

**SOUTHWESTERN ELECTRIC POWER COMPANY
INVENTORY POLICIES
APRIL 1, 2019 – MARCH 31, 2020**

COAL

SWEPCO's Welsh, Flint Creek, and Turk Power Plants utilize western coal out of the Powder River Basin of Wyoming. The coal from this area is shipped via railroads approximately 1,400 miles to the Welsh Power Plant, approximately 1,000 miles to the Flint Creek Power Plant, and approximately 1,350 miles to the Turk Power Plant. Through the years of operation, SWEPCO has gained much experience with the level of inventories required to fuel these plants in times of supply disruptions. Over the years, disruptions have been caused by a variety of reasons, including train derailments, train car unloading facility outages, iced-over bridges, rail strikes, very high train cycle times, and flooding.

The Company has determined that the appropriate target inventory levels for the Welsh Power Plant, the Flint Creek Power Plant, and the Turk Power Plant should be set at a 30 day supply based upon a full load burn rate.

FUEL OIL

No. 2 fuel oil is utilized at Welsh and Flint Creek Power Plants as ignition and flame stabilization fuel. The company maintains No. 2 fuel oil supplies at Welsh and Flint Creek to assure adequate supply to support continued operations.

Wilkes Power Plant Unit 1 utilized fuel oil as a backup fuel source in the event of gas supply disruptions or in the event fuel oil is more economic than natural gas. Up until early 2019, Knox Lee Power Plant Unit 5 and Lieberman Power Plant Units 3 and 4 utilized fuel oil in similar fashion to Wilkes Unit 1, as described above. As such, all of these units maintained No. 2 fuel oil inventory on site. However, due to lack of utilization, environmental liability and costs associated with maintaining inventory of No. 2 fuel oil, the decision was made to disable this capability at Knox Lee and Lieberman, and transfer all remaining fuel oil inventory to Welsh.

In addition to No. 2 fuel oil, Wilkes Unit 1 is permitted to burn non-polychlorinated biphenyl's (non-PCB) waste transformer oil containing less than 50 parts per million of PCBs. This waste transformer oil from Company equipment is added to a dedicated storage tank at Wilkes as necessary. During the Reconciliation Period, however, no inventory of this product was maintained at Wilkes.

Current inventory target levels are as follows:

<u>Power Plant</u>	<u>Fuel Oil Type</u>	<u>Inventory Target In Gallons</u>
Knox Lee ^A	No. 2	650,000
Lieberman ^A	No. 2	854,000
Wilkes	No. 2	615,000
Welsh	No. 2	435,000
Flint Creek	No. 2	445,000

^A Represents target inventory when the plant was dual fuel capable.

LIGNITE

PIRKEY

The Pirkey Power Plant utilizes lignite supplied principally from lignite properties in Harrison, Rusk, and Panola Counties of Texas, and is owned or controlled by SWEPCO. The Company has determined that the appropriate target inventory level for the Pirkey is 30 days supply at full-load burn.

DOLET HILLS

The Dolet Hills Power Plant utilizes lignite supplied principally from lignite properties in DeSoto and Red River Parishes, Louisiana, jointly owned or controlled by SWEPCO and Cleco Power, LLC. Per the operating agreement between SWEPCO and CLECO, CLECO has the duty and responsibility for operating the Plant, including setting the inventory targets. Regarding the Dolet Hills mine-mouth lignite supply and the type and duration of potential supply disruptions, the target inventory level at the Dolet Hills Power Plant has been established by CLECO at 45 days supply.

**SOUTHWESTERN ELECTRIC POWER COMPANY
COAL AND LIGNITE INVENTORY VALUES**

For the Test Year Ended March 31, 2020

Schedule E-2.2 contains Highly Sensitive information.

The information responsive to this request is HIGHLY SENSITIVE under the terms of the Protective Order. The Highly Sensitive information is available for review at the Austin offices of American Electric Power Company (AEP), 400 West 15th Street, Suite 1520, Austin, Texas, 78701, (512) 481-4562, during normal business hours.

**SOUTHWESTERN ELECTRIC POWER COMPANY
COAL AND LIGNITE INVENTORY VALUES**

For the Test Year Ended March 31, 2020

Schedule E-2.3 contains Highly Sensitive information.

The information responsive to this request is HIGHLY SENSITIVE under the terms of the Protective Order. The Highly Sensitive information is available for review at the Austin offices of American Electric Power Company (AEP), 400 West 15th Street, Suite 1520, Austin, Texas, 78701, (512) 481-4562, during normal business hours.

**SOUTHWESTERN ELECTRIC POWER COMPANY
COAL AND LIGNITE INVENTORY VALUES**

For the Test Year Ended March 31, 2020

Schedule E-2.4 contains Highly Sensitive information.

The information responsive to this request is HIGHLY SENSITIVE under the terms of the Protective Order. The Highly Sensitive information is available for review at the Austin offices of American Electric Power Company (AEP), 400 West 15th Street, Suite 1520, Austin, Texas, 78701, (512) 481-4562, during normal business hours.

**SOUTHWESTERN ELECTRIC POWER COMPANY
INVENTORY VALUATION
APRIL 1, 2019 – MARCH 31, 2020**

Coal & Lignite

Southwestern Electric Power Company uses an average inventory method for determining the cost of coal and lignite burned from inventory. The prior month's ending inventory in tons and dollars is added to the deliveries in tons and dollars for the current month. From this calculation, an average cost per ton of coal or lignite is calculated which is then multiplied by the number of tons burned to determine the burn cost for the month.

Btu content of coal or lignite burned from inventory is determined by sampling and analysis of the coal or lignite before being burned.

**SOUTHWESTERN ELECTRIC POWER COMPANY
INVENTORY VALUATION
APRIL 1, 2019 – MARCH 31, 2020**

Fuel Oil

Southwestern Electric Power Company uses an average inventory method for determining the cost of fuel oil burned from inventory. The prior month's ending inventory in gallons and dollars is added to the deliveries in gallons and dollars for the current month. From this calculation, an average cost per gallon of fuel oil is calculated which is then multiplied by the number of gallons burned to determine the burn cost for the month.

Similarly, the Btu content of fuel oil burned from inventory is determined on an average basis. Based on fuel oil industry standards, No. 2 fuel oil typically has a Btu content of 137,500 Btu's per gallon. SWEPCO uses this average Btu amount per gallon to determine the Btu content of fuel oil burned from inventory.

**SOUTHWESTERN ELECTRIC POWER COMPANY
FUEL OIL BURNS**

SWEPCO has not filed a fuel reconciliation with its current base rate case; therefore, this schedule is not applicable.

**SOUTHWESTERN ELECTRIC POWER COMPANY
NATURAL GAS SUPPLY DISRUPTIONS**

SWEPCO has not filed a fuel reconciliation with its current base rate case; therefore, this schedule is not applicable.

**SOUTHWESTERN ELECTRIC POWER COMPANY
COAL OR LIGNITE SUPPLY DISRUPTIONS**

SWEPCO has not filed a fuel reconciliation with its current base rate case; therefore, this schedule is not applicable.

SOUTHWESTERN ELECTRIC POWER COMPANY
Cash Working Capital Results
For the test year ended March 31, 2020

Line No	(1) Description	(2) Book Amount	(3) Proforma	(4) Adjusted Test Year Amount	(5) Avg. Daily Expense	(6) Revenue Lag Days	(7) Expense Lead Days	(8) Net (Lead)/Lag	(9) Working Capital Requirement
1	Operation & Maintenance Expense								
2	Fuel								
3	Coal	165,804,222		165,804,222	454,258	4.73	(19.67)	(14.94)	(6,786,497)
4	Oil	89,538,282		89,538,282	245,310	4.73	(26.15)	(21.42)	(5,255,671)
5	Gas	1,609,996		1,609,996	4,411	4.73	(40.12)	(35.39)	(156,123)
6	Lignite	153,199,030		153,199,030	419,723	4.73	(30.75)	(26.02)	(10,921,677)
7	Purchased Power	207,609,120		207,609,120	568,792	4.73	(36.54)	(31.81)	(18,093,277)
8	Other O&M	478,152,999	49,574,609	527,727,608	1,445,829	4.73	(39.92)	(35.19)	(50,878,725)
9	Federal Income Taxes								
10	Current	7,868,487	4,188,252	12,056,739	33,032	4.73	(36.50)	(31.77)	(1,049,432)
11	Deferred	(13,505,811)	21,766,421	8,260,610	22,632	0.00	0.00	0.00	-
12	State Income Taxes								
13	Current	1,078,801	(1,078,801)	-	-	4.73	(36.50)	(31.77)	-
14	Deferred	(2,443,565)	2,443,565	-	-	0.00	0.00	0.00	-
15	Taxes Other Than Income Taxes								
16	Payroll Taxes	7,052,634	45,867	7,098,502	19,448	4.73	(22.36)	(17.63)	(342,867)
17	Local Franchise Tax	17,684,405	(5,303,766)	12,380,638	33,920	4.73	(66.54)	(61.81)	(2,096,568)
18	Public Utility Commission Tax	2,177,698	8,163	2,185,861	5,989	4.73	(306.30)	(301.57)	(1,806,000)
19	Texas State Gross Margin Tax	462,753	(958,573)	(495,820)	(1,358)	4.73	46.00	50.73	(68,912)
20	Ad Valorem Taxes								
21	Arkansas	15,793,302	1,278,649	17,071,951	46,772	4.73	(393.65)	(388.92)	(18,190,748)
22	All Other States	46,622,204	3,770,351	50,392,556	138,062	4.73	(188.30)	(183.57)	(25,344,004)
23	Texas State Gross Receipts Tax	6,215,215	51,292	6,266,507	17,169	4.73	(75.00)	(70.27)	(1,206,431)
24	Other Taxes Other Than Income Taxes	4,519,122	(4,517,420)	1,703	5	4.73	(4.73)	0.00	-
25	Interest on Customer Deposits	724,395	-	724,395	1,985	4.73	(164.16)	(159.43)	(316,412)
26	Depreciation Expense			-	-	0.00	0.00	0.00	-
27	Return	389,318,076	-	389,318,076	1,066,625	0.00	0.00	0.00	-
28	Subtotal	\$ 1,579,481,365	\$ 71,268,609	\$ 1,650,749,975					\$ (142,513,344)
29	Working Funds and Other								(2,706,815)
30	Total								\$ (145,220,159)

Note SWEPCO is using the same lead-lag study data as approved in the most recent rate case, Docket 46449.

SOUTHWESTERN ELECTRIC POWER COMPANY
 Materials and Supplies and Prepayments Charged To
 Operation and Maintenance Expense
 For the Test Year Ended March 31, 2020

(1)			(2)	(3)
Line No.	Period		Materials and Supplies	Prepayments
1	April	2019	\$886,547	\$838,590
2	May	2019	\$709,517	\$742,490
3	June	2019	\$451,044	\$789,383
4	July	2019	\$774,177	\$681,587
5	August	2019	\$456,003	\$680,911
6	September	2019	\$470,407	\$678,841
7	October	2019	\$501,998	\$688,607
8	November	2019	\$500,393	\$713,371
9	December	2019	\$616,727	\$701,097
10	January	2020	\$365,413	\$687,319
11	February	2020	\$323,431	\$689,469
12	March	2020	\$1,668,891	\$576,759
			<u>\$7,724,548</u>	<u>\$8,468,425</u>

SOUTHWESTERN ELECTRIC POWER COMPANY
 Customer Deposits
 Test Year Ended March 31, 2020

	(1)	(2)	(3)	(4)
	Total Customer Deposits			
Line No	Texas		Other States	
	Active	Inactive	Active	Inactive
1	\$ 14,910,836	\$ -	\$ 50,161,424	N/A
2	<u>Company's policy regarding inactive customer deposits.</u>			
3	All customer deposits are considered to be active. Deposits are			
4	applied to final billings or transferred to a new account as			
5	appropriate.			
	March 31, 2020 Balance			\$65,072,259

SOUTHWESTERN ELECTRIC POWER COMPANY

DEPRECIATION STUDY AS OF DECEMBER 31, 2019

DEPRECIATION STUDY WORKPAPERS

SOUTHWESTERN ELECTRIC POWER COMPANY

DEPRECIATION STUDY AS OF DECEMBER 31, 2019

PRODUCTION PLANT NET SALVAGE RATIO CALCULATION

**SOUTHWESTERN ELECTRIC POWER COMPANY
2019 DEPRECIATION STUDY
CALCULATION OF NET SALVAGE RATIO AT RETIREMENT DATE**

Plant/Units	Terminal Salvage (credits) at Retirement Date	Total Salvage Amount	Terminal Removal at Retirement Date	Total Removal Amount	Original Cost at Dec. 2019	Salvage as a % of Original Cost	Removal as a % of Original Cost	Net Salvage Percent	Net Salvage Ratio
Arsenal Hill	\$1,645,165	\$1,645,165	\$5,616,720	\$5,616,720	\$27,613,570	5.96%	20.34%	-14.38%	1.14
Knox Lee	\$10,886,878	\$10,886,878	\$38,358,491	\$38,358,491	\$61,359,044	17.74%	62.51%	-44.77%	1.45
Lieberman (2)	\$5,054,456	\$5,054,456	\$11,834,660	\$11,834,660	\$41,348,781	12.22%	28.62%	-16.40%	1.16
Wilkes	\$12,447,885	\$12,447,885	\$23,023,562	\$23,023,562	\$119,591,905	10.41%	19.25%	-8.84%	1.09
Dolet Hills	\$3,488,073	\$3,488,073	\$14,228,456	\$14,228,456	\$334,573,516	1.04%	4.25%	-3.21%	1.03
Flint Creek	\$5,450,990	\$5,450,990	\$16,704,551	\$16,704,551	\$355,281,974	1.53%	4.70%	-3.17%	1.03
Pirkey	\$12,385,407	\$12,385,407	\$41,702,285	\$41,702,285	\$577,660,932	2.14%	7.22%	-5.08%	1.05
Welsh	\$28,097,562	\$28,097,562	\$67,211,347	\$67,211,347	\$867,093,506	3.24%	7.75%	-4.51%	1.05
Mattison	\$1,288,569	\$1,288,569	\$9,754,256	\$9,754,256	\$124,630,167	1.03%	7.83%	-6.80%	1.07
Stall	\$4,948,883	\$4,948,883	\$11,764,394	\$11,764,394	\$431,468,442	1.15%	2.73%	-1.58%	1.02
Turk	<u>\$14,328,736</u>	<u>\$14,328,736</u>	<u>\$55,051,564</u>	<u>\$55,051,564</u>	<u>\$1,654,471,430</u>	0.87%	3.33%	-2.46%	1.02
TOTALS	\$100,022,604	\$100,022,604	\$295,250,286	\$295,250,286	\$4,595,093,267				

Notes:

(1) Per the order in PUC Docket No. 40443 (item 195), Texas does not recognize interim retirements in the calculation of generating plant depreciation rates.

(2) Includes final cost of removal for the Lone Star Plant which retired in 2020.

(3) A 10% contingency is used in the current demolition cost estimate because the Commission ordered the use of a 10% contingency in SWEPCO's 2016 rate case (Docket No. 46449).

**SOUTHWESTERN ELECTRIC POWER COMPANY
2019 DEPRECIATION STUDY
CALCULATION OF TERMINAL SALVAGE AND REMOVAL AT RETIREMENT DATE
USING SARGENT & LUNDY STUDY DATA AND CONSUMER'S PRICE INDEX**

Plant/Units	Terminal Salvage - Price Level 2020	Terminal Removal - Price Level 2020	Terminal Net Salvage - Price Level 2020	Average Inflation Rate (1)	Plant Retirement Year	Years Until Plant Retirement	Terminal Salvage at Retirement Date	Terminal Removal at Retirement Date	Terminal Net Salvage at Retirement Date
Arsenal Hill	\$1,474,111	\$5,032,727	-\$3,558,616	2.22%	2025	5	\$1,645,165	\$5,616,720	-\$3,971,555
Knox Lee	\$7,173,345	\$25,274,342	-\$18,100,997	2.22%	2039	19	\$10,886,878	\$38,358,491	-\$27,471,613
Lieberman	\$3,866,586	\$8,210,460	-\$4,343,874	2.22%	2024	4	\$4,221,543	\$8,964,189	-\$4,742,646
Lone Star	\$832,913	\$2,870,471	-\$2,037,558	2.22%	2020	0	\$832,913	\$2,870,471	-\$2,037,558
Wilkes	\$8,760,352	\$16,203,114	-\$7,442,762	2.22%	2036	16	\$12,447,885	\$23,023,562	-\$10,575,677
Dolet Hills	\$3,488,073	\$14,228,456	-\$10,740,383	2.22%	2021	0	\$3,488,073	\$14,228,456	-\$10,740,383
Flint Creek	\$3,671,382	\$11,250,946	-\$7,579,564	2.22%	2038	18	\$5,450,990	\$16,704,551	-\$11,253,561
Pirkey	\$7,153,414	\$24,085,903	-\$16,932,489	2.22%	2045	25	\$12,385,407	\$41,702,285	-\$29,316,878
Welsh	\$17,333,224	\$41,462,293	-\$24,129,069	2.22%	2042	22	\$28,097,562	\$67,211,347	-\$39,113,785
Mattison	\$638,204	\$4,831,101	-\$4,192,897	2.22%	2052	32	\$1,288,569	\$9,754,256	-\$8,465,687
Stall	\$2,858,316	\$6,794,737	-\$3,936,421	2.22%	2045	25	\$4,948,883	\$11,764,394	-\$6,815,511
Turk	<u>\$5,105,305</u>	<u>\$19,614,781</u>	<u>-\$14,509,476</u>	2.22%	2067	47	<u>\$14,328,736</u>	<u>\$55,051,564</u>	<u>-\$40,722,828</u>
TOTALS	\$62,355,225	\$179,859,331	-\$117,504,106				\$100,022,604	\$295,250,286	-\$195,227,682

Note (1) Source Livingston Survey dated December 2019 (survey performed by Federal Reserve Bank of Philadelphia)

**SOUTHWESTERN ELECTRIC POWER COMPANY
2019 DEPRECIATION STUDY
CALCULATION OF TERMINAL SALVAGE AND REMOVAL AT 2020 PRICE LEVEL**

Plant/Units (A)	Terminal Salvage	Terminal Removal	Net Salvage	SWEPCo Share of Plant/Unit	Terminal Salvage - Price Level 2020	Terminal Removal - Price Level 2020	Terminal Net Salvage - Price Level 2020
Arsenal Hill	\$1,474,111	\$5,032,727	-\$3,558,616	100.00%	\$1,474,111	\$5,032,727	-\$3,558,616
Knox Lee	\$7,173,345	\$25,274,342	-\$18,100,997	100.00%	\$7,173,345	\$25,274,342	-\$18,100,997
Lieberman	\$3,866,586	\$8,210,460	-\$4,343,874	100.00%	\$3,866,586	\$8,210,460	-\$4,343,874
Lone Star	\$832,913	\$2,870,471	-\$2,037,558	100.00%	\$832,913	\$2,870,471	-\$2,037,558
Wilkes	\$8,760,352	\$16,203,114	-\$7,442,762	100.00%	\$8,760,352	\$16,203,114	-\$7,442,762
Dolet Hills	\$8,670,328	\$35,367,776	-\$26,697,448	40.23%	\$3,488,073	\$14,228,456	-\$10,740,383
Flint Creek	\$7,342,763	\$22,501,892	-\$15,159,129	50.00%	\$3,671,382	\$11,250,946	-\$7,579,564
Pirkey	\$8,323,730	\$28,026,417	-\$19,702,687	85.94%	\$7,153,414	\$24,085,903	-\$16,932,489
Welsh	\$17,333,224	\$41,462,293	-\$24,129,069	100.00%	\$17,333,224	\$41,462,293	-\$24,129,069
Mattison	\$638,204	\$4,831,101	-\$4,192,897	100.00%	\$638,204	\$4,831,101	-\$4,192,897
Stall	\$2,858,316	\$6,794,737	-\$3,936,421	100.00%	\$2,858,316	\$6,794,737	-\$3,936,421
Turk	<u>\$6,962,096</u>	<u>\$26,748,644</u>	<u>-\$19,786,548</u>	73.33%	<u>\$5,105,305</u>	<u>\$19,614,781</u>	<u>-\$14,509,476</u>
TOTALS	\$74,235,968	\$223,323,974	-\$149,088,006		\$62,355,225	\$179,859,331	-\$117,504,106

NOTES:

A. Asbestos and ash pond removal excluded from the Sargent & Lundy estimates

B. A 10% contingency is used in the current demolition cost estimate because the Commission ordered the use of a 10% contingency in SWEPCO's 2016 rate case (Docket No. 46449).

SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
PRODUCTION PLANT AVERAGE AGE OF SURVIVING PLANT

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
ALLIANCE RAIL FACILITY - Account 39930**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
1977	641,506	42.5	27,263,989	
1978	112,396	41.5	4,664,418	
1979	18,587	40.5	752,768	
1980	594,822	39.5	23,495,478	
1981	75,364	38.5	2,901,496	
1982	56,762	37.5	2,128,560	
1983	5,118	36.5	186,794	
1984	363,662	35.5	12,910,007	
1985	139,863	34.5	4,825,289	
1986	15,930	33.5	533,643	
1987	45,718	32.5	1,485,849	
1988	14,166	31.5	446,227	
1989	5,859	30.5	178,700	
1990	11,819	29.5	348,653	
1991	38,712	28.5	1,103,299	
1992	32,539	27.5	894,814	
1993	12,285	26.5	325,565	
1994	359,721	25.5	9,172,882	
1997	34,322	22.5	772,248	
2001	2,753	18.5	50,934	
2002	2,056,857	17.5	35,994,994	
2009	10,915	10.5	114,610	
2010	146,549	9.5	1,392,215	
2011	169,938	8.5	1,444,472	
2012	575,100	7.5	4,313,249	
2013	135,184	6.5	878,694	
2014	141,318	5.5	777,249	
2015	31,578	4.5	142,103	
2017	983	2.5	2,459	
2018	8,860	1.5	13,290	
2019	<u>12,831</u>	0.5	<u>6,416</u>	
	5,872,017		139,521,364	<u>23.76</u>

Average Property Life set using average age of surviving plant plus years until estimated retirement year of Welsh Unit 3 in 2042.

Average Property Life (Years)	46.76
Average Age	23.76
Remaining Life (Years until 2042 Retirement)	23.00
 Theoretical Reserve	 2,888,289

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
ARSENAL HILL GENERATING PLANT - Account 311**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
1926	591,913	93.5	55,343,840	
1927	323,790	92.5	29,950,575	
1928	87,765	91.5	8,030,498	
1929	30,209	90.5	2,733,915	
1930	49,653	89.5	4,443,944	
1938	26,235	81.5	2,138,153	
1939	11,635	80.5	936,618	
1940	5,701	79.5	453,230	
1945	2,933	74.5	218,509	
1946	1,425	73.5	104,738	
1949	24,728	70.5	1,743,299	
1951	6,407	68.5	438,880	
1953	16,268	66.5	1,081,822	
1955	7,052	64.5	454,854	
1956	1,191	63.5	75,629	
1957	12,449	62.5	778,063	
1960	1,261,693	59.5	75,070,744	
1961	25,442	58.5	1,488,357	
1962	1,495	57.5	85,963	
1964	974	55.5	54,057	
1965	12,787	54.5	696,892	
1966	5,185	53.5	277,398	
1967	8,627	52.5	452,918	
1968	3,721	51.5	191,632	
1969	39,486	50.5	1,994,033	
1970	12,394	49.5	613,503	
1971	62,257	48.5	3,019,465	
1972	750	47.5	35,625	
1973	7,059	46.5	328,244	
1974	137,533	45.5	6,257,752	
1975	14,314	44.5	636,979	
1979	10,028	40.5	406,120	
1980	70,205	39.5	2,773,099	
1981	30,112	38.5	1,159,329	
1982	124,486	37.5	4,668,239	
1983	297,103	36.5	10,844,253	
1984	65,391	35.5	2,321,363	
1985	55,915	34.5	1,929,081	
1986	9,213	33.5	308,632	
1987	98,743	32.5	3,209,155	
1991	764,237	28.5	21,780,742	
1992	52,627	27.5	1,447,243	
1993	38,343	26.5	1,016,098	
1999	58,318	20.5	1,195,512	
2000	4,649	19.5	90,648	
2001	4,776	18.5	88,363	
2004	6,607	15.5	102,411	
2008	309,081	11.5	3,554,428	
2009	121,427	10.5	1,274,988	
2010	77,269	9.5	734,057	
2011	10,181	8.5	86,542	
2012	2,805	7.5	21,039	
2013	88,819	6.5	577,324	
2014	157,635	5.5	866,991	
2015	287,400	4.5	1,293,301	
2016	210,087	3.5	735,305	
2017	18,700	2.5	46,750	
2018	735,210	1.5	1,102,815	
2019	21,139	0.5	10,570	
	6,523,578		263,774,517	<u>40.43</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
ARSENAL HILL GENERATING PLANT - Account 312**

VINTAGE YEAR	SURVIVING BALANCE	AGE (YEARS)	DOLLAR YEARS	AVERAGE AGE (YEARS)
1960	3,359,378	59.5	199,883,011	
1962	3,174	57.5	182,481	
1963	4,181	56.5	236,227	
1965	5,170	54.5	281,782	
1967	10,015	52.5	525,788	
1968	3,320	51.5	170,980	
1972	1,315	47.5	62,463	
1973	394	46.5	18,321	
1974	181,410	45.5	8,254,170	
1975	227	44.5	10,104	
1976	537	43.5	23,342	
1983	6,676	36.5	243,667	
1984	17,899	35.5	635,421	
1986	11,739	33.5	393,254	
1987	5,188	32.5	168,605	
1988	3,724	31.5	117,315	
1989	2,144	30.5	65,377	
1990	23,509	29.5	693,511	
1991	8,902	28.5	253,700	
1993	8,723	26.5	231,162	
1994	12,573	25.5	320,616	
1996	47,391	23.5	1,113,694	
1997	149,061	22.5	3,353,871	
1998	17,387	21.5	373,828	
1999	584,643	20.5	11,985,186	
2000	23,692	19.5	461,995	
2002	41,481	17.5	725,923	
2003	33,097	16.5	546,093	
2004	163,867	15.5	2,539,934	
2005	29,179	14.5	423,092	
2006	65,433	13.5	883,348	
2007	184,951	12.5	2,311,894	
2008	28,816	11.5	331,383	
2010	46,532	9.5	442,054	
2011	71,286	8.5	605,934	
2012	365,795	7.5	2,743,463	
2013	109,995	6.5	714,970	
2014	154,209	5.5	848,149	
2015	584,219	4.5	2,628,986	
2016	250,618	3.5	877,164	
2017	74,533	2.5	186,332	
2018	452,029	1.5	678,044	
2019	<u>42,334</u>	0.5	<u>21,167</u>	
	7,190,747		247,567,799	<u>34.43</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
ARSENAL HILL GENERATING PLANT - Account 314**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
1926	16,801	93.5	1,570,918	
1959	2,434	60.5	147,257	
1960	4,099,095	59.5	243,896,151	
1963	1,392	56.5	78,648	
1965	350	54.5	19,075	
1967	1,488	52.5	78,120	
1968	8,275	51.5	426,163	
1971	1,225	48.5	59,393	
1976	6,409	43.5	278,773	
1986	1,452	33.5	48,630	
1987	215	32.5	6,996	
1988	1,950	31.5	61,410	
1998	12,782	21.5	274,822	
2003	20,451	16.5	337,447	
2004	95,440	15.5	1,479,318	
2007	100,731	12.5	1,259,136	
2013	37,190	6.5	241,732	
2016	254,800	3.5	891,801	
2017	50,543	2.5	126,359	
2018	714,183	1.5	1,071,275	
2019	<u>9,864</u>	0.5	<u>4,932</u>	
	5,437,070		252,358,355	<u>46.41</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
ARSENAL HILL GENERATING PLANT - Account 315**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
1949	17,833	70.5	1,257,238	
1960	466,596	59.5	27,762,452	
1962	517	57.5	29,728	
1964	141	55.5	7,844	
1965	6	54.5	327	
1967	15,207	52.5	798,366	
1968	1,965	51.5	101,198	
1969	3,959	50.5	199,930	
1997	44,137	22.5	993,090	
2008	35,840	11.5	412,160	
2010	15,168	9.5	144,101	
2011	10,139	8.5	86,178	
2014	424,387	5.5	2,334,131	
2015	53,030	4.5	238,637	
2017	95,203	2.5	238,008	
2019	<u>66,824</u>	0.5	<u>33,412</u>	
	1,250,953		34,636,797	<u>27.69</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
ARSENAL HILL GENERATING PLANT - Account 316**

VINTAGE <u>YEAR</u>	SURVIVING <u>BALANCE</u>	AGE <u>(YEARS)</u>	DOLLAR <u>YEARS</u>	AVERAGE AGE <u>(YEARS)</u>
1985	13,146	34.5	453,539	
1986	151,739	33.5	5,083,240	
1987	88,233	32.5	2,867,565	
1988	33,601	31.5	1,058,429	
1989	149,671	30.5	4,564,972	
1990	25,933	29.5	765,010	
1991	14,025	28.5	399,705	
1992	135,713	27.5	3,732,112	
1993	82,491	26.5	2,186,002	
1994	64,445	25.5	1,643,351	
1996	1,138	23.5	26,747	
1997	140,827	22.5	3,168,617	
1999	364,850	20.5	7,479,415	
2000	335,971	19.5	6,551,438	
2001	205,302	18.5	3,798,084	
2002	258,413	17.5	4,522,219	
2003	271,141	16.5	4,473,832	
2004	223,053	15.5	3,457,319	
2005	264,925	14.5	3,841,415	
2006	69,478	13.5	937,951	
2007	828,318	12.5	10,353,978	
2008	397,892	11.5	4,575,757	
2009	528,171	10.5	5,545,796	
2010	335,850	9.5	3,190,575	
2011	446,091	8.5	3,791,777	
2012	297,651	7.5	2,232,384	
2013	325,203	6.5	2,113,821	
2014	139,188	5.5	765,537	
2015	575,191	4.5	2,588,360	
2016	161,387	3.5	564,853	
2017	91,340	2.5	228,351	
2018	118,980	1.5	178,470	
2019	<u>71,864</u>	0.5	<u>35,932</u>	
	7,211,222		97,176,553	<u>13.48</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
FLINT CREEK GENERATING PLANT - Account 311**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
1978	13,876,812	41.5	575,887,711	
1980	9,499	39.5	375,221	
1981	42,587	38.5	1,639,615	
1982	3,786	37.5	141,963	
1984	304,852	35.5	10,822,246	
1985	8,908	34.5	307,322	
1986	682,310	33.5	22,857,399	
1987	11,987	32.5	389,586	
1988	75,267	31.5	2,370,918	
1991	269,922	28.5	7,692,787	
1992	208,909	27.5	5,744,998	
1993	32,818	26.5	869,688	
1994	420	25.5	10,708	
1996	1,712	23.5	40,225	
1997	178,435	22.5	4,014,777	
1998	1,793	21.5	38,556	
1999	8,605	20.5	176,405	
2000	14,654	19.5	285,761	
2001	42,175	18.5	780,230	
2002	56,576	17.5	990,081	
2003	58,488	16.5	965,060	
2004	46,685	15.5	723,618	
2005	295,969	14.5	4,291,546	
2006	258,481	13.5	3,489,488	
2007	446,073	12.5	5,575,913	
2008	2,735,164	11.5	31,454,380	
2009	1,467,507	10.5	15,408,820	
2010	113,604	9.5	1,079,236	
2011	406,996	8.5	3,459,467	
2012	428,257	7.5	3,211,926	
2013	137,639	6.5	894,652	
2014	2,243,866	5.5	12,341,263	
2015	454,498	4.5	2,045,241	
2016	357,068	3.5	1,249,739	
2017	1,019,975	2.5	2,549,938	
2018	960,513	1.5	1,440,770	
2019	<u>68,113</u>	0.5	<u>34,056</u>	
	27,330,924		725,651,310	<u>26.55</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
FLINT CREEK GENERATING PLANT - Account 312**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
1978	28,248,894	41.5	1,172,329,084	
1979	118,947	40.5	4,817,351	
1980	164,934	39.5	6,514,895	
1981	26,280	38.5	1,011,779	
1982	58,701	37.5	2,201,295	
1984	75,965	35.5	2,696,767	
1986	1,996	33.5	66,867	
1987	257,312	32.5	8,362,639	
1989	163,182	30.5	4,977,044	
1990	228,008	29.5	6,726,226	
1991	128,154	28.5	3,652,376	
1992	644,803	27.5	17,732,094	
1993	359,495	26.5	9,526,626	
1994	424,058	25.5	10,813,470	
1996	298,989	23.5	7,026,242	
1997	638,124	22.5	14,357,781	
1998	356,401	21.5	7,662,626	
1999	2,175,755	20.5	44,602,979	
2000	549,601	19.5	10,717,215	
2001	878,664	18.5	16,255,275	
2002	230,102	17.5	4,026,781	
2003	502,299	16.5	8,287,932	
2004	229,437	15.5	3,556,274	
2005	598,039	14.5	8,671,562	
2006	398,683	13.5	5,382,217	
2007	485,095	12.5	6,063,692	
2008	339,550	11.5	3,904,825	
2009	12,167,060	10.5	127,754,132	
2010	897,033	9.5	8,521,814	
2011	2,865,438	8.5	24,356,227	
2012	544,250	7.5	4,081,878	
2013	2,357,945	6.5	15,326,642	
2014	310,069	5.5	1,705,381	
2015	497,467	4.5	2,238,603	
2016	226,510,618	3.5	792,787,163	
2017	817,015	2.5	2,042,538	
2018	9,032,582	1.5	13,548,873	
2019	<u>822,430</u>	0.5	<u>411,215</u>	
	295,403,376		2,384,718,380	<u>8.07</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
FLINT CREEK GENERATING PLANT - Account 31211 Railcars**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
1997	1,223,033	22.5	27,518,251	
2002	<u>2,766,517</u>	17.5	<u>48,414,044</u>	
	3,989,550		75,932,295	<u>19.03</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
FLINT CREEK GENERATING PLANT - Account 314**

VINTAGE YEAR	SURVIVING BALANCE	AGE (YEARS)	DOLLAR YEARS	AVERAGE AGE (YEARS)
1978	5,958,112	41.5	247,261,665	
1979	801,632	40.5	32,466,115	
1996	142,070	23.5	3,338,638	
1998	9,335	21.5	200,703	
1999	1,469,765	20.5	30,130,181	
2002	150,525	17.5	2,634,189	
2003	268,323	16.5	4,427,332	
2004	43,810	15.5	679,049	
2005	65,584	14.5	950,972	
2006	225,909	13.5	3,049,775	
2007	271,015	12.5	3,387,690	
2008	23,048	11.5	265,050	
2009	1,859,533	10.5	19,525,099	
2013	8,398	6.5	54,588	
2015	4,633	4.5	20,847	
2016	2,889,271	3.5	10,112,449	
2017	4,196	2.5	10,491	
2018	1,113,056	1.5	1,669,585	
2019	<u>10,399</u>	0.5	<u>5,200</u>	
	15,318,616		360,189,618	<u>23.51</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
FLINT CREEK GENERATING PLANT - Account 315**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
1978	2,454,119	41.5	101,845,958	
1979	1,114,044	40.5	45,118,796	
1980	31,920	39.5	1,260,858	
1981	208	38.5	8,016	
1982	17,810	37.5	667,893	
1989	88,760	30.5	2,707,171	
1996	318,191	23.5	7,477,499	
1997	81,111	22.5	1,824,995	
1998	30,229	21.5	649,915	
1999	33,054	20.5	677,608	
2000	10,297	19.5	200,796	
2003	218,112	16.5	3,598,847	
2004	149,572	15.5	2,318,374	
2005	182,700	14.5	2,649,145	
2006	82,752	13.5	1,117,145	
2007	106,567	12.5	1,332,092	
2008	114,746	11.5	1,319,578	
2009	278,515	10.5	2,924,406	
2011	4,462	8.5	37,923	
2013	31,368	6.5	203,889	
2014	15,980	5.5	87,888	
2015	1,899,122	4.5	8,546,049	
2016	434,177	3.5	1,519,620	
2017	708,714	2.5	1,771,785	
2018	2,341,711	1.5	3,512,567	
2019	<u>222,406</u>	0.5	<u>111,203</u>	
	10,970,647		193,490,016	<u>17.64</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
FLINT CREEK GENERATING PLANT - Account 316**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
1978	929,839	41.5	38,588,325	
1979	244,238	40.5	9,891,627	
1980	355	39.5	14,013	
1981	6,814	38.5	262,350	
1982	90,076	37.5	3,377,845	
1983	9,705	36.5	354,215	
1984	114,159	35.5	4,052,631	
1985	286,111	34.5	9,870,841	
1986	24,874	33.5	833,287	
1987	10,503	32.5	341,349	
1988	3,628	31.5	114,283	
1989	21,834	30.5	665,930	
1990	3,365	29.5	99,268	
1991	29,006	28.5	826,675	
1992	366,866	27.5	10,088,803	
1993	44,541	26.5	1,180,345	
1994	408,788	25.5	10,424,085	
1996	57,892	23.5	1,360,467	
1997	57,927	22.5	1,303,360	
1998	3,722	21.5	80,033	
1999	44,381	20.5	909,806	
2000	68,984	19.5	1,345,192	
2001	59,401	18.5	1,098,914	
2002	102,446	17.5	1,792,805	
2003	94,631	16.5	1,561,407	
2004	150,009	15.5	2,325,138	
2005	54,058	14.5	783,841	
2006	130,549	13.5	1,762,415	
2007	116,602	12.5	1,457,530	
2008	1,123,276	11.5	12,917,672	
2009	411,203	10.5	4,317,634	
2010	88,913	9.5	844,677	
2011	70,219	8.5	596,859	
2012	31,121	7.5	233,407	
2013	35,965	6.5	233,770	
2014	139,476	5.5	767,116	
2015	167,010	4.5	751,544	
2016	171,408	3.5	599,928	
2017	155,211	2.5	388,028	
2018	96,784	1.5	145,176	
2019	<u>232,521</u>	0.5	<u>116,261</u>	
	6,258,411		128,678,852	<u>20.56</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
KNOX LEE GENERATING PLANT - Account 311**

VINTAGE <u>YEAR</u>	SURVIVING <u>BALANCE</u>	AGE <u>(YEARS)</u>	DOLLAR <u>YEARS</u>	AVERAGE AGE <u>(YEARS)</u>
1949	1,158,560	70.5	81,678,463	
1950	34,379	69.5	2,389,315	
1951	75,827	68.5	5,194,150	
1952	548,504	67.5	37,024,002	
1956	612,519	63.5	38,894,975	
1958	3,141	61.5	193,173	
1962	3,388	57.5	194,810	
1964	734	55.5	40,737	
1968	1,412	51.5	72,740	
1971	177	48.5	8,594	
1973	6,595	46.5	306,668	
1974	3,749,564	45.5	170,605,167	
1975	8,510	44.5	378,700	
1979	652	40.5	26,387	
1982	459	37.5	17,199	
1984	38,630	35.5	1,371,373	
1997	6,821	22.5	153,478	
1998	21,723	21.5	467,045	
1999	37,001	20.5	758,527	
2000	35,414	19.5	690,568	
2001	4,155	18.5	76,863	
2002	135,490	17.5	2,371,067	
2003	47,783	16.5	788,417	
2004	144,191	15.5	2,234,959	
2005	100,682	14.5	1,459,895	
2007	230,359	12.5	2,879,482	
2008	149,976	11.5	1,724,727	
2009	111,513	10.5	1,170,881	
2010	12,295	9.5	116,806	
2011	207,619	8.5	1,764,764	
2012	28,699	7.5	215,242	
2013	90,590	6.5	588,834	
2014	3,861	5.5	21,233	
2015	140,244	4.5	631,096	
2016	330,767	3.5	1,157,683	
2017	241,465	2.5	603,663	
2018	<u>745,390</u>	1.5	<u>1,118,085</u>	
	9,069,087		359,389,768	<u>39.63</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
KNOX LEE GENERATING PLANT - Account 312**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
1973	193,223	46.5	8,984,892	
1974	14,490,667	45.5	659,325,349	
1975	80,289	44.5	3,572,869	
1976	5,341	43.5	232,347	
1977	36,418	42.5	1,547,747	
1982	3,302	37.5	123,816	
1983	6,194	36.5	226,070	
1984	32,503	35.5	1,153,841	
1985	2,973	34.5	102,551	
1988	330,268	31.5	10,403,430	
1989	19,294	30.5	588,468	
1991	8,515	28.5	242,691	
1992	18,698	27.5	514,184	
1993	93,325	26.5	2,473,102	
1994	69,267	25.5	1,766,320	
1996	788,389	23.5	18,527,136	
1997	1,834,728	22.5	41,281,390	
1998	578,459	21.5	12,436,871	
1999	279,608	20.5	5,731,956	
2000	1,622,372	19.5	31,636,255	
2001	338,844	18.5	6,268,617	
2002	563,851	17.5	9,867,385	
2003	98,134	16.5	1,619,209	
2004	190,120	15.5	2,946,861	
2005	76,706	14.5	1,112,235	
2006	90,261	13.5	1,218,517	
2007	410,727	12.5	5,134,093	
2008	686,138	11.5	7,890,582	
2009	14,351	10.5	150,688	
2010	217,863	9.5	2,069,700	
2011	101,340	8.5	861,393	
2012	500,882	7.5	3,756,614	
2013	1,482,682	6.5	9,637,432	
2014	761,160	5.5	4,186,381	
2015	1,237,505	4.5	5,568,774	
2016	1,203,169	3.5	4,211,091	
2017	419,317	2.5	1,048,293	
2018	<u>1,127,652</u>	1.5	<u>1,691,478</u>	
	30,014,534		870,110,628	<u>28.99</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
KNOX LEE GENERATING PLANT - Account 314**

VINTAGE YEAR	SURVIVING BALANCE	AGE (YEARS)	DOLLAR YEARS	AVERAGE AGE (YEARS)
1974	9,576,177	45.5	435,716,069	
1975	27,230	44.5	1,211,718	
1976	1,162	43.5	50,536	
1979	4,582	40.5	185,583	
1981	4,800	38.5	184,789	
1982	5,730	37.5	214,878	
1983	631	36.5	23,017	
1988	3,987	31.5	125,602	
1997	194,936	22.5	4,386,059	
1999	13,276	20.5	272,165	
2000	986,866	19.5	19,243,886	
2001	11,078	18.5	204,952	
2002	60,315	17.5	1,055,513	
2003	12,568	16.5	207,368	
2005	53,760	14.5	779,514	
2008	792,627	11.5	9,115,210	
2009	372,743	10.5	3,913,797	
2010	34,470	9.5	327,462	
2011	162,071	8.5	1,377,605	
2012	68,886	7.5	516,645	
2013	334,361	6.5	2,173,345	
2014	173,689	5.5	955,291	
2015	61,477	4.5	276,647	
2017	1,914,804	2.5	4,787,010	
2018	<u>731,129</u>	1.5	<u>1,096,694</u>	
	15,603,354		488,401,355	<u>31.30</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
KNOX LEE GENERATING PLANT - Account 315**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
1950	131,602	69.5	9,146,358	
1952	199,653	67.5	13,476,554	
1953	6,986	66.5	464,546	
1956	234,781	63.5	14,908,581	
1957	687	62.5	42,939	
1958	3,528	61.5	216,972	
1959	3,477	60.5	210,359	
1961	3,282	58.5	191,997	
1967	361	52.5	18,953	
1970	1,327	49.5	65,687	
1972	10,409	47.5	494,443	
1974	766,620	45.5	34,881,208	
1975	2,321	44.5	103,273	
1976	55,249	43.5	2,403,317	
1982	37,908	37.5	1,421,545	
1985	15,202	34.5	524,453	
1986	380,309	33.5	12,740,342	
1987	2,706	32.5	87,951	
1988	1,931	31.5	60,838	
1997	27,371	22.5	615,836	
1998	22,986	21.5	494,191	
1999	28,047	20.5	574,954	
2000	34	19.5	663	
2005	133,473	14.5	1,935,357	
2007	8,727	12.5	109,086	
2008	422,547	11.5	4,859,290	
2009	12,067	10.5	126,699	
2010	5,997	9.5	56,969	
2011	133,558	8.5	1,135,243	
2012	963,401	7.5	7,225,504	
2013	15,925	6.5	103,511	
2014	15,261	5.5	83,938	
2015	165,456	4.5	744,552	
2016	5,434	3.5	19,018	
2017	182,214	2.5	455,535	
2018	<u>663,044</u>	1.5	<u>994,566</u>	
	4,663,877		110,995,228	<u>23.80</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
KNOX LEE GENERATING PLANT - Account 316**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
1976	6,284	43.5	273,339	
1977	3,885	42.5	165,100	
1978	4,130	41.5	171,383	
1979	18,469	40.5	747,977	
1980	1,749	39.5	69,070	
1981	4,035	38.5	155,343	
1982	49,346	37.5	1,850,475	
1983	1,711	36.5	62,459	
1984	554	35.5	19,662	
1985	1,907	34.5	65,802	
1986	423	33.5	14,181	
1987	13,534	32.5	439,841	
1988	1,620	31.5	51,028	
1989	6,511	30.5	198,592	
1990	9,299	29.5	274,314	
1991	9,057	28.5	258,135	
1992	56,368	27.5	1,550,123	
1993	147,923	26.5	3,919,957	
1994	14,561	25.5	371,309	
1995	168,207	24.5	4,121,076	
1998	67,992	21.5	1,461,837	
1999	489,907	20.5	10,043,101	
2000	429	19.5	8,359	
2001	135,934	18.5	2,514,775	
2002	19,363	17.5	338,844	
2004	68,548	15.5	1,062,487	
2005	28,076	14.5	407,097	
2006	6,079	13.5	82,073	
2007	7,225	12.5	90,319	
2008	9,576	11.5	110,124	
2009	20,545	10.5	215,726	
2010	53,882	9.5	511,882	
2011	7,597	8.5	64,573	
2012	23,908	7.5	179,308	
2013	162,696	6.5	1,057,523	
2014	109,110	5.5	600,106	
2015	59,319	4.5	266,935	
2016	49,821	3.5	174,374	
2017	28,440	2.5	71,099	
2018	<u>140,173</u>	1.5	210,260	
	2,008,192		34,249,968	<u>17.06</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
LIEBERMAN GENERATING PLANT - Account 311**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
1947	1,067,682	72.5	77,406,932	
1948	1,348	71.5	96,382	
1949	178,776	70.5	12,603,743	
1950	929	69.5	64,566	
1954	239	65.5	15,655	
1957	875,048	62.5	54,690,489	
1959	923,833	60.5	55,891,876	
1960	10,169	59.5	605,053	
1961	2,223	58.5	130,046	
1962	742	57.5	42,665	
1963	74	56.5	4,181	
1964	575	55.5	31,913	
1965	795	54.5	43,328	
1967	7,339	52.5	385,298	
1968	5,760	51.5	296,663	
1970	2,215	49.5	109,620	
1971	346	48.5	16,762	
1972	4,112	47.5	195,320	
1985	658	34.5	22,710	
1986	857	33.5	28,723	
1989	35,384	30.5	1,079,224	
1990	4,103	29.5	121,047	
1991	43,342	28.5	1,235,257	
1992	57,713	27.5	1,587,107	
1993	59,619	26.5	1,579,891	
1994	6,530	25.5	166,503	
1998	39,106	21.5	840,773	
1999	29,891	20.5	612,776	
2001	38,617	18.5	714,414	
2004	1,796	15.5	27,834	
2007	138,641	12.5	1,733,015	
2008	14,988	11.5	172,365	
2009	4,199	10.5	44,085	
2010	14,124	9.5	134,181	
2011	14,966	8.5	127,210	
2012	44,683	7.5	335,123	
2013	79,978	6.5	519,855	
2017	26,552	2.5	66,381	
2018	838,273	1.5	1,257,409	
2019	831,198	0.5	415,599	
	5,407,423		215,451,974	<u>39.84</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
LIEBERMAN GENERATING PLANT - Account 312**

VINTAGE YEAR	SURVIVING BALANCE	AGE (YEARS)	DOLLAR YEARS	AVERAGE AGE (YEARS)
1957	3,522,515	62.5	220,157,193	
1959	3,934,151	60.5	238,016,154	
1960	8,819	59.5	524,731	
1961	8,388	58.5	490,698	
1962	9,118	57.5	524,285	
1963	5,369	56.5	303,349	
1964	30,375	55.5	1,685,813	
1965	2,104	54.5	114,668	
1966	319	53.5	17,067	
1967	14,021	52.5	736,103	
1968	1,034	51.5	53,251	
1970	59,191	49.5	2,929,948	
1971	10,010	48.5	485,485	
1972	1,162	47.5	55,195	
1973	11,322	46.5	526,475	
1975	123,317	44.5	5,487,610	
1976	3,291	43.5	143,161	
1978	28,099	41.5	1,166,118	
1983	6,073	36.5	221,652	
1984	18,829	35.5	668,443	
1985	37	34.5	1,264	
1986	33,578	33.5	1,124,879	
1987	76,174	32.5	2,475,647	
1988	85,751	31.5	2,701,162	
1989	182,616	30.5	5,569,801	
1990	15,736	29.5	464,201	
1991	144,418	28.5	4,115,922	
1992	607,765	27.5	16,713,544	
1994	470,316	25.5	11,993,057	
1996	185,762	23.5	4,365,416	
1997	865,692	22.5	19,478,068	
1998	25,631	21.5	551,063	
1999	125,280	20.5	2,568,247	
2000	284,206	19.5	5,542,021	
2001	3,280,976	18.5	60,698,047	
2002	5,126	17.5	89,700	
2004	100,853	15.5	1,563,228	
2005	107,198	14.5	1,554,377	
2006	32,441	13.5	437,960	
2007	342,498	12.5	4,281,224	
2008	77,563	11.5	891,979	
2009	54,735	10.5	574,716	
2010	118,310	9.5	1,123,943	
2011	107,974	8.5	917,778	
2012	339,893	7.5	2,549,197	
2013	510,558	6.5	3,318,625	
2014	94,610	5.5	520,356	
2015	143,514	4.5	645,815	
2016	101,526	3.5	355,343	
2017	1,200,398	2.5	3,000,994	
2018	600,570	1.5	900,855	
2019	<u>1,260,516</u>	0.5	<u>630,258</u>	
	19,379,730		636,026,086	<u>32.82</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
LIEBERMAN GENERATING PLANT - Account 314**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
1957	3,424,425	62.5	214,026,554	
1959	3,652,302	60.5	220,964,252	
1960	3,506	59.5	208,607	
1961	122	58.5	7,137	
1962	1,300	57.5	74,750	
1963	430	56.5	24,295	
1965	3,204	54.5	174,618	
1966	836	53.5	44,726	
1967	539	52.5	28,298	
1971	937	48.5	45,445	
1980	77,344	39.5	3,055,080	
1983	57,679	36.5	2,105,291	
1984	649	35.5	23,028	
1986	4,241	33.5	142,069	
1988	5,267	31.5	165,897	
1989	19,142	30.5	583,831	
1997	22,332	22.5	502,464	
1998	19,602	21.5	421,433	
1999	52,562	20.5	1,077,529	
2000	13,443	19.5	262,130	
2001	758,813	18.5	14,038,045	
2002	79,616	17.5	1,393,288	
2003	38,308	16.5	632,086	
2006	216,491	13.5	2,922,630	
2007	953,278	12.5	11,915,977	
2008	16,873	11.5	194,041	
2009	33,149	10.5	348,063	
2011	140,803	8.5	1,196,822	
2016	278,660	3.5	975,308	
2017	767,538	2.5	1,918,845	
2018	<u>126,812</u>	1.5	<u>190,218</u>	
	10,770,201		479,662,757	<u>44.54</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
LIEBERMAN GENERATING PLANT - Account 315**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
1947	254,190	72.5	18,428,756	
1948	88	71.5	6,292	
1949	194,219	70.5	13,692,469	
1957	461,337	62.5	28,833,559	
1958	11,243	61.5	691,445	
1959	488,400	60.5	29,548,192	
1960	7,377	59.5	438,932	
1961	2,933	58.5	171,581	
1962	3	57.5	173	
1963	457	56.5	25,821	
1964	1,087	55.5	60,309	
1967	1,227	52.5	64,411	
1968	9,977	51.5	513,816	
1969	2,701	50.5	136,401	
1970	1,460	49.5	72,270	
1984	1,507	35.5	53,500	
1987	3,441	32.5	111,817	
1989	120	30.5	3,664	
1991	111,843	28.5	3,187,527	
1993	168	26.5	4,446	
2000	277	19.5	5,393	
2002	12,114	17.5	211,987	
2003	157,290	16.5	2,595,293	
2005	27,637	14.5	400,734	
2006	85,193	13.5	1,150,107	
2007	140,938	12.5	1,761,725	
2008	65,857	11.5	757,357	
2010	3,274	9.5	31,107	
2011	86,834	8.5	738,089	
2012	1,060,961	7.5	7,957,207	
2013	19,613	6.5	127,484	
2014	31,683	5.5	174,259	
2015	157,001	4.5	706,503	
2016	19,961	3.5	69,862	
2017	7,749	2.5	19,374	
2018	<u>40,888</u>	1.5	<u>61,332</u>	
	3,471,047		112,813,194	<u>32.50</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
LIEBERMAN GENERATING PLANT - Account 316**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
1976	493	43.5	21,425	
1978	402	41.5	16,674	
1980	245	39.5	9,687	
1981	734	38.5	28,245	
1982	1,648	37.5	61,809	
1983	515	36.5	18,814	
1984	463	35.5	16,433	
1985	2,419	34.5	83,443	
1986	1,612	33.5	53,995	
1987	11,084	32.5	360,221	
1989	3,147	30.5	95,982	
1990	1,774	29.5	52,327	
1991	3,924	28.5	111,836	
1992	28,141	27.5	773,876	
1993	28,439	26.5	753,631	
1994	34,374	25.5	876,533	
1997	55,726	22.5	1,253,845	
1998	20,873	21.5	448,779	
1999	4,671	20.5	95,761	
2000	16,937	19.5	330,281	
2001	317,935	18.5	5,881,797	
2002	165,956	17.5	2,904,234	
2003	253,464	16.5	4,182,150	
2005	172,783	14.5	2,505,360	
2006	17,441	13.5	235,455	
2007	314,579	12.5	3,932,238	
2008	85,073	11.5	978,342	
2009	84,939	10.5	891,860	
2010	23,323	9.5	221,565	
2011	106,569	8.5	905,833	
2012	106,098	7.5	795,737	
2013	93,736	6.5	609,284	
2014	8,722	5.5	47,971	
2015	44,358	4.5	199,610	
2016	49,951	3.5	174,830	
2017	37,881	2.5	94,702	
2018	127,097	1.5	190,645	
2019	<u>92,854</u>	0.5	<u>46,427</u>	
	2,320,380		30,261,637	<u>13.04</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
PIRKEY GENERATING PLANT - Account 311**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
1985	97,482,407	34.5	3,363,143,041	
1986	501,398	33.5	16,796,833	
1987	1,541,287	32.5	50,091,820	
1988	3,521	31.5	110,896	
1989	53,452	30.5	1,630,295	
1990	112,881	29.5	3,330,003	
1991	22,414	28.5	638,796	
1992	8,471	27.5	232,958	
1993	150,083	26.5	3,977,188	
1994	222,564	25.5	5,675,376	
1996	27,856	23.5	654,606	
1997	95,668	22.5	2,152,523	
1998	68,543	21.5	1,473,674	
1999	2,026	20.5	41,537	
2000	1,537,224	19.5	29,975,877	
2001	87,289	18.5	1,614,855	
2002	88,575	17.5	1,550,057	
2003	118,129	16.5	1,949,124	
2004	5,739	15.5	88,947	
2005	2,940,790	14.5	42,641,457	
2006	188,804	13.5	2,548,853	
2007	678,222	12.5	8,477,778	
2008	308,364	11.5	3,546,185	
2009	473,701	10.5	4,973,865	
2010	173,843	9.5	1,651,505	
2011	80,566	8.5	684,810	
2013	291,328	6.5	1,893,629	
2014	554,751	5.5	3,051,130	
2016	481,668	3.5	1,685,837	
2017	23,778	2.5	59,445	
2018	509,482	1.5	764,222	
2019	<u>509,736</u>	0.5	<u>254,868</u>	
	109,344,557		3,557,361,990	<u>32.53</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
PIRKEY GENERATING PLANT - Account 312**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
1985	211,465,427	34.5	7,295,557,233	
1986	14,182	33.5	475,081	
1987	187,436	32.5	6,091,671	
1988	318,159	31.5	10,022,008	
1989	387,109	30.5	11,806,832	
1990	298,354	29.5	8,801,444	
1991	807,311	28.5	23,008,362	
1992	659,111	27.5	18,125,541	
1993	773,494	26.5	20,497,578	
1994	1,186,708	25.5	30,261,042	
1995	1,068,923	24.5	26,188,621	
1996	3,718,250	23.5	87,378,864	
1997	2,885,782	22.5	64,930,094	
1998	460,191	21.5	9,894,096	
1999	425,405	20.5	8,720,793	
2000	864,797	19.5	16,863,538	
2001	972,272	18.5	17,987,036	
2002	3,348,560	17.5	58,599,801	
2003	3,205,846	16.5	52,896,461	
2004	477,527	15.5	7,401,663	
2005	4,912,598	14.5	71,232,671	
2006	17,147,087	13.5	231,485,676	
2007	1,641,615	12.5	20,520,186	
2008	4,202,166	11.5	48,324,911	
2009	8,046,786	10.5	84,491,248	
2010	3,109,473	9.5	29,539,997	
2011	12,916,139	8.5	109,787,177	
2012	3,286,411	7.5	24,648,083	
2013	7,067,494	6.5	45,938,712	
2014	5,504,892	5.5	30,276,904	
2015	43,551,438	4.5	195,981,470	
2016	1,342,478	3.5	4,698,674	
2017	6,546,916	2.5	16,367,289	
2018	2,496,974	1.5	3,745,462	
2019	<u>24,265,424</u>	0.5	<u>12,132,712</u>	
	379,562,731		8,704,678,931	<u>22.93</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
PIRKEY GENERATING PLANT - Account 314**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
1985	46,004,919	34.5	1,587,169,712	
1988	2,601	31.5	81,921	
1989	1,288	30.5	39,297	
1997	76,368	22.5	1,718,285	
1998	337,493	21.5	7,256,096	
1999	14,717	20.5	301,700	
2000	216,002	19.5	4,212,040	
2001	1,592,078	18.5	29,453,441	
2002	177,901	17.5	3,113,268	
2003	134,281	16.5	2,215,639	
2005	25,110	14.5	364,093	
2006	270,331	13.5	3,649,463	
2007	210,268	12.5	2,628,353	
2008	20,602	11.5	236,918	
2009	76,500	10.5	803,252	
2010	228,408	9.5	2,169,872	
2012	1,444,087	7.5	10,830,652	
2013	92,075	6.5	598,490	
2017	13,597	2.5	33,993	
2019	12,131	0.5	6,065	
	50,950,757		1,656,882,550	<u>32.52</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
PIRKEY GENERATING PLANT - Account 315**

VINTAGE <u>YEAR</u>	SURVIVING <u>BALANCE</u>	AGE <u>(YEARS)</u>	DOLLAR <u>YEARS</u>	AVERAGE AGE <u>(YEARS)</u>
1985	11,593,467	34.5	399,974,609	
1986	79,400	33.5	2,659,909	
1988	10,655	31.5	335,635	
1989	335	30.5	10,208	
1996	54,595	23.5	1,282,976	
1997	27,996	22.5	629,906	
1998	65,221	21.5	1,402,251	
1999	82,728	20.5	1,695,926	
2000	196,930	19.5	3,840,142	
2001	387,814	18.5	7,174,554	
2002	110,863	17.5	1,940,101	
2003	125,077	16.5	2,063,778	
2004	39,194	15.5	607,509	
2005	1,009,978	14.5	14,644,675	
2006	202,409	13.5	2,732,518	
2007	19,713	12.5	246,406	
2008	511,168	11.5	5,878,436	
2009	429,833	10.5	4,513,245	
2010	129,878	9.5	1,233,844	
2012	651,059	7.5	4,882,943	
2013	150,279	6.5	976,811	
2014	40,489	5.5	222,692	
2015	625,843	4.5	2,816,295	
2016	894,200	3.5	3,129,699	
2017	157,347	2.5	393,368	
2018	455,814	1.5	683,721	
2019	<u>348,987</u>	0.5	<u>174,493</u>	
	18,401,272		466,146,650	<u>25.33</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
PIRKEY GENERATING PLANT - Account 316**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
1984	9,340,087	35.5	331,573,079	
1986	1,016,397	33.5	34,049,289	
1987	64,720	32.5	2,103,415	
1988	138,802	31.5	4,372,253	
1989	55,512	30.5	1,693,106	
1990	63,595	29.5	1,876,046	
1991	463,167	28.5	13,200,253	
1992	508,965	27.5	13,996,524	
1993	170,502	26.5	4,518,307	
1994	638,545	25.5	16,282,898	
1996	48,929	23.5	1,149,842	
1997	239,081	22.5	5,379,323	
1998	274,662	21.5	5,905,229	
1999	223,947	20.5	4,590,916	
2000	91,187	19.5	1,778,156	
2001	320,091	18.5	5,921,679	
2002	286,597	17.5	5,015,440	
2003	418,898	16.5	6,911,819	
2004	256,498	15.5	3,975,715	
2005	724,218	14.5	10,501,161	
2006	708,543	13.5	9,565,334	
2007	459,132	12.5	5,739,154	
2008	187,947	11.5	2,161,392	
2009	157,031	10.5	1,648,828	
2010	204,071	9.5	1,938,678	
2011	25,326	8.5	215,271	
2012	82,438	7.5	618,289	
2013	3,925	6.5	25,513	
2014	160,076	5.5	880,416	
2015	61,940	4.5	278,732	
2016	159,353	3.5	557,736	
2017	384,128	2.5	960,319	
2018	386,707	1.5	580,061	
2019	<u>1,076,598</u>	0.5	<u>538,299</u>	
	19,401,615		500,502,472	<u>25.80</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
STALL GENERATING PLANT - Account 311**

VINTAGE <u>YEAR</u>	SURVIVING <u>BALANCE</u>	AGE <u>(YEARS)</u>	DOLLAR <u>YEARS</u>	AVERAGE AGE <u>(YEARS)</u>
2010	51,499,470	9.5	489,244,968	
2011	112,813	8.5	958,913	
2012	104,357	7.5	782,676	
2014	66,915	5.5	368,035	
2015	317,170	4.5	1,427,265	
2017	3,834	2.5	9,585	
2018	137,001	1.5	205,502	
2019	<u>1,808,306</u>	0.5	<u>904,153</u>	
	54,049,867		493,901,097	<u>9.14</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
STALL GENERATING PLANT - Account 312**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
2010	82,284,022	9.5	781,698,206	
2011	203,540	8.5	1,730,087	
2012	258,810	7.5	1,941,074	
2013	85,233	6.5	554,012	
2014	163,401	5.5	898,707	
2015	291,426	4.5	1,311,416	
2016	484,189	3.5	1,694,661	
2017	369,304	2.5	923,260	
2018	739,115	1.5	1,108,672	
2019	<u>1,759,458</u>	0.5	<u>879,729</u>	
	86,638,497		792,739,824	<u>9.15</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
STALL GENERATING PLANT - Account 314**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
2010	127,693,312	9.5	1,213,086,465	
2011	4,706,818	8.5	40,007,951	
2012	378,561	7.5	2,839,207	
2013	3,968,480	6.5	25,795,120	
2014	8,670,706	5.5	47,688,882	
2015	2,770,456	4.5	12,467,050	
2016	988,412	3.5	3,459,440	
2017	5,111,124	2.5	12,777,811	
2018	12,946,868	1.5	19,420,302	
2019	<u>71,113</u>	0.5	<u>35,556</u>	
	167,305,849		1,377,577,784	<u>8.23</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
STALL GENERATING PLANT - Account 315**

VINTAGE <u>YEAR</u>	SURVIVING <u>BALANCE</u>	AGE <u>(YEARS)</u>	DOLLAR <u>YEARS</u>	AVERAGE AGE <u>(YEARS)</u>
2010	39,171,419	9.5	372,128,482	
2011	37,304	8.5	317,087	
2014	419,382	5.5	2,306,601	
2016	<u>41,184</u>	3.5	<u>144,142</u>	
	39,669,289		374,896,312	<u>9.45</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
STALL GENERATING PLANT - Account 316**

VINTAGE <u>YEAR</u>	SURVIVING <u>BALANCE</u>	AGE <u>(YEARS)</u>	DOLLAR <u>YEARS</u>	AVERAGE AGE <u>(YEARS)</u>
2010	82,112,580	9.5	780,069,515	
2011	277,889	8.5	2,362,058	
2012	185,177	7.5	1,388,824	
2013	76,269	6.5	495,747	
2015	13,705	4.5	61,673	
2016	31,584	3.5	110,545	
2017	118,149	2.5	295,373	
2018	518,838	1.5	778,257	
2019	<u>470,748</u>	0.5	<u>235,374</u>	
	83,804,940		785,797,366	<u>9.38</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
TURK GENERATING PLANT - Account 311**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
2012	261,355,464	7.5	1,960,165,976	
2013	1,689,181	6.5	10,979,678	
2014	13,270,725	5.5	72,988,987	
2015	618,594	4.5	2,783,671	
2016	2,513,840	3.5	8,798,441	
2017	229,893	2.5	574,732	
2018	2,682,236	1.5	4,023,354	
2019	<u>5,132,585</u>	0.5	<u>2,566,292</u>	
	287,492,517		2,062,881,131	<u>7.18</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
TURK GENERATING PLANT - Account 312**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
2010	31,300	9.5	297,350	
2011	317	8.5	2,698	
2012	965,985,250	7.5	7,244,889,375	
2013	2,230,711	6.5	14,499,622	
2014	2,508,353	5.5	13,795,943	
2015	2,006,695	4.5	9,030,127	
2016	8,832,646	3.5	30,914,261	
2017	1,071,417	2.5	2,678,543	
2018	9,051,626	1.5	13,577,438	
2019	<u>722,776</u>	0.5	<u>361,388</u>	
	992,441,092		7,330,046,745	<u>7.39</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
TURK GENERATING PLANT - Account 314**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
2012	232,260,026	7.5	1,741,950,195	
2013	201,554	6.5	1,310,104	
2014	18,016	5.5	99,086	
2015	21,431	4.5	96,438	
2016	25,120	3.5	87,920	
2017	60,118	2.5	150,295	
2018	39,625	1.5	59,438	
2019	<u>3,983</u>	0.5	<u>1,992</u>	
	232,629,873		1,743,755,468	<u>7.50</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
TURK GENERATING PLANT - Account 315**

<u>VINTAGE</u> <u>YEAR</u>	<u>SURVIVING</u> <u>BALANCE</u>	<u>AGE</u> <u>(YEARS)</u>	<u>DOLLAR</u> <u>YEARS</u>	<u>AVERAGE AGE</u> <u>(YEARS)</u>
2012	92,419,412	7.5	693,145,590	
2013	110,999	6.5	721,496	
2014	12,372	5.5	68,044	
2015	24,249	4.5	109,119	
2016	748,987	3.5	2,621,455	
2017	14,701	2.5	36,753	
2018	17,032	1.5	25,549	
2019	<u>7,045</u>	0.5	<u>3,522</u>	
	93,354,798		696,731,528	<u>7.46</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
TURK GENERATING PLANT - Account 316**

VINTAGE <u>YEAR</u>	SURVIVING <u>BALANCE</u>	AGE <u>(YEARS)</u>	DOLLAR <u>YEARS</u>	AVERAGE AGE <u>(YEARS)</u>
2011	1,884,748	8.5	16,020,362	
2012	44,817,024	7.5	336,127,683	
2013	429,721	6.5	2,793,185	
2014	442,583	5.5	2,434,205	
2015	70,949	4.5	319,269	
2016	141,830	3.5	496,406	
2017	36,468	2.5	91,170	
2018	358,266	1.5	537,398	
2019	<u>371,561</u>	0.5	<u>185,781</u>	
	48,553,150		359,005,459	<u>7.39</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
WELSH GENERATING PLANT - Account 311**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
1967	3,165	52.5	166,160	
1968	1,175	51.5	60,502	
1977	26,578,146	42.5	1,129,571,191	
1978	598,696	41.5	24,845,866	
1979	21,861	40.5	885,373	
1980	507,990	39.5	20,065,594	
1982	9,824,249	37.5	368,409,348	
1984	130,953	35.5	4,648,849	
1985	30,028	34.5	1,035,975	
1986	8,152	33.5	273,095	
1987	6,207	32.5	201,714	
1989	2,281	30.5	69,560	
1990	8,422	29.5	248,448	
1991	28,067	28.5	799,910	
1992	25,674	27.5	706,023	
1996	135,902	23.5	3,193,700	
1997	688,283	22.5	15,486,374	
1998	109,156	21.5	2,346,848	
1999	17,166	20.5	351,900	
2000	210,821	19.5	4,111,009	
2001	1,674,607	18.5	30,980,230	
2002	11,604	17.5	203,074	
2003	8,239	16.5	135,946	
2004	129,099	15.5	2,001,032	
2005	1,788,436	14.5	25,932,316	
2006	1,108,734	13.5	14,967,903	
2007	6,889,173	12.5	86,114,660	
2008	9,673,097	11.5	111,240,613	
2009	1,115,940	10.5	11,717,371	
2010	689,879	9.5	6,553,854	
2011	271,201	8.5	2,305,205	
2012	80,614	7.5	604,602	
2013	439,665	6.5	2,857,825	
2014	249,674	5.5	1,373,209	
2015	556,261	4.5	2,503,175	
2016	7,843,413	3.5	27,451,946	
2017	106,802	2.5	267,004	
2018	1,032,000	1.5	1,548,000	
2019	<u>331,471</u>	0.5	<u>165,735</u>	
	72,936,301		1,906,401,139	<u>26.14</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
WELSH GENERATING PLANT - Account 312**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
1977	49,037,421	42.5	2,084,090,380	
1978	1,405,785	41.5	58,340,061	
1979	176,681	40.5	7,155,598	
1980	742,219	39.5	29,317,658	
1981	823,980	38.5	31,723,223	
1982	63,815,049	37.5	2,393,064,351	
1983	394,348	36.5	14,393,717	
1984	276,256	35.5	9,807,101	
1985	74,365	34.5	2,565,590	
1986	132,307	33.5	4,432,285	
1987	369,702	32.5	12,015,313	
1988	382,984	31.5	12,064,007	
1989	184,947	30.5	5,640,869	
1990	504,381	29.5	14,879,248	
1991	235,101	28.5	6,700,377	
1992	2,141,512	27.5	58,891,590	
1993	1,589,408	26.5	42,119,305	
1994	988,299	25.5	25,201,617	
1995	40,482	24.5	991,810	
1996	2,989,586	23.5	70,255,278	
1997	363,982	22.5	8,189,604	
1998	1,707,929	21.5	36,720,472	
1999	3,042,532	20.5	62,371,912	
2000	3,325,383	19.5	64,844,968	
2001	4,387,325	18.5	81,165,520	
2002	12,972,304	17.5	227,015,327	
2003	115,363	16.5	1,903,492	
2004	2,247,104	15.5	34,830,119	
2005	18,970,543	14.5	275,072,875	
2006	21,744,192	13.5	293,546,590	
2007	18,354,411	12.5	229,430,135	
2008	11,429,362	11.5	131,437,657	
2009	1,217,925	10.5	12,788,218	
2010	790,718	9.5	7,511,822	
2011	3,187,881	8.5	27,096,991	
2012	3,516,835	7.5	26,376,262	
2013	2,035,970	6.5	13,233,804	
2014	869,712	5.5	4,783,414	
2015	1,370,921	4.5	6,169,145	
2016	331,982,836	3.5	1,161,939,926	
2017	1,937,620	2.5	4,844,049	
2018	8,975,780	1.5	13,463,670	
2019	<u>2,748,161</u>	0.5	<u>1,374,080</u>	
	583,599,604		7,609,759,430	<u>13.04</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
WELSH GENERATING PLANT - Account 31211 Railcars**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
1997	3,669,100	22.5	82,554,753	
2002	<u>8,445,103</u>	17.5	<u>147,789,302</u>	
	12,114,203		230,344,055	<u>19.01</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
WELSH GENERATING PLANT - Account 314**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
1977	16,449,434	42.5	699,100,960	
1978	33,182	41.5	1,377,040	
1980	3,972,978	39.5	156,932,635	
1982	32,809,742	37.5	1,230,365,318	
1983	149,920	36.5	5,472,088	
1984	14,180	35.5	503,378	
1986	19,661	33.5	658,640	
1987	19,096	32.5	620,607	
1988	7,294	31.5	229,760	
1996	1,176,994	23.5	27,659,358	
1997	67,584	22.5	1,520,642	
1998	351,471	21.5	7,556,627	
1999	1,818,673	20.5	37,282,800	
2000	146,798	19.5	2,862,558	
2001	451,203	18.5	8,347,255	
2002	134,370	17.5	2,351,481	
2003	219,337	16.5	3,619,065	
2004	605,011	15.5	9,377,663	
2005	3,907,574	14.5	56,659,821	
2006	3,739,618	13.5	50,484,845	
2007	5,148,835	12.5	64,360,432	
2008	3,117,080	11.5	35,846,423	
2009	652,990	10.5	6,856,392	
2010	3,555,688	9.5	33,779,036	
2011	424,394	8.5	3,607,351	
2012	265,811	7.5	1,993,585	
2013	594,985	6.5	3,867,403	
2014	763,289	5.5	4,198,090	
2015	109,429	4.5	492,431	
2016	55,942,262	3.5	195,797,916	
2017	421,432	2.5	1,053,581	
2018	4,350,389	1.5	6,525,583	
2019	<u>608,205</u>	0.5	<u>304,103</u>	
	142,048,909		2,661,664,867	<u>18.74</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
WELSH GENERATING PLANT - Account 315**

VINTAGE <u>YEAR</u>	SURVIVING <u>BALANCE</u>	AGE <u>(YEARS)</u>	DOLLAR <u>YEARS</u>	AVERAGE AGE <u>(YEARS)</u>
1977	4,497,548	42.5	191,145,804	
1978	103,843	41.5	4,309,503	
1979	1,881	40.5	76,193	
1980	242,158	39.5	9,565,235	
1981	60,603	38.5	2,333,221	
1982	4,865,527	37.5	182,457,257	
1985	4,777	34.5	164,795	
1991	66,188	28.5	1,886,366	
1996	949,580	23.5	22,315,118	
1997	109,802	22.5	2,470,555	
1998	196,758	21.5	4,230,297	
1999	366,003	20.5	7,503,056	
2000	108,431	19.5	2,114,405	
2001	223,478	18.5	4,134,351	
2002	1,705,853	17.5	29,852,423	
2003	449,528	16.5	7,417,214	
2004	64,693	15.5	1,002,741	
2005	379,076	14.5	5,496,607	
2006	193,176	13.5	2,607,870	
2007	129,167	12.5	1,614,583	
2008	590,368	11.5	6,789,235	
2009	135,401	10.5	1,421,705	
2010	435,900	9.5	4,141,052	
2011	81,796	8.5	695,265	
2012	2,771,719	7.5	20,787,890	
2013	1,674,444	6.5	10,883,887	
2014	2,284,017	5.5	12,562,091	
2015	35,710	4.5	160,693	
2016	18,401,918	3.5	64,406,713	
2017	177,871	2.5	444,676	
2018	5,549,209	1.5	8,323,814	
2019	<u>228,277</u>	0.5	<u>114,138</u>	
	47,084,699		613,428,753	<u>13.03</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
WELSH GENERATING PLANT - Account 316**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
1977	1,587,662	42.5	67,475,640	
1978	200,103	41.5	8,304,254	
1979	6,464	40.5	261,779	
1982	698,378	37.5	26,189,192	
1983	110,127	36.5	4,019,641	
1984	20,678	35.5	734,070	
1985	236,540	34.5	8,160,637	
1986	136,250	33.5	4,564,386	
1987	17,933	32.5	582,810	
1988	143,878	31.5	4,532,168	
1989	9,508	30.5	289,979	
1990	88,387	29.5	2,607,402	
1991	22,097	28.5	629,761	
1992	296,365	27.5	8,150,050	
1993	694,981	26.5	18,416,997	
1994	1,908,615	25.5	48,669,679	
1996	1,284	23.5	30,165	
1997	109,676	22.5	2,467,703	
1998	808,206	21.5	17,376,433	
2000	962,125	19.5	18,761,433	
2001	732,332	18.5	13,548,145	
2002	334,184	17.5	5,848,219	
2003	44,768	16.5	738,665	
2004	1,169,352	15.5	18,124,949	
2005	1,266,305	14.5	18,361,430	
2006	2,011,121	13.5	27,150,128	
2007	1,188,263	12.5	14,853,292	
2008	1,702,416	11.5	19,577,779	
2009	322,017	10.5	3,381,179	
2010	843,152	9.5	8,009,942	
2011	553,896	8.5	4,708,120	
2012	160,135	7.5	1,201,011	
2013	163,594	6.5	1,063,364	
2014	407,039	5.5	2,238,712	
2015	614,373	4.5	2,764,679	
2016	782,967	3.5	2,740,384	
2017	179,032	2.5	447,579	
2018	455,472	1.5	683,208	
2019	<u>434,321</u>	0.5	<u>217,160</u>	
	21,423,993		387,882,124	<u>18.11</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
WILKES GENERATING PLANT - Account 311**

VINTAGE <u>YEAR</u>	SURVIVING <u>BALANCE</u>	AGE <u>(YEARS)</u>	DOLLAR <u>YEARS</u>	AVERAGE AGE <u>(YEARS)</u>
1964	2,408,773	55.5	133,686,905	
1970	1,532,790	49.5	75,873,111	
1971	1,906,930	48.5	92,486,109	
1972	337,099	47.5	16,012,203	
1973	135	46.5	6,278	
1977	151	42.5	6,434	
1987	71,917	32.5	2,337,309	
1988	21,954	31.5	691,559	
1992	16,541	27.5	454,873	
1997	31,343	22.5	705,208	
1998	16,238	21.5	349,125	
2000	28,691	19.5	559,467	
2003	13,892	16.5	229,217	
2004	71,984	15.5	1,115,751	
2005	171,275	14.5	2,483,485	
2008	1,487	11.5	17,106	
2010	70,671	9.5	671,379	
2012	513,391	7.5	3,850,429	
2013	43,961	6.5	285,745	
2015	170,589	4.5	767,649	
2016	287,627	3.5	1,006,696	
2017	134,860	2.5	337,149	
2018	470,577	1.5	705,866	
2019	<u>22,782</u>	0.5	<u>11,391</u>	
	8,345,659		334,650,444	<u>40.10</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
WILKES GENERATING PLANT - Account 312**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
1964	4,961,752	55.5	275,377,252	
1965	3,544	54.5	193,169	
1967	16,278	52.5	854,608	
1970	8,225,094	49.5	407,142,138	
1971	7,715,154	48.5	374,184,963	
1972	354,627	47.5	16,844,772	
1973	113	46.5	5,268	
1974	41,412	45.5	1,884,242	
1975	9,929	44.5	441,823	
1977	10,583	42.5	449,766	
1978	1,851	41.5	76,809	
1980	3,221	39.5	127,244	
1984	14,511	35.5	515,124	
1986	4,418	33.5	148,014	
1988	5,531	31.5	174,211	
1989	4,212	30.5	128,464	
1992	454,980	27.5	12,511,940	
1993	85,659	26.5	2,269,954	
1994	572,993	25.5	14,611,310	
1995	1,100,360	24.5	26,958,809	
1996	319,376	23.5	7,505,332	
1997	361,474	22.5	8,133,174	
1998	44,224	21.5	950,814	
1999	113,102	20.5	2,318,590	
2000	12,881	19.5	251,184	
2001	134,001	18.5	2,479,013	
2002	1,167,524	17.5	20,431,671	
2003	274,916	16.5	4,536,116	
2004	59,133	15.5	916,557	
2005	86,473	14.5	1,253,851	
2006	169,662	13.5	2,290,443	
2007	124,173	12.5	1,552,162	
2008	20,821	11.5	239,441	
2009	37,608	10.5	394,882	
2010	618,776	9.5	5,878,374	
2011	564,470	8.5	4,797,997	
2012	2,630,740	7.5	19,730,552	
2013	4,823,293	6.5	31,351,408	
2014	729,557	5.5	4,012,564	
2015	928,020	4.5	4,176,091	
2016	1,094,360	3.5	3,830,258	
2017	8,121,057	2.5	20,302,643	
2018	7,331,173	1.5	10,996,760	
2019	<u>542,242</u>	0.5	<u>271,121</u>	
	53,895,276		1,293,500,878	<u>24.00</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
WILKES GENERATING PLANT - Account 314**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
1964	3,628,525	55.5	201,383,159	
1965	1,732	54.5	94,394	
1967	3,120	52.5	163,778	
1970	8,411,541	49.5	416,371,300	
1971	7,546,596	48.5	366,009,887	
1972	1,150,980	47.5	54,671,563	
1975	24,856	44.5	1,106,098	
1978	4,440	41.5	184,271	
1981	11,504	38.5	442,904	
1988	1,950	31.5	61,410	
1989	32,637	30.5	995,415	
1990	5,702	29.5	168,211	
1991	20,104	28.5	572,956	
1995	6,411	24.5	157,065	
1996	474,382	23.5	11,147,989	
1998	162,490	21.5	3,493,541	
1999	24,471	20.5	501,663	
2000	1,067,505	19.5	20,816,352	
2001	153,530	18.5	2,840,308	
2002	149,622	17.5	2,618,386	
2003	1,029,287	16.5	16,983,230	
2005	136,612	14.5	1,980,872	
2006	20,144	13.5	271,950	
2007	191,746	12.5	2,396,820	
2008	341,447	11.5	3,926,635	
2009	410,531	10.5	4,310,572	
2010	105,142	9.5	998,845	
2011	1,034,329	8.5	8,791,800	
2012	2,229,619	7.5	16,722,143	
2013	396,918	6.5	2,579,969	
2015	6,881,582	4.5	30,967,120	
2016	267,993	3.5	937,975	
2017	1,900,563	2.5	4,751,407	
2018	<u>60,990</u>	1.5	<u>91,485</u>	
	37,889,001		1,179,511,473	<u>31.13</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
WILKES GENERATING PLANT - Account 315**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
1964	654,743	55.5	36,338,260	
1966	507	53.5	27,125	
1967	614	52.5	32,235	
1969	115	50.5	5,828	
1970	324,616	49.5	16,068,481	
1971	686,907	48.5	33,314,998	
1972	60,744	47.5	2,885,324	
1973	228	46.5	10,602	
1976	1,434	43.5	62,362	
1981	66,108	38.5	2,545,172	
1988	3,899	31.5	122,819	
1993	12,493	26.5	331,072	
1997	97,814	22.5	2,200,811	
1998	343,440	21.5	7,383,949	
2000	25,458	19.5	496,421	
2001	28,691	18.5	530,780	
2003	168,397	16.5	2,778,544	
2004	386	15.5	5,988	
2005	35,488	14.5	514,574	
2006	40,814	13.5	550,995	
2008	4,414,833	11.5	50,770,579	
2009	143,736	10.5	1,509,232	
2011	885,173	8.5	7,523,972	
2012	213,388	7.5	1,600,408	
2013	107,228	6.5	696,980	
2014	118,191	5.5	650,051	
2015	525,849	4.5	2,366,320	
2016	869,812	3.5	3,044,343	
2017	103,910	2.5	259,775	
2018	32,785	1.5	49,178	
2019	<u>348,397</u>	0.5	174,198	
	10,316,197		174,851,376	<u>16.95</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
WILKES GENERATING PLANT - Account 316**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
1970	403,722	49.5	19,984,230	
1976	1,192	43.5	51,862	
1977	1,442	42.5	61,305	
1978	1,092	41.5	45,315	
1979	1,167	40.5	47,281	
1980	15,741	39.5	621,786	
1981	6,617	38.5	254,742	
1982	607	37.5	22,751	
1985	13,167	34.5	454,251	
1986	909	33.5	30,450	
1987	26,320	32.5	855,395	
1988	9,295	31.5	292,785	
1989	30,954	30.5	944,099	
1990	2,738	29.5	80,756	
1991	5,575	28.5	158,879	
1992	57,438	27.5	1,579,547	
1993	205,389	26.5	5,442,820	
1994	64,790	25.5	1,652,155	
1996	249,344	23.5	5,859,595	
1997	52,722	22.5	1,186,254	
1998	91,249	21.5	1,961,854	
1999	171,681	20.5	3,519,459	
2000	24,837	19.5	484,315	
2001	295,807	18.5	5,472,425	
2002	135,347	17.5	2,368,568	
2003	178,266	16.5	2,941,394	
2004	64,296	15.5	996,593	
2005	32,832	14.5	476,065	
2006	162,085	13.5	2,188,144	
2007	63,782	12.5	797,279	
2008	117,891	11.5	1,355,746	
2009	12,894	10.5	135,386	
2010	96,930	9.5	920,836	
2011	262,295	8.5	2,229,508	
2012	1,544,484	7.5	11,583,629	
2013	1,925,423	6.5	12,515,246	
2014	34,541	5.5	189,974	
2015	2,302,634	4.5	10,361,854	
2016	285,452	3.5	999,081	
2017	68,273	2.5	170,683	
2018	84,590	1.5	126,885	
2019	<u>39,963</u>	0.5	<u>19,981</u>	
	9,145,772		101,441,163	<u>11.09</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
MATTISON GENERATING PLANT - Account 341**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
2007	30,244,874	12.5	378,060,922	
2008	55,344	11.5	636,456	
2009	337,098	10.5	3,539,531	
2012	31,848	7.5	238,859	
2013	8,335	6.5	54,175	
2014	20,774	5.5	114,256	
2015	25,357	4.5	114,108	
2017	2,557	2.5	6,393	
2018	<u>67,098</u>	1.5	<u>100,647</u>	
	30,793,285		382,865,347	<u>12.43</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
MATTISON GENERATING PLANT - Account 344**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
2007	83,235,883	12.5	1,040,448,540	
2008	393,403	11.5	4,524,137	
2009	88,836	10.5	932,778	
2010	39,684	9.5	377,001	
2011	17,043	8.5	144,868	
2012	32,183	7.5	241,372	
2013	19,114	6.5	124,242	
2014	168,802	5.5	928,413	
2015	12,002	4.5	54,011	
2018	<u>1,741</u>	1.5	<u>2,611</u>	
	84,008,692		1,047,777,973	<u>12.47</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
MATTISON GENERATING PLANT - Account 345**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
2007	7,199,045	12.5	89,988,062	
2008	40,085	11.5	460,978	
2009	129,485	10.5	1,359,590	
2011	109,241	8.5	928,547	
2012	27,887	7.5	209,153	
2013	51,402	6.5	334,115	
2014	383,597	5.5	2,109,782	
2015	446,977	4.5	2,011,394	
2016	32,700	3.5	114,449	
2017	423,630	2.5	1,059,074	
2018	<u>154,239</u>	1.5	<u>231,359</u>	
	8,998,287		98,806,503	<u>10.98</u>

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE AGE OF SURVIVING PLANT
MATTISON GENERATING PLANT - Account 346**

<u>VINTAGE YEAR</u>	<u>SURVIVING BALANCE</u>	<u>AGE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE AGE (YEARS)</u>
2008	689	11.5	7,922	
2009	94,930	10.5	996,762	
2010	467,390	9.5	4,440,204	
2011	37,283	8.5	316,909	
2012	58,803	7.5	441,024	
2013	17,066	6.5	110,928	
2014	9,926	5.5	54,594	
2015	52,504	4.5	236,269	
2016	8,171	3.5	28,598	
2017	27,762	2.5	69,406	
2018	24,095	1.5	36,142	
2019	<u>31,283</u>	0.5	<u>15,642</u>	
	829,903		6,754,400	<u>8.14</u>

SOUTHWESTERN ELECTRIC POWER COMPANY

DEPRECIATION STUDY AS OF DECEMBER 31, 2019

PRODUCTION PLANT AVERAGE REMAINING LIFE

Interim Retirement Amount	0
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**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE REMAINING LIFE
ARSENAL HILL GENERATING PLANT - Account 311
RETIREMENT YEAR 2025
ANNUAL INTERIM RETIREMENT RATE = 0.00000**

<u>YEAR</u>	<u>AMOUNT RETIRED</u>	<u>REM LIFE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE REM LIFE</u>
2020	0	0.5	0	
2021	0	1.5	0	
2022	0	2.5	0	
2023	0	3.5	0	
2024	0	4.5	0	
2025	<u>6,523,578</u>	5.5	<u>35,879,679</u>	
TOTALS	6,523,578		35,879,679	<u>5.50</u>
Interim Retirement Amount			0	

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE REMAINING LIFE
ARSENAL HILL GENERATING PLANT - Account 312
RETIREMENT YEAR 2025**

ANNUAL INTERIM RETIREMENT RATE = 0.00000

<u>YEAR</u>	<u>AMOUNT RETIRED</u>	<u>REM LIFE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE REM LIFE</u>
2020	0	0.5	0	
2021	0	1.5	0	
2022	0	2.5	0	
2023	0	3.5	0	
2024	0	4.5	0	
2025	<u>7,190,747</u>	5.5	<u>39,549,109</u>	
TOTALS	<u>7,190,747</u>		<u>39,549,109</u>	<u>5.50</u>

Interim Retirement Amount 0

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE REMAINING LIFE
ARSENAL HILL GENERATING PLANT - Account 314
RETIREMENT YEAR 2025
ANNUAL INTERIM RETIREMENT RATE = 0.00000**

<u>YEAR</u>	<u>AMOUNT RETIRED</u>	<u>REM LIFE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE REM LIFE</u>
2020	0	0.5	0	
2021	0	1.5	0	
2022	0	2.5	0	
2023	0	3.5	0	
2024	0	4.5	0	
2025	<u>5,437,070</u>	5.5	<u>29,903,885</u>	
TOTALS	5,437,070		29,903,885	<u>5.50</u>
Interim Retirement Amount			0	

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE REMAINING LIFE
ARSENAL HILL GENERATING PLANT - Account 315
RETIREMENT YEAR 2025
ANNUAL INTERIM RETIREMENT RATE = 0.00000**

<u>YEAR</u>	<u>AMOUNT RETIRED</u>	<u>REM LIFE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE REM LIFE</u>
2020	0	0.5	0	
2021	0	1.5	0	
2022	0	2.5	0	
2023	0	3.5	0	
2024	0	4.5	0	
2025	<u>1,250,953</u>	5.5	<u>6,880,242</u>	
TOTALS	1,250,953		6,880,242	<u>5.50</u>

Interim Retirement Amount 0

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE REMAINING LIFE
ARSENAL HILL GENERATING PLANT - Account 316
RETIREMENT YEAR 2025**

ANNUAL INTERIM RETIREMENT RATE = 0.00000

<u>YEAR</u>	<u>AMOUNT RETIRED</u>	<u>REM LIFE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE REM LIFE</u>
2020	0	0.5	0	
2021	0	1.5	0	
2022	0	2.5	0	
2023	0	3.5	0	
2024	0	4.5	0	
2025	<u>7,211,222</u>	5.5	<u>39,661,721</u>	
TOTALS	7,211,222		39,661,721	<u>5.50</u>
Interim Retirement Amount			0	

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE REMAINING LIFE
FLINT CREEK GENERATING PLANT - Account 31211, Railcars
RETIREMENT YEAR 2038
ANNUAL INTERIM RETIREMENT RATE = 0.00000**

<u>YEAR</u>	<u>AMOUNT RETIRED</u>	<u>REM LIFE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE REM LIFE</u>
2020	0	0.5	0	
2021	0	1.5	0	
2022	0	2.5	0	
2023	0	3.5	0	
2024	0	4.5	0	
2025	0	5.5	0	
2026	0	6.5	0	
2027	0	7.5	0	
2028	0	8.5	0	
2029	0	9.5	0	
2030	0	10.5	0	
2031	0	11.5	0	
2032	0	12.5	0	
2033	0	13.5	0	
2034	0	14.5	0	
2035	0	15.5	0	
2036	0	16.5	0	
2037	0	17.5	0	
2038	<u>3,989,550</u>	18.5	<u>73,806,678</u>	
TOTALS	3,989,550		73,806,678	<u>18.50</u>

Interim Retirement Amount 0

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE REMAINING LIFE
FLINT CREEK GENERATING PLANT - Account 315
RETIREMENT YEAR 2038
ANNUAL INTERIM RETIREMENT RATE = 0.00000**

<u>YEAR</u>	<u>AMOUNT RETIRED</u>	<u>REM LIFE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE REM LIFE</u>
2020	0	0.5	0	
2021	0	1.5	0	
2022	0	2.5	0	
2023	0	3.5	0	
2024	0	4.5	0	
2025	0	5.5	0	
2026	0	6.5	0	
2027	0	7.5	0	
2028	0	8.5	0	
2029	0	9.5	0	
2030	0	10.5	0	
2031	0	11.5	0	
2032	0	12.5	0	
2033	0	13.5	0	
2034	0	14.5	0	
2035	0	15.5	0	
2036	0	16.5	0	
2037	0	17.5	0	
2038	<u>10,970,647</u>	18.5	<u>202,956,970</u>	
TOTALS	10,970,647		202,956,970	<u>18.50</u>

Interim Retirement Amount 0

Interim Retirement Amount	0
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**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE REMAINING LIFE
KNOX LEE GENERATING PLANT - Account 315
RETIREMENT YEAR 2039
ANNUAL INTERIM RETIREMENT RATE = 0.00000**

<u>YEAR</u>	<u>AMOUNT RETIRED</u>	<u>REM LIFE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE REM LIFE</u>
2020	0	0.5	0	
2021	0	1.5	0	
2022	0	2.5	0	
2023	0	3.5	0	
2024	0	4.5	0	
2025	0	5.5	0	
2026	0	6.5	0	
2027	0	7.5	0	
2028	0	8.5	0	
2029	0	9.5	0	
2030	0	10.5	0	
2031	0	11.5	0	
2032	0	12.5	0	
2033	0	13.5	0	
2034	0	14.5	0	
2035	0	15.5	0	
2036	0	16.5	0	
2037	0	17.5	0	
2038	0	18.5	0	
2039	<u>4,663,877</u>	19.5	<u>90,945,602</u>	
TOTALS	4,663,877		90,945,602	<u>19.50</u>

Interim Retirement Amount 0

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE REMAINING LIFE
KNOX LEE GENERATING PLANT - Account 316
RETIREMENT YEAR 2039
ANNUAL INTERIM RETIREMENT RATE = 0.00000**

<u>YEAR</u>	<u>AMOUNT RETIRED</u>	<u>REM LIFE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE REM LIFE</u>
2020	0	0.5	0	
2021	0	1.5	0	
2022	0	2.5	0	
2023	0	3.5	0	
2024	0	4.5	0	
2025	0	5.5	0	
2026	0	6.5	0	
2027	0	7.5	0	
2028	0	8.5	0	
2029	0	9.5	0	
2030	0	10.5	0	
2031	0	11.5	0	
2032	0	12.5	0	
2033	0	13.5	0	
2034	0	14.5	0	
2035	0	15.5	0	
2036	0	16.5	0	
2037	0	17.5	0	
2038	0	18.5	0	
2039	<u>2,008,192</u>	19.5	<u>39,159,744</u>	
TOTALS	2,008,192		39,159,744	<u>19.50</u>

Interim Retirement Amount 0

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE REMAINING LIFE
LIEBERMAN GENERATING PLANT - Account 311
RETIREMENT YEARS U3 2022 and U4 2024
ANNUAL INTERIM RETIREMENT RATE = 0.00000**

<u>YEAR</u>	<u>AMOUNT RETIRED</u>	<u>REM LIFE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE REM LIFE</u>
2020	0	0.5	0	
2021	0	1.5	0	
2022	2,703,712	2.5	6,759,280	
2023	0	3.5	0	
2024	<u>2,703,711</u>	4.5	<u>12,166,700</u>	
TOTALS	5,407,423		18,925,980	<u>3.50</u>

Interim Retirement Amounts 0

Unit	Capability MW	% of Total	Year Retirement	Calculated Retirement
Unit 3	109	50%	2022	2,703,712.00
Unit 4	<u>108</u>	<u>50%</u>	2024	Remainder of Plant
Total	217	100%		

**SOUTHWESTERN ELECTRIC POWER COMPANY
DEPRECIATION STUDY AS OF DECEMBER 31, 2019
CALCULATION OF AVERAGE REMAINING LIFE
LIEBERMAN GENERATING PLANT - Account 314
RETIREMENT YEARS U3 2022 and U4 2024
ANNUAL INTERIM RETIREMENT RATE = 0.00000**

<u>YEAR</u>	<u>AMOUNT RETIRED</u>	<u>REM LIFE (YEARS)</u>	<u>DOLLAR YEARS</u>	<u>AVERAGE REM LIFE</u>
2020	0	0.5	0	
2021	0	1.5	0	
2022	5,385,101	2.5	13,462,753	
2023	0	3.5	0	
2024	<u>5,385,100</u>	4.5	<u>24,232,950</u>	
TOTALS	10,770,201		37,695,703	<u>3.50</u>

Interim Retirement Amounts 0

Unit	Capability MW	% of Total	Year Retirement	Calculated Retirement
Unit 3	109	50%	2022	5,385,101.00
Unit 4	<u>108</u>	<u>50%</u>	2024	Remainder of Plant
Total	217	100%		

