as part of a comprehensive assessment of the Lawrence load area.
20006	370	10483	536	Line - Co-op - Wakarusa	R	06/01/11	06/01/11	02/13/08	\$760,000		18 months	The required date to start the project has not yet occurred; Mitigation plans not required
20033	600	10767	536	Line - 27th & Croco - 41st & California 115 kV	R	12/31/11	06/01/09	01/27/09	\$3,227,500		24 months	Substation terminal upgrades is \$475,000.
20033	267	10350	536	Multi - Halstead - Mud Creek Jct. - Mid-American Jct. - Newton 69 kV	R	12/01/10	06/01/10	01/27/09	\$2,500,000		12 months	UVLS operational in Newton Division. Adjustment of CTs at Halstead and Newton to increase line rating is interim mitigation. Substation terminal costs is \$220,000 for Halstead and Newton.
20033	267	10351	536	Multi - Halstead - Mud Creek Jct. - Mid-American Jct. - Newton 69 kV	R	12/01/10	06/01/10	01/27/09	\$360,000		12 months	
20033	267	10352	536	Multi - Halstead - Mud Creek Jct. - Mid-American Jct. - Newton 69 kV	R	12/01/10	06/01/10	01/27/09	\$1,300,000		12 months	
20033	463	10602	536	Line - East Manhattan - McDowell 115 kV to 230 kV conversion	R	06/01/12	06/01/10	01/27/09	\$4,100,000		12 months	Install Distribution Capacitors change conversion and East Manhattan - JEC 230 kV Distribution Transformer NLTs. Load projections have reduced
19964	529	10674	536	Line - Rose Hill - Sooner 345 kV	TS	12/01/11	06/01/16	06/27/07	\$84,669,696		36 months	
20033	491	10636	536	Line - Bismark - COOP	R		06/01/09	01/27/09	\$2,085,000		18 months	Projections have reduced
20034	634	10830	540	Multi - Loma Vista - Montrose 161 kV - Tap into K.C. South	R	11/01/10	06/01/09	01/27/09	\$2,369,625		18 months	project is an alternative to replace the reconductor projects of the Duncan Rd - Blue Spring East and Martin City-Grandview East 161 kV lines. Mitigation plan is to increase Greenwood and Dogwood generation, and/or to reduce South Harper generation as needed to eliminate contingent overloads.
20034	635	10832	540	Multi - Edmond Substation	R	10/01/09	04/01/09	01/27/09	\$5,405,930		12-18 months	mitigation plan is to increase Lake Road generation to eliminate Lake Road 161/34.5 kV transformer overloads under emergency
	273	10356	540	Multi - Cookingham Tap of Nashua - Liberty West 161 kV	PL	06/01/11			\$1,350,000		12-18 months	
	273	10357	540	Multi - Cookingham Tap of Nashua - Liberty West 161 kV	PL	06/01/11					12-18 months	
	334	10431	540	Line - Lone Jack - Greenwood 161 kV	PL	06/01/11			\$7,096,402		24-36 months	
	377	10490	541	Line - Paola - Middle Creek 161 kV	PL	06/01/11			\$2,622,850		18 months	
	378	10491	541	Line - North Louisburg - Middle Creek 161 kV	PL	06/01/11			\$12,179,000		24 months	TO Zonal/local upgrade. Not for SPP reliability.
19970	352	10730	544	Line - Oronogo Junction - Riverton 161 kV Recond	TS	06/01/11	06/01/11	01/10/08	\$5,750,000		36 months	95.1% of costs BPF. 36 month lead time adequate.
19970	499	10644	544	XFR - Oronogo - 161/69 kV	TS	06/01/11	06/01/11	01/10/08	\$4,000,000		36 months	
	287	10373	DETEC	Line - Etoile - Chireno	PL	06/01/11			\$11,299,000			
<b>Year 2012</b>												
20016	30157	50165	520	SOUTH TEXARKANA REC - TEXARKANA PLANT 69KV CKT 1	TS	04/01/12	04/01/12	01/16/09	\$4,750,000		24 months	Full BPF
20016	30156	50164	520	SE TEXARKANA - TEXARKANA PLANT 69KV CKT 1	TS	04/01/12	04/01/12	01/16/09	\$35,000			Full BPF
20016	30155	50163	520	OKAY - TOLLETTE 69KV CKT 1	TS	04/01/12	04/01/12	01/16/09	\$80,000			Full BPF
20016	30148	50156	520	BANN - LONESTAR ORDINANCE TAP 69KV CKT 1 #2	TS	06/01/12	06/01/12	01/16/09	\$4,225,000		24 months	Full BPF
20016	30154	50162	520	MAGAZINE REC - NORTH MAGAZINE 161KV CKT 1 # 2	TS	06/01/12	06/01/12	01/16/09	\$100,000		12 months	Full BPF
20016	30152	50160	520	LINWOOD - POWELL STREET 138KV CKT 1	TS	06/01/12	12/01/12	01/16/09	\$456,000		15 months	Full BPF
20016	30150	50158	520	LAWTON EASTSIDE (LES 4) 345/138/13.8KV TRANSFORMER CKT 1	TS	12/01/12	12/01/12	01/16/09	\$4,560,000		24 months	Full BPF
20016	30142	50148	520	Line - Turk - NW Texarkana 345 kV	TS	04/01/12	04/01/12	01/16/09			33 months	Change PID and UID (old PID 349 and old UID 10453)
20016	30142	50149	520	Line - Turk - NW Texarkana 345 kV	TS	04/01/12	04/01/12	01/16/09	\$48,580,000		33 months	Change PID and UID (old PID 349 and old UID 10453)
20016	30142	50150	520	Line - Turk - NW Texarkana 345 kV	TS	04/01/12	04/01/12	01/16/09			33 months	Change PID and UID (old PID 349 and old UID 10453)

20016	288	10374	520	Line - Vallant Substation - Install 345 kV terminal equipment	TS	04/01/12	04/01/12	01/16/09	\$3,840,000		24 months	Notification received from the SPP concurring with the new in-service date due to the delay of the Turk plant. 73% BPF
20027	392	10510	520	Line - Howell - Kilgore 69 kV	R	06/01/12	06/01/09	01/27/09	\$2,700,000		18 months	Interim mitigation plan: After contingency of Lake Lamond-Greggton 69 kV, if Kilgore-Howell 69 kV overloads.
20000	387	10505	520	Line - Riverside - Okmulgee 138 kV	R	06/01/12	06/01/12	02/13/08	\$125,000		15 months	
20000	388	10506	520	Line - New Boston - North New Boston 69 kV	R	06/01/12	06/01/12	02/13/08	\$100,000		15 months	
20000	389	10507	520	Line - SE Texarkana - Texarkana 69 kV	R	06/01/12	06/01/12	02/13/08	\$122,000		15 months	
20000	391	10509	520	Line - Lone Star South - Pittsburg 138kV	R	06/01/12	06/01/12	02/13/08	\$300,000		15 months	
20017	30161	50169	524	HUGO - SUNNYSIDE 345KV OKGE	TS	04/01/12	04/01/12	01/16/09	\$75,000,000		42 months	Full BPF
20017	30163	50171	524	SUNNYSIDE (SUNNYSID3) 345/138/13.8KV TRANSFORMER CKT 1	TS	04/01/12	04/01/12	01/16/09	\$6,750,000		24 months	Full BPF
20002	395	10513	524	Line - OGE Russett - WFEC Russett 138kV	R	06/01/12	12/01/12	02/13/08	\$347,073		12 months	An SPP Flowgate
20002	396	10514	524	Breaker - Bodle 138 kV	R	06/01/12	06/01/12	02/13/08	\$1,000,000		12 months	Cost to install breaker plus relays at Bodle and replace relays at Caney Creek & OGE Brown.
20002	397	10515	524	Multi - Mustang - Cimarron 138 kV	R	06/01/12	06/01/12	02/13/08	\$6,850,000		24 months	Project will be replaced pending an Out of Cycle review of Cimarron - Haymaker
20002	397	10516	524	Multi - Mustang - Cimarron 138 kV	R	06/01/12	06/01/12	02/13/08	\$3,500,000		24 months	Project will be replaced pending an Out of Cycle review of Cimarron - Haymaker
19961	523	10668	524	Line - Rose Hill - Sooner 345 kV	TS	12/01/11	06/01/16	06/27/07	\$45,000,000		42 months	
	551	10837	524	Multi-3rd-Massard convert 69-161kV	R	06/01/16	06/01/17		\$2,200,000		24 months	Replaced Jonshon to 3rd Street tap with Johnson to Oak Park 161 kV
	551	10701	524	Multi-3rd-Massard convert 69-161kV	R	06/01/16	06/01/17		\$2,850,000		24 months	Replaced Jonshon to 3rd Street tap with Johnson to Oak Park 161 kV
20018	30165	50173	525	HUGO - SUNNYSIDE 345KV WFEC	TS	04/01/12	04/01/12	01/16/09	\$45,000,000		36 months	Full BPF
20003	402	10522	525	Multi - Granfield - Cache SW 138 kV	R	06/01/12	06/01/12	02/13/08	\$1,125,000		12 months	
20003	402	10523	525	Multi - Granfield - Cache SW 138 kV	R	06/01/12	06/01/12	02/13/08	\$7,306,000		24 months	
20003	402	10524	525	Multi - Granfield - Cache SW 138 kV	R	06/01/12	06/01/12	02/13/08	\$5,000,000		24 months	
20018	313	10405	525	Line - Vallant - Hugo 345 kV	TS	04/01/12	04/01/12	01/16/09	\$11,000,000		24 months	73% BPF
20018	314	10406	525	XFR - Hugo 345/138 kV	TS	04/01/12	04/01/12	01/16/09	\$5,000,000		24 months	73% BPF
20003	399	10519	525	Line - Lindsay - Walville 69 kV	R	06/01/12	06/01/12	02/13/08	\$1,347,000		12 months	
20003	400	10520	525	Line - Pharoah - Weleetka 138 kV	R	06/01/12	06/01/12	02/13/08	\$225,000		6 months	
20003	401	10521	525	Line - WFEC Russell 138 kV - AEP Altus Jct Tap 138 kV	R	06/01/12	06/01/12	02/13/08	\$50,000		6 months	
20006	410	10536	536	Line - Circle - Ark Valley - Tower 33 115 kV	R		06/01/12	02/13/08	\$2,306,250		12 months	Line is radial.
	561	10711	536	Line - Evans - Lakeridge 138 kV ckt 1	R	06/06/12	06/01/16		\$5,513,000		24 months	
20009	379	10492	541	Line - Hillsdale - Cedar Niles 161 kV	ZU	06/01/12	06/01/13	02/13/08	\$5,418,700		24 months	Delayed 2 year; mitigation not needed.
20009	417	10543	541	Line - Avondale - Gladstone 161 kV	R	06/01/12	06/01/12	02/13/08	\$13,000		6 months	
	414	10540	541	Line - Cedar Niles - Clare 161 kV	PL	06/01/12			\$3,756,500		24 months	TO Zonal/local upgrade. Not for SPP reliability.
20036	638	10839	544	Line - Sub 170 Nichols - Sub 80 Sedalia 69 kV	R	06/01/12	06/01/12	10/27/09	\$3,520,000		18 months	
20036	420	10546	544	Line - Jamesville - Sub 415-Blackhawk Jct. 69 kV	R	06/01/12	06/01/17	01/27/09	\$50,000		6 months	
	496	10641	544	Line - SUB 64 - JOPLIN 10TH ST. - SUB 145 - JOPLIN WEST 7TH 1	R	06/01/12	06/01/17		\$55,000		6 months	
	639	10840	545	Line - Blue Valley Plant - Sub M 161 kV	RN	06/01/12	10/01/09		\$2,625,000		24 months	Not under OATT
	424	10552	546	Line - Southwest - Brookline 161 kV	PL	06/01/12			\$450,000		24 months	Reconductor is complete but terminals need to be upgraded
	425	10553	546	Line - Southwest - Southwest Disposal 161 kV	PL	06/01/12			\$175,000		24 months	Reconductor is complete but terminals need to be upgraded
	426	10554	546	Line - Southwest Disposal - Battlefield 161 kV	PL	06/01/12			\$675,000		24 months	Reconductor is complete but terminals need to be upgraded
20011	441	10572	546	Line - Kickapoo - Sunset 69 kV	R	06/01/12	06/01/13	02/13/08	\$805,000		24 months	Upgrade requirements being re-evaluated in the 2009 STEP with the Twin Oaks 69 kV 30 MVAR cap bank installed in 2014.
	386	10500	TBD	Multi - Axtell -Knoll- Spearville	EU	06/01/12			\$73,000,000		48 months	
	386	10501	TBD	Multi - Axtell -Knoll- Spearville	EU	06/01/12			\$69,000,000			
	386	10502	TBD	Multi - Axtell - Comanche- Wichita	EU	06/01/12			\$47,000,000			
	386	10503	TBD	Multi - Axtell - Comanche- Wichita	EU	06/01/12			\$180,000,000			
	386	10504	TBD	Multi - Axtell -Knoll- Spearville	EU	06/01/12			\$10,000,000			
	636	10834	DETEC	Line-Chireno-Martinsville 138 kV	PL	06/01/12			\$7,617,000			
20015	30143	50151	AECC	MCNAB - TURK 115KV CKT 1 AECC	TS	04/01/12	04/01/12	01/16/09	\$165,000			Full BPF
20015	351	10480	AECC	Line - Hope - Fulton 115 kV Recond	TS	04/01/12	04/01/12	01/16/09	\$1,512,000			Full BPF
20015	351	10461	AECC	Fulton Switching Station	TS	04/01/12	04/01/12	01/16/09	\$440,000			Full BPF

Year 2013+												
20027	443	10575	520	Line - Osborne - Osborne Tap	R		06/01/13	01/27/09	\$2,000,000		24 months	
20027	641	10842	520	Line - Forest Hills-Quitman 69 kV Switches	R		06/01/13	01/27/09	\$150,000		15 months	
20027	477	10614	520	Line - Baldwin - Karnack Tap	R		06/01/13	01/27/09	\$6,900,000		24 months	
20000	450	10584	520	Multi - Flint Creek - Centerton 345 kV and Centerton - East Centerton 161 kV	R	06/01/14	06/01/14	02/13/08	\$11,000,000		48 months	
20000	450	10585	520	Multi - Flint Creek - Centerton 345 kV and Centerton - East Centerton 161 kV	R	06/01/14	06/01/14	02/13/08	\$30,000,000		60 months	
20000	450	10582	520	Multi - Flint Creek - Centerton 345 kV and Centerton - East Centerton 161 kV	R	06/01/14	06/01/14	02/13/08	\$9,000,000		60 months	Replaces Decatur-Centerton 345 kV project. Reconductoring Flint Creek-East Centerton 161 kV by 2010 defers the need for this 345 kV project until 2014.
20027	649	10853	520	Line - Lone Star-Locus Grove 115 kV	R		06/01/14	01/27/09	\$2,150,000		24 months	
20000	511	10656	520	Multi - Centerton - Osage Creek 345 kV	R	06/01/16	06/01/16	02/13/08	\$11,000,000		60 months	
20000	511	10659	520	Multi - Centerton - Osage Creek 345 kV	R	06/01/16	06/01/16	02/13/08	\$24,500,000		60 months	
20000	511	10660	520	Multi - Centerton - Osage Creek 345 kV	R	06/01/16	06/01/16	02/13/08	\$65,500,000		60 months	
20029	642	10843	524	Line Kilgore - VBI 69 kV	R	06/01/13	06/01/13	01/27/09	\$10,000		9 months	
20002	518	10663	524	Line - HSL East - HSL West 69 kV	R	06/01/16	06/01/16	02/13/08	\$250,000		12 months	
20017	30160	50168	524	FT SMITH 500 (FTSMITH3) 500/161/13.8KV TRANSFORMER CKT 3	TS	06/01/17	06/01/17	01/16/09	\$11,000,000		18 months	Full BPF
20017	30164	50172	524	VBI - VBI NORTH 69KV CKT 1	TS	06/01/17	06/01/17	01/16/09	\$100,000		9 months	Full BPF
20031	151	10195	526	XFR - Tuco 115/69 kV	R		06/01/18	01/27/09	\$1,260,000		24 months	A reconfiguration of the 69 kV loading will mitigate this contingency until 2018.
20031	153	10197	526	XFR - Polash Junction Interchange 115/69 kV	R		06/01/18	01/27/09	\$600,000		24 months	No project here! Step study justified this project with a modeling error. Model correction (turning on existing capacitor bank) deferred project from 2008 to 2016.
20004	247	10316	526	Line - Curry County Interchange-Farmers Electric REC-Clovis 115 kV	R	-		02/13/08	\$5,000		6 months	Did not issue the Withdraw in 2008 STEP due to project will be complete by year end. (Bob Lux also confirmed with John Fulton). This terminal upgrade is needed only after the North Clovis Substation is
20032	697	10914	531	Multi- Hutchinson Energy Center - Huntsville - St. John 115 kV Rebuild	R		06/01/15	01/27/09	\$12,487,500		36 months	
20033	643	10844	536	Line - Twin Valley - Altamont - Neosho 138 kV	R	06/01/13	06/01/13	01/27/09	\$4,000,000		18 months	
20033	533	10678	536	XFR - Auburn Road 230/115 kV	R	06/01/13	06/01/13	01/27/09	\$12,622,500		36 months	
20033	645	10846	536	XFR - 17th Street 138/69 kV second transformer	R	06/01/13	06/01/13	01/27/09	\$3,375,000		24 months	
20033	534	10679	536	XFR - Halstead South 138/69 kV #1	R	06/01/14	06/01/14	01/27/09	\$1,400,000		24 months	
20033	652	10857	536	Line - Hutchinson Energy Center - Huntsville 115 kV Rebuild	R	06/01/15	06/01/15	01/27/09	\$12,487,500		36 months	
20033	169	10218	536	Line - Chapman - Clayton Center 115 kV Uprate	R	06/01/17	06/01/17	01/27/09	\$10,000		12 months	Model error.
20034	646	10847	540	XFR - Clinton 161/69 kV	R	06/01/13	06/01/13	01/27/09	\$2,000,000		12-18 months	
20036	202	10258	544	Line - Sub 436 - Webb City Cardinal - Sub 110 - Oronogo Jct. 1 69 kV	R		06/01/14	01/27/09	\$400,000		12 months	
20036	537	10685	544	Line - Sub 383 - Monett 161 kV - Monett 5 161 kV	R	06/01/15	06/01/15	101/27/09	\$7,369,319		48 months	
20036	537	10686	544	XFR - Monett 5 161 kV - Monett City South 69 kV	R	06/01/15	06/01/15	101/27/09	\$8,000,000		36 months	
20036	203	10259	544	Line - Sub 109 - Atlas Jct. - Sub 108 - Carthage Northwest 1 69 kV	R		06/01/18	01/27/09	\$1,277,935		18 months	

### SPP 2nd Quarter 2009 Project Tracking List - Device

Blue	Complete.
Green	On Schedule 4 Year Horizon.
Yellow	On Schedule beyond 4 Year Horizon.
Orange	Behind schedule, interim mitigation provided or project may change but time permits the implementation of project.
Red	Delayed beyond the RTO Determined need date and no mitigation plan provided OR RTO Det. Need Date in 4 year Horizon and no estimated In-Service date provided.
\$ / months	Project lead time and cost estimated by SPP staff
EU	Economic Upgrade
GI	Generation Interconnect
PL	Transmission Owner Planned Project
PT	Project Tracking
R	Reliability project that SPP Recommends to the BOD for Authorization to Construct
RN	Reliability project not under SPP tariff
SU	Sponsored Upgrade
TS	Transmission Service with signed contract
ZU	Zonal Upgrade

NTC_ID	PID	UID	Area	Project Name	Project Type	Project Owner In-Service Date	RTO Determined Need Date	Letter of Notification to Construct Issue Date	Cost Estimate	Final Cost	Project Lead Time	Project Status	Project Status Comments
<b>Year 2008</b>													
19987	30019	50025	526	Device - San Andress Sub	R			02/02/07	\$750,000				Needs further analysis - Seminole project may mitigate. Project deferred beyond the planning horizon as per 2007 Expansion plan.
19986	30082	50088	536	Device - 3rd & VanBuren	R	06/01/11	06/01/11	02/02/07	\$500,000		18 months		Project is schedule for completion by 6/1/2011
20007	30061	50067	539	Device - Pratt Cap 115 kV	R	08/01/09	06/01/08	02/13/08	\$1,350,000				Construction has been started. Mitigation is to have City of Pratt generate to raise voltage.
<b>Year 2009</b>													
	30029	50035	520	Figure Five	PL	06/01/09			\$873,000				
	30170	50178	520	Delivery point- Hull	PL	04/30/09			\$654,000		15 months		
20028	30074	50080	523	Device - Tahlequah West 69 Cap kV	R	06/01/09	06/01/09	01/27/09	\$779,000		12 months		Replaces Tahlequah City#1 and City #2 Cap 69. In the event of a contingency that caused a true voltage violation which regulators would not mitigate we would shed load in the city of Tahlequah. This project will be deferred because the violations
	30171	50179	523	Device - Chelsea 69 kV Cap	PL	06/01/09			\$586,000		12 months		
	304	50148	524	Device - Madill Industal 138 kV	PL	06/01/09			\$264,000		12 months		Part of multi-upgrade project for new arc furnace near Arbuckle (See branch tab for more details and cost estimate)
20003	30044	50050	525	Device - Gypsum Cap 69 kV	R	04/01/09	04/01/08	02/13/08	\$150,000		12 months		Mitigation: Temporary Op Guide provided.
20030	30172	50180	525	Device Eagle Chief 69 kV Capacitor	R	06/01/10	06/01/09	01/27/09	\$300,000		12 months		Mitigation: Temporary Op Guide provided.
20033	30060	50066	536	Device - Sunset 69 kV Capacitor	ZU	08/15/09	06/01/09	01/27/09	\$1,220,913		18 months		Voltage issue around Gale area was identified in the 2006 STEP, and the Sunset 10 MVAR Capacitor was the identified as the solution. A Letter of Authorization was sent February 2, 2007 with a needed in-service date of June 2007. In the 2007
20033	30173	50181	536	Device - Walnut Street Capacitor	ZU	06/01/09	06/01/09	01/27/09	\$580,000		18 months		Installation planned as part of TransCanada.
20033	30128	50134	536	Device - Rock Creek 69 kV Capacitor	ZU		06/01/09	1/27/2009	\$427,000		18 months		Project is being re-evaluated due to load shifting between substations.
20007	30062	50068	539	Device - Harper Cap 138 kV	R	10/01/09	06/01/08	02/13/08	\$1,100,000		12 months		Construction has been started. Mitigation is to adjust the LTC on the Medicine Lodge 138/115 kV transformer, adjust generation at Fort Dodge, and request SPS to adjust the flow on the Texas Co Phase shifter.
20034	30185	50187	540	Device - Butler 161 kV Capacitor	R	06/01/13	06/01/09	01/27/09	\$405,000		12 months		Butler is not AREA 540 sub, should be AECIKAMO, but the model was wrong on it. The real low voltage issue at Adrain/Butler for the outage of Archie Jct-Adrain 161 kV line was missed due to the invalid contingency list, which has been corrected. KCOPL and AECI will work with SPP to find an alternative. Mitigation plan is to turn on Nevada generation and adjust the tap position of Butler 161/69 kV transformer as needed.
20034	30174	50182	540	Device - Craig 69 kV Capacitor	R		06/01/09	01/27/09	\$350,000		12 months		Believe this violation caused by model error, incorrect transformer tap setting; have requested this NTC not be included in 2009 STEP. No mitigation plan is needed in near term.
20009	30077	50083	541	Device - Craig Cap 161 kV	ZU	10/10/09	06/01/08	02/13/08	\$1,057,630		12 months		Project under study. Will be complete once 2008 series models are released. Distribution transformer taps to be adjusted accordingly to serve load adequately until the project can be implemented/energized.
20036	30067	50073	544	Device - Quapaw Cap 69 kV	R	12/01/09	06/01/18	01/27/09	\$1,500,000		18 months		Project under study. Will be complete once 2008 series models are released. Distribution transformer taps to be adjusted accordingly to serve load adequately until the project can be implemented/energized.
	30085	50091	546	Device - Mentor Substation	PL	06/01/09			\$1,800,000		24 months		
<b>Year 2010</b>													
	30070	50076	520	Sugar Loaf	PL	07/01/10			\$500,000				
20028	30072	50078	523	Device - Afton Cap 69 kV	R	06/01/10	06/01/09	01/27/09	\$800,000		18 months		This voltage violation is at an NEO/REC substation that is on the end of a NEO/REC radial line out of the Afton substation. In the event of a voltage violation that cannot be mitigated with regulators we would shed this load. This project will be
20003	30079	50085	525	Device - Carter Cap 69 kV	R	06/01/10	06/01/10	02/13/08	\$324,000		12 months		
20006	30056	50062	536	Device - Seneca Cap 115 kV	ZU	06/01/10	06/01/08	02/13/08	\$588,600		18 months		Second capacitor bank identified for addition of TransCanada load. Required by summer 2010. Addition of Knob Hill - Steele City 115 kV identified for TransCanada. Capacitor bank will be installed at TransCanada.
20010	30078	50084	544	Device - Riverside Sub Cap 161kV	ZU	12/01/10	06/01/09	02/13/08	\$2,600,000		24 months		Project under study, will be complete once 2008 series models are released. Dist. Xfmr taps to be adjusted accordingly to serve load adequately until the project can be implemented/energized
<b>Year 2011</b>													
20001	30086	50092	523	Device - Jay Cap 69 kV	R	06/01/11	06/01/11	02/13/08	\$800,000		18 months		This project will be deferred because the violations occurred in models that didn't use system transformer LTCs, when voltage regulation is utilized it defers this project.
20032	30176	50184	531	Device - Kinsley Capacitor 115 kV	R	06/01/11	06/01/11	01/27/09	\$225,000		18 months		
20007	30090	50096	539	Device - Russell 115 kV	R	06/01/11	06/01/11	02/13/08	\$750,000		12 months		Currently in engineering design and cost review. Request City of Russell to generate to raise voltage.
<b>Year 2012</b>													
19985	30041	50047	525	Device - Comanche	R	06/01/12	06/01/12	02/02/07	\$350,000		12 months		Shed load at Loco Substation (up to 3.5MW in 2007 Summer Peak) Shed load at Empire Substation (up to 5MW in 2007 Summer Peak). MW values mentioned are typical for a Summer Peak case. Mitigation Plan under review by SPP staff.
20003	30093	50099	525	Device - Latta Cap 138 kV	R	06/01/12	06/01/12	02/13/08	\$324,000		12 months		
20003	30094	50100	525	Device - Mustang Cap 69 kV	R	06/01/12	06/01/12	02/13/08	\$162,000		12 months		
20006	30096	50102	536	Device - Eudora Cap 115 kV	ZU	06/01/12	06/01/12	02/13/08	\$580,000		18 months		

20007	30098	50104	539	Device - Plainville Cap 115 kV	R	06/01/12	06/01/12	02/13/08	\$1,500,000		12 months		
<b>Year 2013+</b>													
20028	30177	50185	523	Device - Tahlequah West #2 Capacitor	R		06/01/13	01/27/09	\$291,600		12 months		GRDA is requesting that this project is removed and will be replaced by an AECI/KAMO 161/69 Xlrnr and new 69 kV line which will terminate at Peggs.
20030	30178	50186	525	Device - Electra 69 kV Capacitor	R	06/01/13	06/01/13	01/27/09	\$240,000		12 months		
20030	30039	50045	525	Device - Esquandale Cap 69 kV	R	06/01/14	06/01/14	01/27/09	\$243,000		12 months		WFEC will move ahead line project: Cache to Grandfield to mitigate voltage problem. Short term mitigation until line can be built will be transferring load from Hulen Substation to Empire and Duncan Substations
20006	30105	50111	536	Device - Springhill Cap 115 kV	ZU	06/01/13	06/01/13	02/13/08	\$1,000,000		18 months		
20034	30076	50082	540	Device - Warsaw 2 69 kV Capacitor	R		06/01/13	01/27/09	\$409,900		12 months		Believe this violation caused by model error, incorrect transformer tap setting; have requested this NTC not be included in 2009 STEP. No mitigation plan is needed in near-term.