



**SECOND QUARTERLY  
PROJECT TRACKING  
REPORT 2016**

April 2016

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## EXECUTIVE SUMMARY

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.

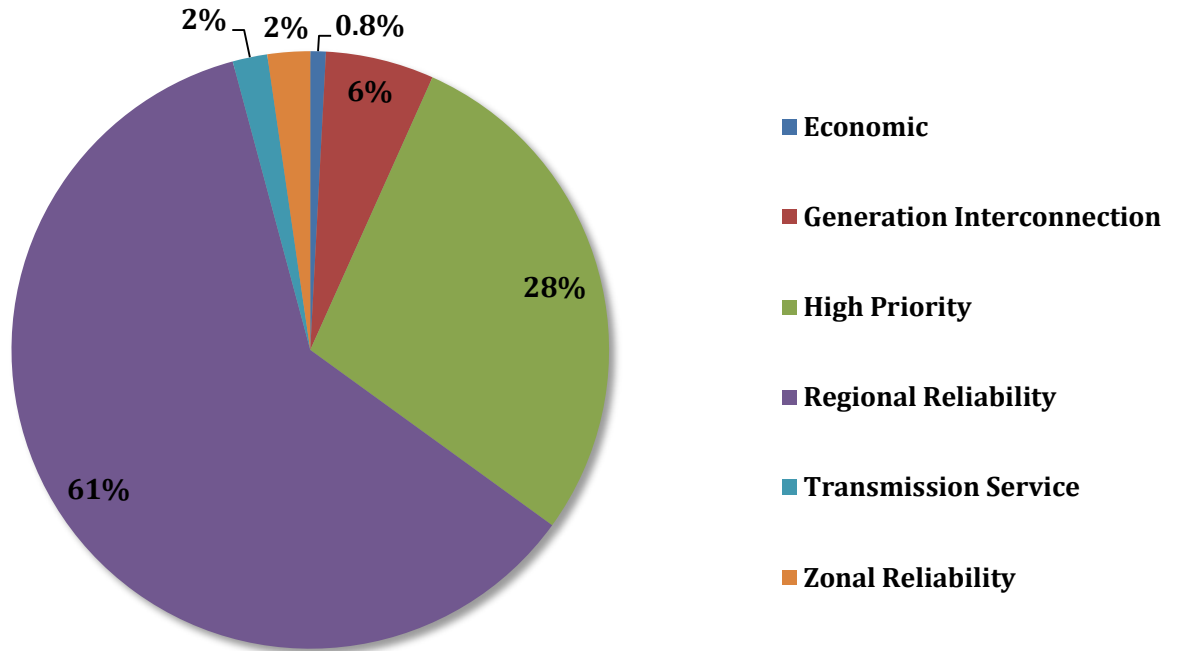
Each quarter SPP staff solicits feedback from the project owners to determine the progress of each approved transmission project. This quarterly report charts the progress of all SPP Transmission Expansion Plan (STEP) projects approved either directly by the SPP Board of Directors (Board) or through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

The reporting period for this report is November 1, 2015 through January 31, 2016. Table 1 provides a summary of all projects in the current Project Tracking Portfolio (PTP), which includes all Network Upgrades in which construction activities are ongoing, or construction has completed but not all the close-out requirements have been fulfilled in accordance to Section 13 of Business Practice 7060. The PTP includes all active Network Upgrades including transmission lines, transformers, substations, and devices.

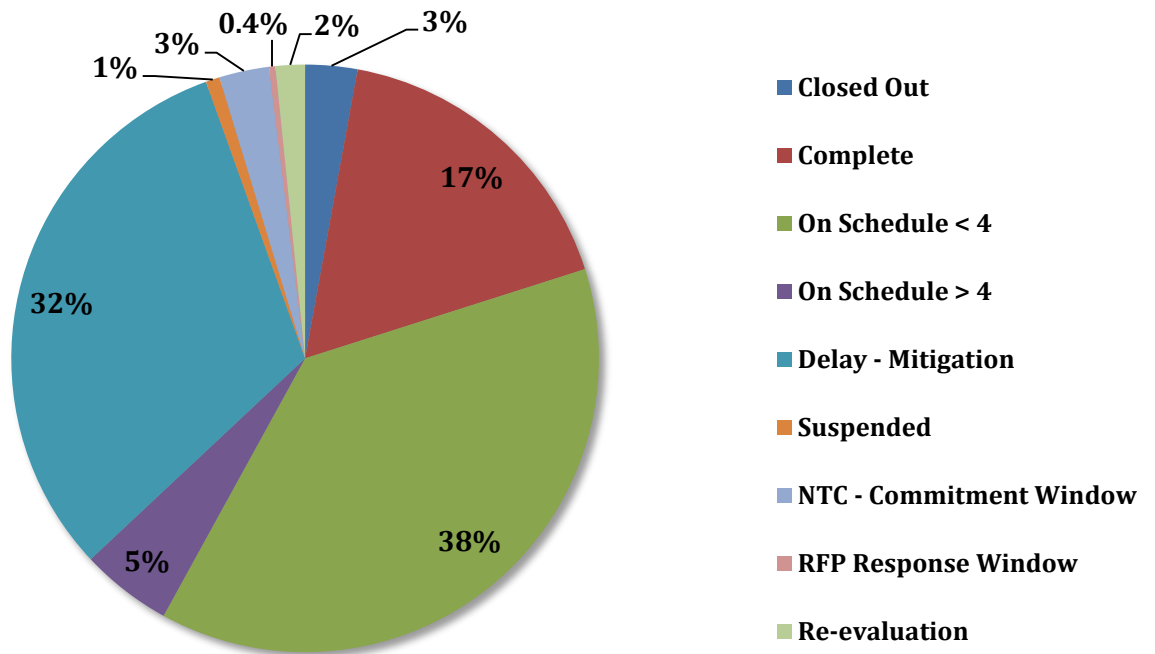
Table 1 below summarizes the PTP for this quarter. Figure 1 reflects the percentage cost of each upgrade type in the PTP. Figure 2 shows the percentage cost of each project status in the PTP.

Upgrade Type	No. of Upgrades	Estimated Cost	Miles of New	Miles of Rebuild	Miles of Voltage Conversion
Economic	4	\$39,710,956	0.0	0.0	28.8
High Priority	83	\$1,335,949,052	947.1	16.6	0.0
Regional Reliability	296	\$2,874,834,527	1592.0	463.2	386.4
Transmission Service	21	\$88,701,139	12.7	15.3	0.0
Zonal Reliability	9	\$108,886,545	34.7	28.5	0.0
<b>NTC Projects Subtotal</b>	<b>413</b>	<b>\$4,448,082,219</b>	<b>2586.5</b>	<b>523.6</b>	<b>415.2</b>
Generation Interconnection	71	\$277,319,428	20.0	0.0	0.0
Regional Reliability - Non OATT	1	\$7,107,090	0.0	0.0	0.0
TO - Sponsored	6	\$38,738,536	10.7	0.0	0.0
<b>Non-NTC Projects Subtotal</b>	<b>78</b>	<b>\$323,165,054</b>	<b>30.7</b>	<b>0.0</b>	<b>0.0</b>
<b>Total</b>	<b>491</b>	<b>\$4,771,247,273</b>	<b>2617.2</b>	<b>523.6</b>	<b>415.2</b>

**Table 1: Q2 2016 Portfolio Summary**



**Figure 1: Percentage of Project Type on Cost Basis**



**Figure 2: Percentage of Project Status on Cost Basis**

## NTC PROJECT SUMMARY

In adherence to the OATT and Business Practice 7060, SPP issues Notifications to Construct (NTCs) to Designated Transmission Owners (DTOs) to commence the construction of Network Upgrades that have been approved or endorsed by the Board intended to meet the construction needs of the STEP, OATT, or Regional Transmission Organization (RTO).

Figure 3 reflects project status within each source study, and Table 2 provides the supporting data. Figure 4 shows the amount of estimated cost by in-service year for all Network Upgrades that have been issued an NTC or NTC-C. **Note: Figures 3 and 4, and Table 2 provide data for all projects for which SPP has issued an NTC or NTC-C, regardless of completion date, and therefore include data from Network Upgrades no longer included in PTP.**

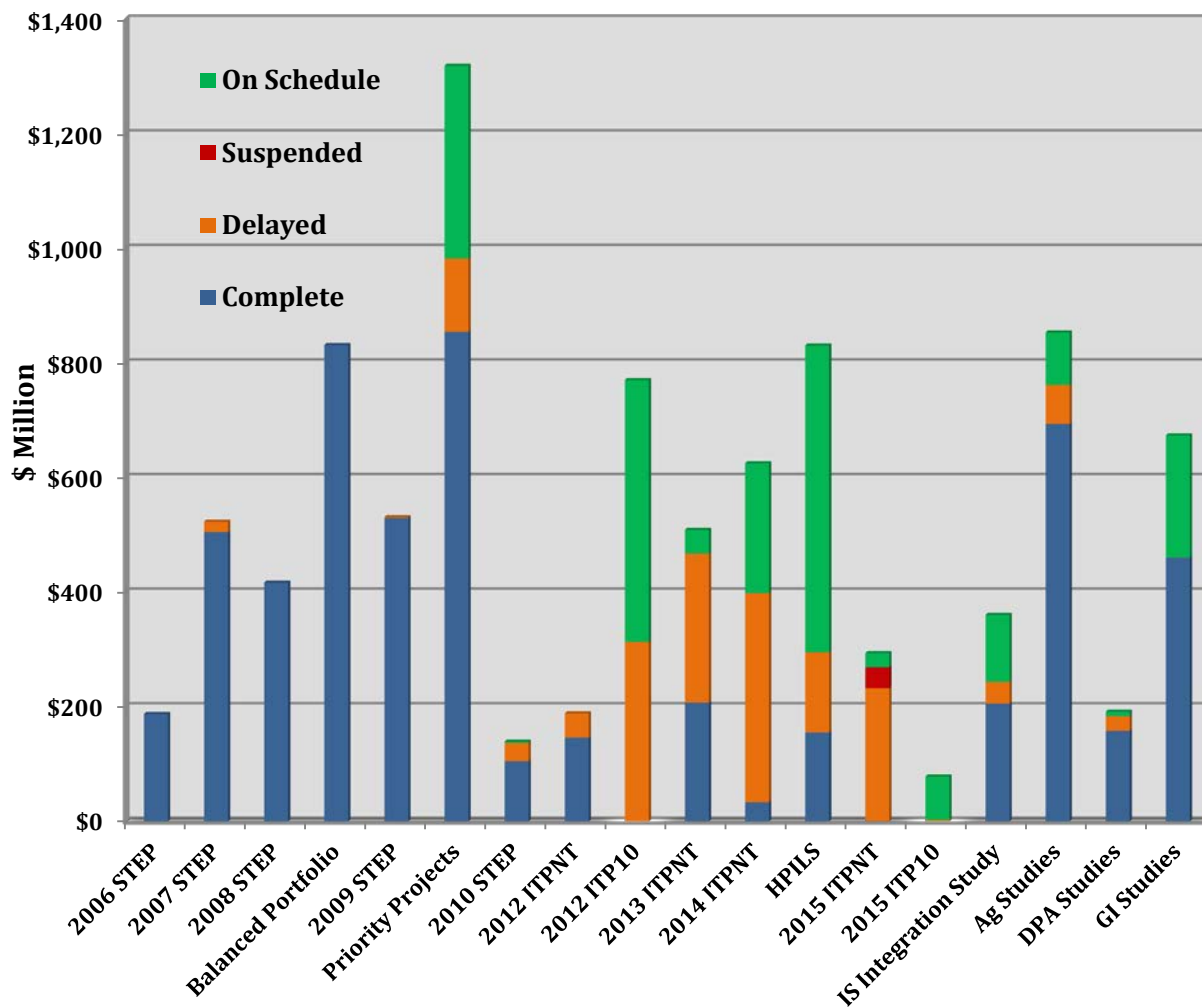
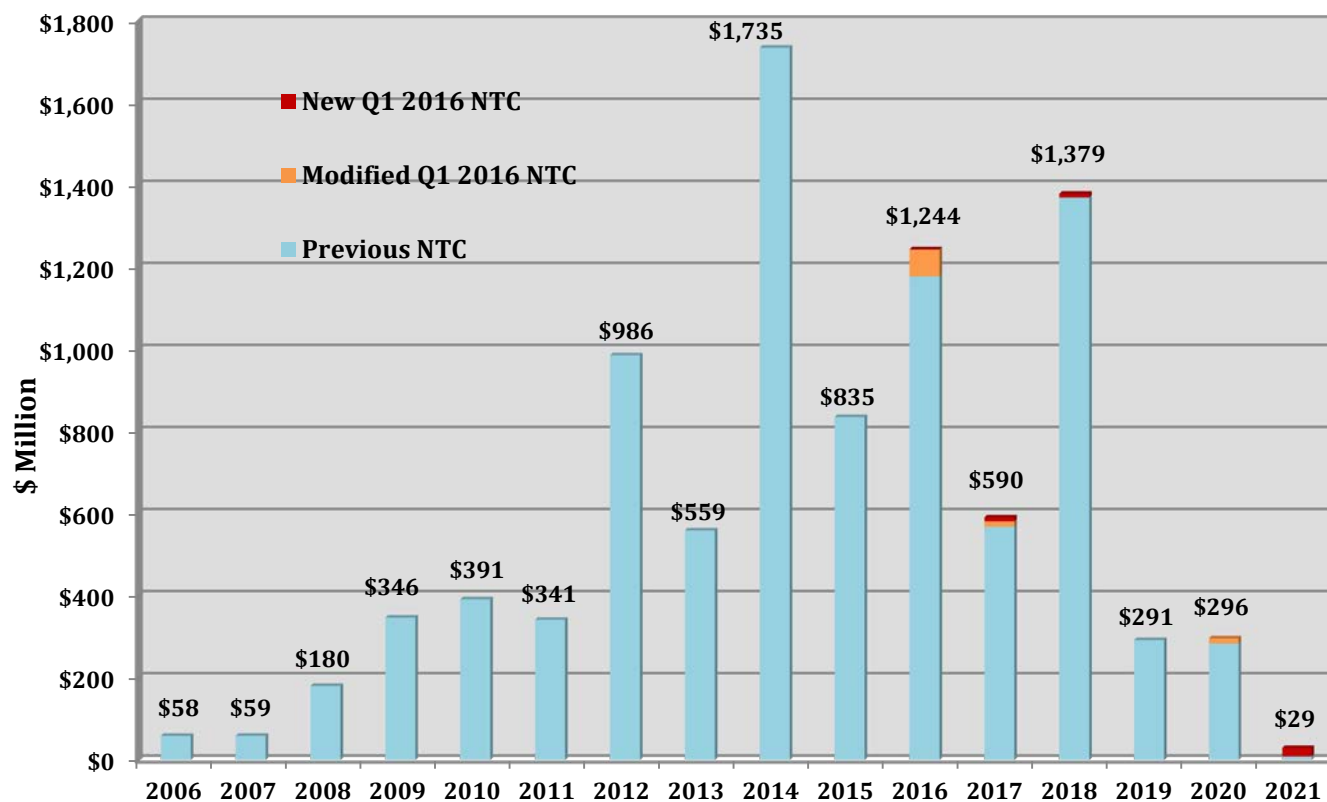


Figure 3: Project Status by NTC Source Study

Source Study	Complete	Delayed	Suspended	On Schedule	Total
2006 STEP	\$187,367,084	\$0	\$0	\$0	\$187,367,084
2007 STEP	\$504,976,613	\$17,964,000	\$0	\$0	\$522,940,613
2008 STEP	\$416,670,179	\$0	\$0	\$0	\$416,670,179
Balanced Portfolio	\$831,489,690	\$0	\$0	\$0	\$831,489,690
2009 STEP	\$529,543,088	\$1,400,000	\$0	\$0	\$530,943,088
Priority Projects	\$854,531,082	\$127,995,000	\$0	\$336,433,874	\$1,318,959,956
2010 STEP	\$104,984,018	\$31,785,046	\$0	\$2,332,800	\$139,101,864
2012 ITPNT	\$146,150,500	\$42,412,744	\$0	\$0	\$188,563,244
2012 ITP10	\$0	\$313,376,623	\$0	\$456,837,706	\$770,214,329
2013 ITPNT	\$207,206,950	\$260,103,615	\$0	\$41,462,612	\$508,773,177
2014 ITPNT	\$33,296,785	\$365,140,517	\$0	\$226,631,488	\$625,068,790
HPILS	\$155,106,457	\$140,013,324	\$0	\$535,440,754	\$830,560,535
2015 ITPNT	\$0	\$232,387,459	\$36,731,836	\$24,473,636	\$293,592,930
2015 ITP10	\$0	\$2,200,956	\$0	\$76,052,596	\$78,253,551
IS Integration Study	\$205,500,000	\$38,000,000	\$0	\$116,800,000	\$360,300,000
Ag Studies	\$693,910,706	\$67,906,168	\$0	\$91,629,214	\$853,446,088
DPA Studies	\$158,054,495	\$25,683,370	\$0	\$7,652,131	\$191,389,996
GI Studies	\$460,359,584	\$319,566	\$0	\$213,035,984	\$673,715,133
<b>Total</b>	<b>\$5,489,147,229</b>	<b>\$1,666,688,388</b>	<b>\$36,731,836</b>	<b>\$2,128,782,794</b>	<b>\$9,321,350,247</b>

**Table 2: Project Status by NTC Source Study**



**Figure 4: Estimated Cost for NTC Project per In-Service Year**

**NTC ISSUANCE**

Five new NTCs were issued since the last quarterly report totaling an estimated \$46.9 million.

NTCs were issued for 10 new upgrades as a result of the completion of Aggregate Studies SPP-2013-AG3-AFS-6, SPP-2014-AG1-AFS-6, and SPP-2015-AG1-AFS-6. The total estimated cost of the new Aggregate Study upgrades is \$39.7 million.

Two NTCs were issued as a result of completed Generation Interconnection studies GEN-2011-019 and GEN-2014-021, with a combined estimated cost of \$7.2 million.

Three NTC modifications were issued to Southwestern Public Service Company (SPS) to detail project scope changes approved by the Board at its January 2016 meeting.

NTC No. 200371 was issued to SPS after the Board approved Staff's recommendation to remove the conditions of a previously issued Notification to Construct with Conditions (NTC-C). The NTC-C was issued as a result of the 2015 ITP Near-Term Assessment approved by the Board in January 2015. The total estimated cost of the Network Upgrades described in this NTC is \$54.8 million.

Table 3 summarizes the NTC activity from January 1, 2016 through March 31, 2016. NTC ID values in **bold** font indicate NTC-Cs.

NTC ID	DTO	NTC Issue Date	Upgrade Type	Source Study	No. of Upgrades	Estimated Cost of New Upgrades	Estimated Cost of Previously Approved Upgrades
200365	SPS	1/12/2016	Regional Reliability	SPP-2014-AG1-AFS-6	8	\$29,976,259	
200366	SPS	1/12/2016	Transmission Service	SPP-2013-AG3-AFS-6	1	\$9,485,379	
200367	OPPD	1/12/2016	Generation Interconnection	GEN-2014-021	1	\$122,455	
200368	SPS	2/12/2016	Regional Reliability	2010 STEP	1		\$10,316,217
200369	SPS	2/12/2016	Regional Reliability	SPP-2011-AG3-AFS-11	2		\$15,500,876
200370	SPS	2/12/2016	High Priority	HPILS	1		\$10,671,660
200371	SPS	2/12/2016	Regional Reliability	2015 ITPNT	2		\$54,843,257
200375	OGE	3/11/2016	Generation Interconnection	GEN-2011-019	1	\$7,099,999	
200377	WR	3/17/2016	Transmission Service	SPP-2015-AG1-AFS-6	1	\$200,000	
<b>Total</b>					<b>18</b>	<b>\$46,884,092</b>	<b>\$91,332,010</b>

**Table 3: Q1 2016 NTC Issuance Summary**

**NTC WITHDRAW**

One NTC was withdrawn for two Network Upgrades since the last quarterly report, totaling an estimated \$41.5 million.

Both of the withdrawn Network Upgrades were determined to no longer be needed as a part of the ongoing 2016 ITP Near-Term Assessment. The Board approved the withdrawals at its meeting in January 2016.

Table 4 lists the NTC Withdraw activity from January 1, 2016 through March 31, 2016. NTC ID values in **bold** font indicate NTC-Cs.

NTC ID	DTO	NTC Withdraw Date	Upgrade Type	Original Source Study	No. of Upgrades	Estimated Cost of Withdrawn Upgrades
200372	AEP	2/12/2016	Regional Reliability	2015 ITPNT	2	\$41,520,892
<b>Total</b>					<b>2</b>	<b>\$41,520,892</b>

**Table 4: Q1 2016 NTC Withdraw Summary**



### COMPLETED PROJECTS

Twenty-three (23) Network Upgrades with NTCs, six Base Plan Funded Network Upgrades via the Integrated System Integration, and one Generation Interconnection Network Upgrade were verified as completed during the reporting period, totaling an estimated \$309.3 million.

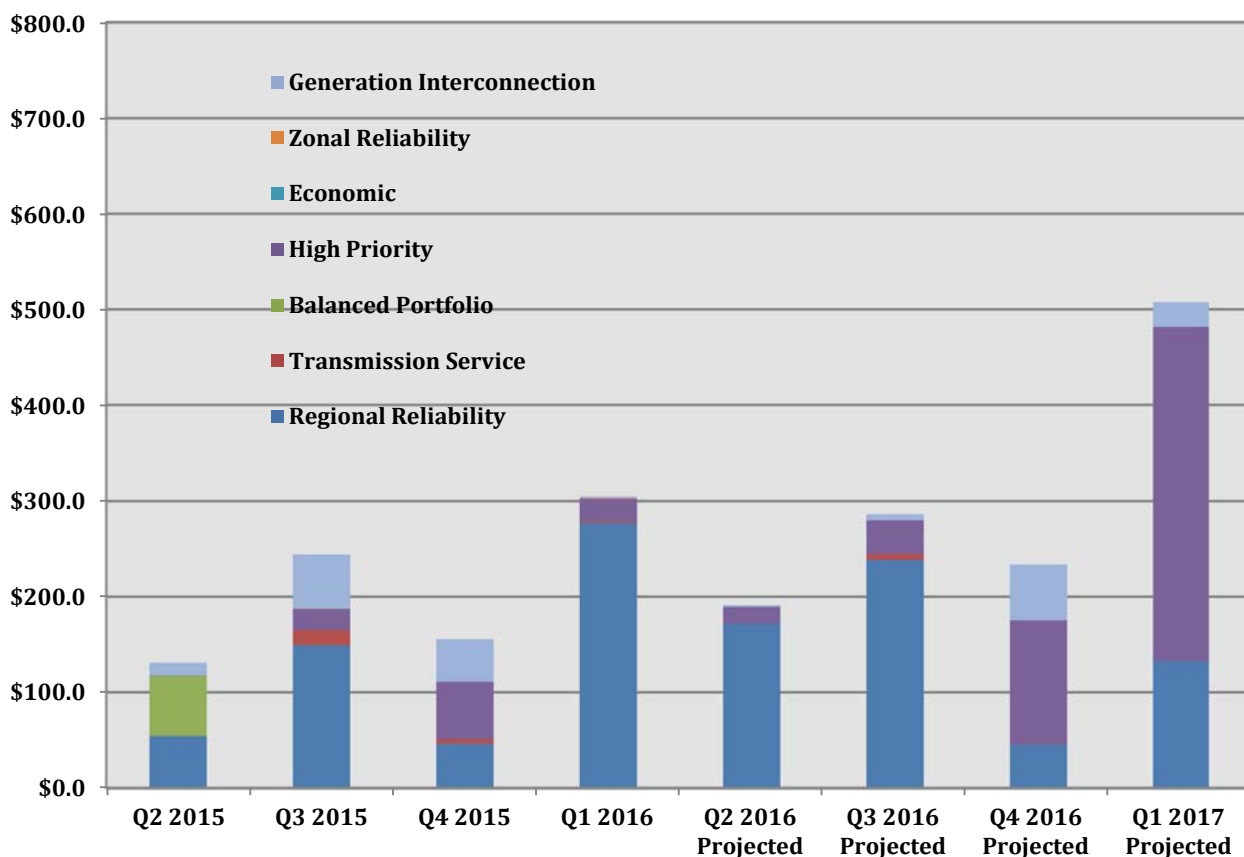
Table 5 lists the Network Upgrades reported and confirmed as completed during the reporting period. Table 6 summarizes the completed projects over the previous year, including Network Upgrades not yet confirmed as completed. Figure 5 reflects the completed projects by upgrade type on a cost basis for the current year and the following year based on current projected in-service dates. Tables 7 and 8 summarize all Network Upgrades that include construction of transmission lines, both for the current year and the following year. **Note: Previous quarter's updated results are listed as the Transmission Owners may make adjustments to final costs and status of projects completed during the year.**

UID	Network Upgrade Name	Owner	NTC Source Study	Cost Estimate
10414	Tyler - Westlink 69 kV Ckt 1 Rebuild	WR	Ag Studies	\$6,278,731
10828	ARTESIA SOUTH RURAL SUB - ARTESIA TOWN SUB 69KV CKT 1	SPS	2008 STEP	\$4,385,939
11007	HAPPY INTERCHANGE 115/69KV TRANSFORMER CKT 1	SPS	2010 STEP	\$1,518,414
11101	PORTALES INTERCHANGE - ZODIAC 115KV CKT 1	SPS	2009 STEP	\$6,500,000
11104	Convert Muleshoe 69 kV to 115 kV	SPS	2012 ITPNT	\$3,000,000
11110	Graham Interchange 115/69 kV Transformer Ckt 1	SPS	2013 ITPNT	\$2,035,000
11318	Swisher County Interchange 230/115 kV Ckt 1 Transformer	SPS	2014 ITPNT	\$2,850,475
11512	Channing - Potter County 230 kV Ckt 1	SPS	2013 ITPNT	\$1,775,315
11514	Channing - XIT 230 kV Ckt 1	SPS	2013 ITPNT	\$9,171,505
11515	XIT 230/115/13.2 kV Transformer Ckt 1	SPS	2013 ITPNT	\$1,954,807
50103	Vaughn 115 kV Cap Bank	WR	2014 ITPNT	\$825,428
50230	ALTOONA EAST 69KV	WR	Ag Studies	\$1,528,201
50401	Crosby 115 kV #2	SPS	2012 ITPNT	\$1,265,432
50515	Deaf Smith County Interchange 230/115 kV Transformer Ckt 1 #2	SPS	Ag Studies	\$4,236,816
50517	Ochiltrie - Tri-County REC Cole 115 kV Ckt 1 Rebuild	SPS	2013 ITPNT	\$12,470,000
50691	Butler - Weaver 138 kV Terminal Upgrades Ckt 1	WR	2014 ITPNT	\$0
50727	Creswell - Sumner County No.4 Rome 69 kV Ckt 1 Rebuild	WR	2014 ITPNT	\$4,259,395
50730	Crestview - Northeast 69 kV Ckt 1 Rebuild	WR	2014 ITPNT	\$8,968,153
50763	Ahloso - Park Lane 138 kV Ckt 1 Voltage Conversion	OGE	2014 ITPNT	\$5,693,264
50873	Battle Axe - Road Runner 115 kV Ckt 1	SPS	HPILS	\$7,785,501
50915	Park Lane 138 kV Terminal Upgrades	OGE	Ag Studies	\$89,100
50968	Battle Axe 115 kV Substation	SPS	HPILS	\$3,464,499
51014	Grady - Round Creek 138 kV Ckt 1	AEP	HPILS	\$12,132,497
51306	AVS - Charlie Creek 345 kV Ckt 2	BEPC	IS Integration Study	\$82,000,000
51308	Charlie Creek 345 kV Substation	BEPC	IS Integration Study	\$9,000,000
51310	Charlie Creek - Judson 345 kV Ckt 1	BEPC	IS Integration Study	\$82,000,000
51311	Judson 345/230 kV Substation	BEPC	IS Integration Study	\$27,000,000
51312	Judson - Williston 230 kV Ckt 1	BEPC	IS Integration Study	\$3,500,000
51313	Williston 230 kV Terminal Upgrades	BEPC	IS Integration Study	\$2,000,000
51342	Renfrow 345 kV - add terminal for GEN-2013-029	OGE	GI Studies	\$1,588,977
<b>Total</b>				<b>\$309,277,448</b>

**Table 5: Q1 2016 Completed Network Upgrades**

Upgrade Type	Q2 2015	Q3 2015	Q4 2015	Q1 2016	Total
<b>Regional Reliability</b>	15 \$54,310,601	18 \$149,275,236	11 \$46,225,232	23 \$277,477,306	<b>67</b> <b>\$527,288,375</b>
<b>Transmission Service</b>	0 \$0	4 \$15,753,551	1 \$4,800,000	2 \$1,617,301	<b>7</b> <b>\$22,170,852</b>
<b>Balanced Portfolio</b>	3 \$62,949,252	0 \$0	0 \$0	0 \$0	<b>3</b> <b>\$62,949,252</b>
<b>High Priority</b>	1 \$327,861	5 \$22,184,483	2 \$59,900,000	3 \$23,382,497	<b>11</b> <b>\$105,794,841</b>
<b>Economic</b>	0 \$0	0 \$0	0 \$0	0 \$0	<b>0</b> <b>\$0</b>
<b>Zonal Reliability</b>	0 \$0	1 \$355,000	0 \$0	1 \$825,428	<b>2</b> <b>\$1,180,428</b>
<b>Generation Interconnection</b>	2 \$13,322,627	9 \$56,639,246	11 \$44,645,077	1 \$1,588,977	<b>23</b> <b>\$116,195,927</b>

**Table 6: Completed Project Summary through 1st Quarter 2016**



**Figure 5: Completed Upgrades by Type per Quarter**

Voltage Class	Number of Upgrades	New	Rebuild/ Reconductor	Voltage Conversion	Estimated Cost
69	18	71.6	60.3	0.0	\$128,094,586
115	12	120.8	0.0	4.5	\$90,529,129
138	7	13.7	9.0	24.4	\$29,608,578
161	0	0.0	0.0	0.0	\$0
230	5	87.9	0.0	122.0	\$88,372,561
345	3	175.9	0.0	0.0	\$226,949,252
<b>Total</b>	<b>45</b>	<b>469.8</b>	<b>69.3</b>	<b>150.9</b>	<b>\$563,554,106</b>

**Table 7: Line Upgrade Summary for Previous 12 Months**

Voltage Class	Number of Upgrades	New	Rebuild/ Reconductor	Voltage Conversion	Estimated Cost
69	8	4.0	41.0	0.0	\$31,860,222
115	7	116.1	10.3	0.0	\$114,570,139
138	10	39.3	53.8	23.8	\$81,074,567
161	0	0.0	0.0	0.0	\$0
230	0	0.0	0.0	0.0	\$0
345	7	376.7	0.0	0.0	\$622,755,400
<b>Total</b>	<b>32</b>	<b>536.1</b>	<b>105.02</b>	<b>23.84</b>	<b>\$850,260,328</b>

**Table 8: Line Upgrade Projections for Next 12 Months**

### PROJECT STATUS SUMMARY

SPP assigns a project status to all Network Upgrades based on the projected in-service dates provided by the DTOs relative to the Need Date determined for the project. Project status definitions are provided below:

- **Complete:** Construction complete and in-service
- **Closed Out:** Construction complete and in-service; all close-out requirements fulfilled
- **On Schedule < 4:** On Schedule within 4-year horizon
- **On Schedule > 4:** On Schedule beyond 4-year horizon
- **Delayed:** Projected In-Service Date beyond Need Date; interim mitigation provided or project may change but time permits the implementation of project
- **Within NTC Commitment Window:** NTC/NTC-C issued, still within the 90-day written commitment to construct window and no commitment received
- **Within NTC-C Project Estimate Window:** Within the NTC-C Project Estimate (CPE) window
- **Within RFP Response Window:** RFP issued for the project
- **Re-evaluation:** Project active; pending re-evaluation
- **Suspended:** Project suspended; pending re-evaluation

Figure 6 reflects a summary of project status by upgrade type on a cost basis.

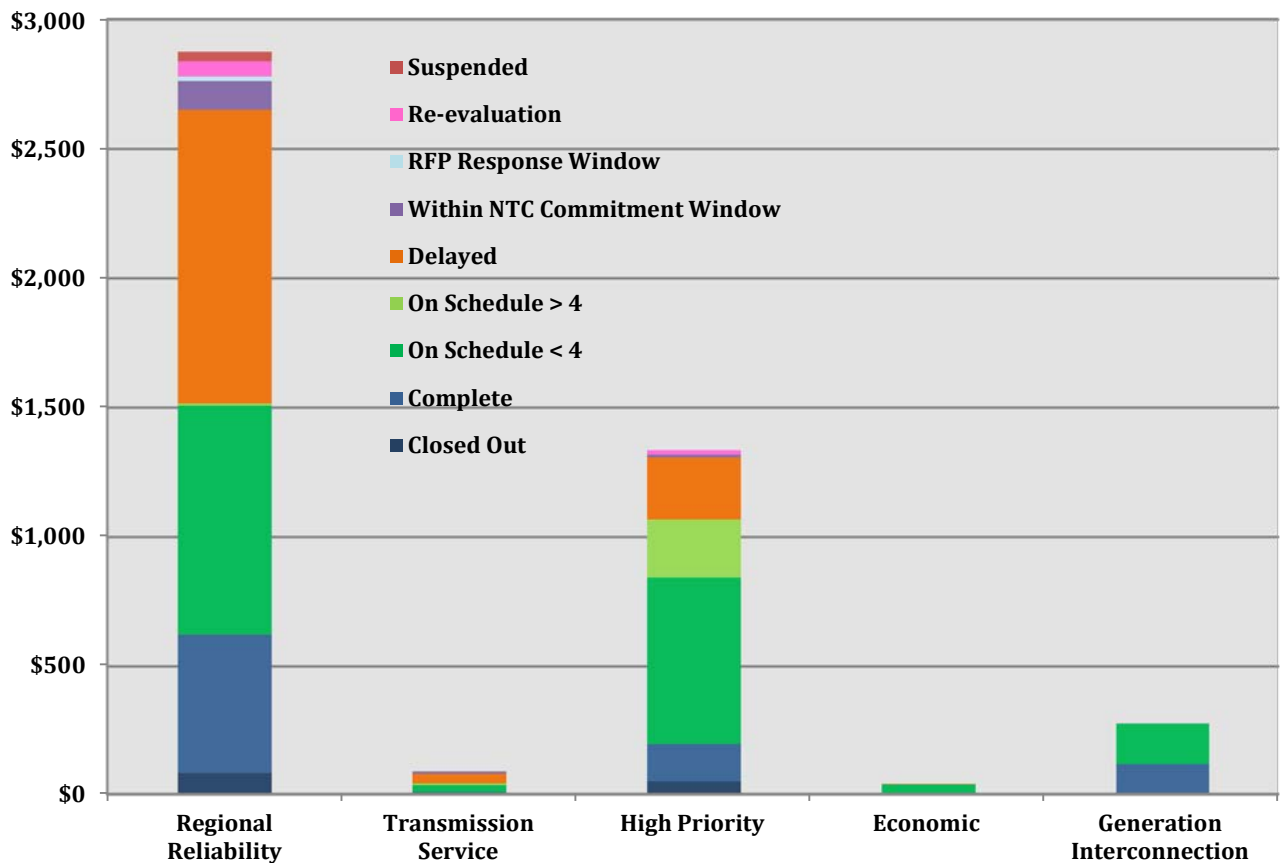


Figure 6: Project Status Summary on a Cost Basis

## BALANCED PORTFOLIO

Approved in April 2009, the Balanced Portfolio was an initiative to develop a group of economic transmission upgrades that benefit the entire SPP region, and to allocate those project costs regionally. The projects that were issued NTCs as a result of the study include a diverse group of projects, estimated to add approximately 702 miles of new 345 kV transmission line to the SPP system.

The total cost estimate for the projects making up the Balanced Portfolio did not change from the previous quarter's total of \$831.5 million.

All the projects making up the Balanced Portfolio have been completed and placed into service. A final reallocation of Revenue Requirements for deficient Zone(s) will be performed once all actual costs have been reported.

Figure 7 below depicts a historical view of the total estimated cost of the Balanced Portfolio. Table 9 provides a project summary of the projects making up the Balanced Portfolio.

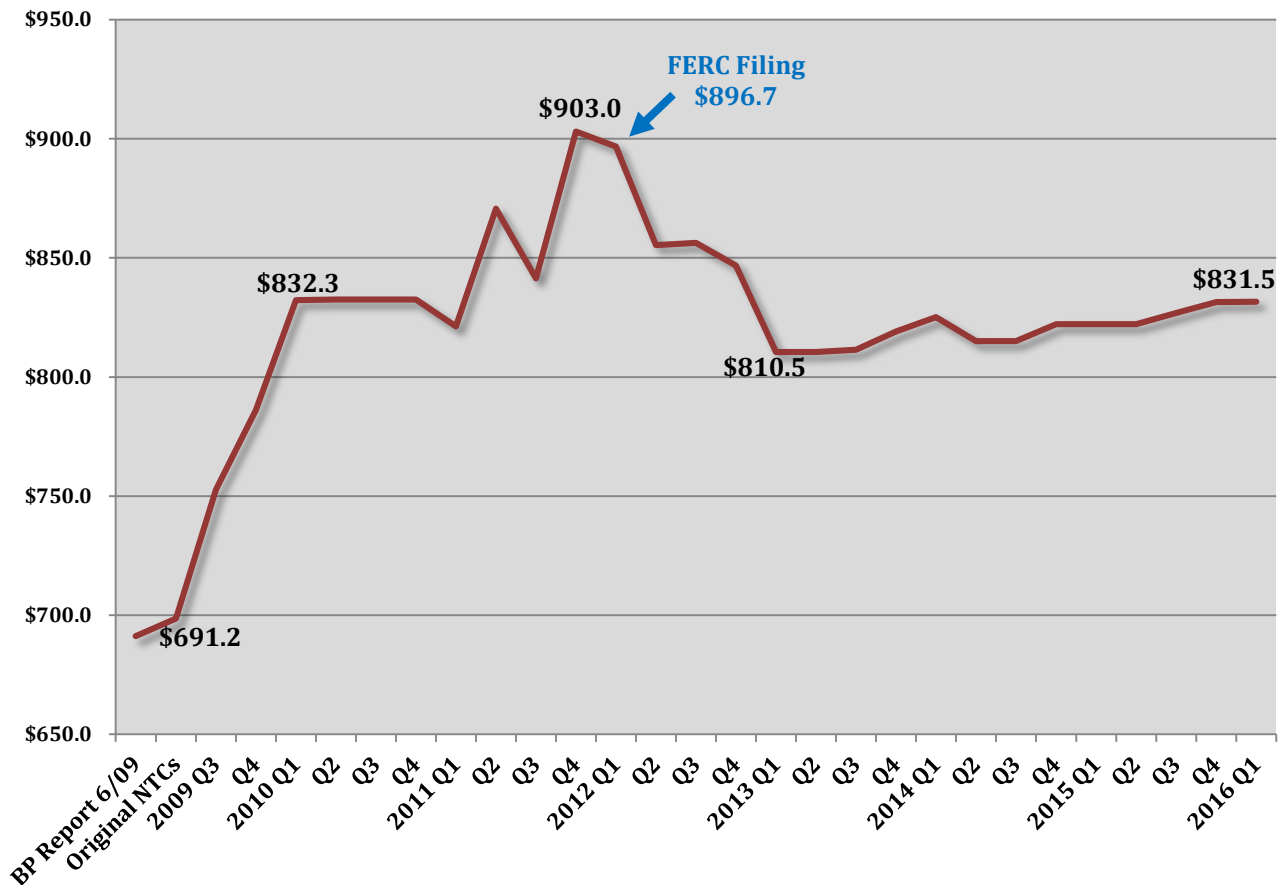


Figure 7: Balanced Portfolio Cost Estimate Trend

Project ID(s)	Project Owner(s)	Project Name	Estimated Line Length	Study Estimates	Q3 2015 Cost Estimates	Q4 2015 Cost Estimates	Variance %
705/709	WFEC/OGE	Gracemont Substation 345 kV	N/A	\$8,000,000	\$14,486,622	\$14,486,622	0.0%
707/708	ITCGP/NPPD	Spearville - Post Rock - Axtell 345 kV	226.9	\$236,557,015	\$207,495,845	\$207,495,845	0.0%
698/699	OGE/GRDA	Sooner - Cleveland 345 kV	36	\$33,530,000	\$50,262,358	\$50,262,358	0.0%
702	KCPL	Swissvale - Stilwell Tap 345 kV	N/A	\$2,000,000	\$2,875,727	\$2,875,727	0.0%
700	OGE	Seminole - Muskogee 345 kV	118	\$129,000,000	\$163,416,396	\$163,416,396	0.0%
701/704	OGE/SPS	Tuco - Woodward 345 kV	290.1	\$227,727,500	\$330,003,491	\$330,003,491	0.0%
703	GMO/KCPL	Iatan - Nashua 345 kV	30.9	\$54,444,000	\$62,949,252	\$62,949,252	0.0%
<b>Total</b>			<b>701.9</b>	<b>\$691,258,515</b>	<b>\$831,489,691</b>	<b>\$831,489,691</b>	<b>0.0%</b>

## PRIORITY PROJECTS

In April 2010 the Board and Members Committee approved for construction a group of "priority" high voltage electric transmission projects estimated to bring benefits of at least \$3.7 billion to the SPP region over 40 years. The projects issued NTCs as a result of the study are estimated to add 291 miles of new single circuit 345 kV transmission line and 435 miles of double circuit 345 kV transmission to the SPP region.

In October 2010 the Board approved an overall cost increase for the Priority Projects due to line rerouting and addition costs for reactive compensation. The total cost estimate for the Priority Projects after the variances were approved was \$1.42 billion.

The total cost estimate for the projects included in the Priority Projects report did not change from the previous quarter total of \$1.32 billion.

Figure 8 below depicts a historical view of the total estimated cost of the Priority Projects. Table 10 provides a project summary of the projects making up the Priority Projects. Table 11 lists construction status updates for the Priority Projects not yet completed.

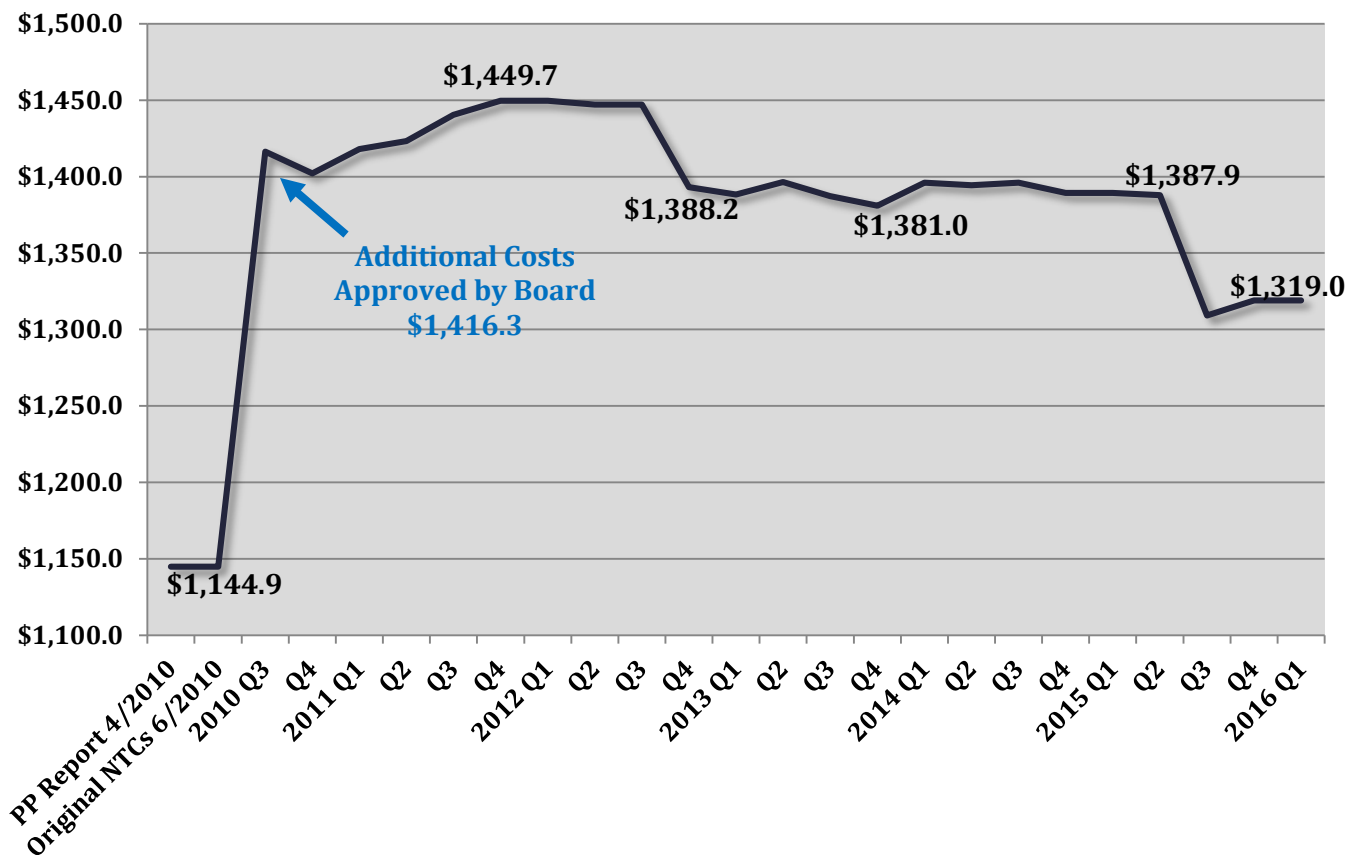


Figure 8: Priority Project Cost Estimate Trend

Project ID(s)	Project Owner(s)	Project	Est. Line Length	Board Approved Estimates (10/2010)	Q4 2015 Cost Estimates	Q1 2016 Cost Estimates	Var. %
937	AEP	Tulsa Power Station 138 kV Reactor	N/A	\$842,847	\$614,753	\$614,753	0.0%
940/941	SPS/OGE	Hitchland – Woodward District 345 kV Dbl Ckt	128.8	\$221,572,283	\$229,563,977	\$229,563,977	0.0%
942/943	PW/OGE	Thistle – Woodward District 345 kV Dbl Ckt	106.6	\$201,940,759	\$185,687,533	\$185,687,533	0.0%
945	ITCGP	Spearville – Ironwood – Clark Co. – Thistle 345 kV Dbl Ckt	122.5	\$293,235,000	\$318,138,968	\$318,138,968	0.0%
946	PW/WR	Thistle – Wichita 345 kV Dbl Ckt	77.5	\$163,488,000	\$120,525,851	\$120,525,851	0.0%
936	AEP	Valliant – NW Texarkana 345 kV	76.3	\$131,451,250	\$127,995,000	\$127,995,000	0.0%
938/939	OPPD/TSMO	Nebraska City – Mullin Creek – Sibley 345 kV	215.0	\$403,740,000	\$336,433,874	\$336,433,874	0.0%
<b>Total</b>			<b>726.7</b>	<b>\$1,416,270,139</b>	<b>\$1,318,959,956</b>	<b>\$1,318,959,956</b>	<b>0.0%</b>

**Table 9: Priority Projects Summary**

Project ID	Project Name	Projected In-Service Date	Engineering	Siting and Routing	Environmental Studies	Permits	Material Procurement	Construction	
936	Valliant – NW Texarkana 345 kV	10/1/2016	C	C	C	IP	IP	IP	C Complete
938	Nebraska City – Mullin Creek – Sibley 345 kV (TSMO)	12/31/2016	C	C	C	C	IP	IP	IP In Progress
939	Nebraska City – Mullin Creek – Sibley 345 kV (OPPD)	12/31/2016	IP	C	C	IP	IP	IP	NS Not Started
									N/A Not Applicable

**Table 10: Priority Projects Construction Status**



## 2012 ITP10

In January 2012 the Board approved the first Integrated Transmission Planning 10-Year Assessment (ITP10). The projects approved as a part of the report ranged from comprehensive regional solutions to local reliability upgrades to address the expected reliability, economic, and policy needs of the studied 10- year horizon. The approved portfolio from the 2012 ITP10 is expected to add approximately 513 circuit miles of new 345 kV transmission.

All the projects from the 2012 ITP10 are currently in the planning or construction phases. The first 2012 ITP10 project expected to complete is the new Matthewson 345 kV substation and second 345 kV circuit from Matthewson to Cimarron projected to be energized in July 2016.

Figure 9 below depicts a historical view of the total estimated cost of the 2012 ITP10 projects. Table 12 provides a summary of the projects approved as part of the 2012 ITP10.

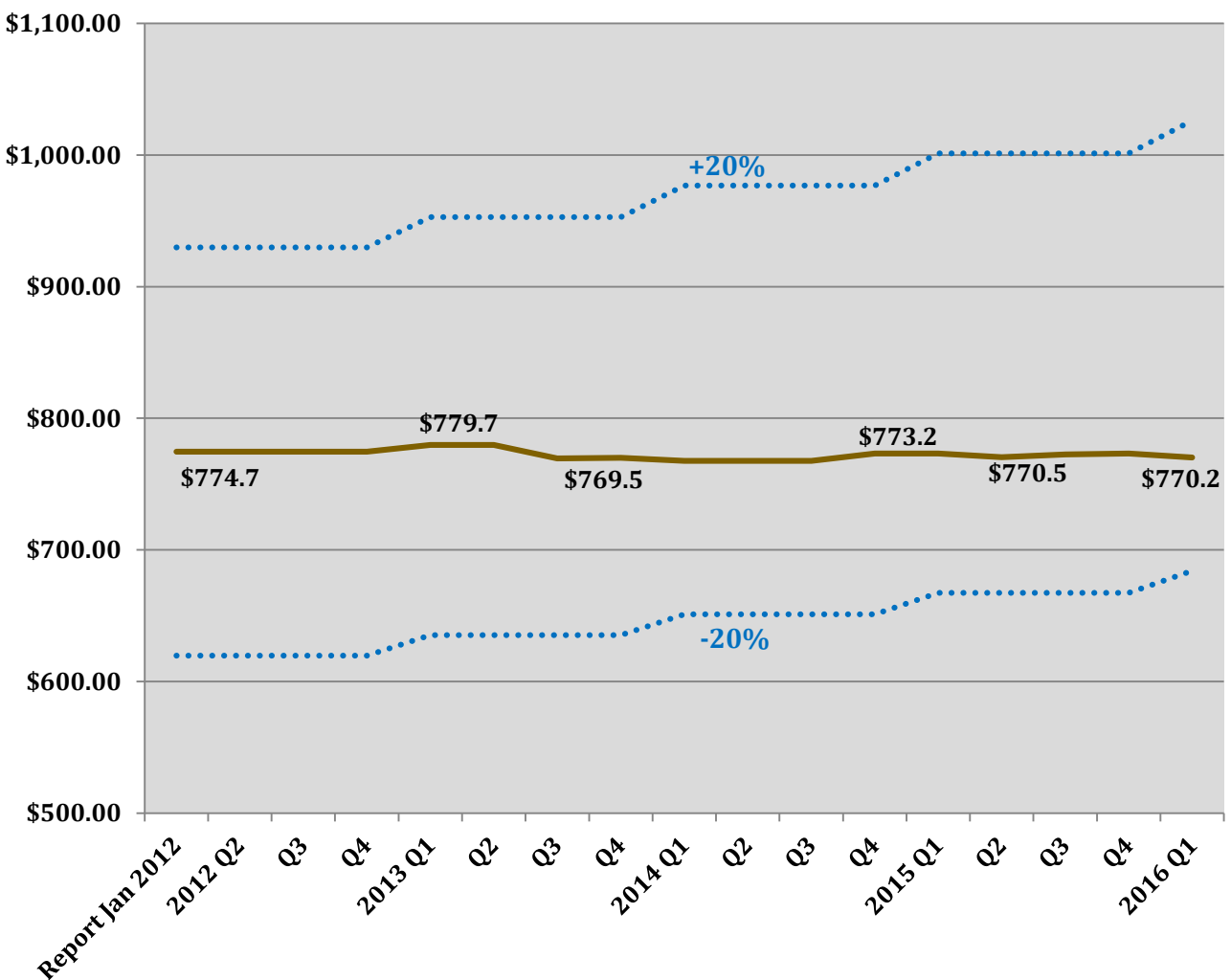


Figure 9: 2012 ITP10 Cost Estimate Trend

Project ID(s)	Project Owner(s)	Project	Est. 345 kV Line Length	Established Baseline Cost Estimates (Adj. for Inflation)	Q4 2016 Cost Estimates	Q1 2016 Cost Estimates	Var. % (Q4 vs. Q1)
30361	AEP/OGE	Chisholm - Gracemont 345 kV	101.8	\$175,481,866	\$162,952,357	\$162,952,357	0.0%
30364	OGE	Woodward District EHV - Tatonga - Matthewson - Cimarron 345 kV Ckt 2	126.0	\$191,915,155	\$178,212,300	\$178,212,300	0.0%
30367	ITCGP/WR	Elm Creek - Summit 345 kV	58.2	\$121,741,449	\$118,814,429	\$115,673,049	-2.6%
30375	NPPD	Gentleman - Cherry Co. - Holt Co. 345 kV	227.0	\$337,472,347	\$313,376,623	\$313,376,623	0.0%
<b>Total</b>			<b>513.0</b>	<b>\$826,610,817</b>	<b>\$773,355,709</b>	<b>\$770,214,329</b>	<b>-0.4%</b>

Table 11: 2012 ITP10

## OUT-OF-BANDWIDTH PROJECTS

In adherence to the Business Practice 7060, SPP reports projects that have updated cost values that exceed their established baseline values based upon a  $\pm 20\%$  bandwidth. Variances are determined by total project cost.

Two projects with a cost estimate greater than \$5 million were identified as having exceeded the  $\pm 20\%$  bandwidth requirement during the reporting period.

Table 13 provides summary information and Table 14 lists the cost detail for the out-of-bandwidth projects for Q1 2016.

PID	Project Name	Owner	NTC Source Study	Upgrade Type	In-Service Date
938/939	Multi - Nebraska City - Mullin Creek - Sibley 345 kV	OPPD/TSMO	Priority Projects	High Priority	12/31/2016
30756	Multi - Battle Axe - Road Runner 115 kV	SPS	HPILS	High Priority	12/4/2015

**Table 12: Out-of-Bandwidth Project Summary**

PID	Baseline Cost Estimate	Baseline Cost Estimate Year	Baseline Cost Estimate with Escalation	Latest Estimate or Final Cost	Variance	Variance %
938/939	\$407,764,364	2014	\$428,407,435	\$336,433,874	(\$91,973,561)	-21.47%
30756	\$16,780,809	2014	\$17,630,337	\$11,250,000	(\$6,380,337)	-36.19%

**Table 13: Out-of-Bandwidth Project Cost Detail**

## RESPONSIVENESS REPORT

Table 15 and Figures 10 and 11 provide insight into the responsiveness of DTOs constructing Network Upgrades within SPP in the Quarterly Project Tracking Report for Q1 2016. **Note: Network Upgrades with statuses of “NTC Suspension”, “Re-evaluation”, “Within NTC Commitment Window”, “Within NTC-C Project Estimate Window”, and “Within RFP Response Window” were excluded from this analysis.**

Project Owner	Number of Upgrades	Number of Upgrades Reviewed	Reviewed %	Number of ISD Changes	ISD Change %	Number of Cost Changes	Cost Change %
AEP	53	9	17%	4	7.5%	9	17.0%
BEPC	14	11	79%	11	78.6%	5	35.7%
GMO	3	3	100%	0	0.0%	2	66.7%
GRDA	12	2	17%	0	0.0%	0	0.0%
ITCGP	9	7	78%	0	0.0%	4	44.4%
KCPL	6	4	67%	0	0.0%	0	0.0%
LES	2	2	100%	0	0.0%	0	0.0%
MIDW	13	0	0%	0	0.0%	0	0.0%
MKEC	18	9	50%	5	27.8%	8	44.4%
NPPD	26	17	65%	7	26.9%	8	30.8%
OGE	55	28	51%	13	23.6%	13	23.6%
OPPD	13	3	23%	0	0.0%	0	0.0%
PW	2	2	100%	0	0.0%	0	0.0%
SPS	132	132	100%	22	16.7%	17	12.9%
TSMO	5	3	60%	0	0.0%	0	0.0%
WFEC	38	9	24%	0	0.0%	9	23.7%
WR	43	39	91%	9	20.9%	9	20.9%
<b>Total</b>	<b>453</b>	<b>285</b>	<b>63%</b>	<b>74</b>	<b>16.3%</b>	<b>84</b>	<b>18.5%</b>

**Table 14: Responsiveness Summary by Project Owner**

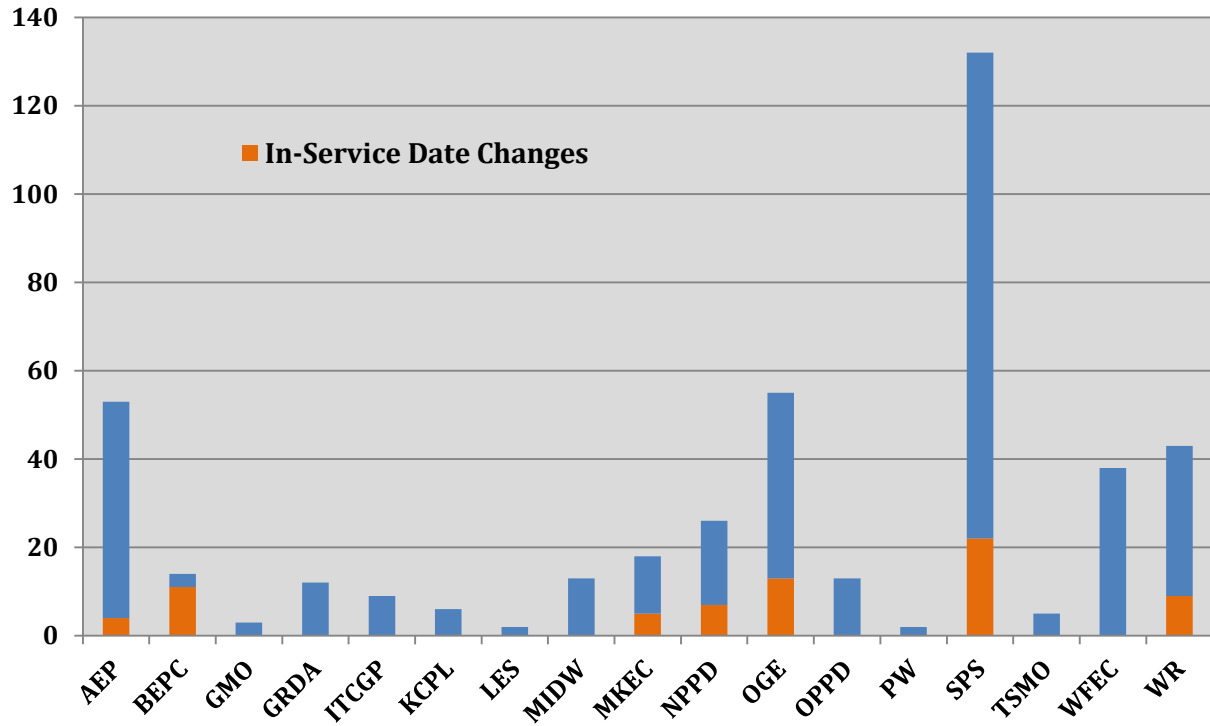


Figure 10: In-Service Date Changes by Project Owner

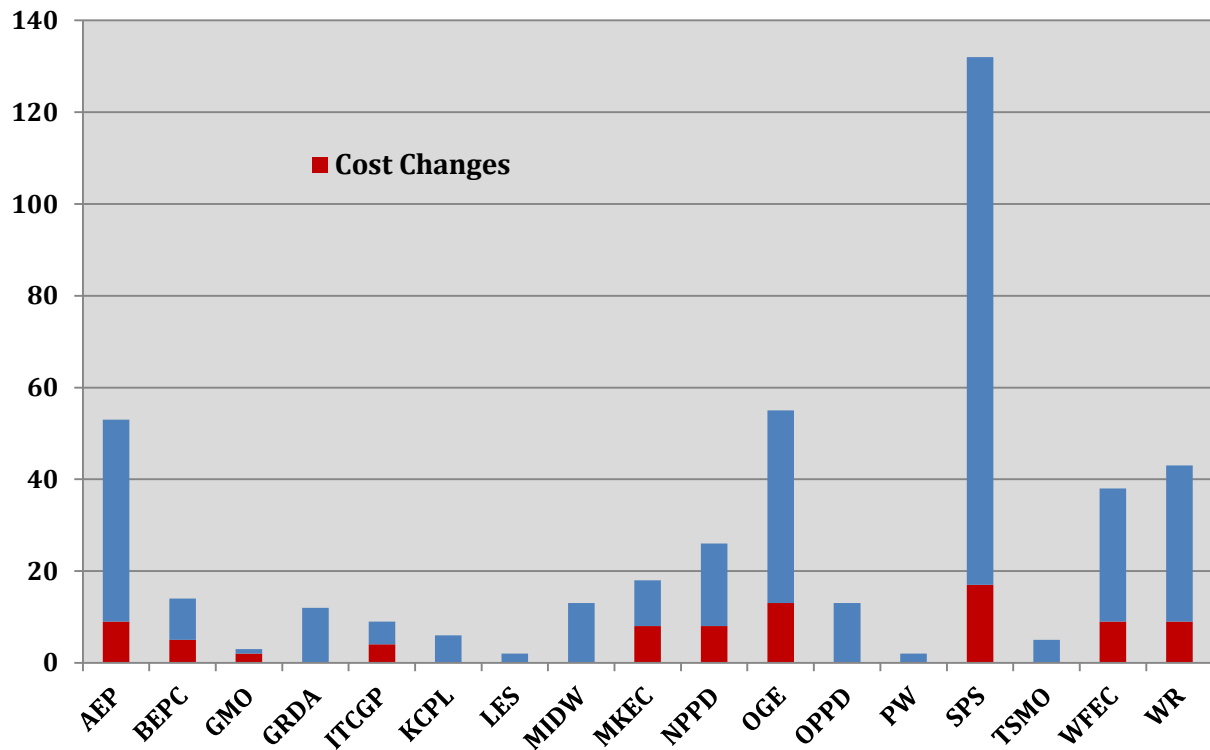


Figure 11: Cost Changes by Project Owner

## APPENDIX 1

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*{See accompanying list of active Applicable Projects}*