

SOAH DOCKET NO. 473-19-6677
DOCKET NO. 49831

APPLICATION OF SOUTHWESTERN § BEFORE THE STATE OFFICE
PUBLIC SERVICE COMPANY FOR § OF
AUTHORITY TO CHANGE RATES § ADMINISTRATIVE HEARINGS

AFFIDAVIT

STATE OF TEXAS)
)
COUNTY OF POTTER)

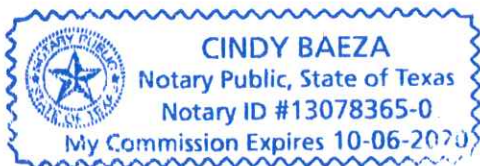
JARRED J. COOLEY, first being sworn on his oath, states:

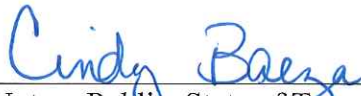
I am the witness sponsoring Attachment JJC-RR-U3, which presents actual information to replace estimates included in SPS's August 8, 2019 filing for the period April 1, 2019 through June 30, 2019, referred to as the "Update Period." Attachment JJC-RR-U3 updates information originally presented in my Attachment JJC-RR-3 regarding Transmission Capital Additions for the Update Period.

I have reviewed and am familiar with the updated material I sponsor. Based upon my personal knowledge, and in my judgment and based upon my professional experience, the updated material that I sponsor is valid and accurate, and should be incorporated into my direct testimony. JJC-RR-U3 includes project descriptions for all groups of projects included in the attachment. The discussions in my direct testimony about the reasonableness, necessity, and prudence of the costs presented in my originally filed Attachment JJC-RR-3 also apply to the costs in my Attachment JJC-RR-U3. Accordingly, for the reasons provided in my direct testimony, the actual costs presented in my Attachment JJC-RR-U3 are reasonable, necessary, and prudently incurred.


JARRED J. COOLEY

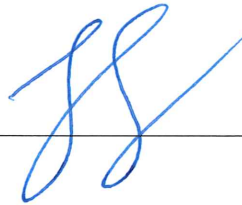
Subscribed and sworn to before me this 30 day of September 2019 by
JARRED J. COOLEY.




Notary Public, State of Texas
My Commission Expires: 10-06-2020

CERTIFICATE OF SERVICE

I certify that on the 20th day of September 2019, a true and correct copy of the foregoing update testimony was served on all parties of record by electronic service and by either hand delivery, Federal Express, regular first class mail, certified mail, or facsimile transmission.

A handwritten signature in blue ink, consisting of stylized, overlapping loops, is positioned above a horizontal line.

Southwestern Public Service Company

Actual Capital Additions
April through June 2019
Transmission

(A) Line No.	(B) Asset Class	(C) Witness	(D) Project Category	(E-i) Additions to Plant-in-Service (April 2019-June 2019)	(E-i) XES Charges (Included in Column D)	(E-ii) Other Affiliate Charges (Included in Column D)	(E-iii) Total Affiliate Charges (Included in Column D)	(F) WBS Level 1 Project Group Name and Description
1	Electric Transmission	Cooley	SR	\$ 9,195.91	\$ 250.51	\$ -	250.51	345 115KV 448MVA Xfmr spare Sub - This project purchased a spare 345/115-kV, 448 MVA transformer to provide a reserve unit in the event of a failure of one of the numerous similar transformers in service in the SPS service area.
2	Electric Transmission	Cooley	OT	257,760.53	-	-	-	Agreement Lighthouse Bill of Sale - This project installed a single transmission line switch on line Y-96 to provide an isolation point between SPS and Lighthouse Electric Cooperative's South Plains Substation per an agreement with Lighthouse Electric as a condition for SPS to purchase a 69-kV line segment from Lighthouse Electric.
3	Electric Transmission	Cooley	RE	575,067.62	4,072.41	-	4,072.41	Amarillo West Upgrade - This project provided for various new infrastructure projects to address reliability and city expansion in the Amarillo area.
4	Electric Transmission	Cooley	RE	10,830.60	-	-	-	Artesia Country Club 115KV conversion - This project tapped the W92 line and built approximately three miles of new 115-kV line to the Artesia Country Club Substation. It also converted two SPS distribution substations from 69-kV to 115-kV operation. SPP issued SPS an NTC for this project.
5	Electric Transmission	Cooley	RE	19,443.39	-	-	-	Artesia South 115 Conversion - This project completed the preliminary engineering and right of way activities to convert South Artesia Rural Substation from 69-kV to 115-kV operation. This upgrade was needed to reduce the 69-kV loading on the 115/69-kV transformer at Artesia Interchange so that this transformer would have adequate capacity during contingency situations.
6	Electric Transmission	Cooley	RE	41,458.75	472.93	-	472.93	Atoka-Eagle Creek - This project constructed a 115-kV transmission line between the Atoka and Eagle Creek Substations near Artesia, New Mexico. The project is needed to address low voltages in the area. SPP issued SPS an NTC for this project.
7	Electric Transmission	Cooley	RE	(10,062.84)	-	-	-	Bailey City-New Amherst-Lamb City - This project completed surveying and route selection activities, completed an environmental assessment of the proposed routes, and prepared and submitted a Certificate of Convenience and Necessity to the PUCT for a new 115-kV line between the Bailey County Substation, the New Amherst Substation, and the Lamb County Substation and the associated substation work. This project was needed to address identified reliability problems and SPP issued SPS an NTC for this project.

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WBS Level 1 Project Group Name and Description

Bowers-Howard 115kv - This project connected the Bowers Substation to the Howard Substation via a 115-kV transmission line and installed a second 115/69-kV transformer at the Bowers Substation. The need for the project was based on studies of Golden Spread Electric Cooperative's request for Greenbelt Electric Cooperative's load increase in the eastern Texas panhandle area. This project was identified by SPP in the Delivery Point Network Study. SPP issued SPS an NTC for this project.

Cardinal Teague Recond 115kv Line - This project installed taller transmission line structures where identified to provide the necessary ground clearance to allow the existing conductors to be loaded to their full ampereage ratings. SPP issued SPS an NTC for this project.

Cargill 14.4 Mvar Cap Bank - This project installed a 14.4 MVar capacitor bank on the 115-kV bus at Cargill Substation. The new capacitor bank will provide voltage support in the south central part of the Texas panhandle and the eastern part of New Mexico. SPP issued SPS an NTC for this project.

Carlisle to Wolforth - This project constructed a new 230-kV line between the Carlisle and Wolforth substations and substation line terminals to accommodate the new transmission line. This project was needed for reliability and load growth in the surrounding area. SPP issued SPS an NTC for the project.

Chevron South Eddy Fields Load Addition - This project installed a three-way 115-kV switch on transmission line W-87 west of China Draw substation to provide a new 115-kV service point for a new substation owned by Chevron.

Cochran Co - Whiteface 115kv - This project reconditured the 4.4 mile segment of the 69-kV transmission line from Cochran County Substation to structure number 55 at Whiteface Tap. SPP issued SPS an NTC for this project.

Cochran Plains Line Ratings - This project increased the line and substation terminal ratings of the 115-kV lines U-19 and U-20 between Cochran Co. Interchange and Lea County Plains Switching Station. This project was needed to provide the capacity to accommodate the new 350 MW Wildcat Ranch wind farm generation connected at Lost Draw Switching Station.

Curry Co. Dist. Ximr Conversion - This project replaced the existing 69/23-kV distribution transformer with a 115/23-kV distribution transformer. This conversion from 69-kV to 115-kV was needed to prevent the overloading of the 115/69-kV transformers located at Curry Co. Interchange. SPP issued SPS an NTC for this project.

(11,265.42)

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13,500.94

-

-

10,628.91

6,952.06

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6,952.06

(9,891.99)

303.04

-

303.04

344,326.90

1,199.30

-

1,199.30

55,860.66

679.79

-

679.79

408,661.35

3,866.37

-

3,866.37

24,488.07

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-

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Southwestern Public Service Company

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April through June 2019
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16	Electric Transmission	Cooley	RE	8,545.58	-	-	-	Custer Mountain-Ochoa Reconnector - This project rebuilt 11 miles of 115-kV line between Custer Mountain and Ochoa substations. SPP issued SPS an NTC for this project. CVA Mitigation - This project replaced various pieces of equipment that were identified by the Common Vulnerability Assessment (CVA) program. The CVA program identifies specific pieces of equipment that have a history of failing across all of the Xcel Energy transmission systems and works to proactively replace the remaining pieces of equipment still in service before they fail. DCP - White Deer Sub - This project installed a tap line on V-29 and installed a new distribution substation called White Deer. The new substation was needed to serve increasing distribution loads in the area. Deaf Smith 230kV Breaker Add - This project created a ring bus on the 230-kV side of the Deaf Smith Substation to address reliability compliance requirements under current NERC standards. Denver City In-Line 115 kV Bkr - This project installed breaker failure relays on all 115-kV breakers at Denver City Interchange. Diamondback Lyntegar Terminal - This project connected a new line built by Lyntegar Rural Electric Cooperative to the new Diamondback Substation for service to their customers in the southeast part of the SPS transmission system. Eddy Co Breakers - This project redesigned the 230-kV bus at Eddy County Interchange and installed two in-line breakers. This project addressed the reliability compliance issues at the Eddy County Interchange per current NERC Transmission Planning standards. Eddy County Dbl Bus Dbl Brkr 230kV - This project reconfigured the existing Eddy County Interchange 230-kV bus from a main and transfer bus design to a double bus-double breaker arrangement. This project was required to meet long-term firm transmission service requests in the SPP Aggregate Facility Study SPP-2013-AC3-AFS-6. SPP issued SPS an NTC for this project. ELR - Breakers - SPS - The term "ELR" stands for End of Life Replacement. This project replaced circuit breakers that had reached the end of their useful life. This work was done at multiple substations as part of a multi-year program to replace breakers that are obsolete, for which parts are no longer available and require significant operations and maintenance spend to keep them in service. ELR - Relay - SPS - The term "ELR" stands for End of Life Replacement. This project replaced protective relays that had reached the end of their useful life.
17	Electric Transmission	Cooley	SR	330.11	-	-	-	
18	Electric Transmission	Cooley	LI	52,745.74	2,025.18	-	2,025.18	
19	Electric Transmission	Cooley	RE	9,404.79	945.00	-	945.00	
20	Electric Transmission	Cooley	RE	20,222.25	38.00	-	38.00	
21	Electric Transmission	Cooley	LI	51,959.33	7,889.58	-	7,889.58	
22	Electric Transmission	Cooley	RE	(232.11)	-	-	-	
23	Electric Transmission	Cooley	RE	343,171.50	1,864.01	-	1,864.01	
24	Electric Transmission	Cooley	SR	342,994.78	1,370.49	-	1,370.49	
25	Electric Transmission	Cooley	SR	1,781,787.17	10,364.18	-	10,364.18	

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26	Electric Transmission	Cooley	SR	11,663.97	-	-	-	Facility Upgrade Ancillary Equip - This project provided for the replacement of failing switches, jumpers and other ancillary equipment. GEN 2010-14 Novus Wind IV, 358.8 MW - This project added a 345-kV terminal to the 345-kV bus at Hitchland Interchange to provide an interconnection point for the Novus Wind IV wind farm transmission line.
27	Electric Transmission	Cooley	GI	7,197.19	-	-	-	The wind farm has a net capacity of 358.8 MW.
28	Electric Transmission	Cooley	GI	4,559.37	-	-	-	GEN 2011-022 (Firewheel) - This project constructed a new 345-kV terminal at Hitchland Interchange to provide an interconnection point for a new wind farm.
29	Electric Transmission	Cooley	GI	5,318.32	992.15	-	992.15	GEN 2012-020 Hale Co Wind, 478MW - This project constructed a new 230-kV terminal at TUCO Interchange for the interconnection of the Hale County wind farm.
30	Electric Transmission	Cooley	GI	34,582.69	18.09	-	18.09	GEN 2013 027 Blue Cloud Wind - This project constructed the new 230-kV Needmore Switching Station to accommodate the new wind generation from Blue Cloud Wind.
31	Electric Transmission	Cooley	GI	229,179.53	1,991.83	-	1,991.83	Gen Upgrade Tolk X Reconnector - This project upgraded the two 230-kV lines K-27 and K-45 and the associated line terminals at Tolk Substation and Plant X Substation. These upgrades were shared network upgrade projects identified in SPP's DISIS 2014-002 study to accommodate new generation being added.
32	Electric Transmission	Cooley	GI	15,457.87	110.06	-	110.06	GEN-2011-025 Fiber Wind - This project provided a 115-kV interconnection for Fiber Wind LLC's 80 MW wind energy facility located in Crosby County, Texas.
33	Electric Transmission	Cooley	GI	195,450.14	6,307.83	-	6,307.83	GEN-2015-014 Lost Draw Substation - This project constructed the new Lost Draw Switching Station to provide a 115-kV interconnection point for the Wildcat Ranch wind farm.
34	Electric Transmission	Cooley	LI	1,347,103.04	41,256.82	-	41,256.82	Hillside - 2nd DCP 28MVA XFMR - This project reconfigured the 115-kV bus from a radial tap to an in-and-out arrangement and provided the 115 kV equipment to add a second 115/13.2-kV 28 MVA distribution transformer. This work was needed to provide additional capacity to serve new distribution loads in the southwest Amarillo area.
35	Electric Transmission	Cooley	RE	11,879,650.29	110,303.43	-	110,303.43	Ink Basin Substation - This project constructed a new 230/115-kV, three breaker ring bus interchange in the south-central part of Yoakum County, Texas. Existing transmission circuits 115-kV V80 and 230-kV K93 were routed in to and out of the new interchange. A new 230/115-kV, 250 MVA, transformer provides a new source of power for the 115-kV. SPP issued SPS an NTC for this project.
36	Electric Transmission	Cooley	LI	73,597.37	1,974.63	-	1,974.63	Interconnection Kemp GSEC RBEC - This project installed three new 115-kV switches on SPS's transmission line T-47 to provide 115-kV service to Rita Blanca Electric Cooperative's new Kemp delivery point.

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37	Electric Transmission	Cooley	LI	(23.25)	-	-	-	Interconnection Lucid RR Plant - This project constructed a new 115-kV terminal at North Loving Substation to provide an interconnection point for a new customer-owned line to serve their 40 MW load.
38	Electric Transmission	Cooley	LI	7,775.06	4,098.01	-	4,098.01	Interconnection Matador - This project provided a 115-kV service point to the Matador natural gas processing plant located near Loving, New Mexico.
39	Electric Transmission	Cooley	LI	7,547,860.82	27,338.70	-	27,338.70	Interconnection Milwaukee - This project installed the new SPS Quincy Switching Station to provide 115-kV service to South Plains Electric Cooperative to serve new load from their new Milwaukee Substation.
40	Electric Transmission	Cooley	OT	7,773.59	-	-	-	Interconnection WIPP - This project reconfigured the 115-kV lines coming into the WIPP Substation serving the Waste Isolation Pilot Project (WIPP) facility located east of Carlsbad, New Mexico. The customer paid to reconfigure these lines to allow for an expansion of the WIPP facility.
41	Electric Transmission	Cooley	LI	(691.61)	-	-	-	Interconnection XTO DI#9 - This project installed a one-way switch to provide a 115-kV service point to XTO Energy located east of Loving, New Mexico.
42	Electric Transmission	Cooley	LI	(138,554.44)	574.58	-	574.58	Interconnection XTO Mahoney - This project installed the new Mahoney Switching Station to provide a new 230-kV service point to XTO.
43	Electric Transmission	Cooley	LI	755,380.49	5,870.80	-	5,870.80	Interconnection XTO Poker Cowboy Phase 1 - This project installed two new 115-kV switches on SPS's transmission line W-39 to provide 115-kV service to XTO to serve their new loads in the area.
44	Electric Transmission	Cooley	LI	472.31	18.99	-	18.99	Interconnection XTO Robertson - This project installed a one-way switch to provide a 69-kV service point to XTO Energy located southwest of Seminole, Texas.
45	Electric Transmission	Cooley	RE	963,935.83	25,358.09	-	25,358.09	K32 Terminal Upgrades Potter & Harrington - This project replaced the line terminal equipment for 230-kV line K-32 at Harrington Station and Potter County Interchange. This work was needed to comply with an NTC from SPP requiring a minimum summer emergency rating of 547 MVA for the line and terminals. SPP issued SPS an NTC for this project.
46	Electric Transmission	Cooley	RE	924.56	-	-	-	Lea Co Plains Sw Cap Bank - This project installed a 14.4 MVAr capacitor bank. SPP issued SPS an NTC for this project.

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47	Electric Transmission	SR	1,999,407.91	1,898.30	-	1,898.30	Line ELR SPS - The term "ELR" stands for End of Life Replacement. This project provided for improvement work on transmission lines to address high priority capital defects, such as defective wood poles and cross arms, that were discovered through line inspections. Work in the ELR group included emergent work, planned usually 12 to 18 months in advance of the work being performed. Typically this work replaced capital property units on a like-for-like basis and returned the transmission line to overall good health.
48	Electric Transmission	SR	27,480.68	911.72	-	911.72	LPL Relay Upgrades - This project upgraded the line protection relays, breaker controls and communication architecture at SPS's Lubbock East and Lubbock South Interchanges on the terminals providing 230-kV service to Lubbock Power and Light (LP&L).
49	Electric Transmission	RE	115,973.13	227.90	-	227.90	Lubbock S.-Allen Terminal Upgrades - This project rebuilt the 6-mile, 115-kV line from Lubbock South Interchange to Allen Substation. The SPP NTC required a minimum summer emergency rating of 174 MVA for this line and terminals. SPP issued SPS an NTC for this project.
50	Electric Transmission	RE	2,142,863.78	2,702.76	-	2,702.76	Lynn Co. 115/69 Xfmr #1 Upgrade - This project replaced the 40 MVA, 115/69-kV transformer at Lynn County substation with a 84 MVA unit. This project was needed to address the overload of the Lynn County Interchange 115/69-kV circuit 1 transformer for the loss of Lynn County Interchange 115/69-kV circuit 2 transformer. SPP issued SPS an NTC for this project.
51	Electric Transmission	RE	16,074,569.75	17,713.76	-	17,713.76	Mustang-Shell CO2 115kV Line - This project constructed a new 115-kV transmission line between the Mustang and Shell CO2 substations. The project was needed to address overloads in the area. SPP issued SPS an NTC for this project.
52	Electric Transmission	RE	103,672.85	172.56	-	172.56	NE Hereford to New Center St. 115 kV Line - This project constructed a new 115-kV line from Northeast Hereford Interchange to a new distribution substation named New Center St. (La Plata) to allow the 69-kV substation to be removed from the 69-kV Hereford Loop. This allowed the Hereford Interchange and the Northeast Hereford Interchange 115/69-kV transformers to stay under their ratings. This project was needed for system reliability. SPP issued SPS an NTC for this project.
53	Electric Transmission	SR	2,138.46	-	-	-	Needmore UPLC Upgrades - This project replaced the Under frequency Protective Line Carrier (UPLC) systems at Needmore, Yoakum, and Tolk substations to the current standard for this relay communication system.

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54	Electric Transmission	RE	125,167.94	603.85	-	603.85	NEF Targa Reconductor - This project re-conducted the 6.6-mile, 115-kV transmission circuit running from NEF Substation to the Targa Substation tap. This project was needed to eliminate the overloading of this segment during certain system conditions. SPP issued SPS an NTC for this project.
55	Electric Transmission	RE	505,097.94	7,266.21	-	7,266.21	NERC TPL Relay Improvements - This project installed and replaced relays to comply with the North American Electric Reliability Corporation (NERC) Transmission Planning (TPL) standards at a number of identified substations.
56	Electric Transmission	RE	1.00	-	-	-	OPIE 2 China Draw-Wood Draw 115kV_PID 30825 - This project constructed a 115-kV line between China Draw and Wood Draw to loop the 115-kV transmission system. This line is south of Carlsbad, New Mexico. This project was needed for system reliability and SPP issued SPS an NTC for this project.
57	Electric Transmission	RE	3,629,459.55	17,123.74	-	17,123.74	OPIE 2 China Draw-Yeso Hills 115kV_PID 30675 - This project constructed a radial 115-kV line from China Draw sub to the new Yeso Hills substation east of China Draw for service to developing loads. The Yeso Hills substation is southwest of Carlsbad, NM. This project was needed for to provide increased reliability in the area.
58	Electric Transmission	RE	33,273.54	3,218.41	-	3,218.41	OPIE 2 Kiowa-Eddy Co 345kV - This project provided for the permit and easement acquisition for an anticipated 30 mile 345-kV line from Eddy County Substation to the Kiowa Substation.
59	Electric Transmission	RE	23,906.38	512.33	-	512.33	OPIE 2 Kiowa-Road Runner 345kV Conv_PID 30639 - This project replaced the existing 230/115-kV transformer at Roadrunner Substation with a new 345/115-kV transformer, converted the Kiowa to Roadrunner line from 230-kV to 345-kV operation, and constructed a new 345/115-kV double circuit transmission line between the Kiowa and Potash Junction substations. The project was needed for reliability reasons and SPP issued SPS an NTC for the project.
60	Electric Transmission	RE	174.39	113.95	-	113.95	OPIE 2 Livingston Ridge-Cardinal 115kV_PID 30695 - This project replaced the existing 69-kV Livingston Ridge Substation with a new 115-kV Livingston Ridge Substation near Carlsbad, New Mexico, constructed the new 115-kV Sage Brush Substation near Hobbs, New Mexico, and constructed the new Cardinal Substation near Hobbs, New Mexico, and constructed a new 115-kV transmission line between the Livingston Ridge, Sage Brush, and Cardinal Substations. The project was identified by SPP in the High Priority Incremental Load Study ("HPILS"). SPP issued SPS an NTC for this project.

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61	Electric Transmission	Cooley	RE	90,742.86	1,406.93	-	1,406.93	OPIE 3 Kiowa-China Draw 345kV_PID 30638 - This project installed new 345/115-kV transformers at North Loving and China Draw substations. It also constructed a new 345-kV transmission line from Kiowa to North Loving to China Draw substation. The project was needed for reliability and SPP issued SPS an NTC for this project.
62	Electric Transmission	Cooley	RE	(36,115.30)	372.37	-	372.37	OPIE Hobbs-Kiowa 345kV_PID 30637 - This project installed new 345/115-kV transformers at the Hobbs Generating Plant and Kiowa interchanges. It also constructed a new 345-kV transmission line between Hobbs Generating Plant and Kiowa substations. The project was needed for reliability and SPP issued SPS an NTC for this project.
63	Electric Transmission	Cooley	RE	25,930.03	607.31	-	607.31	OPIE Monument-Byrd Reconnector - This project rebuilt four miles of 115-kV line between Monument and Byrd substations. SPP issued SPS an NTC for this project.
64	Electric Transmission	Cooley	RE	21,399.97	1,146.42	-	1,146.42	OPIE N Loving-S Loving 115kV - This project constructed approximately 3 miles of 115-kV transmission line from North Loving Substation to South Loving Substation and converted South Loving substation from 69-kV to 115-kV operation. This upgrade was needed to reduce the 69-kV loading on the 115/69-kV transformers at Carlsbad Plant Interchange.
65	Electric Transmission	Cooley	RE	218,902.41	5,915.20	-	5,915.20	OPIE Potash-Livingston Ridge Recond - This project rebuilt 13.5 miles of 115-kV line between Potash Junction and Livingston Ridge substations. SPP issued SPS an NTC for this project.
66	Electric Transmission	Cooley	RE	3,555.12	-	-	-	OPIE Reconnector_PCA-Qualhada - This project wrecked out and rebuilt the 115-kV line between the PCA and Qualhada substations near Carlsbad, New Mexico. This project was needed to address overloads in the area. SPP issued SPS an NTC for this project.
67	Electric Transmission	Cooley	RE	(1,308.86)	36.67	-	36.67	OPIE Roadrunner to Agave Ochoa 115 Lines - This project constructed a new 115-kV line from Roadrunner substation to Agave #2 (customer-owned substation). SPP issued SPS an NTC for this project.

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							OPIE TUCO-Hobbs 345kV_PID 30376 - This project constructed a single-circuit 345-kV transmission line between the TUCO Substation, near Lubbock, Texas, the Yoakum Substation in Texas, and the Hobbs Generating Substation near Hobbs, New Mexico. The project was evaluated and identified in the 2013 SPP High Priority Incremental Load Study ("HPILS") as needed for reliability to alleviate loading violations on the underlying network and voltage violations due to insufficient power supply to network load additions. In addition to its reliability benefits, the project was also identified by SPP as providing significant economic benefits. In 2016, SPP issued its Integrated Transmission Planning Near-Term study which identified the TUCO to Yoakum portion of the project as needed as soon as 2017 to mitigate voltage issues in that area. SPP issued SPS NTCs for this project.
68	Electric Transmission	Cooley	RE	86,468,358.24	79,958.44	-	79,958.44
							Osage Re-termination Project - This project upgraded the 115-kV bus at the Randall County Substation. The project was needed to address overloads at the Osage Substation. SPP issued SPS an NTC for the project.
69	Electric Transmission	Cooley	RE	3,192.29	-	-	-
							Oxy Levelland Amoco Sub UFR - This project installed under frequency relays at the Levelland Amoco Substation to meet compliance requirements.
70	Electric Transmission	Cooley	RE	9,800.75	-	-	-
							PCA-Carlsbad V-61 Wavetrup Upg - This project upgraded the 115-kV line V-61 terminals at PCA Interchange and Carlsbad Interchange, which were limiting the capacity of this line to a summer emergency rating of 80 MVA. The terminals were upgraded to meet the NERC compliance and SPP planning criteria requirement of a summer emergency rating of 160 MVA.
71	Electric Transmission	Cooley	RE	79.27	75.05	-	75.05
							Physical Security - This project installed Physical Security Upgrades affecting SPS substation protection with specific work varying by substation location, current layout, and threat history. Typical security measures included the installation of equipment such as cameras and motion sensors at substations.
72	Electric Transmission	Cooley	OT	422,935.09	10,541.99	-	10,541.99
							Plainview City Sub Removal - This project removed the 69-kV bus and associated equipment at Plainview City Substation and removed the 69-kV transmission line Z-84 that connected Kiser Substation to Plainview City Substation. The Kiser Substation replaced the Plainview City Substation. SPP issued SPS an NTC for this project.
73	Electric Transmission	Cooley	RE	166.36	-	-	-
							Portales 115 kV Loop - This project constructed a 115-kV loop around the City of Portales, New Mexico and converted the South Portales and Market Street substations to 115-kV to provide additional load serving capability and eliminate the overloads of the 115/69-kV transformers at Portales Interchange. SPP issued SPS an NTC for this project.
74	Electric Transmission	Cooley	RE	169,519.79	194.58	-	194.58

Southwestern Public Service Company

Actual Capital Additions
April through June 2019
Transmission

(A) Line No.	(B) Asset Class	(C) Project Category	(D) Additions to Plant-in-Service (April 2019-June 2019)	(E-i) XES Charges (Included in Column D)	(E-ii) Other Affiliate Charges (Included in Column D)	(E-iii) Total Affiliate Charges (Included in Column D)	(F) WBS Level 1 Project Group Name and Description
75	Electric Transmission	LI	(325,366.23)	7,060.21	-	7,060.21	RB - Purnell Sub - This project installed a new 115-kV terminal at SPS's XIT Substation to provide 115-kV service to Rita Blanca Electric Cooperative to serve new load from its new Wolves Substation.
76	Electric Transmission	RE	4,293.35	19.14	-	19.14	Roosevelt City 230 Brkr 1/2 - This project re-configured the Roosevelt County Substation 230-kV bus to a double-bus, double breaker configuration to accommodate the addition of the Pleasant Hill 230-kV line terminal. The upgraded configuration improves reliability and mitigates long-term outages in the event of a breaker that fails to open.
77	Electric Transmission	RE	61,014.89	-	-	-	Roswell Loop - This project constructed a new 115-kV line between the Chaves County, Price and Capitan substations along with the conversion of the Price 69-kV substation to 115-kV. This project is on the north side of Roswell, New Mexico. SPP issued SPS an NTC for this project.
78	Electric Transmission	SR	4,898,308.97	8,442.67	-	8,442.67	S&E - SPS Line - These projects provided for the storm and emergency work orders for the replacement or capital repair of transmission line facilities damaged by inclement weather or natural disasters.
79	Electric Transmission	SR	149,506.02	187.15	-	187.15	S&E - SPS Sub - These projects provided for the storm and emergency work orders that repaired substation facilities damaged by inclement weather and natural disasters.
80	Electric Transmission	RE	2,265,441.00	2,192.90	-	2,192.90	seminole intg 230/115KV xfmr #1 & #2 upgrades - This project replaced the two 230/115-kV transformers at Seminole Interchange with two 246/283 MVA units. This project was needed for regional reliability to address the overload of the Seminole 230/115-kV transformers for the outage of the parallel Seminole 230/115-kV transformer. SPP issued SPS an NTC for this project.
81	Electric Transmission	RE	9,482.19	74.67	-	74.67	Short Circuit Interrupting Duty 2016 - This project replaced various transmission circuit breakers where the transmission system had a higher available fault current than the interrupting rating of these particular circuit breakers.
82	Electric Transmission	RE	(30,876.22)	32,724.75	-	32,724.75	Sierra Substation (RIAC Conversion) - This project constructed a new 115-kV distribution substation and converted 2 miles of 69-kV transmission line to 115-kV operation. This project moved load from the 69-kV system to the 115-kV system, eliminating the contingency overloading problem on the 115/69-kV transformers at Roswell Interchange. SPP issued SPS an NTC for this project.
83	Electric Transmission	RE	(112,140.30)	143.03	-	143.03	Soncy Dist. Transformer Conv. - This project converted the 69-kV Soncy Substation distribution transformer and transmission line to 115-kV operation. This was needed to reduce the loading on the 69-kV underground cable from Lawrence Park Substation. SPP issued SPS an NTC for this project.

Southwestern Public Service Company

Actual Capital Additions
April through June 2019
Transmission

(A) Line No.	(B) Asset Class	(C) Witness	(D) Project Category	(E-i) Additions to Plant-in-Service (April 2019-June 2019)	(E-ii) XES Charges (Included in Column D)	(E-iii) Other Affiliate Charges (Included in Column D)	(E-iii) Total Affiliate Charges (Included in Column D)	(F) WBS Level 1 Project Group Name and Description
84	Electric Transmission	Cooley	LI	0.01	-	-	-	Springlake Sub. Conversion & T28 Tap - This project constructed a new four-mile, 115-kV line from transmission line T-28 to Springlake Substation and converted the transmission service voltage to this substation from 69-kV to 115-kV. This project is needed to provide additional service for a new customer load.
85	Electric Transmission	Cooley	RE	190,929.04	1,561.21	-	1,561.21	SPS Facility Rating Mitigation - This project upgraded the 115-kV transmission terminal equipment at Carlisle Interchange and Yuma Interchange to match the rating of transmission line T-71. This project was needed to prevent operational issues when the loading on this line exceeded its previous lower rating.
86	Electric Transmission	Cooley	SR	5,618.07	-	-	-	SPS Group 1 Switch Replacements - These projects replaced old high-maintenance or broken switches with new switches.
87	Electric Transmission	Cooley	SR	992,463.13	-	-	-	SPS Line Capacity - This project surveyed and verified the line ratings of the SPS transmission system for lines above 100-kV. This project is a required response to a North American Electric Reliability Corporation ("NERC") Facility Ratings Alert, issued October 7, 2010 and updated on November 30, 2010, requiring transmission owners to verify that transmission line ratings are based on actual field conditions and, if not, perform necessary activities to base ratings on actual field conditions. The survey was done using Light Detection And Ranging ("LiDAR") technology that uses a laser to make highly accurate distance measurements. This project provided for the survey work and any mitigations that were needed to raise the facility capacity ratings if the field results were less than expected.
88	Electric Transmission	Cooley	SR	25,549.59	886.81	-	886.81	SPS Major Line Refurbishment - This project refurbished various 230-kV lines in the SPS system.
89	Electric Transmission	Cooley	OT	2,507.09	581.08	-	581.08	SPS Sub Communication Network Group 1 - These projects provided for the construction of a fiber optics communication infrastructure within the SPS region. The first leg of a multi-year effort will start in the Amarillo area by installing Optical Ground Wire ("OPGW") in the static position on selected transmission lines to create a redundant fiber optic communication ring with access to the Amarillo Transmission Operations Center. This ring provides redundant protection paths for the line sections on which the OPGW is installed as well as provides redundant paths for the Supervisory Control And Data Acquisition ("SCADA") system.
90	Electric Transmission	Cooley	RE	87,345.10	-	-	-	SPS Walkemeyer 345 115 280 MVA SUB - This project constructed the new Carpenter Switching Station (formerly Stevens County) which is located on the 345-kV line from Hichland Interchange to Finney Switching Station. This project was needed to address low voltages in the area. SPP issued SPS an NTC for this project.

Southwestern Public Service Company

Actual Capital Additions
April through June 2019
Transmission

(A) Line No.	(B) Asset Class	(C) Witness	(D) Project Category	(E-i) Additions to Plant-in-Service (April 2019-June 2019)	(E-i) XES Charges (Included in Column D)	(E-ii) Other Affiliate Charges (Included in Column D)	(E-iii) Total Affiliate Charges (Included in Column D)	(F) WBS Level 1 Project Group Name and Description
91	Electric Transmission	Cooley	RE	45.97	-	-	-	STEP Newhart Interchange - This project constructed a new 230/115-kV interchange and substation with associated 115-kV transmission lines near Hart, Texas. The project upgraded the transmission system in this area and relieved high transmission loadings on the central part of the SPS transmission system in Castro, Parmer, Swisher, Bailey, Lamb and Hale counties. SPP issued SPS an NTC for this project.
92	Electric Transmission	Cooley	RE	(13,815.13)	489.11	-	489.11	sundown-amoco switch 230kV terminals - This project upgraded the 230-kV Sundown and Amoco station line terminals and increased the transmission line clearance of the 230-kV line from Amoco to Sundown to provide a summer emergency rating of 547 MVA for this line segment. The system limitation caused by this line was identified in SPP's 2016 Near Term study. SPP issued SPS an NTC for this project.
93	Electric Transmission	Cooley	RE	6,952.30	-	-	-	Targa Cardinal Reconnector 115kV Line - This project re-conducted the 2.6-mile, 115-kV transmission circuit running from Targa Substation to the Cardinal Switching Station. This project was needed to eliminate the overloading of this segment during certain system conditions. SPP issued SPS an NTC for this project.
94	Electric Transmission	Cooley	RE	68,797.91	7,938.16	-	7,938.16	TUCO S 230 115 Xfmr Upgrade - This project replaced the existing 230/115-kV, 250 MVA circuit 1 autotransformer at TUCO Substation with a new 284 MVA autotransformer. This project was needed to achieve a minimum emergency rating of 273 MVA for both the circuit 1 and circuit 2, 230/115-kV autotransformers at TUCO Substation. SPP issued SPS an NTC for this project.
95	Electric Transmission	Cooley	SR	270,274.77	12,638.17	-	12,638.17	Unserviceable - Relays - SPS - This project replaced relays determined to be unserviceable during maintenance or testing activities.
96	Electric Transmission	Cooley	RE	63,041.87	25,432.74	-	25,432.74	W40 Reconnector Canyon West-Deaf Smith - This project wrecked out and rebuilt 26 miles of 115-kV transmission line running from Canyon West Substation to Deaf Smith Interchange. This project was needed to eliminate the overloading of this segment during certain system conditions. SPP issued SPS an NTC for this project.
97	Electric Transmission	Cooley	RE	3,952,738.29	17,630.35	-	17,630.35	W77 T75 Reconnector Arrowhead to Randall - This project rebuilt approximately 3.5 miles of double-circuit 115-kV transmission line, W77 (Canyon-West to Randall) and T-75 (Osage to Amarillo South) with phase conductors with a minimum of 240 MVA Summer Emergency rating. This project mitigates the overload of the Randall-Canyon East 115-kV line for various outages like the Bushland Interchange to Deaf Smith County Interchange 230-kV. SPP issued SPS an NTC for this project.

Southwestern Public Service Company

Actual Capital Additions
April through June 2019
Transmission

(A) Line No.	(B) Asset Class	(C) Project Category	(D) Additions to Plant-in-Service (April 2019-June 2019)	(E-i) XES Charges (Included in Column D)	(E-ii) Other Affiliate Charges (Included in Column D)	(E-iii) Total Affiliate Charges (Included in Column D)	(F) WBS Level 1 Project Group Name and Description
98	Electric Transmission	RE	(51,167.10)	-	-	-	Yoakum 115kV BFR - This project installed Breaker Failure Relay (BFR) protection on all the 115-kV breakers at Yoakum Co. Interchange. Installing BFR protection reduces the clearing time of the fault during a stuck breaker event, which has been determined to cause major generation and transmission system impacts for certain breaker failure events.
99	Electric Transmission	RE	2,992,396.80	15,476.55	-	15,476.55	Yoakum Intg. 230/115 Transformer Upgrades - This project replaced the two existing 230/115-kV, 150 MVA autotransformers at Yoakum County Interchange with two new 250 MVA transformers. This project was needed to prevent the overloading of one of the 150 MVA transformers for the contingency of the other 150 MVA transformer being unavailable. SPP issued SPS an NTC for this project. Z66 Booker/Wade Conversion - This project removed the existing 69-kV line Z-66 (Perryton to Booker) and replaced it with a new 115-kV transmission line. It also converted the existing Wade and Booker substations to 115-kV operation. This project mitigated low voltage and overload conditions due to a Hitchland-Ochiltree 230-kV line outage and allows for future load growth in the area. The new source for these substations is the Ochiltree Substation 115-kV bus.
100	Electric Transmission	RE	153,885.36	1,966.83	-	1,966.83	
101	Electric Transmission Total			\$ 155,147,117.72	\$	\$ 556,672.84	Anarillo West Upgrade - This project provided for various new infrastructure projects to address reliability and city expansion in the Anarillo area.
102	Electric General	RE	\$ 23,030.34	\$	-	\$	Atoka-Eagle Creek - This project constructed a 115-kV transmission line between the Atoka and Eagle Creek Substations near Artesia, New Mexico. The project is needed to address low voltages in the area. SPP issued SPS an NTC for this project.
103	Electric General	RE	(10,988.00)	-	-	-	Cargill 14.4 Mvar Cap Bank - This project installed a 14.4 MVar capacitor bank on the 115-kV bus at Cargill Substation. The new capacitor bank will provide voltage support in the south central part of the Texas panhandle and the eastern part of New Mexico. SPP issued SPS an NTC for this project.
104	Electric General	RE	(7,267.22)	-	-	-	Chevron South Eddy Fields Load Addition - This project installed a three-way 115-kV switch on transmission line W-87 west of China Draw
105	Electric General	LI	38,900.96	710.22	-	710.22	substation to provide a new 115-kV service point for a new substation owned by Chevron.
106	Electric General	RE	(19,149.43)	-	-	-	Cochran Co - Whiteface 115kV - This project reconducted the 4.4 mile segment of the 69-kV transmission line from Cochran County Substation to structure number 55 at Whiteface Tap. SPP issued SPS an NTC for this project.

Southwestern Public Service Company

Actual Capital Additions
April through June 2019
Transmission

(A) Line No.	(B) Asset Class	(C) Witness	(D) Project Category	(E-i) Additions to Plant-in-Service (April 2019-June 2019)	(E-ii) XES Charges (Included in Column D)	(E-iii) Other Affiliate Charges (Included in Column D)	(E-iii) Total Affiliate Charges (Included in Column D)	(F) WBS Level 1 Project Group Name and Description
107	Electric General	Cooley	RE	148,388.45	(908.82)	-	(908.82)	Deaf Smith 230kV Breaker Add - This project created a ring bus on the 230-kV side of the Deaf Smith Substation to address reliability compliance requirements under current NERC standards.
108	Electric General	Cooley	RE	184.42	-	-	-	Denver City In-Line 115 kV Bkr - This project installed breaker failure relays on all 115-kV breakers at Denver City Interchange. Eddy County Dbl Bus Dbl Brkr 230kV - This project reconfigured the existing Eddy County Interchange 230-kV bus from a main and transfer bus design to a double bus-double breaker arrangement. This project was required to meet long-term firm transmission service requests in the SPP Aggregate Facility Study SPP-2013-AG3-AFS-6. SPP issued SPS an NTC for this project.
109	Electric General	Cooley	RE	6,027.11	-	-	-	ELR - Relay - SPS - The term "ELR" stands for End of Life Replacement. This project replaced protective relays that had reached the end of their useful life.
110	Electric General	Cooley	SR	150,030.75	915.83	-	915.83	GEN 2011-022 (Firewheel) - This project constructed a new 345-kV terminal at Hitchland Interchange to provide an interconnection point for a new wind farm.
111	Electric General	Cooley	GI	336.48	-	-	-	GEN 2012-020 Hale Co Wind, 478MW - This project constructed a new 230-kV terminal at TUCO Interchange for the interconnection of the Hale County wind farm.
112	Electric General	Cooley	GI	0.08	-	-	-	GEN-2015-014 Lost Draw Substation - This project constructed the new Lost Draw Switching Station to provide a 115-kV interconnection point for the Wildcat Ranch wind farm.
113	Electric General	Cooley	GI	10,707.38	-	-	-	Ink Basin Substation - This project constructed a new 230/115-kV, three breaker ring bus interchange in the south-central part of Yoakum County, Texas. Existing transmission circuits 115-kV V80 and 230-kV K93 were routed in to and out of the new interchange. A new 230/115-kV, 250 MVA, transformer provides a new source of power for the 115-kV. SPP issued SPS an NTC for this project.
114	Electric General	Cooley	RE	218,379.87	311.83	-	311.83	Interconnection Milwaukee - This project installed the new SPS Quincy Switching Station to provide 115-kV service to South Plains Electric Cooperative to serve new load from their new Milwaukee Substation.
115	Electric General	Cooley	LI	105,920.79	187.07	-	187.07	Interconnection XTO Mahoney - This project installed the new Mahoney Switching Station to provide a new 230-kV service point to XTO.
116	Electric General	Cooley	LI	5,860.26	-	-	-	Kiser Distribution Addition - This project constructed a new 115/12.5-kV distribution substation near Plainview, Texas. The project was needed to address overloads in the area.
117	Electric General	Cooley	LI	12,251.38	-	-	-	Lea Co Plains Sw Cap Bank - This project installed a 14.4 MVAr capacitor bank. SPP issued SPS an NTC for this project.
118	Electric General	Cooley	RE	53,227.22	-	-	-	

Southwestern Public Service Company

Actual Capital Additions
April through June 2019
Transmission

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119	Electric General	Cooley	SR	514.82	35.76	-	35.76	Line ELR SPS - The term "ELR" stands for End of Life Replacement. This project provided for improvement work on transmission lines to address high priority capital defects, such as defective wood poles and cross arms, that were discovered through line inspections. Work in the ELR group included emergent work, planned usually 12 to 18 months in advance of the work being performed. Typically this work replaced capital property units on a like-for-like basis and returned the transmission line to overall good health. LP L Relay Upgrades - This project upgraded the line protection relays, breaker controls and communication architecture at SPS's Lubbock East and Lubbock South Interchanges on the terminals providing 230-kV service to Lubbock Power and Light (LP&L). Lynn Co. 115/69 Xfmr #1 Upgrade - This project replaced the 40 MVA, 115/69-kV transformer at Lynn County substation with a 84 MVA unit. This project was needed to address the overload of the Lynn County Interchange 115/69-kV circuit 1 transformer for the loss of Lynn County Interchange 115/69-kV circuit 2 transformer. SPP issued SPS an NTC for this project. Mustang-Shell CO2 115kV Line - This project constructed a new 115-kV transmission line between the Mustang and Shell CO2 substations. The project was needed to address overloads in the area. SPP issued SPS an NTC for this project. OPIE 2 China Draw-Wood Draw 115kV_PID 30825 - This project constructed a 115-kV line between China Draw and Wood Draw to loop the 115-kV transmission system. This line is south of Carlsbad, New Mexico. This project was needed for system reliability and SPP issued SPS an NTC for this project. OPIE 2 Livingston Ridge-Cardinal 115kV_PID 30695 - This project replaced the existing 69-kV Livingston Ridge Substation with a new 115-kV Livingston Ridge Substation near Carlsbad, New Mexico, constructed the new 115-kV Sage Brush Substation near Hobbs, New Mexico, and constructed the new Cardinal Substation near Hobbs, New Mexico, and constructed a new 115-kV transmission line between the Livingston Ridge, Sage Brush, and Cardinal Substations. The project was identified by SPP in the High Priority Incremental Load Study ("HPILS"). SPP issued SPS an NTC for this project. OPIE 3 Kiowa-China Draw 345kV_PID 30638 - This project installed new 345/115-kV transformers at North Loving and China Draw substations. It also constructed a new 345-kV transmission line from Kiowa to North Loving to China Draw substation. The project was needed for reliability and SPP issued SPS an NTC for this project.
120	Electric General	Cooley	SR	(1,364.26)	308.41	-	308.41	
121	Electric General	Cooley	RE	83,355.89	4,873.07	-	4,873.07	
122	Electric General	Cooley	RE	301,341.76	-	-	-	
123	Electric General	Cooley	RE	(8,249.54)	-	-	-	
124	Electric General	Cooley	RE	(0.13)	-	-	-	
125	Electric General	Cooley	RE	0.01	-	-	-	

Southwestern Public Service Company

Actual Capital Additions
April through June 2019
Transmission

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126	Electric General	Cooley	LI	400.96	400.96	-	400.96	OPIE Enterprise S Eddy Tap - This project connected a new 25 MW gas processing load on the Red Bluff to Wood Draw 115-kV line. This line is southeast of Carlsbad, New Mexico.
127	Electric General	Cooley	RE	66.96	-	-	-	OPIE Hobbs-Kiowa 345kV PID 30637 - This project installed new 345/115-kV transformers at the Hobbs Generating Plant and Kiowa interchanges. It also constructed a new 345-kV transmission line between Hobbs Generating Plant and Kiowa substations. The project was needed for reliability and SPP issued SPS an NTC for this project. Physical Security - This project installed Physical Security Upgrades affecting SPS substation protection with specific work varying by substation location, current layout, and threat history. Typical security measures included the installation of equipment such as cameras and motion sensors at substations.
128	Electric General	Cooley	OT	511,256.70	3,364.59	-	3,364.59	Plant X 115kV BFR - This project added breaker failure relaying to all the 115-kV breakers at Plant X as well as at the remote terminals of line T28 at Lamton, line V09 at Hale County and line V13 at Lamb County. This project was needed to address the findings of a North American Electric Reliability Corporation ("NERC") TPL-001-4 assessment of the 115-kV bus at Plant X for certain 115-kV breaker failure events.
129	Electric General	Cooley	RE	44,964.92	337.31	-	337.31	RB - Purnell Sub - This project installed a new 115-kV terminal at SPS's XIT Substation to provide 115-kV service to Rita Blanca Electric Cooperative to serve new load from its new Wolves Substation.
130	Electric General	Cooley	LI	1,562,995.49	54.27	-	54.27	Roosevelt City 230 Brkr 1/2 - This project re-configured the Roosevelt County Substation 230-kV bus to a double-bus, double breaker configuration to accommodate the addition of the Pleasant Hill 230-kV line terminal. The upgraded configuration improves reliability and mitigates long-term outages in the event of a breaker that fails to open.
131	Electric General	Cooley	RE	(24,602.60)	-	-	-	RTU - EMS Upgrade - SPS - This project replaced remote terminal units ("RTUs") that were at the end of their useful service life.
132	Electric General	Cooley	OT	33,810.89	104.24	-	104.24	S&E - SPS Sub - These projects provided for the storm and emergency work orders that repaired substation facilities damaged by inclement weather and natural disasters.
133	Electric General	Cooley	SR	(107,431.95)	-	-	-	Security Access Control System - This project replaced the existing standard locks on substation entry gates with locks that use an electronic key to restrict substation access to authorized personnel and to meet compliance requirements.
134	Electric General	Cooley	OT	191,991.05	11,173.83	-	11,173.83	

Southwestern Public Service Company

Actual Capital Additions
April through June 2019
Transmission

(A)	(B)	(C)	(D)	(E-i)	(E-ii)	(E-iii)	(F)
Line No.	Asset Class	Witness	Project Category	Additions to Plant-in-Service (April 2019-June 2019)	XES Charges (Included in Column D)	Other Affiliate Charges (Included in Column D)	Total Affiliate Charges (Included in Column D)
							WBS Level 1 Project Group Name and Description
135	Electric General	Cooley	RE	(4,312.95)	-	-	seminole intg 230/115kV xfmr #1 & #2 upgrades - This project replaced the two 230/115-kV transformers at Seminole Interchange with two 246/283 MVA units. This project was needed for regional reliability to address the overload of the Seminole 230/115-kV transformers for the outage of the parallel Seminole 230/115-kV transformer. SPP issued SPS an NTC for this project. Sierra Substation (RIAC Conversion) - This project constructed a new 115-kV distribution substation and converted 2 miles of 69-kV transmission line to 115-kV operation. This project moved load from the 69-kV system to the 115-kV system, eliminating the contingency overloading problem on the 115/69-kV transformers at Roswell Interchange. SPP issued SPS an NTC for this project. SPS Checkpoint Firewalls - This project installed firewall hardware on the fiber optics communications system, which is located on the transmission lines and substations. These firewall hardware installations were needed to provide data security for the data being transmitted over the fiber optic communication system. SPS Frame Relay - These projects installed communications equipment for control and monitoring of the various substations upgraded with this project. SPS Group 1 Switch Replacements - These projects replaced old high-maintenance or broken switches with new switches. SPS Sub Communication Network Group 1 - These projects provided for the construction of a fiber optics communication infrastructure within the SPS region. The first leg of a multi-year effort will start in the Amarillo area by installing Optical Ground Wire ("OPGW") in the static position on selected transmission lines to create a redundant fiber optic communication ring with access to the Amarillo Transmission Operations Center. This ring provides redundant protection paths for the line sections on which the OPGW is installed as well as provides redundant paths for the Supervisory Control And Data Acquisition ("SCADA") system. SPS Walkemeyer 345 115 280 MVA SUB - This project constructed the new Carpenter Switching Station (formerly Stevens County) which is located on the 345-kV line from Highland Interchange to Finney Switching Station. This project was needed to address low voltages in the area. SPP issued SPS an NTC for this project. Tools COM Substation - These projects purchased capital tools for construction and maintenance activities. Tools Line Field Ops - This project purchased capital tools for the construction of capital projects.
136	Electric General	Cooley	RE	14,321.22	-	-	-
137	Electric General	Cooley	OT	65,792.56	2,484.99	-	2,484.99
138	Electric General	Cooley	OT	(82,279.22)	-	-	-
139	Electric General	Cooley	SR	101,570.55	374.70	-	374.70
140	Electric General	Cooley	OT	6,257.62	-	-	-
141	Electric General	Cooley	RE	(162.06)	-	-	-
142	Electric General	Cooley	OT	66,896.11	-	-	-
143	Electric General	Cooley	OT	9,247.29	-	-	-

Southwestern Public Service Company

Actual Capital Additions
April through June 2019
Transmission

(A) Line No.	(B) Asset Class	(C) Project Category	(D) Additions to Plant-in-Service (April 2019-June 2019)	(E-i) XES Charges (Included in Column D)	(E-ii) Other Affiliate Charges (Included in Column D)	(E-iii) Total Affiliate Charges (Included in Column D)	(F) WBS Level 1 Project Group Name and Description
144	Electric General	OT	2,865.43	-	-	-	Tools STAC - This project installed a firewall between the Remote Terminal Units ("RTU") at the Substation Technical Application Center (STAC) and the SPS Transmission Operations Center to provide required data security. Tools, Training Center - This project purchased capital tools to construct capital projects and capital tools to be used in the training center. Transportation - SPS - These projects purchased fleet vehicles for operation in the SPS area. The vehicles included automobiles, trucks, heavy vehicles such as bucket trucks, high-reach bucket trucks, hole-diggers, and trailers. Without these vehicles, crews would not have access to a predictable and reliable method of transport nor have the necessary equipment to perform needed transmission construction work.
145	Electric General	OT	10,942.98	-	-	-	
146	Electric General	OT	36,881.52	2,884.64	-	2,884.64	
147	Electric General	RE	(19,833.07)	-	-	-	Yoakum 115kV BFR - This project installed Breaker Failure Relay (BFR) protection on all the 115-kV breakers at Yoakum Co. Interchange. Installing BFR protection reduces the clearing time of the fault during a stuck breaker event, which has been determined to cause major generation and transmission system impacts for certain breaker failure events.
148	Electric General Total		\$ 3,533,079.79	\$ 27,612.90	\$ -	\$ 27,612.90	
149	Grand Total		\$ 158,680,197.51	\$ 584,285.74	\$ -	\$ 584,285.74	