

**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**

**UPDATE TESTIMONY
of
MARK P. MOELLER**

on behalf of

SOUTHWESTERN PUBLIC SERVICE COMPANY

(Filename: MoellerRRUpdate.docx; Total Pages: 89)

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GLOSSARY OF ACRONYMS AND DEFINED TERMS

<u>Acronym/Defined Term</u>	<u>Meaning</u>
ADIT	accumulated deferred income tax
Commission	Public Utility Commission of Texas
RFP	Rate Filing Package
SPS	Southwestern Public Service Company, a New Mexico corporation
Total Company or total company	Total SPS (before jurisdiction allocation)
Update Period	April 1, 2019 through June 30, 2019
Xcel Energy	Xcel Energy Inc.
XES	Xcel Energy Services Inc.

LIST OF ATTACHMENTS

<u>Attachment</u>	<u>Description</u>
MPM-RR-U1	SPS's Updated Depreciation Expense (Filename: Attachment MPM-RR-U1.xlsx)
MPM-RR-U2	Update to Calculation to Unblend Depreciation Reserve (Filename: Attachment MPM-RR-U2.xlsx)
MPM-RR-U3	Update to Calculate Accumulated Deferred Federal Income Tax Unblending Adjustment (Filename: Attachment MPM-RR-U3.xlsx)
MPM-RR-U5	Actual Capital Additions in the Update Period Separated by Sponsoring Witness (Filename: Attachment MPM-RR-U5.xlsx)
MPM-RR-U6	Plant-Related Roll Forwards for Actual Additions in the Update Period (Filename: Attachment MPM-RR-U6.xlsx)
MPM-RR-U7	Capital Additions in the Update Period, Separated by Cost Component and Sponsoring Witness (Filename: Attachment MPM-RR-U7.xlsx)
MPM-RR-U9	Allocating Software Work Orders for the Update Period (Filename: Attachment MPM-RR-U9.xls)

**UPDATE TESTIMONY
OF
MARK P. MOELLER**

I. WITNESS IDENTIFICATION

1

2 **Q. Please state your name and business address.**

3 A. My name is Mark P. Moeller. My business address is 401 Nicollet Mall,
4 Minneapolis, Minnesota 55401.

5 **Q. By whom are you employed and in what position?**

6 A. I am employed by Xcel Energy Services Inc. (“XES”) as Director of Capital Asset
7 Accounting.

8 **Q. On whose behalf are you testifying in this proceeding?**

9 A. I am filing testimony on behalf of Southwestern Public Service Company, a New
10 Mexico corporation (“SPS”).

11 **Q. Are you the same Mark P. Moeller who filed direct testimony on behalf of**
12 **SPS in this docket?**

13 A. Yes.

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A. As explained in SPS's direct testimony, SPS is using an Updated Test Year in this case. The Updated Test Year is the period from July 1, 2018 through June 30, 2019. As a result of the three-month reach-forward used in the original filing, certain costs for the period from April 1, 2019 through June 30, 2019 ("Update Period") in SPS's direct testimony were estimated. This testimony provides an update to those estimates by providing actual amounts during the Update Period.

Q. Are any of the Rate Filing Package (“RFP”) schedules that you sponsor or co-sponsor updated in this filing?

A. Yes. The updated RFP schedules that I sponsor or co-sponsor in this filing are shown in Table MPM-RR-U1:

Table MPM-RR-U1

Schedule C	1, 2, 3, 4.1, 5
Schedule D	1, 3, 4
Schedule G	7.1, 7.1a, 7.4, 7.4a, 7.4b, 7.6, 7.7, 7.8, 7.9, 7.9a
Schedule P	11

1 **Q. Please summarize your update testimony and recommendations.**

2 A. My testimony and recommendations can be summarized as follows:

- 3 • SPS requests approval of \$940,797,043 (total company) of capital
4 additions during the Update Period, including the associated capitalized
5 affiliate charges of \$2,495,086 (total company). For the reasons presented
6 in my direct and update testimony, and as supported by the witnesses who
7 discuss the specific capital projects, the capital additions and associated
8 capitalized affiliate charges are reasonable and necessary, were prudently
9 incurred, and support SPS's ability to provide electric service to its
10 customers. Therefore, I recommend that the Public Utility Commission of
11 Texas ("Commission") approve their inclusion in rate base. The total
12 actual capital additions and capitalized affiliate costs from the Update
13 Period were \$10,502,662 (total company) less than SPS's estimated
14 capital additions for the period, and were part of the same or similar
15 projects as those listed in SPS's original filing.
- 16 • SPS requests that the Commission allow SPS to increase its current
17 depreciation and amortization expense by \$64,300,159 (total company).
18 The amount represents the difference between: (1) the currently-approved
19 depreciation rates being applied to the plant balance as of June 30, 2019;
20 and (2) the new depreciation rates proposed by Alliance Consulting being
21 applied to the plant balance as of June 30, 2019. In both instances, the
22 June 30, 2019 plant balance includes the incremental capital additions
23 during the Update Period. The \$64,300,159 (total company) represents an
24 increase of \$87,517 (total company) in depreciation expense compared to
25 SPS's original filing.
- 26 • SPS's updated adjustment to the financial depreciation and amortization
27 reserve to reflect Texas-only depreciation rates reduces the accumulated
28 depreciation reserve by \$98,831,639 (total company) at June 30, 2019.
29 The adjustment reflects the continued acceptance of an annual, routine
30 adjustment to unblend the depreciation reserve. The financial ADIT was
31 increased by \$19,659,055 (total company) at June 30, 2019 to reflect the
32 impact that the Texas-only depreciation rates has on ADIT. I recommend
33 that the Commission approve these amounts.

34 **Q. Were Attachments MPM-RR-U1 through MPM-RR-U9 and the updated**
35 **RFP schedules that you sponsor or co-sponsor prepared by you or under**
36 **your direct supervision and control?**

37 A. Yes.

1 **Q.** **Do you incorporate into your testimony the updated RFP schedules that you**
2 **sponsor or co-sponsor?**

3 **A.** **Yes.**

1 **III. UPDATE PERIOD CAPITAL ADDITIONS**

2 **Q. What topic do you discuss in this section of your testimony?**

3 A. In this section of my testimony, I discuss SPS's request to include the actual
4 amount of capital additions, including the associated actual affiliate charges,
5 closed to plant-in-service during the Update Period.

6 **Q. Do the requested capital additions from the Update Period include affiliate**
7 **charges?**

8 A. Yes. Capital additions from the Update Period include affiliate charges. In
9 regard to those affiliate charges, in this section of my testimony I will demonstrate
10 that these costs are appropriate construction charges. My discussion will divide
11 the affiliate charges into two segments – Software and All Other Plant. It is
12 appropriate to split the charges in this manner because the charges for capitalized
13 software are mostly assigned to SPS through an allocation. Though allocated,
14 these costs are still appropriately included in rate base, but the equitable nature of
15 this assignment method will be described separately from the direct charge
16 method generally used for other construction costs.

17 **Q. Do you have a list of Update Period capital additions that reflect actual**
18 **amounts closed to plant-in-service?**

19 A. Yes. My Attachment MPM-RR-U5 is a list of SPS's requested capital additions
20 for the Update Period. This attachment provides the following information:

Column A —	Asset Class	Identifies the type of asset.
Column B —	Witness	Identifies the witness supporting the project.
Column C —	Project Category	Provides the project category that is descriptive of the project's type.
Column D —	Additions to Plant-inService	The total company dollar amount of the addition to plant-in-service.
Column E —	Total Affiliate Charges (Included in Column D)	The total charges from XES and other affiliates included in the total company dollar amount of addition to plant-in-service for the project in Column D.
Column F —	Project Description	Provides a short description for the project.

1 **Q. Are other SPS witnesses who discuss capital additions filing updated**
2 **testimony or an update affidavit?**

3 A. Yes. The six SPS witnesses listed below support the reasonableness and necessity
4 of the specific capital projects within the overall requested capital additions for
5 the Update Period. Those witnesses are filing updated attachments reflecting
6 actual capital additions during the Update Period:

Casey S. Meeks	Distribution and related general plant
Lawrence A. Bick	General plant (related to facilities and property services)
Mark Lytal	Production and related general plant
David C. Harkness	General plant (related to information technology) and software

Jarred J. Cooley

Transmission and related general
plant

Steven J. Brown

Physical Security

1 All of those witnesses have provided testimony or affidavits in SPS's update
2 filing to support the actual capital additions from the Update Period for their
3 respective business areas.

4 **Q. What is the total cost of capital projects placed in service between April 1,**
5 **2019 and June 30, 2019?**

6 A. As shown on Attachment MPM-RR-U5, the total cost is \$940,797,043 (total
7 company), which includes total affiliate costs of \$2,495,086 (total company).

8 **Q. Was the estimated amount of capital additions from the Update Period**
9 **different from the actual amount closed to plant-in-service?**

10 A. Yes. The total actual additions were \$10,502,662 (total company) less than SPS's
11 estimated amount of \$951,299,705 (total company).

12 **Q. Was the estimated amount of total affiliate charges different from the actual**
13 **affiliate charges during the Update Period?**

14 A. Yes. The total actual affiliate charges were \$61,283,515 (total company) less than
15 SPS's estimated amount of \$63,778,601 (total company).

16 **Q. Why were the actual affiliate charges lower than the estimated affiliate**
17 **charges during the Update Period?**

18 A. The main driver of the variance was the difference between actual and estimated
19 affiliate charges for the Hale Wind Farm for the Update Period. SPS estimated

1 the affiliate charges for the Hale Wind Farm by multiplying the forecasted capital
2 additions for the Update Period by the percentage of actual affiliate charges
3 related to actual plant additions during the 21-month period from July 2017 –
4 March 2019. The actual affiliate charges for the Hale Wind Farm, however, were
5 much lower than estimated. For example, the estimated affiliate charges for the
6 Hale Wind Farm were \$54,132,363 (total company), but the actual affiliate
7 charges during the Update Period related to the Hale Wind Farm were only
8 \$662,331 (total company).

9 **Q. What types of plant-related costs are included with the capital additions**
10 **placed in service during the Update Period?**

11 A. The plant-related expenses that are included in these capital additions are book
12 depreciation, tax depreciation and deductions, and annual deferred taxes.
13 Accumulated book depreciation and accumulated deferred tax balances are also
14 included in the calculation of the plant-related expenses. Attachment MPM-RR-
15 U6 shows the capital expenditures associated with the installation of new assets
16 between July 1, 2017 and June 30, 2019 by functional class and converts them
17 into plant additions based on the in-service date of the asset. These costs reflect
18 the entire cost necessary to put the assets in use, excluding Allowance for Funds
19 Used During Construction.

20 **Q. Did SPS have any plant-related adjustments during the Update Period?**

21 A. Yes. In June 2019, SPS unretired and reversed transfer plant transactions and
22 related depreciation related to FERC Account 371, *Installations on Customer*

1 *Premises*, and FERC Account 373, *Street Lights*. That adjustment was necessary
2 because in 2018 SPS had inadvertently retired or transferred the majority of assets
3 in FERC Account 371. These reversal activities were made to correct those
4 erroneous transactions.

5 **Q. Have you provided affiliate charge information as part of your update**
6 **testimony?**

7 A. Yes. For capital additions from April 1, 2019 through June 30, 2019, the
8 information is first presented in Attachment MPM-RR-U5, which shows the total
9 affiliate costs included in plant-in-service for the defined period. Actual affiliate
10 charges by cost component are also presented in Attachment MPM-RR-U7.

11 **Q. Have you provided a summary of the information provided in Attachment**
12 **MPM-RR-U5?**

13 A. Yes. The information from Attachment MPM-RR-U5 has been compressed to
14 show a summary by asset class of the work orders that closed to plant in-service
15 during the period from April 1, 2019 through June 30, 2019. This summarized
16 worksheet is provided on the first page in Attachment MPM-RR-U5. The
17 worksheet entitled “Summary by Asset Class” shows total plant additions for all
18 work orders, whether or not they had affiliate charges. The work orders that
19 became part of rate base for the period mentioned above are also summarized in
20 the following table (next page):

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Table MPM-RR-U2

Capital Additions in Rate Base April 1, 2019 through June 30, 2019 (Total Company)						
		<u>Affiliate Costs</u>		<u>Native Costs</u>		<u>Total Costs</u>
Production		\$1,368,257		\$704,501,312		\$705,869,569
Transmission		\$560,616		\$182,179,055		\$182,739,671
Distribution		\$44,268		\$35,518,627		\$35,562,895
General		\$236,206		\$14,408,436		\$14,644,642
Software		\$285,739		\$1,694,526		\$1,980,266
Total		\$2,495,086		\$938,301,957		\$940,797,043

2 **Q. Please explain the cost components for the affiliate charges to construction.**

3 A. Attachment MPM-RR-U7 provides a further breakdown of the affiliate costs into
 4 various cost components. As I explained in greater detail in my direct testimony,
 5 these cost components are standard construction costs such as direct costs for
 6 labor and materials, and support costs such as equipment and other related
 7 expenses. For the initial estimates, these charges by cost component were
 8 estimated based on historical experience. The charges by cost component have
 9 now been updated to reflect actual expenditures for April 1, 2019 through June
 10 30, 2019. The following table (next page) shows the cost breakdown for the
 11 affiliate costs separated into the software work orders and non-software work
 12 orders.

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Table MPM-RR-U3

**Cost Component Breakdown of Affiliate Costs in Capital Additions
from April 1, 2019 through June 30, 2019
(Total Company \$)**

	Software Work Orders	All Other Work Orders	Total Work Orders
Contract Work	\$187,597	\$835,204	\$1,022,801
Materials and Supplies	51	26,600	26,651
Labor	76,990	1,315,104	1,392,094
Other	21,101	32,439	53,540
Total	\$285,739	\$2,209,347	\$2,495,086

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Chart MPM-RR-U1 summarizes this data for the total affiliate costs included in

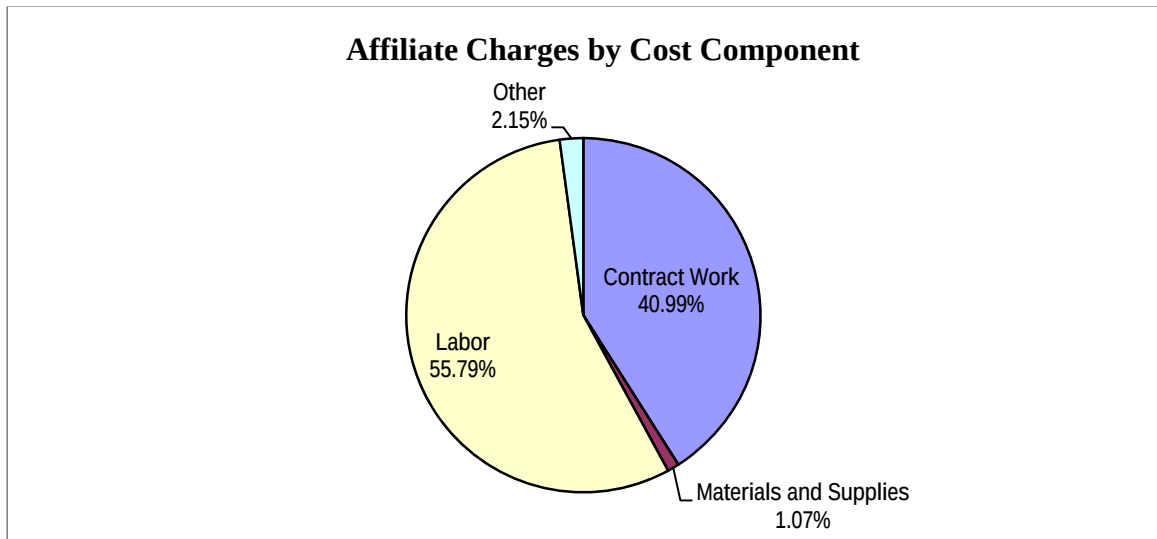
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plant additions. As the chart shows, 96.78% of the costs are contained in two cost

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categories: Contract Work and Labor.

5

Chart MPM-RR-U1

1 **Q. Have you provided the allocation percentages for the Xcel Energy Inc.**
2 **(“Xcel”)-wide software work orders?**

3 **A.** Yes. My Attachment MPM-RR-U9 provides the allocation percentages for all
4 Xcel-wide software work orders from the Update Period. As I explained in my
5 direct testimony, the apportionment methods are chosen to reflect the underlying
6 utilization of the system that is being allocated.

1 **IV. UPDATED BOOK DEPRECIATION**

2 **Q. What topics do you address in this section of your testimony?**

3 A. In this section of my testimony, I discuss SPS's updated requested depreciation
4 expense, which incorporates the effect of capital additions from the Update Period
5 and the resulting Texas-specific balance of SPS's accumulated depreciation.

6 **A. Depreciation**

7 **Q. Please describe the change in annualized depreciation expense as compared**
8 **to the depreciation expense included in SPS's current rates.**

9 A. Annualized depreciation expense from depreciable plant at June 30, 2019 is
10 increasing by \$64,116,494 (total company) when comparing current depreciation
11 rates to proposed depreciation rates. There is an increase of \$183,665 (total
12 company) in annualized amortization when comparing current amortization rates
13 to proposed amortization rates applied to amortizable plant at June 30, 2019. The
14 depreciable and amortizable plant at June 30, 2019 includes actual capital
15 additions during the Update Period. The total change in annualized depreciation
16 and amortization expense, when comparing current rates to proposed rates, is an
17 increase of \$64,300,159 (total company). This represents an \$87,517 (total
18 company) increase to annualized depreciation and amortization expense compared
19 to SPS's original filing.

20 The following Table MPM-RR-U4 shows the functional detail of the
21 requested depreciation increase.

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Table MPM-RR-U4
Annualized Depreciation and Amortization Expense Increase by Function
Total Company

		Impact of Depreciation Rate Change on Annual Depreciation	Impact of Amortization Rate Change on Annual Amortization
Steam Production		\$40,025,001	\$142,301
Other Production		5,191,815	0
Transmission		16,665,104	36,975
Distribution – Texas Assets		1,121,347	1,749
Distribution – New Mexico Assets		1,932,022	656
General		(818,794)	(327)
Electric Intangibles		0	2,310
Total Increase		\$64,116,494	\$183,665

B. Updated Texas-Only Balance of Accumulated Depreciation

Q. Please describe the result of SPS’s updated adjustment to unblend the financial depreciation reserve to achieve a Texas-only depreciation reserve.

A. The unblending adjustment decreased the total company financial depreciation reserve by \$98,831,639 (total company) at June 30, 2019. The details of the calculation are provided as Attachment MPM-RR-U2. This calculation is the same process that was completed in SPS’s initial filing and described in my direct testimony. The Update Period adjustment is not shown as a discrete adjustment in the jurisdictional cost of service study presented by SPS witness Arthur P. Freitas in this update filing. Rather, it is a component of the SPS Plant Estimate adjustment.

1 **Q. Is there a deferred tax adjustment associated with the depreciation**
2 **unblending adjustment?**

3 A. Yes. The adjustment increased the ADIT by \$19,659,055 at June 30, 2019.
4 Attachment MPM-RR-U3 contains the detailed calculations. This calculation is
5 the same process that was completed for SPS's original filing and that was
6 described in more detail in my direct testimony. The Update Period adjustment is
7 not shown as a discrete adjustment in the cost of service study presented by Mr.
8 Freitas in this update filing. Rather, it is a component of the ADIT estimated
9 adjustment.

10 **Q. Does this conclude your pre-filed update testimony?**

11 A. Yes.

AFFIDAVIT

STATE OF MINNESOTA)
)
COUNTY OF HENNEPIN)

MARK P. MOELLER, first being sworn on his oath, states:

I am the witness identified in the preceding testimony. I have read the testimony and the accompanying attachments and am familiar with their contents. Based upon my personal knowledge, the facts stated in the testimony are true. In addition, in my judgment and based upon my professional experience, the opinions and conclusions stated in the testimony are true, valid, and accurate.



MARK P. MOELLER

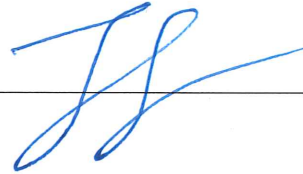
Subscribed and sworn to before me this 16 day of September, 2019 by
MARK P. MOELLER.




Notary Public, State of Minnesota
My Commission Expires: 1/31/2020

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 is written over a horizontal line. The signature is stylized, appearing to be the initials 'JS' followed by a flourish.

Southwestern Public Service Company

Annualized Depreciation Expense Impact
For Year ended June 30, 2017, March 31, 2019, and June 30, 2019

Functional Class	Depreciable Plant Balance				Approved Rates (Note 1)		
	6/30/2017	3/31/2019	6/30/2019	Change	6/30/2017	3/31/2019	6/30/2019
	[A]	[B]	[C]	[D] = [C] - [A]	[E]	[F]	[G]
<u>Depreciation</u>							
Steam Production	\$ 1,831,118,163	\$ 1,870,111,770	\$ 1,896,383,878	\$ 65,265,715	\$ 47,758,968	\$ 48,832,545	\$ 49,523,980
Other Production	291,650,812	289,214,125	968,138,588	676,487,776	7,088,765	7,029,426	30,082,130
Electric Transmission	2,471,533,218	2,852,535,837	3,031,755,724	560,222,507	58,396,521	67,366,415	71,593,787
Electric Distribution - New Mexico Assets	438,049,922	490,194,422	499,545,185	61,495,263	11,501,920	12,845,517	13,102,283
Electric Distribution - Texas Assets	816,149,891	893,269,457	913,038,412	96,888,521	21,619,372	23,595,027	24,092,587
Electric General	399,864,097	469,283,074	477,786,740	77,922,643	28,301,454	32,236,784	33,953,238
Total Depreciation Change	\$ 6,248,366,104	\$ 6,864,608,685	\$ 7,786,648,528	\$ 1,538,282,424	\$ 174,667,000	\$ 191,905,713	\$ 222,348,004
<u>Amortization</u>							
Electric Intangibles	\$ 144,006,396	\$ 175,491,762	\$ 174,996,076	\$ 30,989,680	\$ 22,073,818	\$ 25,020,629	\$ 24,821,327
Steam Production	12,700,744	12,722,831	12,722,831	22,088	467,041	467,929	467,929
Other Production	676	676	676	-	-	-	-
Electric Transmission	126,133,905	152,353,790	154,064,132	27,930,227	1,571,628	1,898,328	1,919,639
Electric Distribution - New Mexico Assets	6,153,205	7,085,074	7,737,357	1,584,151	86,600	99,715	108,896
Electric Distribution - Texas Assets	2,359,951	2,820,897	2,903,014	543,063	33,214	39,701	40,857
Electric General	8,138,684	4,284,174	4,284,174	(3,854,510)	1,136	1,136	1,136
Total Amortization Change	\$ 299,493,560	\$ 354,759,205	\$ 356,708,260	\$ 57,214,700	\$ 24,233,438	\$ 27,527,439	\$ 27,359,783

(Note 1) Annualized Depreciation Expense reflect the Commission approved depreciation rates in Docket No 43695, 45524, and 47527.

Southwestern Public Service Company

Annualized Depreciation Expense Impact
For Year ended June 30, 2017, March 31, 2019, and June 30, 2019

Annualized Depreciation										
Functional Class	Proposed Rates			Change						
	6/30/2017	3/31/2019	6/30/2019	Change Due to Change in Actual Depreciable Plant 7/1/2017 - 3/31/2019	Change Due to Change in Actual Depreciable Plant 4/1/2019 - 6/30/2019	Change Due to Change in Depreciation and Amortization Rates at 6/30/2019	Total Change			
	[H]	[I]	[J]	[K] = [F] - [E]	[L] = [G] - [F]	[M] = [J] - [G]	[N] = [K] + [L] + [M]			
<u>Depreciation</u>										
Steam Production	\$ 88,498,194	\$ 88,149,858	\$ 89,548,981	\$ 1,073,577	\$ 691,435	\$ 40,025,001	\$ 41,790,013			
Other Production	7,710,514	7,649,698	35,273,945	(59,339)	23,052,705	5,191,815	28,185,180			
Electric Transmission	71,964,388	82,963,582	88,258,891	8,969,894	4,227,372	16,665,104	29,862,370			
Electric Distribution - New Mexico Assets	12,481,284	13,944,223	14,223,630	1,343,596	256,766	1,121,347	2,721,710			
Electric Distribution - Texas Assets	23,312,447	25,465,086	26,024,609	1,975,655	497,560	1,932,022	4,405,237			
Electric General	27,604,439	31,417,524	33,134,443	3,935,329	1,716,454	(818,794)	4,832,989			
Total Depreciation Change	\$ 231,571,266	\$ 249,589,971	\$ 286,464,499	\$ 17,238,713	\$ 30,442,291	\$ 64,116,494	\$ 111,797,498			
<u>Amortization</u>										
Electric Intangibles	\$ 22,075,292	\$ 25,022,933	\$ 24,823,637	\$ 2,946,811	\$ (199,302)	\$ 2,310	\$ 2,749,819			
Steam Production	609,108	610,230	610,230	888	-	142,301	143,189			
Other Production	-	-	-	-	-	-	-			
Electric Transmission	1,601,901	1,934,893	1,956,614	326,700	21,311	36,975	384,986			
Electric Distribution - New Mexico Assets	87,991	101,317	110,644	13,115	9,180	1,749	24,044			
Electric Distribution - Texas Assets	33,747	40,339	41,513	6,487	1,156	656	8,299			
Electric General	809	809	809	-	-	(327)	(327)			
Total Amortization Change	\$ 24,408,849	\$ 27,710,521	\$ 27,543,448	\$ 3,294,001	\$ (167,655)	\$ 183,665	\$ 3,310,010			

(Note 1) Annualized Depreciation Expense re

Southwestern Public Service Company
Calculation to Unblend Depreciation Reserve
June 30, 2019

Total Company by Functional Class

Line No.		Financial (FIN)	Jurisdiction (IUR)			Notes
			Texas	New Mexico	FERC	
		(A)	(B)	(C)	(D)	
1	Electric Steam Production Plant Total					
2	Jurisdictional Percent (1)		54.52%	23.53%	21.95%	
3	Total Company Accumulated Depreciation	1,142,415,999	1,019,110,031	1,218,422,756	1,367,214,242	Each Jurisdiction represents Total Company
4	Accumulated Depreciation * Juris %	1,142,415,999	555,618,789	286,704,622	300,092,588	Sum of B, C, D = A
5	Adjustment (Gross-up)	(0)	(0)	(0)	(0)	(0) Allocate Difference Between Financial Lines 3 and 4
6	Adjustment (Gross-up)	(0)	(0)	(0)	(0)	(0)
7	Jurisdictional Accumulated Depreciation Adjusted	1,142,415,999	555,618,789	286,704,622	300,092,588	Sum of B, C, D = A
8	Total Company Accumulated Depreciation Adjusted (Gross-up)		1,019,110,031	1,218,422,756	1,367,214,242	Gross up so each Jurisdiction represents Total Company. Lines 3 + 6 = Line 8
9	Unblended Adjustment		(123,305,968)	76,006,757	224,798,243	Unblended Adjustment = Jurisdiction Total Company Accumulated Depreciation Adjusted (Line 8, Col. B, C, or D) - Financial Accumulated Depreciation [Col. A, Line 7]
10	Electric Other Production Plant Total					
11	Jurisdictional Percent (1)		54.52%	23.53%	21.95%	
12	Total Company Accumulated Depreciation	90,316,904	83,747,700	94,645,566	101,993,691	Each Jurisdiction represents Total Company
13	Accumulated Depreciation * Juris %	90,316,904	45,659,246	22,270,859	22,386,799	Sum of B, C, D = A
14	Adjustment (Gross-up)	0	0	0	0	0 Allocate Difference Between Financial Lines 12 and 13
15	Adjustment (Gross-up)	0	0	0	0	0
16	Total Company Adjusted	90,316,904	45,659,246	22,270,859	22,386,799	Sum of B, C, D = A
17	Total Company Adjusted (Gross-up)		83,747,700	94,645,566	101,993,691	Gross up so each Jurisdiction represents Total Company. Lines 12 + 15 = Line 17
18	Unblended Adjustment		(6,569,204)	4,328,662	11,676,786	Unblended Adjustment = Jurisdiction Total Company Accumulated Depreciation Adjusted (Line 17, Col. B, C, or D) - Financial Accumulated Depreciation [Col. A, Line 16]

Southwestern Public Service Company
Calculation to Unblend Depreciation Reserve
June 30, 2019

Total Company by Functional Class

Line No.		Financial (FIN)	Jurisdiction (JUR)			Notes
			Texas	New Mexico	FERC	
19	Electric Transmission Plant Total					
20						
21	Jurisdictional Percent (1)		44.62%	20.49%	34.89%	
22	Total Company Accumulated Depreciation	464,505,247	494,522,715	514,824,348	396,553,268	Each Jurisdiction represents Total Company
23	Accumulated Depreciation * Juris % Adjustment	0	220,664,442	105,498,835	138,341,970	Sum of B, C, D = A
24	Adjustment (Gross-up)	0	0	0	0	Allocate Difference Between Financial Lines 21 and 22
25	Total Company Adjusted	464,505,247	220,664,442	105,498,835	138,341,970	Sum of B, C, D = A
26	Total Company Adjusted (Gross-up)		494,522,715	514,824,348	396,553,268	Gross up so each Jurisdiction represents Total Company. Lines 21 + 24 = Line 26
27	Unblended Adjustment		30,017,468	50,319,101	(67,951,979)	Unblended Adjustment = Jurisdiction Total Company Accumulated Depreciation Adjusted (Line 26, Col. B, C, or D) - Financial Accumulated Depreciation [Col. A, Line 25]
28	Electric Distribution Plant Total (2)					
29						
30	Total Company Accumulated Depreciation	376,057,102	376,057,102	376,057,102	376,057,102	Each Jurisdiction represents Total Company
31	Electric General Plant Total					
32						
33	Jurisdictional Percent (1)		58.50%	24.81%	16.68%	
34	Total Company Accumulated Depreciation	204,804,108	205,443,319	191,813,567	218,179,139	Each Jurisdiction represents Total Company
35	Accumulated Depreciation * Juris % Adjustment	204,185,636	120,191,738	47,598,345	36,395,553	Sum of B, C, D = A
36	Adjustment (Gross-up)	618,473	226,324	(59,142)	451,291	Allocate Difference Between Financial Lines 33 and 34
37	Total Company Adjusted	204,804,109	386,856	(238,331)	2,705,335	Sum of B, C, D = A
38	Total Company Adjusted (Gross-up)	1	120,418,062	47,539,203	36,846,844	Gross up so each Jurisdiction represents Total Company. Lines 33 + 36 = Line 38
39	Unblended Adjustment		205,830,174	191,575,236	220,884,475	Unblended Adjustment = Jurisdiction Total Company Accumulated Depreciation Adjusted (Line 38, Col. B, C, or D) - Financial Accumulated Depreciation [Col. A, Line 37]
40	Electric Intangible Plant Total					
41						
42	Jurisdictional Percent (1)		58.50%	24.81%	16.68%	
43	Total Company Accumulated Depreciation	117,397,634	117,397,634	117,397,634	117,397,634	Sum of B, C, D = A
44	Accumulated Depreciation * Juris % Adjustment	117,397,634	68,681,842	29,132,105	19,583,686	Sum of B, C, D = A
45	Adjustment (Gross-up)	(0)	(0)	(0)	(0)	Allocate Difference Between Financial Lines 42 and 43
46	Total Company Adjusted	117,397,634	68,681,842	29,132,105	19,583,686	Sum of B, C, D = A
47	Total Company Adjusted (Gross-up)	(0)	117,397,634	117,397,634	117,397,634	Gross up so each Jurisdiction represents Total Company. Lines 42 + 45 = Line 47
48	Unblended Adjustment		-	-	-	Unblended Adjustment = Jurisdiction Total Company Accumulated Depreciation Adjusted (Line 47, Col. B, C, or D) - Financial Accumulated Depreciation [Col. A, Line 46]

Southwestern Public Service Company
Calculation to Unblend Depreciation Reserve
June 30, 2019

Total Company by Functional Class

Line No.		Jurisdiction (JUR)				Notes
		Financial (FIN)	Texas	New Mexico	FERC	
49	Total Company - Utility					
50						
51						
52						
53						
54						
55						
56						
57						
58						
59						
60						
61						
62						

	Jurisdictional Percent	N/A	N/A	N/A	N/A	
	Total Company Accumulated Depreciation	2,395,496,994	2,296,278,500	2,513,160,974	2,577,395,075	Each Jurisdiction represents Total Company
	Less: Electric Distribution Accumulated Depreciation	(376,057,102)	(376,057,102)	(376,057,102)	(376,057,102)	
	Total Co. Accumulated Depreciation excluding Distribution	2,019,439,892	1,920,221,398	2,137,103,872	2,201,337,973	Each Jurisdiction represents Total Company
	Total JUR Accumulated Depreciation	2,018,821,419	1,010,816,056	491,204,766	516,800,596	Sum of B, C, D = A
	Jurisdictional Accumulated Depreciation as % of Total	N/A	N/A	N/A	N/A	
	Adjustment	618,473	226,325	(59,142)	451,291	Allocate Difference Between Financial Lines 53 and 55
	Adjustment (Gross-up)		386,856	(238,331)	2,705,336	
	Total Company Adjusted	2,019,439,893	1,011,042,381	491,145,625	517,251,887	Sum of B, C, D = A
	Total Company Adjusted (Gross-up)		1,920,608,254	2,136,865,541	2,204,043,309	Gross up so each Jurisdiction represents Total Company. Lines 53 + 57 = Line 59
	Unblended Adjustment		(98,831,639)	117,425,648	184,603,416	Unblended Adjustment = Jurisdiction Total Company Accumulated Depreciation Adjusted (Line 59, Col. B, C, or D) - Financial Accumulated Depreciation [Col. A, Line 58]

(1) Jurisdictional Percent used in forecast system to calculate unblending adjustment. It does not match the final jurisdictional allocators calculated for the rate case.

(2) Electric Distribution Accumulated Depreciation is not subject to an unblending adjustment since all assets are directly assigned to each jurisdiction.

Southwestern Public Service Company

Unblended ADIT Adjustment - Total Plant
Ending June 30, 2019

Unblended Book Reserve Impact on DFIT					
Line No.	Financial	Texas	New Mexico	FERC	
1	3,242,645,483	3,334,323,080	3,144,901,647	3,068,897,242	
2	108,884,394	111,685,273	106,460,678	103,485,878	
3	3,351,529,877	3,446,008,353	3,251,362,325	3,172,383,121	
4	3.25%	3.24%	3.27%	3.26%	
5					
6	1,129,228,490	1,148,887,546	1,106,885,513	1,090,574,280	Total
7					
8		564,854,867	248,561,130	315,812,494	1,129,228,490
9		576,173,786	243,689,238	309,365,466	1,129,228,490
10		(11,318,919)	4,871,891	6,447,027	0
11		0	0	0	0
12		576,173,786	243,689,238	309,365,466	1,129,228,490
13					
14		11,318,919	(4,871,891)	(6,447,027)	
15					
16	100.000%	50.021%	22.012%	27.967%	
17					
18					
19		0	0	0	
20		1,148,887,546	1,106,885,513	1,090,574,280	
21					
22		576,173,786	243,689,238	309,365,466	1,129,228,490
23					
24		19,659,055	(22,342,977)	(38,654,210)	

Southwestern Public Service Company
Capital Additions
April 1, 2019 through June 30, 2019
Summary by Asset Class

(A) Asset Class	(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)
Production	\$ 705,869,569.28	\$ 1,368,256.86	\$ -	\$ 1,368,256.86
Transmission	182,739,671.03	560,616.45	-	560,616.45
Distribution	35,562,894.79	43,475.33	792.43	44,267.76
General	14,644,642.16	234,163.83	2,042.20	236,206.03
Software	1,980,265.81	285,739.34	-	285,739.34
Total	\$ 940,797,043.07	\$ 2,492,251.81	\$ 2,834.63	\$ 2,495,086.44

Southwestern Public Service Company
Capital Additions
April 1, 2019 through June 30, 2019
Summary by Witness

(D)	(D)	(E-i)	(E-ii)	(E-iii)
Witness	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)
Lytal - Production	\$ 733,589,401.05	\$ 1,373,130.99	\$ -	\$ 1,373,130.99
Cooley - Transmission	158,680,197.51	584,285.74	-	584,285.74
Meeks - Distribution	39,049,449.74	63,497.66	2,834.63	66,332.29
Harkness - Electric General & Software	8,161,049.35	468,770.10	-	468,770.10
Bick - Building	9,606.89	403.25	-	403.25
Brown - Physical Security	1,307,338.53	2,164.07	-	2,164.07
Total	\$ 940,797,043.07	\$ 2,492,251.81	\$ 2,834.63	\$ 2,495,086.44

Southwestern Public Service Company
Energy Supply Capital Additions

(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)
1	Electric Transmission	Lyril	Reliability and Performance Enhancement	\$ 12,708,779.20	\$ 3,943.61	\$ -	\$ 3,943.61
2	Electric Transmission	Lyril	Reliability and Performance Enhancement	14,820,698.75	-	-	-
3	Electric Transmission	Lyril	Reliability and Performance Enhancement	63,075.36	-	-	-
4	Transmission			\$ 27,592,553.31	\$ 3,943.61	\$ -	\$ 3,943.61
5	Electric Production	Lyril	Reliability and Performance Enhancement	\$ 22,921.29	\$ -	\$ -	\$ -
6	Electric Production	Lyril	Reliability and Performance Enhancement	9,451.22	6,504.00	-	6,504.00
7	Electric Production	Lyril	Reliability and Performance Enhancement	140.50	-	-	-
8	Electric Production	Lyril	Reliability and Performance Enhancement	(139.37)	-	-	-

Hale Wind Project - Transmission Serving Generation - This portion of the Hale Wind Project is for the purchase and installation of the materials and equipment related to the 230kV transmission line to support the Hale Wind Project.
Hale Wind Project - Sub Serving Generation - This portion of the Hale Wind Project is for the purchase and installation of the materials and equipment related to the Sub Station supporting the Hale Wind Project.

Hale Wind Project - Land Purchase - This portion of the Hale Wind Project contains the funding for the Land purchase for the Substation Building.

Cunningham - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Cunningham (CHC) natural gas generating station.

Quay County Unit 1 - Replace Starting Diesel Radiator - This project includes the replacement of the original radiator installed on the starting diesel package. A larger capacity radiator and fan assembly will be installed onto the current radiator stand. Fan controls will remain unchanged. On April 12, 2018, the town of Tucumcari, including Quay County Station, went black. The plant operated as designed and the combustion turbine was in the startup process until the unit tripped. The cause of the trip was due to the starting diesel overheating on high jacket water temperature. Historical data revealed that the jacket water temperature reached 215F. Ambient temperature during this event was 91F.

Design maximum coolant temperature at the top tank of the radiator is 200F. The manufacturer recommended coolant temperature range is 160F to 195F. Water sprays were installed on the radiator to help with cooling, but this system is active only during the summer and cannot be considered a permanent solution. The water supply was shut off to prevent freezing in the line. There were freezing temperatures present during the days leading up to and after April 12th. The use of the water sprays has detrimental effects on the fan motor and may eventually lead to fouling of the radiator core; lowering the radiator's overall heat transfer coefficient. The radiator is also located on the west side of the building in a dead air space. The turbine exhaust stack is to the South, main building to the East, and the EDG room to the North. The radiator and fan assembly needs to be replaced to ensure that the plant is able to operate reliably when called upon or during a black plant situation. Not replacing the radiator can lead to engine damage and another unit trip.

Jones - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Jones (JON) natural gas generating station.

Gaines County - This project was to build a new Generation to service the Southeast New Mexico Oil Patch. The project was put on hold. This change was a correcting entry.

Southwestern Public Service Company

Energy Supply Capital Additions

(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) Project Description
9	Electric Production	Lytal	Reliability and Performance Enhancement	66,164.55	-	-	-	Maddox - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Maddox (MAD) natural gas generating station.
10	Electric Production	Lytal	Reliability and Performance Enhancement	(5,914.56)	-	-	-	Plant X - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Plant X (PLX) natural gas generating station.
11	Electric Production	Lytal	Reliability and Performance Enhancement	21,375.85	-	-	-	Plant X - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Plant X (PLX) natural gas generating station.
12	Electric Production	Lytal	Reliability and Performance Enhancement	209,096.56	-	-	-	Plant X - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Plant X (PLX) natural gas generating station.
13	Electric Production	Lytal	Reliability and Performance Enhancement	63,212.49	780.77	-	780.77	Cunningham Unit 0 - Refurbish Plant Bathroom - This project is to refurbish the 1st Floor Men's & Women's restrooms and the 2nd Floor Men's restroom. This work will include: retille floor, tile and paint walls, replace toilet and stall, replace urinal, install hand dryer, replace vanity, install new lighting, install ventilation fans and fixtures and fittings. Remove first aid room on 1st floor and extend the womens restroom into a womens locker room adding an extra toilet, sink, and a shower. These restrooms have not been updated or equipment replaced in over 30 years. Every major fixture requires repair on a regular basis due to aging components and the partitions, tiles, and grout are falling.
14	Electric Production	Lytal	Reliability and Performance Enhancement	128,507.58	-	-	-	Cunningham Unit 0 - Replace Waterwell Pump Motor - This project will replace 2-3 water well pumps and motors on the water gathering system, depending on amount of discovery work. Wells will be determined by level of importance and need for repairs. This work may include some or all of the following, depending on condition: replace pump ; replace motor ; replace casing ; bail well till clean; refill gravel pack after bailing. The water well pumps and motors have been in service for many years, the shafts have been machined multiple times and the motors have been exposed to pump vibration which has caused some irreparable damage to the motors. Cunningham is also seeing a growing problem with sand erosion on pump systems due to casing damage on some wells. These pump systems will be replaced with like turbine style systems due to the high probability of failure due to lightning strikes experienced with previous submersible systems.
15	Electric Production	Lytal	Reliability and Performance Enhancement	9,459.68	245.11	-	245.11	Cunningham - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Cunningham (CHC) natural gas generating station.

Southwestern Public Service Company

Energy Supply Capital Additions

(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) Project Description
16	Electric Production	Lytal	Environmental Compliance	(596.94)	-	-	-	Harrington Unit 3 - Rebag Partial - This project is to rebag 5 compartments of the baghouse. Harrington's filter bags have lasted between 6 to 7 years. Filter bags become more difficult to clean as they age resulting in higher baghouse pressure drop, more ID fan horsepower, boiler load limits, bag failures and opacity problems. Compartments also fill up with up to 10 to 12 inches of fly-ash due to bleed-through from pin-holes on filter bags. With increased bag failures, higher baghouse pressure drops become more prevalent when Unit is at full load. When multiple compartments have reached this point, a forced derate occurs to protect the fans and boiler and this affects unit's reliability.
17	Electric Production	Lytal	Reliability and Performance Enhancement	19,766.45	7,590.42	-	7,590.42	Harrington - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Harrington (HAR) coal generating station.
18	Electric Production	Lytal	Reliability and Performance Enhancement	4.95	-	-	-	Harrington - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Harrington (HAR) coal generating station.
19	Electric Production	Lytal	Reliability and Performance Enhancement	3,914.58	-	-	-	Harrington - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Harrington (HAR) coal generating station.
20	Electric Production	Lytal	Reliability and Performance Enhancement	13,230.21	-	-	-	Harrington - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Harrington (HAR) coal generating station.
21	Electric Production	Lytal	Reliability and Performance Enhancement	71.98	71.00	-	71.00	Harrington - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Harrington (HAR) coal generating station.
22	Electric Production	Lytal	Reliability and Performance Enhancement	88,924.21	-	-	-	Harrington - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Harrington (HAR) coal generating station.
23	Electric Production	Lytal	Reliability and Performance Enhancement	376,054.05	17,200.39	-	17,200.39	Harrington - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Harrington (HAR) coal generating station.

Southwestern Public Service Company

Energy Supply Capital Additions

(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) Project Description
24	Electric Production	Lytal	Reliability and Performance Enhancement	282,082.47	8,361.16		8,361.16	Harrington Unit 1 - Replace Generator Breaker FK10 - This project is the complete replacement of the 230kV generator breaker FK10. The replacement is a SF6 breaker (or equivalent) containing a reduced number of interrupting chambers per pole, which will result in considerable simplification of circuit breaker maintenance design. This design reduces the number of parts and seals required, allowing longer operational periods without reconditioning. The breaker being replaced was manufactured in 1973, the General Electric Oil Blast Circuit Breaker is original equipment and has been in operation for more than 40 years. Historically, this breaker cycled on average of 10-15 times per year. However, since the entrance into the SPP market, it experienced forty one cycles in 2014, eighteen in 2015, and twenty six cycles in 2016. This operational change significantly increases the wear on the breaker. The large quantity of oil (3 tanks of 1875 gallons per tank) requires adequate monitoring that leads to higher maintenance costs. Also, pneumatic and hydraulic issues that may lead to failure on the breaker has a higher potential for environmental and safety hazards.
25	Electric Production	Lytal	Reliability and Performance Enhancement	203,687.04				Harrington Unit 3 - Rewind West Induced Draft (ID) Fan Motor - This project is to rewind the Harrington Unit 3 West ID Fan Motor. On 4/23/2019 the H3 West ID Fan Motor experienced an electrical short to ground which caused 6900 volt "B" bus to trip. Plant electricians Meggered the motor, which meggered bad. The stator windings were visually inspected which confirmed the stator winding insulation is compromised. The extent of damage is beyond the repair capabilities of the plant, and the motor will need to be sent to a regional motor repair shop to be rewound in order to guarantee the repair. Currently the Unit is de-rated to half the load capacity due to only having one fan operational.
26	Electric Production	Lytal	Reliability and Performance Enhancement	31.38				Tolk - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Tolk (TOL) coal generating station.
27	Electric Production	Lytal	Reliability and Performance Enhancement	(1,964.16)				Tolk - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Tolk (TOL) coal generating station.
28	Electric Production	Lytal	Reliability and Performance Enhancement	418.83	798.65		798.65	Tolk - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Tolk (TOL) coal generating station.
29	Electric Production	Lytal	Reliability and Performance Enhancement	232.62				Tolk - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Tolk (TOL) coal generating station.
30	Electric Production	Lytal	Reliability and Performance Enhancement	(14.34)				Tolk - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Tolk (TOL) coal generating station.

Southwestern Public Service Company

Energy Supply Capital Additions

(A) Line No.	(B) Asset Class	(C) Witness 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) Project Description
31	Electric Production	Lyal Reliability and Performance Enhancement	214,115.34	8,393.07	-	8,393.07	Tolk - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Tolk (TOL) coal generating station.
32	Electric Production	Lyal Reliability and Performance Enhancement	2,565.03	-	-	-	Nichols - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Nichols (NIC) natural gas generating station.
33	Electric Production	Lyal Reliability and Performance Enhancement	177,908.40	8,489.94	-	8,489.94	Nichols - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Nichols (NIC) natural gas generating station.
34	Electric Production	Lyal Reliability and Performance Enhancement	100,124.22	3,518.08	-	3,518.08	Nichols Unit 1 - Replace Station Battery - This project includes removal of the existing 1331 Amp-hr at 8 hr rate 60 cell lead calcium Station Battery and the installation of a new equivalent Calcium Flat Plate battery with copper inserted posts and all necessary install accessories. This is necessary due to the latest battery inspection by TR&C revealed a strong decline in the health of the Station Battery. Declining condition includes post pop, positive plate growth/discoloration & cracking, sediment buildup, and extreme sulfation. The battery is using a lot of water and has extremely high float charging current, which heats the battery beyond what it can dissipate which leads to thermal runaway, a very dangerous and damaging phenomenon. The battery is unsuitable for service, and presents a hazard if kept on charge.
35	Electric Production	Lyal Reliability and Performance Enhancement	(554.30)	-	-	-	Jones - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Jones (JON) natural gas generating station.
36	Electric Production	Lyal Reliability and Performance Enhancement	314,933.49	12,101.02	-	12,101.02	Jones - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Jones (JON) natural gas generating station.
37	Electric Production	Lyal Reliability and Performance Enhancement	487,200.74	14,117.80	-	14,117.80	Jones Unit 2 - Rewind Normal Source Transformer - The current normal source transformer has failed due to an internal fault. Due to costs and long lead times, rewinding the existing transformer is the best option. The transformer is needed to provide auxiliary power to Jones 2 when it is on-line. Currently the unit is operating on the startup transformer. This results in operational issues when Jones Unit 1 is cycled, since the startup transformer does not have sufficient load capacity to run both Jones 1 & 2. This results in having to load derate Jones 2 during cycling operations.
38	Electric Production	Lyal Reliability and Performance Enhancement	54.93	-	-	-	Harrington - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Harrington (HAR) coal generating station.
39	Electric Production	Lyal Reliability and Performance Enhancement	430.19	-	-	-	Harrington - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Harrington (HAR) coal generating station.

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(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) Project Description
40	Electric Production	Lytal	Reliability and Performance Enhancement	10,105.36	490.20	-	490.20	Maddox - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Maddox (MAD) natural gas generating station.
41	Electric Production	Lytal	Reliability and Performance Enhancement	783.90	720.96	-	720.96	Jones - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Jones (JON) natural gas generating station.
42	Electric Production	Lytal	Reliability and Performance Enhancement	13,603.10	-	-	-	Tolk - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Tolk (TOL) coal generating station.
43	Electric Production	Lytal	Reliability and Performance Enhancement	1,025.65	720.96	-	720.96	Jones - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Jones (JON) natural gas generating station.
44	Electric Production	Lytal	Reliability and Performance Enhancement	4,958,719.88	22,760.46	-	22,760.46	Cunningham Unit 3 - Rewind Generator - This project is to rewind the generator stator including stator coils, end winding blocking and bracing support systems, stator slot wedges and filler and perform generator hi pot test with successful results after Stator rewind as per recommendation from Technical Resources and Compliance (TRaC) on the 13.8 KV, 141 MVA rated generator. When the rotor is out SPS will install new generator cooling high flow blower blades on the rotor. Replacement of the blower requires new blower hub, stationary blower shroud, assembly, rotating blower blades as well as modifications to the generator end box. High voltage corona damage was found and repaired during November-December 2017. The existing generator has a known history of failures.
45	Electric Production	Lytal	Reliability and Performance Enhancement	1,792,491.55	48,716.49	-	48,716.49	Cunningham Unit 3 - Replace Compressor - This project is to replace the Cunningham Unit 3 rotating and stationary blades (diaphragms) and inlet guide vanes (IGVs) with new parts. The turbine rotor will be shipped to a rotor shop to have new blades installed, non destruction testing inspections, and a low speed balance will be performed before returning to Cunningham. Reassembly will include machine assembly, machine train alignment, high speed balance, and performance testing. A thorough inspection of the compressor inlet revealed a missing piece of metal from the inlet expansion joint backer bar at the top left of the inlet plenum. Siemens was brought in to borescope the entire machine. They discovered all 19 rotating and 19 stationary rows of compressor blades have significant damage. The turbine and combustor section do not have significant damage.
46	Electric Production	Lytal	Reliability and Performance Enhancement	29,608.49	1,995.78	-	1,995.78	Cunningham - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Cunningham (CHC) natural gas generating station.
47	Electric Production	Lytal	Reliability and Performance Enhancement	672,111,268.86	662,330.71	-	662,330.71	Hale Wind Project - Electric Production - This portion of the Hale Wind Project contains the funding for the purchase of the wind turbines and all costs associated with the installation/erection of these turbines

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48	Electric Production	Lytal Reliability and Performance Enhancement	557,458.75	19,107.53	-	19,107.53	Maddox Unit 1 -Replace Cooling Tower Fans & Gearboxes - This project is to replace all 5 Cooling tower mechanicals including motors, motor support frames, fans, fan blades, gearboxes, and drive shafts as well as associated hardware. Also, replace the fan shrouds for the two most southern cells. These motors are all exhibiting signs of degradation, most noticeably excessive heat and vibration issues. Maintaining adequate cooling tower draft is essential in minimizing back pressure losses and supplying adequate cooling water to the auxiliary equipment. The gearbox supports have some deterioration, due to corrosion, to the point where replacement is justifiable. The fan blades have begun to delaminate at the tip which allows water to penetrate the fans and cause them to become unbalanced.
49	Electric Production	Lytal Reliability and Performance Enhancement	33,644.48	1,015.35	-	1,015.35	Maddox - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Maddox (MAD) natural gas generating station.
50	Electric Production	Lytal Reliability and Performance Enhancement	375,337.67	9,762.69	-	9,762.69	Maddox - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Maddox (MAD) natural gas generating station.
51	Electric Production	Lytal Reliability and Performance Enhancement	0.16	-	-	-	Plant X - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Plant X (PLX) natural gas generating station.
52	Electric Production	Lytal Reliability and Performance Enhancement	231,346.03	43,019.74	-	43,019.74	Plant X Unit 4 - Replace Economizer Header - This project is to replace the economizer inlet header including the terminal tubes in the boiler for Unit 4. The new economizer should be designed to accommodate cycling operation. Numerous economizer tube failures and leaks have caused unplanned outages. Leaks can be expected to increase in occurrence because of unit cycling. An inspection of the economizer header was completed in October of 2017. This inspection found thinning on the grid closest to the bore holes. Flow accelerated corrosion (FAC) was also noted during this inspection. Technical Resources and Compliance (TRaC) recommends that the header be replaced during the next major overhaul.
53	Electric Production	Lytal Reliability and Performance Enhancement	2,111,648.41	105,839.37	-	105,839.37	Plant X Unit 4 - Replace Hot-Reheat Seamed Piping - This project is to replace the hot reheat (HRH) high energy (HE) seamed piping on Plant X Unit 4. This will require asbestos abatement of the line, the removal of all seamed pipe and installation of new seamless pipe including a full piping analysis and possible replacement of hangers. The HRH line has been verified to be seamed pipe. This project is part of a corporate initiative to replace HE seamed piping. An analysis done by Reliability Services and Overhaul Management (RSOM) in 2015, concluded that all HE seamed piping in the region should be replaced due to the probability of failure. The reheat steam line was originally built with seamed pipe. Acoustic emissions (AE) testing has been performed on this pipe and has not shown any evidence of cracking. However, this type of failure could be catastrophic resulting in significant property damage, outage time and danger to personnel.

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54	Electric Production	Lytal Reliability and Performance Enhancement	54.05	248.90	-	248.90	Plant X - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Plant X (PLX) natural gas generating station. Plant X Unit 4 - Upgrade Distributed Control System (DCS) Operator Station and CP - This project is to upgrade two Application Workstations, three Workstation Processors, two domain servers, three remote operator stations, a historian server and a repository server as well as upgrade the software version and licensing to the latest Foxboro version. A DCS Upgrade committee composed of Technical Resources and Compliance (TRaC), Engineering and Construction (E&C) and Plant Engineers (PETS) have developed a fleet-wide DCS Lifecycle Management plan to replace the DCS hardware and software. The hardware and software are obsolete. The committee is tracking the lifecycle of the DCS software and hardware components throughout the fleet and coordinating the upgrade schedule with the current plant outage schedules. The schedule reflects the realistic occurrence of a major failure that could create unit trips and extended down time. Xcel's Plant Process Network Security Policy EPR 4.200 Rev 2, Section 4.13 states that hardware and software systems should be current to allow patches for antivirus, and malware updates that are required to maintain cyber security protection as defined by the latest NERC Critical Infrastructure Protection (CIP) standard.
55	Electric Production	Lytal Reliability and Performance Enhancement	517,502.43	15,318.57	-	15,318.57	Plant X - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Plant X (PLX) natural gas generating station.
56	Electric Production	Lytal Reliability and Performance Enhancement	86,253.72	12,130.91	-	12,130.91	Plant X - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Plant X (PLX) natural gas generating station.
57	Electric Production	Lytal Reliability and Performance Enhancement	111,685.12	5,661.03	-	5,661.03	Plant X - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Plant X (PLX) natural gas generating station.
58	Electric Production	Lytal Reliability and Performance Enhancement	45,216.10	9,218.34	-	9,218.34	Plant X - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Plant X (PLX) natural gas generating station.
59	Electric Production	Lytal Reliability and Performance Enhancement	76,196.66	7,503.36	-	7,503.36	Plant X - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Plant X (PLX) natural gas generating station.

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(A) Line No.	(B) Asset Class	(C) Witness 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) Project Description
							Harrington Unit 1 - Replace Foxboro Field Bus Modules (FBMs) - This project is to replace Foxboro 100 series FBMs with 200 series FBMs. In addition to the FBMs all Foxcom smart transmitters will be replaced with Hart Protocol smart transmitters and new smart positioners will be installed on boiler air dampers. A Distributed Control System (DCS) Upgrade committee composed of Technical Resources and Compliance (TRaC), Engineering and Construction (E&C) and Plant Engineers (PETS) have developed a fleet-wide DCS Lifecycle Management plan to replace the DCS hardware and software. The hardware and software are well beyond the obsolete state. The committee is tracking the lifecycle of the DCS software and hardware components throughout the fleet and coordinating the upgrade schedule with the current plant outage schedules. The schedule reflects the realistic occurrence of a major failure that could create unit trips and extended down time.
60	Electric Production	Lyal Reliability and Performance Enhancement	1,351,127.85	33,363.73	-	33,363.73	Harrington Unit 2 - Rebag Partial - This project will remove and replace the filter bags in 7 compartments. Over the last 30+ years, Harrington's filter bags have lasted between 6 and 7 years.
61	Electric Production	Lyal Environmental Compliance	206,007.17	-	-	-	Harrington Unit 1 - Replace Cooling Tower Mechanicals Phase 3 - This project will replace the cooling tower mechanical components including the fan blades, gear boxes, shafts, and structural skids. The scope also includes replacing the control boxes and motor lead boxes. This cooling tower has begun to experience many failures to the mechanicals within the last couple of years including showing signs of rusted skid structures, poor fan blade condition, leaking gear boxes with rusted outer shells, and rusted hub assemblies. The control boxes are deteriorating and becoming damaged by the wind. Many of the latches do not work, and the doors do not close properly allowing mist/water to enter, which is corroding the electrical components.
62	Electric Production	Lyal Reliability and Performance Enhancement	344,370.54	3,540.52	-	3,540.52	Harrington Unit 1 - Replace Drag Chain - The scope of this project includes complete Replacement of the 22 mm Chain for the Drag Chain Conveyor, light bars and conveying wear strips as well as also replacing the carbon steel dry side conveyor pan. The conveyor chain wears out in three years of constant use. As the chain wears it reduces the layer of case hardening which protects the chain from the harsh environment in the conveyor. The dry side structure is corroded and leaks are making a wet environment in the coal mill room, which can cause a slipping hazard.
63	Electric Production	Lyal Reliability and Performance Enhancement	168,280.18	9,279.48	-	9,279.48	Harrington Unit 3 - Replace Cooling Tower Mechanicals Phase 2 - This project will replace the cooling tower mechanical components including the fan blades, gear boxes, shafts, and structural skids, control boxes and motor lead boxes. This cooling tower has begun to experience many failures to the mechanicals within the last couple of years and is showing signs of rusted skid structures, poor fan blade condition, leaking gear boxes with rusted outer shells, and rusted hub assemblies. The control boxes are deteriorating and becoming damaged by the wind. Many of the latches do not work, and the doors do not close properly allowing mist/water to enter, which is corroding the electrical components.
64	Electric Production	Lyal Reliability and Performance Enhancement	436,435.88	75.49	-	75.49	

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65	Electric Production	Lyrat	Reliability and Performance Enhancement	446,018.39	4,021.09	-	4,021.09	Harrington Unit 1 - Upgrade Distributed Control System (DCS) Operator Station - This project will upgrade two Application Workstations, five Workstation Processors, two domain servers, a historian & repository server and three remote operator stations as well as upgrade the software version and licensing to the latest Foxboro version. A DCS Upgrade committee composed of Technical Resources and Compliance (TRaC), Engineering and Construction (E&C) and Plant Engineers (PETS) have developed a fleet-wide DCS Lifecycle Management plan to replace the DCS hardware and software. The hardware and software are well beyond the obsolete state. The committee is tracking the lifecycle of the DCS software and hardware components throughout the fleet and coordinating the upgrade schedule with the current plant outage schedules. The schedule reflects the realistic occurrence of a major failure that could create unit trips and extended down time. Xcel Energy's Plant Process Network Security Policy EPR 4.200 Rev 2, Section 4.13 states that hardware and software systems should be current to allow patches for antivirus, and malware updates that are required to maintain cyber security protection as defined by the latest NERC Critical Infrastructure Protection (CIP) standard.
66	Electric Production	Lyrat	Reliability and Performance Enhancement	23,767.01	4,530.42	-	4,530.42	Harrington - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Harrington (HAR) coal generating station.
67	Electric Production	Lyrat	Reliability and Performance Enhancement	630,955.56	9,726.12	-	9,726.12	Harrington Unit 1 - Deaerator (DA) Heater Vessel - This project is to replace the Heater Portion of the Deaerator. The heater vessel on top of the storage tank is a 48" diameter vessel that mixes heater drain water with extraction steam. The project will include Abatement, removal of old vessel and piping attachments, new pressure vessel, new nozzles, and installation labor cost. The current DA Heater has severe erosion on the pressure vessel wall. This erosion has created several areas of the vessel that are well below minimum wall thickness. The DA Heater is located within the boiler building which poses a safety risk for those inside.
68	Electric Production	Lyrat	Reliability and Performance Enhancement	12,869.60	1,240.29	-	1,240.29	Harrington - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Harrington (HAR) coal generating station.
69	Electric Production	Lyrat	Reliability and Performance Enhancement	8,412.85	2,480.57	-	2,480.57	Harrington - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Harrington (HAR) coal generating station.

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(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)
							Project Description
70	Electric Production	Lytal	Reliability and Performance Enhancement	86,602.05	4,731.78	-	4,731.78
							Harrington Unit 3 - Replace Cooling Tower Pumphouse Roof - This project is to remove and replace the current roof. The scope of work for the project includes: Mechanically fasten Premium Glasbase into lightweight concrete per manufacturer wind uplift guidelines, install new wood nailers on parapet wall, install wood nailers on exhaust fans, adhere 1/2" gypsum Securock to deck, install one ply of 80 mil base sheet in cold-processed adhesive, install 115 mil smooth StressPly EUV smooth membrane in cold-processed adhesive. For wall flashing, install Flexbase 80 and StressPly EUV Mineral sheets with flashing adhesive and a minimum of 8" above the cant strip where necessary and terminate utilizing aluminum termination bar mechanically fastened on 8" centers, flood the entire field with hot asphalt and immediately embed 3/8" pea gravel surfacing conforming to ASTM-186 and install new metal coping cap around entire perimeter. The Harrington Cooling Tower Pumphouse building roof was inspected in Spring 2017 by plant engineer due to water leaks into the pumphouse. Perimeter flashings were badly deteriorated with holes and splits evident. Membrane blisters were scattered over the roof area and with areas of surfacing deterioration. Vent curb flashings were badly deteriorated. Drainage was far too poor with a moderate area of ponding water evident. The water leakage into the building caused a safety concern since the area of leakage is over the electrical panels inside the building.
71	Electric Production	Lytal	Reliability and Performance Enhancement	51,833.10	-	-	-
							Harrington - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Harrington (HAR) coal generating station.
							Harrington Unit 1 - Replace Generator Hydrogen Purity Monitor - This project is to install a Generator Hydrogen Purity Control System. This includes the Hydrogen Monitor and the associated piping to the Generator. The Hydrogen Monitor will be retrofitted to the Turbine Generator Hydrogen sample line without disturbing existing Hydrogen piping and instrumentation. The Hydrogen Monitor will automatically control Hydrogen Pressure, Purity and Dew-point simultaneously, by controlling the 'vent rate' and new Hydrogen feed flow. It will maintain all three parameters, within very close limits of the set points for Pressure, Purity and Dew-point. Unit 1 still uses the original hydrogen purity monitor installed in the 1970s, that is now obsolete and maintains a passive response to Hydrogen purity management. The new Hydrogen Monitor will actively and continuously monitor hydrogen purity level by measuring and automatically controlling hydrogen purity, dew point and hydrogen pressure to OEM specifications. The Hydrogen Monitor will display output signals to monitor Hydrogen pressure, purity, dew point and bleed valve position.
72	Electric Production	Lytal	Reliability and Performance Enhancement	151,190.06	11,579.18	-	11,579.18

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73	Electric Production	Lyrall Reliability and Performance Enhancement	267,454.24	3,014.75	-	3,014.75	Harrington Unit 1 - ESP Re-build 10 TR-Sets - This project is to overhaul 10 conventional TR-sets. The overhaul includes complete 100% replacement of the following major parts: Transformer-Core/Coil, 2-Rectifier Assemblies, 3 Insulating Boards, Pressure Relief and Drain Systems, HV and LV Bushings, Temperature, Liquid Level and Pressure Gauges, 4-Metering Bushings, Surge Arresters, Insulating Oil, Gaskets, Wiring and only re-use the Tank/Housing. The overhaul also includes running all the standard electrical tests as part of QA/QC including: resistance measurements of all coil windings, ratio tests on rated-voltage connections, exciting current at rated voltage etc. These TR-sets have been operational since 1975. All conventional TR-sets have reached their end of life and the coils and internal parts need to be replaced. All TR-sets on the precipitator are required to work reliably since the unit cannot maintain full-load with any TR-set out of service.
74	Electric Production	Lyrall Environmental Compliance	396,389.04	3,099.59	-	3,099.59	Harrington Unit 1 - Replace ESP Wires Phase 1 of 2 - This is to replace all the discharge wires in the west precipitator. The discharge wires in Harrington 1 Precipitator have been in service for over 20 years and are starting to fail due to wear and tear. During the last inspection of Precipitator in 2016, all wires were found to be extremely brittle. Manufacturers recommend 20 years as the typical time between changing wires to prevent fatigue failures due to wear and tear. These are long-weighted wires and as a result will tend to oscillate with air-flow, causing increased sparking and wear. SPS has had unscheduled shut-downs previously to replace failed wires that had failed as a result of over-sparking.
75	Electric Production	Lyrall Reliability and Performance Enhancement	866,607.62	4,186.76	-	4,186.76	Harrington Unit 3 - Replace Cooling Tower Fan Deck - This project is to remove existing top deck sheeting including the underlying structure and install new underlying structure and fiberglass deck materials. This includes replacement of the fan deck, fan deck joists, and joist supports with fiberglass reinforced plastic material. During the 2017 cooling tower cursory inspection it was noted that some of the fan stacks were beginning to sag due to the underlying supports. If the structure fails at this location, the fan stack(s) could come into contact with the rotating fan assembly and result in the destruction of both. Most of the boards that make up the deck are showing significant wear and deterioration. The report noted that 40-50% of the boards need to be replaced in order to keep the structural integrity of the deck. The boards are uneven creating a tripping hazard for personnel. Safety is also a major concern for personnel working and making daily inspections on the tower. A significant amount of the overlay pieces were missing due to high winds as the underlying structure can't hold the fasteners in place.
76	Electric Production	Lyrall Reliability and Performance Enhancement	1,622,241.65	910.20	-	910.20	Harrington Unit 3 - Replace Cooling Tower Hot Water Deck - This project is the replacement of the current hot water deck on Harrington Unit 3 cooling tower with a new deck consisting of hot water deck, nozzles, cell partition dams, distribution valves catwalks and appropriate decking supports for the new deck. During the October 2015 cooling tower outage inspection it was noticed the current deck is becoming soft and unstable with several places where it has sagged and does not distribute the water properly. There are multiple broken boards that are causing unequal distribution of the water.

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(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)	Project Description
77	Electric Production	Lyal	Reliability and Performance Enhancement	375,205.38	9,825.01	-	9,825.01	Harrington Unit 1 - Replace Electro-Hydraulic Control (EHC) Pump System - This project is to replace the current turbine EHC pump system with a constant pressure pump system which includes a filter manifold. The filter manifold installation incorporates isolation valves, bypass valve, relief valves, air bleeds and high performance filters. The manifold also includes flow meters for each pump to monitor pump discharge flow rates. The existing EHC system has been problematic with erratic pump pressures and issues with the unloader valves. This replacement will incorporate pumps that vary their output capacity to meet the given flow demands of the system, thereby maintaining nearly constant pressure as set by their own pressure compensator. This project would replace the unloader valve and the potential for insalable valve operation associated with this component is eliminated.
78	Electric Production	Lyal	Reliability and Performance Enhancement	523,512.56	8,502.52	-	8,502.52	Harrington Unit 1 - Replace High Voltage (HV) Generator Bushings - This project is to replace the Harrington Unit 1 HV Generator Main Lead Bushing. This scope includes: removal of the existing Main Lead Bushings and replacement installation with new Main Lead Bushings. The scope of work shall also include inspections of the generator bushings, end windings and other electrical testing upon Technical Resources and Compliance (TRaC) recommendation as well as Bushing Air Flow Test and Measure final generator winding resistance. The existing main lead generator bushings have developed major greasing due to wear and excess oil in the generator. Significant greasing in the generator bushings can cause hydrogen gas leaks and is high safety risk. The existing main lead generator bushings are original plant equipment (30 + years old).
79	Electric Production	Lyal	Reliability and Performance Enhancement	59,931.38	3,345.74	-	3,345.74	Tolk - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Tolk (TOL) coal generating station.
80	Electric Production	Lyal	Reliability and Performance Enhancement	4,580,873.05	63,982.34	-	63,982.34	Tolk Unit 0 - Water Well Phase 8 - This project is to design and construct approximately 4.5 miles of water transmission pipeline, overhead power, and access roads for additional well sites as well as drill and develop 6 new wells on this pipeline. Wells need to be instrumented with flow meters, level transducers, and radios to provide for control from Tolk. Decline of SPS's current well field production puts Tolk at risk for a water shortage.
81	Electric Production	Lyal	Reliability and Performance Enhancement	458,608.91	10,816.10	-	10,816.10	Tolk Unit 0 - West Soot Blower Air Compressor (SBAC) Overhaul - This project is to restore the West Soot Blower Air Compressor to design operating parameters. The scope of this overhaul is to replace all 5 impellers, replace coolers, and rebuild valves. This project also includes the purchase and installation of a new tube bundle for the after-cooler. This compressor is a critical component of the plant and the plant operational history has shown that the soot blower air compressors need to be overhauled every three to four years. The plant has experienced compressor failures due to worn components after a compressor has been in service for four years. This compressor was last overhauled in 2015.
82	Electric Production	Lyal	Reliability and Performance Enhancement	67,069.38	5,498.30	-	5,498.30	Tolk - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Tolk (TOL) coal generating station.

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(A) Line No.	(B) Asset Class	(C) Witness 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) Project Description
83	Electric Production	Lytal Environmental Compliance	534,657.51	7,820.73	-	7,820.73	Tolk Unit 1 - Replace Baghouse Bags - This project is to remove and replace the filter bags in 6 compartments and clean the baghouse compartments. Tolk's filter bags have a useful life of 6 to 8 years and the bags in these compartments have been in service for 8 years. Inspections during the 2015 overhaul confirmed these compartments are showing signs of deterioration and will be ready for replacement based on life expectancy.
84	Electric Production	Lytal Reliability and Performance Enhancement	45,266.01	-	-	-	Tolk - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Tolk (TOL) coal generating station.
85	Electric Production	Lytal Reliability and Performance Enhancement	683,587.31	33,724.98	-	33,724.98	Nichols Unit 2 - Replace Blowdown Piping - This project includes abandoning the original pipe and installing new pipe in a run parallel to the old pipe from the service tunnel to the tie-in point outside of the west fence line near the fly-ash road. The current pipeline has been repaired multiple times. Visual inspection of the pipe revealed heavy corrosion on both the interior and exterior. The original coating was observed to have disintegrated.
86	Electric Production	Lytal Reliability and Performance Enhancement	88,301.90	3,432.21	-	3,432.21	Nichols - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Nichols (NIC) natural gas generating station.
87	Electric Production	Lytal Reliability and Performance Enhancement	633,027.16	3,734.63	-	3,734.63	Jones Unit 2 - Upgrade Foxboro Field Bus Modules (FBMs) - This project is to replace Foxboro 100 series FBMs with 200 series FBMs. A database of all the points and FBM's will be generated. A Distributed Control System (DCS) Upgrade committee composed of Technical Resources and Compliance (TRaC), Engineering and Construction (E&C) and Plant Engineers (PETS) have developed a fleet-wide DCS Lifecycle Management plan to replace the DCS hardware and software. The committee is tracking the lifecycle of the DCS software and hardware components throughout the fleet and coordinating the upgrade schedule with the current plant outage schedules. The schedule reflects the realistic occurrence of a major failure that could create unit trips and extended down time.
88	Electric Production	Lytal Reliability and Performance Enhancement	1,556,626.45	988.08	-	988.08	Jones Unit 2 - Replace Seamed Hot Reheat (HRH) piping - This project consists of replacing all the hot reheat piping from the turbine to the boiler. This would require the abatement of both lines, the removal of all seamed piping and installation of new seamless pipe with appropriate pipe hanger analysis and possible hanger replacement. The reheat lines were originally built with seamed pipe. This project is part of a corporate initiative to replace high-energy seamed piping. An analysis done by Reliability Services and Overhaul Management in 2015, concluded that all HE-seamed piping in the region should be replaced due to the probability of failure. This type of failure could be catastrophic resulting in significant property damage, outage time, and danger to personnel.

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Energy Supply Capital Additions

(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) Project Description
89	Electric Production	Reliability and Performance Enhancement	674,381.15	22,454.23	-	22,454.23	Jones Unit 2 - Rewind Exciter Rotor - This project is to Rewind and Refurbish the existing rotating armature of Jones Unit 2 Westinghouse Brushless Exciter. This scope includes replacement of all Outboard/Inboard Diode Wheel Fuses, Diode Module strap-Components, Capacitors, Capacitor Fuses, Heat Sinks, Armature Core and Rim repair/replacement, FME barrier Screens, Field Poles, Bearing Rehabilitating / Oil Seal fin replacement. Upon the inspection and review by Technical Resources and Compliance (TRaC) during the last overhaul, several banding issues were observed and documented on this specific exciter rotor. Based on the age of the unit, past history with the exciters at Harrington, and the fact that we are already seeing issues with the banding on this unit, TRaC recommends this project.
90	Electric Production	Reliability and Performance Enhancement	568,832.82	7,933.78	-	7,933.78	Jones Unit 2 - Transmitter Replacement Phase 2 - This project is for the complete replacement of all model 3051 Rosemount transmitters on Unit 2. This will consist of replacing thirty-five 3051s and include a Hart Communicator and Tough book configuration tool. New manifolds will also be required. The current transmitters have developed an "S-curve" characteristic that cannot be calibrated out, additionally the calibration "pois" are worn and do not maintain zero and span. The current transmitters are obsolete and no longer supported by Rosemount and no spare parts are available from the manufacturer.
91	Electric Production	Reliability and Performance Enhancement	664,607.91	14,790.03	-	14,790.03	Jones Unit 2 - Superheat (SH) Header Sealbox Replacement - This project will require the removal of old refractory located at the seal box where the SH tubes penetrate the furnace wall and replaced with high temperature refractory on the furnace side. This will necessitate the replacement of the seal box around the SH headers including all metal and refractory. During the 2013 outage the SH tubes and sealboxes were replaced with new metal sealboxes and high temperature mineral wool. It has been determined that this may not have been the best design as we continue to have hot spots on the boiler around the superheat outlet header and doors, as such a complete replacement will be required.
92	Electric Production	Reliability and Performance Enhancement	286,775.20	10,728.20	-	10,728.20	Jones Unit 2 - Replace Oil Circuit Breaker JK45 - This project will be the complete replacement of the 230kV generator breaker JK45. The current JK45 breaker has a date of manufacture of 1973. Manufactured in 1973, the General Electric Oil Blast Circuit Breaker is original equipment and has been in operation for more than 40 years. This breaker has now become obsolete and replacement parts are no longer supported by the manufacturer. The substation manager will no longer continue to support the maintenance on these breakers due to the unavailability of replacement parts.

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Energy Supply Capital Additions

(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-iv) Total Affiliate Charges (Included in Column D)	(F) Project Description
93	Electric Production	Lyal	Reliability and Performance Enhancement	137,765.58	1,576.95	-	1,576.95	Jones Unit 2 - Replace Control Processors (CPs) - This project is to upgrade the current CPs with the most current version of CPs. The project will include base plates for the CPs and the necessary switches and fiber jumpers to incorporate a functioning system. Software updates may be necessary to accommodate the new CPs. A Distributed Control System (DCS) Upgrade committee composed of Technical Resources and Compliance (TRaC), Engineering and Construction (E&C) and Plant Engineers (PETS) have developed a fleet-wide DCS Lifecycle Management plan to replace the DCS hardware and software. The hardware and software are well beyond the obsolete state. The committee is tracking the lifecycle of the DCS software and hardware components throughout the fleet and coordinating the upgrade schedule with the current plant outage schedules. The schedule reflects the realistic occurrence of a major failure that could create unit trips and extended down time.
94	Electric Production	Lyal	Reliability and Performance Enhancement	332,350.62	720.96	-	720.96	Jones Unit 1 - Replace Cooling Tower (CT) Makeup Piping - This project includes the replacement of the CT makeup line from the underground makeup header to the discharge into the cold water basin using HDPE. There are two valves and a flow meter that will be salvaged and reused. The flanges, gaskets, reducers, and the transition tee from the header will be replaced. The CT make up lines have been in service since 1970. There have been multiple leaks on the pipe that have been patched. The current pipe is thinning due to corrosion and service life, a failure of the piping could cause the unit to come offline during the Summer months.
95	Electric Production	Lyal	Reliability and Performance Enhancement	39,290.12	2,038.65	-	2,038.65	Jones - Small Routines - This expenditure represents a group of projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Jones (JON) natural gas generating station.
96	Electric Production	Lyal	Reliability and Performance Enhancement	617,408.56	5,830.69	-	5,830.69	Jones Unit 2 - Replace L-1 Generator End Turbine Blades - This project is to replace one complete row of rotating blades on the Jones Unit 2 low pressure turbine. This Unit has a history of blade cracking occurring within the L-1 rows. The current L-1 generator row is original and has been in service since 1974. The OEM (Siemens) was consulted and is recommending original Jones Unit 2 L-1 generator row be replaced during the next outage. Siemens indicated that it is not uncommon for these blades to wear out in 20-30 years and were surprised that the Jones blades had obtained such a high service life.
97	Total Electric Production	Lyal	Reliability and Performance Enhancement	\$ 705,869,569.28	\$ 1,368,256.86	\$ -	\$ 1,368,256.86	RATA Testing Trailer - This expenditure is due to adjustments made to the RATA Testing Trailer project (placed in-service in 2017) by Capital Asset Accounting. The RATA Testing Trailer project was a replacement of the Relative Accuracy Test Audit (RATA) Emissions Testing Trailer.
98	Electric General	Lyal	Reliability and Performance Enhancement	(92.14)	-	-	-	Purchase Vehicles - This expenditure is to purchase vehicles to replace aging vehicles used to travel within and to the various plants. However, the forecast and responsibility for purchasing the vehicles has been moved to Xcel Energy Fleet.
99	Electric General	Lyal	Reliability and Performance Enhancement	127,370.60	930.52	-	930.52	
100	Total Electric General			\$ 127,278.46	\$ 930.52	\$ -	\$ 930.52	
101	Grand Total			\$ 733,589,401.05	\$ 1,373,130.99	\$ -	\$ 1,373,130.99	

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Transmission Capital Additions

(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)	Project Description
1	Electric Transmission	Cooley	SR	\$ 9,195.91	\$ 250.51	-	250.51	345 115kV 448MVA Ximr 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	Anarillo 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	-	-	-	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 Cty - 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.
8	Electric Transmission	Cooley	RE	(11,265.42)	-	-	-	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.
9	Electric Transmission	Cooley	RE	13,500.94	-	-	-	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 ampere rating. SPP issued SPS an NTC for this project.

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Transmission Capital Additions

(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)	Project Description
10	Electric Transmission	Cooley	RE	10,628.91	6,952.06	-	6,952.06	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.
11	Electric Transmission	Cooley	RE	(9,891.99)	303.04	-	303.04	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.
12	Electric Transmission	Cooley	LI	344,326.90	1,199.30	-	1,199.30	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.
13	Electric Transmission	Cooley	RE	55,860.66	679.79	-	679.79	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.
14	Electric Transmission	Cooley	GI	408,661.35	3,866.37	-	3,866.37	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.
15	Electric Transmission	Cooley	RE	24,488.07	-	-	-	Curry Co. Dist. Xlmr 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.
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.
17	Electric Transmission	Cooley	SR	330.11	-	-	-	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.
18	Electric Transmission	Cooley	LI	52,745.74	2,025.18	-	2,025.18	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.
19	Electric Transmission	Cooley	RE	9,404.79	945.00	-	945.00	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.
20	Electric Transmission	Cooley	RE	20,222.25	38.00	-	38.00	Denver City In-Line 115 kV Brkr - This project installed breaker failure relays on all 115-kV breakers at Denver City Interchange.

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Transmission Capital Additions

(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)	Project Description
21	Electric Transmission	Cooley	LI	51,959.33	7,889.58	-	7,889.58	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.
22	Electric Transmission	Cooley	RE	(232.11)	-	-	-	Eddy Co Breakers - This project redesigned the 230-kV bus at Eddy County Interchange and installed two in-line breakers. This project addressed the the reliability compliance issues at the Eddy County Interchange per current NERC Transmission Planning standards.
23	Electric Transmission	Cooley	RE	343,171.50	1,864.01	-	1,864.01	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.
24	Electric Transmission	Cooley	SR	342,994.78	1,370.49	-	1,370.49	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.
25	Electric Transmission	Cooley	SR	1,781,787.17	10,364.18	-	10,364.18	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.
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.
27	Electric Transmission	Cooley	GI	7,197.19	-	-	-	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. 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.

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Transmission Capital Additions

(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)	Project Description
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.
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.

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Transmission Capital Additions

(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)	Project Description
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. 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.
47	Electric Transmission	Cooley	SR	1,999,407.91	1,898.30	-	1,898.30	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).
48	Electric Transmission	Cooley	SR	27,480.68	911.72	-	911.72	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.
49	Electric Transmission	Cooley	RE	115,973.13	227.90	-	227.90	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.
50	Electric Transmission	Cooley	RE	2,142,863.78	2,702.76	-	2,702.76	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.
51	Electric Transmission	Cooley	RE	16,074,569.75	17,713.76	-	17,713.76	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.
52	Electric Transmission	Cooley	RE	103,672.85	172.56	-	172.56	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.
53	Electric Transmission	Cooley	SR	2,138.46	-	-	-	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.
54	Electric Transmission	Cooley	RE	125,167.94	603.85	-	603.85	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.
55	Electric Transmission	Cooley	RE	505,097.94	7,266.21	-	7,266.21	

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(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-iv) Total Affiliate Charges (Included in Column D)	(F) Project Description
56	Electric Transmission	Cooley	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	Cooley	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	Cooley	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	Cooley	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	Cooley	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 ("HPLIS"). SPP issued SPS an NTC for this project.
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.

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64	Electric Transmission	Cooley	RE	21,399.97	1,146.42	-	1,146.42	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 Record - 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.
68	Electric Transmission	Cooley	RE	86,468,358.24	79,958.44	-	79,958.44	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.
69	Electric Transmission	Cooley	RE	3,192.29	-	-	-	the Randall County Substation. The project was needed to address overloads at the Osage Substation. SPP issued SPS an NTC for the project.
70	Electric Transmission	Cooley	RE	9,800.75	-	-	-	Oxy Levelland Amoco Sub UFR - This project installed under frequency relays at the Levelland Amoco Substation to meet compliance
71	Electric Transmission	Cooley	RE	79.27	75.05	-	75.05	PCA-Carlsbad V-61 Wavetrapp Upp - 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.
72	Electric Transmission	Cooley	OT	422,935.09	10,541.99	-	10,541.99	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.

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73	Electric Transmission	Cooley	RE	166.36	-	-	-	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.
74	Electric Transmission	Cooley	RE	169,519.79	194.58	-	194.58	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.
75	Electric Transmission	Cooley	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	Cooley	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	Cooley	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	Cooley	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 incident weather or natural disasters.
79	Electric Transmission	Cooley	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 incident weather and natural disasters.
80	Electric Transmission	Cooley	RE	2,265,441.00	2,192.90	-	2,192.90	seminole intg 230/115kV xdmr #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	Cooley	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	Cooley	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.

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83	Electric Transmission	Cooley	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.
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. ~ 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.
87	Electric Transmission	Cooley	SR	992,463.13	-	-	-	SPS Major Line Refurbishment - This project refurbished various 230-kV lines in the SPS system.
88	Electric Transmission	Cooley	SR	25,549.59	886.81	-	886.81	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.
89	Electric Transmission	Cooley	OT	2,507.09	581.08	-	581.08	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 Hitchland Interchange to Finney Switching Station. This project was needed to address low voltages in the area. SPP issued SPS an NTC for this project.
90	Electric Transmission	Cooley	RE	87,345.10	-	-	-	

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(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)	Project 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, Farmer, Swisher, Bailey, Lamb and Hale counties. SPP issued SPS an NTC for this project. 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. 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. 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. Unserviceable - Relays - SPS - This project replaced relays determined to be unserviceable during maintenance or testing activities. 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. 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. 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.
92	Electric Transmission	Cooley	RE	(13,815.13)	489.11	-	489.11	
93	Electric Transmission	Cooley	RE	6,952.30	-	-	-	
94	Electric Transmission	Cooley	RE	68,797.91	7,938.16	-	7,938.16	
95	Electric Transmission	Cooley	SR	270,274.77	12,638.17	-	12,638.17	
96	Electric Transmission	Cooley	RE	63,041.87	25,432.74	-	25,432.74	
97	Electric Transmission	Cooley	RE	3,952,738.29	17,630.35	-	17,630.35	
98	Electric Transmission	Cooley	RE	(51,167.10)	-	-	-	

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99	Electric Transmission	Cooley	RE	2,992,396.80	15,476.55	-	15,476.55	Yokum Intg. 230/115 Transformer Upgrades - This project replaced the two existing 230/115-kV, 150 MVA autotransformers at Yokum 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.
100	Electric Transmission	Cooley	RE	153,885.36	1,966.83	-	1,966.83	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 Hirschland-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.
101	Total			\$ 155,147,117.72	\$ 556,672.84	\$ -	\$ 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	Cooley	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	Cooley	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	Cooley	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 substation to provide a new 115-kV service point for a new substation owned by Chevron.
105	Electric General	Cooley	LI	38,900.96	710.22	-	710.22	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.
106	Electric General	Cooley	RE	(19,149.43)	-	-	-	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.
107	Electric General	Cooley	RE	148,388.45	(908.82)	-	(908.82)	Denver City In-Line 115 kV Brkr - This project installed breaker failure relays on all 115-kV breakers at Denver City Interchange.
108	Electric General	Cooley	RE	184.42	-	-	-	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	-	-	-	

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110	Electric General	Cooley	SR	150,030.75	915.83	-	915.83	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.
111	Electric General	Cooley	GI	336.48	-	-	-	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.
112	Electric General	Cooley	GI	0.08	-	-	-	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.
113	Electric General	Cooley	GI	10,707.38	-	-	-	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.
114	Electric General	Cooley	RE	218,379.87	311.83	-	311.83	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.
115	Electric General	Cooley	LI	105,920.79	187.07	-	187.07	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.
116	Electric General	Cooley	LI	5,860.26	-	-	-	Interconnection XTO Mahoney - This project installed the new Mahoney Switching Station to provide a new 230-kV service point to XTO.
117	Electric General	Cooley	LI	12,251.38	-	-	-	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.
118	Electric General	Cooley	RE	53,227.22	-	-	-	Lea Co Plains Sw Cap Bank - This project installed a 14.4 MVAR capacitor bank. SPP issued SPS an NTC for this project.
119	Electric General	Cooley	SR	514.82	35.76	-	35.76	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.
120	Electric General	Cooley	SR	(1,364.26)	308.41	-	308.41	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).
121	Electric General	Cooley	RE	83,355.89	4,873.07	-	4,873.07	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.

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122	Electric General	Cooley	RE	301,341.76	-	-	-	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.
123	Electric General	Cooley	RE	(8,249.54)	-	-	-	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 Carlshad, New Mexico. This project was needed for system reliability and SPP issued SPS an NTC for this project.
124	Electric General	Cooley	RE	(0.13)	-	-	-	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 Carlshad, New Mexico, constructed the new 115-kV Sage Brush Substation near Hobbs, New Mexico, 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 ("HPLIS"). SPP issued SPS an NTC for this project.
125	Electric General	Cooley	RE	0.01	-	-	-	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.
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 Carlshad, 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.
128	Electric General	Cooley	OT	511,256.70	3,364.59	-	3,364.59	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.
129	Electric General	Cooley	RE	44,964.92	337.31	-	337.31	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.
130	Electric General	Cooley	LI	1,562,995.49	54.27	-	54.27	RB - Purnell Sub - This project installed a new 115-kV terminal at SPS's XT Substation to provide 115-kV service to Rita Blanca Electric Cooperative to serve new load from its new Wolves Substation.

Southwestern Public Service Company

Transmission Capital Additions

(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)	Project Description
								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	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.
135	Electric General	Cooley	RE	(4,312.95)	-	-	-	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.
136	Electric General	Cooley	RE	14,321.22	-	-	-	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.
137	Electric General	Cooley	OT	65,792.56	2,484.99	-	2,484.99	SPS Frame Relay - These projects installed communications equipment for control and monitoring of the various substations upgraded with this
138	Electric General	Cooley	OT	(82,279.22)	-	-	-	SPS Group 1 Switch Replacements - These projects replaced old high-maintenance or broken switches with new switches.
139	Electric General	Cooley	SR	101,570.55	374.70	-	374.70	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.
140	Electric General	Cooley	OT	6,257.62	-	-	-	

Southwestern Public Service Company

Transmission Capital Additions

(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)	Project Description
141	Electric General	Cooley	RE	(162.06)	-	-	-	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 Hitchland 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. 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. 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.
142	Electric General	Cooley	OT	66,896.11	-	-	-	
143	Electric General	Cooley	OT	9,247.29	-	-	-	
144	Electric General	Cooley	OT	2,865.43	-	-	-	
145	Electric General	Cooley	OT	10,942.98	-	-	-	
146	Electric General	Cooley	OT	36,881.52	2,884.64	-	2,884.64	
147	Electric General	Cooley	RE	(19,833.07)	-	-	-	
148	Electric General Total			\$ 3,533,079.79	\$ 27,612.90	\$ -	\$ 27,612.90	
149	Grand Total			\$ 156,680,197.51	\$ 584,285.74	\$ -	\$ 584,285.74	

Southwestern Public Service Company

Distribution Capital Additions

(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)	Project Description
1	Electric Distribution	Meeks	Distribution Line and Substation Capacity	\$ 53,555.73	\$ -	\$ -	-	Replace Waterfield Substation: TXDOT project requires the replacement of Waterfield Substation. Install New Outpost Substation to serve existing load.
2	Electric Distribution	Meeks	New Business	13.58	-	-	-	OH Extension and Services: This project is to extend new OH distribution lines and services to serve new load.
3	Electric Distribution	Meeks	New Business	165.51	-	-	-	OH Extension and Services: This project is to extend new OH distribution lines and services to serve new load.
4	Electric Distribution	Meeks	New Business	(186.92)	-	-	-	OH Extension and Services: This project is to extend new OH distribution lines and services to serve new load.
5	Electric Distribution	Meeks	New Business	109,895.80	-	-	-	UG Extension and Services: This project is to extend new UG distribution lines and services in order to serve new load.
6	Electric Distribution	Meeks	Distribution Line and Substation Capacity	4,486.92	-	-	-	SENM 23kv Upgrades: This project is to install new OH lines to serve new customer load.
7	Electric Distribution	Meeks	New Business	8,241.66	-	-	-	OH Extension and Services: This project is to extend new OH distribution lines and services to serve new load.
8	Electric Distribution	Meeks	New Business	(0.84)	-	-	-	OH Extension and Services: This project is to extend new OH distribution lines and services to serve new load.
9	Electric Distribution	Meeks	Outdoor/Area Lighting	1,113.91	-	-	-	OH Street Light: This project is to install or rebuild OH street lights.
10	Electric Distribution	Meeks	Outdoor/Area Lighting	(18.40)	-	-	-	OH Street Light: This project is to install or rebuild OH street lights.
11	Electric Distribution	Meeks	Outdoor/Area Lighting	4.45	-	-	-	UG Street Light: This project is to install or rebuild UG street lights.
12	Electric Distribution	Meeks	Distribution Line and Substation Reconstruction	648.83	-	-	-	OH Relocations, Rebuilds and Conversions: This project is to relocate, rebuild or convert existing distribution line facilities.
13	Electric Distribution	Meeks	Distribution Line and Substation Reconstruction	(927.80)	-	-	-	OH Relocations, Rebuilds and Conversions: This project is to relocate, rebuild or convert existing distribution line facilities.
14	Electric Distribution	Meeks	Distribution Line and Substation Reconstruction	20.89	-	-	-	OH Relocations, Rebuilds and Conversions: This project is to relocate, rebuild or convert existing distribution line facilities.
15	Electric Distribution	Meeks	Distribution Line and Substation Reconstruction	53,187.60	-	-	-	OH Relocations, Rebuilds and Conversions: This project is to relocate, rebuild or convert existing distribution line facilities.
16	Electric Distribution	Meeks	Distribution Line and Substation Capacity	70.43	-	-	-	OH Relocations, Rebuilds and Conversions: This project is to relocate, rebuild or convert existing distribution line facilities.
17	Electric Distribution	Meeks	Purchases	601,559.02	-	-	-	This project is for the purchase of Land and ROW for new distribution facilities, lines or substations.
18	Electric Distribution	Meeks	Purchases	55,386.41	-	-	-	This project is for the purchase of Land and ROW for new distribution facilities, lines or substations.
19	Electric Distribution	Meeks	Purchases	26,729.86	-	-	-	This project is for the purchase of Land and ROW for new distribution facilities, lines or substations.
20	Electric Distribution	Meeks	Distribution Line and Substation Capacity	4,285.92	-	-	-	This project is for the purchase of Land and ROW for new distribution facilities, lines or substations.
21	Electric Distribution	Meeks	Distribution Line and Substation Reconstruction	161,498.71	444.66	-	-	Substation Equipment Replacement: Replace failed/failing substation equipment to maintain reliable service to existing customers.
22	Electric Distribution	Meeks	Distribution Line and Substation Reconstruction	871.88	-	-	-	Hobbs T2 Transformer Replacement: Replace failing Hobbs T2 transformer to maintain reliable service to existing customers.
23	Electric Distribution	Meeks	Distribution Line and Substation Reconstruction	501,639.64	8,472.73	-	-	Substation Equipment Replacement: Replace failed/failing substation equipment to maintain reliable service to existing customers.
24	Electric Distribution	Meeks	Distribution Line and Substation Reconstruction	109,255.48	-	-	-	Substation Equipment Replacement: Replace failed/failing substation equipment to maintain reliable service to existing customers.
25	Electric Distribution	Meeks	Distribution Line and Substation Capacity	2,608.56	-	-	-	Replace Waterfield Substation: TXDOT project requires the replacement of Waterfield Substation. Install New Outpost Substation to serve existing load.

Southwestern Public Service Company

Distribution Capital Additions

(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)	Project Description
26	Electric Distribution	Meeks	Distribution Line and Substation Capacity	(61,322.80)	-	-	-	Convert Zodiac Substation: Install new Kilgore substation by converting Zodiac Substation from 69kV to 115kV and convert existing feeder line voltage
27	Electric Distribution	Meeks	Distribution Line and Substation Capacity	(24,920.42)	5,843.22	-	5,843.22	Convert Soney Substation: Convert Soney Substation from 69kV to 115kV and convert existing feeder line voltage
28	Electric Distribution	Meeks	Distribution Line and Substation Capacity	2,762.65	-	-	-	Convert Portales South: Convert Portales South Substation from 69kV to 115kV and convert existing feeder line voltage
29	Electric Distribution	Meeks	Distribution Line and Substation Capacity	1,424.57	-	-	-	Convert Market Street: Convert Market Street Substation from 69kV to 115kV by installing new Greyhound Substation, feeder and communications.
30	Electric Distribution	Meeks	Distribution Line and Substation Capacity	(57,636.12)	-	-	-	Convert Booker Substation: Convert 69kV voltage to 115kV by building new Lipscomb Substation and connection existing feeders.
31	Electric Distribution	Meeks	Distribution Line and Substation Capacity	1,147.72	-	-	-	Reinforce Pringle Oil Field: Upgrade the existing Pringle Oil Field Transformer to serve new oil and gas customer load.
32	Electric Distribution	Meeks	Distribution Line and Substation Capacity	6,776.46	75.97	-	75.97	Install Sierra Substation and Feeders: This project is to install a new substation, extend existing feeders to serve new customer load and connect communication devices.
33	Electric Distribution	Meeks	Distribution Line and Substation Reconstruction	5,183,572.89	-	-	-	Storm restoration and response to ensure the safe and reliable restoration of the electrical system following significant storm events.
34	Electric Distribution	Meeks	Distribution Line and Substation Reconstruction	175,491.05	-	-	-	Pole Replacement and Reinforcement: This project is to replace and reinforce existing poles.
35	Electric Distribution	Meeks	Distribution Line and Substation Purchases	1,304.71	-	-	-	Capital Locating Costs: This project includes costs for capital facility locates.
36	Electric Distribution	Meeks	Distribution Line and Substation Reconstruction	162,010.83	-	-	-	OH Line Rebuild and Obsolete Voltage Conversion: Rebuild and Convert OH lines to address reliability issues with aged infrastructure and obsolete voltage equipment
37	Electric Distribution	Meeks	Distribution Line and Substation Purchases	1.62	-	-	-	Capital Locating Costs: This project includes costs for capital facility locates.
38	Electric Distribution	Meeks	New Business	(3,164,650.00)	-	-	-	CIAC in Support Reconstruction or customer-driven work: This project consists of customer payments for work performed.
39	Electric Distribution	Meeks	New Business	1,793,355.81	-	-	-	CIAC in Support Reconstruction or customer-driven work: This project consists of customer payments for work performed.
40	Electric Distribution	Meeks	New Business	1,367,864.14	-	-	-	OH Extension and Services: This project is to extend new OH distribution lines and services to serve new load.
41	Electric Distribution	Meeks	New Business	706,252.72	-	-	-	UG Extension and Services: This project is to extend new UG distribution lines and services in order to serve new load.
42	Electric Distribution	Meeks	New Business	128,742.62	-	-	-	OH Extension and Services: This project is to extend new OH distribution lines and services to serve new load.
43	Electric Distribution	Meeks	New Business	217,665.18	-	36.00	36.00	UG Extension and Services: This project is to extend new UG distribution lines and services in order to serve new load.
44	Electric Distribution	Meeks	Outdoor/Area Lighting	(943.14)	-	-	-	OH Street Light: This project is to install or rebuild OH street lights.
45	Electric Distribution	Meeks	Outdoor/Area Lighting	37.57	-	-	-	UG Street Light: This project is to install or rebuild UG street lights.
46	Electric Distribution	Meeks	New Business	2,277,105.23	-	-	-	OH Extension and Services: This project is to extend new OH distribution lines and services to serve new load.
47	Electric Distribution	Meeks	New Business	28,012.78	-	-	-	UG Extension and Services: This project is to extend new UG distribution lines and services in order to serve new load.
48	Electric Distribution	Meeks	New Business	63,938.55	-	-	-	OH Extension and Services: This project is to extend new OH distribution lines and services to serve new load.
49	Electric Distribution	Meeks	New Business	92,466.25	-	-	-	UG Extension and Services: This project is to extend new UG distribution lines and services in order to serve new load.
50	Electric Distribution	Meeks	Outdoor/Area Lighting	25,721.15	-	-	-	UG Street Light: This project is to install or rebuild UG street lights.

Southwestern Public Service Company

Distribution Capital Additions

(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)	Project Description
51	Electric Distribution	Meeks	Distribution Line and Substation Reconstruction	309,118.84	-	-	-	OH Relocations, Rebuilds and Conversions: This project is to relocate, rebuild or convert existing distribution line facilities.
52	Electric Distribution	Meeks	Distribution Line and Substation Reconstruction	206.41	-	-	-	UG Relocations, Rebuilds and Conversions: This project is to relocate, rebuild or convert existing distribution line facilities.
53	Electric Distribution	Meeks	Distribution Line and Substation Reconstruction	2,917.79	-	-	-	OH Relocations, Rebuilds and Conversions: This project is to relocate, rebuild or convert existing distribution line facilities.
54	Electric Distribution	Meeks	Distribution Line and Substation Reconstruction	1,857,936.35	-	562.98	562.98	OH Relocations, Rebuilds and Conversions: This project is to relocate, rebuild or convert existing distribution line facilities.
55	Electric Distribution	Meeks	Distribution Line and Substation Reconstruction	128,697.88	-	-	-	UG Relocations, Rebuilds and Conversions: This project is to relocate, rebuild or convert existing distribution line facilities.
56	Electric Distribution	Meeks	Distribution Line and Substation Reconstruction	61,408.23	-	-	-	OH Relocations, Rebuilds and Conversions: This project is to relocate, rebuild or convert existing distribution line facilities.
57	Electric Distribution	Meeks	Distribution Line and Substation Reconstruction	53,464.80	-	-	-	UG Relocations, Rebuilds and Conversions: This project is to relocate, rebuild or convert existing distribution line facilities.
58	Electric Distribution	Meeks	Outdoor/Area Lighting	439,770.81	-	138.92	138.92	OH Street Light: This project is to install or rebuild OH street lights.
59	Electric Distribution	Meeks	Outdoor/Area Lighting	792.16	-	-	-	UG Street Light: This project is to install or rebuild UG street lights.
60	Electric Distribution	Meeks	Distribution Line and Substation Reconstruction	1,146,239.70	-	-	-	Pole Replacement and Reinforcement: This project is to replace and reinforce existing poles.
61	Electric Distribution	Meeks	Distribution Line and Substation Reconstruction	1,760,462.48	-	-	-	OH Relocations, Rebuilds and Conversions: This project is to relocate, rebuild or convert existing distribution line facilities.
62	Electric Distribution	Meeks	Distribution Line and Substation Reconstruction	75,273.02	-	-	-	UG Relocations, Rebuilds and Conversions: This project is to relocate, rebuild or convert existing distribution line facilities.
63	Electric Distribution	Meeks	Distribution Line and Substation Reconstruction	42,864.19	-	54.53	54.53	OH Relocations, Rebuilds and Conversions: This project is to relocate, rebuild or convert existing distribution line facilities.
64	Electric Distribution	Meeks	Outdoor/Area Lighting	145,835.20	-	-	-	OH Street Light: This project is to install or rebuild OH street lights.
65	Electric Distribution	Meeks	Outdoor/Area Lighting	109,196.56	-	-	-	UG Street Light: This project is to install or rebuild UG street lights.
66	Electric Distribution	Meeks	Distribution Line and Substation Reconstruction	1,797,336.53	-	-	-	Pole Replacement and Reinforcement: This project is to replace and reinforce existing poles.
67	Electric Distribution	Meeks	Distribution Line and Substation Capacity	148,175.48	-	-	-	OH Reinforcements: This project is to reinforce or reconductor existing distribution lines to serve new or existing customers.
68	Electric Distribution	Meeks	Distribution Line and Substation Capacity	8,074.48	-	-	-	UG Reinforcements: This project is to reinforce or reconductor existing distribution lines to serve new or existing customers.
69	Electric Distribution	Meeks	Distribution Line and Substation Capacity	35,918.92	-	-	-	OH Reinforcements: This project is to reinforce or reconductor existing distribution lines to serve new or existing customers.
70	Electric Distribution	Meeks	Distribution Line and Substation Capacity	16,801.75	3,623.94	-	3,623.94	This project is for the purchase of Land and ROW for new distribution facilities, lines or substations.
71	Electric Distribution	Meeks	New Business	2,587,547.85	-	-	-	Transformer Purchase: This project is for distribution transformer purchases.
72	Electric Distribution	Meeks	New Business	1,129,785.54	-	-	-	Transformer Purchase: This project is for distribution transformer purchases.
73	Electric Distribution	Meeks	New Business	1,851,400.49	-	-	-	Meter Purchase: This project is for the purchase of new electric meters.
74	Electric Distribution	Meeks	New Business	276,660.74	-	-	-	Meter Purchase: This project is for the purchase of new electric meters.
75	Electric Distribution	Meeks	Distribution Line and Substation Reconstruction	11,866.40	-	-	-	Convert Centre Street Substation: Convert Centre Street Substation from 69kV to 115kV and convert existing feeder line voltage
76	Electric Distribution	Meeks	Distribution Line and Substation Reconstruction	219.96	-	-	-	Damron Transformer Replacement : Replace Damron Substation transformer to maintain reliable service to existing customers.
77	Electric Distribution	Meeks	Distribution Line and Substation Capacity	5,659.34	5,659.34	-	-	This project is for the purchase of Land and ROW for new distribution facilities, lines or substations.
78	Electric Distribution	Meeks	New Business	(29.61)	-	-	-	Mesquite Services Extension: Extend service to serve new customer load

Southwestern Public Service Company

Distribution Capital Additions

(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-iv) Total Affiliate Charges (Included in Column D)	(F) Project Description
79	Electric Distribution	Meeks	Distribution Line and Substation Reconstruction	6,259.87	-	-	-	UG Relocations, Rebuilds and Conversions: This project is to relocate, rebuild or convert existing distribution line facilities.
80	Electric Distribution	Meeks	Distribution Line and Substation Capacity	(0.20)	-	-	-	Convert Curry County Substation: Convert Curry County Substation from 69kV to 115kV and convert existing feeder line voltage
81	Electric Distribution	Meeks	Distribution Line and Substation Reconstruction	594,882.93	1,781.64	-	1,781.64	Upton Transformer: Replace failed Upton transformer to maintain reliable service to existing customers.
82	Electric Distribution	Meeks	New Business	1,365.75	-	-	-	OH Extension and Services: This project is to extend new OH distribution lines and services to serve new load.
83	Electric Distribution	Meeks	New Business	(75,430.04)	-	-	-	OH Extension and Services: This project is to extend new OH distribution lines and services to serve new load.
84	Electric Distribution	Meeks	Distribution Line and Substation Capacity	28.53	-	-	-	UG Reinforcements: This project is to reinforce or reconductor existing distribution lines to serve new or existing customers.
85	Electric Distribution	Meeks	New Business	1,299.13	-	-	-	OH Extension and Services: This project is to extend new OH distribution lines and services to serve new load.
86	Electric Distribution	Meeks	Distribution Line and Substation Reconstruction	32,399.95	-	-	-	Storm restoration and response to ensure the safe and reliable restoration of the electrical system following significant storm events.
87	Electric Distribution	Meeks	Distribution Line and Substation Reconstruction	329,100.37	-	-	-	Rebuild Distribution Lines in conjunction with transmission project.
88	Electric Distribution	Meeks	Distribution Line and Substation Reconstruction	(90.59)	-	-	-	Convert Curry County Substation: Convert Curry County Substation from 69kV to 115kV and convert existing feeder line voltage
89	Electric Distribution	Meeks	Distribution Line and Substation Capacity	14,832.83	-	-	-	This project is for the purchase of Land and ROW for new distribution facilities, lines or substations.
90	Electric Distribution	Meeks	Distribution Line and Substation Capacity	3,703,015.86	13,404.79	-	13,404.79	Install Hillside #2 Transformer and Feeders: This project is to install a new substation transformer and associated feeders to serve general load growth in the Hillside area.
91	Electric Distribution	Meeks	Distribution Line and Substation Capacity	719,645.26	1,646.07	-	1,646.07	Install Hillside #2 Transformer and Feeders: This project is to install a new substation transformer and associated feeders to serve general load growth in the Hillside area.
92	Electric Distribution	Meeks	Distribution Line and Substation Capacity	2,037,843.45	2,522.97	-	2,522.97	This project is for the purchase of Land and ROW for new distribution facilities, lines or substations.
93	Electric Distribution	Meeks	New Business	0.01	-	-	-	Install Pearl - Lea Tie: Extend OH line to new customer requested load, and build a tie between two feeders to enhance reliability and switching in the area.
94	Electric Distribution	Meeks	Outdoor/Area Lighting	162,428.48	-	-	-	UG Street Light: This project is to install or rebuild UG street lights.
95	Electric Distribution	Meeks	Outdoor/Area Lighting	72,543.53	-	-	-	UG Street Light: This project is to install or rebuild UG street lights.
96	Electric Distribution	Meeks	Distribution Line and Substation Reconstruction	(612.22)	-	-	-	OH Relocations, Rebuilds and Conversions: This project is to relocate, rebuild or convert existing distribution line facilities.
97	Electric Distribution	Meeks	Distribution Line and Substation Capacity	(659.15)	-	-	-	OH Relocations, Rebuilds and Conversions: This project is to relocate, rebuild or convert existing distribution line facilities.
98	Electric Distribution	Meeks	Distribution Line and Substation Capacity	(245.68)	-	-	-	UG Relocations, Rebuilds and Conversions: This project is to relocate, rebuild or convert existing distribution line facilities.
99	Electric Distribution	Meeks	Distribution Line and Substation Reconstruction	628,889.03	-	-	-	Transformer Purchase: Purchase either spare or mobile transformer to be used in the event of transformer failure, or in aid of construction of new substation.
100	Electric Distribution	Meeks	Distribution Line and Substation Capacity	6,264.50	-	-	-	UG Reinforcements: This project is to reinforce or reconductor existing distribution lines to serve new or existing customers.
101	Electric Distribution	Meeks	Distribution Line and Substation Reconstruction	217,160.87	-	-	-	Transformer Purchase: Purchase either spare or mobile transformer to be used in the event of transformer failure, or in aid of construction of new substation.

Southwestern Public Service Company

Distribution Capital Additions

(A) Line No.	(B) Asset Class	(C) Witness 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) Project Description
Distribution Line and Substation							
102	Electric Distribution	Meeks	2,488,081.18	-	-	-	Transformer Purchase: Purchase either spare or mobile transformer to be used in the event of transformer failure, or in aid of construction of new substation. Install Communication devices in substations Install Communication devices in substations Install Communication devices in substations Fleet: This project is to purchase fleet vehicles and equipment in support of distribution work. Fleet: This project is to purchase fleet vehicles and equipment in support of distribution work. Tools and Equipment: This project provides the funds to purchase tools and equipment necessary to support distribution work. This project provides the funds to purchase tools and equipment necessary to support distribution work. Install Communication devices in substations
103	Total Electric Distribution	Reconstruction	\$ 35,562,894.79	\$ 43,475.33	\$ 792.43	\$ 44,267.76	
104	Electric General	Purchases	(2,355.74)	\$ -	\$ -	226.58	
105	Electric General	Purchases	120,478.53	-	-	-	
106	Electric General	Purchases	3,260.25	-	-	-	
107	Electric General	Purchases	1,117,919.63	17,841.62	-	17,841.62	
108	Electric General	Purchases	357,611.90	1,954.13	-	1,954.13	
109	Electric General	Purchases	1,015,249.51	-	-	-	
110	Electric General	Purchases	803,433.33	-	2,042.20	2,042.20	
111	Electric General	Purchases	70,957.54	-	-	-	
112	Total Electric General		\$ 3,486,554.95	\$ 20,022.33	\$ 2,042.20	\$ 22,064.53	
113	Grand Total		\$ 39,049,449.74	\$ 63,497.66	\$ 2,834.63	\$ 66,332.29	

Southwestern Public Service Company

Electric General and Software Capital Additions

(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) Project Description
1	Electric General - Software	Harkness	PTT	\$ 327.29	\$ 327.29	-	\$ 327.29	Other, miscellaneous adjustments The Project is for software for the implementation of an administration/management system covering digital certificates & encryption keys.
2	Electric General - Software	Harkness	Cyber Security	(1,952.24)	(1,952.24)	-	(1,952.24)	The Stabilization and Optimization project is a continuing effort focused on improving end user experience, driving customer satisfaction, and improving efficiency by providing enhancements. Examples include further work execution process automation that will reduce non-value added work, improve user experience, further mobile adoption and increase data quality controls. In addition, the project implements additional scheduling process automation that will improve the customer and user experience, reduce process waste, improve emergency response and escalated operation capabilities. The project also includes improving the efficiency and accuracy in the work order-to-pay processes, including work planning and work management, in order to streamline supply chain integrations, work execution, and on-time end-to-end work order to pay processes.
3	Electric General - Software	Harkness	PTT	206,313.69	206,313.69	-	206,313.69	These projects involve wide area network reliability and capacity improvements for Distribution and Transmission substations, Energy Supply sites, Service Centers and third parties. These costs are associated with the design, deployment, and testing of elements for utilizing transmission fiber and microwave-based communications in support of a corporate initiative to expand and privatize the Xcel Energy-wide area network. The business needs being addressed by this project include: increased substation communications reliability; high-speed digital access for operations, maintenance, and security; and ability to analyze data to improve reliability and operations.
4	Electric General - Software	Harkness	Enhance Capabilities	9,228.92	9,228.92	-	9,228.92	reliability; high-speed digital access for operations, maintenance, and security; and ability to analyze data to improve reliability and operations.
5	Electric General - Software	Harkness	Aging Technology	37.25	37.25	-	37.25	
6	Electric General - Software	Harkness	Aging Technology	71.05	71.05	-	71.05	
7	Electric General - Software	Harkness	Aging Technology	14.54	14.54	-	14.54	
8	Electric General - Software	Harkness	Enhance Capabilities	(187,382.97)	(187,382.97)	-	(187,382.97)	This project contains costs for upgrading the software Xcel Energy utilizes to operate and maintain facilities. The project improved decision-making and property management processes, improved facility budget management, and provided improved analytics related to property management.
9	Electric General - Software	Harkness	Cyber Security	328.99	328.99	-	328.99	
10	Electric General - Software	Harkness	Aging Technology	2,213.30	2,213.30	-	2,213.30	
11	Electric General - Software	Harkness	PTT	276.46	276.46	-	276.46	
12	Electric General - Software	Harkness	Aging Technology	2.85	2.85	-	2.85	The project will configure to inventory and manage enterprise deployed firewall rulesets and established to manage the ongoing firewall environment.
13	Electric General - Software	Harkness	Enhance Capabilities	1,499.44	1,499.44	-	1,499.44	
14	Electric General - Software	Harkness	Cyber Security	460.55	460.55	-	460.55	
15	Electric General - Software	Harkness	Cyber Security	2,149.19	2,149.19	-	2,149.19	
16	Electric General - Software	Harkness	Cyber Security	15.71	15.71	-	15.71	Other, miscellaneous adjustments
17	Electric General - Software	Harkness	Cyber Security	(15,395.62)	(15,395.62)	-	(15,395.62)	The project is enhancing the Company's means of controlling and logging access to structured data assets. This phase focuses on data encryption, masking, protection, best practices & governance processes to enforce security policies.

Southwestern Public Service Company

Electric General and Software Capital Additions

Line No.	Asset Class	Witness	Project Category	(D) Additions to Plant-in-Service (April 2019-June 2019)	(E)			(F) Project Description
					(E-i) XE'S Charges (Included in Column D)	(E-ii) Other Affiliate Charges (Included in Column D)	(E-iii) Total Affiliate Charges (Included in Column D)	
18	Electric General - Software	Harkness	Aging Technology	11,266.61	11,266.61	-	11,266.61	These projects are for the replacement of aging or unsupported core network components and other network components critical to the reliability of Xcel's communications network, and to increase capacity to support increasing demand on the network. Components of these projects include design, planning, deployment and testing. Other, miscellaneous adjustments The project will upgrade the WebSense installation to the current software version to keep up to date with security and maintenance. 2,421.62 Other, miscellaneous adjustments The project will build new Work and Asset Management specific data marts in SAP Business Warehouse(BW) to support reporting needs. Create and deliver SAP Business Objects reporting and analysis capabilities for work and asset management (714.46) This is a project to assess and build NERC compliance related business functions in the Archer application, Xcel Energy's governance, risk management and compliance ("GRC") tool. This project will streamline several business functions including audit preparation, internal controls, standards development/implementation, and issue evaluation/remediation. The Project will upgrade the Oracle database version. Several versions are deployed within the enterprise and are end of life or no longer supported by Oracle. This project involves the technical and data storage portions of the Transmission unmanned aircraft system effort and involves integrating data obtained by unmanned aircraft into existing modeling tools and asset condition reports required for NERC compliance and maintenance planning. Other, miscellaneous adjustments This project creates a central repository that can house the inventory of all network assets. This inventory will include wireless networks, fiber, physical locations, WAN circuits, network hardware components, etc. In addition, the system provides geospatial visualization of the entire communications network, and provides real-time network monitoring for enhanced network reliability and security. The project replaced aging server infrastructure and install new version of Microsoft Configuration Manager. This application deploys software, operating systems, and security patches to workstations and servers within the Xcel Energy network. This project is necessary to upgrade CommodityXL (CXL) to keep the application in line with the latest technology architecture standards and new functionality enhancements made by the vendor. This includes migrating away from Oracle 11G that is no longer supported. This project leverages automation technologies, such as robotic process automation, smart workflows, and natural language processing to streamline workflows. For example, the tool can be used to automate what had been a time-consuming, manually created report, reducing errors and freeing personnel to focus on higher value work.
19	Electric General - Software	Harkness	Aging Technology	(205.50)	(205.50)	-	(205.50)	
20	Electric General - Software	Harkness	Cyber Security	2,421.62	2,421.62	-	2,421.62	
21	Electric General - Software	Harkness	PTT	1,427.38	1,426.80	-	1,426.80	
22	Electric General - Software	Harkness	Aging Technology	(729.10)	(714.46)	-	(714.46)	
23	Electric General - Software	Harkness	Enhance Capabilities	9,065.28	9,074.22	-	9,074.22	
24	Electric General - Software	Harkness	Aging Technology	3,169.17	3,200.01	-	3,200.01	
25	Electric General - Software	Harkness	Aging Technology	(3,833.76)	(3,807.76)	-	(3,807.76)	
26	Electric General - Software	Harkness	Enhance Capabilities	(217.83)	(216.58)	-	(216.58)	
27	Electric General - Software	Harkness	Enhance Capabilities	752,140.94	86,876.68	-	86,876.68	
28	Electric General - Software	Harkness	Aging Technology	(0.01)	-	-	-	
29	Electric General - Software	Harkness	Aging Technology	767,132.20	138,557.47	-	138,557.47	
30	Electric General - Software	Harkness	Enhance Capabilities	233,453.57	12,682.49	-	12,682.49	

Southwestern Public Service Company

Electric General and Software Capital Additions

(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) Project Description
31	Electric General - Software	Harkness	Enhance Capabilities	123,938.95	4,314.98	-	4,314.98	This project is for creating and enabling the basic private cloud services, including virtualization and automation of disaster recovery, network and server creation within contained environments, basic auditing and reporting services, and enabling future public cloud usage.
32	Electric General - Software	Harkness	Enhance Capabilities	47,183.05	3,611.61	-	3,611.61	This project is for creating and enabling the basic private cloud services, including virtualization and automation of disaster recovery, network and server creation within contained environments, basic auditing and reporting services, and enabling future public cloud usage.
33	Electric General - Software	Harkness	Enhance Capabilities	15,844.84	(957.25)	-	(957.25)	This project was necessary to upgrade SharePoint 2007 to the current version (SharePoint 2016 and SharePoint Online). SharePoint is a web application that enables employees to collaborate from across all business units, and to work more efficiently by letting users share documents and data while maintaining security and version control.
34	Software			\$ 1,980,265.81	\$ 285,739.34	\$ -	\$ 285,739.34	These projects involve the purchase of hardware necessary to provide wireless access across Xcel Energy. These projects will enable mobility for those with laptops or tablets, which is more flexible than wired networking.
35	Electric General	Harkness	Enhance Capabilities	\$ 41,508.11	\$ -	\$ -	\$ -	These projects involve the purchase of hardware necessary to provide wireless access across Xcel Energy. These projects will enable mobility for those with laptops or tablets, which is more flexible than wired networking.
36	Electric General	Harkness	Enhance Capabilities	5,273.11	-	-	-	These projects involve the purchase of hardware necessary to provide wireless access across Xcel Energy. These projects will enable mobility for those with laptops or tablets, which is more flexible than wired networking.
37	Electric General	Harkness	Enhance Capabilities	720.33	-	-	-	These projects involve the purchase of hardware necessary to provide wireless access across Xcel Energy. These projects will enable mobility for those with laptops or tablets, which is more flexible than wired networking.
38	Electric General	Harkness	Enhance Capabilities	167,112.26	24,874.58	-	24,874.58	These projects involve the purchase of hardware necessary to provide wireless access across Xcel Energy. These projects will enable mobility for those with laptops or tablets, which is more flexible than wired networking.
39	Electric General	Harkness	Aging Technology	13,864.57	-	-	-	This project is the planned or scheduled replacement of aging personal computers ("PCs"), including laptops and desktops, when they reach the end of their useful lives.
40	Electric General	Harkness	Aging Technology	(4,277.45)	(4,459.70)	-	(4,459.70)	These projects involve expenditures for the planned or scheduled replacement of aging PCs, including laptops and desk tops, when they reach the end of their useful lives, and investment necessary to purchase PCs for new personnel or as replacements for lost or damaged computers as the need arises during the year.
41	Electric General	Harkness	Aging Technology	(1.38)	-	-	-	These are annual projects that provide for the planned, scheduled replacement of aging local area network and wide area network components such as routers and hubs as they reach end of life and fall out of vendor support. Replacement of these components is necessary to ensure continued efficiency and reliable operations.
42	Electric General	Harkness	Aging Technology	7,262.53	7,259.48	-	7,259.48	This project is the planned or scheduled replacement of aging personal computers ("PCs"), including laptops and desktops, when they reach the end of their useful lives.
43	Electric General	Harkness	Cyber Security	129,786.04	-	-	-	This is part of a security camera upgrade project, including the necessary software and cabling. The legacy security camera system was reaching the end-of-life and did not provide the required level of security observation. The new system allows security personnel to work more efficiently.

Southwestern Public Service Company

Electric General and Software Capital Additions

	(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)	Project Description
44	Electric General	Harkness	Aging Technology	1,768,688.92	15,035.32	-	15,035.32	In addition to budgeting and planning for capital spending on known projects, Xcel Energy also knows needs will arise during the year that will require investment even if the specific project is not able to be identified at the start of the budget year. This project includes that type of investment. Specifically, the investment was necessary for wide area network ("WAN") reliability and capacity improvements for transmission and distribution substations, generation facilities, service centers, and third-party sites. It includes replacement of frame relay technology, unplanned circuit improvements, and security upgrades.
45	Electric General	Harkness	Aging Technology	44,169.45	-	-	-	In addition to budgeting and planning for capital spending on known projects, Xcel Energy also knows needs will arise during the year that will require investment even if the specific project is not able to be identified at the start of the budget year. This project includes that type of investment. Specifically, the investment was necessary for wide area network ("WAN") reliability and capacity improvements for transmission and distribution substations, generation facilities, service centers, and third-party sites. It includes replacement of frame relay technology, unplanned circuit improvements, and security upgrades.
46	Electric General	Harkness	Aging Technology	(498.51)	(498.30)	-	(498.30)	This project includes costs for new or replaced local area network and WAN components that are necessary due to changes in facility requirements, including new sites and the remodeling or repurposing of existing facilities.
47	Electric General	Harkness	Aging Technology	742,566.37	9,558.78	-	9,558.78	The WAN SPS project is necessary to implement WAN reliability and capacity improvements for Distribution and Transmission substations, Energy Supply sites, Service Centers and third parties. This project addresses business needs related to increased substation communications reliability; high-speed digital access for operations, maintenance, and security; and the ability to analyze data to improve reliability and operations.
48	Electric General	Harkness	Aging Technology	320,953.57	11,589.47	-	11,589.47	The WAN SPS project is necessary to implement WAN reliability and capacity improvements for Distribution and Transmission substations, Energy Supply sites, Service Centers and third parties. This project addresses business needs related to increased substation communications reliability; high-speed digital access for operations, maintenance, and security; and the ability to analyze data to improve reliability and operations.
49	Electric General	Harkness	Enhance Capabilities	513,028.78	37,920.20	-	37,920.20	This project is necessary to implement new network infrastructure to support SPS wind farms. The project includes installing local and wide-area connections to the construction trailers, the facility buildings, and the collector substations at the wind farm sites.
50	Electric General	Harkness	Aging Technology	2,115,589.23	19,373.21	-	19,373.21	This project includes costs for expanded private radio coverage in SE New Mexico due to replacing aging equipment at an existing site and additional equipment to establish two new radio tower sites. The radio tower sites are necessary for communication with field personnel.
51	Electric General	Harkness	Aging Technology	38,640.39	4,843.34	-	4,843.34	The project will replace aging server infrastructure and install new version of Configuration Manager. This system deploys software, Operating Systems, and security patches to workstations and servers within the Xcel Energy network.

Southwestern Public Service Company

Electric General and Software Capital Additions

(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) Project Description
52	Electric General	Harkness	Aging Technology	81,711.75	-	-	-	This project involves the technical and data storage portions of the Transmission unmanned aircraft system effort and involves integrating data obtained by unmanned aircraft into existing modeling tools and asset condition reports required for NERC compliance and maintenance planning. This annual project includes costs for replacing end-of-life servers, routers, switches, and other hardware that supports electric and gas system operations, including generation, dispatch, transmission, and distribution. Planned PC Refresh is the replacement of aging laptops, desktops, and printers when they reach end-of-life. Planned PC Refresh is the replacement of aging laptops, desktops, and printers when they reach end-of-life.
53	Electric General	Harkness	Aging Technology	145,668.28	34,516.26	-	34,516.26	
54	Electric General	Harkness	Aging Technology	21,304.10	6,183.04	-	6,183.04	
55	Electric General	Harkness	Aging Technology	27,713.09	16,835.08	-	16,835.08	
56	Total Electric General			\$ 6,180,783.54	\$ 183,030.76	\$ -	\$ 183,030.76	
57	Grand Total			\$ 8,161,049.35	\$ 468,770.10	\$ -	\$ 468,770.10	

Southwestern Public Service Company
Property Services Capital Additions

(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)
1	Electric General	Bick	Building & Infrastructure	\$ 266.10	\$ -	\$ -	-
This project includes the construction and buildout cost for the new evidence storage building that services the SPS region to store evidence such as damaged transformers, power poles, etc. This amount includes final payments associated with the project. This project is a new service center constructed due to limited space at the old site, and expanding service area needs within Canyon. The previous site was also problematic because it extended service call response times due the heavily used railroad tracks that had to be crossed to access territory. This new site includes a warehouse; material storage; engineering support; and substation, transmission, distribution line, and service crews. This amount includes final payments associated with the project. The project is remove an old 2 ton roof top air conditioning unit and replace with a 2 ton mini split system at the Anarillo Transportation Center.							
2	Electric General	Bick	Building & Infrastructure	403.45	403.25	-	403.25
3	Electric General	Bick	Building & Infrastructure	8,937.34	-	-	-
4	Total Electric General			\$ 9,606.89	\$ 403.25	\$ -	\$ 403.25
5	Grand Total			\$ 9,606.89	\$ 403.25	\$ -	\$ 403.25

Southwestern Public Service Company
Physical Security Capital Additions

(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)
1	Electric General	Brown	Security - Controls & Monitoring	\$ 1,109,675.58	\$ 1,715.55	\$ -	\$ 1,715.55
This project includes costs for: 1) the Transmission Substation Hardening project to meet requirements for CIP-014, Physical Security of substations and critical control centers; and- 2) the Camera Refresh projects to remove outdated Analog/Digital cameras with IP Cameras.							
2	Electric General	Brown	Security - Controls & Monitoring	197,662.95	448.52	-	448.52
3	Total Electric General			\$ 1,307,338.53	\$ 2,164.07	\$ -	\$ 2,164.07
4	Grand Total			\$ 1,307,338.53	\$ 2,164.07	\$ -	\$ 2,164.07
This project includes costs for the AMAG Panel Refresh Project, which consists of replacement of access control panels that are no longer supported by the manufacturer and have surpassed their shelf and use life as a security system.							

Southwestern Public Service Company

Plant-Related Roll Forwards
Accumulated Depreciation Reserve
July 2017 - June 2019

Line No.	Functional Class	2017					
		July	August	September	October	November	December
Electric Intangible Plant							
1	Accumulated Depreciation Beginning Balance	83,092,178	84,936,471	86,805,278	88,668,309	90,622,834	92,573,009
2	Book Depreciation	1,844,293	1,868,807	1,863,031	1,954,525	1,950,176	1,993,389
3	Retirements	-	-	-	-	-	(916,277)
4	Book Removals	-	-	-	-	-	-
5	Gain/Loss	-	-	-	-	-	-
6	Salvage	-	-	-	-	-	-
7	Transfers & Adjustments	0	(0)	0	(0)	(0)	0
8	Electric Intangible Plant	84,936,471	86,805,278	88,668,309	90,622,834	92,573,009	93,650,121
9	Electric Intangible Plant RWIP	739	739	739	-	-	-
10	Total Electric Intangible including RWIP	84,935,732	86,804,539	88,667,570	90,622,834	92,573,009	93,650,121
Electric Steam Production Plant							
11	Accumulated Depreciation Beginning Balance	947,041,835	951,965,712	951,366,496	950,537,500	953,478,064	955,918,666
12	Book Depreciation	3,485,656	3,484,694	3,480,067	3,479,193	3,487,552	3,498,089
13	Retirements	(415,676)	(3,424,643)	(2,800,027)	(354,210)	(797,811)	(1,404,032)
14	Book Removals	(90,711)	(1,031,521)	(1,472,613)	(203,057)	(256,401)	(295,970)
15	Gain/Loss	-	-	-	-	-	-
16	Salvage	-	347	-	10,481	-	-
17	Transfers & Adjustments	1,944,608	371,908	(36,423)	8,157	7,262	3,792
18	Electric Steam Production Plant	951,965,712	951,366,496	950,537,500	953,478,064	955,918,666	957,720,546
19	Electric Steam Production Plant RWIP	5,594,911	3,763,580	2,312,420	2,348,167	3,339,685	3,696,400
20	Total Electric Steam Production including RWIP	946,370,801	947,602,916	948,225,080	951,129,897	952,578,981	954,024,145
Electric Other Production Plant							
21	Accumulated Depreciation Beginning Balance	76,020,589	76,692,236	77,325,850	77,917,384	78,508,894	79,042,357
22	Book Depreciation	596,813	597,008	597,100	597,233	597,230	590,521
23	Retirements	-	(10,084)	-	-	(58,903)	(7,046,715)
24	Book Removals	-	(2,429)	-	-	(44)	(428,322)
25	Gain/Loss	-	-	-	-	-	-
26	Salvage	-	-	-	-	-	-
27	Transfers & Adjustments	74,835	49,119	(5,566)	(5,722)	(4,821)	3,330
28	Electric Other Production Plant	76,692,236	77,325,850	77,917,384	78,508,894	79,042,357	72,161,171
29	Electric Other Production Plant RWIP	495,946	496,582	436,942	440,970	439,367	20,989
30	Total Electric Other Production including RWIP	76,196,290	76,829,268	77,480,442	78,067,925	78,602,990	72,140,181

Southwestern Public Service Company

Plant-Related Roll Forwards
Accumulated Depreciation Reserve
July 2017 - June 2019

Line No.	Functional Class	2018					
		January	February	March	April	May	June
Electric Intangible Plant							
1	Accumulated Depreciation Beginning Balance	93,650,121	95,646,861	97,644,058	99,639,573	101,618,604	103,602,902
2	Book Depreciation	1,996,740	1,997,197	1,995,516	1,979,031	1,984,298	1,989,618
3	Retirements	-	-	-	-	-	-
4	Book Removals	-	-	-	-	-	-
5	Gain/Loss	-	-	-	-	-	-
6	Salvage	-	-	-	-	-	-
7	Transfers & Adjustments	0	(0)	(0)	0	0	(0)
8	Electric Intangible Plant	95,646,861	97,644,058	99,639,573	101,618,604	103,602,902	105,592,521
9	Electric Intangible Plant RWIP	-	-	-	-	-	-
10	Total Electric Intangible including RWIP	95,646,861	97,644,058	99,639,573	101,618,604	103,602,902	105,592,521
Electric Steam Production Plant							
11	Accumulated Depreciation Beginning Balance	957,720,546	972,072,534	975,584,378	979,098,211	973,678,082	977,172,549
12	Book Depreciation	3,502,190	3,502,994	3,505,230	3,503,932	3,499,836	3,500,694
13	Retirements	-	-	-	(7,147,387)	(1,313,051)	(270,300)
14	Book Removals	-	-	(172)	(1,784,951)	(527,004)	(633,480)
15	Gain/Loss	-	-	-	-	-	-
16	Salvage	-	-	-	40,805	-	-
17	Transfers & Adjustments	10,849,798	8,850	8,775	(32,528)	1,834,686	(1,410)
18	Electric Steam Production Plant	972,072,534	975,584,378	979,098,211	973,678,082	977,172,549	979,768,053
19	Electric Steam Production Plant RWIP	3,821,164	4,103,805	4,061,930	2,970,096	3,740,866	946,201
20	Total Electric Steam Production including RWIP	968,251,370	971,480,573	975,036,281	970,707,986	973,431,682	978,821,852
Electric Other Production Plant							
21	Accumulated Depreciation Beginning Balance	72,161,171	73,274,545	73,861,645	74,448,708	75,027,364	75,792,778
22	Book Depreciation	583,976	584,005	584,002	583,988	584,117	584,335
23	Retirements	-	-	-	(7,053)	(33,975)	(71,693)
24	Book Removals	-	-	-	(1,383)	(9,272)	(21,210)
25	Gain/Loss	-	-	-	-	-	-
26	Salvage	-	-	-	-	-	-
27	Transfers & Adjustments	529,398	3,096	3,061	3,105	224,544	(4,687)
28	Electric Other Production Plant	73,274,545	73,861,645	74,448,708	75,027,364	75,792,778	76,279,523
29	Electric Other Production Plant RWIP	22,424	23,742	33,361	32,692	(1,643,623)	(1,616,077)
30	Total Electric Other Production including RWIP	73,252,121	73,837,903	74,415,347	74,994,673	77,436,402	77,895,600

Southwestern Public Service Company

Plant-Related Roll Forwards
Accumulated Depreciation Reserve
July 2017 - June 2019

Line No.	Functional Class	2018					
		July	August	September	October	November	December
Electric Intangible Plant							
1	Accumulated Depreciation Beginning Balance	105,592,521	107,648,181	109,704,083	111,797,962	113,897,136	116,035,758
2	Book Depreciation	2,055,660	2,055,902	2,093,879	2,099,175	2,138,622	2,186,380
3	Retirements	-	-	-	-	-	(13,598,928)
4	Book Removals	-	-	-	-	-	-
5	Gain/Loss	-	-	-	-	-	-
6	Salvage	-	-	-	-	-	-
7	Transfers & Adjustments	0	(0)	-	0	-	12,693
8	Electric Intangible Plant	107,648,181	109,704,083	111,797,962	113,897,136	116,035,758	104,635,903
9	Electric Intangible Plant RWIP	-	-	-	-	-	-
10	Total Electric Intangible including RWIP	107,648,181	109,704,083	111,797,962	113,897,136	116,035,758	104,635,903
Electric Steam Production Plant							
11	Accumulated Depreciation Beginning Balance	979,768,053	982,975,562	984,455,065	987,695,500	991,219,399	994,755,338
12	Book Depreciation	3,509,511	3,509,383	3,509,983	3,513,870	3,525,934	9,604,937
13	Retirements	(209,801)	(1,401,707)	(215,971)	-	-	-
14	Book Removals	(102,617)	(621,511)	(58,225)	-	(1)	-
15	Gain/Loss	-	-	-	-	-	-
16	Salvage	3,276	-	(4,268)	-	-	-
17	Transfers & Adjustments	7,139	(6,661)	8,916	10,028	10,005	126,162
18	Electric Steam Production Plant	982,975,562	984,455,065	987,695,500	991,219,399	994,755,338	1,004,486,436
19	Electric Steam Production Plant RWIP	913,050	2,277,985	2,459,926	2,372,387	4,840,778	6,058,588
20	Total Electric Steam Production including RWIP	982,062,512	982,177,080	985,235,575	988,847,012	989,914,560	998,427,848
Electric Other Production Plant							
21	Accumulated Depreciation Beginning Balance	76,279,523	76,859,627	77,440,002	78,017,833	78,598,485	79,179,301
22	Book Depreciation	584,482	584,726	584,922	584,935	585,076	585,494
23	Retirements	-	-	-	-	-	-
24	Book Removals	-	-	(2,764)	-	-	-
25	Gain/Loss	-	-	-	-	-	-
26	Salvage	-	-	-	-	-	-
27	Transfers & Adjustments	(4,378)	(4,351)	(4,326)	(4,284)	(4,260)	(4,239)
28	Electric Other Production Plant	76,859,627	77,440,002	78,017,833	78,598,485	79,179,301	79,760,555
29	Electric Other Production Plant RWIP	(1,607,140)	88,099	92,176	93,552	137,087	151,281
30	Total Electric Other Production including RWIP	78,466,766	77,351,902	77,925,657	78,504,933	79,042,213	79,609,274

Southwestern Public Service Company

Plant-Related Roll Forwards
Accumulated Depreciation Reserve
July 2017 - June 2019

Line No.	Functional Class	2019					
		January	February	March	April	May	June
Electric Intangible Plant							
1	Accumulated Depreciation Beginning Balance	104,635,903	106,825,695	109,028,267	111,107,219	113,232,632	115,323,008
2	Book Depreciation	2,190,003	2,202,784	2,079,163	2,125,624	2,102,222	2,074,626
3	Retirements	-	-	-	-	-	-
4	Book Removals	-	-	-	-	-	-
5	Gain/Loss	-	-	-	-	-	-
6	Salvage	-	-	-	-	-	-
7	Transfers & Adjustments	(212)	(212)	(212)	(212)	(11,847)	(0)
8	Electric Intangible Plant	106,825,695	109,028,267	111,107,219	113,232,632	115,323,008	117,397,634
9	Electric Intangible Plant RWIP	-	-	-	-	-	-
10	Total Electric Intangible including RWIP	106,825,695	109,028,267	111,107,219	113,232,632	115,323,008	117,397,634
Electric Steam Production Plant							
11	Accumulated Depreciation Beginning Balance	1,004,486,436	1,008,605,160	1,012,725,911	1,016,604,367	1,020,085,485	1,027,180,842
12	Book Depreciation	4,098,842	4,100,950	4,042,338	4,034,955	4,011,293	4,033,486
13	Retirements	-	-	(34,441)	(427,595)	(228,575)	(16,829)
14	Book Removals	-	-	(26,820)	(126,242)	(25,405)	(21,740)
15	Gain/Loss	-	-	-	-	-	-
16	Salvage	-	-	-	-	-	-
17	Transfers & Adjustments	19,882	19,801	(102,621)	0	3,338,044	(64,748)
18	Electric Steam Production Plant	1,008,605,160	1,012,725,911	1,016,604,367	1,020,085,485	1,027,180,842	1,031,111,011
19	Electric Steam Production Plant RWIP	6,171,115	6,329,622	7,350,449	8,411,914	9,812,307	12,000,980
20	Total Electric Steam Production including RWIP	1,002,434,045	1,006,396,289	1,009,253,918	1,011,673,571	1,017,368,535	1,019,110,031
Electric Other Production Plant							
21	Accumulated Depreciation Beginning Balance	79,760,555	80,342,130	80,923,750	81,754,385	82,339,639	83,190,981
22	Book Depreciation	585,783	585,795	585,259	585,254	594,065	1,534,630
23	Retirements	-	-	(11,692)	-	-	-
24	Book Removals	-	-	(42,933)	-	-	-
25	Gain/Loss	-	-	-	-	-	-
26	Salvage	-	-	300,000	-	-	-
27	Transfers & Adjustments	(4,209)	(4,175)	0	0	257,277	3,729
28	Electric Other Production Plant	80,342,130	80,923,750	81,754,385	82,339,639	83,190,981	84,729,340
29	Electric Other Production Plant RWIP	154,691	(469,701)	(504,099)	(2,970,414)	1,016,932	981,640
30	Total Electric Other Production including RWIP	80,187,439	81,393,451	82,258,484	85,310,052	82,174,048	83,747,700

Southwestern Public Service Company

Plant-Related Roll Forwards
Accumulated Depreciation Reserve
July 2017 - June 2019

Line No.	Functional Class	2017					
		July	August	September	October	November	December
Electric Transmission Plant							
31	Accumulated Depreciation Beginning Balance	471,595,715	459,528,613	475,983,098	477,264,392	482,279,148	479,742,760
32	Book Depreciation	4,999,203	5,003,048	5,004,472	5,024,238	5,073,533	5,115,567
33	Retirements	(1,369,768)	(469,496)	(3,207,845)	-	(6,447,025)	(30,511)
34	Book Removals	(1,186,933)	(2,696,666)	(843,332)	2,511	(1,234,634)	(465,213)
35	Gain/Loss	-	-	-	-	-	-
36	Salvage	11,927	617	334,550	-	87,590	-
37	Transfers & Adjustments	(14,521,531)	14,616,982	(6,550)	(11,994)	(15,852)	(135)
38	Electric Transmission Plant	459,528,613	475,983,098	477,264,392	482,279,148	479,742,760	484,362,468
39	Electric Transmission Plant RWIP	27,614,232	25,426,900	25,010,333	26,260,196	26,933,114	34,363,928
40	Total Electric Transmission including RWIP	431,914,381	450,556,198	452,254,059	456,018,952	452,809,646	449,998,540
Electric Distribution Plant							
41	Accumulated Depreciation Beginning Balance	359,130,354	361,196,551	362,135,976	362,817,366	365,024,409	365,298,166
42	Book Depreciation	2,698,685	2,710,080	2,723,042	2,734,620	2,743,876	2,741,567
43	Retirements	(300,361)	(235,195)	(825,837)	(561,386)	(1,204,478)	(4,571,939)
44	Book Removals	(332,127)	(1,592,438)	(1,662,352)	33,809	(1,275,580)	(907,475)
45	Gain/Loss	-	-	-	-	-	-
46	Salvage	-	56,976	446,537	-	9,941	-
47	Transfers & Adjustments	-	-	-	0	-	-
48	Electric Distribution Plant	361,196,551	362,135,976	362,817,366	365,024,409	365,298,166	362,560,319
49	Electric Distribution Plant RWIP	6,683,474	7,594,538	7,190,251	8,304,545	8,138,192	6,215,128
50	Total Electric Distribution including RWIP	354,513,078	354,541,438	355,627,115	356,719,863	357,159,974	356,345,192
Electric General Plant							
51	Accumulated Depreciation Beginning Balance	161,844,120	164,141,785	165,997,669	166,037,595	168,674,834	167,342,236
52	Book Depreciation	2,341,723	1,884,250	2,409,289	2,424,081	2,993,861	2,428,876
53	Retirements	-	(35,244)	(1,083,136)	-	(4,322,182)	(3,245,453)
54	Book Removals	-	(8)	(41,604)	(3,316)	(68,610)	(6,709)
55	Gain/Loss	-	-	-	-	-	-
56	Salvage	-	(5,600)	(8,200)	144,699	-	-
57	Transfers & Adjustments	(44,058)	12,486	(1,236,424)	71,775	64,332	104,677
58	Electric General Plant	164,141,785	165,997,669	166,037,595	168,674,834	167,342,236	166,623,628
59	Electric General Plant RWIP	132,660	40,192	10,388	(419,757)	(259,000)	219,757
60	Total Electric General including RWIP	164,009,126	165,957,477	166,027,207	169,094,591	167,601,236	166,403,871
61	Total Electric Utility	2,098,461,369	2,119,614,367	2,123,242,546	2,138,588,182	2,139,917,194	2,137,078,252
	Total Electric Utility RWIP	40,521,962	37,322,532	34,961,075	36,934,121	38,591,357	44,516,202
	Total Electric Utility including RWIP	2,057,939,407	2,082,291,835	2,088,281,472	2,101,654,061	2,101,325,837	2,092,562,050

Southwestern Public Service Company

Plant-Related Roll Forwards
Accumulated Depreciation Reserve
July 2017 - June 2019

Line No.	Functional Class	2018					
		January	February	March	April	May	June
Electric Transmission Plant							
31	Accumulated Depreciation Beginning Balance	484,362,468	487,637,188	492,288,841	497,613,764	494,284,682	486,383,748
32	Book Depreciation	5,132,166	5,159,025	5,259,397	5,371,485	5,479,095	5,570,614
33	Retirements	(1,069,829)	(471,195)	223,746	(3,871,260)	(9,962,590)	(5,234,246)
34	Book Removals	(484,660)	(30,256)	(163,167)	(4,951,560)	(3,568,472)	(1,372,985)
35	Gain/Loss	-	-	-	-	-	689,868
36	Salvage	256	-	12,506	109,389	21,048	186,915
37	Transfers & Adjustments	(303,214)	(5,921)	(7,559)	12,864	129,984	(10,491)
38	Electric Transmission Plant	487,637,188	492,288,841	497,613,764	494,284,682	486,383,748	486,213,423
39	Electric Transmission Plant RWIP	35,577,145	35,932,926	38,200,852	35,247,496	34,274,426	34,590,472
40	Total Electric Transmission including RWIP	452,060,043	456,355,914	459,412,912	459,037,187	452,109,322	451,622,952
Electric Distribution Plant							
41	Accumulated Depreciation Beginning Balance	362,560,319	363,019,475	364,856,181	367,407,547	359,812,519	361,581,706
42	Book Depreciation	2,727,030	2,767,179	2,787,438	2,782,352	2,783,618	2,797,952
43	Retirements	(804,047)	(356,644)	-	(10,220,900)	(577,632)	(460,646)
44	Book Removals	(1,463,827)	(600,527)	(252,414)	(215,529)	(566,987)	(2,220,544)
45	Gain/Loss	-	-	-	-	-	-
46	Salvage	-	26,699	16,343	59,048	130,188	53,380
47	Transfers & Adjustments	-	-	-	0	-	-
48	Electric Distribution Plant	363,019,475	364,856,181	367,407,547	359,812,519	361,581,706	361,751,847
49	Electric Distribution Plant RWIP	6,233,062	6,207,856	6,542,488	6,574,795	6,532,333	5,001,206
50	Total Electric Distribution including RWIP	356,786,413	358,648,325	360,865,059	353,237,724	355,049,374	356,750,641
Electric General Plant							
51	Accumulated Depreciation Beginning Balance	166,623,628	170,730,829	173,231,473	175,761,123	177,542,539	180,147,553
52	Book Depreciation	2,474,103	2,426,566	2,468,197	2,491,613	2,485,910	2,479,547
53	Retirements	-	-	-	(910,515)	-	(191,278)
54	Book Removals	-	-	-	(42,936)	-	-
55	Gain/Loss	-	-	-	-	-	191,278
56	Salvage	-	-	2,500	181,326	-	-
57	Transfers & Adjustments	1,633,098	74,079	58,953	61,927	119,104	(142,835)
58	Electric General Plant	170,730,829	173,231,473	175,761,123	177,542,539	180,147,553	182,484,265
59	Electric General Plant RWIP	181,374	344,028	528,420	620,419	470,762	563,832
60	Total Electric General including RWIP	170,549,454	172,887,445	175,232,703	176,922,120	179,676,791	181,920,433
61	Total Electric Utility	2,162,381,431	2,177,466,575	2,193,968,927	2,181,963,791	2,184,681,236	2,192,089,633
	Total Electric Utility RWIP	45,835,168	46,612,358	49,367,051	45,445,498	43,374,764	39,485,634
	Total Electric Utility including RWIP	2,116,546,262	2,130,854,218	2,144,601,876	2,136,518,293	2,141,306,473	2,152,603,999

Southwestern Public Service Company

Plant-Related Roll Forwards
Accumulated Depreciation Reserve
July 2017 - June 2019

Line No.	Functional Class	2018					
		July	August	September	October	November	December
Electric Transmission Plant							
31	Accumulated Depreciation Beginning Balance	486,213,423	493,925,916	495,681,473	499,394,947	499,023,770	504,129,637
32	Book Depreciation	5,598,570	5,611,576	5,624,755	5,633,647	5,649,578	5,692,921
33	Retirements	3,354,761	(2,734,868)	(331,094)	(3,753,847)	(304,778)	(1,248,305)
34	Book Removals	(531,272)	(1,116,055)	(1,576,263)	(2,297,488)	(239,345)	(714,378)
35	Gain/Loss	(689,868)	-	-	-	-	-
36	Salvage	908	594	-	54,756	-	75,828
37	Transfers & Adjustments	(20,606)	(5,690)	(3,924)	(8,244)	411	(1,620)
38	Electric Transmission Plant	493,925,916	495,681,473	499,394,947	499,023,770	504,129,637	507,934,083
39	Electric Transmission Plant RWIP	36,114,193	36,227,944	36,156,105	34,784,990	36,375,181	36,149,950
40	Total Electric Transmission including RWIP	457,811,722	459,453,529	463,238,842	464,238,781	467,754,456	471,784,133
Electric Distribution Plant							
41	Accumulated Depreciation Beginning Balance	361,751,847	363,332,732	364,042,773	366,191,471	367,944,626	369,731,285
42	Book Depreciation	2,811,469	2,826,263	2,837,287	2,848,328	2,862,579	2,885,410
43	Retirements	(1,062,400)	(1,569,396)	(288,419)	(581,120)	(463,646)	(4,457,311)
44	Book Removals	(213,214)	(561,936)	(522,280)	(551,725)	(603,455)	(678,156)
45	Gain/Loss	-	-	-	11,074	-	-
46	Salvage	45,030	15,111	122,110	26,597	(8,819)	147
47	Transfers & Adjustments	-	-	(0)	-	-	-
48	Electric Distribution Plant	363,332,732	364,042,773	366,191,471	367,944,626	369,731,285	367,481,375
49	Electric Distribution Plant RWIP	5,289,302	5,120,620	5,356,592	5,313,807	5,379,301	6,186,177
50	Total Electric Distribution including RWIP	358,043,430	358,922,153	360,834,880	362,630,819	364,351,983	361,295,198
Electric General Plant							
51	Accumulated Depreciation Beginning Balance	182,484,265	184,832,754	187,752,142	190,125,285	191,945,214	194,664,583
52	Book Depreciation	2,507,852	2,518,829	2,553,842	2,550,779	2,652,424	2,613,348
53	Retirements	(157,229)	(82,088)	-	(767,061)	-	(319,942)
54	Book Removals	(57,346)	(6,294)	(235,838)	(23,357)	1	(56)
55	Gain/Loss	-	(80,274)	-	-	-	-
56	Salvage	-	511,269	-	-	-	-
57	Transfers & Adjustments	55,212	57,946	55,139	59,568	66,944	68,833
58	Electric General Plant	184,832,754	187,752,142	190,125,285	191,945,214	194,664,583	197,026,767
59	Electric General Plant RWIP	479,345	764,860	355,127	364,549	600,909	940,773
60	Total Electric General including RWIP	184,353,410	186,987,281	189,770,158	191,580,665	194,063,674	196,085,994
61	Total Electric Utility	2,209,574,771	2,219,075,538	2,233,222,998	2,242,628,630	2,258,495,901	2,261,325,120
	Total Electric Utility RWIP	41,188,750	44,479,509	44,419,925	42,929,285	47,333,258	49,486,770
	Total Electric Utility including RWIP	2,168,386,021	2,174,596,029	2,188,803,073	2,199,699,345	2,211,162,644	2,211,838,350

Southwestern Public Service Company

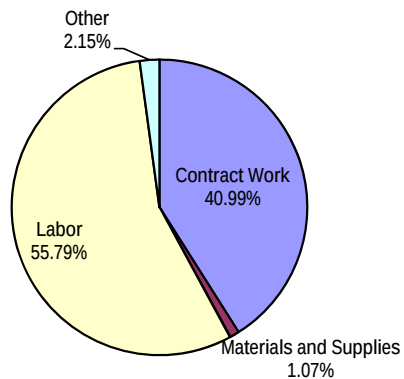
Plant-Related Roll Forwards
Accumulated Depreciation Reserve
July 2017 - June 2019

Line No.	Functional Class	2019					
		January	February	March	April	May	June
Electric Transmission Plant							
31	Accumulated Depreciation Beginning Balance	507,934,083	499,922,795	504,778,520	509,852,159	513,756,109	517,161,748
32	Book Depreciation	5,720,836	5,737,018	5,775,725	5,762,336	5,944,383	6,091,584
33	Retirements	(4,420,515)	(307,345)	(502,227)	(957,068)	(440,882)	(279,698)
34	Book Removals	(9,436,527)	(574,466)	(200,394)	(939,224)	(2,350,570)	(185,630)
35	Gain/Loss	-	-	-	-	-	-
36	Salvage	103,499	-	-	37,905	2,249	5,269
37	Transfers & Adjustments	21,419	519	535	(0)	250,460	(250,460)
38	Electric Transmission Plant	499,922,795	504,778,520	509,852,159	513,756,109	517,161,748	522,542,813
39	Electric Transmission Plant RWIP	28,346,228	28,562,374	29,872,288	30,309,743	27,545,201	28,020,098
40	Total Electric Transmission including RWIP	471,576,567	476,216,146	479,979,872	483,446,366	489,616,547	494,522,715
Electric Distribution Plant							
41	Accumulated Depreciation Beginning Balance	367,481,375	368,508,490	368,858,812	372,193,488	369,641,251	370,963,170
42	Book Depreciation	2,910,180	2,925,140	2,936,685	2,949,024	2,967,179	3,570,825
43	Retirements	(1,070,117)	(2,104,607)	(613,879)	(1,873,776)	(960,172)	9,122,984
44	Book Removals	(816,579)	(470,211)	(1,173,566)	(3,661,026)	(685,396)	(653,407)
45	Gain/Loss	-	-	-	-	-	-
46	Salvage	3,632	-	2,185,971	33,542	308	115,800
47	Transfers & Adjustments	-	(0)	(535)	-	-	0
48	Electric Distribution Plant	368,508,490	368,858,812	372,193,488	369,641,251	370,963,170	383,119,372
49	Electric Distribution Plant RWIP	5,745,938	6,067,628	7,950,609	5,490,063	6,085,042	7,062,271
50	Total Electric Distribution including RWIP	362,762,552	362,791,184	364,242,879	364,151,189	364,878,128	376,057,102
Electric General Plant							
51	Accumulated Depreciation Beginning Balance	197,026,767	199,752,367	202,480,852	203,314,770	206,130,784	209,079,261
52	Book Depreciation	2,654,901	2,661,531	2,695,031	2,689,415	2,714,774	2,766,054
53	Retirements	-	-	(1,176,384)	-	-	(6,140,505)
54	Book Removals	1,335	(1,954)	(619)	(2,982)	(90,767)	-
55	Gain/Loss	-	-	-	-	-	-
56	Salvage	-	-	-	-	-	-
57	Transfers & Adjustments	69,365	68,908	(684,110)	129,580	324,470	93,398
58	Electric General Plant	199,752,367	202,480,852	203,314,770	206,130,784	209,079,261	205,798,207
59	Electric General Plant RWIP	416,386	443,713	527,911	155,172	51,117	(31,967)
60	Total Electric General including RWIP	199,335,981	202,037,139	202,786,860	205,975,612	209,028,143	205,830,174
61	Total Electric Utility	2,263,956,637	2,278,796,114	2,294,826,389	2,305,185,899	2,322,899,009	2,344,698,377
	Total Electric Utility RWIP	40,834,358	40,933,637	45,197,157	41,396,478	44,510,600	48,033,022
	Total Electric Utility including RWIP	2,223,122,279	2,237,862,477	2,249,629,232	2,263,789,422	2,278,388,409	2,296,665,355

Southwestern Public Service Company**Affiliate Charge, April 1, 2019 through June 30, 2019****Separated by Cost Component****Total Affiliate Charges****Cost Component Breakdown of Affiliate Costs in Plant Additions**

	<u>Software</u> <u>Work Orders</u>	<u>All Other</u> <u>Work Orders</u>	<u>Total Affiliate</u>	<u>Percentage</u> <u>of Total</u>
Contract Work	\$ 187,597	\$ 835,204	\$ 1,022,801	40.99%
Materials and Supplies	51	26,600	26,651	1.07%
Labor	76,990	1,315,104	1,392,094	55.79%
Other	21,101	32,439	53,540	2.15%
\$	285,739	\$ 2,209,347	\$ 2,495,086	100.00%

	<u>Software</u> <u>Work Orders</u>	<u>All Other</u> <u>Work Orders</u>	<u>Total Affiliate</u>
Contract Work	18.34%	81.66%	100.00%
Materials and Supplies	0.19%	99.81%	100.00%
Labor	5.53%	94.47%	100.00%
Other	39.41%	60.59%	100.00%
	11.45%	88.55%	100.00%

Affiliate Charges by Cost Component

Southwestern Public Service Company

Affiliate Charge, April 1, 2019 through June 30, 2019
Separated by Cost Component
Total Affiliate Charges

(A)		(B)		(C)		(D)	(E)		(F)	(G)	(H)	(I)
Line No.	Work Order Number	Work Order Description	Asset Class	Witness	Materials and Supplies	Contract Work	Labor	Other	Total			
1	A.0000105.008.001.001	230KV K45 Reconnector Plant X to To	Electric Transmission	Cooley	\$ -	\$ -	\$ 1,991.83	-	\$ 1,991.83			
2	A.0000194.001.001.002	COCHRAN 115KV 28 MVAR CAP BANKS	Electric Transmission	Cooley	-	-	165.71	-	165.71			
3	A.0000194.008.001.001	Cochran Whiteface Z26 Rebuild	Electric Transmission	Cooley	-	371.44	138.93	3.71	514.08			
4	A.0000220.006.001.066	Lynn Co Int- RPL BKR 7850	Electric Transmission	Cooley	-	183.44	-	3.71	187.15			
5	A.0000290.003.001.002	K23 EDCO-CNST RETERMINATE AT EDDY C	Electric Transmission	Cooley	-	-	194.99	-	194.99			
6	A.0000290.005.001.002	CUNNINGHAM K23 LN TERM UPRGR TO EDDY	Electric Transmission	Cooley	-	-	224.35	18.03	242.38			
7	A.0000290.006.001.002	SEVEN RIVERS 230KV EDDY CNTY LN RLY	Electric Transmission	Cooley	-	-	898.01	-	898.01			
8	A.0000296.006.001.001	LA PLATA 115/13KV XFMR HIGH SIDE-TA	Electric Transmission	Cooley	-	-	18.35	-	18.35			
9	A.0000296.008.001.001	NE HEREFORD - 115KV TERMINAL TO CEN	Electric Transmission	Cooley	-	-	154.21	-	154.21			
10	A.0000350.001.001.002	INST 115KV SW SUB REIMB	Electric Transmission	Cooley	-	-	38.00	-	38.00			
11	A.0000424.037.001.002	I20 HOBBS KIWA 345KV NEW 48 MILE LI	Electric Transmission	Cooley	-	216.00	-	2.16	218.16			
12	A.0000424.045.001.001	HOBBS-NEW 345KV KIOWA TERMINAL INST	Electric Transmission	Cooley	-	-	154.21	-	154.21			
13	A.0000424.068.001.002	LIVINGSTON RIDGE-CONVERT 69KV TO 11	Electric Transmission	Cooley	-	-	113.95	-	113.95			
14	A.0000424.087.001.002	I22 NOLLO CHDW 345KV NEW 18 MILE LIN	Electric Transmission	Cooley	-	216.00	-	2.16	218.16			
15	A.0000424.088.001.003	I23 Kiowa RDRN 345KV Retermination	Electric Transmission	Cooley	-	-	324.43	-	324.43			
16	A.0000424.093.001.002	ROADRUNNER - 345KV LINE CONVERSION	Electric Transmission	Cooley	-	-	187.90	-	187.90			
17	A.0000424.120.001.002	N Lov-Lov S ROW U18	Electric Transmission	Cooley	-	1,133.82	-	12.60	1,146.42			
18	A.0000424.136.001.002	INSTALL - W26 115KV MONUMENT TAP TO	Electric Transmission	Cooley	-	-	607.31	-	607.31			
19	A.0000424.143.001.003	U08 INWE TAP IMC1 115KV REBUILD	Electric Transmission	Cooley	-	-	194.99	-	194.99			
20	A.0000424.144.001.003	U08 IMC1 LSRI 115KV REBUILD	Electric Transmission	Cooley	-	2,246.75	195.02	27.20	2,468.97			
21	A.0000424.145.001.003	U08 PTJU INWE TAP 115KV REBUILD	Electric Transmission	Cooley	-	-	194.99	-	194.99			
22	A.0000424.150.001.002	OPIE PTJU Intrepid Term Sub	Electric Transmission	Cooley	-	-	741.12	-	741.12			
23	A.0000424.165.001.002	NORTH LOVING - 345/115KV TRANSFORMER	Electric Transmission	Cooley	-	1,177.00	-	11.77	1,188.77			
24	A.0000424.173.001.001	W39 ENTERPRISE TAP SWITCH COMMUNICATION	Electric General	Cooley	-	-	400.96	-	400.96			
25	A.0000463.015.001.004	Greyhound-Portales South ROW	Electric Transmission	Cooley	-	-	174.98	19.60	194.58			
26	A.0000469.015.001.004	Z263 MLR REHAB SCHLD REPL EOL ARMS	Electric Transmission	Cooley	-	656.88	221.72	8.21	886.81			
27	A.0000481.012.001.001	PURCH 250MVA TF COMPANY RESERVE	Electric Transmission	Cooley	-	-	175.63	-	175.63			
28	A.0000488.009.001.002	OCHOA INST BRK FAILURE TRANS TRIP R	Electric Transmission	Cooley	-	-	36.67	-	36.67			
29	A.0000494.001.001.002	SEMINOLE INTG REPL EAST 230115KV XF	Electric Transmission	Cooley	-	1,810.77	73.49	18.11	1,902.37			
30	A.0000499.013.001.002	T58 CARG-HFRD SCHLD MAINT ELR	Electric Transmission	Cooley	-	-	1,849.11	-	1,849.11			
31	A.0000499.017.001.001	T14 MADX TLSS 115KV SSWT INST MOD C	Electric General	Cooley	-	-	-	35.76	35.76			
32	A.0000511.004.001.001	WOLFORTH INTERCHANGE 230KV RING BU	Electric Transmission	Cooley	-	300.04	-	3.00	303.04			
33	A.0000513.004.001.001	Denver City Breaker W970 Replacement	Electric Transmission	Cooley	-	-	36.67	-	36.67			
34	A.0000513.005.001.001	Denver City Breaker W900 Replacement	Electric Transmission	Cooley	-	-	38.00	-	38.00			
35	A.0000519.001.001.001	ROOSEVELT - 230KV DOUBLE BUS EXPANS	Electric Transmission	Cooley	-	-	-	19.14	19.14			
36	A.0000540.001.001.002	W92-EAGLE CREEK TO ATOKA-NEW 115KV	Electric Transmission	Cooley	-	-	472.93	-	472.93			
37	A.0000553.001.001.001	DIAMONDBACK - 115KV LYNTEGAR WELCH	Electric Transmission	Cooley	-	-	7,889.58	-	7,889.58			
38	A.0000588.011.001.002	Moore Co RTU replacement	Electric General	Cooley	-	-	104.24	-	104.24			
39	A.0000616.001.001.001	SONCY - 115KV BUS BUILD	Electric Transmission	Cooley	-	-	143.03	-	143.03			
40	A.0000640.020.001.001	TEXAS CITY-ELR 115KV CB 800.804 BKRS	Electric Transmission	Cooley	-	-	18.99	-	18.99			
41	A.0000640.021.001.001	HITCHLAND 115KV LN W07 W09 RELAY MO	Electric Transmission	Cooley	-	-	55.02	-	55.02			
42	A.0000663.001.001.002	SNOW-Rep 230KV Wave Trap	Electric Transmission	Cooley	-	-	256.75	-	256.75			
43	A.0000663.002.001.002	AMSS-Rep 230KV Wave Trap	Electric Transmission	Cooley	-	-	18.35	-	18.35			
44	A.0000663.005.001.002	K03-Raise Str 657	Electric Transmission	Cooley	-	-	214.01	-	214.01			
45	A.0000673.026.001.002	NM STATELINE TO HOBBS J18 ROW	Electric Transmission	Cooley	-	-	75.14	-	75.14			
46	A.0000710.001.001.001	ROOSEVELT COUNTY INFRASTRUCTURE UPG	Electric Transmission	Cooley	-	-	18.35	-	18.35			
47	A.0000710.003.001.001	HARRINGTON INFRASTRUCTURE UPGRADES	Electric Transmission	Cooley	-	-	18.35	-	18.35			
48	A.0000710.003.001.004	TOLK INFRASTRUCTURE UPGRADE	Electric Transmission	Cooley	-	-	18.35	-	18.35			

Southwestern Public Service Company

Affiliate Charge, April 1, 2019 through June 30, 2019

Separated by Cost Component

Total Affiliate Charges

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
Line No.	Work Order Number	Work Order Description	Asset Class	Witness	Materials and Supplies	Contract Work	Labor	Other	Total
49	A.0000710.003.001.005	PLANT X INFRASTRUCTURE UPGRADES	Electric Transmission	Cooley	-	6,282.49	18.99	62.83	6,364.31
50	A.0000710.003.001.006	YOAKUM INFRASTRUCTURE UPGRADE	Electric Transmission	Cooley	-	-	18.35	-	18.35
51	A.0000710.008.001.010	TUCO SECURITY CAMERA UPGRADE COMM	Electric General	Cooley	-	-	73.36	-	73.36
52	A.0000736.002.001.001	NEEDMORE NEW 230KV SUBSTATION	Electric Transmission	Cooley	-	-	18.09	-	18.09
53	A.0000768.001.001.001	BLANCO - NEW 115KV SWITCHING STATIO	Electric Transmission	Cooley	-	-	110.06	-	110.06
54	A.0000795.001.001.005	T70 SOGE - CLTR OPGW	Electric Transmission	Cooley	-	-	581.08	-	581.08
55	A.0000846.001.001.003	DENVER CITY - 115KV BREAKER RELAY A	Electric Transmission	Cooley	-	-	38.00	-	38.00
56	A.0000902.001.001.001	TUCO ? ADD 230KV HALE WIND TERMINAL	Electric Transmission	Cooley	-	-	992.15	-	992.15
57	A.0000916.010.001.001	PLANT X230KV LRU TO DEAF SMITH K21	Electric Transmission	Cooley	-	-	945.00	-	945.00
58	A.0000946.001.001.001	PCA - UPGRADE TERMINAL TO CARLSBAD	Electric Transmission	Cooley	-	-	75.05	-	75.05
59	A.0001008.002.001.002	MAHY-NEW 230KV SW SUB	Electric Transmission	Cooley	-	-	56.09	-	56.09
60	A.0001008.005.001.001	AWOR RELAY UPGRADE SUB	Electric Transmission	Cooley	-	-	36.18	-	36.18
61	A.0001008.006.001.001	BRU RELAY UPGRADE SUB	Electric Transmission	Cooley	-	-	92.27	-	92.27
62	A.0001008.009.001.001	R11 230KV BRU Mahoney TLINE	Electric Transmission	Cooley	-	-	195.02	-	195.02
63	A.0001008.010.001.001	R12 230KV AWOR Mahoney TLINE	Electric Transmission	Cooley	-	-	195.02	-	195.02
64	A.0001067.001.001.001	Lubbock East K57 Relay Upgrade	Electric Transmission	Cooley	-	-	911.72	-	911.72
65	A.0001067.003.001.001	Lubbock East Communication	Electric General	Cooley	-	-	308.41	-	308.41
66	A.0001097.002.001.001	INST 277 69KV SW	Electric Transmission	Cooley	-	-	18.99	-	18.99
67	A.0001118.006.001.001	Lock and Key System SPS TX	Electric General	Cooley	-	6,765.34	4,342.97	65.52	11,173.83
68	A.0001156.001.001.001	INST 1 WAY 115KV W72 MATADOR SWITCH	Electric Transmission	Cooley	-	-	4,077.16	20.85	4,098.01
69	A.0001183.004.001.002	U19 PLAINS TO LTDW LINE RATING	Electric Transmission	Cooley	-	-	3,813.11	-	3,813.11
70	A.0001267.001.001.002	345 115KV 448MVA XmpareSub	Electric Transmission	Cooley	-	-	250.51	-	250.51
71	A.0001272.001.001.002	CARGILL INST 144 MVAR CAP BK	Electric Transmission	Cooley	-	-	6,952.06	-	6,952.06
72	A.0001285.001.001.002	U03 NEF-TARGA 115KV RECON	Electric Transmission	Cooley	-	-	603.85	-	603.85
73	A.0001300.009.001.002	Reterm 115KV Line Roswell City T24	Electric Transmission	Cooley	-	-	18.35	-	18.35
74	A.0001300.013.001.002	ROSWELL INTG 115KV BKR ONE HALF	Electric Transmission	Cooley	-	392.96	53.97	3.93	450.86
75	A.0001300.014.001.002	Wreckout Rebuilt 115KV Line U13	Electric Transmission	Cooley	-	31,941.25	-	298.30	32,239.55
76	A.0001300.025.001.001	Z09 RSWL - BSHR RBLD STR 2 TO 10	Electric Transmission	Cooley	-	-	15.99	-	15.99
77	A.0001312.003.001.002	CARDINAL REPL 115KV T85 JUMPERS	Electric Transmission	Cooley	-	-	(2,962.72)	-	(2,962.72)
78	A.0001312.004.001.002	U03 115KV TARGA CARDINAL RECONDUCTO	Electric Transmission	Cooley	-	-	2,962.72	-	2,962.72
79	A.0001319.005.001.002	W40 REBUILD PANDA TAP TO DEAF SMITH	Electric Transmission	Cooley	-	-	162.13	-	162.13
80	A.0001319.007.001.002	W40 REBUILD CANYON WEST TO DAWN	Electric Transmission	Cooley	-	7,466.24	-	62.87	7,529.11
81	A.0001319.011.001.003	DEAF SMITH W40 UPGRADE	Electric Transmission	Cooley	-	-	17,741.50	-	17,741.50
82	A.0001326.001.001.002	YOAKUM RPLC 230115KV GKT 1 TRANSFOR	Electric Transmission	Cooley	-	(1,228.71)	4,717.33	10.51	3,499.13
83	A.0001529.032.001.002	MADIC-Rpl M1 Elevator	Electric Production	Lyal	-	-	490.20	-	490.20
84	A.0001545.046.001.002	CHCOC-Returb Plant Bathroom	Electric Production	Lyal	-	-	780.77	-	780.77
85	A.0001545.500.001.011	CHCOC-Rpl Elevator Gearbox	Electric Production	Lyal	-	-	245.11	-	245.11
86	A.0001550.244.001.002	HAROC-Rpl SBAC Controls	Electric Production	Lyal	1,353.77	-	6,236.65	-	7,590.42
87	A.0001550.473.001.002	HAR3C-Inst Online Vib Mntnr Sys	Electric Production	Lyal	-	-	71.00	-	71.00
88	A.0001550.500.001.029	HARIC-Rpl #2 Corner Tilt Drives	Electric Production	Lyal	-	-	91.26	-	91.26
89	A.0001550.500.001.034	HAROC-Inst Vlv on BD Recovery	Electric Production	Lyal	-	-	1,181.21	-	1,181.21
90	A.0001554.501.001.002	QUAIC-Rpl Starting Diesel Rad	Electric Production	Lyal	-	860.72	5,634.67	8.61	6,504.00
91	A.0001555.296.001.002	TOL2C-Rpl Main Pwr Transformer	Electric Production	Lyal	-	-	798.65	-	798.65
92	A.0001555.500.001.031	TOL0C-Inst SwingGates&LadderProt	Electric Production	Lyal	-	8,269.70	33.38	89.99	8,393.07
93	A.0001586.285.001.002	ION2C-Rpl Circ Pump Suc Hood	Electric Production	Lyal	-	-	720.96	-	720.96
94	A.0001586.287.001.002	ION2C-Rpl CIT Makeup Piping	Electric Production	Lyal	-	-	720.96	-	720.96
95	A.0005521.085.001.023	HASTINGS - ELR 3 DIST BKRS	Electric Distribution	Weeks	-	3,204.00	3,514.31	32.04	6,750.35
96	A.0005521.085.001.026	SFE-DENVER CITY E- RPL BKRS S100 S1	Electric Distribution	Weeks	-	-	52.11	-	52.11

Southwestern Public Service Company

Affiliate Charge, April 1, 2019 through June 30, 2019

Separated by Cost Component

Total Affiliate Charges

(A)		(B)		(C)	(D)	(E)	(F)	(G)	(H)	(I)
Line No.	Work Order Number	Work Order Description	Asset Class	Witness	Materials and Supplies	Contract Work	Labor	Other	Total	
97	A.0005522.130.001.001	SONCY - DISTRIBUTION TRANSFORMER CO	Electric Distribution	Meeks	-	-	5,843.22	-	5,843.22	
98	A.0005522.370.001.002	SIERRA NEW 115KV1247KV SUB DAM	Electric Distribution	Meeks	-	-	75.97	-	75.97	
99	A.0005549.009.001.050	SKUNK CREEK NEW DIST SUB COMM	Electric General	Meeks	-	-	208.49	-	208.49	
100	A.0005549.009.001.108	Dawn Sub Communications	Electric General	Meeks	-	-	18.09	-	18.09	
101	A.0006056.213.001.001	TX-DIST Fleet New Unit Purchases	Electric General	Meeks	-	-	17,841.62	-	17,841.62	
102	A.0006056.214.001.001	NM-DIST Fleet New Unit Purchase El	Electric General	Meeks	-	-	1,954.13	-	1,954.13	
103	A.0006056.223.001.001	Fleet New Units El Trans NM	Electric General	Cooley	-	-	2,884.64	-	2,884.64	
104	A.0006056.227.001.003	GM50C-Pur Vehicles SPS 2018	Electric General	Lyal	-	-	930.52	-	930.52	
105	A.0010001.004.001.001	TX - UG New Services Blanket	Electric Distribution	Meeks	-	-	36.00	-	36.00	
106	A.0010017.001.001.001	TX - OH Rebuild Tap/Backbone/Sec Bl	Electric Distribution	Meeks	-	-	562.98	-	562.98	
107	A.0010017.005.001.001	TX - OH Street Light Rebuild Blanket	Electric Distribution	Meeks	-	-	138.92	-	138.92	
108	A.0010018.007.001.001	NM - Priority Pole Replacement Blan	Electric Distribution	Meeks	-	-	-	-	-	
109	A.0010138.001.001.002	Purchase Land @ Western St Subs	Electric Distribution	Meeks	-	-	5,659.34	-	5,659.34	
110	D.0001813.061.001.002	New Canyon Service Center	Electric General	Bick	-	-	403.25	-	403.25	
111	D.0001821.290.001.001	2018 Unplanned PC SPS	Electric General	Harkness	-	-	-	(4,459.70)	(4,459.70)	
112	D.0001821.311.001.001	2018 Planned PC SPS	Electric General	Harkness	-	7,010.02	-	249.46	7,259.48	
113	D.0002014.001.001.014	Purch WAN HW Seminole TX	Electric General	Harkness	-	1,926.00	-	19.26	1,945.26	
114	D.0002014.002.001.003	Purch WAN HW Roswell NM	Electric General	Harkness	-	1,665.00	-	9.25	1,674.25	
115	D.0002021.004.001.002	Purch FITI Canyon SC HW SPS	Electric General	Harkness	-	(498.30)	-	-	(498.30)	
116	A.0001577.001.001.002	SPS Wind -Hale County	Electric Production	Lyal	19,864.71	374,878.46	261,520.03	6,067.51	662,330.71	
117	D.0001783.020.001.001	Purch LMR Radio HW China Draw NM	Electric General	Harkness	-	(2,126.82)	19,098.81	-	16,971.99	
118	D.0001783.020.001.002	Purch LMR Radio HW County Line NM	Electric General	Harkness	-	324.80	2,073.17	3.25	2,401.22	
119	D.0002016.004.001.011	Purch MPLS Unpl Pampa TX	Electric General	Harkness	-	-	15,035.32	-	15,035.32	
120	A.0001577.006.001.001	Purch Bus Sys Net Equip Hale Wind S	Electric General	Harkness	227.47	32,310.69	4,796.17	585.87	37,920.20	
121	D.0002014.001.001.020	Purch WAN HW Seagraves TX	Electric General	Harkness	-	925.00	-	9.25	934.25	
122	D.0002014.001.001.021	Purch WAN HW Mustang TX	Electric General	Harkness	-	140.00	-	1.40	141.40	
123	D.0002014.001.001.022	Purch WAN HW Cochran TX	Electric General	Harkness	-	185.00	-	2,577.82	2,762.82	
124	D.0002014.001.001.023	Purch WAN HW Quincy TX	Electric General	Harkness	-	925.00	-	7.40	932.40	
125	D.0002014.002.001.002	Purch WAN HW Eddy NM	Electric General	Harkness	-	555.00	-	1.85	556.85	
126	D.0002014.002.001.004	Purch WAN HW Sierra NM	Electric General	Harkness	-	4,771.34	813.42	47.71	5,632.47	
127	D.0001781.042.001.001	Security Projects - Electric -	Electric General	Brown	-	-	448.52	-	448.52	
128	D.0002014.002.001.005	Purch WAN HW Madrid NM	Electric General	Harkness	-	555.00	-	1.85	556.85	
129	D.0002014.002.001.006	Purch WAN HW Cunningham NM	Electric General	Harkness	-	370.00	-	1.85	371.85	
130	D.0002014.001.001.028	Purch WAN HW Lynn City Tahoka TX	Electric General	Harkness	-	785.00	-	6.00	791.00	
131	D.0002014.001.001.024	Purch WAN HW Dumas TX	Electric General	Harkness	-	370.00	-	3.70	373.70	
132	D.0002014.001.001.025	Purch WAN HW Perryton TX	Electric General	Harkness	-	370.00	-	1.85	371.85	
133	D.0002014.001.001.026	Purch WAN HW Spearman TX	Electric General	Harkness	-	1,295.00	-	11.10	1,306.10	
134	D.0002014.002.001.008	Purch WAN HW Carlsbad NM	Electric General	Harkness	-	1,110.00	-	9.25	1,119.25	
135	D.0002014.002.001.009	Purch WAN HW Tucuman NM	Electric General	Harkness	-	1,665.00	-	12.95	1,677.95	
136	D.0001839.853.001.002	Purch SCGM HW Lubbock TX	Electric General	Harkness	-	1,647.00	783.37	16.48	2,446.85	
137	D.0001839.853.001.003	Purch SCGM HW Tolk TX	Electric General	Harkness	-	1,647.00	733.01	16.48	2,396.49	
138	D.0001804.397.001.007	ITC-Purch Wireless HW Dumas TX	Electric General	Harkness	-	5,998.17	-	68.99	6,067.16	
139	D.0001804.397.001.008	ITC-Purch Wireless HW Amarillo TX	Electric General	Harkness	-	7,492.95	-	75.46	7,568.41	
140	D.0001804.397.001.009	ITC-Purch Wireless HW Pampa TX	Electric General	Harkness	-	11,067.70	-	99.05	11,166.75	
141	D.0002192.004.001.001	ITC-Purch 2019 ITINFS Ref HW SPS	Electric General	Harkness	-	21,705.43	-	175.28	21,880.71	
142	A.0006059.016.001.003	TX N-Distr Substation Tools-Equip	Electric General	Meeks	-	-	2,042.20	-	2,042.20	
143	D.0001781.041.001.002	Security Projects - Electric - T	Electric General	Brown	-	-	1,715.55	-	1,715.55	
144	D.0001804.397.001.010	ITC-Purch Wireless HW Harrington TX	Electric General	Harkness	-	72.26	-	-	72.26	

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Affiliate Charge, April 1, 2019 through June 30, 2019
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Total Affiliate Charges

(A)		(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
Line No.	Work Order Number	Work Order Description	Asset Class	Witness	Materials and Supplies	Contract Work	Labor	Other	Total
145	D.0002193.004.001.002	ITC-Purch 2019 Plan PC HW SPS	Electric General	Harkness	-	(6,342.00)	6,114.72	6,410.32	6,183.04
146	D.0002193.008.001.002	ITC-Purch 2019 Printer SPS	Electric General	Harkness	-	-	972.97	15,862.11	16,835.08
147	A.0000842.005.001.001	HALE CNTY 115KV TRMNL UPGRDE TO PLN	Electric General	Cooley	-	-	337.31	-	337.31
148	A.0000481.003.001.002	Install Ink Basin 230115KV Sub COM	Electric General	Cooley	-	-	311.83	-	311.83
149	A.0000710.007.001.004	Hobbs Gen SECURITY CAMERA UPGRADE C	Electric General	Cooley	-	3,131.53	128.38	31.32	3,291.23
150	A.0000916.009.001.001	Plant X 230kV LRU to Deaf Smith Com	Electric General	Cooley	-	-	(908.82)	-	(908.82)
151	A.0001284.002.001.001	LNGO-Comm	Electric General	Cooley	-	4,816.45	-	56.62	4,873.07
152	A.0000175.002.001.002	Chevron Tap new 3 way switch-COMM	Electric General	Cooley	-	-	710.22	-	710.22
153	A.0005521.085.001.022	McCullough Replace Breakers 7002	Electric Distribution	Meeks	-	-	1,670.27	-	1,670.27
154	A.0001024.003.001.002	HILS-ADD 115-13 2KV TR2 DCP	Electric Distribution	Meeks	-	-	13,404.79	-	13,404.79
155	A.0001534.162.001.002	PLX4C-Rpl XK-04 Oil Ckt Brk-20817	Electric Production	Lyal	-	-	248.90	-	248.90
156	A.0001550.050.001.002	HARIC-HI Rpl Foxboro FBMs	Electric Production	Lyal	-	27,253.73	5,772.90	337.10	33,363.73
157	A.0001550.468.001.002	HARIC-Rpl HV Gen Bushings	Electric Production	Lyal	-	-	8,502.52	-	8,502.52
158	A.0001024.006.001.003	HILS XFMR ADDITION SPARE REPL	Electric Distribution	Meeks	-	-	1,646.07	-	1,646.07
159	A.0000401.053.001.001	Blackhawk 1H70 Relay Upgrade COMM	Electric General	Cooley	-	-	915.83	-	915.83
160	A.0001079.005.001.002	MURP 115KV RLY REPL COMM	Electric General	Cooley	-	-	62.35	-	62.35
161	A.0001550.444.001.002	HARIC- ESP Re-build 10 TR-secs	Electric Production	Lyal	-	-	3,014.75	-	3,014.75
162	A.0001550.376.001.002	HARIC-Rpl DA Heater Vessel	Electric Production	Lyal	-	-	9,726.12	-	9,726.12
163	A.0001534.188.001.002	PLX4C-Rpl Mud Drum Drain Vlvs	Electric Production	Lyal	-	9,385.32	2,658.04	87.55	12,130.91
164	A.0001534.158.001.002	PLX4C-Rpl HE Seamed Piping-20747	Electric Production	Lyal	93.70	62,749.20	42,505.54	490.93	105,839.37
165	A.0005521.004.001.229	SFE-Ozark Mahoning- RPL BKR S920	Electric Distribution	Meeks	-	-	408.48	-	408.48
166	A.0001550.457.001.002	HAR3C-Rpl CT Hot Water Decks	Electric Production	Lyal	-	-	910.20	-	910.20
167	A.0001550.456.001.002	HAR3C-Rpl CT Fan Deck	Electric Production	Lyal	-	-	4,186.76	-	4,186.76
168	A.0001550.285.001.002	HAR3C-Rpl CT Mechanicals P2	Electric Production	Lyal	-	-	75.49	-	75.49
169	A.0001550.307.001.002	HARIC-Upgrade DCS Op Stations	Electric Production	Lyal	-	-	4,021.09	-	4,021.09
170	A.0001550.387.001.002	HARIC-Rpl Gen Hydrogen Purity Monit	Electric Production	Lyal	-	7,489.99	4,014.29	74.90	11,579.18
171	A.0001529.005.001.002	MADIC-Rpl CT Fans & Gearboxes	Electric Production	Lyal	-	10,940.26	7,262.44	904.83	19,107.53
172	A.0001061.003.001.002	XIT 115KV SUBSTATION TERM UPG	Electric General	Cooley	-	-	54.27	-	54.27
173	A.0001545.123.001.002	CHC3C-Rewind Generator	Electric Production	Lyal	-	-	22,739.86	20.60	22,760.46
174	A.0001079.008.001.002	QUINCY SUBSTATION COMMUNICATION	Electric General	Cooley	-	-	124.72	-	124.72
175	A.0001163.004.001.002	NEW HUNSLEY DIST SUB LAND	Electric Distribution	Meeks	-	-	2,318.57	204.40	2,522.97
176	A.0001534.051.001.002	PLX4C-Rpl Economizer Header	Electric Production	Lyal	708.39	23,714.60	18,386.81	209.94	43,019.74
177	A.0001545.124.001.002	CHC3C-Rpl Compressor	Electric Production	Lyal	-	-	48,716.49	-	48,716.49
178	A.0001529.076.001.002	MADIC-Rpl Srv H2O Pmp Assemb	Electric Production	Lyal	-	-	1,015.35	-	1,015.35
179	A.0001015.001.001.002	NEW PRESTON WEST DIST SUB LAND	Electric Distribution	Meeks	-	-	3,623.94	-	3,623.94
180	A.0000153.003.001.001	Y99 DVCY 69KV SWITCH 7853 AND 7857	Electric General	Cooley	-	-	366.40	8.30	374.70
181	A.0005521.004.001.250	SFE - Cable- VCB LV830 RPL MMCO Rel	Electric Distribution	Meeks	-	-	36.18	-	36.18
182	A.0001018.003.001.001	NM - OH Services Renewal Blanket	Electric Distribution	Meeks	-	-	54.53	-	54.53
183	A.0001550.447.001.002	HARIC-Rpl ESP Wires Ph 1 of 2	Electric Production	Lyal	-	-	3,099.59	-	3,099.59
184	A.0001550.379.001.002	HARIC-Rpl FWH7 Separator	Electric Production	Lyal	-	-	2,480.57	-	2,480.57
185	A.0001550.378.001.002	HARIC-Rpl FWH3 Steam Separator	Electric Production	Lyal	-	-	1,240.29	-	1,240.29
186	A.0001024.005.001.002	SFE - Urron RPL 115 13 2kV Transfo	Electric Distribution	Meeks	-	1,764.00	-	17.64	1,781.64
187	A.0001218.007.001.001	AMCO- Com Checkpoint FW TX	Electric General	Cooley	-	-	552.24	-	552.24
188	A.0001218.009.001.002	BRU- Com Checkpoint FW TX	Electric General	Cooley	-	-	50.25	1.50	51.75
189	A.0001550.375.001.002	HARIC-N CT header Expansion Joints	Electric Production	Lyal	-	-	4,530.42	-	4,530.42
190	A.0001550.251.001.002	HARIC-Rpl CT Mechanicals Ph3	Electric Production	Lyal	-	-	3,540.52	-	3,540.52
191	A.0001545.125.001.002	CHC4C-Replace Battery Charger	Electric Production	Lyal	-	-	1,995.78	-	1,995.78
192	A.0001534.192.001.002	PLX0C-Sump piping to pond in tunnel	Electric Production	Lyal	-	-	5,661.03	-	5,661.03

Southwestern Public Service Company

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Line No.	(A) Work Order Number	(B) Work Order Description	(C) Asset Class	(D) Witness	(E) Materials and Supplies	(F) Contract Work	(G) Labor	(H) Other	(I) Total
193	A.0001534.195.001.002	PLX4C-Replace condensate supply pip	Electric Production	Lyal	-	3,145.22	6,046.47	26.65	9,218.34
194	A.0001534.197.001.002	PLX4C-Repl CT north stairway	Electric Production	Lyal	-	-	7,503.36	-	7,503.36
195	A.0001218.006.001.002	ATOKA Checkpoint FW	Electric General	Cooley	-	-	816.91	-	816.91
196	A.0001218.015.001.002	Moore Co Checkpoint FW	Electric General	Cooley	-	-	1,064.09	-	1,064.09
197	A.0001534.164.001.002	PLX4C-Upg DCS Sn & CP 19956	Electric Production	Lyal	-	-	15,318.57	-	15,318.57
198	A.0001550.467.001.002	HARIC-Rpl EHC Pump Sys.	Electric Production	Lyal	-	-	9,825.01	-	9,825.01
199	A.0001550.252.001.002	HARIC-Rpl Drag Chain 2019	Electric Production	Lyal	-	-	9,279.48	-	9,279.48
200	A.0001550.382.001.002	HAR3-H3 Rpl CT Pumphouse Roof	Electric Production	Lyal	-	-	4,731.78	-	4,731.78
201	A.0001529.081.001.002	MADTC-Rpl Ct Fan MCC Breakers	Electric Production	Lyal	-	2,341.30	7,397.98	23.41	9,762.69
202	A.0000979.001.001.001	U-01 MUST-SCO2 115KV NEW LINE	Electric Transmission	Cooley	-	-	-	-	444.81
203	A.0000979.007.001.002	MUSTANG-BAH EXPANSION 115KV	Electric Transmission	Cooley	-	38.67	9,545.70	-	9,584.37
204	A.0000979.010.001.002	SHELL CO2 - 115KV BAH EXPANSION - T	Electric Transmission	Cooley	223.86	-	7,460.72	-	7,684.58
205	A.0000673.033.001.002	HOBBS-NEW 345KV YOAKUM TERMINAL INS	Electric Transmission	Cooley	-	6,971.79	719.39	-	7,690.90
206	A.0000673.023.001.002	J18 YOCOTX STLN 345KV NEW LN CONSTR	Electric Transmission	Cooley	-	931.28	(51,327.88)	48.67	(50,347.93)
207	A.0001326.003.001.001	YOAKUM REPLACEMENT 230115KV CKT 2 XFMR	Electric Transmission	Cooley	-	2,213.24	9,742.05	22.13	11,977.42
208	A.0001316.001.001.002	TUCO S 230115 XFMR UPGRADE	Electric Transmission	Cooley	-	-	7,938.16	-	7,938.16
209	A.0000424.231.001.001	W87 CHDW CHEV TAP 115KV NEW 38MI LI	Electric Transmission	Cooley	-	-	13,377.06	-	13,377.06
210	A.0000494.002.001.002	SEMINOLE INTG REPL WEST 230115KV XF	Electric Transmission	Cooley	-	-	290.53	-	290.53
211	A.0001577.004.001.002	Hale-Xsm Servng Generation	Electric Transmission	Lyal	-	-	3,943.61	-	3,943.61
212	A.0000781.014.001.001	Coulter Relay	Electric Transmission	Cooley	-	-	1,920.01	-	1,920.01
213	A.0000481.002.001.003	INK BASIN 230115KV XFMR	Electric Transmission	Cooley	-	-	12,609.48	-	12,609.48
214	A.0000481.001.001.003	INK Basin 230115KV Substation	Electric Transmission	Cooley	-	-	90,250.45	112.07	90,362.52
215	A.0000481.010.001.002	YOKO - Upgr K93 Terminal Equip	Electric Transmission	Cooley	-	-	581.56	-	581.56
216	A.0000481.009.001.002	HOBBS GEN 230KV K93 TERMINAL UPGRAD	Electric Transmission	Cooley	-	-	1,816.16	-	1,816.16
217	A.0000482.001.001.002	Harrington K32 230KV Terminal Upgra	Electric Transmission	Cooley	-	275.30	16,373.58	3.01	16,651.89
218	A.0000482.002.001.002	Potter Co K32 230KV Terminal Upgrad	Electric Transmission	Cooley	-	-	8,706.20	-	8,706.20
219	A.0000481.004.001.002	U14 DVCY INKB 115KV Reterm at INKB	Electric Transmission	Cooley	-	-	586.61	42.56	629.17
220	A.0000481.006.001.002	R10 INKB HBGN 230KV Reterm at INKB	Electric Transmission	Cooley	-	-	293.33	-	293.33
221	A.0000673.039.001.001	HOBBS INST 345KV YOAKUM LINE REACTO	Electric Transmission	Cooley	-	-	293.33	20.79	314.12
222	A.0000673.025.001.002	TXNM BorderHobbs 345KV Line	Electric Transmission	Cooley	-	(645.66)	14,877.43	-	14,231.77
223	A.0000673.025.001.002	LYNN CTY 11569KV XFMR REPLACEMENT	Electric Transmission	Cooley	-	16,272.03	7,133.43	146.84	23,552.30
224	A.0001284.001.001.002	Yoakum 345KV Sub ReactorHobbs	Electric Transmission	Cooley	-	817.50	523.03	23.21	1,363.74
225	A.0000673.030.001.002	Yoakum Sub Xnfr 345KV/230KVUI	Electric Transmission	Cooley	-	-	12,670.91	-	12,670.91
226	A.0000673.031.001.002	K38 EDCO-CVCO RETERM AT EDDY CO SUB	Electric Transmission	Cooley	-	-	8,165.36	-	8,165.36
227	A.0000290.004.001.002	T75 ARHD-OSSS REBLD 3 0MI LINE	Electric Transmission	Cooley	-	-	528.63	-	528.63
228	A.0001325.006.001.002	Chevron Tap new 3 way switch	Electric Transmission	Cooley	-	4,757.70	11,222.80	52.44	16,032.94
229	A.0000424.033.001.002	China Draw Yeso Hills terminal	Electric Transmission	Cooley	-	-	1,199.30	-	1,199.30
230	A.0001024.001.001.002	HILS-ADD 115-13 2KV TR2 TAM	Electric Transmission	Cooley	-	-	3,746.68	16.57	3,763.25
231	A.0001024.001.001.002	DVCY - Terminal Upgrade Ckt V80	Electric Transmission	Cooley	-	-	12,036.54	-	12,036.54
232	A.0000481.008.001.002	JON2C-Upg Foxboro FBMs	Electric Production	Lyal	-	-	3,521.46	-	3,521.46
233	A.0001586.067.001.002	INST 115KV Quincy SW SUB XCEL	Electric Transmission	Cooley	-	29.59	26,606.34	-	26,756.98
234	A.0001586.125.001.002	JON2C-Rewind Exciter Rotor	Electric Production	Lyal	-	-	24,413.71	121.05	24,534.76
235	A.0001586.074.001.002	JON2C-Rpl Oil Circ Break JK45	Electric Production	Lyal	-	-	10,728.20	40.52	10,768.72
236	A.0001586.074.001.002	JON2C-Rpl Seamed HRH Piping	Electric Production	Lyal	-	753.80	8.70	-	762.50
237	A.0000401.032.001.002	Hutchinson 1936 T48 re-ly upgrade	Electric Transmission	Cooley	-	-	187.09	225.58	412.67
238	A.0001284.001.001.004	LNCO Spare 84 MVA XFMR	Electric Transmission	Cooley	-	-	1,339.02	-	1,339.02
239	A.0000401.022.001.002	Blackhawk 1H70 relay replacement	Electric Transmission	Cooley	-	-	1,538.47	51.35	1,589.82

Southwestern Public Service Company

Affiliate Charge, April 1, 2019 through June 30, 2019

Separated by Cost Component

Total Affiliate Charges

Line No.	(A) Work Order Number	(B) Work Order Description	(C) Asset Class	(D) Witness	(E) Materials and Supplies	(F) Contract Work	(G) Labor	(H) Other	(I) Total
241	A.0001059.005.001.001	Roswell 4910 Relay Upgrade	Electric Transmission	Cooley	-	-	7,266.21	-	7,266.21
242	A.0000401.047.001.003	Hale Co 3911 Relay Replacement	Electric Transmission	Cooley	-	-	3,312.21	-	3,312.21
243	A.0000401.048.001.002	TUCO N912 Relay Replacement	Electric Transmission	Cooley	-	(327.50)	5,593.52	9.04	5,275.06
244	A.0001079.006.001.002	MURP 115KV RLY REPL	Electric Transmission	Cooley	-	-	238.30	-	238.30
245	A.0001586.268.001.002	JON2C-3051 Transm Rpl Ph2	Electric Production	Lyal	-	-	7,933.78	-	7,933.78
246	A.0000484.001.001.002	LBSO V45 Terminal	Electric Transmission	Cooley	-	-	113.95	-	113.95
247	A.0000484.002.001.002	ALLN V45 Terminal	Electric Transmission	Cooley	-	-	113.95	-	113.95
248	A.0000589.011.001.003	Roswell Int 115KV Buss Diff	Electric Transmission	Cooley	-	-	12,638.17	-	12,638.17
249	A.0001041.006.001.001	SFE-Carlisle-RPL 115 BKR-Term Upgd	Electric Transmission	Cooley	-	-	1,561.21	-	1,561.21
250	A.0001183.002.001.002	115KV LESS TERM UPG RATINGS	Electric Transmission	Cooley	-	-	53.26	-	53.26
251	A.0001555.071.001.002	TOL0C-W SBAC Overhaul 2018	Electric Production	Lyal	-	-	10,816.10	-	10,816.10
252	A.0001325.007.001.002	W77 RNCO - OSSS Rebuild 4 Mi Line	Electric Transmission	Cooley	-	-	192.34	-	192.34
253	A.0001325.011.001.002	K62 NICS-AMSO RAISE STR 28-31	Electric Transmission	Cooley	131.44	-	522.31	-	653.75
254	A.0001079.009.001.001	U21 MURP QUIN 115KV Line	Electric Transmission	Cooley	-	-	107.96	-	107.96
255	A.0001325.010.001.002	K87 RNCO-AMSO Add Insul Arms Str 26	Electric Transmission	Cooley	-	-	192.32	-	192.32
256	A.0000640.035.001.002	SFE-Spearman INTG RPL OCB IH08	Electric Transmission	Cooley	-	1,152.00	-	11.52	1,163.52
257	A.0000424.234.001.002	Livingston Ridge U-08 OPGW Upgrade	Electric Transmission	Cooley	-	-	2,315.13	-	2,315.13
258	A.0000710.003.001.007	HTLD EEE Panels	Electric Transmission	Cooley	-	4,057.61	-	46.67	4,104.28
259	A.0001325.008.001.002	V04 MANH-RNCO REBUILD DC STR I5-18	Electric Transmission	Cooley	-	-	559.00	-	559.00
260	A.0000646.002.001.002	PRYN - REMOVE Z66 TERMINAL	Electric Transmission	Cooley	-	-	1,966.83	-	1,966.83
261	A.0001586.289.001.002	JON2C-Rpl L1 Gen End Turb Blds	Electric Production	Lyal	-	760.00	5,060.24	10.45	5,830.69
262	A.0001586.271.001.002	JON2C-Rpl CP's	Electric Production	Lyal	-	-	1,576.95	-	1,576.95
263	A.0000781.018.001.001	U24 Rel Str	Electric Transmission	Cooley	-	-	2,152.40	-	2,152.40
264	A.0001061.009.001.001	XIT 115KV SUBSTATION TOIF	Electric Transmission	Cooley	-	-	7,060.21	-	7,060.21
265	A.0000350.008.001.002	LEA COUNTY PLAINS 115KV SUB-LOST DR	Electric Transmission	Cooley	-	-	6,269.83	-	6,269.83
266	A.0000640.036.001.001	Tuco- RPL BKR's N030 N040	Electric Transmission	Cooley	-	-	132.96	-	132.96
267	A.0001555.213.001.002	TOL1C-Rpl Baghouse Bags 2019	Electric Production	Lyal	-	-	7,820.73	-	7,820.73
268	A.0001079.004.001.002	FRANKFORD SUB REL REP	Electric Transmission	Cooley	-	-	235.46	-	235.46
269	A.0001586.269.001.002	JON2C-SH Header Sealbox Rpl	Electric Production	Lyal	-	6,533.10	8,144.89	112.04	14,790.03
270	A.0001550.500.001.037	HARIC-Rpl Generator Breaker FK10	Electric Production	Lyal	-	-	8,361.16	-	8,361.16
271	A.0001560.500.001.025	NIC1C-Rpl Station Battery N1&N2	Electric Production	Lyal	-	-	3,518.08	-	3,518.08
272	A.0001586.500.001.018	JON2C-Rwd Normal Src Xlmmr	Electric Production	Lyal	-	-	14,117.80	-	14,117.80
273	A.0001555.031.001.002	TOL0C-TolkX Waier Well Ph 8	Electric Production	Lyal	2,591.42	16,195.40	45,036.99	158.53	63,982.34
274	A.0001560.121.001.002	NIC2C-Rpl Blowdown Piping	Electric Production	Lyal	-	17,241.00	16,308.16	175.82	33,724.98
275	A.0001586.284.001.002	JON1C-Rpl CT Makeup Piping	Electric Production	Lyal	-	-	720.96	-	720.96
276	A.0001215.001.001.001	Inst W39 Switch Poker Cowboy Temp R	Electric Transmission	Cooley	-	-	5,870.80	-	5,870.80
277	A.0000424.110.001.002	Eddy Co Sub Land	Electric Transmission	Cooley	-	-	2,057.63	-	2,057.63
278	A.0001221.001.001.001	INST 3 L WY SW KEMP REIM	Electric Transmission	Cooley	-	482.44	1,447.09	45.10	1,974.63
279	A.0001586.288.001.002	JON2C-Rpl Htr Drains Pmp	Electric Production	Lyal	1,208.19	-	830.46	-	2,038.65
280	A.0001024.008.001.001	U-24 Outpost Reemr at Hillside sub	Electric Transmission	Cooley	197.16	-	29,023.12	-	29,220.28
281	A.0000673.022.001.003	TUCO-YOAKUM 345KV ROW UID 50447	Electric Transmission	Cooley	-	53,724.86	9,445.94	679.19	63,849.99
282	A.0001022.002.001.003	V29 Tap ROW	Electric Transmission	Cooley	-	-	2,025.18	-	2,025.18
283	A.0001560.500.001.028	NIC2C-Rpl CT Cell 75 Fan Mech	Electric Production	Lyal	-	-	2,301.54	-	2,301.54
284	A.0001024.008.001.001	JON0C-Rpl Potable Wtr Line	Electric Production	Lyal	-	-	4,071.24	-	4,071.24
285	A.0001555.009.001.002	TOL1C-Inst Main Pwr Xlmmr DGA	Electric Production	Lyal	-	-	3,345.74	-	3,345.74
286	A.0000424.235.001.001	Kiowa 345KV Sub Land	Electric Transmission	Cooley	-	-	1,160.78	-	1,160.78
287	A.0001586.500.001.025	JON2C-Rpl Circ Dischrg Vvls	Electric Production	Lyal	-	1,172.40	5,391.00	1,466.38	8,029.78
288	A.0001560.500.001.034	NIC2C-Rpl CT Cell 11S Fan Mech	Electric Production	Lyal	-	-	6,188.40	-	6,188.40

Southwestern Public Service Company

Affiliate Charge, April 1, 2019 through June 30, 2019

Separated by Cost Component

Total Affiliate Charges

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
Line No.	Work Order Number	Work Order Description	Asset Class	Witness	Materials and Supplies	Contract Work	Labor	Total
289	A.0001555.124.001.002	TOLIC-RPL Baghouse Roof	Electric Production	Lyal	-	-	5,498.30	5,498.30
290	A.0001550.500.001.048	HARIC-Rpl MC3 Analyzer Board	Electric Production	Lyal	-	-	4,737.04	4,737.04
291	A.0001550.500.001.049	HARIC-Rpl Hg Probe & Elec Pnl	Electric Production	Lyal	-	-	11,190.88	11,190.88
292	A.0000303.045.001.085	T89 SE UNSCHLD REPL STRS 270 AND 27	Electric Transmission	Cooley	-	-	2,039.98	2,039.98
293	A.0000303.044.001.096	Y89 1 SE UNSCHLD REPL STRS 118 AND	Electric Transmission	Cooley	-	-	207.60	207.60
294	A.0000499.011.001.010	T13 ELR REHAB SCHLD REPL ARMS POLES	Electric Transmission	Cooley	-	-	49.19	49.19
295	A.0000303.044.001.097	Z60 SE UNSCHLD REPL STR 30	Electric Transmission	Cooley	-	-	250.59	250.59
296	A.0001560.138.001.002	NC3G-Install FD Fan VFD AC	Electric Production	Lyal	-	-	3,432.21	3,432.21
297	A.0000303.045.001.093	V33 SE UNSCHLD REPL STRS 197 AND 19	Electric Transmission	Cooley	-	-	224.75	224.75
298	A.0000303.007.001.062	K94 SE UNSCHLD REPL STRS 27-34	Electric Transmission	Cooley	-	-	1,920.69	1,920.69
299	A.0000303.044.001.099	Z53 SE UNSCHLD REPL STRS 326 TO 342	Electric Transmission	Cooley	-	-	312.13	312.13
300	A.0000303.043.001.001	J15 SE UNSCHLD REPL STRM DAM STRS	Electric Transmission	Cooley	-	-	3,486.93	3,486.93
301	Grand Total				\$ 26,600.11	\$ 835,203.98	\$ 1,315,103.53	\$ 2,209,347.10

Southwestern Public Service Company

Affiliate Charge, April 1, 2019 through June 30, 2019

Separated by Cost Component

Total Affiliate Charges

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
Line No.	Work Order Number	Work Order Description	Asset Class	Witness	Materials and Supplies	Contract Work	Labor	Other	Total
1	D.0001726.058.001.001	Work and Asset Ph 1 SW SPS	Electric General - Software	Harkness	\$ 50.92	\$ -	\$ 276.37	\$ -	\$ 327.29
2	D.0001771.007.001.001	Certificate Key Mgmt SW SPS	Electric General - Software	Harkness	-	(2,584.31)	628.33	3.74	(1,952.24)
3	D.0001783.017.001.002	WebSense SW SPS-10670	Electric General - Software	Harkness	-	2,404.43	-	17.19	2,421.62
4	D.0001787.004.001.001	SAP Financial Mgmt SPS	Electric General - Software	Harkness	-	1,406.70	3.10	17.00	1,426.80
5	D.0001787.009.001.001	Customer Mgmt SPS	Electric General - Software	Harkness	-	197,566.95	5,960.28	2,786.46	206,313.69
6	D.0001792.176.001.001	Rational SW SPS-10715	Electric General - Software	Harkness	-	8,965.89	16.11	92.22	9,074.22
7	D.0001796.018.001.002	Network Tools Telecom Exp SW TX -106	Electric General - Software	Harkness	-	206.78	-	11,059.83	11,266.61
8	D.0001796.025.001.001	Network Tools Mgmt SW SPS-10700	Electric General - Software	Harkness	-	4,581.12	4,603.77	44.03	9,228.92
9	D.0001805.004.001.001	Next Gen MSFT LIC SW SPS-10692	Electric General - Software	Harkness	-	-	37.25	-	37.25
10	D.0001826.161.001.001	Verint Suite SW SPS	Electric General - Software	Harkness	-	84.28	(13.23)	-	71.05
11	D.0001826.191.001.001	Demand Response Mgmt SW SPS	Electric General - Software	Harkness	-	-	14.54	-	14.54
12	D.0001826.247.001.001	2015 RPAM Phase 3 Amort SW SPS	Electric General - Software	Harkness	-	(187,359.51)	-	(23.46)	(187,382.97)
13	D.0002001.014.001.001	Sailpoint Ph3 SW SPS-10717	Electric General - Software	Harkness	-	221.88	-	107.11	328.99
14	D.0002002.007.001.001	NMS 1.12 Upgrade SW SPS-10669	Electric General - Software	Harkness	-	2,191.38	-	21.92	2,213.30
15	D.0002003.014.001.001	2019 Oracle SW SPS-10748	Electric General - Software	Harkness	-	-	-	3,200.01	3,200.01
16	D.0002004.014.001.001	SAP Data Mart Ph2 SW SPS-10690	Electric General - Software	Harkness	-	(817.82)	102.23	1.13	(714.46)
17	D.0002008.004.001.001	Ent DataBase Security Ph2 SW SPS-10	Electric General - Software	Harkness	-	(14,415.28)	(979.50)	(0.84)	(15,395.62)
18	D.0002020.014.001.001	SAP Cont Improve R18 SW SPS-10706	Electric General - Software	Harkness	-	276.46	-	-	276.46
19	D.0002034.004.001.001	CEC-TCPA Do Not Call SW SPS-10703	Electric General - Software	Harkness	-	(15.44)	18.29	-	2.85
20	D.0002066.004.001.001	Bus Obj Ref SW SPS-10698	Electric General - Software	Harkness	-	(205.50)	-	-	(205.50)
21	D.0002090.004.001.001	IT Service Request SW SPS-10699	Electric General - Software	Harkness	-	1,375.38	101.93	22.13	1,499.44
22	D.0002097.007.001.001	UAST Ph1 SW SPS-10689	Electric General - Software	Harkness	-	(4,349.20)	538.46	2.98	(3,807.76)
23	D.0002098.004.001.001	CyberArk PAM SW SPS-10694	Electric General - Software	Harkness	-	(1,335.96)	783.45	1,013.06	460.55
24	D.0002099.007.001.001	Firewall Rule Mgmt SW SPS-10707	Electric General - Software	Harkness	-	5.33	2,136.56	7.30	2,149.19
25	D.0002101.006.001.001	ecGRC Ph3 SW SPS-10719	Electric General - Software	Harkness	-	-	5.50	10.21	15.71
26	D.0002182.004.001.001	Sharepoint RFP SW SPS-10739	Electric General - Software	Harkness	-	(209.31)	(7.27)	-	(216.58)
27	D.0002033.011.001.002	CommodityXL SW SPS-10681	Electric General - Software	Harkness	-	82,452.31	54,590.12	1,515.04	138,557.47
28	D.0001796.014.001.002	Network Tools LNI Smallworld SW TX -	Electric General - Software	Harkness	-	80,937.18	5,078.39	861.11	86,876.68
29	D.0002100.007.001.001	Private Cloud Infra SW SPS-10710	Electric General - Software	Harkness	-	3,731.35	535.23	48.40	4,314.98
30	D.0002100.014.001.001	Private Cloud Service SW SPS-10711	Electric General - Software	Harkness	-	3,532.39	39.74	39.48	3,611.61
31	D.0002084.027.001.001	Blue Prism SW SPS-10731	Electric General - Software	Harkness	-	9,907.10	2,520.71	254.68	12,682.49
32	D.0002183.004.001.001	Sharepoint Fin Gov SW SPS-10740	Electric General - Software	Harkness	-	(957.25)	-	-	(957.25)
33	Grand Total				\$ 50.92	\$ 187,597.33	\$ 76,990.36	\$ 21,100.73	\$ 285,739.34

Southwestern Public Service Company

Allocating Software Work Orders

Line No.	Allocating Work Order Number	SPS Associated Subledger	SPS Allocation Percentage	NSPM Allocation Percentage	NSPW Allocation Percentage	PSCO Allocation Percentage	Work Order Description	Allocation Method	SPS In-serviced Amount from April 1, 2019 to June 30, 2019
1	10681	D.0002033.011.001.002	25.80%	37.24%	6.13%	30.83%	Commodity XL SW SPS-10681	MWH Sold	\$ 767,132.20
2	10682	D.0001796.014.001.002	12.39%	47.41%	8.09%	32.11%	Network Tools LNI Smallworld SW TX -	# of phones, radios, computers	\$ 752,140.94
3	10731	D.0002084.027.001.001	14.44%	45.24%	6.95%	33.37%	Blue Prism SW SPS-10731	Assets/Revenue/Employees w/o Xcel Energy, Inc	\$ 233,453.57
4	N/A	D.0001787.009.001.001	15.63%	41.54%	8.08%	34.75%	Customer Mgmt SPS	Revenues	\$ 206,313.69
5	10710	D.0002100.007.001.001	11.17%	38.76%	6.42%	43.65%	Private Cloud Infra SW SPS-10710	Average of a select set of software applications	\$ 123,938.95
6	10711	D.0002100.014.001.001	11.17%	38.76%	6.42%	43.65%	Private Cloud Service SW SPS-10711	Average of a select set of software applications	\$ 47,183.05
7	10740	D.0002183.004.001.001	14.44%	45.24%	6.95%	33.37%	Sharepoint Fin Gov SW SPS-10740	Assets/Revenue/Employees w/o Xcel Energy, Inc	\$ 15,844.84
8	10683	D.0001796.018.001.002	12.39%	47.41%	8.09%	32.11%	Network Tools Telecom Exp SW TX -106	# of phones, radios, computers	\$ 11,266.61
9	10700	D.0001796.025.001.001	12.39%	47.41%	8.09%	32.11%	Network Tools Mgmt SW SPS-10700	# of phones, radios, computers	\$ 9,228.92
10	10715	D.0001792.176.001.001	11.90%	54.33%	6.15%	27.62%	Rational SW SPS-10715	# of computers	\$ 9,065.28
11	10748	D.0002033.014.001.001	11.02%	39.02%	6.25%	43.71%	2019 Oracle SW SPS-10748	Average of a select set of software applications	\$ 3,169.17
12	10670	D.0001783.017.001.002	14.36%	49.05%	6.63%	29.96%	WebSense SW SPS-10670	# of security employees	\$ 2,421.62
13	10669	D.0002002.007.001.001	11.36%	36.57%	8.19%	43.88%	NMS 1.12 Upgrade SW SPS-10669	Electric Distribution Plant	\$ 2,213.30
14	10707	D.0002099.007.001.001	14.56%	48.17%	6.78%	30.49%	Firewall Rule Mgmt SW SPS-10707	# of security employees	\$ 2,149.19
15	10699	D.0002090.004.001.001	14.41%	45.33%	6.95%	33.31%	IT Service Request SW SPS-10699	Assets/Revenue/Employees w Xcel Energy, Inc	\$ 1,499.44
16	N/A	D.0001787.004.001.001	15.63%	41.54%	8.08%	34.75%	SAP Financial Mgmt SPS	Revenues	\$ 1,427.38
17	10694	D.0002098.004.001.001	14.56%	48.17%	6.78%	30.49%	CyberArk PAM SW SPS-10694	# of security employees	\$ 460.55
18	10717	D.0002001.014.001.001	14.56%	48.17%	6.78%	30.49%	Sailpoint Ph3 SW SPS-10717	# of security employees	\$ 328.99
19	10493	D.0001726.058.001.001	14.54%	39.24%	9.59%	36.63%	Work and Asset Ph 1 SW SPS	Number of Passport work management, inventory, purchasing transactions and	\$ 327.29
20	10706	D.0002020.014.001.001	14.30%	45.32%	6.87%	33.51%	SAP Cont Improve R18 SW SPS-10706	Assets/Revenue/Employees w/o Xcel Energy, Inc	\$ 276.46
21	10595	D.0001826.161.001.001	10.22%	34.98%	6.84%	47.96%	Verint Suite SW SPS	CRS 503	\$ 71.05
22	10692	D.0001805.004.001.001	11.89%	54.33%	6.15%	27.63%	Next Gen MSFT LLC SW SPS-10692	# of computers	\$ 37.25
23	10719	D.0002101.006.001.001	14.40%	49.17%	6.78%	29.65%	eGRC Ph3 SW SPS-10719	# of security employees	\$ 15.71
24	10596	D.0001826.191.001.001	10.22%	34.98%	6.84%	47.96%	Demand Response Mgmt SW SPS	CRS 503	\$ 14.54
25	10703	D.0002034.004.001.001	7.05%	35.49%	6.68%	50.78%	CEC-TCPA Do Not Call SW SPS-10703	Number of customers excluding wholesale	\$ 2.85
26	10720	D.0001839.210.001.001	13.90%	50.30%	6.42%	29.38%	SCCM Upgrade SW SPS-10720	# of computers	\$ (0.01)
27	10698	D.0002066.004.001.001	13.95%	41.22%	8.57%	36.26%	Bus Obj Ref SW SPS-10698	# of business objects users	\$ (205.50)
28	10739	D.0002182.004.001.001	14.44%	45.24%	6.95%	33.37%	Sharepoint RFP SW SPS-10739	Assets/Revenue/Employees w/o Xcel Energy, Inc	\$ (217.83)
29	10690	D.0002004.014.001.001	13.95%	41.22%	8.57%	36.26%	SAP Data Mart Ph2 SW SPS-10690	# of business objects users	\$ (729.10)
30	10577	D.0001771.007.001.001	12.21%	44.99%	6.20%	36.60%	Certificate Key Mgmt SW SPS	552 - Security Systems	\$ (1,952.24)
31	10689	D.0002097.007.001.001	28.37%	37.54%	11.45%	22.64%	UAST Ph1 SW SPS-10689	Electric Transmission Plant	\$ (3,833.76)
32	10686	D.0002008.004.001.001	14.41%	45.33%	6.95%	33.31%	Ent DataBase Security Ph2 SW SPS-10	Assets/Revenue/Employees w Xcel Energy, Inc	\$ (15,395.62)
33	10619	D.0001826.247.001.001	16.00%	38.00%	9.00%	37.00%	2015 RPAM Phase 3 Amort SW SPS	Assets/Revenue/Employees w/o Xcel Energy, Inc	\$ (187,382.97)
							Grand Total - Software Additions		\$ 1,980,265.81

Notes: Allocating work orders shown include only those with in service activity from 4/1/2019 through 6/30/2019 where the construction was included in rate base.

All subledger project numbers listed represent Southwestern Public Service Co. Projects.

Projects allocated 100% to Southwestern Public Service Co. do not have allocating work order numbers and allocation methods.