

DOCKET NO. _____

APPLICATION OF SOUTHWESTERN § PUBLIC UTILITY COMMISSION
PUBLIC SERVICE COMPANY FOR §
AUTHORITY TO CHANGE RATES § OF TEXAS

DIRECT TESTIMONY

of

MARK LYTAL

on behalf of

SOUTHWESTERN PUBLIC SERVICE COMPANY

(Filename: LytalRRDirect.doc)

Table of Contents

GLOSSARY OF ACRONYMS AND DEFINED TERMS.....	2
LIST OF ATTACHMENTS	4
I. WITNESS IDENTIFICATION AND QUALIFICATIONS	6
II. ASSIGNMENT AND SUMMARY OF TESTIMONY AND RECOMMENDATIONS	9
III. SELECTION AND MANAGEMENT OF ENERGY SUPPLY CAPITAL PROJECTS	13
IV. ENERGY SUPPLY CAPITAL ADDITIONS.....	20
A. ENERGY SUPPLY CAPITAL ADDITIONS FOR THE PERIOD FROM JULY 1, 2019 THROUGH SEPTEMBER 30, 2020	20
B. ENERGY SUPPLY CAPITAL PROJECTS PLACED IN SERVICE BETWEEN OCTOBER 1, 2020 AND DECEMBER 31, 2020.....	30
V. SAGAMORE CAPITAL COSTS.....	34
VI. CHANGES IN USEFUL LIVES OF GENERATING ASSETS.....	43
A. TOLK GENERATING STATION	43
B. HARRINGTON GENERATING STATION	44
C. PLANT X UNIT 3	45
AFFIDAVIT	47

GLOSSARY OF ACRONYMS AND DEFINED TERMS

<u>Acronym/Defined Term</u>	<u>Meaning</u>
AFUDC	Allowance for Funds Used During Construction
BOP	Balance of Plant
Capital Services	Capital Services, LLC, an affiliate of Xcel Energy
CEMS	Continuous Emission Monitoring System
Commission	Public Utility Commission of Texas
FBM	Field Bus Modules
FERC	Federal Energy Regulatory Commission
Hale	Hale Wind Project
Harrington	Harrington Generating Station
IFC	Issue for Construction
kV	Kilovolt
kW	Kilowatt
MSA	Master Supply Agreement
MW	Megawatt
NERC	North American Electric Reliability Corporation
NSP-M	Northern States Power Company, a Minnesota corporation
O&M	operation and maintenance
OAA	Omnibus Appropriations Act
Operating Companies	Northern States Power Company, a Minnesota corporation; Northern States Power Company, a Wisconsin corporation; Public Service Company of Colorado, a Colorado corporation; and SPS

<u>Acronym/Defined Term</u>	<u>Meaning</u>
Plant X Unit 3	One of four generating units at Plant X
PTC	Production Tax Credit
PSA	Purchase and Sale Agreement
RFP	Rate Filing Package
RPC	Regional Planning Committee
Sagamore	Sagamore Wind Project
SPP	Southwest Power Pool
SPS	Southwestern Public Service Company, a New Mexico corporation
TCEQ	Texas Commission on Environmental Quality
Test Year	October 1, 2019 through September 30, 2020
Tolk	Tolk Generating Station
Total Company or total company	Total SPS (before jurisdictional allocation)
TSA	Turbine Supply Agreement
Update Period	October 1, 2020 through December 31, 2020
Updated Test Year	January 1, 2020 through December 31, 2020
Vestas	Vestas-American Wind Technology, Inc.
WBS	Work Breakdown Structure
Xcel Energy	Xcel Energy Inc.
XES	Xcel Energy Services Inc.

LIST OF ATTACHMENTS

<u>Attachment</u>	<u>Description</u>
ML-RR-1	Energy Supply Capital Additions from July 1, 2019 through September 30, 2020 (Filename: ML-RR-1.xlsx)
ML-RR-2	Energy Supply Capital Additions from October 1, 2020 through December 31, 2020 (Filename: ML-RR-2.xlsx)
ML-RR-3	Sagamore Wind Project Commercial Operation Notice Letter (Non-native format)
ML-RR-4(V)(HS)	Master Supply Agreement between Capital Services, LLC and Vestas-American Wind Technology, Inc., dated September 15, 2016 (Non-native format)
ML-RR-5(V)(HS)	Turbine Supply Agreement between Southwestern Public Service Company and Vestas-American Wind Technology, Inc., dated June 15, 2018 (Non-native format)
ML-RR-6	Sale of Components Agreement by and between Capital Services, LLC and Southwestern Public Service Company, dated March 17, 2017 (Non-native format)
ML-RR-7(V)	Purchase and Sale Agreement between Invenergy and Southwestern Public Service Company, dated March 9, 2017 (Non-native format)
ML-RR-8(V)(HS)	Engineering, Procurement, and Construction Agreement by and between Southwestern Public Service Company, and Wanzek Construction, Inc., dated October 13, 2017 (Non-native format)
ML-RR-9	January 2020 Plant X Unit 3 Economic Analysis (Non-native format)

<u>Attachment</u>	<u>Description</u>
ML-RR-10	December 2020 Plant X Unit 3 Economic Analysis (<i>Filename:</i> ML-RR-10.xlsx)

**DIRECT TESTIMONY
OF
MARK LYTAL**

1 **I. WITNESS IDENTIFICATION AND QUALIFICATIONS**

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

3 A. My name is Mark Lytal. My business address is 790 South Buchanan Street,
4 Amarillo, Texas 79101.

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

6 A. I am filing testimony on behalf of Southwestern Public Service Company, a New
7 Mexico corporation (“SPS”). SPS is a wholly-owned electric utility subsidiary of
8 Xcel Energy Inc. (“Xcel Energy”).

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

10 A. I am employed by Xcel Energy Services Inc. (“XES”), the service company
11 subsidiary of Xcel Energy, as Director, Regional Capital Projects in the Projects
12 Department of Energy Supply, which is the generation operation and maintenance
13 (“O&M”) business unit of Xcel Energy.

14 **Q. Please briefly outline your responsibilities as Director, Regional Capital Projects**
15 **in the Engineering and Construction Department of Energy Supply.**

16 A. I am responsible for managing the capital budget process and projects for the SPS
17 region within the Energy Supply business unit. Thus, I am responsible for the
18 regional capital budget, schedules, development, and construction for all of SPS’s
19 electric generating projects. I directly manage the major projects for SPS and
20 supervise other managers handling smaller projects. My management duties include
21 safety, technical design selection, engineering and contractor oversight, management
22 of the bidding process, and negotiation of major equipment supply agreements. I

1 work with the Environmental, Regulatory, Engineering and Technical Resources, and
2 Resource Planning departments to assist with scoping and planning of new
3 generation and major generation retrofit projects.

4 **Q. Please describe your educational background.**

5 A. I have a Bachelor of Science in Mechanical Engineering from Texas Tech University
6 and a Masters of Engineering in Engineering Management from the University of
7 Colorado.

8 **Q. Please describe your professional experience.**

9 A. I have 30 years of experience in the utility industry in the design, construction, and
10 O&M of power generation plants including coal, combustion turbine/combined cycle
11 facilities, and wind generation. I have worked with Xcel Energy and SPS in
12 engineering management and production, supervisory, project, and plant engineering
13 positions. I have served as Director, Technical Resources and Compliance. In that
14 position, I had oversight of a multi-state, multi-jurisdiction technical team of over
15 fifty engineers, technical specialists, and compliance specialists. In that role, I
16 developed, monitored, and adjusted the policies, procedures, and standards needed to
17 apply comprehensive, effective, and efficient technical knowledge and support of
18 power plant engineering, operations, and maintenance. I have also provided strategic
19 direction and leadership of Energy Supply's internal reliability standard compliance
20 program and its implementation.

21 **Q. Have you attended or taken any special courses or seminars relating to public**
22 **utilities?**

23 A. Yes. Over my career, I have taken numerous courses and seminars related
24 specifically to the construction and operation of power plants. I have given technical

1 presentations on high energy piping, general project management, power plant
2 operations, and maintenance. I have also completed the New Mexico State
3 University Center for Public Utilities training on rate cases.

4 **Q. Do you hold a professional license?**

5 A. Yes. I am a registered professional engineer in the state of Texas.

6 **Q. Are you a member of any professional organizations?**

7 A. Yes. I am a member of the American Society of Mechanical Engineers.

8 **Q. Have you testified before any regulatory authorities?**

9 A. Yes. I filed testimony on SPS's behalf in its last base rate case before the Public
10 Utility Commission of Texas ("Commission"), which was Docket No. 49831.¹ I
11 have also submitted prefiled direct testimony on SPS's behalf in its two most recent
12 base rates cases before the New Mexico Public Regulation Commission, and I
13 submitted prefiled testimony to the Federal Energy Regulatory Commission
14 ("FERC") in Docket No. ER20-277. Finally, I have served as an expert witness
15 during North American Electric Reliability Corporation ("NERC") Standards audit
16 engagements in both engineering and leadership capacities.

¹ *Application of Southwestern Public Service Company for Authority to Change Rates*, Docket No. 49831, Direct Testimony of Mark Lytal (Aug. 8, 2019).

1 **II. ASSIGNMENT AND SUMMARY OF TESTIMONY AND**
2 **RECOMMENDATIONS**

3 **Q. What is your assignment in this proceeding?**

4 A. I have several assignments in this proceeding. First, I describe the processes that the
5 Energy Supply business area uses to select its capital projects and to manage its
6 capital expenditures.

7 Second, I present the Energy Supply capital additions that SPS placed in
8 service during the period from July 1, 2019, which is the first day after the end of the
9 period for which capital additions were approved in Docket No. 49831, through
10 December 31, 2020, which is the end of the Updated Test Year (January 1, 2020
11 through December 31, 2020)² in this case. I will provide the actual dollar amount of
12 the capital additions for this 18-month period in two steps:

- 13 1. As part of my direct testimony, I present the actual dollar amount of Energy
14 Supply capital additions that closed to plant-in-service during the period from
15 July 1, 2019 through September 30, 2020, the end of the Test Year in this
16 case. In my direct testimony, I also present the estimated dollar amounts of
17 Energy Supply capital additions that SPS closed or expected to close to plant-
18 in-service during the Update Period, which is the three-month period from
19 October 1, 2020 through December 31, 2020.
- 20 2. As part of SPS's 45-day case update filing, I will provide the actual dollar
21 amount of Energy Supply-related capital additions that closed to plant-in-
22 service during the Update Period.

23 Together, these two pieces of testimony will provide the actual dollar amount of
24 Energy Supply capital additions closed to plant-in-service during the 18-month
25 period from July 1, 2019 through December 31, 2020.

² As explained by SPS witness William A. Grant, SPS is using a historical test year of October 1, 2019 through September 30, 2020 ("Test Year"), updated to include information for the period from October 1, 2020 through December 31, 2020 ("Update Period"). This effectively creates an Updated Test Year consisting of the twelve-month period from January 1, 2020 through December 31, 2020.

1 Third, I discuss SPS's construction of the Sagamore Wind Project
2 ("Sagamore"), and I explain that the costs SPS incurred to construct Sagamore were
3 reasonable and necessary. I also demonstrate that the total company costs incurred
4 by SPS to construct both Sagamore and the Hale Wind Project ("Hale") are below
5 the per kilowatt ("kW") cost cap established by the Commission in Docket No.
6 46936.³

7 Fourth, I describe SPS's proposed changes in the service lives of assets at
8 three of SPS's generating facilities: Tolk Generating Station ("Tolk"), Harrington
9 Generating Station ("Harrington"), and Plant X Unit 3. With respect to those
10 facilities, I explain that:

- 11 • SPS seeks to set depreciation rates for the Tolk generating assets based on a
12 service life ending in 2032 because of groundwater shortages in the area.⁴
- 13 • Pursuant to an agreement with the Texas Commission on Environmental
14 Quality ("TCEQ"), SPS has agreed to cease the use of coal at Harrington by
15 2025, and SPS seeks Commission approval to end the service lives of the
16 Harrington coal-specific assets at year-end 2024 because they will no longer
17 be needed after that time.
- 18 • SPS seeks Commission approval to set depreciation rates for Plant X Unit 3
19 based on a service life ending at year-end 2022.

20 The depreciation rates that SPS has proposed in this case are based on those service
21 lives.

22 In addition, I sponsor Schedules H-5.2b and H-5.3b of SPS's rate filing
23 package ("RFP"). Schedule H-5.2b presents by generating station the Energy Supply

³ *Application of Southwestern Public Service Company for Approval of Transactions with ESI Energy, LLC and Invenergy Wind Development North America, LLC, to Amend a Certificate of Convenience and Necessity for Wind Generation Projects and Associated Facilities in Hale County, Texas and Roosevelt County, New Mexico, and for Related Approvals*, Docket No. 46936, Unopposed Stipulation at 6 (Feb. 27, 2018).

⁴ As I explain later in my testimony, SPS will continue to use Tolk assets other than the generating assets for voltage stability after 2032.

1 capital additions that are being added to rate base in this case. Schedule H-5.3b
2 presents similar data for a five-year historical period, the present year, and projected
3 for the next three years. SPS will file an updated Schedule H-5.2b in SPS's 45-day
4 case update filing to provide the information requested in this schedule through the
5 Update Period.

6 **Q. Please summarize your testimony and recommendations.**

7 A. I recommend that the Commission approve the requested amount of SPS's Energy
8 Supply capital additions in this proceeding. The Energy Supply capital additions for
9 the period from July 1, 2019 through December 31, 2020 total \$986,682,833 on a
10 total company basis, with \$63,800,501 of that amount attributable to projects placed
11 in service during the period from July 1, 2019 through September 30, 2020, and
12 \$922,882,332 attributable to projects placed in service or expected to be placed in
13 service during the period of October 1, 2020 through December 31, 2020. Because
14 the projects were reasonable and necessary to construct, equip, repair, and maintain
15 SPS's generating plants and to provide functional and safe facilities for SPS's
16 operations, the Commission should authorize these Energy Supply capital additions
17 to be included in SPS's rate base.

18 The affiliate charges that are included in the Energy Supply capital addition
19 costs reflect reasonable and necessary costs and services. The charges from SPS's
20 affiliates for a particular service are no higher than the charges by that affiliate to any
21 other entity for the same or similar service, and the services are provided at the
22 affiliate's cost. I recommend that the Commission approve these costs.

1 I also recommend the Commission approve SPS's proposal to change the
2 service lives of the Tolk generating assets, the Harrington coal-specific assets, and
3 Plant X Unit 3. The depreciation rates approved by the Commission should be based
4 on those revised service lives.

5 **Q. Were Attachments ML-RR-1, ML-RR-2, ML-RR-9, ML-RR-10, and the RFP**
6 **schedules that you sponsor or co-sponsor prepared by you or under your direct**
7 **supervision and control?**

8 A. Yes, as to Attachments ML-RR-9 and ML-RR-10. My staff and I helped prepare the
9 project descriptions in Attachments ML-RR-1 and ML-RR-2, and SPS witness Mark
10 P. Moeller and his staff provided the numbers for those attachments. The RFP
11 Schedules H-5.2b and H-5.3b were also prepared by Mr. Moeller and his staff. My
12 staff and I have reviewed these attachments and schedules, and we believe them to be
13 accurate.

14 **Q. Are Attachments ML-RR-3 through ML-RR-8 true and correct copies of the**
15 **documents that you represent them to be?**

16 A. Yes.

17 **Q. Do you incorporate into your testimony the RFP schedules and the portions of**
18 **the Executive Summary that you sponsor?**

19 A. Yes.

1 **III. SELECTION AND MANAGEMENT OF ENERGY**
2 **SUPPLY CAPITAL PROJECTS**

3 **Q. Please describe the Energy Supply business area and the work that Energy**
4 **Supply performs to support SPS's operations.**

5 A. The Energy Supply business area is a multi-regional organization of Xcel Energy.
6 Its primary purposes are the production of electricity and the delivery of that
7 electricity to the transmission systems of the Xcel Energy Operating Companies,
8 including that of SPS.⁵

9 **Q. Does the Energy Supply business area include smaller business units or groups?**

10 A. Yes. The Energy Supply business area consists of:

- 11 • an Operations unit that operates and maintains power plants in the Xcel
12 Energy Operating Companies' footprints, including the SPS region;
- 13 • an Environmental Services organization that supports the environmental
14 functions of the power plants;
- 15 • a Projects unit that provides project and engineering services for capital
16 additions;
- 17 • an engineering and technical support unit for O&M issues; and
- 18 • a Business Operations organization that performs asset analysis, budgeting,
19 reporting, and compliance.

20 **Q. What are the primary business drivers affecting Energy Supply's capital**
21 **expenditures?**

22 A. Multiple factors drive the Energy Supply capital requirements. From SPS's
23 perspective, the most significant factors include the age of SPS's units and the

⁵ Xcel Energy is the parent company of four utility operating companies: Northern States Power Company, a Minnesota corporation ("NSP-M"); Northern States Power Company, a Wisconsin corporation; Public Service Company of Colorado, a Colorado corporation; and SPS (collectively, "Operating Companies").

1 increased unit cycling made necessary by the Southwest Power Pool's ("SPP")
2 Integrated Marketplace. Another major driver of capital expenditures for SPS in
3 recent years has been the construction of new energy resources, such as Sagamore.

4 **Q. Does Energy Supply have a process that determines how capital projects are**
5 **evaluated and funded?**

6 A. Yes. The process begins at the plant level. As each new fiscal year approaches,
7 plant managers review their systems to identify and submit projects that they expect
8 to need over a five-year period.⁶ As part of that process, the plant managers review
9 operational and other data that allows them to identify and quantify how the
10 proposed project meets specific drivers and criteria. The plant managers specify the
11 identified information on the project document that they submit as part of the project
12 evaluation and budgeting process.

13 **Q. What criteria do the plant managers use to evaluate potential capital projects?**

14 A. The plant managers review and prioritize proposed capital projects using multiple
15 criteria, including financial metrics such as Present Value of Revenue Requirements.
16 They also review and evaluate operational factors such as the impacts on unplanned
17 outage rates, equipment condition, environmental compliance laws and regulations,
18 efficiency, reliability, capacity, and safety.

19 **Q. Do the plant managers focus on only near-term projects, or do they focus on**
20 **both near-term and long-term projects?**

21 A. They focus on both. Some projects that they evaluate result from an operational
22 issue requiring a near-term solution, such as an emergent need caused by a failed

⁶ In this part of my testimony, I use the phrase "plant managers" as a type of shorthand to encompass both the actual plant managers and the other employees who assist plant managers in the evaluation process.

1 piece of equipment. An example of a near-term project is a failed medium-voltage
2 motor that requires a replacement or rewind. Other projects may require multiple
3 years to engineer and execute, such as the replacement of parts on a combustion
4 turbine after years of operation. New generation projects also typically take years to
5 plan and construct.

6 **Q. Is there a review process to evaluate the capital expenditure proposals put forth**
7 **by the plant managers?**

8 A. Yes. Plant managers submit their proposed projects to a review committee of
9 engineers and subject matter experts. Based on a review of the need for a particular
10 project and the cost estimate for the project, the committee either approves or denies
11 the request. After a list of proposed projects is approved by that committee, it is
12 passed on to a Regional Planning Committee (“RPC”) that reviews and evaluates the
13 list of projects, the ranking attributes, the timing for the expenditures, the project
14 drivers, the supporting information, and the necessity of the projects.

15 **Q. How does the RPC evaluate and rank the projects submitted by the review**
16 **committee?**

17 A. The RPC assigns numerical points to the various factors considered in the evaluation
18 process, with all of the points being summed to create an overall score for the
19 project. The RPC then ranks the projects based on those overall scores to create a
20 prioritized list of projects, which is then evaluated in light of the available budget for
21 the next year, the planned unit outage schedule for the next several years, and other
22 factors such as new environmental regulations. The RPC then makes adjustments to
23 schedules and budgets as required to account for evolving conditions and factors, and
24 it proposes a final list of projects that meets the planned budget targets for the next

1 five years. This process allows SPS to submit a five-year projection of capital
2 expenditures with estimated in-service dates to the corporate capital budget process.

3 **Q. Does the RPC have any other role in the capital planning process?**

4 A. Yes. The RPC meets throughout the year to make adjustments to projects currently
5 under way and to recommend those “emergent projects” that must be undertaken to
6 meet operational or business requirements.⁷

7 **Q. Now that you have described the Energy Supply planning process generally,**
8 **please explain how the Energy Supply business area develops cost estimates for**
9 **proposed capital additions.**

10 A. The plant manager prepares the initial cost estimates and includes them in the project
11 request submitted to the RPC. The RPC then reviews the proposed project cost,
12 along with the other factors that I discussed earlier in my testimony. If the RPC finds
13 the project acceptable, the project is assigned to the regional engineering manager,
14 who then assigns it to a project manager for detailed engineering and development.
15 During this development stage, enough of the engineering work is undertaken to
16 arrive at a more precise cost estimate, with the engineering being performed by
17 internal engineers or by an external engineering organization, depending on the
18 complexity.

19 **Q. Does Energy Supply have a process to help manage capital costs?**

20 A. Yes. As I explained earlier, a capital project is assigned to a project manager after it
21 has been approved for execution, with that assignment typically occurring three to

⁷ As I will discuss in more detail later in my testimony, “emergent projects” are unplanned projects that become necessary during the course of a budget period because of an equipment failure or other incident that threatens safety or reliability.

1 six months in advance of the first activity required to commence the project. That
2 gives the project manager time to work with the plant engineering and technical
3 services personnel and other subject matter experts to review and more fully develop
4 the final scope, schedule, and monthly cash flow requirements for the assigned
5 project. As part of that process, the project manager is expected to identify
6 opportunities to control capital costs.

7 **Q. Is it typical for the Energy Supply organization to use competitive bidding to**
8 **manage capital costs?**

9 A. Yes. When feasible, the project manager solicits competitive bids for the project
10 work by using the Xcel Energy Supply Chain organization to firm up cost and
11 schedule data during the engineering and purchasing activities.

12 **Q. Is it possible for the budgeted capital expenditures to change during the**
13 **planning process or after the project is underway?**

14 A. Yes. After a project is funded and begins, the project manager receives weekly or
15 monthly reports that track actual expenditures and compares such expenditures to the
16 capital budget for the project. Each month, significant budget variances are noted
17 and reviewed to determine the cause for the variance and to identify corrective
18 actions that can be taken. If corrective action is necessary and feasible, it is
19 implemented. Sometimes the variance is simply a timing issue and no corrective
20 action is necessary.

21 In other cases, the budget may need to be amended because the project is
22 more or less costly than originally contemplated. In such situations, a scope or
23 budget change order is developed that revises the project to align with the current

1 needs. As the Director, Regional Capital Projects, I have reviewed and approved
2 those types of requests from time to time.

3 **Q. Earlier you referred to “emergent projects.” Please explain what those are and**
4 **how SPS budgets for them.**

5 A. During the course of outage inspections, Energy Supply employees sometimes
6 discover equipment that needs significant repair or replacement to maintain unit
7 reliability. In addition, equipment occasionally fails without warning. To ensure that
8 it has the funding to address those situations, Energy Supply includes an “Emergent
9 Fund” project for each generating plant when it submits its budget information.
10 During the year following that budget submission, if equipment fails or if an
11 inspection indicates that equipment needs significant repair or replacement, the plant
12 manager submits an “emergent project” request to secure funding for the repair or
13 replacement.

14 **Q. How are capital project costs captured in the Xcel Energy accounting system?**

15 A. SPS uses what it calls a Work Breakdown Structure (“WBS”), which Mr. Moeller
16 discusses in more detail in his direct testimony. Generally speaking, overall capital
17 projects are recorded at WBS Level 1, whereas sub-projects within the overall
18 project are recorded at lower WBS Level 2, WBS Level 3, or WBS Level 4.⁸

19 **Q. How are emergent projects recorded in the WBS hierarchy?**

20 A. The actual costs incurring during the course of an emergent project are recorded at
21 WBS Level 4. All of those WBS Level 4 costs are then rolled up to a WBS Level 2

⁸ I am not an accountant, nor am I an expert on the Xcel Energy accounting systems. I provide this information only to provide context for my later discussion of WBS levels.

1 Emergent Fund project number in the accounting records to track what the Emergent
2 Fund monies were actually used for.

3 **Q. Is a capital WBS Level 4 order closed as soon as the equipment subject to that**
4 **order is placed in service?**

5 A. No. Frequently, minor work continues after the equipment is placed in service, and
6 charges can continue for a short period after the in-service date is recognized on a
7 WBS Level 4 order. These charges can include recognition of the final bills from
8 vendors, testing of the equipment, and settlement of any disputes.

1 **IV. ENERGY SUPPLY CAPITAL ADDITIONS**

2 **Q. As part of this rate case, is SPS asking to include Energy Supply capital**
3 **additions in its rate base?**

4 A. Yes. SPS is asking to include in rate base the Energy Supply-related capital
5 additions that closed to plant-in-service during the 18-month period of July 1, 2019
6 through December 31, 2020. SPS has included these capital additions in its Updated
7 Test Year rate base. In Subsection A of this section, I address the capital additions
8 that closed to plant-in-service during the period from July 1, 2019 (the first day after
9 the end of the period for which capital additions were approved in Docket
10 No. 49831) through September 30, 2020 (the end of the Test Year). In Subsection B,
11 I discuss the capital additions that closed to plant-in-service or were expected to
12 close to plant-in-service during the period October 1, 2020 through December 31,
13 2020. All of these Energy Supply capital additions support SPS's ability to provide
14 safe and reliable electric service to its customers.

15 **Q. Do the Energy Supply capital additions include any significant new projects?**

16 A. Yes. Sagamore began commercial operation in December 2020. I provide more
17 details about Sagamore in Section V of my testimony.

18 **A. Energy Supply Capital Additions for the Period from July 1, 2019**
19 **through September 30, 2020**

20 **Q. What dollar amount of Energy Supply capital additions is SPS requesting in this**
21 **case for the period from July 1, 2019 through September 30, 2020?**

22 A. For the Energy Supply capital additions for the period from July 1, 2019 through
23 September 30, 2020, SPS is requesting \$63,800,501.05 on a total company basis.
24 That amount consists of:

- 1 • \$57,500,607 of Electric Production capital additions;
- 2 • \$5,875,731 of Electric Transmission capital additions; and
- 3 • \$424,163 of General plant capital additions.

4 SPS witness Stephanie N. Niemi allocates the total company dollar amount among
5 SPS’s jurisdictions (Texas retail; New Mexico retail; and wholesale) in the cost of
6 service study she presents.

7 **Q. Have you prepared a list of SPS’s requested Energy Supply capital additions**
8 **closed to plant in service during the period from July 1, 2019 through**
9 **September 30, 2020?**

10 A. Yes. My Attachment ML-RR-1 lists SPS’s Energy Supply capital additions for the
11 period from July 1, 2019 through September 30, 2020. Attachment ML-RR-1
12 contains the information listed in Table ML-RR-1:

13 **Table ML-RR-1**
14 **Information Contained in Attachment ML-RR-1**

Column A —	WBS Level 4 Number ⁹	Provides the WBS Level 4 number for the project.
Column B —	WBS Level 4 Description	Provides a short title for the WBS Level 4 number for the project.
Column C —	Asset Class	Identifies the type of asset.
Column D —	Witness	Identifies the witness supporting the project.
Column E —	Project Category	Provides the project category that is descriptive of the project’s type.

⁹ As I noted earlier in my testimony, Mr. Moeller discusses the WBS terminology in his direct testimony.

Column F —	WBS Level 2 Number	Provides the WBS Level 2 number for the project.
Column G —	WBS Level 2 Description	Provides a short title for the WBS Level 2 number for the project.
Column H —	In-Service Date	The month and year the project was placed in-service.
Column I —	Addition to Plant-in-service (July 2019 – September 2020)	The total company dollar amount of the addition to plant-in-service for the project.
Column J —	XES Charges (Included in Column I)	The amount of charges from XES that are included in the total company dollar amount of addition to plant-in-service for the project in Column I.
Column K —	Other Affiliate Charges (Included in Column I)	The amount of charges from affiliates other than XES that are included in the total company dollar amount of addition to plant-in-service for the project in Column I.
Column L —	Total Affiliate Charges (Included in Column I)	Total of Columns J and K associated with new plant-in-service shown in Column I.
Column M —	Total Native Charges (Column I less L) Within the Total Additions to Plant-in-service Shown in Column I	The total native charges associated with new plant-in-service shown in Column I.

1 **Q. Please describe the types of Energy Supply-related capital additions closed to**
2 **plant-in-service during the period from July 1, 2019 through September 30,**
3 **2020.**

4 A. As shown in Table ML-RR-2, the capital additions for this period fall within the
5 following categories: Reliability and Performance Enhancement, Environmental
6 Compliance, and New Generation.

Table ML-RR-2
Energy Supply Capital Investment
for the period from July 1, 2019 through September 30, 2020
(Total Company)

Project Category	Capital Additions
Reliability and Performance Enhancement	\$52,014,186
Environmental Compliance	\$1,557,667
New Generation	\$10,228,648
Total	\$63,800,501

Q. Please describe the types of projects included in the “Reliability and Performance Enhancement” category.

A. This category of investment contains the capital additions for maintaining and enhancing the safety, performance, and reliability characteristics of SPS’s existing production plant. For example, the replacement of equipment reduces the occurrence of unplanned outages and helps to maintain a high reliability factor, which reduces the need for higher cost replacement energy. Additionally, safety projects ensure a safe workplace for employees and enable SPS to meet the safety standards established by regulatory agencies. The total investment in this category amounts to approximately \$52 million during the period. Combined, the projects described below account for approximately 67% of the total capital additions in this category. The remaining 33% of the projects are similar in nature in that they maintain or enhance the operational performance and safety of SPS’s generating facilities, which is integral to SPS’s ability to provide reliable electric service to its customers.

- **Cunningham Unit 4 - Rewind Generator** - \$8,151,542 (Level 4 WBS A.0001545.129.001.002) This project consists of rewinding the generator stator and rotor as well as upgrading the high flow blower. This project is necessary due to an existing generator failure. Siemens has urgently

- 1 recommended replacement of the high flow blower at the same time as the
2 generator stator and rotor rewinds.
- 3 • **Nichols Unit 3 - Cooling Tower Structure** - \$4,232,762 (Level 4 WBS
4 A.0001560.094.001.002) This project completed the replacement of the
5 cooling tower structure. The cooling tower is over 50 years old and was in
6 degraded condition, as has been noted in reports by Burns Engineering, plant
7 engineering, and internal subject matter experts, all of whom opined that
8 structural replacement should be performed to prevent failure. The
9 degradation presented significant safety hazards to SPS personnel as well as
10 possible additional damage to the cooling tower.
 - 11 • **Cunningham Unit 2 - Replace Boiler Tubes** - \$3,961,586 (Level 4 WBS
12 A.0001545.131.001.001) This project replaced tubes in the front wall upper
13 arch, four corner burner panels, and a lower rear wall furnace door. It also
14 required asbestos abatement of the lower furnace starting at the burner
15 elevation, a boiler chemical clean, and all re-insulation. This work was
16 necessary due to hydrogen embrittlement damage. The Cunningham Unit 2
17 boiler had extensive under deposit corrosion in the rear wall nose arch, front
18 wall upper arch, burner corner panels, and new furnace door, and that
19 corrosion has caused several tube failures.
 - 20 • **Cunningham Unit 3 - Replace Cunningham 3 Compressor** - \$3,878,457
21 (Level 4 WBS A.0001545.124.001.002). During a borescope of
22 Cunningham Unit 3 compressor, Siemens found that all rotating and
23 stationary rows of compressor blades had significant damage. The turbine
24 rotor had to be shipped to a rotor shop to have new blades installed and to
25 undergo testing before returning to Cunningham. This project also included
26 an upgrade to the generator blower in accordance with the Original
27 Equipment Manufacturer's ("OEM") recommendations.
 - 28 • **Harrington Unit 2 - Generator Stator Rewind** - \$2,923,890 (Level 4 WBS
29 A.0001550.421.001.001) This project was to rewind the Harrington Unit 2
30 generator stator, which was necessary because the Unit 2 generator was
31 showing gradual degradation of the tube copper resistors due to the aging of
32 the original equipment and extended period of operation. That has caused
33 dust and excessive amounts of grease to be deposited within the machine.
34 The work was recommended by the OEM and Xcel Energy's internal subject
35 matter experts.
 - 36 • **Plant X Unit 4 - Rewind Generator Stator** - \$2,458,540 (Level 4 WBS
37 A.0001534.500.001.024) This project was to rewind the stator of the
38 generator on Plant X Unit 4. The generator was originally put in service in
39 1964 without any previous rewind history. An inspection found that the
40 generator stator needed to be rewound.

- 1 • **Harrington Unit 2 - Replace Foxboro Field Bus Modules (“FBM”) -**
2 \$1,814,085 (Level 4 WBS A.0001550.346.001.002) This project is to
3 replace the Foxboro FBMs with new conversion kits that allow for retention
4 of the nosecones so that field wiring does not have to be touched. The 100
5 Series FBMs were installed in the late 1980s and had come to the end of their
6 life cycle. SPS developed a staged replacement plan to replace control
7 system components just prior to their end-of-life, and this project follows the
8 developed plan.
- 9 • **Tolk Unit 1 Replace Reheat Loops - \$1,516,956 (Level 4 WBS**
10 **A.0001555.433.001.002)** This project replaced the bottom loops of the Tolk
11 Unit 1 Reheat. These tubes on that unit had been damaged from stress
12 corrosion cracking, which is caused by condensation pools during shutdowns
13 due to contaminants present in the condensate during cycling operation.
14 Those contaminants settle in the lower bend and begin to attack the metal,
15 causing the stress corrosion cracking.
- 16 • **Tolk Unit 0 - Replace Railroad Ties Phase 5 of 5 - \$900,495 (Level 4 WBS**
17 **Element A.0001555.104.001.002)** This project replaced approximately 0.60
18 miles of existing wooden railroad ties with concrete ties and new ballast. A
19 2018 track inspection completed by Dufrane Rail Service reported this
20 section of track to be in violation of Federal Railroad Administration
21 standards, which required replacement. This is the last portion of the track to
22 be replaced.
- 23 • **Tolk Units 1 and 2 - Replace Mill D and Mill E Gearboxes & Journals -**
24 **\$1,563,568 (Level 4 WBSs A.0001555.221.001.002 and**
25 **A.0001555.226.001.002)** These projects performed gearbox and journal
26 rebuids on Tolk Unit 1 Mill D and Tolk Unit 2 Mill E. These projects were
27 necessary because of the age of the mills and the failure rates of the gearbox
28 components, which have been in service since 1983. The manufacturer-
29 recommended life of the gearbox is 30 years with proper maintenance and
30 inspections. These projects will maintain SPS’s mills at optimal levels,
31 which will maintain coal quality and mill reliability. Keeping the mills in
32 optimal condition also reduces emissions and reduces slagging of the boiler
33 by keeping particle sizes small.
- 34 • **Tolk Unit 1 - Replace Mill C Shaft - \$722,877 (Level 4 WBS**
35 **A.0001555.500.001.038)** This project rebuilt the Tolk Unit 1 C Mill vertical
36 shaft, which was broken rendering the mill inoperable. The C Mill is
37 required to be operable to ensure SPS is able to operate if one of the other
38 mills fails.
- 39 • **Plant X Unit 4 - Rewedge Generator - \$718,361 (Level 4 WBS**
40 **A.0001534.187.001.002)** This project rewedged the Plant X Unit 4
41 generator. This work was recommended by Toshiba after a generator

- 1 inspection indicated approximately 50% of the wedges were moderately or
2 extremely loose.
- 3 • **Tolk Unit 2 - Replace Main Power Transformer** - \$697,009 (Level 4 WBS
4 A.0001555.296.001.002) This project consisted of purchasing a new main
5 power transformer for the unit. The previous unit failed catastrophically and
6 was damaged beyond repair. It had been in service for over 30 years.
 - 7 • **Jones Unit 4 Replace Exhaust Stack Silencer Baffle** - \$693,252 (Level 4
8 WBS A.0001586.308.001.002) This project replaced the existing exhaust
9 baffles with six new Siemens 501F3 exhaust silencer baffles. Because of the
10 number of hours of continuous service at elevated temperatures, pieces were
11 breaking off and being expelled from the stack, putting personnel and
12 equipment at risk.
 - 13 • **Harrington Unit 2 - Replace Steam Cooled Spacer Tubes** - \$639,585
14 (Level 4 WBS A.0001550.406.001.002) This project replaced a complete
15 run of the steam-cooled spacer tubes on all four superheat-division panels.
16 The steam-cooled spacer tubes maintain the alignment of the division panels
17 and prevent them from swaying. These tubes experience more than normal
18 mechanical wear as the division panels sway from side to side. The steam-
19 cooled spacer tubes on this unit were original and had been in service for
20 over 30 years. This project was necessary to prevent a major failure, which
21 would cause ancillary damage.

22 **Q. Please describe the types of projects included in the “Environmental**
23 **Compliance” category.**

24 A. This category of investment contains the capital additions necessary for ensuring
25 SPS’s compliance with existing federal and state environmental regulations,
26 including permits. For example, this category includes the necessary refurbishment
27 or replacement of equipment such as wastewater recovery systems, evaporation
28 ponds, landfill, and pollution control equipment needed to ensure continuing
29 compliance. The total investment in this category amounts to approximately
30 \$1.6 million during the period. Combined, the projects described below account for
31 approximately 83% of the total capital additions in this category. The remaining
32 17% of the projects are similar in nature in that they ensure SPS’s compliance with

existing environmental regulations and permit requirements, which is essential to maintaining the operational viability of SPS's generating facilities. For example, several of the remaining projects include replacement or installation of necessary pollution control equipment.

- **Cunningham Units 2 and 4 - Upgrade Continuous Emission Monitoring System Foxboro Systems** - \$491,576 (Level 4 WBS A.0001545.112.001.002 and A.0001545.104.001.002) These projects upgraded the Continuous Emissions System ("CEMS") Foxboro Systems. The Application Workstations that provide CEMS data management and system status monitoring for plant operation and regulatory reporting were obsolete and unreliable. Thus, plant technicians were having difficulty maintaining these systems because of lack of parts and constant failures.
- **Harrington Units 2 and 3 - Rebag Partial** - \$364,076 (Level 4 WBS A.0001550.235.001.002 and A.0001550.208.001.002) These projects replaced the baghouse bags in seven Unit 2 compartments and three Unit 3 compartments. On average, the filter bags have lasted 6-8 years. As the filter bags age they become more difficult to clean, resulting in higher bag-house pressure drop, more ID fan horsepower, boiler load limits, bag failures and opacity problems. With increased bag failures, higher bag-house pressure drops become more prevalent when the unit is at full load. When multiple compartments have reached this point, a forced de-rate occurs to protect the fans and boiler, which affects the unit's reliability and increases the risk of opacity violations. SPS therefore changes bags after the compartment has been in service for 8 years or 10% of the original bags have failed.
- **Nichols Unit 3 - Upgrade CEMS Foxboro Systems** - This project upgraded the CEMS Foxboro Systems. The Application Workstations that provided CEMS data management and system status monitoring for plant operation and regulatory reporting were obsolete and unreliable. Plant technicians had difficulty maintaining these systems because of lack of parts and constant failures.
- **Nichols Unit 0 - Replace Sprinkler Pivot S7** - \$207,605 (Level 4 WBS Element A.0001560.500.001.051 - This project replaced the existing sprinkler pivot S7 in section 7 near Pond 20. This work was necessary due to the number and frequency of repairs at that site.

1 **Q. Please describe the types of projects included in the New Generation category.**

2 A. This category of investment includes the capital additions necessary for constructing
3 Sagamore. The total investment in this category amounts to \$9.6 million (total
4 company). The projects described below account for 94% of the dollars of the total
5 capital additions in this category.

6 • **Sagamore Generating Facility – Network Upgrades** - \$5,324,463 (Level 4
7 WBS Elements A.0001402.009.001.002, A.0001402.011.001.002,
8 A.0001402.007.001.002, A.0001402.006.001.002, A.0001402.013.001.002)
9 This portion of the Sagamore investment contains funding for the Network
10 Upgrades necessary to interconnect Sagamore.

11 • **Hale Wind Project** – \$3,453,892 (Level 4 WBS Element
12 A.0001577.001.001.002) These charges represent the remaining costs of the
13 Hale Wind Project associated with the installation and erection of the
14 turbines.

15 • **Hale – Land Purchase for Overhead Bus project** – \$821,993.84 (Level 4
16 WBS Element A.0001577.002.001.004) These charges represent the costs to
17 purchase the land for the Overhead Bus project.

18 • **Sagamore Generating Facility – Transmission Serving Generation and
19 Substation** - \$397,047 (Level 4 WBS Elements A.0001577.004.001.002 and
20 A.0001577.005.001.002) - This contains the funding for the purchase and
21 installation of materials and equipment related to the collector substation and
22 345-kV transmission line for Sagamore.
23

24 **Q. Attachment ML-RR-1 includes capitalized affiliate costs. Were those affiliate
25 costs necessary to complete the projects listed in Attachment ML-RR-1?**

26 A. Yes. These affiliate charges are for engineering, construction, technical direction,
27 management, safety, and other related work to develop, procure, and install capital
28 additions at SPS generation facilities. In addition, the capital projects include
29 overhead charges that reflect labor and other costs as discussed by Mr. Moeller.
30 When those projects are complete, the costs, including the labor charges, are
31 recorded as new assets. Affiliate charges included in Attachment ML-RR-1 total

1 \$3,265,584, which is approximately 4.7% of SPS's total Energy Supply-related
2 capital costs for projects placed in service during the period July 1, 2019 through
3 September 30, 2020.

4 **Q. Are the costs of these capitalized affiliate charges reasonable?**

5 A. Yes. SPS witness David A. Low addresses the reasonableness of affiliate charges to
6 SPS during the Updated Test Year (January 1, 2020 through December 31, 2020) for
7 the Energy Supply business area, which includes the affiliate classes into which all of
8 these costs are collected. That discussion also applies to the capitalized affiliate costs
9 for the entire 18-month capital additions period. Thus, that discussion supports the
10 reasonableness and necessity of such affiliate costs for the period of July 1, 2019
11 through December 31, 2020. In addition, SPS witness Ross L. Baumgarten explains
12 that charges for labor and goods received by SPS from the Operating Companies and
13 XES are reasonable and necessary.

14 **Q. What is the difference between the affiliate charges for the Energy Supply**
15 **affiliate classes of service supported by Mr. Low and the affiliate charges**
16 **included in your Attachment ML-RR-1?**

17 A. The Energy Supply affiliate charges supported by Mr. Low reflect only affiliate
18 O&M expenses incurred during the Updated Test Year. In contrast, the affiliate
19 charges supported by my testimony encompass all of the affiliate charges that were
20 closed to plant-in-service during the period from July 1, 2019 through September 30,
21 2020. That is, I support affiliate charges that were capitalized over a 15-month
22 period, and Mr. Low supports affiliate O&M charges that were expensed in the
23 Updated Test Year.

1 **Q. Are the Energy Supply-related capital additions listed on Attachment ML-RR-1**
2 **that were closed to plant-in-service during the period July 1, 2019 through**
3 **September 30, 2020, including the capitalized affiliate charges, reasonable and**
4 **necessary?**

5 A. Yes. The capital projects listed in Attachment ML-RR-1 were necessary to maintain
6 the reliability, operational, safety, and environmental requirements of SPS's plants.
7 Equipment replacements (e.g., boiler tubes, burner ignitors, and condenser tubes)
8 reduce the occurrence of unplanned outages and help to maintain a high reliability
9 factor, which reduces the need for higher cost replacement energy and ensure
10 continued environmental compliance. Safety projects ensure a safe workplace for
11 employees and enable SPS to meet the safety standards established by regulatory
12 agencies. The process for developing costs and managing projects is discussed in
13 Section III. A. above.

14 **B. Energy Supply Capital Projects Placed in Service Between**
15 **October 1, 2020 and December 31, 2020**

16 **Q. What is the dollar amount of the Energy Supply-related capital additions placed**
17 **in service during the Update Period?**

18 A. The total dollar amount of Energy Supply-related capital additions closed to plant-in-
19 service during the Update Period is \$922,882,332 (total company). That amount
20 consists of:

- 21 • \$852,341,655 of Electric Production capital additions;
- 22 • \$69,935,437 of Electric Transmission capital additions; and
- 23 • \$605,240 of General plant capital additions.

1 The total company costs are reflected on Attachment ML-RR-2. Ms. Niemi allocates
2 the total company dollar amount among SPS's three rate jurisdictions (Texas retail;
3 New Mexico retail; and wholesale) in the cost of service study she presents.

4 **Q. Are the amounts in Attachment ML-RR-2 estimates?**

5 A. The costs reflected in Attachment ML-RR-2 are estimated amounts. Mr. Moeller
6 explains the basis for the estimated amounts. As discussed by Mr. Grant, SPS will
7 file actual costs for the Update Period, including an updated version of Attachment
8 ML-RR-2, no later than the 45th day after the date of the initial filing of this rate
9 case, as required by 16 TAC § 25.246.

10 **Q. Please describe the information in Attachment ML-RR-2, which provides the**
11 **dollar amounts for projects placed in service during the Update Period.**

12 A. Attachment ML-RR-2 provides the information listed below in Table ML-RR-3.

13 **Table ML-RR-3**
14 **Information Contained in Attachment ML-RR-2**

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 —	Addition to Plant-in-service (Oct. 2020 – Dec. 2020)	Provides the total company dollar amount of the addition to plant-in-service.
Column E —	Total Affiliate Charges (Included in Column D)	Provides the total XES charges and other affiliate charges associated with new plant-in-service shown in Column D.
Column F —	Project Description	Provides a description of the project and its major components.

1 **Q. Please describe the projects placed in service during the Update Period.**

2 A. The projects placed in service during the Update Period are similar to the projects
3 that were closed during the prior 15-month period, which are discussed in the
4 previous subsection of my testimony. As shown in Attachment ML-RR-2, all of the
5 capital additions for the Update Period fall within the following categories:
6 Reliability and Performance Enhancement, Environmental Compliance, and New
7 Generation. Those categories are described in Section IV.A of my testimony.

8 The projects placed in service during the Update Period support SPS's ability
9 to provide electric service to its customers and are necessary to maintain the
10 environmental, safety, performance, and reliability characteristics of SPS's existing
11 generation fleet. Descriptions of the specific projects placed in service during the
12 Update Period and the explanations for why the specific projects are necessary
13 appear on my Attachment ML-RR-2.

14 **Q. Has SPS managed its Update Period Energy Supply-related capital addition**
15 **projects to ensure the final, actual costs are reasonable and prudent?**

16 A. Yes. The same budgeting and project management process that I describe in
17 Section III of my testimony applies to the projects for the Update Period.

18 **Q. Are capitalized affiliate costs included in the total costs?**

19 A. Yes. The costs include capitalized affiliate costs similar to those included for
20 projects placed in service during the previous 15 months. As initially filed,
21 Attachment ML-RR-2 includes a total estimated amount of affiliate charges, which is
22 based on historical percentages for the different assets. This is explained in more
23 detail by Mr. Moeller. The updated version of Attachment ML-RR-2 will reflect
24 actual affiliate charges for each project in the period.

1 **Q. Are those affiliate costs necessary to complete the Energy Supply-related capital**
2 **projects?**

3 A. Yes. Affiliate costs were incurred for the same reasons they were incurred on the
4 projects placed in service between July 1, 2019 and September 30, 2020, which I
5 discussed earlier in my testimony.

6 **Q. Are these capitalized affiliate charges reasonable?**

7 A. Yes. These costs satisfy the standards for inclusion of affiliate costs in rates for the
8 reasons presented in the testimony of Mr. Low, Mr. Baumgarten, and Mr. Moeller
9 regarding the reasonableness of affiliate charges.

1 For Funds Used During Construction, all SPP-assigned generation
2 interconnection costs, and any necessary new transmission and
3 distribution equipment or upgrades to existing transmission or
4 distribution equipment.¹⁰

5 **Q. If the costs of the Hale assets that SPS placed in service in its last rate case are**
6 **added to the costs of the Hale and Sagamore assets that SPS seeks to place in**
7 **service in this case, is the total amount below the cost cap that SPS agreed to as**
8 **part of the settlement resolving Docket No. 46936?**

9 A. Yes. The total cost for all of Hale and Sagamore investment that will be placed in
10 service by December 31, 2020 will be approximately \$1,563 per kW on a total
11 company basis. That is well below the \$1,675 per kW cost cap agreed to in Docket
12 No. 46936. That amount includes the Allowance for Funds Used During
13 Construction (“AFUDC”), all SPP-assigned generation interconnection costs, and all
14 new transmission and distribution equipment or upgrades to existing transmission or
15 distribution equipment.

16 **Q. Does SPS expect to incur any additional costs related to Sagamore after**
17 **December 31, 2020?**

18 A. Yes. SPS expects to incur certain additional costs related to Sagamore after
19 December 31, 2020, and those costs will be included in rate base in SPS’s next base
20 rate case. But even with those additional forecasted costs, SPS expects the total
21 all-in capital cost for Hale and Sagamore to be no more than approximately \$1,610
22 per kW on a total company basis.

¹⁰ Docket No. 46936, Unopposed Stipulation at 6.

1 **Q. Please describe what is involved in building a wind generation project, including**
2 **the major construction components of Sagamore.**

3 A. Constructing a wind generation project such as Sagamore generally involves the
4 following components: construction of turbine access roads; construction of turbine
5 foundations; tower erection; trenching the collector system; constructing the collector
6 substation; constructing a high voltage generation tie line; and constructing an O&M
7 building.

8 **Q. What major contracts did SPS or its affiliates enter into associated with the**
9 **capital costs of Sagamore?**

10 A. There are several major contracts associated with the capital costs of Sagamore.
11 Each of these contracts was introduced as part of Docket No. 46936.

12 1. Capital Services, LLC, an affiliate of Xcel Energy, (“Capital Services”) entered into a Master Supply Agreement (“MSA”) with Vestas for model 2.0
13 MW V110 Vestas wind turbines.¹¹ The MSA ensured that sufficient turbines
14 were purchased to comply with the safe harbor requirements under the
15 Omnibus Appropriations Act (“OAA”) for Production Tax Credit (“PTC”) benefits.
16
17

18 2. Under the scope of the MSA, SPS executed a Turbine Supply Agreement (“TSA”) with Vestas to purchase the additional turbines needed to complete
19 the development of the SPS Projects and deliver the turbines to the Sagamore
20 site.¹²
21

22 3. SPS entered into a Sale of Components Agreement with Capital Services to purchase the wind turbines that were purchased to comply with the safe
23 harbor requirements under the OAA.¹³
24

25 4. SPS entered into a Purchase and Sale Agreement (“PSA”) to acquire the wind
26 development rights from Invenergy for the Sagamore Wind Project. Under

¹¹ See Attachment ML-RR-4(V)(HS).

¹² See Attachment ML-RR-5(V)(HS).

¹³ See Attachment ML-RR-6.

1 the PSA, the developer was required to provide a site ready for SPS to begin
2 construction.¹⁴

3 5. SPS entered into a fixed price Balance of Plant (“BOP”) construction
4 contract for the installation of the wind turbines and construction of the site’s
5 infrastructure.¹⁵

6 **Q. Please describe the MSA.**

7 A. On September 15, 2016, Capital Services entered into the fixed price MSA with
8 Vestas, a leading international wind turbine supplier with manufacturing operations
9 in Colorado. The MSA governs the purchase of turbines, the delivery, inspection,
10 storage, and maintenance of the turbines, as well as the timelines for completion of
11 the turbines.

12 Capital Services entered into the MSA with Vestas only after Xcel Energy
13 obtained pricing from both Vestas and other major international wind turbine
14 manufacturers, as part of an analysis for potential wind projects for the Xcel Energy
15 Operating Companies. Xcel Energy determined that the Vestas proposal offered
16 more favorable pricing and conditions, and the MSA is the result of comprehensive
17 negotiations between Xcel Energy and Vestas.

18 **Q. Why did Capital Services enter into the MSA with Vestas?**

19 A. To receive 100% of the PTC benefits, SPS or its affiliates had to spend 5% of the
20 total cost of the project by December 31, 2016. At that time, SPS had not completed
21 negotiations for the PSA and had not received regulatory approvals for the project,
22 and therefore it did not know how many turbines it would need to purchase. Because

¹⁴ See Attachment ML-RR-7(V).

¹⁵ See Attachment ML-RR-8(V)(HS).

1 SPS was not in a position to purchase the turbines and other assets from Vestas in
2 2016, Capital Services made those purchases for the benefit of SPS and its
3 customers.

4 **Q. Please describe the TSA in more detail.**

5 A. SPS entered into the TSA with Vestas on June 15, 2018. The TSA enabled the
6 purchase of the additional turbines and related equipment and delivery needed to
7 complete Sagamore. The TSA also: (1) incorporates typical turbine performance
8 terms; (2) requires timely manufacturing production, delivery, and commissioning;
9 (3) includes standard industry warranties and a supplier parent guaranty; and (4)
10 incorporates liquidated damages clauses for failure to achieve the contractual
11 milestones.

12 **Q. What types of costs did SPS incur under the Capital Services Agreement?**

13 A. SPS paid a “Confirmation Price” and a carrying charge. The “Confirmation Price”
14 consists of:

- 15 1. the price paid by Capital Services to Vestas for the turbines; and
- 16 2. the estimated “Incremental Costs,” which included:
 - 17 a. storage and maintenance fees for the period from the date Capital
18 Services took delivery of the turbines to the date on which it
19 delivered the turbines to SPS; and
 - 20 b. the cost of insuring the turbines for the period from the date Capital
21 Services took delivery of the turbines to the date on which it
22 delivered the turbines to SPS.

23 The carrying charge was calculated by applying SPS’s AFUDC rate to the purchase
24 price of the turbines for each month or partial month in the “Carrying Period.” The
25 Carrying Period is defined as the period from the date on which Capital Services

1 purchased the turbines until the date on which title to the turbines passes from
2 Capital Services to SPS.¹⁶

3 **Q. Were the costs that SPS paid to Capital Services reasonable?**

4 A. Yes. SPS paid a total of \$61,390,572 to Capital Services, broken down as follows:

5 **Table ML-RR-4**

Description	Amount (total company)
Turbines and Towers	\$45,887,400
Storage Fees	1,909,127
Insurance	24,420
Carrying Costs	10,576,744
Sales Tax	2,992,881
Total	\$61,390,572

6 Those amounts are reasonable because:

- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20
- Capital Services sold the turbines and towers to SPS for the same amount that Capital Services paid Vestas for those turbines and towers. The amount paid by Capital Services to Vestas for the assets was a negotiated price agreed to by independent parties in an arm's length transaction.
 - Capital Services charged only the out-of-pocket costs that it incurred for storage of the turbines and insurance on those turbines. It is reasonable for SPS to reimburse Capital Services for those out-of-pocket costs.
 - Capital Services advanced the money to purchase turbines on behalf of SPS and its customers, and should be compensated for having expended funds to make a purchase that enables SPS and its customers to take advantage of 100% of the PTCs available from Sagamore. The AFUDC rate is a reasonable basis for the Carrying Cost because it reasonably approximates SPS's own carrying costs for purchasing components to be installed at generating facilities.

¹⁶ Under the Sale of Components Agreement, AFUDC is prorated for partial months.

1 **Q. Please describe the PSA in more detail.**

2 A. On March 9, 2017, SPS entered into a PSA with Invenergy for the acquisition of the
3 Sagamore site. Under the PSA, Invenergy was responsible for making the site
4 “construction ready,” while SPS was responsible for construction, including roads,
5 and procurement of turbines or other equipment under the MSA or future TSAs. A
6 copy of the PSA is provided as Attachment. ML-RR-5(V)(HS).

7 **Q. Please describe the BOP.**

8 A. On October 13, 2017, SPS entered into a fixed-price engineering, procurement, and
9 construction agreement for the installation of the wind turbines and construction of
10 the site’s infrastructure. The BOP contract bids were solicited based on the layout
11 and size of Sagamore. The scope of work for the BOP contractor included five
12 different areas: civil, substation, generation tie line, collection system, and turbine
13 erection. Civil work consisted of constructing the new roads to each turbine location,
14 upgrading existing roads (both private and state- or county-owned), and maintaining
15 the roads throughout the construction process. Civil work also included the
16 construction of wind turbine foundations. Substation work included substation
17 design and construction. Collection system work included the underground power
18 and control wiring from each turbine to the substation. The generation tie line is the
19 high-voltage transmission line from the collector substation to the point of
20 interconnection to the Transmission System. Tower erection included the setting of
21 the tower sections, installation of the nacelle, blades, and hub, and the installation of
22 the auxiliary equipment associated with the turbine.

1 **Q. What was the process used for selecting the BOP contractor?**

2 A. The BOP contractor selection process for Sagamore followed Xcel Energy's
3 corporate policy for the procurement of services of this type. A Request for Proposal
4 was issued to three nationally recognized wind farm construction firms that were
5 known to have BOP engineering and constructing experience for projects similar to
6 the size and complexity to Sagamore.

7 The Request for Proposal was originally issued by SPS's affiliate, NSP-M in
8 February 2017 for BOP engineering and construction efforts supporting four wind
9 projects located in Minnesota and North Dakota. An addendum to the Request for
10 Proposal was subsequently issued to bidders in July 2017 to also include the Hale
11 and Sagamore projects in order to leverage economies of scale, provide for
12 construction efficiencies between the winter and summer construction seasons, and
13 reduce BOP costs.

14 Considering engineering design was approximately 30% complete and not
15 fully defined at the time that the bids were sought during the Request for Proposal
16 process, pricing from bidders was obtained based on open book pricing with firm
17 unit rates with anticipated quantities for items such as collector system, roads, and
18 foundation. Bid evaluation considerations included safety, pricing, technical
19 experience, execution plan, and commercial criteria such as warranties, project
20 schedule adherence, performance guarantees, financial strength of the bidders,
21 payment schedules, and insurance.

22 The commercial agreement was designed to "close" with pricing becoming
23 firm upon the completion of design, final quantities known, and issue for

1 construction (“IFC”) drawings completed. Commercial risks were mitigated during
2 the open book agreement process through the issuance to the contractor of periodic
3 limited notices to proceed; the contractor was not fully released to perform all BOP
4 work until the all quantities were known, IFC drawings issued, and final pricing was
5 established to the satisfaction of SPS.

6 **Q. Please generally explain how the construction process was managed.**

7 A. For Sagamore, XES and SPS personnel assumed overall project management
8 responsibility. In addition to internal personnel, both Vestas and the selected BOP
9 contractor, Wanzek Construction, had project management and engineering
10 personnel on site. Resources (both personnel and equipment) were managed by the
11 entire Sagamore team to advance the project. SPS also used night crews to take
12 advantage of low wind times for tower erection.

13 **Q. Through project completion, was construction performed and executed as**
14 **planned?**

15 A. Yes. SPS used schedule flexibility and personnel flexibility to have productive work
16 performed to accommodate poor weather days throughout the project. With this
17 flexibility, SPS was able to avoid significant change orders and acceleration costs. In
18 addition, SPS authorized the BOP contractor to lock in materials needed for
19 construction as needed, which mitigated the risk associated with these costs.

1 **VI. CHANGES IN USEFUL LIVES OF GENERATING ASSETS**

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

3 A I first provide an overview of Tolk and explain how SPS plans to operate that facility
4 on a going-forward basis. Next, I discuss SPS's plan to cease burning coal at
5 Harrington by year-end 2024, and I support SPS's request to reduce the service lives
6 of the Harrington coal-specific assets, which will not be in service after year-end
7 2024. Finally, I discuss SPS's request to retire Plant X Unit 3 at year-end 2022.

8 **A. Tolk Generating Station**

9 **Q. Please briefly describe Tolk.**

10 A Tolk consists of two coal-powered steam turbine units located in Lamb County,
11 Texas. Tolk Unit 1 has a net capacity of 540 MW, and Tolk Unit 2 has a net capacity
12 of 542 MW, for a total net capacity of 1,082 MW.

13 **Q. When did the Tolk Units begin commercial operation?**

14 A Tolk Unit 1 began commercial operation in 1982. Tolk Unit 2 began commercial
15 operation in 1985.

16 **Q. What were the originally approved service lives for the Tolk units?**

17 A The Tolk units originally had 35-year approved service lives in New Mexico. Under
18 those originally approved service lives, Tolk Unit 1 would have been retired in 2017,
19 and Tolk Unit 2 would have been retired in 2020. In subsequent rate cases, however,
20 the service lives of both units were extended from 35 years to 60 years.

21 **Q. Does SPS plan to generate electricity from the Tolk units on a year-round basis**
22 **until they are retired at the end of 2032?**

23 A No. In order to conserve the economically recoverable water from the Ogallalla
24 Aquifer, SPS will reduce generating operations at Tolk on a going-forward basis.

1 Beginning in 2021, SPS will economically dispatch the Tolk units only during the
2 on-peak months. In the off-peak months, the Tolk units will be offline unless called
3 upon by SPP to run. To support voltage stability for the transmission system during
4 periods when the Tolk units are not being used to generate energy, the Tolk facility
5 will be used for voltage stability purposes. SPS has installed synchronous condenser
6 equipment at Tolk, and those synchronous condensers will operate through 2055.
7 SPS witness Jarred J. Cooley discusses the need for the synchronous condenser
8 equipment in more detail in his testimony.

9 **B. Harrington Generating Station**

10 **Q. Please describe SPS's plan to cease burning coal at Harrington.**

11 A. On November 10, 2020, SPS announced that it had reached an agreement with the
12 TCEQ to cease burning coal at Harrington by year-end 2024.

13 **Q. How will that affect the service lives of the assets at Harrington?**

14 A. The conversion will not affect the service lives of most of the Harrington assets
15 because the units at that plant were originally designed to burn either coal or natural
16 gas. However, the coal-specific assets at Harrington will become obsolete after
17 2024, because those assets cannot be used to deliver natural gas to the generating
18 facility. For that reason, SPS requests that the Commission approve depreciation
19 rates for the coal-specific assets based on a service life ending in December 2024.

20 **Q. Please describe the specific Harrington assets that are encompassed within the**
21 **phrase "coal-specific assets."**

22 A. The phrase "coal-specific assets" encompasses the bottom ash system, the coal
23 feeder system, the coal handling system, the fly ash disposal system, the
24 precipitator/ash collection system, the railway system, the soot blowing system, and

1 the dust collection system. My staff provided Mr. Moeller with the information he
2 needed to assign new service lives to those assets.

3 **C. Plant X Unit 3**

4 **Q. Please describe Plant X Unit 3.**

5 A. Plant X Unit 3 is one of four generating units at Plant X, a natural gas-fired
6 generating station located near Earth, Texas. Plant X Unit 3 has a rated capacity of
7 93 MWs.

8 **Q. Why is SPS proposing to abandon and retire Plant X Unit 3?**

9 A. Plant X Unit 3 was placed in service in 1955, so it is approximately 65 years old, and
10 its outages have become more frequent in recent years. After the most recent outage,
11 SPS concluded that it would not be cost-effective to incur the capital and O&M costs
12 to return Plant X Unit 3 to service, particularly since the unit is not needed for
13 capacity.

14 **Q. Has SPS determined how much it would cost to return Plant X Unit 3 to**
15 **service?**

16 A. Yes. In January 2020, SPS performed an initial analysis that concluded it would
17 require capital expenditures of approximately \$4.5 million just to repair the Unit 3
18 boiler, although that repair alone would not be sufficient to allow Unit 3 to run
19 reliably and efficiently.¹⁷ SPS also determined that it would need to incur
20 approximately \$625,000 of incremental O&M costs if Unit 3 was returned to service.
21 Based on that initial analysis, SPS decided it would not be cost-effective to restore
22 the unit to service.

¹⁷ That initial analysis is Attachment ML-RR-9.

1 In preparation for its request to abandon and retire Unit 3, SPS performed a
2 new, more comprehensive analysis in December 2020 to determine whether it was
3 still more cost-effective to retire the unit than to return it to service. That analysis,
4 which is Attachment ML-RR-10, concluded that it would require capital
5 expenditures of approximately \$10.5 million to repair the boiler and to complete all
6 of the other repairs that would be necessary for Unit 3 to run reliably and efficiently
7 for any appreciable length of time. In addition, SPS concluded that it would need to
8 incur nearly \$1 million of incremental O&M costs if the unit were returned to
9 service. That analysis confirmed that it would not be cost-effective to incur the
10 significant costs necessary to return Plant X Unit 3 to service.

11 **Q. Does this conclude your pre-filed direct testimony?**

12 A. Yes.

AFFIDAVIT

STATE OF TEXAS)
)
COUNTY OF POTTER)

MARK LYTAL, first being sworn on his oath, states:

I am the witness identified in the preceding testimony. I have read the testimony and the accompanying attachment(s) and am familiar with the 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 Lytal

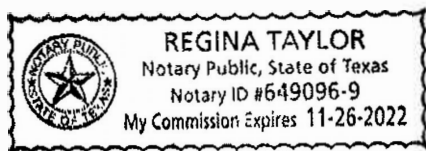
MARK LYTAL

Subscribed and sworn to before me this 2 day of February, 2021 by
MARK LYTAL.



Regina Taylor
Notary Public, State of Texas

My Commission Expires: 11/26/22



Southwestern Public Service Company
Energy Supply Capital Additions
July 1, 2019 through September 30, 2020

	(A)	(B)	(C)	(D)	(E)	(F)
Line No.	WBS Level 4 Number	WBS Level 4 Description	Asset Class	Witness	Project Category	WBS Level 2 Number
1	A.0003000.663.001.001	CHCOC-Cunningham Tools	Electric General	Lyal	Reliability & Performance Enhancement	A.0003000.663
2						A.0003000.663 Total
3	A.0003000.668.001.001	HAROC-Purchase Plant Tools	Electric General	Lyal	Reliability & Performance Enhancement	A.0003000.668
4						A.0003000.668 Total
5	A.0003000.673.001.001	JONOC-Capital Tools	Electric General	Lyal	Reliability & Performance Enhancement	A.0003000.673
6						A.0003000.673 Total
7	A.0003000.674.001.001	MADOC-Maddox Tools	Electric General	Lyal	Reliability & Performance Enhancement	A.0003000.674
8						A.0003000.674 Total
9	A.0003000.675.001.001	NICOC-Purchase Plant Tools	Electric General	Lyal	Reliability & Performance Enhancement	A.0003000.675
10						A.0003000.675 Total
11	A.0003000.684.001.002	TOLOC- Tolk Tool Blanket	Electric General	Lyal	Reliability & Performance Enhancement	A.0003000.684
12						A.0003000.684 Total
13	A.0006056.227.001.002	GMSOC-Pur Vehicles SPS 2017	Electric General	Lyal	Reliability & Performance Enhancement	A.0006056.227
14	A.0006056.227.001.003	GMSOC-Pur Vehicles SPS 2018	Electric General	Lyal	Reliability & Performance Enhancement	A.0006056.227
15						A.0006056.227 Total
16			Total Electric General			
17	A.0001529.501.001.007	MAD2C Rpl MP XFMR Diff Relay	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001529.501
18						A.0001529.501 Total
19	A.0001545.501.001.011	CHC4C-Rpl Submersible Pmp	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001545.501
20	A.0001545.501.001.012	CHC3C-Rpl Main Gas Valve	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001545.501
21	A.0001545.501.001.013	CHC3C Generator Bellows Mod	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001545.501
22	A.0001545.501.001.010	CHC4C-Rpl Main Gas Viv	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001545.501
23						A.0001545.501 Total
24	A.0001554.501.001.002	QUA1C-Rpl Starting Diesel Rad	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001554.501
25	A.0001554.501.001.003	QUA0C-Rpl Inst Comp Air Dryer	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001554.501
26						A.0001554.501 Total
27	A.0001639.001.001.002	CHC3C-Major-Upg all hot path	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001639.001
28						A.0001639.001 Total
29	A.0001577.002.001.004	Hale- Land Purchase for OH Bus	Electric Production	Lyal	New Generation	A.0001577.002
30						A.0001577.002 Total
31	A.0001529.500.001.014	MAD1C-Rpl Cond Pmp	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001529.500
32	A.0001529.500.001.008	MAD0C-Rpl HVAC Chromatograph	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001529.500
33	A.0001529.500.001.016	MAD1 RPL BFP Recirc Vibs	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001529.500
34						A.0001529.500 Total
35	A.0001534.500.001.007	PLX2C-Rpl Yarway Drum.vl Xntr	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001534.500
36	A.0001534.500.001.016	PLX0C-Replace Water Wells	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001534.500
37	A.0001534.500.001.022	PLX4C-Rpl Boiler Ignitor Horns	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001534.500
38	A.0001534.500.001.025	PLX1C Rpl Battery Charger	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001534.500
39	A.0001534.500.001.020	PLX0C-Rpl CT Gearbox	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001534.500
40	A.0001534.500.001.027	PLX0C Centrifuge on Mobile Skid	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001534.500
41	A.0001534.500.001.024	PLX4C-Rewind X4 Gen Stat	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001534.500
42	A.0001534.500.001.037	PLX4 Rpl Htr 1 Wtr Side Prv	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001534.500
43	A.0001534.500.001.021	PLX4C-Rewind X4 E BFP Motor	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001534.500
44	A.0001534.500.001.019	PLX1C-Rpl SH Vent RmtVlv Operator	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001534.500

Southwestern Public Service Company

Energy Supply Capital Additions
July 1, 2019 through September 30, 2020

	(A)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
Line No.	WBS Level 4 Number	WBS Level 2 Description	In-Service Date	Additions (Jul 2019 Sep 2020)	XES Charges (Included in Column I)	Other Affiliate Charges (Included in Column I)	Total Affiliate Charges (Included in Column I)	Total Native Charges (Columns I less L) Within the Total Additions to Plant-in-Service Shown in Column (I)
1	A.0003000.663.001.001	CHC0C-Cunningham Tools	Routine	\$ 13,027.57	\$ -	\$ -	\$ -	13,027.57
2				13,027.57	-	-	-	13,027.57
3	A.0003000.668.001.001	HAR0C-Purch Plant Tools	Routine	65,093.47	-	-	-	65,093.47
4				65,093.47	-	-	-	65,093.47
5	A.0003000.673.001.001	JON0C-Capital Tools	Routine	36,393.20	-	-	-	36,393.20
6				36,393.20	-	-	-	36,393.20
7	A.0003000.674.001.001	MAD0C-Purchase Cap Tools	Routine	106,051.62	-	-	-	106,051.62
8				106,051.62	-	-	-	106,051.62
9	A.0003000.675.001.001	NIC0C-Purch Plant Tools	Routine	38,120.01	-	-	-	38,120.01
10				38,120.01	-	-	-	38,120.01
11	A.0003000.684.001.002	TOL0C - Purch Misc Tools	Routine	64,691.46	-	-	-	64,691.46
12				64,691.46	-	-	-	64,691.46
13	A.0006056.227.001.002	GSM0C Purchase Vehicles	Routine	700.46	-	-	-	700.46
14	A.0006056.227.001.003	GSM0C Purchase Vehicles	201805	100,084.88	6,428.12	-	6,428.12	93,656.76
15				100,785.34	6,428.12	-	6,428.12	94,357.22
16				424,162.67	6,428.12	-	6,428.12	417,734.55
17	A.0001529.501.001.007	MAD Emergent Fund-Other prod	202006	39,270.38	-	-	-	39,270.38
18				39,270.38	-	-	-	39,270.38
19	A.0001545.501.001.011	CHC Emergent Fund -Other prod	201906	(466.46)	-	-	-	(466.46)
20	A.0001545.501.001.012	CHC Emergent Fund -Other prod	201911	14,944.66	-	-	-	14,944.66
21	A.0001545.501.001.013	CHC Emergent Fund -Other prod	202007	128,034.05	2,610.94	-	2,610.94	125,423.11
22	A.0001545.501.001.010	CHC Emergent Fund -Other prod	201906	0.01	-	-	-	0.01
23				142,512.26	2,610.94	-	2,610.94	139,901.32
24	A.0001554.501.001.002	QUA Emergent Fund - Other Prod	201812	52,556.94	4,739.76	-	4,739.76	47,817.18
25	A.0001554.501.001.003	QUA Emergent Fund - Other Prod	202007	17,234.83	-	-	-	17,234.83
26				69,791.77	4,739.76	-	4,739.76	65,052.01
27	A.0001639.001.001.002	CHC3C-Major-Upg all hot path	201705	334.65	-	-	-	334.65
28				334.65	-	-	-	334.65
29	A.0001577.002.001.004	Hale-Land & Land Rights	202004	821,993.84	-	-	-	821,993.84
30				821,993.84	-	-	-	821,993.84
31	A.0001529.500.001.014	MAD Emergent Fund -Steam prod	201906	5.83	-	-	-	5.83
32	A.0001529.500.001.008	MAD Emergent Fund -Steam prod	201906	0.01	-	-	-	0.01
33	A.0001529.500.001.016	MAD Emergent Fund -Steam prod	202002	48,651.74	2,868.93	-	2,868.93	45,782.81
34				48,657.58	2,868.93	-	2,868.93	45,788.65
35	A.0001534.500.001.007	PLX Emergent Fund -Steam prod	201812	(729.36)	-	-	-	(729.36)
36	A.0001534.500.001.016	PLX Emergent Fund -Steam prod	201812	1,651.25	-	-	-	1,651.25
37	A.0001534.500.001.022	PLX Emergent Fund -Steam prod	201908	36,840.40	-	-	-	36,840.40
38	A.0001534.500.001.025	PLX Emergent Fund -Steam prod	202005	36,069.25	5,952.15	-	5,952.15	30,117.10
39	A.0001534.500.001.020	PLX Emergent Fund -Steam prod	201906	(95.99)	-	-	-	(95.99)
40	A.0001534.500.001.027	PLX Emergent Fund -Steam prod	202005	48,853.50	-	-	-	48,853.50
41	A.0001534.500.001.024	PLX Emergent Fund -Steam prod	201910	2,458,540.44	43,545.44	-	43,545.44	2,414,995.00
42	A.0001534.500.001.037	PLX Emergent Fund -Steam prod	202008	4,970.65	-	-	-	4,970.65
43	A.0001534.500.001.021	PLX Emergent Fund -Steam prod	201906	4,508.30	-	-	-	4,508.30
44	A.0001534.500.001.019	PLX Emergent Fund -Steam prod	202001	24,312.00	-	-	-	24,312.00

Southwestern Public Service Company

Energy Supply Capital Additions
July 1, 2019 through September 30, 2020

(A)		(B)	(C)	(D)	(E)	(F)
Line No.	WBS Level 4 Number	WBS Level 4 Description	Asset Class	Witness	Project Category	WBS Level 2 Number
45	A.0001534.500.001.023	PLX4C-Rewind X4 W BFP Motor	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001534.500
46	A.0001534.500.001.031	PLX0C Rpl RO Pump Shaft Assembly	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001534.500
47	A.0001534.500.001.033	Andrea.E.K	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001534.500
48						A.0001534.500 Total
49	A.0001545.500.001.024	CHC2C Rpl CT Stairs with Ladder	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001545.500
50	A.0001545.500.001.019	CHC0C Rpl RO Booster Pump	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001545.500
51	A.0001545.500.001.020	CHC2C Rpl CT Gearboxes	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001545.500
52	A.0001545.500.001.016	CHC0C-Rpl Backflow Preventer	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001545.500
53	A.0001545.500.001.012	CHC0C-Rpl HVAC Chromatograph	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001545.500
54	A.0001545.500.001.021	CHC0C Rpl Septic Tank	Electric Production	Lyal	Environmental Compliance	A.0001545.500
55	A.0001545.500.001.017	CHC2C-Rpl RH Spray Block Vlv	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001545.500
56	A.0001545.500.001.015	CHC0C-Rpl Unit Heaters	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001545.500
57	A.0001545.500.001.023	CHC2C BFP Element	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001545.500
58	A.0001545.500.001.018	CHC0 Rpl N Blowdown Pump	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001545.500
59						A.0001545.500 Total
60	A.0001550.244.001.002	HAR0C-Rpl SBAC Controls	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.244
61						A.0001550.244 Total
62	A.0001550.308.001.001	HAR2C-H2 Upgrd DCS Opr stn	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.308
63						A.0001550.308 Total
64	A.0001550.500.001.034	HAR0C-Inst Vlv on BD Recovery	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500
65	A.0001550.500.001.060	HAR2C-Rpl Actuator Ext Block Vlv #5	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500
66	A.0001550.500.001.048	HAR1C-Rpl MC3 Analyzer Board	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500
67	A.0001550.500.001.063	HAR2C CT Cell 15 Mtr Rwind	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500
68	A.0001550.500.001.097	HAR2C Rpl W Reheat Drain Vlv Actuat	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500
69	A.0001550.500.001.099	HAR2C Rpl 2A Mill Duct Exp Jnt	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500
70	A.0001550.500.001.049	HAR1C-Rpl Hg Probe & Elec Pul	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500
71	A.0001550.500.001.077	HAR2C Rpl ID Fan Disch Dampers	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500
72	A.0001550.500.001.066	HAR0C Rpl Welding Slip East OH DR	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500
73	A.0001550.500.001.111	HAR1C Rpl Big Blowdown Vlv	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500
74	A.0001550.500.001.059	HAR2C-Rebuild 2C SBAC Blower	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500
75	A.0001550.500.001.096	HAR2C Rpl FWH 3 Steam Separator	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500
76	A.0001550.500.001.047	HAR1C-Rpl EMRC Flow Probe	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500
77	A.0001550.500.001.044	HAR0C-Rpl SU XFMR Bushings	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500
78	A.0001550.500.001.082	HAR0C-Rpl No 3 Inj Well DV Acrr	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500
79	A.0001550.500.001.050	HAR1C-Rpl FD Fan Rm W Ovoid Door	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500
80	A.0001550.500.001.057	HAR3C-Rewind W ID Fan Motor	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500
81	A.0001550.500.001.088	HAR1C Install Catcon Conductivity/D	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500
82	A.0001550.500.001.069	HAR3C W BCP Motor Rewind	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500
83	A.0001550.500.001.091	HAR2C Inst Diss O2 Analyzer	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500
84	A.0001550.500.001.100	HAR2C ID Fan Damper Actuator	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500
85	A.0001550.500.001.102	HAR2C-Rpl Steam Driven BFP	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500
86	A.0001550.500.001.053	HAR1C-E BCP Mtr Rewind	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500
87	A.0001550.500.001.092	HAR2C Rpl C Circ Suction Gear	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500
88	A.0001550.500.001.089	HAR3C Install Catcon Conductivity/D	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500
89	A.0001550.500.001.055	HAR2C-C Circ Pmp Mtr Var Xfmr	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500
90	A.0001550.500.001.072	HAR3C Rpl Deluge Vlv Cntrl Pnl	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500
91	A.0001550.500.001.065	HAR2C Instl Sootblwr Blck Vlv	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500

Southwestern Public Service Company

Energy Supply Capital Additions
July 1, 2019 through September 30, 2020

	(A)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
Line No.	WBS Level 4 Number	WBS Level 2 Description	In-Service Date	Additions (Jul 2019 Sep 2020)	XES Charges (Included in Column I)	Other Affiliate Charges (Included in Column I)	Total Affiliate Charges (Included in Column I)	Total Native Charges (Columns I less L) Within the Total Additions to Plant-in-Service Shown in Column (I)
45	A.0001534.500.001.023	PLX Emergent Fund -Steam prod	201906	16,452.77	-	-	-	16,452.77
46	A.0001534.500.001.031	PLX Emergent Fund -Steam prod	202007	8,782.50	-	-	-	8,782.50
47	A.0001534.500.001.033	PLX Emergent Fund -Steam prod	202007	5,057.59	-	-	-	5,057.59
48				2,645,213.30	49,497.59	-	49,497.59	2,595,715.71
49	A.0001545.500.001.024	CHC Emergent Fund -Steam prod	202009	47,643.84	11,058.37	-	11,058.37	36,585.47
50	A.0001545.500.001.019	CHC Emergent Fund -Steam prod	201910	3,852.16	-	-	-	3,852.16
51	A.0001545.500.001.020	CHC Emergent Fund -Steam prod	201912	29,343.36	-	-	-	29,343.36
52	A.0001545.500.001.016	CHC Emergent Fund -Steam prod	201912	55,682.04	17,222.68	-	17,222.68	38,459.36
53	A.0001545.500.001.012	CHC Emergent Fund -Steam prod	201906	0.01	-	-	-	0.01
54	A.0001545.500.001.021	CHC Emergent Fund -Steam prod	202007	89,412.88	12,636.97	-	12,636.97	76,775.91
55	A.0001545.500.001.017	CHC Emergent Fund -Steam prod	202007	38,914.96	357.74	-	357.74	38,557.22
56	A.0001545.500.001.015	CHC Emergent Fund -Steam prod	201907	13,174.77	-	-	-	13,174.77
57	A.0001545.500.001.023	CHC Emergent Fund -Steam prod	202009	188,158.44	3,791.76	-	3,791.76	184,366.68
58	A.0001545.500.001.018	CHC Emergent Fund -Steam prod	202002	34,835.15	-	-	-	34,835.15
59				501,017.61	45,067.52	-	45,067.52	455,950.09
60	A.0001550.244.001.002	HAR0C-Rpl SBAC Controls	201812	103.27	-	-	-	103.27
61				103.27	-	-	-	103.27
62	A.0001550.308.001.001	HAR2C-H2 Upgrd DCS Opr stn	201706	(5,573.90)	-	-	-	(5,573.90)
63				(5,573.90)	-	-	-	(5,573.90)
64	A.0001550.500.001.034	HAR Emergent Fund -Steam prod	201812	(355.04)	-	-	-	(355.04)
65	A.0001550.500.001.060	HAR Emergent Fund -Steam prod	201907	9,722.19	-	-	-	9,722.19
66	A.0001550.500.001.048	HAR Emergent Fund -Steam prod	201904	(38.10)	-	-	-	(38.10)
67	A.0001550.500.001.063	HAR Emergent Fund -Steam prod	201907	5,588.08	-	-	-	5,588.08
68	A.0001550.500.001.097	HAR Emergent Fund -Steam prod	202009	5,252.75	-	-	-	5,252.75
69	A.0001550.500.001.099	HAR Emergent Fund -Steam prod	202007	21,873.74	-	-	-	21,873.74
70	A.0001550.500.001.049	HAR Emergent Fund -Steam prod	201905	388.35	-	-	-	388.35
71	A.0001550.500.001.077	HAR Emergent Fund -Steam prod	202006	216,947.77	21,995.19	-	21,995.19	194,952.58
72	A.0001550.500.001.066	HAR Emergent Fund -Steam prod	201909	15,946.60	-	-	-	15,946.60
73	A.0001550.500.001.111	HAR Emergent Fund -Steam prod	202007	14,903.35	-	-	-	14,903.35
74	A.0001550.500.001.059	HAR Emergent Fund -Steam prod	201912	122,374.87	24,716.10	-	24,716.10	97,658.77
75	A.0001550.500.001.096	HAR Emergent Fund -Steam prod	202009	14,458.67	-	-	-	14,458.67
76	A.0001550.500.001.047	HAR Emergent Fund -Steam prod	201907	5,954.00	-	-	-	5,954.00
77	A.0001550.500.001.044	HAR Emergent Fund -Steam prod	201906	0.06	-	-	-	0.06
78	A.0001550.500.001.082	HAR Emergent Fund -Steam prod	202008	15,965.55	-	-	-	15,965.55
79	A.0001550.500.001.050	HAR Emergent Fund -Steam prod	201906	83.60	-	-	-	83.60
80	A.0001550.500.001.057	HAR Emergent Fund -Steam prod	201906	0.20	-	-	-	0.20
81	A.0001550.500.001.088	HAR Emergent Fund -Steam prod	202008	20,316.41	-	-	-	20,316.41
82	A.0001550.500.001.069	HAR Emergent Fund -Steam prod	201912	78,605.31	-	-	-	78,605.31
83	A.0001550.500.001.091	HAR Emergent Fund -Steam prod	202009	23,415.28	6,455.11	-	6,455.11	16,960.17
84	A.0001550.500.001.100	HAR Emergent Fund -Steam prod	202005	48,057.27	-	-	-	48,057.27
85	A.0001550.500.001.102	HAR Emergent Fund -Steam prod	202007	9,982.77	-	-	-	9,982.77
86	A.0001550.500.001.053	HAR Emergent Fund -Steam prod	201906	0.07	-	-	-	0.07
87	A.0001550.500.001.092	HAR Emergent Fund -Steam prod	202007	13,816.34	-	-	-	13,816.34
88	A.0001550.500.001.089	HAR Emergent Fund -Steam prod	202008	18,936.89	-	-	-	18,936.89
89	A.0001550.500.001.055	HAR Emergent Fund -Steam prod	201911	3,693.69	-	-	-	3,693.69
90	A.0001550.500.001.072	HAR Emergent Fund -Steam prod	201912	8,715.54	-	-	-	8,715.54
91	A.0001550.500.001.065	HAR Emergent Fund -Steam prod	202005	81,254.29	2,805.17	-	2,805.17	78,449.12

Southwestern Public Service Company

Energy Supply Capital Additions
July 1, 2019 through September 30, 2020

Line No.	WBS Level 4 Number		WBS Level 4 Description		Asset Class	Witness	Project Category	WBS Level 2 Number
	(A)	(B)	(C)	(D)				
92	A.0001550.500.001.105	HAR2C-Rpl FWH2 shell Side PRV	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
93	A.0001550.500.001.051	HAR1C-Rpl S. Vacuum Pump Motor	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
94	A.0001550.500.001.062	HAR1C-Rpl ACI Diverter Valve	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
95	A.0001550.500.001.074	HAR0C Rpl Pond 17 Lvl Xntr	Electric Production	Lyal	Environmental Compliance	A.0001550.500		
96	A.0001550.500.001.104	HAR2C-Rpl FWH7 Shell Side PRV	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
97	A.0001550.500.001.103	HAR2C-Rpl FWH8 Shell Side PRV	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
98	A.0001550.500.001.071	HAR2C Rpl Deluge Vlv Cntrl Pal	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
99	A.0001550.500.001.107	HAR3C Rpl No33 Econ Hopper Vlv	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
100	A.0001550.500.001.073	HAR1C Rpl Deluge Vlv Cntrl Pal	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
101	A.0001550.500.001.101	HAR2C-Rpl HP Htr Drains	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
102	A.0001550.500.001.078	HAR3C Rpl Mercury Analyzer	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
103	A.0001550.500.001.114	HAR3C-Rld E Flyash Vac Pump	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
104	A.0001550.500.001.070	HAR2C Rpl O2 Probes E2 and E7	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
105	A.0001550.500.001.067	HAR3C Rpl HRH Oil Trip Vlv	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
106	A.0001550.500.001.090	HAR2C Install Cation Conductivity D	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
107	A.0001550.500.001.095	HAR2C Rpl TDBFP Discharge Pipe	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
108	A.0001550.500.001.046	HAR1C-Rpl E#5 O2 probe	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
109	A.0001550.500.001.068	HAR2C CT 14 Fan Motor Rewind	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
110	A.0001550.500.001.081	HAR1C MBFP Oil Pmp Mtr Rwnd	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
111	A.0001550.500.001.056	HAR3C-S Circ Pmp Mtr Var Xntr	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
112	A.0001550.500.001.113	HAR0C BD Recovery Backfill Mod	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
113	A.0001550.500.001.083	HAR2C Rpl Ext Blk Vlv Actuator	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
114	A.0001550.500.001.064	HAR2C- Rewind Turbine Brg Oil Pump	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
115	A.0001550.500.001.108	HAR1C 3A Htr Drains Control Vlv	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
116	A.0001550.500.001.080	HAR1C Inst Diss O2 Analyzer	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
117	A.0001550.500.001.037	HAR1C-Rpl Generator Breaker FK10	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
118	A.0001550.500.001.093	HAR2C Rpl HP Heater Drain to DA	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
119	A.0001550.500.001.079	HAR2C Rpl GSU 230kV Bushings	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
120	A.0001550.500.001.109	HAR1C Rpl Small Blowdown Throttle V	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
121	A.0001550.500.001.061	HAR0C-Rebuild Inj Well Pmp	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
122	A.0001550.500.001.086	HAR2C Inst MBFP Wtr in Oil	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
123	A.0001550.500.001.075	HAR1C Rpl E6 O2 Probe	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
124	A.0001550.500.001.084	HAR2C Rpl Mercury Analyzer	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
125	A.0001550.500.001.076	HAR2C Rpl E6 O2 Probe	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
126	A.0001550.500.001.112	HAR1C Rpl Acid Tank Lvl Xntr	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
127	A.0001550.500.001.106	HAR2C Blowdown Block and Throttle V	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.500		
128						A.0001550.500 Total		
129	A.0001555.060.001.011	TOL0C-Rpl Well #64 Pump	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001555.060		
130						A.0001555.060 Total		
131	A.0001555.088.001.002	TOL1C-Rpl Baghouse Bags 2018	Electric Production	Lyal	Environmental Compliance	A.0001555.088		
132						A.0001555.088 Total		
133	A.0001555.226.001.002	TOL2C-Rpl Mill E Gentrif & Jour	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001555.226		
134						A.0001555.226 Total		
135	A.0001555.254.001.002	TOL1C-Rpl SSC Chain 2018	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001555.254		
136						A.0001555.254 Total		
137	A.0001555.296.001.002	TOL2C-Rpl Main Pwr Transformer	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001555.296		
138						A.0001555.296 Total		

Southwestern Public Service Company

Energy Supply Capital Additions
July 1, 2019 through September 30, 2020

	(A)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
Line No.	WBS Level 4 Number	WBS Level 2 Description	In-Service Date	Additions (Jul 2019 Sep 2020)	XES Charges (Included in Column I)	Other Affiliate Charges (Included in Column I)	Total Affiliate Charges (Included in Column I)	Total Native Charges (Columns I less L) Within the Total Additions to Plant-in-Service Shown in Column (I)
92	A.0001550.500.001.105	HAR Emergent Fund- Steam prod	202007	10,805.73	-	-	-	10,805.73
93	A.0001550.500.001.051	HAR Emergent Fund- Steam prod	201906	0.01	-	-	-	0.01
94	A.0001550.500.001.062	HAR Emergent Fund- Steam prod	201909	6,694.30	-	-	-	6,694.30
95	A.0001550.500.001.074	HAR Emergent Fund- Steam prod	201912	6,743.27	-	-	-	6,743.27
96	A.0001550.500.001.104	HAR Emergent Fund- Steam prod	202007	14,048.03	-	-	-	14,048.03
97	A.0001550.500.001.103	HAR Emergent Fund- Steam prod	202007	17,159.52	-	-	-	17,159.52
98	A.0001550.500.001.071	HAR Emergent Fund- Steam prod	201912	8,645.89	-	-	-	8,645.89
99	A.0001550.500.001.107	HAR Emergent Fund- Steam prod	202008	8,473.61	-	-	-	8,473.61
100	A.0001550.500.001.073	HAR Emergent Fund- Steam prod	201912	8,645.89	-	-	-	8,645.89
101	A.0001550.500.001.101	HAR Emergent Fund- Steam prod	202007	15,255.21	-	-	-	15,255.21
102	A.0001550.500.001.078	HAR Emergent Fund- Steam prod	202003	74,868.59	18,257.46	-	18,257.46	56,611.13
103	A.0001550.500.001.114	HAR Emergent Fund- Steam prod	202009	58,520.12	-	-	-	58,520.12
104	A.0001550.500.001.070	HAR Emergent Fund- Steam prod	202002	24,656.21	-	-	-	24,656.21
105	A.0001550.500.001.067	HAR Emergent Fund- Steam prod	201909	41,898.47	-	-	-	41,898.47
106	A.0001550.500.001.090	HAR Emergent Fund- Steam prod	202008	19,338.37	-	-	-	19,338.37
107	A.0001550.500.001.095	HAR Emergent Fund- Steam prod	202004	44,774.72	-	-	-	44,774.72
108	A.0001550.500.001.046	HAR Emergent Fund- Steam prod	201906	0.01	-	-	-	0.01
109	A.0001550.500.001.068	HAR Emergent Fund- Steam prod	201912	4,244.48	-	-	-	4,244.48
110	A.0001550.500.001.081	HAR Emergent Fund- Steam prod	202004	4,572.77	-	-	-	4,572.77
111	A.0001550.500.001.056	HAR Emergent Fund- Steam prod	201911	3,680.69	-	-	-	3,680.69
112	A.0001550.500.001.113	HAR Emergent Fund- Steam prod	202009	15,391.57	-	-	-	15,391.57
113	A.0001550.500.001.083	HAR Emergent Fund- Steam prod	202004	21,297.63	-	-	-	21,297.63
114	A.0001550.500.001.064	HAR Emergent Fund- Steam prod	201908	6,233.03	-	-	-	6,233.03
115	A.0001550.500.001.108	HAR Emergent Fund- Steam prod	202009	12,272.30	-	-	-	12,272.30
116	A.0001550.500.001.080	HAR Emergent Fund- Steam prod	202008	15,175.98	377.00	-	377.00	14,798.98
117	A.0001550.500.001.037	HAR Emergent Fund- Steam prod	201905	(31,339.35)	5,678.58	-	5,678.58	(37,017.93)
118	A.0001550.500.001.093	HAR Emergent Fund- Steam prod	202009	67,863.57	5,093.61	-	5,093.61	62,769.96
119	A.0001550.500.001.079	HAR Emergent Fund- Steam prod	202007	217,597.10	12,279.90	-	12,279.90	205,317.20
120	A.0001550.500.001.109	HAR Emergent Fund- Steam prod	202008	4,573.02	-	-	-	4,573.02
121	A.0001550.500.001.061	HAR Emergent Fund- Steam prod	201907	16,442.22	-	-	-	16,442.22
122	A.0001550.500.001.086	HAR Emergent Fund- Steam prod	202009	23,285.33	10,502.12	-	10,502.12	12,783.21
123	A.0001550.500.001.075	HAR Emergent Fund- Steam prod	202004	11,344.09	-	-	-	11,344.09
124	A.0001550.500.001.084	HAR Emergent Fund- Steam prod	202007	76,431.20	18,486.67	-	18,486.67	57,944.53
125	A.0001550.500.001.076	HAR Emergent Fund- Steam prod	202003	12,879.23	-	-	-	12,879.23
126	A.0001550.500.001.112	HAR Emergent Fund- Steam prod	202008	9,683.80	-	-	-	9,683.80
127	A.0001550.500.001.106	HAR Emergent Fund- Steam prod	202008	7,729.13	-	-	-	7,729.13
128				1,615,746.24	126,646.91	-	126,646.91	1,489,099.33
129	A.0001555.060.001.011	TOL-OC-Rpl Water Well Pmp 2018	202006	460.56	-	-	-	460.56
130				460.56	-	-	-	460.56
131	A.0001555.088.001.002	TOL-IC-Rpl Baghouse Bags 2018	201803	27,097.97	-	-	-	27,097.97
132				27,097.97	-	-	-	27,097.97
133	A.0001555.226.001.002	TOL-2C-Rpl Mill E Gearbx & Jour	201812	764,420.17	3,837.24	-	3,837.24	760,582.93
134				764,420.17	3,837.24	-	3,837.24	760,582.93
135	A.0001555.254.001.002	TOL-IC-Rpl SSC Chain 2018	201811	2,109.63	-	-	-	2,109.63
136				2,109.63	-	-	-	2,109.63
137	A.0001555.296.001.002	TOL-2C-Rpl Main Pwr Transformer	201806	697,008.57	2,994.63	-	2,994.63	694,013.94
138				697,008.57	2,994.63	-	2,994.63	694,013.94

Southwestern Public Service Company

Energy Supply Capital Additions
July 1, 2019 through September 30, 2020

(A)	(B)	(C)	(D)	(E)	(F)
Line No.	WBS Level 4 Number	WBS Level 4 Description	Asset Class	Project Category	WBS Level 2 Number
139	A.0001555.363.001.002	TOLIC-Rpl rev gas expansion joints	Electric Production	Reliability & Performance Enhancement	A.0001555.363
140					A.0001555.363 Total
141	A.0001555.500.001.023	TOLIC-Rpl Mill Main Vrt Shaft	Electric Production	Reliability & Performance Enhancement	A.0001555.500
142	A.0001555.500.001.040	TOLIC-A Rpl Vac Pump	Electric Production	Reliability & Performance Enhancement	A.0001555.500
143	A.0001555.500.001.054	TOLIC-Rpl Fire Pump Recirc Valve	Electric Production	Reliability & Performance Enhancement	A.0001555.500
144	A.0001555.500.001.039	TOLIC-Intermittent Blowdown Vlv	Electric Production	Reliability & Performance Enhancement	A.0001555.500
145	A.0001555.500.001.052	TOLIC Rpl SUFW Vlv Internals	Electric Production	Reliability & Performance Enhancement	A.0001555.500
146	A.0001555.500.001.048	TOLIC Rpl E Rev Fan Damper	Electric Production	Reliability & Performance Enhancement	A.0001555.500
147	A.0001555.500.001.046	TOLIC Rpl E Blr Treatment Supply Pm	Electric Production	Reliability & Performance Enhancement	A.0001555.500
148	A.0001555.500.001.066	TOLIC Rpl High Pressure Block Valve	Electric Production	Reliability & Performance Enhancement	A.0001555.500
149	A.0001555.500.001.041	TOLIC-Rpl Main Gas Valve	Electric Production	Reliability & Performance Enhancement	A.0001555.500
150	A.0001555.500.001.042	TOLIC-Rpl Center CT MU Pump	Electric Production	Reliability & Performance Enhancement	A.0001555.500
151	A.0001555.500.001.047	TOLIC Rpl W Blr Treatment Supply Pm	Electric Production	Reliability & Performance Enhancement	A.0001555.500
152	A.0001555.500.001.057	TOLIC Rpl No3 Ext Valve Actuator	Electric Production	Reliability & Performance Enhancement	A.0001555.500
153	A.0001555.500.001.051	TOLIC Rpl Ash Silo Unloader Chute	Electric Production	Reliability & Performance Enhancement	A.0001555.500
154	A.0001555.500.001.044	TOLIC-Rpl Burner Til Actuator	Electric Production	Reliability & Performance Enhancement	A.0001555.500
155	A.0001555.500.001.062	TOLIC Rpl CT Cell 23 Motor	Electric Production	Reliability & Performance Enhancement	A.0001555.500
156	A.0001555.500.001.037	TOLIC-Rpl South Fire Pump	Electric Production	Reliability & Performance Enhancement	A.0001555.500
157	A.0001555.500.001.038	TOLIC-Rpl Mill C Shaft	Electric Production	Reliability & Performance Enhancement	A.0001555.500
158	A.0001555.500.001.063	TOLIC CT Cell 17 Motor	Electric Production	Reliability & Performance Enhancement	A.0001555.500
159	A.0001555.500.001.043	TOLIC-Gas Line Replacement	Electric Production	Reliability & Performance Enhancement	A.0001555.500
160	A.0001555.500.001.053	TOLIC-Rpl Aux Boiler Feed Pump	Electric Production	Reliability & Performance Enhancement	A.0001555.500
161	A.0001555.500.001.036	TOLIC-Rpl Baghouse Vent Fan	Electric Production	Reliability & Performance Enhancement	A.0001555.500
162	A.0001555.500.001.055	TOLIC Rpl Drum Vent Vlv	Electric Production	Reliability & Performance Enhancement	A.0001555.500
163	A.0001555.500.001.056	TOLIC Rpl Cut Ax Circ Svc Vlv	Electric Production	Reliability & Performance Enhancement	A.0001555.500
164	A.0001555.500.001.059	TOLIC Rpl SH Link Vents	Electric Production	Reliability & Performance Enhancement	A.0001555.500
165					A.0001555.500 Total
166	A.0001555.597.001.002	TOLIC-Rpl Coal Pipe & Elbows	Electric Production	Reliability & Performance Enhancement	A.0001555.597
167					A.0001555.597 Total
168	A.0001560.500.001.019	NICOC-Rpl Aux Boiler Feed Pump	Electric Production	Reliability & Performance Enhancement	A.0001560.500
169	A.0001560.500.001.027	NICIC-Rpl Econ Check Valves	Electric Production	Reliability & Performance Enhancement	A.0001560.500
170	A.0001560.500.001.041	NICOC- LRW Line Repair	Electric Production	Reliability & Performance Enhancement	A.0001560.500
171	A.0001560.500.001.044	NIC2C Rpl NE Air Duct Expansion Joi	Electric Production	Reliability & Performance Enhancement	A.0001560.500
172	A.0001560.500.001.039	NICOC-Rpl pond 3 Pump	Electric Production	Reliability & Performance Enhancement	A.0001560.500
173	A.0001560.500.001.042	NICIC- CT Rewire 9S, 9N, 10N	Electric Production	Reliability & Performance Enhancement	A.0001560.500
174	A.0001560.500.001.026	NICIC-Rpl MS Drain Piping	Electric Production	Reliability & Performance Enhancement	A.0001560.500
175	A.0001560.500.001.047	NICIC Rpl Ht #4 Ext Exp Jt	Electric Production	Reliability & Performance Enhancement	A.0001560.500
176	A.0001560.500.001.028	NIC2C-Rpl CT Cell 7S Fan Mech	Electric Production	Reliability & Performance Enhancement	A.0001560.500
177	A.0001560.500.001.057	NIC2C Rpl CT Makeup Valve	Electric Production	Reliability & Performance Enhancement	A.0001560.500
178	A.0001560.500.001.035	NIC2C Rpl De-SH Vent Vlv	Electric Production	Reliability & Performance Enhancement	A.0001560.500
179	A.0001560.500.001.058	NICIC-Rpl Steam Drum Vent Valves	Electric Production	Reliability & Performance Enhancement	A.0001560.500
180	A.0001560.500.001.038	NICIC-Rpl S BFP Recirc Valve	Electric Production	Reliability & Performance Enhancement	A.0001560.500
181	A.0001560.500.001.046	NICIC Rpl L4 Turb Blades	Electric Production	Reliability & Performance Enhancement	A.0001560.500
182	A.0001560.500.001.025	NICIC-Rpl Station Battery N1&N2	Electric Production	Reliability & Performance Enhancement	A.0001560.500
183	A.0001560.500.001.052	NIC3C Install Stairs to APH	Electric Production	Reliability & Performance Enhancement	A.0001560.500
184	A.0001560.500.001.032	NIC2C-Install RH Spray Flow Meter	Electric Production	Reliability & Performance Enhancement	A.0001560.500
185	A.0001560.500.001.036	NICIC-Rpl MS Vent & Dm Vlv	Electric Production	Reliability & Performance Enhancement	A.0001560.500

Southwestern Public Service Company

Energy Supply Capital Additions
July 1, 2019 through September 30, 2020

(A)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	
Line No.	WBS Level 4 Number	WBS Level 2 Description	In-Service Date	Additions (Jul 2019 Sep 2020)	XES Charges (Included in Column I)	Other Affiliate Charges (Included in Column I)	Total Affiliate Charges (Included in Column I)	Total Native Charges (Columns I less L) Within the Total Additions to Plant-in-Service Shown in Column (I)
139	A.0001555.363.000.002	TOL-IC- Rpl rev gas expansion joints	201811	2,225.54	-	-	-	2,225.54
140				2,225.54	-	-	-	2,225.54
141	A.0001555.500.001.023	TOL Emergent Fund -Steam prod	201812	29,163.42	-	-	-	29,163.42
142	A.0001555.500.001.040	TOL Emergent Fund -Steam prod	201906	(1,615.10)	-	-	-	(1,615.10)
143	A.0001555.500.001.054	TOL Emergent Fund -Steam prod	202006	4,642.92	-	-	-	4,642.92
144	A.0001555.500.001.039	TOL Emergent Fund -Steam prod	201911	21,163.25	-	-	-	21,163.25
145	A.0001555.500.001.052	TOL Emergent Fund -Steam prod	202007	19,327.65	-	-	-	19,327.65
146	A.0001555.500.001.048	TOL Emergent Fund -Steam prod	201911	32,688.45	-	-	-	32,688.45
147	A.0001555.500.001.046	TOL Emergent Fund -Steam prod	201910	9,154.31	-	-	-	9,154.31
148	A.0001555.500.001.066	TOL Emergent Fund -Steam prod	202008	7,519.85	-	-	-	7,519.85
149	A.0001555.500.001.041	TOL Emergent Fund -Steam prod	201905	221.73	-	-	-	221.73
150	A.0001555.500.001.042	TOL Emergent Fund -Steam prod	201908	55,163.11	-	-	-	55,163.11
151	A.0001555.500.001.047	TOL Emergent Fund -Steam prod	201911	8,012.14	-	-	-	8,012.14
152	A.0001555.500.001.057	TOL Emergent Fund -Steam prod	202007	12,250.36	-	-	-	12,250.36
153	A.0001555.500.001.051	TOL Emergent Fund -Steam prod	202005	16,961.75	-	-	-	16,961.75
154	A.0001555.500.001.044	TOL Emergent Fund -Steam prod	201910	10,646.52	-	-	-	10,646.52
155	A.0001555.500.001.062	TOL Emergent Fund -Steam prod	202008	2,085.72	-	-	-	2,085.72
156	A.0001555.500.001.037	TOL Emergent Fund -Steam prod	201907	48,683.24	-	-	-	48,683.24
157	A.0001555.500.001.038	TOL Emergent Fund -Steam prod	201911	722,886.96	12,347.64	-	12,347.64	710,539.32
158	A.0001555.500.001.063	TOL Emergent Fund -Steam prod	202008	10,834.71	-	-	-	10,834.71
159	A.0001555.500.001.043	TOL Emergent Fund -Steam prod	201910	32,958.72	-	-	-	32,958.72
160	A.0001555.500.001.053	TOL Emergent Fund -Steam prod	202007	2,460.09	-	-	-	2,460.09
161	A.0001555.500.001.036	TOL Emergent Fund -Steam prod	201906	2,874.03	-	-	-	2,874.03
162	A.0001555.500.001.055	TOL Emergent Fund -Steam prod	202007	33,909.45	-	-	-	33,909.45
163	A.0001555.500.001.056	TOL Emergent Fund -Steam prod	202007	12,759.20	-	-	-	12,759.20
164	A.0001555.500.001.059	TOL Emergent Fund -Steam prod	202007	8,695.94	-	-	-	8,695.94
165				1,103,448.42	12,347.64	-	12,347.64	1,091,100.78
166	A.0001555.597.000.002	TOL-IC-Rpl Coal Pipe & Elbows	201811	95,301.65	-	-	-	95,301.65
167				95,301.65	-	-	-	95,301.65
168	A.0001560.500.001.019	NIC Emergent Fund -Steam prod	201901	(9.01)	-	-	-	(9.01)
169	A.0001560.500.001.027	NIC Emergent Fund -Steam prod	201912	66,250.52	-	-	-	66,250.52
170	A.0001560.500.001.041	NIC Emergent Fund -Steam prod	201906	1,796.73	-	-	-	1,796.73
171	A.0001560.500.001.044	NIC Emergent Fund -Steam prod	201912	55,520.62	-	-	-	55,520.62
172	A.0001560.500.001.039	NIC Emergent Fund -Steam prod	201907	23,290.16	-	-	-	23,290.16
173	A.0001560.500.001.042	NIC Emergent Fund -Steam prod	201910	48,231.45	-	-	-	48,231.45
174	A.0001560.500.001.026	NIC Emergent Fund -Steam prod	201912	83,682.24	15,017.27	-	15,017.27	68,664.97
175	A.0001560.500.001.047	NIC Emergent Fund -Steam prod	202001	41,046.27	-	-	-	41,046.27
176	A.0001560.500.001.028	NIC Emergent Fund -Steam prod	201906	(33.17)	30.32	-	30.32	(63.49)
177	A.0001560.500.001.057	NIC Emergent Fund -Steam prod	202006	11,777.85	-	-	-	11,777.85
178	A.0001560.500.001.035	NIC Emergent Fund -Steam prod	201906	3,758.69	-	-	-	3,758.69
179	A.0001560.500.001.058	NIC Emergent Fund -Steam prod	202006	7,488.33	-	-	-	7,488.33
180	A.0001560.500.001.038	NIC Emergent Fund -Steam prod	201912	64,954.30	-	-	-	64,954.30
181	A.0001560.500.001.046	NIC Emergent Fund -Steam prod	202004	274,215.62	-	-	-	274,215.62
182	A.0001560.500.001.025	NIC Emergent Fund -Steam prod	201904	(774.37)	-	-	-	(774.37)
183	A.0001560.500.001.052	NIC Emergent Fund -Steam prod	202007	35,650.82	11,383.83	-	11,383.83	24,266.99
184	A.0001560.500.001.032	NIC Emergent Fund -Steam prod	201906	5,620.83	-	-	-	5,620.83
185	A.0001560.500.001.036	NIC Emergent Fund -Steam prod	201912	27,245.47	-	-	-	27,245.47

Southwestern Public Service Company

Energy Supply Capital Additions
July 1, 2019 through September 30, 2020

(A)		(B)	(C)	(D)	(E)	(F)
Line No.	WBS Level 4 Number	WBS Level 4 Description	Asset Class	Witness	Project Category	WBS Level 2 Number
186	A.0001560.500.001.033	NIC2C-Rpl CT Riser Vlvs	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001560.500
187	A.0001560.500.001.048	NIC1C Rpl Gen Diff Relays	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001560.500
188	A.0001560.500.001.040	NIC1C-Rpl Gov Vlv Rexa Drive	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001560.500
189	A.0001560.500.001.053	NIC2C Rpl Cond Out Exp Joints	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001560.500
190	A.0001560.500.001.049	NIC3C S Circ Wtr Pmp Mtr Rwnd	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001560.500
191	A.0001560.500.001.037	NIC3C-Rpl Gas Valves	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001560.500
192	A.0001560.500.001.051	NIC0C Rpl Sprinkler Pivot S7	Electric Production	Lyal	Environmental Compliance	A.0001560.500
193	A.0001560.500.001.043	NIC2C Rpl IHS Air Comp	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001560.500
194	A.0001560.500.001.029	NIC1C-Rpl CT Riser Valves	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001560.500
195	A.0001560.500.001.034	NIC2C-Rpl CT Cell 11S Fan Mech	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001560.500
196	A.0001560.500.001.031	NIC1C-Install RH Spray Flow Meter	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001560.500
197						A.0001560.500 Total
198	A.0001586.500.001.020	JON2C-Rpl Aux Blr Wtr Pmp	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.500
199	A.0001586.500.001.028	JON0C-Inst In-Line BoostPmp	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.500
200	A.0001586.500.001.017	JON2C-Rpl Reheat Spry Vlv Asmb	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.500
201	A.0001586.500.001.031	JON1C Rpl Cell 7 Gearbox	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.500
202	A.0001586.500.001.042	JON01 HT SH Vent Valves	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.500
203	A.0001586.500.001.030	JON0C PwrTex OneOK Gas Chromatograp	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.500
204	A.0001586.500.001.037	JON1C Rpl Boiler Blowdown Throttle	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.500
205	A.0001586.500.001.036	JON1C Rpl Cooling Tower Lvl Transmi	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.500
206	A.0001586.500.001.027	JON2C-FWH Separators	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.500
207	A.0001586.500.001.018	JON2C-Rwd Normal Src Xfmr	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.500
208	A.0001586.500.001.029	JON0C RR Gas Chromatograph	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.500
209	A.0001586.500.001.019	JON0C-Rpl WW Pond Pump 3	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.500
210	A.0001586.500.001.023	JON0C-Rpl Potable Wtr Line	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.500
211	A.0001586.500.001.039	JON0C Rpl Waster Water Pond Motor	Electric Production	Lyal	Environmental Compliance	A.0001586.500
212	A.0001586.500.001.045	JONO W Evap RO VFD	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.500
213	A.0001586.500.001.034	JON0C - RO A 1st Pass Pump	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.500
214	A.0001586.500.001.035	JON1C Rpl Gland Stm Seal & Hood Spr	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.500
215						A.0001586.500 Total
216	A.0001555.043.001.002	TOL1C-Rpl Burner Assemblies	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001555.043
217						A.0001555.043 Total
218	A.0001550.462.001.002	HAR0C-Remove UG Fuel Tanks	Electric Production	Lyal	Environmental Compliance	A.0001550.462
219						A.0001550.462 Total
220	A.0001560.109.001.001	BUDG NIC1C-Rpl CT Suction Vault Roo	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001560.109
221						A.0001560.109 Total
222	A.0001586.287.001.002	JON2C-Rpl CT Makeup Piping	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.287
223						A.0001586.287 Total
224	A.0001555.212.001.010	TOL0C Rpl WW Pmp 2019 Well 53	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001555.212
225	A.0001555.212.001.006	TOL0C-Rpl WW Pmp 2019 Well 50	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001555.212
226	A.0001555.212.001.004	TOL0C-Rpl WW Pmp 2019 Well 80	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001555.212
227	A.0001555.212.001.003	TOL0C-Rpl WW Pmp 2019 Well 42	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001555.212
228	A.0001555.212.001.008	TOL0C-Rpl WW Pmp 2019 Well 74	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001555.212
229	A.0001555.212.001.005	TOL0C-Rpl WW Pmp 2019 Well 40	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001555.212
230	A.0001555.212.001.009	TOL0C Rpl WW Pmp 2019 Well 8	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001555.212
231	A.0001555.212.001.007	TOL0C-Rpl WW Pmp 2019 Well 73	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001555.212
232						A.0001555.212 Total

Southwestern Public Service Company

Energy Supply Capital Additions
July 1, 2019 through September 30, 2020

	(A)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
Line No.	WBS Level 4 Number	WBS Level 2 Description	In-Service Date	Additions (Jul 2019 Sep 2020)	XES Charges (Included in Column I)	Other Affiliate Charges (Included in Column I)	Total Affiliate Charges (Included in Column I)	Total Native Charges (Columns I less L) Within the Total Additions to Plant-in-Service Shown in Column (I)
186	A.0001560.500.001.033	NIC Emergent Fund -Steam prod	201906	2,809.98	-	-	-	2,809.98
187	A.0001560.500.001.048	NIC Emergent Fund -Steam prod	202002	31,502.42	9,713.26	-	9,713.26	21,789.16
188	A.0001560.500.001.040	NIC Emergent Fund -Steam prod	202007	104,485.29	22,582.04	-	22,582.04	81,903.25
189	A.0001560.500.001.053	NIC Emergent Fund -Steam prod	202006	25,590.39	-	-	-	25,590.39
190	A.0001560.500.001.049	NIC Emergent Fund -Steam prod	202004	119,049.39	-	-	-	119,049.39
191	A.0001560.500.001.037	NIC Emergent Fund -Steam prod	201911	61,627.51	-	-	-	61,627.51
192	A.0001560.500.001.051	NIC Emergent Fund -Steam prod	202007	207,605.47	6,973.54	-	6,973.54	200,631.93
193	A.0001560.500.001.043	NIC Emergent Fund -Steam prod	202005	126,902.06	39,870.72	-	39,870.72	87,031.34
194	A.0001560.500.001.029	NIC Emergent Fund -Steam prod	201912	45,118.96	-	-	-	45,118.96
195	A.0001560.500.001.034	NIC Emergent Fund -Steam prod	201906	338.59	29.90	-	29.90	308.69
196	A.0001560.500.001.031	NIC Emergent Fund -Steam prod	201906	8,328.47	-	-	-	8,328.47
197				1,483,071.88	105,600.88	-	105,600.88	1,377,471.00
198	A.0001586.500.001.020	JON Emergent Fund -Steam prod	201812	(3,863.78)	-	-	-	(3,863.78)
199	A.0001586.500.001.028	JON Emergent Fund -Steam prod	201912	291,721.69	29,391.99	-	29,391.99	262,329.70
200	A.0001586.500.001.017	JON Emergent Fund -Steam prod	201905	(0.01)	-	-	-	(0.01)
201	A.0001586.500.001.031	JON Emergent Fund -Steam prod	202002	36,089.54	-	-	-	36,089.54
202	A.0001586.500.001.042	JON Emergent Fund -Steam prod	202009	1,260.37	-	-	-	1,260.37
203	A.0001586.500.001.030	JON Emergent Fund -Steam prod	201912	61,685.43	-	-	-	61,685.43
204	A.0001586.500.001.037	JON Emergent Fund -Steam prod	202009	3,034.66	-	-	-	3,034.66
205	A.0001586.500.001.036	JON Emergent Fund -Steam prod	202009	6,521.91	-	-	-	6,521.91
206	A.0001586.500.001.027	JON Emergent Fund -Steam prod	201906	(1,036.10)	-	-	-	(1,036.10)
207	A.0001586.500.001.018	JON Emergent Fund -Steam prod	201906	3,725.09	33.12	-	33.12	3,691.97
208	A.0001586.500.001.029	JON Emergent Fund -Steam prod	201912	56,512.77	-	-	-	56,512.77
209	A.0001586.500.001.019	JON Emergent Fund -Steam prod	201906	1,739.34	-	-	-	1,739.34
210	A.0001586.500.001.023	JON Emergent Fund -Steam prod	201906	3,277.77	2,014.38	-	2,014.38	1,263.39
211	A.0001586.500.001.039	JON Emergent Fund -Steam prod	202009	15,362.48	-	-	-	15,362.48
212	A.0001586.500.001.045	JON Emergent Fund -Steam prod	202009	3,933.08	-	-	-	3,933.08
213	A.0001586.500.001.034	JON Emergent Fund -Steam prod	202009	14,721.57	-	-	-	14,721.57
214	A.0001586.500.001.035	JON Emergent Fund -Steam prod	202009	7,362.50	-	-	-	7,362.50
215				502,048.31	31,439.49	-	31,439.49	470,608.82
216	A.0001555.043.001.002	TOLIC-Rpl Burner Assemblies	201811	59,412.80	-	-	-	59,412.80
217				59,412.80	-	-	-	59,412.80
218	A.0001550.462.001.002	HAR0C-Remove UG Fuel Tanks	201804	(185.66)	-	-	-	(185.66)
219				(185.66)	-	-	-	(185.66)
220	A.0001560.109.001.001	NIC1C-Rpl CT Suction Vault Roof	201908	(154.07)	-	-	-	(154.07)
221				(154.07)	-	-	-	(154.07)
222	A.0001586.287.001.002	JON2C-Rpl CT Makeup Piping	201903	(0.01)	-	-	-	(0.01)
223				(0.01)	-	-	-	(0.01)
224	A.0001555.212.001.010	TOL0C-Rpl Water Well Pmp 2019	201912	14,976.08	-	-	-	14,976.08
225	A.0001555.212.001.006	TOL0C-Rpl Water Well Pmp 2019	201909	22,202.20	-	-	-	22,202.20
226	A.0001555.212.001.004	TOL0C-Rpl Water Well Pmp 2019	201909	12,796.85	-	-	-	12,796.85
227	A.0001555.212.001.003	TOL0C-Rpl Water Well Pmp 2019	201906	0.01	-	-	-	0.01
228	A.0001555.212.001.008	TOL0C-Rpl Water Well Pmp 2019	201909	7,404.09	-	-	-	7,404.09
229	A.0001555.212.001.005	TOL0C-Rpl Water Well Pmp 2019	201909	18,275.33	-	-	-	18,275.33
230	A.0001555.212.001.009	TOL0C-Rpl Water Well Pmp 2019	201912	17,076.73	-	-	-	17,076.73
231	A.0001555.212.001.007	TOL0C-Rpl Water Well Pmp 2019	201909	6,877.03	-	-	-	6,877.03
232				99,608.32	-	-	-	99,608.32

Southwestern Public Service Company

Energy Supply Capital Additions
July 1, 2019 through September 30, 2020

(A)		(B)	(C)	(D)	(E)	(F)
Line No.	WBS Level 4 Number	WBS Level 4 Description	Asset Class	Witness	Project Category	WBS Level 2 Number
233	A.0001545.1.12.001.002	CHC4C-UPG CEMSSs Foxboro Sys	Electric Production	Lyal	Environmental Compliance	A.0001545.112
234						A.0001545.112 Total
235	A.0001545.1.26.001.002	CHC3C-Arc flash relay 480 buss	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001545.126
236						A.0001545.126 Total
237	A.0001529.066.001.002	MAD3C-Rpl M3 Fire Suppression	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001529.066
238						A.0001529.066 Total
239	A.0001577.001.001.002	SPS Wind -Hale County	Electric Production	Lyal	New Generation	A.0001577.001
240						A.0001577.001 Total
241	A.0001545.1.11.001.002	CHC4C Rpl Station Batteries	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001545.111
242						A.0001545.111 Total
243	A.0001545.1.23.001.002	CHC3C-Rewind Generator	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001545.123
244						A.0001545.123 Total
245	A.0001529.082.001.002	MAD3C-Rpl U940 Gen Breaker	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001529.082
246						A.0001529.082 Total
247	A.0001545.1.25.001.002	CHC4C-Replace Battery Charger	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001545.125
248						A.0001545.125 Total
249	A.0001545.1.24.001.002	CHC3C-Rpl Compressor	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001545.124
250						A.0001545.124 Total
251	A.0001545.1.09.001.002	CHC3C-Rpl Station Battery	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001545.109
252						A.0001545.109 Total
253	A.0001545.1.27.001.002	CHC4C-Arc flash relay 480 buss	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001545.127
254						A.0001545.127 Total
255	A.0001545.1.29.001.002	CHC4C-Rewind Generator	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001545.129
256						A.0001545.129 Total
257	A.0001586.308.001.002	JON4C-Exhaust Stack Silencer Baffle	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.308
258						A.0001586.308 Total
259	A.0001563.015.001.003	Sagamore-OM Building Land	Electric Production	Lyal	New Generation	A.0001563.015
260						A.0001563.015 Total
261	A.0001550.235.001.002	HAR2C-H2 Rebag Partial 2020	Electric Production	Lyal	Environmental Compliance	A.0001550.235
262						A.0001550.235 Total
263	A.0001560.1.25.001.002	NIC3C-Rpl Downcomer Blowdown Vlv	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001560.125
264						A.0001560.125 Total
265	A.0001534.1.97.001.002	PLX4C-Rpl CT north stairway	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001534.197
266						A.0001534.197 Total
267	A.0001550.251.001.002	HAR1C-Rpl CT Mechanicals Ph3	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.251
268						A.0001550.251 Total
269	A.0001545.272.001.002	CHC2C-Rpl StartUp XFMR CA-4 Diff Rly	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001545.272
270						A.0001545.272 Total
271	A.0001545.2.62.001.002	CHC2C-Arc flash relay, 480 buss E	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001545.262
272						A.0001545.262 Total
273	A.0001534.1.87.001.002	PLX4C-Generator Rewedge	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001534.187
274						A.0001534.187 Total
275	A.0001560.1.33.001.003	NIC3C Rpl FWH Level Transmitters	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001560.133
276						A.0001560.133 Total
277	A.0001534.051.001.002	PLX4C-Rpl Economizer Header	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001534.051
278						A.0001534.051 Total
279	A.0001560.1.24.001.002	NIC3C-Rpl Condenser Inlet Circ Pipe	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001560.124

Southwestern Public Service Company

Energy Supply Capital Additions
July 1, 2019 through September 30, 2020

Line No.	WBS Level 4 Number	WBS Level 2 Description	In-Service Date	Additions (Jul 2019 Sep 2020)	XES Charges (Included in Column I)	Other Affiliate Charges (Included in Column I)	Total Affiliate Charges (Included in Column I)	Total Native Charges (Columns I less L) Within the Total Additions to Plant-in-Service Shown in Column (I)
233	A.0001545.112.001.002	CHC4C-Upg CEMSS Foxboro Sys	202008	250,838.91	41,000.28	-	41,000.28	209,838.63
234				250,838.91	41,000.28	-	41,000.28	209,838.63
235	A.0001545.126.001.002	CHC3C-Arc flash relay 480 buss	202003	50,074.43	11,861.16	-	11,861.16	38,213.27
236				50,074.43	11,861.16	-	11,861.16	38,213.27
237	A.0001529.066.001.002	MAD3C-Rpl M3 Fire Suppression-21344	202006	647.81	(25,006.51)	-	(25,006.51)	25,654.32
238				647.81	(25,006.51)	-	(25,006.51)	25,654.32
239	A.0001577.001.001.002	SPS Wind -Hale County	201906	3,453,892.16	533,922.46	-	533,922.46	2,919,969.70
240				3,453,892.16	533,922.46	-	533,922.46	2,919,969.70
241	A.0001545.111.001.002	CHC4C-Rpl Station Batt	202008	73,456.00	22,538.06	-	22,538.06	50,917.94
242				73,456.00	22,538.06	-	22,538.06	50,917.94
243	A.0001545.123.001.002	CHC3C-Rewind Generator	201905	559,223.76	286.52	-	286.52	558,937.24
244				559,223.76	286.52	-	286.52	558,937.24
245	A.0001529.082.001.002	MAD3C-Rpl U940 Gen Breaker	201911	316,709.26	68,763.68	-	68,763.68	247,945.58
246				316,709.26	68,763.68	-	68,763.68	247,945.58
247	A.0001545.125.001.002	CHC4C-Replace Battery Charger	201906	2,858.44	1,640.79	-	1,640.79	1,217.65
248				2,858.44	1,640.79	-	1,640.79	1,217.65
249	A.0001545.124.001.002	CHC3C-Rpl Compressor	201905	3,878,457.42	1,711.01	-	1,711.01	3,876,746.41
250				3,878,457.42	1,711.01	-	1,711.01	3,876,746.41
251	A.0001545.109.001.002	CHC3C-Rpl Station Battery	202005	66,171.68	19,232.86	-	19,232.86	46,938.82
252				66,171.68	19,232.86	-	19,232.86	46,938.82
253	A.0001545.127.001.002	CHC4C-Arc flash relay 480 buss	202003	55,740.56	10,476.60	-	10,476.60	45,263.96
254				55,740.56	10,476.60	-	10,476.60	45,263.96
255	A.0001545.129.001.002	CHC4C-Rewind Generator	202007	8,151,541.61	96,125.29	92.64	96,217.93	8,055,323.68
256				8,151,541.61	96,125.29	92.64	96,217.93	8,055,323.68
257	A.0001586.308.001.002	JON4C-Exhaust Stack Silencer Baffle	202003	693,251.59	59,137.73	-	59,137.73	634,113.86
258				693,251.59	59,137.73	-	59,137.73	634,113.86
259	A.0001563.015.001.003	Sagamore-Land & Land Rights	202008	77,031.02	-	-	-	77,031.02
260				77,031.02	-	-	-	77,031.02
261	A.0001550.235.001.002	HAR2C-H2 Rebag Partial 2020	202005	250,224.27	14,285.22	-	14,285.22	235,939.05
262				250,224.27	14,285.22	-	14,285.22	235,939.05
263	A.0001560.125.001.002	NIC3C-Rpl Downcomer Blowdown Vlv	201911	81,052.63	23,363.70	-	23,363.70	57,688.93
264				81,052.63	23,363.70	-	23,363.70	57,688.93
265	A.0001534.197.001.002	PLX4C-Rpl CT north stairway	201906	11,330.30	3,893.54	-	3,893.54	7,436.76
266				11,330.30	3,893.54	-	3,893.54	7,436.76
267	A.0001550.251.001.002	HAR1C-Rpl CT Mechanicals Ph3	201905	12,391.11	1,986.43	-	1,986.43	10,404.68
268				12,391.11	1,986.43	-	1,986.43	10,404.68
269	A.0001545.272.001.002	CHC2C-Rpl StartUp XFMR CA-4 Diff Rly	202007	53,964.71	19,571.05	-	19,571.05	34,393.66
270				53,964.71	19,571.05	-	19,571.05	34,393.66
271	A.0001545.262.001.002	CHC2C-Arc flash relay, 480 buss E	201910	49,177.76	11,620.61	-	11,620.61	37,557.15
272				49,177.76	11,620.61	-	11,620.61	37,557.15
273	A.0001534.187.001.002	PLX4C-Generator Rewedge	201910	718,361.38	4,962.20	-	4,962.20	713,399.18
274				718,361.38	4,962.20	-	4,962.20	713,399.18
275	A.0001560.133.001.003	NIC3C-Rpl FWH Lvl Transmitters	202003	192,857.51	7,491.86	-	7,491.86	185,365.65
276				192,857.51	7,491.86	-	7,491.86	185,365.65
277	A.0001534.051.001.002	PLX4C-Rpl Economizer Header	201905	153,347.05	(459.49)	-	(459.49)	153,806.54
278				153,347.05	(459.49)	-	(459.49)	153,806.54
279	A.0001560.124.001.002	NIC3C-Rpl Condenser Inlet Circ Pipe	201911	395,220.35	29,936.29	-	29,936.29	365,284.06

Southwestern Public Service Company

Energy Supply Capital Additions
July 1, 2019 through September 30, 2020

(A)		(B)	(C)	(D)	(E)	(F)
Line No.	WBS Level 4 Number	WBS Level 4 Description	Asset Class	Witness	Project Category	WBS Level 2 Number
280						A.0001560.124 Total
281	A.0001534.164.001.002	PLX4C-Upg DCS SIn & CP 19956	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001534.164
282						A.0001534.164 Total
283	A.0001586.270.001.002	JON2C-Rpl Oil Circ Break JK45	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.270
284						A.0001586.270 Total
285	A.0001550.407.001.002	HAR2C-Inst Maint Switch on MV Bkrs	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.407
286						A.0001550.407 Total
287	A.0001555.217.001.002	TOL0C-Rail Ballast & Alignmnt	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001555.217
288						A.0001555.217 Total
289	A.0001550.444.001.002	HAR1C- ESP Re-build 10 TR-sets	Electric Production	Lyal	Environmental Compliance	A.0001550.444
290						A.0001550.444 Total
291	A.0001550.388.001.002	HAR2C-Rpl Gen Hydrogen Purity Monit	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.388
292						A.0001550.388 Total
293	A.0001560.094.001.002	NIC3C-Rpl CT Structure Ph2	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001560.094
294						A.0001560.094 Total
295	A.0001534.196.001.002	PLX4C-Replace drum level indicator	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001534.196
296						A.0001534.196 Total
297	A.0001586.273.001.002	JON0C-Steam Heater Rpl-21034	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.273
298						A.0001586.273 Total
299	A.0001586.015.001.002	JON0C-ICCP Replacement-Jones RR	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.015
300						A.0001586.015 Total
301	A.0001550.080.001.002	HAR0C-RR Drainage Imprpt Ph2	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.080
302						A.0001550.080 Total
303	A.0001560.138.001.002	NIC3C-Install FD Fan VFD AC	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001560.138
304						A.0001560.138 Total
305	A.0001550.257.001.002	HAR1C-Rpl SBAC 1A Vib Monitoring	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.257
306						A.0001550.257 Total
307	A.0001560.099.001.002	NIC3C-N3 CEMS Upgrade	Electric Production	Lyal	Environmental Compliance	A.0001560.099
308						A.0001560.099 Total
309	A.0001586.302.001.002	JON1C-Rpl #9 Fan Shroud	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.302
310						A.0001586.302 Total
311	A.0001550.252.001.002	HAR1C-Rpl Drag Chain 2019	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.252
312						A.0001550.252 Total
313	A.0001586.074.001.002	JON2C-Rpl Scamed HRH Piping	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.074
314						A.0001586.074 Total
315	A.0001586.288.001.002	JON2C-Rpl Htr Drains Pnp	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.288
316						A.0001586.288 Total
317	A.0001560.121.001.002	NIC2C-Rpl Blowdown Piping	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001560.121
318						A.0001560.121 Total
319	A.0001555.031.001.002	TOL0C-TolkX Water Well Ph 8	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001555.031
320						A.0001555.031 Total
321	A.0001586.067.001.002	JON2C-Upg Foxboro FBMs	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.067
322						A.0001586.067 Total
323	A.0001555.071.001.002	TOL0C-W SBAC Overhaul 2018	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001555.071
324						A.0001555.071 Total
325	A.0001550.378.001.002	HAR1C-Rpl FWH3 Steam Separator	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.378
326						A.0001550.378 Total

Southwestern Public Service Company

Energy Supply Capital Additions
July 1, 2019 through September 30, 2020

(A)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	
Line No.	WBS Level 4 Number	WBS Level 2 Description	In-Service Date	Additions (Jul 2019 Sep 2020)	XES Charges (Included in Column I)	Other Affiliate Charges (Included in Column I)	Total Affiliate Charges (Included in Column I)	Total Native Charges (Columns I less L) Within the Total Additions to Plant-in-Service Shown in Column (I)
280	A.0001534.164.001.002	PLX4C-Upg DCS Opr Str and CP-19956	201906	395,220.35	29,936.29	-	29,936.29	365,284.06
281	A.0001534.164.001.002	PLX4C-Upg DCS Opr Str and CP-19956	201906	33,358.57	4,818.79	-	4,818.79	28,539.78
282	A.0001586.270.001.002	JON2C-Rpl Oil Circ Break JK45-19705	201905	33,358.57	4,818.79	-	4,818.79	28,539.78
283	A.0001586.270.001.002	JON2C-Rpl Oil Circ Break JK45-19705	201905	(0.04)	-	-	-	(0.04)
284	A.0001550.407.001.002	HAR2C-Inst Maint Switch on MV Bkrs	202005	(0.04)	-	-	-	(0.04)
285	A.0001550.407.001.002	HAR2C-Inst Maint Switch on MV Bkrs	202005	193,365.77	64,166.27	-	64,166.27	129,199.50
286	A.0001550.407.001.002	HAR2C-Inst Maint Switch on MV Bkrs	202005	193,365.77	64,166.27	-	64,166.27	129,199.50
287	A.0001555.217.001.002	TOL0C-Rail Ballast & Alignment	201911	446,277.96	17,514.24	-	17,514.24	428,763.72
288	A.0001555.217.001.002	TOL0C-Rail Ballast & Alignment	201911	446,277.96	17,514.24	-	17,514.24	428,763.72
289	A.0001550.444.001.002	HAR1C- ESP Re-build 10 TR-sets	201906	23,960.58	1,549.93	-	1,549.93	22,410.65
290	A.0001550.444.001.002	HAR1C- ESP Re-build 10 TR-sets	201906	23,960.58	1,549.93	-	1,549.93	22,410.65
291	A.0001550.388.001.002	HAR2C-Rpl Gen Hydrogen Purity Monit	202005	121,081.51	20,135.54	-	20,135.54	100,945.97
292	A.0001550.388.001.002	HAR2C-Rpl Gen Hydrogen Purity Monit	202005	121,081.51	20,135.54	-	20,135.54	100,945.97
293	A.0001560.094.001.002	NIC3C-CT Structure Unit3	201911	4,232,761.54	82,553.19	-	82,553.19	4,150,208.35
294	A.0001560.094.001.002	NIC3C-CT Structure Unit3	201911	4,232,761.54	82,553.19	-	82,553.19	4,150,208.35
295	A.0001534.196.001.002	PLX4C-Replace drum level indicator	201908	26,834.76	1,901.06	-	1,901.06	24,933.70
296	A.0001534.196.001.002	PLX4C-Replace drum level indicator	201908	26,834.76	1,901.06	-	1,901.06	24,933.70
297	A.0001586.273.001.002	JON0C-Steam Heater Rpl-21034	202003	72,126.11	2,038.66	-	2,038.66	70,087.45
298	A.0001586.273.001.002	JON0C-Steam Heater Rpl-21034	202003	72,126.11	2,038.66	-	2,038.66	70,087.45
299	A.0001586.015.001.002	JON0C-ICCP Replacement-Jones RR	201910	100,017.82	-	-	-	100,017.82
300	A.0001586.015.001.002	JON0C-ICCP Replacement-Jones RR	201910	100,017.82	-	-	-	100,017.82
301	A.0001550.080.001.002	HAR0C-H0 RR Drainage Imprpt Ph2	201911	96,610.03	38,734.15	-	38,734.15	57,875.88
302	A.0001550.080.001.002	HAR0C-H0 RR Drainage Imprpt Ph2	201911	96,610.03	38,734.15	-	38,734.15	57,875.88
303	A.0001560.138.001.002	NIC3C-Install FD Fan VFD AC	201906	33,310.70	6,718.54	-	6,718.54	26,592.16
304	A.0001560.138.001.002	NIC3C-Install FD Fan VFD AC	201906	33,310.70	6,718.54	-	6,718.54	26,592.16
305	A.0001550.257.001.002	HAR1C-Rpl SBAC 1A Vib Mon Sys	202007	28,342.93	10,314.03	-	10,314.03	18,028.90
306	A.0001550.257.001.002	HAR1C-Rpl SBAC 1A Vib Mon Sys	202007	28,342.93	10,314.03	-	10,314.03	18,028.90
307	A.0001560.099.001.002	NIC3C-N3 CEM's Upgrade	201907	225,495.07	23,286.65	-	23,286.65	202,208.42
308	A.0001560.099.001.002	NIC3C-N3 CEM's Upgrade	201907	225,495.07	23,286.65	-	23,286.65	202,208.42
309	A.0001586.302.001.002	JON1C-Rpl #9 Fan Shroud	202009	115,377.47	14,729.07	-	14,729.07	100,648.40
310	A.0001586.302.001.002	JON1C-Rpl #9 Fan Shroud	202009	115,377.47	14,729.07	-	14,729.07	100,648.40
311	A.0001550.252.001.002	HAR1C-Rpl Drag Chain 2019	201906	0.15	-	-	-	0.15
312	A.0001550.252.001.002	HAR1C-Rpl Drag Chain 2019	201906	0.15	-	-	-	0.15
313	A.0001586.074.001.002	JON2C-Rpl Seamed HRH Piping	201904	(0.13)	-	-	-	(0.13)
314	A.0001586.074.001.002	JON2C-Rpl Seamed HRH Piping	201904	(0.13)	-	-	-	(0.13)
315	A.0001586.288.001.002	JON2C-Rpl Htr Drains Pmp	201906	1,185.20	-	-	-	1,185.20
316	A.0001586.288.001.002	JON2C-Rpl Htr Drains Pmp	201906	1,185.20	-	-	-	1,185.20
317	A.0001560.121.001.002	NIC2C-Rpl Blowdown Piping	201906	1,999.06	1,364.29	-	1,364.29	634.77
318	A.0001560.121.001.002	NIC2C-Rpl Blowdown Piping	201906	1,999.06	1,364.29	-	1,364.29	634.77
319	A.0001555.031.001.002	TOL0C-ToileX Water Well Ph 8	201906	55,459.74	72,045.00	-	72,045.00	(16,585.26)
320	A.0001555.031.001.002	TOL0C-ToileX Water Well Ph 8	201906	55,459.74	72,045.00	-	72,045.00	(16,585.26)
321	A.0001586.067.001.002	JON2C-Upg Foxboro FBMs	201905	1,072.45	656.45	-	656.45	416.00
322	A.0001586.067.001.002	JON2C-Upg Foxboro FBMs	201905	1,072.45	656.45	-	656.45	416.00
323	A.0001555.071.001.002	TOL0C-W SBAC Overhaul 2018	201906	22,846.76	1,271.12	-	1,271.12	21,575.64
324	A.0001555.071.001.002	TOL0C-W SBAC Overhaul 2018	201906	22,846.76	1,271.12	-	1,271.12	21,575.64
325	A.0001550.378.001.002	HAR1C-Rpl FWH3 Steam Separator	201905	159.06	-	-	-	159.06
326	A.0001550.378.001.002	HAR1C-Rpl FWH3 Steam Separator	201905	159.06	-	-	-	159.06

Southwestern Public Service Company

Energy Supply Capital Additions
July 1, 2019 through September 30, 2020

(A)		(B)	(C)	(D)	(E)	(F)
Line No.	WBS Level 4 Number	WBS Level 4 Description	Asset Class	Witness	Project Category	WBS Level 2 Number
327	A.0001550.307.001.002	HAR1C-Upgrade DCS Op Stations	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.307
328						A.0001550.307 Total
329	A.0001534.200.001.002	PLX4C-X4 East BFP element rebuild	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001534.200
330						A.0001534.200 Total
331	A.0001555.009.001.002	TOL1C-Inst Main Pwr Xfmr DGA	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001555.009
332						A.0001555.009 Total
333	A.0001550.447.001.002	HAR1C-Rpl ESP Wires Ph 1 of 2	Electric Production	Lyal	Environmental Compliance	A.0001550.447
334						A.0001550.447 Total
335	A.0001534.158.001.002	PLX4C-Rpl IHE Seamed Piping-20747	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001534.158
336						A.0001534.158 Total
337	A.0001550.375.001.002	HAR1C-N CT header Expansion Joints	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.375
338						A.0001550.375 Total
339	A.0001534.192.001.002	PLX0C-Sump piping to pond in tunnel	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001534.192
340						A.0001534.192 Total
341	A.0001560.146.001.002	NIC1C-Rpl Battery Charger -24014	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001560.146
342						A.0001560.146 Total
343	A.0001534.154.001.002	PLX0C-Rpl Gen Bkr Failure Relay	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001534.154
344						A.0001534.154 Total
345	A.0001545.104.001.002	CHC2C-Upg CEMs Foxboro Sys	Electric Production	Lyal	Environmental Compliance	A.0001545.104
346						A.0001545.104 Total
347	A.0001550.050.001.002	HAR1C-H1 Rpl Foxboro FBMs	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.050
348						A.0001550.050 Total
349	A.0001545.263.001.002	CHC2C-Are flash relay, CT 480 buss	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001545.263
350						A.0001545.263 Total
351	A.0001555.414.001.002	TOL0C-Startup A-B Transformer DGA	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001555.414
352						A.0001555.414 Total
353	A.0001550.382.001.002	HAR3-H3 Rpl CT Pumphouse Roof	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.382
354						A.0001550.382 Total
355	A.0001534.205.001.002	PLX0C-Replace RO pump drives	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001534.205
356						A.0001534.205 Total
357	A.0001586.286.001.002	JON2C-Inst Onln Vib Mntr Sys	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.286
358						A.0001586.286 Total
359	A.0001545.261.001.002	CHC2C-Are flash relay, 480 buss A	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001545.261
360						A.0001545.261 Total
361	A.0001534.195.001.002	PLX4C-Replace condensate supply pip	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001534.195
362						A.0001534.195 Total
363	A.0001550.208.001.002	HAR3C Partial Rebag	Electric Production	Lyal	Environmental Compliance	A.0001550.208
364						A.0001550.208 Total
365	A.0001534.162.001.002	PLX4C-Rpl XK-04 Oil Ckt Brkr-20817	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001534.162
366						A.0001534.162 Total
367	A.0001555.413.001.002	TOL0C-Rpl TK09 oil circuit breaker	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001555.413
368						A.0001555.413 Total
369	A.0001586.263.001.002	JON0C-Rpl Oil Cir Breaker JK10	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.263
370						A.0001586.263 Total
371	A.0001550.457.001.002	HAR3C-Rpl CT Hot Water Decks	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.457
372						A.0001550.457 Total
373	A.0001550.285.001.002	HAR3C-Rpl CT Mechanicals P2	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.285

Southwestern Public Service Company

Energy Supply Capital Additions
July 1, 2019 through September 30, 2020

(A)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	
Line No.	WBS Level 4 Number	WBS Level 2 Description	In-Service Date	Additions (Jul 2019 Sep 2020)	XES Charges (Included in Column I)	Other Affiliate Charges (Included in Column I)	Total Affiliate Charges (Included in Column I)	Total Native Charges (Columns I less L) Within the Total Additions to Plant-in-Service Shown in Column (I)
327	A.0001550.307.001.002	HAR1C-H1 Upgrd DCS Opr sin	201906	1,345.79	1,290.67	-	1,290.67	55.12
328				1,345.79	1,290.67	-	1,290.67	55.12
329	A.0001534.200.001.002	PLX4C-X4 East BFP element rebuild	201911	167,056.50	4,742.14	-	4,742.14	162,314.36
330				167,056.50	4,742.14	-	4,742.14	162,314.36
331	A.0001555.009.001.002	TOL1C-Inst Main Pwr Xfmr DGA	201906	2,893.62	1,155.18	-	1,155.18	1,738.44
332				2,893.62	1,155.18	-	1,155.18	1,738.44
333	A.0001550.447.001.002	HAR1C- Rpl ESP Wires Ph 1 of 2	201906	1,127.26	1,174.98	-	1,174.98	(47.72)
334				1,127.26	1,174.98	-	1,174.98	(47.72)
335	A.0001534.158.001.002	PLX4C-Rpl HE Seamed Piping-20747	201906	21,618.84	(656.06)	-	(656.06)	22,274.90
336				21,618.84	(656.06)	-	(656.06)	22,274.90
337	A.0001550.375.001.002	HAR1C-N CT header Expansion Joints	201905	439.68	-	-	-	439.68
338				439.68	-	-	-	439.68
339	A.0001534.192.001.002	PLX0C-Sump piping to pond in tunnel	201905	(15,196.87)	1,262.41	-	1,262.41	(16,459.28)
340				(15,196.87)	1,262.41	-	1,262.41	(16,459.28)
341	A.0001560.146.001.002	NIC1C-Rpl Battery Charger -24014	202008	21,558.00	2,638.73	-	2,638.73	18,919.27
342				21,558.00	2,638.73	-	2,638.73	18,919.27
343	A.0001534.154.001.002	PLX0C-Rpl Gen Bkr Failure Relay-210	201908	160,605.86	13,244.81	-	13,244.81	147,361.05
344				160,605.86	13,244.81	-	13,244.81	147,361.05
345	A.0001545.104.001.002	CHC2C-Upg CEMs Foxboro Sys	201911	240,736.63	42,486.49	-	42,486.49	198,250.14
346				240,736.63	42,486.49	-	42,486.49	198,250.14
347	A.0001550.050.001.002	HAR1C-H1 Rpl Foxboro FBMs	201906	1,584.82	1,318.51	-	1,318.51	266.31
348				1,584.82	1,318.51	-	1,318.51	266.31
349	A.0001545.263.001.002	CHC2C-Arc flash relay, CT 480 buss	201910	43,406.68	11,527.21	-	11,527.21	31,879.47
350				43,406.68	11,527.21	-	11,527.21	31,879.47
351	A.0001555.414.001.002	TOL0C-Startup A-B Transformer DGA	202007	104,072.31	34,181.73	-	34,181.73	69,890.58
352				104,072.31	34,181.73	-	34,181.73	69,890.58
353	A.0001550.382.001.002	HAR3-H3 Rpl CT Pumphouse Roof	201905	12,140.45	759.96	-	759.96	11,380.49
354				12,140.45	759.96	-	759.96	11,380.49
355	A.0001534.205.001.002	PLX0C-Replace RO pump drives	202004	54,197.09	12,770.37	-	12,770.37	41,426.72
356				54,197.09	12,770.37	-	12,770.37	41,426.72
357	A.0001586.286.001.002	JON2C-Inst Onln Vib Mnt- Sys	202005	124,798.50	34,794.98	-	34,794.98	90,003.52
358				124,798.50	34,794.98	-	34,794.98	90,003.52
359	A.0001545.261.001.002	CHC2C-Arc flash relay, 480 buss A	201910	42,087.15	8,193.20	-	8,193.20	33,893.95
360				42,087.15	8,193.20	-	8,193.20	33,893.95
361	A.0001534.195.001.002	PLX4C-Replace condensate supply pip	201906	2,094.19	276.01	-	276.01	1,818.18
362				2,094.19	276.01	-	276.01	1,818.18
363	A.0001550.208.001.002	HAR3C-H3 Rebag Partial 2019	201910	113,851.39	6,055.84	-	6,055.84	107,795.55
364				113,851.39	6,055.84	-	6,055.84	107,795.55
365	A.0001534.162.001.002	PLX4C-Rpl XK-04 Oil Ckt Bkr-20817	201906	1,801.76	1,384.05	-	1,384.05	417.71
366				1,801.76	1,384.05	-	1,384.05	417.71
367	A.0001555.413.001.002	TOL0C-Rpl TK09 oil circuit breaker	202009	305,100.76	72,382.79	166.10	72,548.89	232,551.87
368				305,100.76	72,382.79	166.10	72,548.89	232,551.87
369	A.0001586.263.001.002	JON0C-Rpl Oil Circ Breaker JK10-210	201911	412,627.39	33,571.50	-	33,571.50	379,055.89
370				412,627.39	33,571.50	-	33,571.50	379,055.89
371	A.0001550.457.001.002	HAR3C- Rpl CT Hot Water Deck	201905	1,157.62	-	-	-	1,157.62
372				1,157.62	-	-	-	1,157.62
373	A.0001550.285.001.002	HAR3C-Rpl CT Mechanicals Ph2	201905	6,162.09	47.02	-	47.02	6,115.07

Southwestern Public Service Company

Energy Supply Capital Additions
July 1, 2019 through September 30, 2020

(A)		(B)	(C)	(D)	(E)	(F)
Line No.	WBS Level 4 Number	WBS Level 4 Description	Asset Class	Witness	Project Category	WBS Level 2 Number
374	A.0001550.456.001.002	HAR3C-Rpl CT Fan Deck	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.285 Total
375	A.0001550.456.001.002					A.0001550.456
376	A.0001550.456.001.002					A.0001550.456 Total
377	A.0001560.131.001.002	NIC3C-Rpl MS Vent Valve	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001560.131
378	A.0001560.131.001.002					A.0001560.131 Total
379	A.0001550.395.001.002	HAR2C-East Vac Pump Overhaul	Electric Production	Lyal	Environmental Compliance	A.0001550.395
380	A.0001550.395.001.002					A.0001550.395 Total
381	A.0001586.271.001.002	JON2C-Rpl CP's	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.271
382	A.0001586.271.001.002					A.0001586.271 Total
383	A.0001586.289.001.002	JON2C-Rpl L1 Gen End Turb Bids	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.289
384	A.0001586.289.001.002					A.0001586.289 Total
385	A.0001560.128.001.002	NIC3C-Rpl CW Risers at CT	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001560.128
386	A.0001560.128.001.002					A.0001560.128 Total
387	A.0001545.260.001.002	CHCOC-Are flash relay, 480 buss G	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001545.260
388	A.0001545.260.001.002					A.0001545.260 Total
389	A.0001550.346.001.002	HAR2C-H2 Rpl Foxboro FBMs	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.346
390	A.0001550.346.001.002					A.0001550.346 Total
391	A.0001555.124.001.002	TOL1C-RPL Baghouse Roof	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001555.124
392	A.0001555.124.001.002					A.0001555.124 Total
393	A.0001550.392.001.002	HAR2C-H2 Rpl Burners	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.392
394	A.0001550.392.001.002					A.0001550.392 Total
395	A.0001550.394.001.002	HAR3C-Overhaul Stack Elevator	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.394
396	A.0001550.394.001.002					A.0001550.394 Total
397	A.0001529.087.001.002	MAD1C-Rpl StrUp XFMR CA-4 DiffRly	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001529.087
398	A.0001529.087.001.002					A.0001529.087 Total
399	A.0001545.089.001.002	CHCOC-Rep Water Wells 2020	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001545.089
400	A.0001545.089.001.002					A.0001545.089 Total
401	A.0001550.373.001.002	HAR0C-Rpl Fire Hydrants & Valves	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.373
402	A.0001550.373.001.002					A.0001550.373 Total
403	A.0001534.188.001.002	PLX4C-Rpl Mud Drum Drain Vls	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001534.188
404	A.0001534.188.001.002					A.0001534.188 Total
405	A.0001550.186.001.002	HAR2C-H2 Rpl #6 LP FWH	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.186
406	A.0001550.186.001.002					A.0001550.186 Total
407	A.0001555.104.001.002	TOL0C-Rpl RR Ties PH 5 of 5	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001555.104
408	A.0001555.104.001.002					A.0001555.104 Total
409	A.0001534.063.001.002	PLX0C-Boiler Road Paving	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001534.063
410	A.0001534.063.001.002					A.0001534.063 Total
411	A.0001590.004.001.002	GMSOC-ICCP Replacement-BlackHawk	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001590.004
412	A.0001590.004.001.002					A.0001590.004 Total
413	A.0001550.376.001.002	HAR1C-Rpl DA Heater Vessel	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.376
414	A.0001550.376.001.002					A.0001550.376 Total
415	A.0001555.299.001.002	TOL0C-ICCP Replacement-Tolk	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001555.299
416	A.0001555.299.001.002					A.0001555.299 Total
417	A.0001550.469.001.002	HAR2C-Inst Online Vib Mntr Sys	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.469
418	A.0001550.469.001.002					A.0001550.469 Total
419	A.0001529.076.001.002	MAD1C-Rpl Srv H2O Pnp Assemb	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001529.076
420	A.0001529.076.001.002					A.0001529.076 Total

Southwestern Public Service Company

Energy Supply Capital Additions
July 1, 2019 through September 30, 2020

(A)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	
Line No.	WBS Level 4 Number	WBS Level 2 Description	In-Service Date	Additions (Jul 2019 Sep 2020)	XES Charges (Included in Column I)	Other Affiliate Charges (Included in Column I)	Total Affiliate Charges (Included in Column I)	Total Native Charges (Columns I less L) Within the Total Additions to Plant-in-Service Shown in Column (I)
374				6,162.09	47.02	-	47.02	6,115.07
375	A.0001550.456.001.002	HAR3C- Rpl CT fan deck	201905	(28,136.36)	1,374.85	-	1,374.85	(29,511.21)
376				(28,136.36)	1,374.85	-	1,374.85	(29,511.21)
377	A.0001560.131.001.002	NIC3C-Rpl MS Vent Valve	201912	118,758.69	18,965.79	-	18,965.79	99,792.90
378				118,758.69	18,965.79	-	18,965.79	99,792.90
379	A.0001550.395.001.002	HAR2C-East Vac Pump Overhaul	202005	49,826.64	-	-	-	49,826.64
380				49,826.64	-	-	-	49,826.64
381	A.0001586.271.001.002	JON2C-Rpl CP's-19973	201905	695.11	656.45	-	656.45	38.66
382				695.11	656.45	-	656.45	38.66
383	A.0001586.289.001.002	JON2C-Rpl L1 Gen End Turb Blds	201904	(0.04)	-	-	-	(0.04)
384				(0.04)	-	-	-	(0.04)
385	A.0001560.128.001.002	NIC3C-Rpl CW Risers at CT	201911	339,148.65	26,904.25	-	26,904.25	312,244.40
386				339,148.65	26,904.25	-	26,904.25	312,244.40
387	A.0001545.260.001.002	CHC0C-Arc flash relay, 480 buss G	202005	130,065.81	28,311.47	-	28,311.47	101,754.34
388				130,065.81	28,311.47	-	28,311.47	101,754.34
389	A.0001550.346.001.002	HAR2C-H2 Rpl Foxboro FBMs	202007	1,814,085.03	136,287.94	-	136,287.94	1,677,797.09
390				1,814,085.03	136,287.94	-	136,287.94	1,677,797.09
391	A.0001555.124.001.002	TOL1-Replace T1 Baghouse Roof	201906	9,827.89	759.96	-	759.96	9,067.93
392				9,827.89	759.96	-	759.96	9,067.93
393	A.0001550.392.001.002	HAR2C-H2 Rpl Burners	202005	522,817.02	4,688.96	-	4,688.96	518,128.06
394				522,817.02	4,688.96	-	4,688.96	518,128.06
395	A.0001550.394.001.002	HAR3C-Overhaul Stuck Elevator	201909	417,994.77	14,841.65	-	14,841.65	403,153.12
396				417,994.77	14,841.65	-	14,841.65	403,153.12
397	A.0001529.087.001.002	MAD1C-Rpl StrUp XFMR CA-4 Diff Rly	202005	45,220.61	16,948.27	-	16,948.27	28,272.34
398				45,220.61	16,948.27	-	16,948.27	28,272.34
399	A.0001545.089.001.002	CHC0C-Rep Water Wells 2020	202007	119,055.40	2,300.43	-	2,300.43	116,754.97
400				119,055.40	2,300.43	-	2,300.43	116,754.97
401	A.0001550.373.001.002	HAR0C-Rpl Fire Hydrants & Valves	201909	447,533.92	29,140.44	-	29,140.44	418,393.48
402				447,533.92	29,140.44	-	29,140.44	418,393.48
403	A.0001534.188.001.002	PLX4C-Rpl Mud Drum Drain Vlys	201906	2,982.09	(803.78)	-	(803.78)	3,785.87
404				2,982.09	(803.78)	-	(803.78)	3,785.87
405	A.0001550.186.001.002	HAR2C-H2 Rpl #6 LP FWH	202005	555,713.96	15,371.21	-	15,371.21	540,342.75
406				555,713.96	15,371.21	-	15,371.21	540,342.75
407	A.0001555.104.001.002	TOL0C-Rpl RR Ties PH 5 of 5	201911	900,494.57	50,438.10	-	50,438.10	850,056.47
408				900,494.57	50,438.10	-	50,438.10	850,056.47
409	A.0001534.063.001.002	PLX0C-Boiler Road Paving	201909	306,908.01	36,351.57	-	36,351.57	270,556.44
410				306,908.01	36,351.57	-	36,351.57	270,556.44
411	A.0001590.004.001.002	GMS0C-ICCP Replacement-BlackHawk	201912	107,912.50	-	-	-	107,912.50
412				107,912.50	-	-	-	107,912.50
413	A.0001550.376.001.002	HAR1C-Rpl DA Heater Vessel	201904	91,536.47	631.21	-	631.21	90,905.26
414				91,536.47	631.21	-	631.21	90,905.26
415	A.0001555.299.001.002	TOL0C-ICCP Replacement-Tolk	201910	102,052.38	-	-	-	102,052.38
416				102,052.38	-	-	-	102,052.38
417	A.0001550.469.001.002	HAR2C-Inst Online Vib Mnt'r Sys	202003	55,330.64	29,820.78	-	29,820.78	25,509.86
418				55,330.64	29,820.78	-	29,820.78	25,509.86
419	A.0001529.076.001.002	MAD1C-Rpl Srv H2O Pmp Assemb	201906	0.03	-	-	-	0.03
420				0.03	-	-	-	0.03

Southwestern Public Service Company

Energy Supply Capital Additions
July 1, 2019 through September 30, 2020

(A)		(B)	(C)	(D)	(E)	(F)
Line No.	WBS Level 4 Number	WBS Level 4 Description	Asset Class	Witness	Project Category	WBS Level 2 Number
421	A.0001545.075.001.002	CHCOC-Rpl Water Well Valves	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001545.075
422						A.0001545.075 Total
423	A.0001550.464.001.002	HAR1C-Inst Online Vib Mnt'r Sys	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.464
424						A.0001550.464 Total
425	A.0001529.081.001.002	MAD1C-Rpl Ct Fan MCC Breakers	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001529.081
426						A.0001529.081 Total
427	A.0001550.207.001.002	HAR2C-Rebag Partial 2019	Electric Production	Lyal	Environmental Compliance	A.0001550.207
428						A.0001550.207 Total
429	A.0001550.387.001.002	HAR1C-Rpl Gen Hydrogen Purity Monit	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.387
430						A.0001550.387 Total
431	A.0001529.095.001.002	MAD0C-Rpl Overhead Crane - NEW	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001529.095
432						A.0001529.095 Total
433	A.0001586.284.001.002	JON1C-Rpl CT Makeup Piping	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.284
434						A.0001586.284 Total
435	A.0001550.270.001.002	HAR2C-Rpl Drag Chain 2020	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.270
436						A.0001550.270 Total
437	A.0001550.467.001.002	HAR1C-Rpl EHC Pump Sys.	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.467
438						A.0001550.467 Total
439	A.0001534.206.001.002	PLX0C-Replace Lab Chiller	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001534.206
440						A.0001534.206 Total
441	A.0001550.468.001.002	HAR1C-Rpl HV Gen Bushings	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.468
442						A.0001550.468 Total
443	A.0001550.471.001.002	HAR2C-Rpl CT MCCs on F-Bus	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.471
444						A.0001550.471 Total
445	A.0001550.470.001.002	HAR2C-Rpl CT Riser Inlet Vlvs	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.470
446						A.0001550.470 Total
447	A.0001555.221.001.002	TOL1C-Rpr Mill D GearBx & Jml	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001555.221
448						A.0001555.221 Total
449	A.0001550.405.001.002	HAR2C-Install XFMR DGA	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.405
450						A.0001550.405 Total
451	A.0001586.268.001.002	JON2C-3051 Transm Rpl Ph2	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.268
452						A.0001586.268 Total
453	A.0001555.213.001.002	TOL1C-Rpl Baghouse Bags 2019	Electric Production	Lyal	Environmental Compliance	A.0001555.213
454						A.0001555.213 Total
455	A.0001550.472.001.002	HAR2C-Rpl EHC Pump Sys.	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.472
456						A.0001550.472 Total
457	A.0001560.130.001.002	NIC3C-Rpl BFP Drive Actuators	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001560.130
458						A.0001560.130 Total
459	A.0001550.379.001.002	HAR1C-Rpl FWH7 Separator	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.379
460						A.0001550.379 Total
461	A.0001550.187.001.002	HAR2C-H2 Rpl #5 LP FWH	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.187
462						A.0001550.187 Total
463	A.0001529.005.001.002	MAD1C-Rpl CT Fans & Gearboxes	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001529.005
464						A.0001529.005 Total
465	A.0001550.242.001.002	HAR0C-Purchase Hydrogen Generator	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.242
466						A.0001550.242 Total
467	A.0001550.406.001.002	HAR2C-Rpl Steam Cooled Spacer Tubes	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.406

Southwestern Public Service Company

Energy Supply Capital Additions
July 1, 2019 through September 30, 2020

(A)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	
Line No.	WBS Level 4 Number	WBS Level 2 Description	In-Service Date	Additions (Jul 2019 Sep 2020)	XES Charges (Included in Column I)	Other Affiliate Charges (Included in Column I)	Total Affiliate Charges (Included in Column I)	Total Native Charges (Columns I less L) Within the Total Additions to Plant-in-Service Shown in Column I)
421	A.0001545.075.001.002	CHC0C-Rpl Water Well Valves	201908	35,344.39	-	-	-	35,344.39
422				35,344.39	-	-	-	35,344.39
423	A.0001550.464.001.002	HAR1C-Inst Online Vib Mnr Sys	202001	49,784.98	14,459.40	-	14,459.40	35,325.58
424				49,784.98	14,459.40	-	14,459.40	35,325.58
425	A.0001529.081.001.002	MAD1C-Rpl Ct Fan MCC Breakers	201905	12,099.46	949.18	-	949.18	11,150.28
426				12,099.46	949.18	-	949.18	11,150.28
427	A.0001550.207.001.002	HAR2C-Rebag Partial2019	201906	55.49	-	-	-	55.49
428				55.49	-	-	-	55.49
429	A.0001550.387.001.002	HAR1C-Rpl Gen Hydrogen Purity Monit	201905	(983.35)	-	-	-	(983.35)
430				(983.35)	-	-	-	(983.35)
431	A.0001529.095.001.002	MAD0C-Rpl Overhead Crane - NEW	202009	475,676.77	17,144.65	-	17,144.65	458,821.42
432				475,676.77	17,144.65	-	17,144.65	458,821.42
433	A.0001586.284.001.002	JON1C-Rpl CT Makeup Piping	201905	(0.05)	-	-	-	(0.05)
434				(0.05)	-	-	-	(0.05)
435	A.0001550.270.001.002	HAR2C-Rpl Drag Chain 2020	202005	66,143.86	-	-	-	66,143.86
436				66,143.86	-	-	-	66,143.86
437	A.0001550.467.001.002	HAR1C-Rpl EHC Pump Sys.	201906	1,379.52	-	-	-	1,379.52
438				1,379.52	-	-	-	1,379.52
439	A.0001534.206.001.002	PLX0C-Replace Lab Chiller	202003	25,048.67	1,993.18	-	1,993.18	23,055.49
440				25,048.67	1,993.18	-	1,993.18	23,055.49
441	A.0001550.468.001.002	HAR1C-Rpl HV Gen Bushings	201906	165.38	-	-	-	165.38
442				165.38	-	-	-	165.38
443	A.0001550.471.001.002	HAR2C-Rpl CT MCCs on F-Bus	202005	268,787.19	35,661.29	-	35,661.29	233,125.90
444				268,787.19	35,661.29	-	35,661.29	233,125.90
445	A.0001550.470.001.002	HAR2C-Rpl CT Riser Inlet Vlvs	202006	297,459.75	29,855.06	-	29,855.06	267,604.69
446				297,459.75	29,855.06	-	29,855.06	267,604.69
447	A.0001555.221.001.002	TOL1C-Rpr MillID GearBx & Jrnl	201912	799,147.74	25,528.58	-	25,528.58	773,619.16
448				799,147.74	25,528.58	-	25,528.58	773,619.16
449	A.0001550.405.001.002	HAR2C-Install XFMR DGA	202007	88,007.57	10,060.62	-	10,060.62	77,946.95
450				88,007.57	10,060.62	-	10,060.62	77,946.95
451	A.0001586.268.001.002	JON2C-3051 Transm Rpl Ph 2-20818	201904	3,772.79	1,745.39	-	1,745.39	2,027.40
452				3,772.79	1,745.39	-	1,745.39	2,027.40
453	A.0001555.213.001.002	TOL1C-Rpl Baghouse Bags 2019	201906	7,879.14	6,722.23	-	6,722.23	1,156.91
454				7,879.14	6,722.23	-	6,722.23	1,156.91
455	A.0001550.472.001.002	HAR2C-Rpl EHC Pump Sys.	202005	323,404.77	31,656.37	-	31,656.37	291,748.40
456				323,404.77	31,656.37	-	31,656.37	291,748.40
457	A.0001560.130.001.002	NIC3C-Rpl BEP Drive Actuators	201912	41,048.97	12,236.16	-	12,236.16	28,812.81
458				41,048.97	12,236.16	-	12,236.16	28,812.81
459	A.0001550.379.001.002	HAR1C-Rpl FWH7 Separator	201905	430.41	-	-	-	430.41
460				430.41	-	-	-	430.41
461	A.0001550.187.001.002	HAR2C-H2 Rpl #5 LP FWH	202005	556,164.36	15,598.13	-	15,598.13	540,566.23
462				556,164.36	15,598.13	-	15,598.13	540,566.23
463	A.0001529.005.001.002	MAD1C-Rpl CT Fans & Gearboxes	201905	3,358.38	29.61	-	29.61	3,328.77
464				3,358.38	29.61	-	29.61	3,328.77
465	A.0001550.242.001.002	HAR0C-Pureh Hydrogen Generator	202003	3.93	(10.00)	-	(10.00)	13.93
466				3.93	(10.00)	-	(10.00)	13.93
467	A.0001550.406.001.002	HAR2C-Rpl Steam Cooled Spacer Tubes	202005	639,584.55	16,260.83	-	16,260.83	623,323.72

Southwestern Public Service Company

Energy Supply Capital Additions
July 1, 2019 through September 30, 2020

Line No.	WBS Level 4 Number	WBS Level 4 Description	Asset Class	Witness	Project Category	WBS Level 2 Number
468	A.0001586.269.001.002	JON2C-SH Header Sealbox Rpl	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.406 Total
469	A.0001586.269.001.002	JON2C-SH Header Sealbox Rpl	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.269 Total
470	A.0001550.018.001.002	HAR0C-Rpl Paving Phase 4/6	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.018 Total
471	A.0001550.018.001.002	HAR0C-Rpl Paving Phase 4/6	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.018 Total
472	A.0001545.131.001.001	CHC2C Rpl Boiler Tube	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001545.131 Total
473	A.0001545.131.001.001	CHC2C Rpl Boiler Tube	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001545.131 Total
474	A.0001534.189.001.002	PLX4C-Inst Online Vib Mntr Sys	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001534.189 Total
475	A.0001534.189.001.002	PLX4C-Inst Online Vib Mntr Sys	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001534.189 Total
476	A.0001560.132.001.002	NIC3C-N3 Rpl UPS Inverter	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001560.132 Total
477	A.0001560.132.001.002	NIC3C-N3 Rpl UPS Inverter	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001560.132 Total
478	A.0001586.266.001.002	JON0C-RO EDI Filter Rpl-20273	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.266 Total
479	A.0001586.266.001.002	JON0C-RO EDI Filter Rpl-20273	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.266 Total
480	A.0001529.083.001.002	MAD0C-Rpl Waterwells 2020	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001529.083 Total
481	A.0001529.083.001.002	MAD0C-Rpl Waterwells 2020	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001529.083 Total
482	A.0001550.345.001.002	HAR3C-Mill B Major Overhaul	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.345 Total
483	A.0001550.345.001.002	HAR3C-Mill B Major Overhaul	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.345 Total
484	A.0001586.125.001.002	JON2C-Rewind Exciter Rotor	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.125 Total
485	A.0001586.125.001.002	JON2C-Rewind Exciter Rotor	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001586.125 Total
486	A.0001560.140.001.002	NIC3C-Rpl Gas Firing Valve	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001560.140 Total
487	A.0001560.140.001.002	NIC3C-Rpl Gas Firing Valve	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001560.140 Total
488	A.0001550.421.001.001	HAR2C Gen Stator Rewind	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.421 Total
489	A.0001550.421.001.001	HAR2C Gen Stator Rewind	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001550.421 Total
490	A.0001555.433.001.002	TOL1C-Rpl RH Loops	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001555.433 Total
491	A.0001555.433.001.002	TOL1C-Rpl RH Loops	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001555.433 Total
492	A.0001555.420.001.002	TOL1C-A B xfmr X winding bushings	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001555.420 Total
493	A.0001555.420.001.002	TOL1C-A B xfmr X winding bushings	Electric Production	Lyal	Reliability & Performance Enhancement	A.0001555.420 Total
494	A.0001529.086.001.002	MAD0C-Rpl Septic System	Electric Production	Lyal	Environmental Compliance	A.0001529.086 Total
495	A.0001529.086.001.002	MAD0C-Rpl Septic System	Electric Production	Lyal	Environmental Compliance	A.0001529.086 Total
496						
497						
498	A.0001577.004.001.002	Hale-Xsmn Serving Generation	Electric Transmission	Lyal	New Generation	A.0001577.004 Total
499	A.0001577.004.001.002	Hale-Xsmn Serving Generation	Electric Transmission	Lyal	New Generation	A.0001577.004 Total
500	A.0001402.006.001.002	J15 Texas	Electric Transmission	Lyal	New Generation	A.0001402.006 Total
501	A.0001402.006.001.002	J15 Texas	Electric Transmission	Lyal	New Generation	A.0001402.006 Total
502	A.0001563.017.001.002	Sagamore-Collector Sub South Land	Electric Transmission	Lyal	New Generation	A.0001563.017 Total
503	A.0001563.017.001.002	Sagamore-Collector Sub South Land	Electric Transmission	Lyal	New Generation	A.0001563.017 Total
504	A.0001402.009.001.002	K21 Upgrades	Electric Transmission	Lyal	New Generation	A.0001402.009 Total
505	A.0001402.009.001.002	K21 Upgrades	Electric Transmission	Lyal	New Generation	A.0001402.009 Total
506	A.0001402.015.001.002	Tolk J15 Return Line	Electric Transmission	Lyal	New Generation	A.0001402.015 Total
507	A.0001402.015.001.002	Tolk J15 Return Line	Electric Transmission	Lyal	New Generation	A.0001402.015 Total
508	A.0001402.011.001.002	K42 Upgrades	Electric Transmission	Lyal	New Generation	A.0001402.011 Total
509	A.0001402.011.001.002	K42 Upgrades	Electric Transmission	Lyal	New Generation	A.0001402.011 Total
510	A.0001563.016.001.002	Sagamore-Collector Sub North Land	Electric Transmission	Lyal	New Generation	A.0001563.016 Total
511	A.0001563.016.001.002	Sagamore-Collector Sub North Land	Electric Transmission	Lyal	New Generation	A.0001563.016 Total
512	A.0001577.005.001.002	Hale-Sub Serving Generation	Electric Transmission	Lyal	New Generation	A.0001577.005 Total
513	A.0001577.005.001.002	Hale-Sub Serving Generation	Electric Transmission	Lyal	New Generation	A.0001577.005 Total

Southwestern Public Service Company

Energy Supply Capital Additions
July 1, 2019 through September 30, 2020

(A)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	
Line No.	WBS Level 4 Number	WBS Level 2 Description	In-Service Date	Additions (Jul 2019 Sep 2020)	XES Charges (Included in Column I)	Other Affiliate Charges (Included in Column I)	Total Affiliate Charges (Included in Column I)	Total Native Charges (Columns I less L) Within the Total Additions to Plant-in-Service Shown in Column (I)
468	A.0001586.269.001.002	JON2C-SH Header Sealbox Rpl-21240	201904	639,584.55	16,260.83	-	16,260.83	623,323.72
469	A.0001586.269.001.002	JON2C-SH Header Sealbox Rpl-21240	201904	25,984.79	1,985.15	-	1,985.15	23,999.64
470	A.0001586.269.001.002	JON2C-SH Header Sealbox Rpl-21240	201904	25,984.79	1,985.15	-	1,985.15	23,999.64
471	A.0001550.018.001.002	HAR0C-Rpl Paving Phase 4/6	201908	277,258.16	11,925.08	-	11,925.08	265,333.08
472	A.0001550.018.001.002	HAR0C-Rpl Paving Phase 4/6	201908	277,258.16	11,925.08	-	11,925.08	265,333.08
473	A.0001545.131.001.001	CHC2C Rpl Boiler Tube	202007	3,961,585.80	216,733.94	-	216,733.94	3,744,851.86
474	A.0001545.131.001.001	CHC2C Rpl Boiler Tube	202007	3,961,585.80	216,733.94	-	216,733.94	3,744,851.86
475	A.0001534.189.001.002	PLX4C-Inst Online Vib Mmr Sys	202007	38,499.21	21,601.61	-	21,601.61	16,897.60
476	A.0001534.189.001.002	PLX4C-Inst Online Vib Mmr Sys	202007	38,499.21	21,601.61	-	21,601.61	16,897.60
477	A.0001560.132.001.002	NIC3C-N3 Rpl UPS Inverter	201910	111,654.71	30,240.94	-	30,240.94	81,413.77
478	A.0001560.132.001.002	NIC3C-N3 Rpl UPS Inverter	201910	111,654.71	30,240.94	-	30,240.94	81,413.77
479	A.0001586.266.001.002	JON0C-RO EDI Filter Rpl-20273	202009	42,429.18	-	-	-	42,429.18
480	A.0001586.266.001.002	JON0C-RO EDI Filter Rpl-20273	202009	42,429.18	-	-	-	42,429.18
481	A.0001529.083.001.002	MAD0C-Rpl Waterwells 2020	202005	129,762.02	5,290.92	-	5,290.92	124,471.10
482	A.0001529.083.001.002	MAD0C-Rpl Waterwells 2020	202005	129,762.02	5,290.92	-	5,290.92	124,471.10
483	A.0001550.345.001.002	HAR3C-Mill B Major Overhaul	202009	514,399.53	48,880.18	-	48,880.18	465,519.35
484	A.0001550.345.001.002	HAR3C-Mill B Major Overhaul	202009	514,399.53	48,880.18	-	48,880.18	465,519.35
485	A.0001586.125.001.002	JON2C-Rewind Exciter Rotor	201905	(0.05)	-	-	-	(0.05)
486	A.0001586.125.001.002	JON2C-Rewind Exciter Rotor	201905	(0.05)	-	-	-	(0.05)
487	A.0001560.140.001.002	NIC3C-Rpl Gas Firing Valve	202008	36,997.50	7,631.77	-	7,631.77	29,365.73
488	A.0001560.140.001.002	NIC3C-Rpl Gas Firing Valve	202008	36,997.50	7,631.77	-	7,631.77	29,365.73
489	A.0001550.421.001.001	HAR2C Gen Stator Rewind	202005	2,923,890.46	143,040.73	-	143,040.73	2,780,849.73
490	A.0001550.421.001.001	HAR2C Gen Stator Rewind	202005	2,923,890.46	143,040.73	-	143,040.73	2,780,849.73
491	A.0001555.433.001.002	TOL1C-Rpl RH Loops	202005	1,516,955.90	49,457.96	-	49,457.96	1,467,497.94
492	A.0001555.433.001.002	TOL1C-Rpl RH Loops	202005	1,516,955.90	49,457.96	-	49,457.96	1,467,497.94
493	A.0001555.420.001.002	TOL1C-A B xfmr X winding bushings	202005	165,254.68	11,457.49	-	11,457.49	153,797.19
494	A.0001555.420.001.002	TOL1C-A B xfmr X winding bushings	202005	165,254.68	11,457.49	-	11,457.49	153,797.19
495	A.0001529.086.001.002	MAD0C-Rpl Septic System	202007	30,673.72	8,049.36	-	8,049.36	22,624.36
496	A.0001529.086.001.002	MAD0C-Rpl Septic System	202007	30,673.72	8,049.36	-	8,049.36	22,624.36
497	A.0001577.004.001.002	Hale-Xmnst Serving Generation	201906	\$ 57,500,607.45	\$ 3,183,567.73	\$ 258.74	\$ 3,183,826.47	\$ 54,316,780.98
498	A.0001577.004.001.002	Hale-Xmnst Serving Generation	201906	273,549.62	34,120.59	-	34,120.59	239,429.03
499	A.0001577.004.001.002	Hale-Xmnst Serving Generation	201906	273,549.62	34,120.59	-	34,120.59	239,429.03
500	A.0001402.006.001.002	J15 Crossroads Tolk Upgrade TX	202004	385,358.78	4,103.40	-	4,103.40	381,255.38
501	A.0001402.006.001.002	J15 Crossroads Tolk Upgrade TX	202004	385,358.78	4,103.40	-	4,103.40	381,255.38
502	A.0001563.017.001.002	Sagamore-Collector Sub South Land	202008	77,031.02	-	-	-	77,031.02
503	A.0001563.017.001.002	Sagamore-Collector Sub South Land	202008	77,031.02	-	-	-	77,031.02
504	A.0001402.009.001.002	K21 Deaf Smith Plant X Upgrade	202008	2,881,186.38	10,333.06	-	10,333.06	2,870,853.32
505	A.0001402.009.001.002	K21 Deaf Smith Plant X Upgrade	202008	2,881,186.38	10,333.06	-	10,333.06	2,870,853.32
506	A.0001402.015.001.002	Tolk J15 Return Line	202005	159.24	150.77	-	150.77	8.47
507	A.0001402.015.001.002	Tolk J15 Return Line	202005	159.24	150.77	-	150.77	8.47
508	A.0001402.011.001.002	K42 Tolk Tuco Upgrade	202004	1,006,814.77	15,775.90	-	15,775.90	991,038.87
509	A.0001402.011.001.002	K42 Tolk Tuco Upgrade	202004	1,006,814.77	15,775.90	-	15,775.90	991,038.87
510	A.0001563.016.001.002	Sagamore-Collector Sub North Land	202008	77,031.02	-	-	-	77,031.02
511	A.0001563.016.001.002	Sagamore-Collector Sub North Land	202008	77,031.02	-	-	-	77,031.02
512	A.0001577.005.001.002	Hale-Sub Serving Generation	201906	123,497.05	156.36	-	156.36	123,340.69
513	A.0001577.005.001.002	Hale-Sub Serving Generation	201906	123,497.05	156.36	-	156.36	123,340.69

	(A)	(B)	(C)	(D)	(E)	(F)
Line No.	WBS Level 4 Number	WBS Level 4 Description	Asset Class	Witness	Project Category	WBS Level 2 Number
514	A.0001402.013.001.002	J14 Eddy Co Crossroads Upgrade NM	Electric Transmission	Lyal	New Generation	A.0001402.013
515						A.0001402.013 Total
516	A.0001402.007.001.002	K91 Upgrades	Electric Transmission	Lyal	New Generation	A.0001402.007
517						A.0001402.007 Total
518						Total Electric Transmission
519						Grand Total

Southwestern Public Service Company

Energy Supply Capital Additions
July 1, 2019 through September 30, 2020

(A)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	
Line No.	WBS Level 4 Number	WBS Level 2 Description	In-Service Date	Additions (Jul 2019 Sep 2020)	XES Charges (Included in Column I)	Other Affiliate Charges (Included in Column I)	Total Affiliate Charges (Included in Column I)	Total Native Charges (Columns I less L) Within the Total Additions to Plant-in-Service Shown in Column (I)
514	A.0001.402.013.001.002	J14 Eddy Co Crossroads Upgrade NM	202004	194,243.67	298.18	-	298.18	193,945.49
515				194,243.67	298.18	-	298.18	193,945.49
516	A.0001.402.007.001.002	K91 Newhart Plant X Upgrade	202004	856,859.38	10,391.12	-	10,391.12	846,468.26
517				856,859.38	10,391.12	-	10,391.12	846,468.26
518				\$ 5,875,730.93	\$ 75,329.38	\$ -	\$ 75,329.38	\$ 5,800,401.55
519				\$ 63,800,501.05	\$ 3,265,325.23	\$ 258.74	\$ 3,265,583.97	\$ 60,534,917.08

Southwestern Public Service Company

Energy Supply Capital Additions
October 1, 2020 through December 31, 2020

(A) Line No.	(B) Asset Class	(C) Witness	(D) Project Category	(E) Additions to Plant-in-Service (Oct. 2020 - Dec. 2020)	(F) Total Affiliate Charges (Included in Column D)	(G) Project Description
October-December 2020 Budget Amounts						
1	Electric Production	Lytal	New Generation	\$ 804,023,366.48		Sagamore Wind Project - Electric Production - This portion of the Sagamore Wind Project contains the funding for the purchase of the wind turbines and all costs associated with the installation/erection of these turbines. Jones Units 3 - Replace Hot Gas Path - This project is to perform a Hot Gas Path Inspection ("HGPI"). This inspection/parts replacement is required based on the number of starts on the combustion turbine in accordance with the OEM requirements. Hale Wind Project - Electric Production - This portion of the Hale Wind Project is for the purchase and installation of three wind turbines that were damaged by storms. Tolk Unit 2 - Purchase and Install New Generator Step Up (GSU) Transformer - This project is to purchase and install a new GSU transformer to replace the spare that is currently installed on Tolk Station Unit 2 and return the spare to availability as a spare. The currently utilized spare is not large enough for this unit at full load. Since we are planning to convert the units to Synchronous Condensers, the larger transformer is necessary.
2	Electric Production	Lytal	Reliability & Performance Enhancement	12,075,513.53		
3	Electric Production	Lytal	New Generation	5,859,983.95		
4	Electric Production	Lytal	Reliability & Performance Enhancement	3,873,343.22		
5	Electric Production	Lytal	Reliability & Performance Enhancement	3,856,179.74		Jones Unit 0 - Effluent Water Optimization - This project is to maximize available effluent volume and at supplied pressure from the city of Lubbock. It consists of building an effluent storage pond and associated systems to operate it. This project is necessary due to Jones Station being forced to frequently derate the unit during the summer due to the city of Lubbock not being able to supply necessary amount and pressure of effluent flow. With this pond Jones station will be able to avoid costly derates due to low pond levels and supply itself with enough pressure to back flush the reactors when necessary to preserve equipment.

Southwestern Public Service Company

Energy Supply Capital Additions
October 1, 2020 through December 31, 2020

(A) Line No.	(B) Asset Class	(C) Witness	(D) Project Category	(E) Additions to Plant-in-Service (Oct. 2020 - Dec. 2020)	(F) Total Affiliate Charges (Included in Column D)	(G) Project Description
-----------------	--------------------	----------------	-------------------------	--	---	----------------------------

Cunningham Unit 4 - Replace Combustor Components - This project is to remove and replace the Cunningham unit 4 combustor fuel piping, fuel nozzles, cover plates, cross-flame tubes, combustor baskets, transition cylinders, transitions and seals. The Siemens guidelines recommend the maintenance interval is 800 equivalent starts or 16,000 equivalent hours on the Westinghouse Model 501D5A Turbine which this unit has reached. Cunningham's Title V air permit also requires that this inspection be performed when the unit reaches these thresholds. The permit states: "The manufacturer's recommended maintenance schedule shall be used to schedule and budget outages for regular maintenance."

Jones Unit 0 - Nitrogen Oxide (NOx) Controls Enhancement - This project is to add Siemens Gas Turbine Autonomous Control Optimization and active NOx adjustment in order to facilitate lower load operation while remaining within NOx operating limits. The addition of the new GT-ACO control logic will lower NOx emissions and allow for greater unit dispatch flexibility. This project will maintain North American Electric Reliability Corporation - Critical Infrastructure Protection requirements while also resolving the issue of the current server no longer supported by Microsoft.

Maddox Unit 1 - Replace Superheat Terminal Tubes - This project is to replace the 96 superheat outlet header terminal tubes and dissimilar metal welds (DMW). This project is necessary due to broken DMWs, notching and cracks being found during inspections.

Cunningham Unit 3&4- Combustion Turbine Controls Upgrade - This project is to upgrade the existing TD3000 servers, HMI's (human machine interface), and software with Siemens's latest versions of hardware and software. The existing control system are XP servers with Server 2003. The XP servers have not been supported for over five years. The obsolesces of the hardware puts the unit at risk if there are failures in the electronics.

6	Electric Production	Lytal	Reliability & Performance Enhancement	2,419,369.52		
7	Electric Production	Lytal	Environmental Compliance	1,673,355.66		
8	Electric Production	Lytal	Reliability & Performance Enhancement	1,119,851.44		
9	Electric Production	Lytal	Reliability & Performance Enhancement	1,105,309.76		

Southwestern Public Service Company

Energy Supply Capital Additions
October 1, 2020 through December 31, 2020

Line No.	(A) Asset Class	(B) Witness	(C) Project Category	(D) Additions to Plant-in-Service (Oct. 2020 - Dec. 2020)	(E) Total Affiliate Charges (Included in Column D)	(F) Project Description
10	Electric Production	Lytal	Reliability & Performance Enhancement	827,515.99		Plant X Unit 3 - Replace East Waterwall Tubes - This project will replace tubes on the east water wall of the X3 boiler and the east side of the bullnose. Testing was performed on the boiler which detected moderate to severe hydrogen damage on the majority of tubes on the east wall of the boiler. Based on this testing Technical Resources and Compliance (TRaC) has recommended replacement of the east water wall and bull nose tubes.
11	Electric Production	Lytal	Reliability & Performance Enhancement	733,287.12		Plant X Unit 4 - Replace Generator Step Up (GSU) Transformer - This project is to purchase and install a new GSU transformer. This project is necessary due to a failure in a substation breaker which led to a high current scenario at the GSU and the subsequent failure of the transformer. An oil sample was taken from the GSU Transformer and found high levels of combustible gases which damaged the transformer.
12	Electric Production	Lytal	Reliability & Performance Enhancement	718,276.66		Plant X Unit 0 - Install a Floating Pump in the Wastewater Disposal Lake - This project will install a floating pump in the wastewater disposal lake with new discharge pipe line to the southeast irrigation system paralleling the existing irrigation discharge piping including electrical supply and controls for pump operation. This project is necessary due to the installation of the Tolk synchronous condensers which will require on-site disposal of Plant X blowdown. This will prevent having to scale back Plant X generation to maintain environmentally regulated wastewater pond freeboard limits.
13	Electric Production	Lytal	Reliability & Performance Enhancement	711,745.80		Harrington Unit 0 - Basement Winterization - This project is to replace heaters in the basement. With the increase in cycling units for economic purposes, it is necessary to maintain heat on critical equipment during cold weather. Even with a unit on line with other units off, the heating capacity of the existing heaters are marginal and equipment can freeze.

Southwestern Public Service Company

Energy Supply Capital Additions
October 1, 2020 through December 31, 2020

(A)	(B)	(C)	(D)	(E)	(F)
Line No.	Asset Class	Witness	Project Category	Additions to Plant-in-Service (Oct. 2020 - Dec. 2020)	Total Affiliate Charges (Included in Column D)
					Project Description

14	Electric Production	Lytal	Reliability & Performance Enhancement	702,058.95	Tolk Unit 2 - Rebuild Mill B Gearbox - This project is to perform gearbox rebuild on Unit 2, Mill B. This project is due to the age of Mill B and failure rates so far on gearbox components which have been in service since 1985. The manufacturer claims the life of the gearbox is 30 years with proper maintenance and inspections. This project will maintain Mill B at optimal levels which will maintain our coal fineness and mill reliability keeping the mills in optimal condition which not only reduces emissions but can also reduce slagging of the boiler by keeping particle size small.
15	Electric Production	Lytal	Reliability & Performance Enhancement	653,177.88	Tolk Unit 2 - Replace Burners - This project is to replace two elevations of the Tolk Unit 2 burner assemblies. This project is necessary due to worn and damaged burner assemblies. Not replacing eroded and worn out burners could result in reduced unit availability and increased equivalent forced outage rate or a forced outage for repairs. Maddox Unit 1 - Replace the #2 High Pressure Feedwater Heater (HP FWH) - This project is to replace the #2 HP FWH. This project is necessary due to repeated tube leaks and failure events. Several tubes have been plugged which causes increased flow rates in teh remaining tubes. This increased flow rate causes increased vibration and accelerates the damage mechanism in the unplugged tubes. Harrington - Small Routines - This expenditure represents a rroup of minor 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.
16	Electric Production	Lytal	Reliability & Performance Enhancement	649,135.53	Tolk Unit 2 - Replace TK32 Oil Circuit Breaker - This project will replace the Tolk Unit 2 230kV Westinghouse oil circuit breaker, TK32. This project is required due to the Westinghouse oil circuit breaker becoming obsolete and replacement parts are no longer supported by the manufacturer.
17	Electric Production	Lytal	Reliability & Performance Enhancement	615,538.17	
18	Electric Production	Lytal	Reliability & Performance Enhancement	523,089.72	

Southwestern Public Service Company

Energy Supply Capital Additions
October 1, 2020 through December 31, 2020

Line No.	(A) Asset Class	(B) Witness	(C) Project Category	(D) Additions to Plant-in-Service (Oct. 2020 - Dec. 2020)	(E) Total Affiliate Charges (Included in Column D)	(F) Project Description
----------	--------------------	----------------	-------------------------	--	---	----------------------------

Maddox Unit 1 - Upgrade Distributed Control System (DCS) operator Station

- This project is to upgrade two Application Workstations, five Workstation Processors, two domain servers and three remote operator stations. This will include upgrading 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.

523,038.25

Reliability & Performance Enhancement

Lytal

Electric Production

19

Tolk - Small Routines - This expenditure represents a group of minor 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.

464,250.03

Reliability & Performance Enhancement

Lytal

Electric Production

20

Jones - Small Routines - This expenditure represents a group of minor 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.

409,377.97

Reliability & Performance Enhancement

Lytal

Electric Production

21

Tolk Unit 2 - Replace Mill F Gearbox and Journals - This is a project for performing a gearbox and journals rebuild on Unit 2 Mill F. This project is due to the age of Mill F and failure rates so far on gearbox components.

Our journal parts are wearing out and need to be replaced. The major parts of this mill have been in service since 1985. The manufacturer claims the life of the gearbox is 30 years with proper maintenance and inspections.

This project will maintain Mill B at optimal levels which will maintain our coal fineness and mill reliability keeping the mills in optimal condition which not only reduces emissions but can also reduce slagging of the boiler by keeping particle size small.

Tolk Unit 1 - Replace TK02 Oil Circuit Breaker - This project will

replace the Tolk Unit 1 230kV Westinghouse oil circuit breaker, TK02. This project is necessary due to the Westinghouse oil circuit breaker having become obsolete and replacement parts are no longer supported by the manufacturer.

387,423.94

Reliability & Performance Enhancement

Lytal

Electric Production

22

384,001.40

Reliability & Performance Enhancement

Lytal

Electric Production

23

Southwestern Public Service Company

Energy Supply Capital Additions
October 1, 2020 through December 31, 2020

Line No.	(A) Asset Class	(B) Witness	(C) Project Category	(D) Additions to Plant-in-Service (Oct. 2020 - Dec. 2020)	(E) Total Affiliate Charges (Included in Column D)	(F) Project Description
24	Electric Production	Lytal	Reliability & Performance Enhancement	359,001.25		Plant X Unit 1 - Turbine Steam Shield - This project is to replace the Steam Shield / Water Shield in the Turbine. Recently a failure in the steam shield / water seal which must be replaced in order for the unit to run.
25	Electric Production	Lytal	Reliability & Performance Enhancement	342,365.28		Nichols - Small Routines - This expenditure represents a group of minor 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.
26	Electric Production	Lytal	Reliability & Performance Enhancement	341,336.24		Plant X - Small Routines - This expenditure represents a group of minor 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.
27	Electric Production	Lytal	Reliability & Performance Enhancement	336,642.77		Tolk Unit 0 - Replace Water Treatment Building Roof - This project is to remove and replace existing roof on water treatment building. The water treatment building roof was inspected by the Garland Company as part of a roof asset management program. This inspection revealed several issues and replacement is required.
28	Electric Production	Lytal	Reliability & Performance Enhancement	336,519.11		Jones Unit 3 - Generator Pole Crossover - This project is to replace the existing generator rotor pole crossover with a new design. This work is necessary due to the current design allowing for pole crossover separation due to cycling of the unit which can cause mechanical stresses and initiate cracks.
29	Electric Production	Lytal	Reliability & Performance Enhancement	302,843.84		Cunningham Unit 2 - North Boiler Feed Pump (BFP) Element - This project is to rebuild the North BFP Element. The North BFP Rotating Element has experienced an unexpected failure which resulted in high vibration and loss of packing allowing steam to escape from both the inboard and outboard ends.

Southwestern Public Service Company

Energy Supply Capital Additions
October 1, 2020 through December 31, 2020

(A)	(B)	(C)	(D)	(E)	(F)
Line No.	Asset Class	Witness	Project Category	Additions to Plant-in-Service (Oct. 2020 - Dec. 2020)	Total Affiliate Charges (Included in Column D)
					Project Description

Tolk Unit 0 - Replace Gas Line at Plant X - This project is to replace the 12 inch gas line at Plant X that is impacted by concrete and other portions with degraded coating indications and possible corrosion. The 12 inch water line supplying the fire hydrant installed on top of the gas pipeline will be relocated as required. Based on an External Corrosion Direct Assessment (ECDA) Indirect Inspection Report dated May 14, 2019, there were a total of three indications requiring additional inspections identified in the surveyed High Consequence Area (HCA). The Xcel ECDA procedure states that ECDA assessment regions which contain monitored indications but no immediate or scheduled indications shall have one direct examination conducted at the most severe monitored indication to provide evidence that the ECDA process has been successful. However, the required location was found to be encased in concrete and not accessible for inspection. Due to a lack of ability to inspect, the gas line and water line above the gas line needs to be removed and replaced.

Harrington Unit 1 - Harrington Unit 1 cooling tower sustained significant damage during a high wind event. Cooling tower stacks, blades, hubs, and structure were damaged and had to be replaced on the unit.

Nichols Unit 1 - Replace Unit 1 Voltage Regulator - This project is to replace the WDR-2000 Automatic Voltage Regulator. The Excitation and Automatic Voltage Regulation (AVR) equipment is required to physically operate the generating units. This project is necessary due to replacement parts becoming unavailable and vendors no longer providing testing or repair of the WDR-2000 control module.

Tolk Unit 2- Replace Submerged Scraper Conveyor (SSC) Chain - This project is to replace the complete SSC chain. Due to the more frequent ash loading events of the SSC since beginning low NOx firing and new coutant slope tubes the bottom ash chain stretches and wears more than in the past.

30 Electric Production Lytal Reliability & Performance Enhancement 292,614.44

31 Electric Production Lytal Reliability & Performance Enhancement 286,094.31

32 Electric Production Lytal Reliability & Performance Enhancement 271,143.13

33 Electric Production Lytal Reliability & Performance Enhancement 260,408.25

Southwestern Public Service Company

Energy Supply Capital Additions
October 1, 2020 through December 31, 2020

(A)	(B)	(C)	(D)	(E)	(F)
Line No.	Asset Class	Witness	Project Category	Additions to Plant-in-Service (Oct. 2020 - Dec. 2020)	Total Affiliate Charges (Included in Column D)
					Project Description
34	Electric Production	Lytal	Reliability & Performance Enhancement	259,799.34	Tolk Unit 1 - Replace UPS Inverters - This project is to replace the current UPS Inverters. The current "Ferrups-BEST" inverters have no indication if they are functioning properly except by performing an inverter test which, because of a risk of tripping the unit while testing, requires an outage. Otherwise, operational issues with the inverter will only be discovered after AC power is already lost. A momentary failure can cause a unit to trip off-line which could result in a production loss. To prevent the repeat of this failure, it is necessary to replace the Single Conversion Ferro-Resonant Inverters with Double Conversion Inverters. Tolk Unit 2 - Replace Motor Driven Boiler Feed Pump (MDBFP) Element - This project is to rebuild the MDBFP Element. This MDBFP Element must be rebuilt in order to ensure the unit continues to run. Tolk Unit 0 - Upgrade Throttle Valves and Intercept Valves - This project is to upgrade existing 2 throttle valves and 4 intercept valves. These valves are original and are recommended to be rebuilt on a three year interval per the manufacturer. This upgrade will extend the rebuild schedule to 6 years. Maddox Unit 1 - Upgrade Continuous Emission Monitoring System (CEMS) Foxboro Systems - This project is to upgrade the CEMS Foxboro Systems and install power supplies and associated hardware to provide more reliability to CEMS Reporting. This is necessary due to the current computer hard drives, motherboards and power supplies are failing. New components have become inaccessible and refurbishments have proven to be unreliable. Tolk Unit 2 - Replace UPS Inverters - This project is to replace the current UPS Inverters. The current "Ferrups-BEST" inverters have no indication if they are functioning properly except by performing an inverter test which, because of a risk of tripping the unit while testing, requires an outage. Otherwise, operational issues with the inverter will only be discovered after AC power is already lost. A momentary failure can cause a unit to trip off-line which could result in a production loss. To prevent the repeat of this failure, it is necessary to replace the Single Conversion Ferro-Resonant Inverters with Double Conversion Inverters. Harrington Unit 2 - Main Circulating Pump Motor - The motor on this pump failed during service which required a rewind of the motor and repairs to the shaft of the motor.
35	Electric Production	Lytal	Reliability & Performance Enhancement	255,202.63	
36	Electric Production	Lytal	Reliability & Performance Enhancement	251,551.04	
37	Electric Production	Lytal	Environmental Compliance	225,904.96	
38	Electric Production	Lytal	Reliability & Performance Enhancement	220,537.38	
39	Electric Production	Lytal	Reliability & Performance Enhancement	218,520.64	

Southwestern Public Service Company

Energy Supply Capital Additions
October 1, 2020 through December 31, 2020

(A)	(B)	(C)	(D)	(E)	(F)
Line No.	Asset Class	Witness	Project Category	Additions to Plant-in-Service (Oct. 2020 - Dec. 2020)	Total Affiliate Charges (Included in Column D)
					Project Description
40	Electric Production	Lytal	Reliability & Performance Enhancement	216,611.84	Maddox - Small Routines - This expenditure represents a group of minor 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 & Performance Enhancement	213,046.37	Cunningham - Small Routines - This expenditure represents a group of minor 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.
42	Electric Production	Lytal	Reliability & Performance Enhancement	211,600.75	Jones Unit 3 - Aerodynamic Upgrade - This project will modify the existing stack to improve the exhaust flow characteristics. Due to differences in how this stack was initially designed and how the plant is currently running, there is resistance to the flow of the exhaust gases which is causing the stack liner to be torn apart and pieces are liberating themselves from the stack.
43	Electric Production	Lytal	Reliability & Performance Enhancement	210,534.27	Harrington Unit 1 - Startup Boiler Feed Pump Motor Rewind - This project is to rewind the failed motor windings. This motor recently shorted to ground. Testing revealed the fault occurred in the motor windings. This is a critical motor with no redundancy.
44	Electric Production	Lytal	Reliability & Performance Enhancement	202,563.88	Tolk Unit 2 - Replace and Upgrade Diesel Generator Controls - This project is to Replace/Upgrade the Tolk Unit-2 Emergency Diesel Generator(EDG) Control System. Tolk Unit-2 has two separate 500KW generators supplying the emergency bus to provide power for the protection of the turbine and other plant equipment. The current control equipment is original equipment installed in 1983 and is obsolete. Parts for maintenance are no longer available and the controls are not supported by the manufacturer. The current controls do not provide reliable synchronization with the emergency electrical bus which prevents complete testing of the emergency generator system. The inability of this generator to perform as required could result in serious safety hazards within the plant and significant damage to the turbine and other plant equipment. If there was a failure, there would be issues due to the lead time for a replacement control system being 18-20 weeks upon issue of purchase order.

Southwestern Public Service Company

Energy Supply Capital Additions
October 1, 2020 through December 31, 2020

Line No.	(A) Asset Class	(B) Witness	(C) Project Category	(D) Additions to Plant-in-Service (Oct. 2020 - Dec. 2020)	(E) Total Affiliate Charges (Included in Column D)	(F) Project Description
45	Electric Production	Lytal	Reliability & Performance Enhancement	192,899.85		Cunningham Unit 0 - Replace Fuel Gas Press Control Valve - This project will Re-design and Replace the Natural Gas Control Valve (pressure reducing station) to Cunningham Unit 1 and Cunningham Unit 2 Boilers. The continued reduction in demand for generation from Cunningham Unit 1 and Cunningham Unit 2, in addition to frequent cycling requirements, has resulted in damage to the natural gas pressure control valve that supplies both units.
46	Electric Production	Lytal	Reliability & Performance Enhancement	182,261.39		Harrington Unit 0 - Install Continuous Emissions Monitoring (CEMs) Compressor - This Project is the installation of a new compressor for the CEMS instrument air system. Installing a new air compressor to be primary air supply for CEMS will help reduce the need to run multiple sootblower air compressors (SBAC) and add needed redundancy. This project is part of an overarching effort to reduce auxiliary load by allowing the plant to run on one SBAC, thus saving on CO2.
47	Electric Production	Lytal	Reliability & Performance Enhancement	173,751.14		Tolk Unit 1 - Refurbish Center Boiler Circulating Pump - This project is to rebuild the center Ingersoll Rand 435 HP boiler circulating pump. The Tolk Unit 1 boiler is designed with three boiler circulating pumps to insure proper circulation of water in the furnace wall. These pumps are sized to allow full load operations using two pumps, and only 60% load is permissible during single pump operation. In order to ensure Tolk Unit 1 can run at full load, this pump needs to be rebuilt.
48	Electric Production	Lytal	Environmental Compliance	170,300.30		Cunningham Unit 3 Continuous Emission Monitoring System (CEMS) Foxboro Systems - This project is to upgrade the CEMS Foxboro Systems and install power supplies and associated hardware to provide more reliability to CEMS Reporting. These are necessary due to the current computer hard drives, motherboards and power supplies are failing. New components have become inaccessible and refurbishments have proven to be unreliable.
49	Electric Production	Lytal	Reliability & Performance Enhancement	168,835.57		Jones Unit 1 - Replace Superheat (SH) Header Sealbox - This project is to replace the seal boxes in the SH header box. These sealboxes will be 50 years old and due to ineffective sealing of the Sealbox, we are experiencing hot spots on the boiler and thus need to replace the Sealbox and the refractory.
50	Electric Production	Lytal	New Generation	166,968.67		Sagamore Wind Project - Land and Land Rights - This portion of the Sagamore Wind Project contains the funding for the Land purchases and payments to Land Owners.

Southwestern Public Service Company

Energy Supply Capital Additions
October 1, 2020 through December 31, 2020

(A)	(B)	(C)	(D)	(E)	(F)
Line No.	Asset Class	Witness	Project Category	Additions to Plant-in-Service (Oct. 2020 - Dec. 2020)	Total Affiliate Charges (Included in Column D)
					Project Description
51	Electric Production	Lytal	Reliability & Performance Enhancement	160,210.06	Nichols Unit 3 - Replace Boiler Building Elevator - This project is to replace the motor, mechanical drive, car, cables, sensors, and controls on the Nichols 3 boiler building elevator. This elevator frequently breaks down, sometimes with personnel inside. Without a reliable elevator, delivering equipment such as welders, heat treaters, and heavy toolboxes would require a crane rental and a critical lift. Additionally, should personnel become injured and/or immobilized on the boiler without the elevator in service, extracting the person(s) will be significantly slower and more hazardous. Tolk Unit 0 - Replace Water Well Pumps - This project is to replace approximately nine failed water well pumps annually. With over 70 water wells, approximately nine can be expected to fail annually. Particular well failure is unpredictable due to environmental factors. Lightning strikes, motor winding failures, and water level fluctuations all contribute to well failure. Average water level decline has been approximately two feet per year. Pumps, motors, and pipe sizing has to be changed to meet new performance capabilities. Pump and motor replacement is required to maintain adequate water volume for plant requirements.
52	Electric Production	Lytal	Reliability & Performance Enhancement	159,651.49	Jones Unit 3 - Replace Evaporative Media - This project will replace the evaporative cooler media and drift eliminator media. This media is showing signs of deterioration and signs of plugging. The expected life of media is about 5-8 years. After 5 years of service, the evaporative media becomes calcified. When this happens, less water is absorbed onto the media and there is more risk for water carryover into the compressor. This could lead to erosion and catastrophic failure of the compressor first stage blades as well as decreasing the performance of the evaporative cooler. Nichols Unit 0 - Replace Reverse Osmosis (RO) 1st and 2nd Pass Pump and Motor - This project is to replace the 1st and 2nd pass RO pump and motor. This pump recently failed and caused metal shards from the pump impellers to travel into the RO membranes and damaged them. The RO system is currently no longer able to supply treated water to Harrington and Nichols. Until the repairs are made, Nichols station is renting a portable RO system.
53	Electric Production	Lytal	Reliability & Performance Enhancement	158,747.48	
54	Electric Production	Lytal	Reliability & Performance Enhancement	152,126.86	

Southwestern Public Service Company

Energy Supply Capital Additions
October 1, 2020 through December 31, 2020

(A)	(B)	(C)	(D)	(E)	(F)
Line No.	Asset Class	Witness	Project Category	Additions to Plant-in-Service (Oct. 2020 - Dec. 2020)	Total Affiliate Charges (Included in Column D)
					Project Description

Jones Unit 0 - Replace Section 13 Pivot - This project is to replace the pivot on section 13. The existing pivot has sprung many leaks over the years and the number of new leaks continues to increase in frequency and are about to reach a point where they will not be repairable. The wastewater permit for Jones Station requires the appropriate distribution of wastewater. As these leaks continue to increase, the water distribution will no longer be acceptable and will not comply with the permit.					
55	Electric Production	Lytal	Reliability & Performance Enhancement	145,229.30	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. Tolk Unit 0 - Install Gas Chromatograph - This project is to Install a gas chromatograph to enhance gas measurement for environmental emissions. Chromatograph analyzing gas stream data is necessary to get accurate gas flow measurement for Tolk and Plant X. Plant X Unit 0 - Inverter Replacement - This project is to replace the current UPS Inverters. The current "Ferrups-BEST" inverters have no indication if they are functioning properly except by performing an inverter test which, because of a risk of tripping the unit while testing, requires an outage. Otherwise, operational issues with the inverter will only be discovered after AC power is already lost. A momentary failure can cause a unit to trip off-line which could result in a production loss. To prevent the repeat of this failure, it is necessary to replace the Single Conversion Ferro-Resonant Inverters with Double Conversion Inverters. If the current inverter fails the plant will not have emergency backup power on the general plant bus.
56	Electric Production	Lytal	Reliability & Performance Enhancement	134,165.33	
57	Electric Production	Lytal	Reliability & Performance Enhancement	122,665.42	
58	Electric Production	Lytal	Reliability & Performance Enhancement	113,904.94	

Southwestern Public Service Company

Energy Supply Capital Additions
October 1, 2020 through December 31, 2020

(A)	(B)	(C)	(D)	(E)	(F)
Line No.	Asset Class	Witness	Project Category	Additions to Plant-in-Service (Oct. 2020 - Dec. 2020)	Total Affiliate Charges (Included in Column D)
					Project Description
59	Electric Production	Lytal	Reliability & Performance Enhancement	103,336.33	
60	Electric Production	Lytal	Environmental Compliance	90,112.19	
61	Electric Production	Lytal	Reliability & Performance Enhancement	20,051.03	
62	Electric Production	Lytal	Reliability & Performance Enhancement	3,480.40	
63	Electric Production	Lytal	New Generation	(75.36)	
64	Total Electric Production			\$ 852,341,654.81	\$ 47,194,421.81
65					
66					
67	Electric Transmission	Lytal	New Generation	\$ 26,606,047.81	

October-December 2020 Budget Amounts

Sagamore Wind Project - Sub Serving Generation - This portion of the Sagamore Wind Project is for the purchase and installation of the materials and equipment related to the Sub Station supporting the Sagamore Wind Project.

Cunningham Unit 4 - Install Online Vibration Monitoring System - This project is to integrate the Cunningham Unit #4 Turbine-Generator vibration data into the plant wide online monitoring server. This vibration monitoring and analysis system will be used in conjunction with the existing Bently Nevada model 3500 vibration protection racks currently located on Unit #4. The ability to analyze critical vibration parameters on a real time basis significantly improves the capability of personnel to provide direction for scheduled maintenance outages and unscheduled shutdowns helping improve EAF and UOR on our monitored units.

Harrington - Small Routines - This expenditure represents a group of minor 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.

Hale - Small Routines - This expenditure represents a group of minor projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Hale Wind Farm.

GMS0C - Small Routines - This expenditure represents a group of minor projects that consist of replacement of equipment, tools, lab instruments and training materials needed for general (i.e. non-plant specific) operational support.

Hale - Small Routines - This expenditure represents a group of minor projects that consist of replacement or refurbishment of plant equipment needed to maintain the continued reliable operation and performance of the Hale Wind Farm.

Southwestern Public Service Company

Energy Supply Capital Additions
October 1, 2020 through December 31, 2020

(A)	(B)	(C)	(D)	(E)	(F)
Line No.	Asset Class	Witness	Project Category	Additions to Plant-in-Service (Oct. 2020 - Dec. 2020)	Total Affiliate Charges (Included in Column D)
					Project Description

Tolk Unit 1 - Install Synchronous Condenser This project is to convert the existing generator to run as an electric motor with static excitation. This project is necessary due to Tolk station having a limited life left due to the water availability of the Ogallala aquifer. Resource planning has determined the lowest cost option for the system to maintain Tolk as a summer peaking plant (winter emergency operation only) as long as possible. The models show the plant can run in a peaking only capacity until approximately 2032. Transmission has determined that the system voltage would become unstable if at least one Tolk unit is not running in certain conditions. Therefore, they recommend that both Unit 1 and Unit 2 be converted to Synchronous Condenser (SC) to assure that one unit is always available. With the addition of wind to the system, the SC operations will also support the system stability by running in SC mode during high wind days. This will help the reactive power needs of the system.

Tolk Unit 2 - Install Synchronous Condenser This project is to convert the existing generator to run as an electric motor with static excitation. This project is necessary due to Tolk station having a limited life left due to the water availability of the Ogallala aquifer. Resource planning has determined the lowest cost option for the system to maintain Tolk as a summer peaking plant (winter emergency operation only) as long as possible. The models show the plant can run in a peaking only capacity until approximately 2032. Transmission has determined that the system voltage would become unstable if at least one Tolk unit is not running in certain conditions. Therefore, they recommend that both Unit 1 and Unit 2 be converted to Synchronous Condenser (SC) to assure that one unit is always available. With the addition of wind to the system, the SC operations will also support the system stability by running in SC mode during high wind days. This will help the reactive power needs of the system.

Sagamore Wind Project - Transmission Serving Generation - This portion of the Sagamore Wind Project is for the purchase and installation of the materials and equipment related to the 345KV transmission line to support the Sagamore Wind Project.
Sagamore Wind Project - Network Upgrades - This portion of the Sagamore Wind Project is for the upgrade of the transmission grid to support the Sagamore Wind Project.

10,421,155.18

Reliability & Performance
Enhancement

Lytal

Electric Transmission

9,281,808.83

Reliability & Performance
Enhancement

Lytal

Electric Transmission

9,200,054.92

New Generation

Lytal

Electric Transmission

8,663,255.25

New Generation

Lytal

Electric Transmission

Southwestern Public Service Company

Energy Supply Capital Additions
October 1, 2020 through December 31, 2020

(A)	(B)	(C)	(D)	(E)	(F)
Line No.	Asset Class	Witness	Project Category	Additions to Plant-in-Service (Oct. 2020 - Dec. 2020)	Total Affiliate Charges (Included in Column D)
72	Electric Transmission	Lytal	New Generation	3,778,559.30	
73	Electric Transmission	Lytal	New Generation	1,984,555.54	
74	Total Electric Transmission			\$ 69,935,436.83	\$ 862,602.44
75					
76					
October-December 2020 Budget Amounts					
77	Electric General Plant	Lytal	Reliability & Performance Enhancement	\$ 429,217.63	
78	Electric General Plant	Lytal	Reliability & Performance Enhancement	66,312.02	
79	Electric General Plant	Lytal	Reliability & Performance Enhancement	40,942.02	
80	Electric General Plant	Lytal	Reliability & Performance Enhancement	27,908.83	
81	Electric General Plant	Lytal	Reliability & Performance Enhancement	22,096.55	
82	Electric General Plant	Lytal	Reliability & Performance Enhancement	13,447.41	

Sagamore Wind Project - Crossroads Network Upgrades - This portion of the Sagamore Wind Project is for the upgrade of the transmission grid to support the Sagamore Wind Project.

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 installing an overhead BUS to support the Hale Wind Project.

GMS0C - Small Routines - This expenditure represents a group of minor projects that consist of replacement of equipment, tools, lab instruments and training materials needed for general (i.e. non-plant specific) operational support.

Harrington - Small Routines - This expenditure represents a group of minor 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.

Jones - Small Routines - This expenditure represents a group of minor 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.

Nichols - Small Routines - This expenditure represents a group of minor 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.

Plant X - Small Routines - This expenditure represents a group of minor 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.

Cunningham - Small Routines - This expenditure represents a group of minor 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
October 1, 2020 through December 31, 2020

(A)	(B)	(C)	(D)	(E)	(F)	
Line No.	Asset Class	Witness	Project Category	Additions to Plant-in-Service (Oct. 2020 - Dec. 2020)	Total Affiliate Charges (Included in Column D)	
Project Description						
83	Electric General Plant	Lytal	Reliability & Performance Enhancement	4,451.59	Maddox - Small Routines - This expenditure represents a group of minor 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. Tolk - Small Routines - This expenditure represents a group of minor 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.	
84	Electric General Plant	Lytal	Reliability & Performance Enhancement	864.02		
85	Total Electric General Plant			\$ 605,240.07		\$ 42,963.59
86						
87	Grand Total			\$ 922,882,331.71		\$ 48,099,987.83



RECEIVED

2021 JAN -4 AM 9:46

PUBLIC UTILITY COMMISSION
FILING CLERK

790 S. Buchanan St.
Amarillo, TX 79101

January 4, 2021

Central Records Division
Public Utility Commission of Texas
1701 N. Congress Avenue
P. O. Box 13326
Austin, Texas 78711-3326

RE: Docket No. 48344 – *Compliance Docket for Docket No. 46936 – Commencement of Commercial Operation of Sagamore Wind Generating Facility approved in Docket No. 46936.*

Southwestern Public Service Company (SPS) hereby files this confirmation letter marking the commencement of Commercial Operation of all turbines at the Sagamore Wind Generating Facility, effective as of December 31, 2020.

Thank you for your attention to this filing.

Sincerely,

Jeremiah W. Cunningham

Jeremiah W. Cunningham
Manager, Rate Cases

6



1800 Larimer St, Denver, CO 80202

APPENDIX E TO GIA

Commercial Operation Date

December 31, 2020

Tessie Kentner
Managing Attorney
Southwest Power Pool, Inc.
201 Worthen Drive
Little Rock, AR 72223-4936

Manager, Transmission Business Relations
Xcel Energy Services Inc.
414 Nicollet Mall
Minneapolis, MN 55401
612-330-6773 or 1-800-328-8226 ext. 0

Re: Southwestern Public Service Company (GEN-2016-123, -124, and -125)
Generating Facility

Dear Ms. Kentner and Mr. Moeller:

On December 30, 2020, Southwestern Public Service Company ("SPS") has completed Trial Operation of the Sagamore Wind generating facility. This letter confirms that Southwestern Public Service Company commenced Commercial Operation of the Sagamore Wind Generating Facility, effective as of **December 31, 2020**. Capitalized terms used and not defined in this letter have the meanings set forth in the Generator Interconnection Agreement among Southwest Power Pool, Inc., Southwestern Public Service Company (Interconnection Customer) and Southwestern Public Service Company (Transmission Owner) dated as of March 3, 2020.

Thank you.

A handwritten signature in black ink, appearing to read 'Joe Taylor'.

Joe Taylor
Manager, Transmission Access
Xcel Energy Services Inc.
1800 Larimer Street, Suite 1000
Denver, CO 80202
Phone: (303) 571-7462
Email: joseph.c.taylor@xcelenergy.com

Attachment ML-RR-4(V)(HS)

Pages 1 through 1

of

Attachment ML-RR-4(V)(HS)

**Master Supply Agreement between Capital
Services LLC and Vestas-American Wind
Technology, Inc., dated as of September 15,
2016**

is

**Highly-Sensitive Protected
Information**

**HIGHLY-SENSITIVE PROTECTED MATERIALS
PROVIDED PURSUANT TO PROTECTIVE ORDER**

Attachment ML-RR-5(V)(HS)

**Pages 1 through 1
of
Attachment ML-RR-5(V)(HS)
Turbine Supply Agreement between
Southwestern Public Service Company and
Vestas-American Wind Technology, Inc.,
dated as of June 15, 2018**

**is
Highly-Sensitive Protected
Information**

**HIGHLY-SENSITIVE PROTECTED MATERIALS
PROVIDED PURSUANT TO PROTECTIVE ORDER**

SALE OF COMPONENTS AGREEMENT

This SALE OF COMPONENTS AGREEMENT, including Annexes attached hereto and made a part hereof, is made and entered into as of March 17, 2017, by and between CAPITAL SERVICES, LLC, a Delaware limited liability company (hereinafter "Seller") and SOUTHWESTERN PUBLIC SERVICE COMPANY, a New Mexico Corporation (hereinafter "Buyer"); sometimes collectively referred to as the "Parties" or singularly as a "Party" (the "Agreement").

RECITALS

- A. Seller has acquired, on behalf of its Affiliates (including Buyer), certain wind turbine components (the "PTC Components") from Vestas American Wind Technology, Inc. (hereinafter "Supplier") pursuant to that certain Master Supply Agreement between Seller and Supplier, dated as September 15, 2016 (the "MSA");
- B. Buyer intends to develop, from time to time, wind turbine electric generating facilities (each, a "Project") and, in connection with each particular Project, to enter into a Wind Turbine Supply Agreement with Supplier (the "Project TSA") substantially in the form attached to the MSA as Exhibit F;
- C. Buyer desires to acquire from Seller, from time to time, such portion of the PTC Components as will be required for a particular Project (the "Project PTC Components"); and
- D. The Parties desire to enter into this Agreement to provide for the terms of sale by Seller and purchase by Buyer of the Project PTC Components.

NOW, THEREFORE, in consideration of the covenants, promises, and representations set forth herein and the Agreement and for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties hereby agree as follows:

- 1. Capitalized Terms. Unless the context hereof shall otherwise require, capitalized terms used in this Agreement and not otherwise defined herein shall have the meanings set forth in MSA.
- 2. Purchase Order. Buyer shall have the right to provide to Seller a purchase demand notice (the "Purchase Order") substantially in the form of Annex 1 hereto, specifying the Project PTC Components which Buyer is prepared to acquire in connection with a Project, the Delivery Point and the indicative Delivery date (the "Delivery Date").
- 3. Confirmation. Seller shall respond to such Purchase Order by issuing a "Confirmation" in the form of Annex 2 hereto (a) confirming Seller's obligation to sell to Buyer the Project PTC Components specified in the Purchase Order on the terms of this Agreement and (b) providing, with respect to each particular component of the Project PTC Components to be sold pursuant to such Purchase Order: (i) the serial number, (ii) the date of Seller's payment to Supplier, (iii) the PTC Transfer date under the MSA, (iv) price paid by Seller to Supplier for such equipment pursuant to the MSA (as reflected in Exhibit A or Exhibit B, as applicable, to the MSA) and (v) the allocable portion of the

estimated Incremental Costs (based on the indicative Delivery Date indicated in the Purchase Order) (the sum of items (iv) and (v), the "Confirmation Price"). The "Incremental Costs" of the Project PTC Components shall mean: (1) the Storage and Maintenance Fee for the period from the date of the PTC Transfer of such Project PTC Components through the Delivery Date, (2) the cost of insuring such Project PTC Components for the period from the date of the PTC Transfer of such equipment through the Delivery Date, and (3) any other reasonable documented costs incurred by Seller in connection with the acquisition of such Project PTC Components from Supplier and ownership thereof.

4. Purchase Price. The purchase price with respect to each component of the Project PTC Components sold pursuant to this Agreement (the "Purchase Price") shall equal: (a) the Confirmation Price (as adjusted for the actual Delivery Date pursuant to the Bill of Sale), subject to any adjustment required by an applicable federal or state governmental authority in order to comply with the Applicable Laws; and (b) a "Carrying Charge," which shall be calculated by (i) applying Buyer's allowance for funds used during construction ("AFUDC") rate(s) in effect during the period between the time Seller made payments to Supplier for the Project PTC Components that Seller is selling to Buyer under this Agreement and the time those Project PTC Components are redelivered to Buyer under this Agreement (the "Carrying Period") to (ii) the Purchase Price for (iii) each month or partial month in the Carrying Period, provided that the Purchase Price used in the calculation for a particular month shall be adjusted to reflect the Incremental Costs and the portion of the Carrying Charge incurred through that month.
5. Delivery and Payment. The risk of loss and care, custody and control of each particular component of the Project PTC Components shall pass to Buyer upon Delivery of such component to the Delivery point. Upon Delivery of all of the Project PTC Components identified in the Confirmation to the Delivery Point, (a) Seller shall sell, and Buyer shall purchase, the Project PTC Components and (b) the Parties shall execute and deliver a Bill of Sale therefor in the form of Annex 3 hereto, and (c) the title to the Project PTC Components shall pass to Buyer. The Purchase Price shall be due and payable in a lump sum payment within 5 Business Days following execution of the Bill of Sale.
6. Conditions Precedent. The obligation of Seller to Deliver and sell to Buyer, and of Buyer to accept Delivery and purchase, the Project PTC Components shall be subject to the following conditions precedent: (a) the Purchase Price has been agreed (subject only to adjustment for the actual Anticipated Delivery Date, if the Purchase Price is based on the Confirmation Price); (b) Buyer has entered into the Project TSA for the Project; (c) and the latest PTC Transfer date under the MSA for the Project PTC Components has occurred prior to April 12, 2017, and Supplier has otherwise fully complied with its PTC Obligations with respect to the Project PTC Components under the MSA, and (d) Seller has not incurred, and has not claimed from Supplier, any PTC Damages in connection with the Project PTC Components.
7. Responsibility for Taxes. Buyer shall be responsible for all taxes payable in connection with the purchase of the Project PTC Components pursuant to Applicable Law. The Purchase Price shall not be adjusted by any such taxes.

8. Further Assurances. Each of the Parties shall use its commercially reasonable efforts to take, or cause to be taken, all appropriate action, do or cause to be done all things necessary, proper or advisable under Applicable Laws, and execute and deliver such documents and other papers, as may be required to carry out the provisions of this Agreement.
9. Representations and Warranties. Each Party hereby represents and warrants as follows:
 - (a) Such Party has full power and authority to enter into and perform its obligations under this Agreement, and has taken all necessary action to authorize its execution and delivery of this Agreement and the performance of its obligations under this Agreement.
 - (b) This Agreement has been duly executed and delivered by such Party and constitutes the legal, valid and binding obligation of such Party, enforceable against it in accordance with the terms hereof, subject to applicable bankruptcy, insolvency and other similar laws affecting creditors' rights generally and subject to general equitable principles.
 - (c) All governmental authorizations and actions necessary in connection with the execution and delivery by such Party of this Agreement and the performance of its obligations hereunder have been obtained or performed and remain valid and in full force and effect.
 - (d) Execution, delivery and performance of this Agreement by such Party (i) do not and will not contravene any provisions of such Party's organizational documents, or any law, rule, regulation, order, judgment or decree applicable to or binding on such Party or any of its properties, (ii) do not and will not contravene, or result in any breach of or constitute any default under, any agreement or instrument to which such Party is a party or by which such Party or any of its properties may be bound or affected, and (iii) do not and will not require the consent of any Person under any existing law or agreement which has not already been obtained (other than the Parties hereto).
10. Disclaimer. THE PARTIES ACKNOWLEDGE AND AGREE THAT THE PROJECT PTC COMPONENTS WILL BE SOLD "AS IS" IN ALL RESPECTS, AND SELLER EXPRESSLY DISCLAIMS ANY REPRESENTATIONS OR WARRANTIES OF ANY KIND OR NATURE, WRITTEN OR ORAL, STATUTORY, EXPRESS OR IMPLIED, CONCERNING THE PROJECT PTC COMPONENTS (INCLUDING, WITHOUT LIMITATION, ANY RELATING TO THE CONDITION, VALUE OR SUFFICIENCY OF THE PROJECT PTC COMPONENTS). WITHOUT LIMITING THE GENERALITY OF THE FOREGOING, SELLER SPECIFICALLY DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY, USAGE, SUITABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF, OR AS TO THE ABSENCE OF ANY DEFECTS IN, THE PROJECT PTC COMPONENTS.
11. Assignment. This Agreement shall bind and shall inure to the benefit of the respective Parties and their assigns, transferees and successors.

12. Governing Law. This Agreement shall be construed and enforced in accordance with the laws of the State of Texas.
13. Counterparts. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original but all of which together shall constitute one and the same instrument.

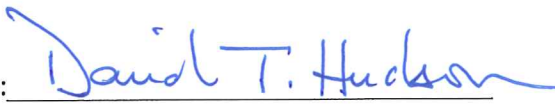
[Remainder of Page Intentionally Left Blank]

IN WITNESS WHEREOF, this Sale of Components Agreement has been duly executed and delivered by a duly authorized representative of each of the Parties as of the date first above written.

CAPITAL SERVICES, LLC, a Delaware
limited liability company

By: 
Name: Gary J. O'Hara
Title: President & Manager

**SOUTHWESTERN PUBLIC SERVICE
COMPANY**, a New Mexico corporation

By: 
Name: David T. Hudson
Title: President

ANNEX 1

FORM OF PURCHASE ORDER

PURCHASE ORDER TO SALE OF COMPONENTS AGREEMENT

[Date]

Re: Sale of Components Agreement (the “Agreement”) dated as of [____], between Capital Services, LLC (“Seller”) and [Xcel Entity____] (“Buyer”). Capitalized terms used herein and not otherwise defined herein shall have the meanings set forth in the Agreement.

Purchase Order No. _____

1. Buyer requests Delivery and sale of the following PTC Components for the [*identify Project*]:

PTC Component	Quantity	Indicative Delivery Date	Delivery Point
Turbine Nacelles (V[____], [____]MW)			
Towers ([____]m)			

2. Buyer designates the following Person to be responsible for the correspondence and communication regarding this Purchase Order: [*Name, contact information*].

**SOUTHWESTERN PUBLIC SERVICE
COMPANY**, a New Mexico corporation

By: _____

Name:

Title:

ANNEX 2

FORM OF CONFIRMATION

CONFIRMATION TO PURCHASE ORDER NO. _____

[Date]

Re: Purchase Order No. [_____] dated [_____] to Sale of Components Agreement (the "Agreement") dated as of [_____] between Capital Services, LLC ("Seller") and [Xcel Entity] ("Buyer"). Capitalized terms used herein and not otherwise defined herein shall have the meanings set forth in the Agreement.

1. Seller confirms its obligation to sell and arrange for Delivery of the following PTC Components for the [identify Project]:

PTC Component	Quantity	Serial Number for Each Separate Component	Date of Payment to Supplier	PTC Transfer Date	Indicative Delivery Date	Delivery Point
Turbine Nacelles (V[____], [____]MW)						
Towers ([____]m)						

2. Confirmation Price.

PTC Component	Serial #	PTC Component Price under MSA	Allocable Portion (%)	Storage and Maintenance Fee	Insurance Cost	Other Costs of Acquisition and Ownership	Total (Confirmation Price)
Turbine Nacelles (V[____], [____]MW)							
Towers ([____]m)							

3. Contact: Seller designates the following Person to be responsible for the correspondence and communication regarding this Purchase Order: *[Name, contact information]*.

**SOUTHWESTERN PUBLIC SERVICE
COMPANY**, a New Mexico corporation

By: _____

Name:

Title:

PURCHASE PRICE ENDORSEMENT:

[DATE]

The parties agree that the Purchase Price for each PTC Component shall be as follows:

PTC Component	Serial #	Purchase Price

CAPITAL SERVICES, LLC

**SOUTHWESTERN PUBLIC SERVICE
COMPANY**, a New Mexico corporation

By: _____

Name:

Title:

By: _____

Name:

Title:

ANNEX 3

FORM OF BILL OF SALE

BILL OF SALE AND ASSIGNMENT

This BILL OF SALE AND ASSIGNMENT is made and entered into as of [____], 201[____], by and between CAPITAL SERVICES, LLC, a Delaware limited liability company (hereinafter "Seller"), and [XCEL ENTITY], a [____] (hereinafter "Buyer"); sometimes collectively referred to as the "Parties" or singularly as a "Party". All defined terms not otherwise defined herein shall have the meaning set forth in the Sale of Components Agreement dated as of [____] by and between Buyer and Supplier.

RECITALS

1. Pursuant to the Agreement, Seller agreed to sell, and Buyer agreed to purchase, the PTC Components identified in Attachment 1 hereto (the "Subject Components").
2. It is the Parties' intention to evidence the transfer of the Subject Components purchased by Buyer from Seller pursuant to the Agreement by the execution and delivery of this Bill of Sale and Assignment.
3. The Parties now desire to carry out the intent and purpose of the Agreement by Seller's execution and delivery to Buyer of this Bill of Sale and Assignment as evidence of the sale, conveyance, assignment, transfer and delivery to Buyer of the Subject Components.

NOW, THEREFORE, in consideration of the covenants, promises and representations set forth herein and the Agreement and for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties hereby agree as follows:

1. Seller does hereby, effective from and after the date hereof, sell, convey, assign, transfer and deliver unto Buyer, Seller's entire right, title and interest in, to and under the Subject Components, and Buyer hereby purchases and assumes all of Seller's right, title, interest in and to each Subject Component all as consistent with the Agreement.
2. Each of the Parties shall use its commercially reasonable efforts to take, or cause to be taken, all appropriate action, do or cause to be done all things necessary, proper or advisable under Applicable Laws, and execute and deliver such documents and other papers, as may be required to carry out the provisions of this Bill of Sale and Assignment.
3. THE PARTIES ACKNOWLEDGE AND AGREE THAT THE SUBJECT COMPONENTS ARE SOLD "AS IS" IN ALL RESPECTS, AND SELLER EXPRESSLY DISCLAIMS ANY REPRESENTATIONS OR WARRANTIES OF ANY KIND OR NATURE, WRITTEN OR ORAL, STATUTORY, EXPRESS OR IMPLIED, CONCERNING THE SUBJECT COMPONENTS (INCLUDING, WITHOUT LIMITATION, ANY RELATING TO THE CONDITION, VALUE OR SUFFICIENCY OF THE SUBJECT COMPONENTS). WITHOUT LIMITING THE GENERALITY OF THE FOREGOING, SELLER SPECIFICALLY DISCLAIMS ANY REPRESENTATION OR WARRANTY OF

MERCHANTABILITY, USAGE, SUITABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF, OR AS TO THE ABSENCE OF ANY DEFECTS IN, THE SUBJECT COMPONENTS.

4. Each of the Parties acknowledges and agrees that neither the representations and warranties nor the rights and remedies of the Parties under the Agreement shall be deemed to be enlarged, modified or altered in any way by this Bill of Sale and Assignment, and, to the extent there shall arise a conflict between this Bill of Sale and Assignment and the Agreement, the Agreement shall control.

5. This Bill of Sale and Assignment shall bind and shall inure to the benefit of the respective Parties and their assigns, transferees and successors.

6. This Bill of Sale and Assignment shall be construed and enforced in accordance with the laws of the State of *[insert the State where the relevant Project is located]*.

7. This Bill of Sale and Assignment may be executed in one or more counterparts, each of which shall be deemed an original but all of which together shall constitute one and the same instrument.

[Remainder of Page Intentionally Left Blank]

IN WITNESS WHEREOF, this Bill of Sale and Assignment has been duly executed and delivered by a duly authorized representative of each of the Parties as of the date first above written.

CAPITAL SERVICES, LLC

**SOUTHWESTERN PUBLIC SERVICE
COMPANY, a New Mexico corporation**

By: _____
Name:
Title:

By: _____
Name:
Title:

ATTACHMENT 1

SUBJECT COMPONENTS

PTC Component	Serial Number

Southwestern Public Service Company

Purchase and Sale Agreement between Invenergy and

Southwestern Public Service Company, dated March 9, 2017

2021 TX Rate Case

**APPLICATION OF
SOUTHWESTERN PUBLIC SERVICE COMPANY
FOR AUTHORITY TO CHANGE RATES**

ML-RR-7(V) is provided in electronic format.

Attachment ML-RR-8(V)(HS)
Pages 1 through 1
of
Attachment ML-RR-8(V)(HS)
Engineering, Procurement, and
Construction Agreement by and between
Southwestern Public Service Company, and
Wanzek Construction, Inc., dated as of
October 13, 2017

is
Highly-Sensitive Protected
Information

HIGHLY-SENSITIVE PROTECTED MATERIALS
PROVIDED PURSUANT TO PROTECTIVE ORDER



Intra-Office Memorandum

Date: January 7, 2020

To: SPS Energy Supply Leadership

From: Brian Smit, Manager, Strategic Asset Management

Subject: Plant X, Unit 3 Discovery Work Investment

During the fall 2019 outage work for Plant X, Unit 3 (Plant X3), a material amount of discovery work was identified. Plant X3 has an approved retirement date of 2024 in the Texas and FERC jurisdictions and a 2020 retirement date in the New Mexico jurisdiction. Filings have been submitted and are currently in progress to align the Plant X3 retirement date to 2024 in all regions. The unit is scheduled to operate through 2024, and has an EOY 2019 estimated net book value of \$4.04M and an underfunded cost of removal (COR) reserve of \$89,000 to be collected through rates.

The discovery work that is out of the planned outage scope includes the following items:

Item Description	Estimated Expense
<i>Capital</i>	
Wall Tube Replacement	\$2,982,500
Bull Nose Tubes	\$100,000
APH Material	\$126,000
APH Labor	\$133,875
Ignitor Replacement	\$318,750
Corner tube material	\$515,625
Insulation and Refractory	\$371,875
Subtotal Capital	\$4,548,625
<i>O&M</i>	
Turbine Valve Repairs	\$249,688
Chemical Clean	\$112,500
Main Steam Seamed Pipe Inspection	\$158,750
Condenser Inspection	\$106,250
Subtotal O&M	\$627,188

To evaluate the financial impact of the discovery work identified, three scenarios were evaluated:

1. Complete Discovery Work: The additional capital (\$4,548,625) and O&M (\$627,188) work that was identified in the fall 2019 outage is completed, to maintain the unit until its current operational date of 2024. Sensitivities were incorporated to account for 25% sensitivity on the capital estimates.
2. Retire in Place, Energy Replacement: This scenario considers that the unit is retired in place due to the discovery work identified and the energy that was

planned to be generated from Plant X3 is served by market energy (2020-2024 average of \$24.26/MWh).

3. Retire in Place, Firm Capacity and Energy Replacement: This scenario considers that the unit is retired in place due to the discovery work identified. The energy that was planned to be generated from Plant X3 is served by market energy (2020-2024 average of \$24.26/MWh). The capacity (93 MW) is assumed to be replaced at the cost of a CT with firm gas (\$7.95/kW-mo), as Plant X3 currently provides firm capacity to the SPS system.

Based on the scenarios outlined above, the unit's lifecycle cost is outlined in the table below.

Action	PVRR	LCOE (\$/MWh)
Complete Discovery Work (<i>Capital Scope Reduction of 25%</i>)	\$52,331,909	\$32.83
Complete Discovery Work	\$53,477,957	\$33.55
Complete Discovery Work (<i>Capital Scope Increase of 25%</i>)	\$54,624,005	\$34.26
Retire in Place, Energy Replacement	\$43,415,491	\$27.23
Retire in Place, Firm Capacity and Energy Replacement	\$79,401,815	\$49.81

It is important to note that this analysis is based on forecasted energy prices and unit capacity factors. As with any forecast modeling, the model is run with "complete" market information where real dispatch of the system includes variations and divergence from what was forecasted. As shown in the table above, based on the market information available at this time, it is most cost effective to retire Plant X3 and forego the discovery work, based on the forecasted market alternatives and no additional capacity need based on this retirement. It is also worth noting that Plant X3 is forecasted to have \$4.13M of unrecovered investment (asset net book value and unrecovered COR) at the end of 2019.

Based on this analysis the discovery work should not be completed without direction from the regional commission that Plant X3 must spend the capital and remain in service. Based on the current SPS generating fleet, SPS capacity needs, forecasted market alternatives and the discovery work estimates, the most fiscally responsible action regarding Plant X3 is to not complete the discovery work and begin the process of retiring the unit.

Southwestern Public Service Company

December 2020 Plant X Unit 3 Economic Analysis

PVSC-PVRR Total

WACC	6.47%
------	-------

PVRR Production Cost		NPV (\$M)	2021	2022	2023	2024
Hourly_ReferenceCaseNoRFI_PlantX3 Fixed	Delta (\$M)	\$ 5,579	\$ 1,488,274	\$ 1,515,810	\$ 1,544,397	\$ 1,574,515
Hourly_ReferenceCaseNoRFI_PlantX3 Abandoned		\$ 5,567	\$ 1,483,737	\$ 1,513,338	\$ 1,541,189	\$ 1,571,679

Southwestern Public Service Company

December 2020 Plant X Unit 3 Economic Analysis
Company Annual

Scenario	Run ID	Company	Year	Peak (MW)	Capacity (MW)	Net Capacity Imports (MW)	Reserve Margin (%)	Load Factor (%)	Firm Capacity (MW)	Energy (GWh)
Hourly_ReferenceCaseNoRFL_PlantX3 Fixed	0	SPS	2021	4,045.92	8,035.75	0.00	46.41	72.53	5,923.67	25,705.35
Hourly_ReferenceCaseNoRFL_PlantX3 Fixed	0	SPS	2022	4,012.51	8,027.26	0.00	47.51	74.32	5,918.67	26,121.77
Hourly_ReferenceCaseNoRFL_PlantX3 Fixed	0	SPS	2023	4,066.83	7,764.26	0.00	38.91	74.05	5,649.41	26,379.57
Hourly_ReferenceCaseNoRFL_PlantX3 Fixed	0	SPS	2024	4,103.53	7,653.26	0.00	34.84	74.57	5,533.18	26,880.74
Hourly_ReferenceCaseNoRFL_PlantX3 Abandoned	0	SPS	2021	4,045.92	8,035.75	0.00	44.11	72.53	5,830.67	25,705.35
Hourly_ReferenceCaseNoRFL_PlantX3 Abandoned	0	SPS	2022	4,012.51	8,027.26	0.00	45.19	74.32	5,825.67	26,121.77
Hourly_ReferenceCaseNoRFL_PlantX3 Abandoned	0	SPS	2023	4,066.83	7,671.26	0.00	36.63	74.05	5,556.41	26,379.57
Hourly_ReferenceCaseNoRFL_PlantX3 Abandoned	0	SPS	2024	4,103.53	7,560.26	0.00	32.57	74.57	5,440.17	26,880.74

Southwestern Public Service Company

December 2020 Plant X Unit 3 Economic Analysis
Company Annual

Scenario	Run ID	Company	Year	Net Generation (GW/h)	Curtailed (MW/h)	Fuel Costs (\$000)	Program Costs (\$000)	Commitment Costs (\$000)
Hourly_ReferenceCaseNoRFL_PlantX3 Fixed	0 SPS		2021	28,676.93	0.00	345,404.13	0.00	1,689.98
Hourly_ReferenceCaseNoRFL_PlantX3 Fixed	0 SPS		2022	26,583.86	0.00	279,458.91	0.00	1,080.68
Hourly_ReferenceCaseNoRFL_PlantX3 Fixed	0 SPS		2023	28,630.44	0.00	339,055.36	0.00	1,445.88
Hourly_ReferenceCaseNoRFL_PlantX3 Fixed	0 SPS		2024	28,435.00	0.00	336,734.46	0.00	1,126.10
Hourly_ReferenceCaseNoRFL_PlantX3 Abandoned	0 SPS		2021	28,655.83	0.00	344,795.53	0.00	1,703.62
Hourly_ReferenceCaseNoRFL_PlantX3 Abandoned	0 SPS		2022	26,572.91	0.00	279,153.19	0.00	1,133.55
Hourly_ReferenceCaseNoRFL_PlantX3 Abandoned	0 SPS		2023	28,592.80	0.00	338,010.21	0.00	1,473.77
Hourly_ReferenceCaseNoRFL_PlantX3 Abandoned	0 SPS		2024	28,370.81	0.00	335,014.95	0.00	1,209.45

Southwestern Public Service Company

December 2020 Plant X Unit 3 Economic Analysis
Company Annual

Scenario	Run ID	Company	Year	Non-Fuel Variable Cost (\$000)	Fixed Cost (\$000)	Other Costs (\$000)	Contract Revenue (\$000)	Contract Cost (\$000)	Sales (GWh)
Hourly_ReferenceCaseNoRFL_PlantX3 Fixed	0	SPS	2021	238,754.68	180,057.87	0.00	2,037.52	0.00	5,374.22
Hourly_ReferenceCaseNoRFL_PlantX3 Fixed	0	SPS	2022	237,373.05	177,141.16	0.00	2,078.27	0.00	3,675.71
Hourly_ReferenceCaseNoRFL_PlantX3 Fixed	0	SPS	2023	251,407.48	173,604.60	0.00	2,119.83	0.00	4,801.02
Hourly_ReferenceCaseNoRFL_PlantX3 Fixed	0	SPS	2024	255,743.37	171,284.56	0.00	2,162.23	0.00	4,293.87
Hourly_ReferenceCaseNoRFL_PlantX3 Abandoned	0	SPS	2021	238,686.21	179,117.56	0.00	2,037.52	0.00	5,352.11
Hourly_ReferenceCaseNoRFL_PlantX3 Abandoned	0	SPS	2022	237,351.45	177,141.16	0.00	2,078.27	0.00	3,666.45
Hourly_ReferenceCaseNoRFL_PlantX3 Abandoned	0	SPS	2023	251,344.44	173,604.60	0.00	2,119.83	0.00	4,770.04
Hourly_ReferenceCaseNoRFL_PlantX3 Abandoned	0	SPS	2024	255,567.27	171,284.56	0.00	2,162.23	0.00	4,239.14

Southwestern Public Service Company

December 2020 Plant X Unit 3 Economic Analysis
Company Annual

Scenario	Run ID	Company	Year	Purchases (GWh)	Losses (GWh)	Sales Revenue (\$000)	Purchase Cost (\$000)	Ancillary Sales (\$000)	Ancillary Purchases (\$000)
Hourly_ReferenceCaseNoRFL_PlantX3 Fixed	0 SPS		2021	2,402.65		170,976.24	26,086.73		
Hourly_ReferenceCaseNoRFL_PlantX3 Fixed	0 SPS		2022	3,213.63		97,913.51	40,042.26		
Hourly_ReferenceCaseNoRFL_PlantX3 Fixed	0 SPS		2023	2,550.15		141,194.17	32,935.00		
Hourly_ReferenceCaseNoRFL_PlantX3 Fixed	0 SPS		2024	2,739.61		124,461.15	42,626.90		
Hourly_ReferenceCaseNoRFL_PlantX3 Abandoned	0 SPS		2021	2,401.63		170,191.13	26,007.66		
Hourly_ReferenceCaseNoRFL_PlantX3 Abandoned	0 SPS		2022	3,215.31		97,594.35	40,066.06		
Hourly_ReferenceCaseNoRFL_PlantX3 Abandoned	0 SPS		2023	2,556.81		140,183.09	33,061.46		
Hourly_ReferenceCaseNoRFL_PlantX3 Abandoned	0 SPS		2024	2,749.07		122,720.97	42,812.37		

Southwestern Public Service Company

December 2020 Plant X Unit 3 Economic Analysis
Company Annual

Scenario	Run ID	Company	Year	Retail Sales (GWh)	Retail Revenue (\$000)	Total Operating Cost (\$000)	Externality Costs (\$000)	Capacity Cost (\$000)
Hourly_ReferenceCaseNoRFL_PlantX3 Fixed	0	SPS	2021	25,705.35	0.00	618,979.63	0.00	
Hourly_ReferenceCaseNoRFL_PlantX3 Fixed	0	SPS	2022	26,121.77	0.00	635,104.29	0.00	
Hourly_ReferenceCaseNoRFL_PlantX3 Fixed	0	SPS	2023	26,379.57	0.00	655,134.30	0.00	
Hourly_ReferenceCaseNoRFL_PlantX3 Fixed	0	SPS	2024	26,880.74	0.00	680,892.00	0.00	
Hourly_ReferenceCaseNoRFL_PlantX3 Abandoned	0	SPS	2021	25,705.35	0.00	618,081.91	0.00	
Hourly_ReferenceCaseNoRFL_PlantX3 Abandoned	0	SPS	2022	26,121.77	0.00	635,172.80	0.00	
Hourly_ReferenceCaseNoRFL_PlantX3 Abandoned	0	SPS	2023	26,379.57	0.00	655,191.56	0.00	
Hourly_ReferenceCaseNoRFL_PlantX3 Abandoned	0	SPS	2024	26,880.74	0.00	681,005.40	0.00	

Southwestern Public Service Company

December 2020 Plant X Unit 3 Economic Analysis
Company Annual

Scenario	Run ID	Company	Year	Capacity Revenue (\$000)
Hourly_ReferenceCaseNoRFI_PlantX3 Fixed	0	SPS	2021	2,037.52
Hourly_ReferenceCaseNoRFI_PlantX3 Fixed	0	SPS	2022	2,078.27
Hourly_ReferenceCaseNoRFI_PlantX3 Fixed	0	SPS	2023	2,119.83
Hourly_ReferenceCaseNoRFI_PlantX3 Fixed	0	SPS	2024	2,162.23
Hourly_ReferenceCaseNoRFI_PlantX3 Abandoned	0	SPS	2021	2,037.52
Hourly_ReferenceCaseNoRFI_PlantX3 Abandoned	0	SPS	2022	2,078.27
Hourly_ReferenceCaseNoRFI_PlantX3 Abandoned	0	SPS	2023	2,119.83
Hourly_ReferenceCaseNoRFI_PlantX3 Abandoned	0	SPS	2024	2,162.23

Southwestern Public Service Company

December 2020 Plant X Unit 3 Economic Analysis
Company Capital

Scenario	Run ID	Company	Year	Operating Cost	Carrying Costs	Capital Expense	Installed Cost	Book Value	Book Depreciation	Tax Depreciation
Hourly_ReferenceCaseNoRFI_PlantX3 Fixed	0	SPS	0	2,507,359.38					438,608.79	
Hourly_ReferenceCaseNoRFI_PlantX3 Fixed	0	SPS	2021	618,979.63				930,964.55	95,217.74	95,217.74
Hourly_ReferenceCaseNoRFI_PlantX3 Fixed	0	SPS	2022	635,104.29				896,174.83	102,918.32	102,918.32
Hourly_ReferenceCaseNoRFI_PlantX3 Fixed	0	SPS	2023	655,134.30				851,469.40	125,207.36	125,207.36
Hourly_ReferenceCaseNoRFI_PlantX3 Fixed	0	SPS	2024	680,892.00				767,234.41	129,905.52	129,905.52
Hourly_ReferenceCaseNoRFI_PlantX3 Abandoned	0	SPS	0	2,506,689.39					428,884.44	
Hourly_ReferenceCaseNoRFI_PlantX3 Abandoned	0	SPS	2021	618,081.91				923,152.06	93,277.15	93,277.15
Hourly_ReferenceCaseNoRFI_PlantX3 Abandoned	0	SPS	2022	635,172.80				890,280.26	100,944.40	100,944.40
Hourly_ReferenceCaseNoRFI_PlantX3 Abandoned	0	SPS	2023	655,191.56				848,472.12	122,144.06	122,144.07
Hourly_ReferenceCaseNoRFI_PlantX3 Abandoned	0	SPS	2024	681,005.40				767,234.41	126,842.22	126,842.23

Southwestern Public Service Company

December 2020 Plant X Unit 3 Economic Analysis
Company Capital

Scenario	Run ID	Company	Year	Deferred Taxes	ADIT	Tax Credits	Property Taxes	Decommissioning	Other Costs	Debt
Hourly_ReferenceCaseNoRFL_PlantX3 Fixed	0	SPS	0	-63,140.96			28,533.74		238,481.50	
Hourly_ReferenceCaseNoRFL_PlantX3 Fixed	0	SPS	2021	-16,822.68	218,732.66		6,990.77		89,062.73	422,481.68
Hourly_ReferenceCaseNoRFL_PlantX3 Fixed	0	SPS	2022	-16,822.68	201,909.98		7,258.66		79,400.84	406,693.73
Hourly_ReferenceCaseNoRFL_PlantX3 Fixed	0	SPS	2023	-16,057.83	185,852.16		7,561.75		48,226.92	386,405.94
Hourly_ReferenceCaseNoRFL_PlantX3 Fixed	0	SPS	2024	-15,468.26	170,383.90		7,660.70		28,580.99	348,179.21
Hourly_ReferenceCaseNoRFL_PlantX3 Abandoned	0	SPS	0	-63,098.33			28,261.48		238,461.98	
Hourly_ReferenceCaseNoRFL_PlantX3 Abandoned	0	SPS	2021	-16,866.68	218,644.64		6,929.41		89,058.33	418,936.29
Hourly_ReferenceCaseNoRFL_PlantX3 Abandoned	0	SPS	2022	-16,866.68	201,777.96		7,196.78		79,396.40	404,018.71
Hourly_ReferenceCaseNoRFL_PlantX3 Abandoned	0	SPS	2023	-15,991.82	185,786.15		7,482.81		48,221.26	385,045.74
Hourly_ReferenceCaseNoRFL_PlantX3 Abandoned	0	SPS	2024	-15,402.25	170,383.90		7,581.76		28,575.33	348,179.21

Southwestern Public Service Company

December 2020 Plant X Unit 3 Economic Analysis
Company Capital

Scenario	Run ID	Company	Year	Debt Service	Interest	AFUDC	Capitalized Interest	Rate Base	Allowed Return	Revenue Requirement
Hourly_ReferenceCaseNoRFL_PlantX3 Fixed	0	SPS	0	57,130.80	65,892.86				208,331.19	3,421,314.60
Hourly_ReferenceCaseNoRFL_PlantX3 Fixed	0	SPS	2021	2,600.33	18,359.59			930,964.57	59,043.56	869,294.43
Hourly_ReferenceCaseNoRFL_PlantX3 Fixed	0	SPS	2022	10,178.28	17,673.50			896,174.86	56,023.57	880,705.68
Hourly_ReferenceCaseNoRFL_PlantX3 Fixed	0	SPS	2023	7,834.23	16,791.86			851,469.45	53,132.64	889,262.97
Hourly_ReferenceCaseNoRFL_PlantX3 Fixed	0	SPS	2024	39,651.29	15,130.66			767,234.48	46,583.43	893,622.63
Hourly_ReferenceCaseNoRFL_PlantX3 Abandoned	0	SPS	0	53,338.38	65,570.74				206,968.47	3,409,265.77
Hourly_ReferenceCaseNoRFL_PlantX3 Abandoned	0	SPS	2021	2,293.18	18,205.52			923,152.09	58,308.43	865,655.24
Hourly_ReferenceCaseNoRFL_PlantX3 Abandoned	0	SPS	2022	9,237.04	17,557.25			890,280.30	55,454.93	878,165.32
Hourly_ReferenceCaseNoRFL_PlantX3 Abandoned	0	SPS	2023	6,505.68	16,732.75			848,472.17	52,957.88	885,997.58
Hourly_ReferenceCaseNoRFL_PlantX3 Abandoned	0	SPS	2024	38,291.09	15,130.66			767,234.48	46,668.85	890,673.56