Southwestern Public Service Company

Nuclear Expense Summaries

Schedules:

H-1.1	Nuclear Company-wide O&M Expenses Summary
H-1.1a	Nuclear Plant O&M Summary
H-1.1a1	Nuclear Unit O&M Summary

The H-1.1 schedules are not applicable to Southwestern Public Service Company ("SPS") because SPS does not own or operate nuclear facilities.

Southwestern Public Service Company

Fossil Company-Wide O&M Expenses Summary

Line No.	FERC Account	Description of Account	Percent Total	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Estimated October 2020	Estimated November 2020	Estimated December 2020	Updated Test Year Totals[3]
	Steam Power Operation																		
1	500	Supervision & Engineering	4.08%	$ 322,021	$ 235,160	$ 85,236	$ 292,033	$ 288,337	$ 334,281	$ 277,044	$ 273,921	$ 274,281	$ 406,677	$ 293,077	$ 329,160	$ 323,862	$ 303,407	$ 478,502	$ 3,874,581
2	502	Steam Expense	11.54%	$ 858,255	$ 946,443	$ 969,288	$ 868,900	$ 897,887	$ 908,023	$ 1,026,081	$ 767,645	$ 969,280	$ 1,043,687	$ 1,053,103	$ 902,552	$ 826,959	$ 841,164	$ 863,901	10,969,182
3	505	Electric Expense	9.33%	$ 670,713	$ 847,646	$ 961,502	$ 702,266	$ 655,253	$ 773,957	$ 738,097	$ 686,257	$ 689,824	$ 846,689	$ 823,921	$ 806,647	$ 723,304	$ 771,813	$ 651,775	8,869,803
4	506	Miscellaneous	15.35%	$ 1,181,969	$ 890,797	$ 916,998	$ 1,245,653	$ 1,081,039	$ 1,175,585	$ 838,364	$ 991,631	$ 1,179,614	$ 1,294,222	$ 746,056	$ 1,165,136	$ 1,593,810	$ 1,481,184	$ 1,796,905	14,589,197
5	507	Rent	4.09%	$ 449,305	$ 451,930	$ 703,696	$ 335,660	$ 288,766	$ 272,831	$ 362,878	$ 399,191	$ 326,017	$ 274,331	$ 311,902	$ 344,217	$ 339,593	$ 316,458	$ 314,443	3,886,287
6	509	Allowances	0.04%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 34,908	$ -	$ -	$ -	$ -	$ -	$ -	34,908
7		**Total Steam Power Operations**	**44.43%**	**$ 3,482,262**	**$ 3,371,977**	**$ 3,636,720**	**$ 3,444,511**	**$ 3,211,283**	**$ 3,464,676**	**$ 3,242,464**	**$ 3,118,645**	**$ 3,473,924**	**$ 3,865,606**	**$ 3,228,060**	**$ 3,547,712**	**$ 3,807,527**	**$ 3,714,025**	**$ 4,105,525**	**$ 42,223,959**
	Steam Power Maintenance																		
8	510	Supervision & Engineering	0.91%	$ 36,689	$ 35,360	$ 22,040	$ 31,707	$ 48,870	$ 97,218	$ 46,288	$ 58,253	$ 40,364	$ 60,088	$ 34,597	$ 60,124	$ 137,251	$ 122,432	$ 124,398	$ 861,588
9	511	Structures	3.79%	$ 720,763	$ 322,360	$ 323,281	$ 313,957	$ 314,207	$ 259,512	$ 287,145	$ 325,621	$ 361,241	$ 393,725	$ 351,768	$ 287,291	$ 261,193	$ 228,349	$ 216,571	3,600,581
10	512	Boilers	13.32%	$ 1,097,417	$ 1,124,096	$ 1,242,769	$ 955,419	$ 858,959	$ 1,721,708	$ 1,077,675	$ 1,103,048	$ 707,814	$ 688,939	$ 757,540	$ 1,257,956	$ 1,160,656	$ 1,065,212	$ 1,301,663	12,656,587
11	513	Electric Plant	7.97%	$ 948,576	$ 995,612	$ 1,029,710	$ 443,302	$ 708,848	$ 959,028	$ 798,223	$ 887,673	$ 583,479	$ 151,917	$ 448,960	$ 414,140	$ 581,831	$ 795,505	$ 797,129	7,570,035
12	514	Miscellaneous Plant	9.17%	$ 1,092,663	$ 907,917	$ 824,485	$ 749,554	$ 1,018,253	$ 924,529	$ 906,429	$ 618,601	$ 677,187	$ 837,309	$ 739,817	$ 623,813	$ 574,844	$ 517,568	$ 530,396	8,718,299
13		**Total Steam Power Maintenance**	**35.15%**	**$ 3,896,108**	**$ 3,385,345**	**$ 3,442,285**	**$ 2,493,939**	**$ 2,949,136**	**$ 3,961,995**	**$ 3,115,760**	**$ 2,993,196**	**$ 2,370,085**	**$ 2,131,977**	**$ 2,332,681**	**$ 2,643,324**	**$ 2,715,775**	**$ 2,729,065**	**$ 2,970,158**	**$ 33,407,091**
	Other Power Operation																		
14	546	Supervision & Engineering	0.55%	$ 47,985	$ 39,912	$ 18,747	$ 29,704	$ 46,371	$ 22,371	$ 30,587	$ 33,130	$ 31,936	$ 63,060	$ 41,750	$ 64,689	$ 39,869	$ 34,788	$ 80,461	$ 518,716
15	548	Generation Expense	0.41%	$ 18,561	$ 19,006	$ 22,293	$ 21,364	$ 19,567	$ 21,537	$ 20,771	$ 15,550	$ 27,077	$ 33,004	$ 29,880	$ 28,892	$ 56,442	$ 55,485	$ 56,963	386,532
16	549	Miscellaneous	5.22%	$ 366,523	$ 341,739	$ 443,579	$ 443,496	$ 368,447	$ 472,193	$ 456,026	$ 312,667	$ 449,200	$ 402,398	$ 394,774	$ 453,113	$ 393,942	$ 373,114	$ 444,521	4,963,891
17	550	Rents	2.41%	$ 226,492	$ 233,472	$ 263,559	$ 201,477	$ 194,453	$ 185,657	$ 193,734	$ 196,386	$ 189,048	$ 182,584	$ 188,325	$ 192,850	$ 188,478	$ 188,652	$ 188,653	2,290,297
18		**Total Other Power Operation**	**8.59%**	**$ 659,560**	**$ 634,129**	**$ 748,179**	**$ 696,040**	**$ 628,839**	**$ 701,757**	**$ 701,119**	**$ 557,734**	**$ 697,261**	**$ 681,046**	**$ 654,729**	**$ 739,544**	**$ 678,731**	**$ 652,039**	**$ 770,598**	**$ 8,159,436**
	Other Power Maintenance																		
19	551	Supervision & Engineering	0.52%	$ 43,799	$ 34,260	$ 39,901	$ 16,366	$ 55,015	$ 55,135	$ 31,410	$ 31,741	$ 39,163	$ 34,242	$ 32,522	$ 46,127	$ 52,743	$ 48,542	$ 49,143	$ 492,148
20	552	Structures	0.22%	$ 15,012	$ 43,332	$ 92,020	$ 23,114	$ 3,940	$ 11,854	$ 6,930	$ 10,723	$ 33,843	$ 20,128	$ 24,856	$ 28,317	$ 15,468	$ 15,466	$ 12,808	207,447
21	553	Electric Plant	2.68%	$ 82,992	$ 153,702	$ 90,363	$ 262,497	$ 89,843	$ 69,516	$ 78,126	$ 91,461	$ 88,302	$ 144,141	$ 107,299	$ 82,296	$ 618,100	$ 568,624	$ 346,132	2,546,336
22	554	Miscellaneous Plant[1]	4.29%	$ 334,557	$ 319,634	$ 410,020	$ 329,670	$ 307,680	$ 389,022	$ 324,106	$ 328,944	$ 369,416	$ 322,255	$ 326,697	$ 381,887	$ 337,305	$ 337,178	$ 319,609	4,073,769
23		**Total Other Power Maintenance**	**7.70%**	**$ 476,360**	**$ 550,928**	**$ 632,304**	**$ 631,646**	**$ 456,478**	**$ 525,527**	**$ 440,572**	**$ 462,869**	**$ 530,724**	**$ 520,766**	**$ 491,375**	**$ 538,627**	**$ 1,023,616**	**$ 969,809**	**$ 727,692**	**$ 7,319,701**
	Other Power Supply																		
24	556	System Control & Load Dispatch[2]	1.16%	$ 117,983	$ 77,305	$ 146,326	$ 82,825	$ 109,984	$ 112,085	$ 92,690	$ 111,041	$ 86,280	$ 70,836	$ 92,965	$ 82,540	$ 92,871	$ 85,297	$ 84,227	$ 1,103,640
25	557	Other Expenditures	2.97%	$ 27,207	$ 852,746	$ 811,308	$ 788,339	$ 1,215,082	$ 1,407,384	$ 810,906	$ 1,166,088	$ (645,081)	$ (558,221)	$ (1,491,938)	$ (498,227)	$ 199,593	$ 180,998	$ 246,460	2,821,383
26		**Total Other Power Supply**	**4.13%**	**$ 145,190**	**$ 930,051**	**$ 957,635**	**$ 871,164**	**$ 1,325,066**	**$ 1,519,469**	**$ 903,596**	**$ 1,277,129**	**$ (558,801)**	**$ (487,385)**	**$ (1,398,973)**	**$ (415,687)**	**$ 292,464**	**$ 266,294**	**$ 330,687**	**$ 3,925,023**
27	**Totals**		**100.00%**	**$ 8,659,481**	**$ 8,872,429**	**$ 9,417,123**	**$ 8,137,301**	**$ 8,570,802**	**$ 10,173,424**	**$ 8,403,510**	**$ 8,409,573**	**$ 6,513,192**	**$ 6,712,010**	**$ 5,307,871**	**$ 7,053,519**	**$ 8,518,113**	**$ 8,331,233**	**$ 8,904,660**	**$ 95,035,209**

Notes: This schedule contains estimates for the period of October 1, 2020 through December 31, 2020, referred to as the "Update Period." As discussed by Southwestern Public Service Company ("SPS") witness William A. Grant, SPS will file actual costs for the Update Period, including an updated version of this schedule, no later than the 45th day after the date of the initial filing of this rate case, as required by PURA § 36.112.

Costs not directly assigned to a plant were allocated on the basis of directly assigned plant costs in each FERC account to total directly assigned costs in each FERC account.

Utility Share $ and % not applicable because SPS does not jointly own any generation facilities.

[1] A portion of Miscellaneous Plant expenses were not directly assignable to the plants.

[2] System Control & Load Dispatch expenses were not directly assignable to the plants.

[3] This column represents the total amounts for the period between January 1, 2020 and December 31, 2020 also known as the updated test year.

Southwestern Public Service Company

Natural Gas Plant O&M Summary

Line No.	FERC Account	Description of Account	Percent Total	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Estimated October 2020	Estimated November 2020	Estimated December 2020	Updated Test Year Totals[3]
	Steam Power Operation																		
1	500	Supervision & Engineering		$ 185,946	$ 119,722	$ 33,077	$ 130,782	$ 117,390	$ 145,231	$ 127,544	$ 166,820	$ 155,022	$ 215,558	$ 150,530	$ 167,513	$ 131,095	$ 126,508	$ 200,224	$ 1,834,216
2	502	Steam Expense		$ 393,450	$ 419,780	$ 478,290	$ 408,584	$ 474,133	$ 471,764	$ 603,834	$ 308,219	$ 480,890	$ 460,258	$ 469,599	$ 430,694	$ 447,527	$ 493,832	$ 484,031	$ 5,533,365
3	505	Electric Expense		$ 392,955	$ 534,137	$ 533,769	$ 459,443	$ 427,578	$ 511,336	$ 511,657	$ 369,929	$ 369,490	$ 481,449	$ 470,000	$ 439,705	$ 138,091	$ 442,844	$ 302,123	$ 4,923,645
4	506	Miscellaneous		$ 684,323	$ 424,866	$ 380,278	$ 583,563	$ 504,345	$ 584,990	$ 382,068	$ 553,325	$ 600,065	$ 632,734	$ 554,568	$ 593,689	$ 762,974	$ 718,818	$ 860,271	$ 7,331,409
5	507	Rent		$ 215,311	$ 216,568	$ 337,217	$ 153,297	$ 136,301	$ 120,967	$ 170,629	$ 188,360	$ 151,290	$ 128,077	$ 143,639	$ 160,672	$ 187,559	$ 163,448	$ 162,401	$ 1,866,641
6	509	Allowances		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
7		**Total Steam Power Operations**	**0.00%**	**$ 1,871,985**	**$ 1,715,073**	**$ 1,762,629**	**$ 1,735,669**	**$ 1,659,747**	**$ 1,834,287**	**$ 1,795,733**	**$ 1,586,653**	**$ 1,756,757**	**$ 1,918,076**	**$ 1,788,336**	**$ 1,792,272**	**$ 1,667,245**	**$ 1,945,450**	**$ 2,009,051**	**$ 21,489,275**
	Steam Power Maintenance																		
8	510	Supervision & Engineering		$ 35,349	$ 28,924	$ 22,345	$ 30,675	$ 44,756	$ 99,073	$ 48,126	$ 57,061	$ 39,004	$ 57,570	$ 36,721	$ 57,577	$ 33,595	$ 29,967	$ 30,449	$ 564,573
9	511	Structures		$ 512,185	$ 125,898	$ 110,648	$ 167,586	$ 153,806	$ 155,044	$ 141,193	$ 150,790	$ 163,619	$ 205,054	$ 151,623	$ 156,120	$ 124,394	$ 104,217	$ 100,684	$ 1,774,129
10	512	Boilers		$ 730,363	$ 670,040	$ 653,638	$ 452,449	$ 374,715	$ 308,392	$ 282,931	$ 368,224	$ 413,427	$ 327,603	$ 310,746	$ 990,362	$ 447,916	$ 296,829	$ 278,426	$ 4,852,020
11	513	Electric Plant		$ 782,116	$ 851,699	$ 844,465	$ 205,620	$ 428,426	$ 274,374	$ 340,977	$ 486,888	$ 408,628	$ (212,702)	$ 242,846	$ 199,631	$ 392,899	$ 397,712	$ 407,095	$ 3,572,393
12	514	Miscellaneous Plant		$ 428,008	$ 349,447	$ 321,110	$ 262,467	$ 355,571	$ 353,112	$ 374,185	$ 225,110	$ 259,689	$ 376,040	$ 255,711	$ 229,632	$ 165,555	$ 153,669	$ 154,561	$ 3,165,303
13		**Total Steam Power Maintenance**	**0.00%**	**$ 2,488,021**	**$ 2,026,007**	**$ 1,952,207**	**$ 1,118,796**	**$ 1,357,274**	**$ 1,189,995**	**$ 1,187,413**	**$ 1,288,074**	**$ 1,284,366**	**$ 753,565**	**$ 997,647**	**$ 1,633,322**	**$ 1,164,359**	**$ 982,394**	**$ 971,215**	**$ 13,928,418**
	Other Power Operation																		
14	546	Supervision & Engineering		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
15	548	Generation Expense		$ 18,561	$ 19,006	$ 22,293	$ 21,364	$ 19,567	$ 21,537	$ 20,771	$ 15,550	$ 25,783	$ 33,004	$ 29,880	$ 28,892	$ 56,442	$ 55,485	$ 56,963	$ 385,238
16	549	Miscellaneous		$ 6,804	$ (5,092)	$ 15,935	$ 9,436	$ 9,936	$ 18,693	$ 78,484	$ (63,543)	$ 14,359	$ 19,526	$ 6,583	$ 12,175	$ 10,429	$ 10,579	$ 308,380	$ 435,038
17	550	Rents		$ -	$ -	$ -	$ 2,052	$ 1,271	$ -	$ 2,643	$ 1,284	$ 1,236	$ (1,210)	$ 1,240	$ 1,261	$ -	$ -	$ -	$ 9,778
				$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -							
18		**Total Other Power Operation**	**0.00%**	**$ 25,364**	**$ 13,915**	**$ 38,229**	**$ 32,852**	**$ 30,775**	**$ 40,230**	**$ 101,899**	**$ (46,708)**	**$ 41,378**	**$ 51,320**	**$ 37,702**	**$ 42,328**	**$ 66,871**	**$ 66,063**	**$ 365,343**	**$ 830,054**
	Other Power Maintenance																		
19	551	Supervision & Engineering		$ 43,799	$ 34,260	$ 39,901	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
20	552	Structures		$ 14,971	$ 42,991	$ 91,928	$ 20,466	$ 3,940	$ 11,798	$ 6,930	$ 10,576	$ 33,843	$ 7,454	$ 18,805	$ 24,106	$ 15,402	$ 15,399	$ 12,745	$ 181,464
21	553	Electric Plant		$ 74,634	$ 134,908	$ 69,570	$ 38,710	$ 31,170	$ 61,560	$ 67,794	$ 81,691	$ 76,449	$ 134,441	$ 81,284	$ 69,975	$ 613,139	$ 563,654	$ 339,336	$ 2,159,202
22	554	Miscellaneous Plant [1]		$ 3,803	$ 1,418	$ 5,758	$ (1)	$ 2	$ -	$ 1,848	$ (751)	$ 5	$ 353	$ 1,329	$ 581	$ -	$ -	$ -	$ 3,366
23		**Total Other Power Maintenance**	**0.00%**	**$ 137,207**	**$ 213,576**	**$ 207,157**	**$ 59,175**	**$ 35,112**	**$ 73,358**	**$ 76,573**	**$ 91,516**	**$ 110,297**	**$ 142,248**	**$ 101,418**	**$ 94,661**	**$ 628,540**	**$ 579,053**	**$ 352,081**	**$ 2,344,032**
	Other Power Supply																		
24	556	System Control & Load Dispatch [2]		$ 52,815	$ 34,606	$ 65,503	$ 37,077	$ 49,234	$ 50,175	$ 41,492	$ 49,707	$ 38,623	$ 31,710	$ 41,616	$ 36,949	$ 41,574	$ 38,183	$ 37,704	$ 494,044
25	557	Other Expenditures		$ 12,179	$ 381,731	$ 363,182	$ 352,900	$ 543,931	$ 630,015	$ 363,002	$ 521,999	$ (288,770)	$ (249,887)	$ (667,865)	$ (223,031)	$ 89,348	$ 81,024	$ 110,328	$ 1,262,991
26		**Total Other Power Supply**	**0.00%**	**$ 64,994**	**$ 416,337**	**$ 428,685**	**$ 389,976**	**$ 593,165**	**$ 680,189**	**$ 404,494**	**$ 571,706**	**$ (250,147)**	**$ (218,178)**	**$ (626,250)**	**$ (186,082)**	**$ 130,921**	**$ 119,207**	**$ 148,032**	**$ 1,757,034**
27	**Totals**		**0.00%**	**$ 4,587,572**	**$ 4,384,907**	**$ 4,388,907**	**$ 3,336,468**	**$ 3,676,073**	**$ 3,818,060**	**$ 3,566,112**	**$ 3,491,241**	**$ 2,942,650**	**$ 2,647,031**	**$ 2,298,853**	**$ 3,376,502**	**$ 3,657,936**	**$ 3,692,166**	**$ 3,845,722**	**$ 40,348,813**

Notes: This schedule contains estimates for the period of October 1, 2020 through December 31, 2020, referred to as the "Update Period." As discussed by Southwestern Public Service Company ("SPS") witness William A. Grant, SPS will file actual costs for the Update Period, including an updated version of this schedule, no later than the 45th day after the date of the initial filing of this rate case, as required by PURA § 36.112.

Costs not directly assigned to a plant were allocated on the basis of directly assigned plant costs in each FERC account to total directly assigned costs in each FERC account.

Utility Share $ and % not applicable because SPS does not jointly own any generation facilities.

(1) A portion of Miscellaneous Plant expenses were not directly assignable to the plants.

(2) System Control & Load Dispatch expenses were not directly assignable to the plants.

(3) This column represents the total amounts for the period between January 1, 2020 and December 31, 2020 also known as the updated test year.

Southwestern Public Service Company

Natural Gas (Steam Generation) O&M Summary

Total Summary

Line No.	FERC Account	Description of Account	Percent Total	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Estimated October 2020	Estimated November 2020	Estimated December 2020	Updated Test Year Totals[3]
	Steam Power Operation																		
1	500	Supervision & Engineering	4.93%	$ 185,946	$ 119,722	$ 33,077	$ 130,782	$ 117,390	$ 145,231	$ 127,544	$ 166,820	$ 155,022	$ 215,558	$ 150,530	$ 167,513	$ 131,095	$ 126,508	$ 200,224	$ 1,834,216
2	502	Steam Expense	14.88%	$ 393,450	$ 419,780	$ 478,290	$ 408,584	$ 474,133	$ 471,764	$ 603,834	$ 308,219	$ 480,890	$ 460,258	$ 469,599	$ 430,694	$ 447,527	$ 493,832	$ 484,031	5,533,365
3	505	Electric Expense	13.24%	$ 392,955	$ 534,137	$ 533,769	$ 459,443	$ 427,578	$ 511,336	$ 511,657	$ 369,929	$ 369,490	$ 481,449	$ 470,000	$ 439,705	$ 138,091	$ 442,844	$ 302,123	4,923,645
4	506	Miscellaneous	19.72%	$ 684,323	$ 424,866	$ 380,278	$ 583,563	$ 504,345	$ 584,990	$ 382,068	$ 553,325	$ 600,065	$ 632,734	$ 554,568	$ 593,689	$ 762,974	$ 718,818	$ 860,271	7,331,409
5	507	Rent	5.02%	$ 215,311	$ 216,568	$ 337,217	$ 153,297	$ 136,301	$ 120,967	$ 170,629	$ 188,360	$ 151,290	$ 128,077	$ 143,639	$ 160,672	$ 187,559	$ 163,448	$ 162,401	1,866,641
6	509	Allowances	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
7		**Total Steam Power Operations**	**57.81%**	**$ 1,871,985**	**$ 1,715,073**	**$ 1,762,629**	**$ 1,735,669**	**$ 1,659,747**	**$ 1,834,287**	**$ 1,795,733**	**$ 1,586,653**	**$ 1,756,757**	**$ 1,918,076**	**$ 1,788,336**	**$ 1,792,272**	**$ 1,667,245**	**$ 1,945,450**	**$ 2,009,051**	**$ 21,489,275**
	Steam Power Maintenance																		
8	510	Supervision & Engineering	1.52%	$ 35,349	$ 28,924	$ 22,345	$ 30,675	$ 44,756	$ 99,073	$ 48,126	$ 57,061	$ 39,004	$ 57,570	$ 36,721	$ 57,577	$ 33,595	$ 29,967	$ 30,449	$ 564,573
9	511	Structures	4.77%	$ 512,185	$ 125,898	$ 110,648	$ 167,586	$ 153,806	$ 155,044	$ 141,193	$ 150,790	$ 163,619	$ 205,054	$ 151,623	$ 156,120	$ 124,394	$ 104,217	$ 100,684	1,774,129
10	512	Boilers	13.05%	$ 730,363	$ 670,040	$ 653,638	$ 452,449	$ 374,715	$ 308,392	$ 282,931	$ 368,224	$ 413,427	$ 327,603	$ 310,746	$ 990,362	$ 447,916	$ 296,829	$ 278,426	4,852,020
11	513	Electric Plant	9.61%	$ 782,116	$ 851,699	$ 844,465	$ 205,620	$ 428,426	$ 274,374	$ 340,977	$ 486,888	$ 408,628	$ (212,702)	$ 242,846	$ 199,631	$ 392,899	$ 397,712	$ 407,095	3,572,393
12	514	Miscellaneous Plant	8.51%	$ 428,008	$ 349,447	$ 321,110	$ 262,467	$ 355,571	$ 353,112	$ 374,185	$ 225,110	$ 259,689	$ 376,040	$ 255,711	$ 229,632	$ 165,555	$ 153,669	$ 154,561	3,165,303
13		**Total Steam Power Maintenance**	**37.47%**	**$ 2,488,021**	**$ 2,026,007**	**$ 1,952,207**	**$ 1,118,796**	**$ 1,357,274**	**$ 1,189,995**	**$ 1,187,413**	**$ 1,288,074**	**$ 1,284,366**	**$ 753,565**	**$ 997,647**	**$ 1,633,322**	**$ 1,164,359**	**$ 982,394**	**$ 971,215**	**$ 13,928,418**
	Other Power Operation																		
14	546	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
15	548	Generation Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
16	549	Miscellaneous	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
17	550	Rents	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
18		**Total Other Power Operation**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Other Power Maintenance																		
19	551	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
20	552	Structures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
21	553	Electric Plant	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
22	554	Miscellaneous Plant [1]	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
23		**Total Other Power Maintenance**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Other Power Supply																		
24	556	System Control & Load Dispatch [2]	1.33%	$ 52,815	$ 34,606	$ 65,503	$ 37,077	$ 49,234	$ 50,175	$ 41,492	$ 49,707	$ 38,623	$ 31,710	$ 41,616	$ 36,949	$ 41,574	$ 38,183	$ 37,704	$ 494,044
25	557	Other Expenditures	3.40%	$ 12,179	$ 381,731	$ 363,182	$ 352,900	$ 543,931	$ 630,015	$ 363,002	$ 521,999	$ (288,770)	$ (249,887)	$ (667,865)	$ (223,031)	$ 89,348	$ 81,024	$ 110,328	1,262,991
26		**Total Other Power Supply**	**4.73%**	**$ 64,994**	**$ 416,337**	**$ 428,685**	**$ 389,976**	**$ 593,165**	**$ 680,189**	**$ 404,494**	**$ 571,706**	**$ (250,147)**	**$ (218,178)**	**$ (626,250)**	**$ (186,082)**	**$ 130,921**	**$ 119,207**	**$ 148,032**	**$ 1,757,034**
27	**Totals**		**100.00%**	**$ 4,425,001**	**$ 4,157,417**	**$ 4,143,521**	**$ 3,244,441**	**$ 3,610,186**	**$ 3,704,472**	**$ 3,387,640**	**$ 3,446,433**	**$ 2,790,975**	**$ 2,453,463**	**$ 2,159,733**	**$ 3,239,512**	**$ 2,962,525**	**$ 3,047,050**	**$ 3,128,297**	**$ 37,174,728**

Notes:

This schedule contains estimates for the period of October 1, 2020 through December 31, 2020, referred to as the "Update Period." As discussed by Southwestern Public Service Company ("SPS") witness William A. Grant, SPS will file actual costs for the Update Period, including an updated version of this schedule, no later than the 45th day after the date of the initial filing of this rate case, as required by PURA § 36.112.

Costs not directly assigned to a plant were allocated on the basis of directly assigned plant costs in each FERC account to total directly assigned costs in each FERC account.

Utility Share $ and % not applicable because SPS does not jointly own any generation facilities.

[1] A portion of Miscellaneous Plant expenses were not directly assignable to the plants.

[2] System Control & Load Dispatch expenses were not directly assignable to the plants.

(3) This column represents the total amounts for the period between January 1, 2020 and December 31, 2020 also known as the updated test year.

Southwestern Public Service Company

Natural Gas (Steam Generation) O&M Summary

Plant Name: Jones

Line No.	FERC Account	Description of Account	Percent Total	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Estimated October 2020	Estimated November 2020	Estimated December 2020	Updated Test Year Totals[3]
	Steam Power Operation																		
1	500	Supervision & Engineering	8.18%	$ 148,469	$ 52,723	$ 13,037	$ 88,038	$ 61,678	$ 81,947	$ 83,427	$ 67,264	$ 64,928	$ 97,077	$ 66,408	$ 69,423	$ 37,185	$ 35,932	$ 57,039	$ 810,345
2	502	Steam Expense	16.05%	$ 111,993	$ 123,059	$ 136,974	$ 113,968	$ 163,335	$ 173,906	$ 93,010	$ 122,395	$ 140,561	$ 155,571	$ 174,632	$ 148,190	$ 93,916	$ 117,751	$ 93,393	1,590,627
3	505	Electric Expense	17.78%	$ 133,717	$ 250,681	$ 154,599	$ 166,777	$ 173,992	$ 196,929	$ 185,969	$ 134,046	$ 107,957	$ 151,066	$ 154,794	$ 124,255	$ 91,240	$ 202,970	$ 72,591	1,762,586
4	506	Miscellaneous	18.58%	$ 191,678	$ 102,605	$ 18,055	$ 106,849	$ 110,622	$ 133,390	$ 6,554	$ 105,307	$ 112,039	$ 64,691	$ 107,900	$ 113,043	$ 314,556	$ 297,427	$ 368,627	1,841,007
5	507	Rent	4.25%	$ 47,399	$ 47,676	$ 74,236	$ 32,070	$ 28,210	$ 25,553	$ 35,084	$ 39,234	$ 31,236	$ 24,911	$ 29,811	$ 33,285	$ 63,930	$ 39,174	$ 38,717	421,214
6	509	Allowances	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
7		**Total Steam Power Operations**	**64.84%**	**$ 633,256**	**$ 576,744**	**$ 396,900**	**$ 507,702**	**$ 537,838**	**$ 611,725**	**$ 404,043**	**$ 468,246**	**$ 456,721**	**$ 493,316**	**$ 533,545**	**$ 488,197**	**$ 600,827**	**$ 693,254**	**$ 630,367**	**$ 6,425,779**
	Steam Power Maintenance																		
8	510	Supervision & Engineering	4.14%	$ 29,102	$ 23,797	$ 17,354	$ 22,742	$ 37,167	$ 35,475	$ 39,854	$ 49,437	$ 28,717	$ 38,983	$ 27,924	$ 36,082	$ 33,595	$ 29,967	$ 30,449	$ 410,393
9	511	Structures	4.12%	$ 31,341	$ 29,551	$ 31,787	$ 23,102	$ 41,677	$ 50,028	$ 38,789	$ 50,691	$ 45,768	$ 39,194	$ 40,312	$ 32,022	$ 15,485	$ 15,164	$ 15,965	408,198
10	512	Boilers	8.47%	$ 45,359	$ 16,115	$ 233,576	$ 118,498	$ 12,050	$ 63,327	$ 44,890	$ 108,146	$ 52,511	$ 64,991	$ (19,226)	$ 114,554	$ 123,694	$ 80,891	$ 75,184	839,509
11	513	Electric Plant	7.61%	$ 108,726	$ 158,690	$ 16,433	$ 42,942	$ 24,261	$ 21,972	$ 78,609	$ 31,606	$ 61,402	$ 45,979	$ 67,671	$ 46,527	$ 114,502	$ 112,418	$ 105,919	753,810
12	514	Miscellaneous Plant	5.91%	$ 89,199	$ 33,982	$ 50,196	$ 55,553	$ 71,117	$ 52,749	$ 75,820	$ 44,875	$ 45,228	$ 72,734	$ 48,585	$ 33,581	$ 29,481	$ 29,199	$ 27,072	585,993
13		**Total Steam Power Maintenance**	**30.25%**	**$ 303,727**	**$ 262,135**	**$ 349,345**	**$ 262,838**	**$ 186,272**	**$ 223,551**	**$ 277,962**	**$ 284,754**	**$ 233,625**	**$ 261,881**	**$ 165,266**	**$ 262,766**	**$ 316,757**	**$ 267,640**	**$ 254,589**	**$ 2,997,902**
	Other Power Operation																		
14	546	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
15	548	Generation Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
16	549	Miscellaneous	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
17	550	Rents	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
18		**Total Other Power Operation**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Other Power Maintenance																		
19	551	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
20	552	Structures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
21	553	Electric Plant	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
22	554	Miscellaneous Plant[1]	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
23		**Total Other Power Maintenance**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Other Power Supply																		
24	556	System Control & Load Dispatch[2]	1.38%	$ 14,639	$ 9,592	$ 18,155	$ 10,276	$ 13,646	$ 13,907	$ 11,500	$ 13,777	$ 10,705	$ 8,789	$ 11,535	$ 10,241	$ 11,523	$ 10,583	$ 10,450	$ 136,933
25	557	Other Expenditures	3.53%	$ 3,376	$ 105,803	$ 100,662	$ 97,812	$ 150,760	$ 174,620	$ 100,612	$ 144,681	$ (80,038)	$ (69,261)	$ (185,111)	$ (61,817)	$ 24,764	$ 22,457	$ 30,579	350,060
26		**Total Other Power Supply**	**4.91%**	**$ 18,014**	**$ 115,395**	**$ 118,817**	**$ 108,089**	**$ 164,406**	**$ 188,526**	**$ 112,113**	**$ 158,458**	**$ (69,333)**	**$ (60,472)**	**$ (173,576)**	**$ (51,576)**	**$ 36,287**	**$ 33,040**	**$ 41,030**	**$ 486,993**
27	**Totals**		**100.00%**	**$ 954,997**	**$ 954,274**	**$ 865,062**	**$ 878,629**	**$ 888,516**	**$ 1,023,803**	**$ 794,117**	**$ 911,459**	**$ 621,014**	**$ 694,725**	**$ 525,234**	**$ 699,387**	**$ 953,871**	**$ 993,934**	**$ 925,986**	**$ 9,910,674**

Notes: This schedule contains estimates for the period of October 1, 2020 through December 31, 2020, referred to as the "Update Period." As discussed by Southwestern Public Service Company ("SPS") witness William A. Grant, SPS will file actual costs for the Update Period, including an updated version of this schedule, no later than the 45th day after the date of the initial filing of this rate case, as required by PURA § 36.112.

Costs not directly assigned to a plant were allocated on the basis of directly assigned plant costs in each FERC account to total directly assigned costs in each FERC account.

Utility Share $ and % not applicable because SPS does not jointly own any generation facilities.

[1] A portion of Miscellaneous Plant expenses were not directly assignable to the plants.

[2] System Control & Load Dispatch expenses were not directly assignable to the plants.

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Southwestern Public Service Company

Natural Gas (Steam Generation) O&M Summary

Plant Name: Cunningham

Line No.	FERC Account	Description of Account	Percent Total	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Estimated October 2020	Estimated November 2020	Estimated December 2020	Updated Test Year Totals[3]
		Steam Power Operation																	
1	500	Supervision & Engineering	1.38%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 22,063	$ 21,320	$ 33,843	$ 77,226
2	502	Steam Expense	31.80%	$ 112,081	$ 130,384	$ 160,851	$ 142,064	$ 183,889	$ 163,123	$ 272,691	$ 6,098	$ 121,193	$ 109,037	$ 127,458	$ 116,701	$ 176,448	$ 173,342	$ 181,309	1,773,352
3	505	Electric Expense	6.01%	$ 26,356	$ 26,002	$ 30,475	$ 27,234	$ 29,670	$ 30,933	$ 25,513	$ 33,313	$ 44,667	$ 43,008	$ 44,928	$ 37,770	$ 6,152	$ 6,105	$ 6,078	335,370
4	506	Miscellaneous	13.54%	$ 87,859	$ 42,169	$ 52,413	$ 60,347	$ 62,482	$ 79,853	$ 41,226	$ 66,614	$ 48,715	$ 62,349	$ 80,501	$ 59,667	$ 67,791	$ 63,972	$ 61,652	755,167
5	507	Rent	6.04%	$ 42,075	$ 42,321	$ 65,897	$ 29,248	$ 25,221	$ 22,050	$ 33,101	$ 35,280	$ 29,344	$ 24,857	$ 26,934	$ 31,183	$ 26,565	$ 26,741	$ 26,566	337,089
6	509	Allowances	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
7		**Total Steam Power Operations**	**58.78%**	**$ 268,371**	**$ 240,876**	**$ 309,635**	**$ 258,893**	**$ 301,262**	**$ 295,958**	**$ 372,532**	**$ 141,304**	**$ 243,918**	**$ 239,250**	**$ 279,821**	**$ 245,320**	**$ 299,019**	**$ 291,479**	**$ 309,448**	**$ 3,278,204**
		Steam Power Maintenance																	
8	510	Supervision & Engineering	1.48%	$ 4,699	$ 4,804	$ 4,070	$ 7,932	$ 6,933	$ 11,119	$ 6,584	$ 7,460	$ 4,326	$ 9,118	$ 7,480	$ 21,495	$ -	$ -	$ -	$ 82,446
9	511	Structures	5.84%	$ 21,377	$ 11,890	$ 16,166	$ 8,486	$ 16,179	$ 15,362	$ 37,888	$ 31,547	$ 37,123	$ 76,560	$ 34,441	$ 56,802	$ 3,578	$ 3,567	$ 4,394	325,927
10	512	Boilers	13.70%	$ 133,523	$ 217,186	$ 23,308	$ 35,965	$ 150,256	$ 79,194	$ 37,881	$ 52,465	$ 52,078	$ 142,809	$ 110,513	$ 35,762	$ 22,684	$ 22,684	$ 21,591	763,880
11	513	Electric Plant	10.68%	$ 57,244	$ 52,134	$ 29,213	$ 38,615	$ 44,514	$ 57,415	$ 48,955	$ 53,144	$ 28,162	$ 44,648	$ 34,552	$ 37,999	$ 66,651	$ 65,357	$ 75,637	595,648
12	514	Miscellaneous Plant	4.91%	$ 53,155	$ 56,362	$ 21,232	$ 23,686	$ 16,669	$ 35,977	$ 38,524	$ 16,777	$ 16,836	$ 40,392	$ 13,945	$ 12,653	$ 19,256	$ 19,006	$ 19,855	273,576
13		**Total Steam Power Maintenance**	**36.60%**	**$ 269,997**	**$ 342,377**	**$ 93,989**	**$ 114,683**	**$ 234,551**	**$ 199,067**	**$ 169,833**	**$ 161,393**	**$ 138,524**	**$ 313,526**	**$ 200,931**	**$ 164,711**	**$ 112,168**	**$ 110,613**	**$ 121,477**	**$ 2,041,477**
		Other Power Operation																	
14	546	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
15	548	Generation Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
16	549	Miscellaneous	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
17	550	Rents	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
18		**Total Other Power Operation**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
		Other Power Maintenance																	
19	551	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
20	552	Structures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
21	553	Electric Plant	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
22	554	Miscellaneous Plant[1]	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
23		**Total Other Power Maintenance**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
		Other Power Supply																	
24	556	System Control & Load Dispatch[2]	1.30%	$ 7,747	$ 5,076	$ 9,608	$ 5,439	$ 7,222	$ 7,360	$ 6,086	$ 7,291	$ 5,665	$ 4,651	$ 6,104	$ 5,420	$ 6,098	$ 5,601	$ 5,531	$ 72,470
25	557	Other Expenditures	3.32%	$ 1,787	$ 55,995	$ 53,274	$ 51,766	$ 79,787	$ 92,415	$ 53,248	$ 76,570	$ (42,359)	$ (36,655)	$ (97,967)	$ (32,716)	$ 13,106	$ 11,885	$ 16,184	185,264
26		**Total Other Power Supply**	**4.62%**	**$ 9,534**	**$ 61,071**	**$ 62,882**	**$ 57,204**	**$ 87,009**	**$ 99,775**	**$ 59,334**	**$ 83,862**	**$ (36,693)**	**$ (32,004)**	**$ (91,863)**	**$ (27,296)**	**$ 19,204**	**$ 17,486**	**$ 21,714**	**$ 257,734**
27	**Totals**		**100.00%**	**$ 547,902**	**$ 644,324**	**$ 466,506**	**$ 430,781**	**$ 622,822**	**$ 594,799**	**$ 601,698**	**$ 386,558**	**$ 345,749**	**$ 520,773**	**$ 388,889**	**$ 382,736**	**$ 430,391**	**$ 419,579**	**$ 452,639**	**$ 5,577,415**

Notes:

This schedule contains estimates for the period of October 1, 2020 through December 31, 2020, referred to as the "Update Period." As discussed by Southwestern Public Service Company ("SPS") witness William A. Grant, SPS will file actual costs for the Update Period, including an updated version of this schedule, no later than the 45th day after the date of the initial filing of this rate case, as required by PURA § 36.112.

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Utility Share $ and % not applicable because SPS does not jointly own any generation facilities.

[1] A portion of Miscellaneous Plant expenses were not directly assignable to the plants.

[2] System Control & Load Dispatch expenses were not directly assignable to the plants.

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Southwestern Public Service Company

Natural Gas (Steam Generation) O&M Summary

Plant Name: Maddox

Line No.	FERC Account	Description of Account	Percent Total	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Estimated October 2020	Estimated November 2020	Estimated December 2020	Updated Test Year Totals[3]
	Steam Power Operation																		
1	500	Supervision & Engineering	0.96%	$ -	$ -	$ 24	$ -	$ 394	$ 12	$ -	$ 13,513	$ -	$ -	$ 358	$ -	$ 4,275	$ 4,131	$ 6,557	$ 29,239
2	502	Steam Expense	28.93%	$ 47,326	$ 57,135	$ 62,999	$ 51,513	$ 50,343	$ 64,180	$ 134,065	$ 25,223	$ 59,090	$ 59,640	$ 56,205	$ 61,161	$ 106,861	$ 104,436	$ 111,377	884,094
3	505	Electric Expense	14.14%	$ 40,646	$ 33,660	$ 39,234	$ 36,258	$ 33,870	$ 32,818	$ 45,118	$ 48,186	$ 50,923	$ 69,143	$ 43,694	$ 72,162	$ -	$ -	$ -	432,171
4	506	Miscellaneous	12.05%	$ (11,187)	$ 13,643	$ 56,667	$ 29,379	$ 34,546	$ 46,155	$ 38,790	$ 36,393	$ 73,635	$ 42,810	$ 49,310	$ 18,704	$ 1,614	$ 1,531	$ (4,759)	368,108
5	507	Rent	6.68%	$ 25,786	$ 25,936	$ 40,385	$ 17,446	$ 15,848	$ 14,014	$ 19,587	$ 21,845	$ 17,494	$ 14,053	$ 16,718	$ 18,692	$ 16,142	$ 16,250	$ 16,143	204,231
6	509	Allowances	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
7		**Total Steam Power Operations**	**62.76%**	**$ 102,571**	**$ 130,374**	**$ 199,309**	**$ 134,596**	**$ 135,001**	**$ 157,180**	**$ 237,560**	**$ 145,160**	**$ 201,142**	**$ 185,645**	**$ 166,284**	**$ 170,718**	**$ 128,892**	**$ 126,348**	**$ 129,318**	**$ 1,917,844**
	Steam Power Maintenance																		
8	510	Supervision & Engineering	0.07%	$ -	$ 323	$ 2	$ -	$ 655	$ 73	$ -	$ 20	$ -	$ 1,392	$ 2	$ -	$ -	$ -	$ -	$ 2,142
9	511	Structures	2.98%	$ 19,434	$ 10,128	$ 18,431	$ 8,838	$ 9,527	$ 9,480	$ 11,333	$ 6,563	$ 7,151	$ 18,221	$ 3,431	$ 4,952	$ 9,426	$ 1,310	$ 819	91,051
10	512	Boilers	6.11%	$ 41,064	$ 15,478	$ 63,794	$ 18,140	$ 11,264	$ 13,211	$ 12,203	$ 4,450	$ 13,081	$ 34,187	$ 23,744	$ 22,408	$ 20,064	$ 13,270	$ 695	186,717
11	513	Electric Plant	8.27%	$ 12,276	$ 11,077	$ 8,774	$ 8,739	$ 9,631	$ 8,478	$ 9,388	$ 14,099	$ 47,080	$ 22,835	$ 18,852	$ 11,346	$ 36,727	$ 33,844	$ 31,845	252,864
12	514	Miscellaneous Plant	15.30%	$ 71,581	$ 72,796	$ 49,204	$ 58,993	$ 55,031	$ 71,042	$ 62,167	$ 39,855	$ 50,479	$ 52,968	$ 41,621	$ 34,932	$ 156	$ 170	$ 106	467,520
13		**Total Steam Power Maintenance**	**32.73%**	**$ 144,355**	**$ 109,802**	**$ 140,204**	**$ 94,710**	**$ 86,108**	**$ 102,284**	**$ 95,091**	**$ 64,988**	**$ 117,790**	**$ 129,602**	**$ 87,649**	**$ 73,638**	**$ 66,373**	**$ 48,593**	**$ 33,466**	**$ 1,000,293**
	Other Power Operation																		
14	546	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
15	548	Generation Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
16	549	Miscellaneous	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
17	550	Rents	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
18		**Total Other Power Operation**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Other Power Maintenance																		
19	551	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
20	552	Structures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
21	553	Electric Plant	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
22	554	Miscellaneous Plant[1]	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
23		**Total Other Power Maintenance**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Other Power Supply																		
24	556	System Control & Load Dispatch[2]	1.27%	$ 4,142	$ 2,714	$ 5,137	$ 2,908	$ 3,861	$ 3,935	$ 3,254	$ 3,898	$ 3,029	$ 2,487	$ 3,264	$ 2,898	$ 3,261	$ 2,995	$ 2,957	$ 38,747
25	557	Other Expenditures	3.24%	$ 955	$ 29,939	$ 28,484	$ 27,678	$ 42,660	$ 49,411	$ 28,470	$ 40,940	$ (22,648)	$ (19,598)	$ (52,380)	$ (17,492)	$ 7,007	$ 6,355	$ 8,653	99,055
26		**Total Other Power Supply**	**4.51%**	**$ 5,097**	**$ 32,653**	**$ 33,621**	**$ 30,585**	**$ 46,521**	**$ 53,346**	**$ 31,724**	**$ 44,838**	**$ (19,619)**	**$ (17,111)**	**$ (49,116)**	**$ (14,594)**	**$ 10,268**	**$ 9,349**	**$ 11,610**	**$ 137,802**
27	**Totals**		**100.00%**	**$ 252,023**	**$ 272,828**	**$ 373,134**	**$ 259,892**	**$ 267,631**	**$ 312,810**	**$ 364,375**	**$ 254,986**	**$ 299,314**	**$ 298,135**	**$ 204,817**	**$ 229,763**	**$ 205,533**	**$ 184,290**	**$ 174,394**	**$ 3,055,940**

Notes: This schedule contains estimates for the period of October 1, 2020 through December 31, 2020, referred to as the "Update Period." As discussed by Southwestern Public Service Company ("SPS") witness William A. Grant, SPS will file actual costs for the Update Period, including an updated version of this schedule, no later than the 45th day after the date of the initial filing of this rate case, as required by PURA § 36.112.

Costs not directly assigned to a plant were allocated on the basis of directly assigned plant costs in each FERC account to total directly assigned costs in each FERC account.

Utility Share $ and % not applicable because SPS does not jointly own any generation facilities.

[1] A portion of Miscellaneous Plant expenses were not directly assignable to the plants.

[2] System Control & Load Dispatch expenses were not directly assignable to the plants.

(3) This column represents the total amounts for the period between January 1, 2020 and December 31, 2020 also known as the updated test year.

Southwestern Public Service Company

Natural Gas (Steam Generation) O&M Summary

Plant Name: Moore County

Line No.	FERC Account	Description of Account	Percent Total	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Estimated October 2020	Estimated November 2020	Estimated December 2020	Updated Test Year Totals[3]
	Steam Power Operation																		
1	500	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2	502	Steam Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	505	Electric Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
4	506	Miscellaneous	26.19%	$ 70	$ 72	$ 71	$ 23	$ 23	$ 24	$ 412	$ (190)	$ 0	$ 0	$ 0	$ (0)	$ -	$ -	$ -	293
5	507	Rent	21.10%	$ 7	$ 7	$ 10	$ 25	$ 24	$ 23	$ 26	$ 26	$ 25	$ 24	$ 25	$ 26	$ 4	$ 4	$ 4	236
6	509	Allowances	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
7		**Total Steam Power Operations**	**47.28%**	**$ 76**	**$ 79**	**$ 81**	**$ 48**	**$ 47**	**$ 46**	**$ 438**	**$ (164)**	**$ 25**	**$ 24**	**$ 26**	**$ 26**	**$ 4**	**$ 4**	**$ 4**	**$ 529**
	Steam Power Maintenance																		
8	510	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
9	511	Structures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
10	512	Boilers	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
11	513	Electric Plant	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
12	514	Miscellaneous Plant	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
13		**Total Steam Power Maintenance**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Other Power Operation																		
14	546	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
15	548	Generation Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
16	549	Miscellaneous	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
17	550	Rents	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
18		**Total Other Power Operation**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Other Power Maintenance																		
19	551	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
20	552	Structures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
21	553	Electric Plant	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
22	554	Miscellaneous Plant [1]	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
23		**Total Other Power Maintenance**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Other Power Supply																		
24	556	System Control & Load Dispatch [2]	14.82%	$ 18	$ 12	$ 22	$ 12	$ 17	$ 17	$ 14	$ 17	$ 13	$ 11	$ 14	$ 12	$ 14	$ 13	$ 13	$ 166
25	557	Other Expenditures	37.89%	$ 4	$ 128	$ 122	$ 118	$ 182	$ 211	$ 122	$ 175	$ (97)	$ (84)	$ (224)	$ (75)	$ 30	$ 27	$ 37	424
26		**Total Other Power Supply**	**52.72%**	**$ 22**	**$ 140**	**$ 144**	**$ 131**	**$ 199**	**$ 228**	**$ 136**	**$ 192**	**$ (84)**	**$ (73)**	**$ (210)**	**$ (62)**	**$ 44**	**$ 40**	**$ 50**	**$ 589**
27	**Totals**		**100.00%**	**$ 98**	**$ 218**	**$ 225**	**$ 179**	**$ 246**	**$ 275**	**$ 574**	**$ 28**	**$ (58)**	**$ (49)**	**$ (184)**	**$ (37)**	**$ 48**	**$ 44**	**$ 54**	**$ 1,118**

Notes: This schedule contains estimates for the period of October 1, 2020 through December 31, 2020, referred to as the "Update Period." As discussed by Southwestern Public Service Company ("SPS") witness William A. Grant, SPS will file actual costs for the Update Period, including an updated version of this schedule, no later than the 45th day after the date of the initial filing of this rate case, as required by PURA § 36.112.

Costs not directly assigned to a plant were allocated on the basis of directly assigned plant costs in each FERC account to total directly assigned costs in each FERC account.

Utility Share $ and % not applicable because SPS does not jointly own any generation facilities.

[1] A portion of Miscellaneous Plant expenses were not directly assignable to the plants.

[2] System Control & Load Dispatch expenses were not directly assignable to the plants.

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Southwestern Public Service Company

Natural Gas (Steam Generation) O&M Summary

Plant Name: Nichols

Line No.	FERC Account	Description of Account	Percent Total	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Estimated October 2020	Estimated November 2020	Estimated December 2020	Updated Test Year Totals[3]
	Steam Power Operation																		
1	500	Supervision & Engineering	2.17%	$ 951	$ -	$ 125	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 60,999	$ 58,879	$ 93,668	$ 213,546
2	502	Steam Expense	7.23%	$ 24,191	$ 43,864	$ 36,280	$ 31,389	$ 30,371	$ 24,908	$ 32,676	$ 80,828	$ 79,668	$ 93,706	$ 78,609	$ 69,315	$ 44,047	$ 72,715	$ 71,838	710,069
3	505	Electric Expense	16.23%	$ 122,979	$ 162,660	$ 227,066	$ 172,267	$ 137,135	$ 194,364	$ 173,584	$ 109,885	$ 118,554	$ 173,827	$ 182,056	$ 156,982	$ (70,365)	$ 126,468	$ 119,111	1,593,868
4	506	Miscellaneous	26.09%	$ 298,247	$ 142,442	$ 187,369	$ 224,285	$ 182,707	$ 225,753	$ 226,522	$ 232,385	$ 240,828	$ 296,579	$ 218,375	$ 262,792	$ 145,574	$ 137,768	$ 168,481	2,562,050
5	507	Rent	4.89%	$ 54,224	$ 54,540	$ 84,924	$ 38,094	$ 33,687	$ 30,126	$ 41,529	$ 48,185	$ 37,133	$ 29,860	$ 35,470	$ 39,444	$ 48,866	$ 49,037	$ 48,917	480,348
6	509	Allowances	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
7		**Total Steam Power Operations**	**56.62%**	**$ 500,591**	**$ 403,506**	**$ 535,764**	**$ 466,036**	**$ 383,900**	**$ 475,151**	**$ 474,312**	**$ 471,283**	**$ 476,182**	**$ 593,972**	**$ 514,510**	**$ 528,533**	**$ 229,120**	**$ 444,868**	**$ 502,015**	**$ 5,559,881**
	Steam Power Maintenance																		
8	510	Supervision & Engineering	0.72%	$ 5,244	$ -	$ 919	$ -	$ -	$ 52,383	$ 943	$ 1,813	$ 5,961	$ 8,077	$ 1,315	$ -	$ -	$ -	$ -	$ 70,492
9	511	Structures	4.00%	$ 20,130	$ 11,271	$ 15,517	$ 42,371	$ 21,049	$ 23,150	$ 27,804	$ 41,568	$ 33,549	$ 31,537	$ 43,514	$ 34,657	$ 30,537	$ 30,472	$ 32,319	392,524
10	512	Boilers	13.98%	$ 372,363	$ 289,569	$ 78,004	$ 199,460	$ 173,185	$ 122,568	$ 50,564	$ 109,005	$ 218,797	$ 11,867	$ 102,959	$ (54,458)	$ 201,881	$ 116,902	$ 119,584	1,372,315
11	513	Electric Plant	11.48%	$ 344,795	$ 350,847	$ 443,610	$ 14,578	$ 263,744	$ 99,522	$ 47,900	$ 76,930	$ 67,780	$ 117,732	$ 66,053	$ 61,252	$ 102,269	$ 101,846	$ 107,782	1,127,390
12	514	Miscellaneous Plant	9.50%	$ 79,716	$ 93,932	$ 74,656	$ 55,950	$ 89,412	$ 86,790	$ 93,765	$ 47,868	$ 64,072	$ 109,355	$ 77,670	$ 77,707	$ 75,782	$ 75,349	$ 79,195	932,913
13		**Total Steam Power Maintenance**	**39.67%**	**$ 822,248**	**$ 745,620**	**$ 612,706**	**$ 312,359**	**$ 547,390**	**$ 384,413**	**$ 220,976**	**$ 277,183**	**$ 390,160**	**$ 278,567**	**$ 291,511**	**$ 119,157**	**$ 410,469**	**$ 324,569**	**$ 338,880**	**$ 3,895,635**
	Other Power Operation																		
14	546	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
15	548	Generation Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
16	549	Miscellaneous	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
17	550	Rents	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
18		**Total Other Power Operation**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Other Power Maintenance																		
19	551	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
20	552	Structures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
21	553	Electric Plant	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
22	554	**Miscellaneous Plant** [1]	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
23		**Total Other Power Maintenance**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Other Power Supply																		
24	556	System Control & Load Dispatch [2]	1.04%	$ 10,946	$ 7,172	$ 13,576	$ 7,684	$ 10,204	$ 10,399	$ 8,600	$ 10,302	$ 8,005	$ 6,572	$ 8,625	$ 7,658	$ 8,616	$ 7,914	$ 7,814	$ 102,394
25	557	Other Expenditures	2.67%	$ 2,524	$ 79,117	$ 75,272	$ 73,141	$ 112,734	$ 130,575	$ 75,235	$ 108,188	$ (59,850)	$ (51,791)	$ (138,420)	$ (46,225)	$ 18,518	$ 16,793	$ 22,866	261,764
26		**Total Other Power Supply**	**3.71%**	**$ 13,471**	**$ 86,289**	**$ 88,848**	**$ 80,826**	**$ 122,938**	**$ 140,974**	**$ 83,834**	**$ 118,490**	**$ (51,845)**	**$ (45,219)**	**$ (129,795)**	**$ (38,567)**	**$ 27,134**	**$ 24,706**	**$ 30,681**	**$ 364,159**
27	**Totals**		**100.00%**	**$ 1,336,310**	**$ 1,235,415**	**$ 1,237,319**	**$ 859,220**	**$ 1,054,228**	**$ 1,000,539**	**$ 779,123**	**$ 866,956**	**$ 814,497**	**$ 827,320**	**$ 676,226**	**$ 609,123**	**$ 666,724**	**$ 794,143**	**$ 871,576**	**$ 9,819,674**

Notes:

This schedule contains estimates for the period of October 1, 2020 through December 31, 2020, referred to as the "Update Period." As discussed by Southwestern Public Service Company ("SPS") witness William A. Grant, SPS will file actual costs for the Update Period, including an updated version of this schedule, no later than the 45th day after the date of the initial filing of this rate case, as required by PURA § 36.112.

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[1] A portion of Miscellaneous Plant expenses were not directly assignable to the plants.

[2] System Control & Load Dispatch expenses were not directly assignable to the plants.

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Southwestern Public Service Company

Natural Gas (Steam Generation) O&M Summary

Plant Name: Plant X

Line No.	FERC Account	Description of Account	Percent Total	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Estimated October 2020	Estimated November 2020	Estimated December 2020	Updated Test Year Totals[3]
	Steam Power Operation																		
1	500	Supervision & Engineering	7.99%	$ 36,525	$ 66,999	$ 19,891	$ 42,744	$ 55,317	$ 63,272	$ 44,117	$ 86,043	$ 90,094	$ 118,481	$ 83,765	$ 98,090	$ 6,574	$ 6,246	$ 9,116	$ 703,859
2	502	Steam Expense	6.53%	$ 97,861	$ 65,338	$ 81,187	$ 69,649	$ 46,195	$ 45,647	$ 71,392	$ 73,675	$ 80,378	$ 42,305	$ 32,695	$ 35,328	$ 26,255	$ 25,589	$ 26,115	575,222
3	505	Electric Expense	9.08%	$ 69,257	$ 61,134	$ 82,395	$ 56,907	$ 52,911	$ 56,293	$ 81,473	$ 44,500	$ 47,390	$ 44,406	$ 44,529	$ 48,535	$ 111,064	$ 107,301	$ 104,343	799,650
4	506	Miscellaneous	20.49%	$ 117,655	$ 123,934	$ 65,703	$ 162,680	$ 113,965	$ 99,815	$ 68,564	$ 112,816	$ 124,847	$ 166,304	$ 98,481	$ 139,483	$ 233,439	$ 218,119	$ 266,271	1,804,784
5	507	Rent	4.81%	$ 45,821	$ 46,089	$ 71,764	$ 36,414	$ 33,311	$ 29,201	$ 41,303	$ 43,791	$ 36,059	$ 34,373	$ 34,681	$ 38,043	$ 32,052	$ 32,243	$ 32,053	423,523
6	509	Allowances	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
7		**Total Steam Power Operations**	**48.89%**	**$ 367,120**	**$ 363,494**	**$ 320,941**	**$ 368,394**	**$ 301,700**	**$ 294,227**	**$ 306,849**	**$ 360,825**	**$ 378,767**	**$ 405,869**	**$ 294,151**	**$ 359,478**	**$ 409,383**	**$ 389,497**	**$ 437,898**	**$ 4,307,039**
	Steam Power Maintenance																		
8	510	Supervision & Engineering	-0.01%	$ (3,695)	$ -	$ -	$ -	$ -	$ 24	$ 745	$ (1,668)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ (900)
9	511	Structures	6.32%	$ 419,903	$ 63,058	$ 28,747	$ 84,789	$ 65,373	$ 57,023	$ 25,380	$ 20,421	$ 40,029	$ 39,542	$ 29,925	$ 27,686	$ 65,369	$ 53,705	$ 47,188	556,430
10	512	Boilers	19.18%	$ 138,054	$ 131,691	$ 254,956	$ 80,387	$ 27,961	$ 30,092	$ 137,393	$ 94,158	$ 76,960	$ 73,750	$ 92,757	$ 872,097	$ 79,593	$ 63,082	$ 61,371	1,689,599
11	513	Electric Plant	9.57%	$ 259,076	$ 278,951	$ 346,436	$ 100,746	$ 86,276	$ 86,987	$ 156,124	$ 311,110	$ 204,204	$ (443,897)	$ 55,717	$ 42,507	$ 72,750	$ 84,247	$ 85,911	842,681
12	514	Miscellaneous Plant	10.28%	$ 134,357	$ 92,374	$ 125,822	$ 68,284	$ 123,342	$ 106,555	$ 103,910	$ 75,736	$ 83,074	$ 100,592	$ 73,890	$ 70,759	$ 40,881	$ 29,945	$ 28,333	905,301
13		**Total Steam Power Maintenance**	**45.33%**	**$ 947,694**	**$ 566,074**	**$ 755,962**	**$ 334,206**	**$ 302,952**	**$ 280,681**	**$ 423,551**	**$ 499,756**	**$ 404,267**	**$ (230,012)**	**$ 252,289**	**$ 1,013,049**	**$ 258,592**	**$ 230,978**	**$ 222,803**	**$ 3,993,111**
	Other Power Operation																		
14	546	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
15	548	Generation Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
16	549	Miscellaneous	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
17	550	Rents	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
18		**Total Other Power Operation**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Other Power Maintenance																		
19	551	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
20	552	Structures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
21	553	Electric Plant	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
22	554	Miscellaneous Plant[1]	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
23		**Total Other Power Maintenance**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Other Power Supply																		
24	556	System Control & Load Dispatch[2]	1.63%	$ 15,323	$ 10,040	$ 19,004	$ 10,757	$ 14,284	$ 14,557	$ 12,038	$ 14,421	$ 11,205	$ 9,200	$ 12,074	$ 10,720	$ 12,062	$ 11,078	$ 10,939	$ 143,334
25	557	Other Expenditures	4.16%	$ 3,534	$ 110,749	$ 105,368	$ 102,385	$ 157,807	$ 182,782	$ 105,316	$ 151,444	$ (83,779)	$ (72,498)	$ (193,764)	$ (64,707)	$ 25,922	$ 23,507	$ 32,009	366,424
26		**Total Other Power Supply**	**5.79%**	**$ 18,856**	**$ 120,789**	**$ 124,372**	**$ 113,141**	**$ 172,091**	**$ 197,339**	**$ 117,353**	**$ 165,866**	**$ (72,574)**	**$ (63,299)**	**$ (181,690)**	**$ (53,987)**	**$ 37,983**	**$ 34,585**	**$ 42,948**	**$ 509,758**
27	**Totals**		**100.00%**	**$ 1,333,671**	**$ 1,050,358**	**$ 1,201,274**	**$ 815,741**	**$ 776,743**	**$ 772,247**	**$ 847,753**	**$ 1,026,447**	**$ 710,460**	**$ 112,558**	**$ 364,750**	**$ 1,318,541**	**$ 705,958**	**$ 655,060**	**$ 703,649**	**$ 8,809,908**

Notes:

This schedule contains estimates for the period of October 1, 2020 through December 31, 2020, referred to as the "Update Period." As discussed by Southwestern Public Service Company ("SPS") witness William A. Grant, SPS will file actual costs for the Update Period, including an updated version of this schedule, no later than the 45th day after the date of the initial filing of this rate case, as required by PURA § 36.112.

Costs not directly assigned to a plant were allocated on the basis of directly assigned plant costs in each FERC account to total directly assigned costs in each FERC account.

Utility Share $ and % not applicable because SPS does not jointly own any generation facilities.

[1] A portion of Miscellaneous Plant expenses were not directly assignable to the plants.

[2] System Control & Load Dispatch expenses were not directly assignable to the plants.

(3) This column represents the total amounts for the period between January 1, 2020 and December 31, 2020 also known as the updated test year.

Southwestern Public Service Company

Natural Gas (Combustion Turbine) O&M Summary

Total Summary

Line No.	FERC Account	Description of Account	Percent Total	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Estimated October 2020	Estimated November 2020	Estimated December 2020	Updated Test Year Totals[3]
		Steam Power Operation																	
1	500	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2	502	Steam Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	505	Electric Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
4	506	Miscellaneous	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
5	507	Rent	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
6	509	Allowances	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
7		**Total Steam Power Operations**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
		Steam Power Maintenance																	
8	510	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
9	511	Structures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
10	512	Boilers	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
11	513	Electric Plant	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
12	514	Miscellaneous Plant	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
13		**Total Steam Power Maintenance**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
		Other Power Operation																	
14	546	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
15	548	Generation Expense	12.14%	$ 18,561	$ 19,006	$ 22,293	$ 21,364	$ 19,567	$ 21,537	$ 20,771	$ 15,550	$ 25,783	$ 33,004	$ 29,880	$ 28,892	$ 56,442	$ 55,485	$ 56,963	385,238
16	549	Miscellaneous	13.71%	$ 6,804	$ (5,092)	$ 15,935	$ 9,436	$ 9,936	$ 18,693	$ 78,484	$ (63,543)	$ 14,359	$ 19,526	$ 6,583	$ 12,175	$ 10,429	$ 10,579	$ 308,380	435,038
17	550	Rents	0.31%	$ -	$ -	$ -	$ 2,052	$ 1,271	$ -	$ 2,643	$ 1,284	$ 1,236	$ (1,210)	$ 1,240	$ 1,261	$ -	$ -	$ -	9,778
18		**Total Other Power Operation**	**26.15%**	**$ 25,364**	**$ 13,915**	**$ 38,229**	**$ 32,852**	**$ 30,775**	**$ 40,230**	**$ 101,899**	**$ (46,708)**	**$ 41,378**	**$ 51,320**	**$ 37,702**	**$ 42,328**	**$ 66,871**	**$ 66,063**	**$ 365,343**	**$ 830,054**
		Other Power Maintenance																	
19	551	Supervision & Engineering	0.00%	$ 43,799	$ 34,260	$ 39,901	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
20	552	Structures	5.72%	$ 14,971	$ 42,991	$ 91,928	$ 20,466	$ 3,940	$ 11,798	$ 6,930	$ 10,576	$ 33,843	$ 7,454	$ 18,805	$ 24,106	$ 15,402	$ 15,399	$ 12,745	181,464
21	553	Electric Plant	68.03%	$ 74,634	$ 134,908	$ 69,570	$ 38,710	$ 31,170	$ 61,560	$ 67,794	$ 81,691	$ 76,449	$ 134,441	$ 81,284	$ 69,975	$ 613,139	$ 563,654	$ 339,336	2,159,202
22	554	Miscellaneous Plant [1]	0.11%	$ 3,803	$ 1,418	$ 5,758	$ (1)	$ 2	$ -	$ 1,848	$ (751)	$ 5	$ 353	$ 1,329	$ 581	$ -	$ -	$ -	3,366
23		**Total Other Power Maintenance**	**73.85%**	**$ 137,207**	**$ 213,576**	**$ 207,157**	**$ 59,175**	**$ 35,112**	**$ 73,358**	**$ 76,573**	**$ 91,516**	**$ 110,297**	**$ 142,248**	**$ 101,418**	**$ 94,661**	**$ 628,540**	**$ 579,053**	**$ 352,081**	**$ 2,344,032**
		Other Power Supply																	
24	556	System Control & Load Dispatch [2]	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
25	557	Other Expenditures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
26		**Total Other Power Supply**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
27	**Totals**		**100.00%**	**$ 162,571**	**$ 227,491**	**$ 245,386**	**$ 92,027**	**$ 65,887**	**$ 113,588**	**$ 178,472**	**$ 44,808**	**$ 151,675**	**$ 193,568**	**$ 139,120**	**$ 136,989**	**$ 695,411**	**$ 645,116**	**$ 717,424**	**$ 3,174,086**

Notes: This schedule contains estimates for the period of October 1, 2020 through December 31, 2020, referred to as the "Update Period." As discussed by Southwestern Public Service Company ("SPS") witness William A. Grant, SPS will file actual costs for the Update Period, including an updated version of this schedule, no later than the 45th day after the date of the initial filing of this rate case, as required by PURA § 36.112.

Costs not directly assigned to a plant were allocated on the basis of directly assigned plant costs in each FERC account to total directly assigned costs in each FERC account.

Utility Share $ and % not applicable because SPS does not jointly own any generation facilities.

[1] A portion of Miscellaneous Plant expenses were not directly assignable to the plants.

[2] System Control & Load Dispatch expenses were not directly assignable to the plants.

[3] This column represents the total amounts for the period between January 1, 2020 and December 31, 2020 also known as the updated test year.

Southwestern Public Service Company

Natural Gas (Combustion Turbine) O&M Summary

Plant Name: Carlsbad[4]

Line No.	FERC Account	Description of Account	Percent Total	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Estimated October 2020	Estimated November 2020	Estimated December 2020	Updated Test Year Totals[3]
		Steam Power Operation																	
1	500	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2	502	Steam Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
3	505	Electric Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
4	506	Miscellaneous	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
5	507	Rent	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
6	509	Allowances	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
7		**Total Steam Power Operations**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
		Steam Power Maintenance																	
8	510	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
9	511	Structures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
10	512	Boilers	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
11	513	Electric Plant	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
12	514	Miscellaneous Plant	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
13		**Total Steam Power Maintenance**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
		Other Power Operation																	
14	546	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
15	548	Generation Expense	2.88%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 202	$ 201	$ 190	592
16	549	Miscellaneous	94.64%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 287	$ 288	$ 18,889	19,464
17	550	Rents	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
18		**Total Other Power Operation**	**97.53%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 488**	**$ 489**	**$ 19,079**	**$ 20,056**
		Other Power Maintenance																	
19	551	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
20	552	Structures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
21	553	Electric Plant	2.47%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 151	$ 151	$ 207	509
22	554	Miscellaneous Plant[1]	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
23		**Total Other Power Maintenance**	**2.47%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 151**	**$ 151**	**$ 207**	**$ 509**
		Other Power Supply																	
24	556	System Control & Load Dispatch[2]	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
25	557	Other Expenditures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
26		**Total Other Power Supply**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
27	**Totals**		**100.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 639**	**$ 640**	**$ 19,286**	**$ 20,565**

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[1] A portion of Miscellaneous Plant expenses were not directly assignable to the plants.

[2] System Control & Load Dispatch expenses were not directly assignable to the plants.

[3] This column represents the total amounts for the period between January 1, 2020 and December 31, 2020 also known as the updated test year.

[4] Carlsbad was placed in retirement December of 2017.

Southwestern Public Service Company

Natural Gas (Combustion Turbine) O&M Summary

Plant Name: Cunningham

Line No.	FERC Account	Description of Account	Percent Total	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Estimated October 2020	Estimated November 2020	Estimated December 2020	Updated Test Year Totals[3]
	Steam Power Operation																		
1	500	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2	502	Steam Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
3	505	Electric Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
4	506	Miscellaneous	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
5	507	Rent	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
6	509	Allowances	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
7		**Total Steam Power Operations**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Steam Power Maintenance																		
8	510	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
9	511	Structures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
10	512	Boilers	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
11	513	Electric Plant	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
12	514	Miscellaneous Plant	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
13		**Total Steam Power Maintenance**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Other Power Operation																		
14	546	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
15	548	Generation Expense	10.17%	$ 8,880	$ 10,798	$ 13,981	$ 11,163	$ 9,615	$ 11,788	$ 11,441	$ 12,665	$ 13,117	$ 17,536	$ 18,520	$ 17,750	$ 1,048	$ 1,046	$ 986	126,674
16	549	Miscellaneous	7.24%	$ 3,274	$ (8,554)	$ 12,594	$ 5,977	$ 5,968	$ 15,074	$ 36,102	$ (32,736)	$ 10,709	$ 15,882	$ 3,002	$ 8,675	$ 317	$ 318	$ 20,876	90,165
17	550	Rents	0.79%	$ -	$ -	$ -	$ 2,052	$ 1,271	$ -	$ 2,643	$ 1,284	$ 1,236	$ (1,210)	$ 1,240	$ 1,261	$ -	$ -	$ -	9,778
18		**Total Other Power Operation**	**18.20%**	**$ 12,154**	**$ 2,243**	**$ 26,575**	**$ 19,192**	**$ 16,854**	**$ 26,862**	**$ 50,186**	**$ (18,787)**	**$ 25,062**	**$ 32,209**	**$ 22,761**	**$ 27,686**	**$ 1,365**	**$ 1,365**	**$ 21,862**	**$ 226,617**
	Other Power Maintenance																		
19	551	Supervision & Engineering	0.00%	$ 43,799	$ 34,260	$ 39,901	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
20	552	Structures	6.59%	$ 8,730	$ 20,445	$ 88,799	$ 15,589	$ 2,349	$ 3,169	$ 1,169	$ 2,203	$ 30,451	$ 1,817	$ 13,385	$ 3,454	$ 2,791	$ 2,788	$ 2,916	82,080
21	553	Electric Plant	75.13%	$ 20,761	$ 9,558	$ 16,792	$ 13,699	$ 16,245	$ 16,121	$ 12,034	$ 20,810	$ 58,670	$ 21,404	$ 15,698	$ 20,891	$ 282,700	$ 275,848	$ 181,296	935,416
22	554	Miscellaneous Plant[1]	0.08%	$ 3,803	$ 1,418	$ 5,758	$ (1)	$ 2	$ -	$ 1,848	$ (906)	$ 5	$ (11)	$ 4	$ (2)	$ -	$ -	$ -	939
23		**Total Other Power Maintenance**	**81.80%**	**$ 77,092**	**$ 65,681**	**$ 151,250**	**$ 29,287**	**$ 18,595**	**$ 19,290**	**$ 15,051**	**$ 22,106**	**$ 89,126**	**$ 23,211**	**$ 29,087**	**$ 24,344**	**$ 285,491**	**$ 278,636**	**$ 184,212**	**$ 1,018,436**
	Other Power Supply																		
24	556	System Control & Load Dispatch[2]	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
25	557	Other Expenditures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
26		**Total Other Power Supply**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
27	**Totals**		**100.00%**	**$ 89,246**	**$ 67,924**	**$ 177,825**	**$ 48,479**	**$ 35,449**	**$ 46,152**	**$ 65,237**	**$ 3,319**	**$ 114,188**	**$ 55,420**	**$ 51,848**	**$ 52,030**	**$ 286,856**	**$ 280,001**	**$ 206,075**	**$ 1,245,052**

Notes: This schedule contains estimates for the period of October 1, 2020 through December 31, 2020, referred to as the "Update Period." As discussed by Southwestern Public Service Company ("SPS") witness William A. Grant, SPS will file actual costs for the Update Period, including an updated version of this schedule, no later than the 45th day after the date of the initial filing of this rate case, as required by PURA § 36.112.

Costs not directly assigned to a plant were allocated on the basis of directly assigned plant costs in each FERC account to total directly assigned costs in each FERC account.

Utility Share $ and % not applicable because SPS does not jointly own any generation facilities.

[1] A portion of Miscellaneous Plant expenses were not directly assignable to the plants.

[2] System Control & Load Dispatch expenses were not directly assignable to the plants.

[3] This column represents the total amounts for the period between January 1, 2020 and December 31, 2020 also known as the updated test year.

Southwestern Public Service Company

Natural Gas (Combustion Turbine) O&M Summary

Plant Name: Maddox

Line No.	FERC Account	Description of Account	Percent Total	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Estimated October 2020	Estimated November 2020	Estimated December 2020	Updated Test Year Totals[3]
	Steam Power Operation																		
1	500	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2	502	Steam Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
3	505	Electric Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
4	506	Miscellaneous	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
5	507	Rent	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
6	509	Allowances	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
7		**Total Steam Power Operations**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Steam Power Maintenance																		
8	510	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
9	511	Structures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
10	512	Boilers	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
11	513	Electric Plant	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
12	514	Miscellaneous Plant	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
13		**Total Steam Power Maintenance**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Other Power Operation																		
14	546	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
15	548	Generation Expense	31.31%	$ 9,680	$ 8,209	$ 8,312	$ 10,201	$ 9,953	$ 9,749	$ 9,331	$ 2,886	$ 12,665	$ 15,468	$ 11,360	$ 11,142	$ 55,193	$ 54,237	$ 55,787	257,971
16	549	Miscellaneous	34.52%	$ 2,744	$ 2,711	$ 2,671	$ 2,765	$ 2,804	$ 2,893	$ 36,253	$ (31,524)	$ 2,937	$ 2,912	$ 2,862	$ 2,797	$ 9,407	$ 9,549	$ 240,785	284,440
17	550	Rents	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
18		**Total Other Power Operation**	**65.83%**	**$ 12,425**	**$ 10,920**	**$ 10,983**	**$ 12,965**	**$ 12,757**	**$ 12,642**	**$ 45,584**	**$ (28,639)**	**$ 15,603**	**$ 18,379**	**$ 14,222**	**$ 13,939**	**$ 64,600**	**$ 63,786**	**$ 296,572**	**$ 542,411**
	Other Power Maintenance																		
19	551	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
20	552	Structures	1.29%	$ 1,228	$ 2,883	$ 478	$ 1,050	$ 50	$ 874	$ 1,135	$ 2,414	$ 875	$ 2,114	$ 1,748	$ 331	$ -	$ -	$ -	10,592
21	553	Electric Plant	32.88%	$ 9,868	$ 6,162	$ 16,295	$ 16,647	$ 10,584	$ 10,194	$ 27,008	$ 46,292	$ 6,748	$ 17,718	$ 11,740	$ 27,822	$ 28,092	$ 27,435	$ 40,662	270,939
22	554	Miscellaneous Plant[1]	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
23		**Total Other Power Maintenance**	**34.17%**	**$ 11,096**	**$ 9,045**	**$ 16,773**	**$ 17,697**	**$ 10,634**	**$ 11,068**	**$ 28,143**	**$ 48,706**	**$ 7,623**	**$ 19,832**	**$ 13,488**	**$ 28,153**	**$ 28,092**	**$ 27,435**	**$ 40,662**	**$ 281,531**
	Other Power Supply																		
24	556	System Control & Load Dispatch[2]	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
25	557	Other Expenditures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
26		**Total Other Power Supply**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
27	**Totals**		**100.00%**	**$ 23,521**	**$ 19,965**	**$ 27,756**	**$ 30,662**	**$ 23,391**	**$ 23,710**	**$ 73,727**	**$ 20,067**	**$ 23,225**	**$ 38,211**	**$ 27,710**	**$ 42,092**	**$ 92,692**	**$ 91,220**	**$ 337,234**	**$ 823,942**

Notes: This schedule contains estimates for the period of October 1, 2020 through December 31, 2020, referred to as the "Update Period." As discussed by Southwestern Public Service Company ("SPS") witness William A. Grant, SPS will file actual costs for the Update Period, including an updated version of this schedule, no later than the 45th day after the date of the initial filing of this rate case, as required by PURA § 36.112.

Costs not directly assigned to a plant were allocated on the basis of directly assigned plant costs in each FERC account to total directly assigned costs in each FERC account.

Utility Share $ and % not applicable because SPS does not jointly own any generation facilities.

[1] A portion of Miscellaneous Plant expenses were not directly assignable to the plants.

[2] System Control & Load Dispatch expenses were not directly assignable to the plants.

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Southwestern Public Service Company

Natural Gas (Combustion Turbine) O&M Summary

Plant Name: Jones

Line No.	FERC Account	Description of Account	Percent Total	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Estimated October 2020	Estimated November 2020	Estimated December 2020	Updated Test Year Totals[3]
	Steam Power Operation																		
1	500	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2	502	Steam Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
3	505	Electric Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
4	506	Miscellaneous	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
5	507	Rent	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
6	509	Allowances	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
7		**Total Steam Power Operations**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Steam Power Maintenance																		
8	510	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
9	511	Structures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
10	512	Boilers	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
11	513	Electric Plant	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
12	514	Miscellaneous Plant	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
13		**Total Steam Power Maintenance**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Other Power Operation																		
14	546	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
15	548	Generation Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
16	549	Miscellaneous	3.78%	$ 785	$ 751	$ 671	$ 694	$ 1,164	$ 727	$ 6,129	$ 718	$ 713	$ 731	$ 719	$ 703	$ 417	$ 424	$ 27,830	40,969
17	550	Rents	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
18		**Total Other Power Operation**	**3.78%**	**$ 785**	**$ 751**	**$ 671**	**$ 694**	**$ 1,164**	**$ 727**	**$ 6,129**	**$ 718**	**$ 713**	**$ 731**	**$ 719**	**$ 703**	**$ 417**	**$ 424**	**$ 27,830**	**$ 40,969**
	Other Power Maintenance																		
19	551	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
20	552	Structures	8.19%	$ 5,013	$ 19,662	$ 2,651	$ 3,827	$ 1,541	$ 7,755	$ 4,626	$ 5,959	$ 2,518	$ 3,522	$ 3,672	$ 20,321	$ 12,611	$ 12,611	$ 9,829	88,792
21	553	Electric Plant	87.81%	$ 44,006	$ 119,188	$ 36,483	$ 8,365	$ 4,342	$ 35,245	$ 28,753	$ 14,590	$ 11,031	$ 95,319	$ 53,846	$ 21,261	$ 302,197	$ 260,220	$ 117,170	952,338
22	554	Miscellaneous Plant [1]	0.22%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 155	$ -	$ 364	$ 1,325	$ 583	$ -	$ -	$ -	2,427
23		**Total Other Power Maintenance**	**96.22%**	**$ 49,019**	**$ 138,850**	**$ 39,134**	**$ 12,192**	**$ 5,883**	**$ 43,000**	**$ 33,379**	**$ 20,704**	**$ 13,548**	**$ 99,206**	**$ 58,843**	**$ 42,165**	**$ 314,807**	**$ 272,831**	**$ 127,000**	**$ 1,043,557**
	Other Power Supply																		
24	556	System Control & Load Dispatch [2]	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
25	557	Other Expenditures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
26		**Total Other Power Supply**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
27	**Totals**		**100.00%**	**$ 49,804**	**$ 139,601**	**$ 39,805**	**$ 12,886**	**$ 7,047**	**$ 43,726**	**$ 39,508**	**$ 21,422**	**$ 14,262**	**$ 99,937**	**$ 59,562**	**$ 42,867**	**$ 315,224**	**$ 273,254**	**$ 154,830**	**$ 1,084,526**

Notes: This schedule contains estimates for the period of October 1, 2020 through December 31, 2020, referred to as the "Update Period." As discussed by Southwestern Public Service Company ("SPS") witness William A. Grant, SPS will file actual costs for the Update Period, including an updated version of this schedule, no later than the 45th day after the date of the initial filing of this rate case, as required by PURA § 36.112.

Costs not directly assigned to a plant were allocated on the basis of directly assigned plant costs in each FERC account to total directly assigned costs in each FERC account.

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[1] A portion of Miscellaneous Plant expenses were not directly assignable to the plants.

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Southwestern Public Service Company

Coal Plant O&M Summary

Total Summary

Line No.	FERC Account	Description of Account	Percent Total	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Estimated October 2020	Estimated November 2020	Estimated December 2020	Updated Test Year Totals[3]
	Steam Power Operation																		
1	500	Supervision & Engineering	4.82%	$ 136,075	$ 115,438	$ 52,159	$ 161,251	$ 170,947	$ 189,050	$ 149,500	$ 107,100	$ 119,260	$ 191,119	$ 142,547	$ 161,648	$ 192,767	$ 176,899	$ 278,278	$ 2,040,365
2	502	Steam Expense	12.83%	$ 464,804	$ 526,663	$ 490,998	$ 460,317	$ 423,754	$ 436,259	$ 422,247	$ 459,426	$ 488,390	$ 583,429	$ 583,505	$ 471,858	$ 379,433	$ 347,331	$ 379,870	5,435,818
3	505	Electric Expense	9.31%	$ 277,757	$ 313,509	$ 427,734	$ 242,823	$ 227,675	$ 262,621	$ 226,440	$ 316,328	$ 320,334	$ 365,240	$ 353,921	$ 366,943	$ 585,213	$ 328,969	$ 349,651	3,946,158
4	506	Miscellaneous	17.13%	$ 497,646	$ 465,932	$ 536,721	$ 662,090	$ 576,694	$ 590,595	$ 456,296	$ 438,306	$ 579,549	$ 661,489	$ 191,489	$ 571,447	$ 830,836	$ 762,366	$ 936,633	7,257,788
5	507	Rent	4.77%	$ 233,995	$ 235,362	$ 366,479	$ 182,363	$ 152,466	$ 151,864	$ 192,249	$ 210,831	$ 174,727	$ 146,253	$ 168,263	$ 183,545	$ 152,034	$ 153,010	$ 152,042	2,019,647
6	509	Allowances	0.08%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 34,908	$ -	$ -	$ -	$ -	$ -	$ -	34,908
7		**Total Steam Power Operations**	**48.93%**	**$ 1,610,277**	**$ 1,656,904**	**$ 1,874,091**	**$ 1,708,842**	**$ 1,551,536**	**$ 1,630,389**	**$ 1,446,731**	**$ 1,531,991**	**$ 1,717,167**	**$ 1,947,530**	**$ 1,439,724**	**$ 1,755,440**	**$ 2,140,283**	**$ 1,768,576**	**$ 2,096,474**	**$ 20,734,683**
	Steam Power Maintenance																		
8	510	Supervision & Engineering	0.70%	$ 1,340	$ 6,436	$ (305)	$ 1,032	$ 4,114	$ (1,855)	$ (1,838)	$ 1,192	$ 1,360	$ 2,518	$ (2,124)	$ 2,547	$ 103,656	$ 92,464	$ 93,949	$ 297,015
9	511	Structures	4.31%	$ 208,577	$ 196,462	$ 212,633	$ 146,371	$ 160,402	$ 104,469	$ 145,952	$ 174,831	$ 197,623	$ 188,670	$ 200,145	$ 131,171	$ 136,799	$ 124,132	$ 115,887	1,826,452
10	512	Boilers	18.41%	$ 367,054	$ 454,056	$ 589,131	$ 502,970	$ 484,243	$ 1,413,316	$ 794,744	$ 734,824	$ 294,387	$ 361,336	$ 446,794	$ 265,163	$ 712,739	$ 768,382	$ 1,023,237	7,802,137
11	513	Electric Plant	9.43%	$ 166,459	$ 143,914	$ 185,245	$ 237,682	$ 280,422	$ 684,654	$ 457,245	$ 400,785	$ 174,851	$ 364,619	$ 205,148	$ 214,509	$ 188,933	$ 397,793	$ 390,035	3,996,677
12	514	Miscellaneous Plant	13.09%	$ 664,655	$ 558,470	$ 503,375	$ 487,087	$ 662,681	$ 571,416	$ 532,244	$ 393,491	$ 416,252	$ 461,269	$ 482,721	$ 392,370	$ 409,288	$ 363,899	$ 375,835	5,548,554
13		**Total Steam Power Maintenance**	**45.95%**	**$ 1,408,086**	**$ 1,359,338**	**$ 1,490,078**	**$ 1,375,143**	**$ 1,591,863**	**$ 2,772,000**	**$ 1,928,347**	**$ 1,705,123**	**$ 1,084,473**	**$ 1,378,413**	**$ 1,332,684**	**$ 1,005,760**	**$ 1,551,415**	**$ 1,746,671**	**$ 1,998,943**	**$ 19,470,834**
	Other Power Operation																		
14	546	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
15	548	Generation Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
16	549	Miscellaneous	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
17	550	Rents	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
18		**Total Other Power Operation**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Other Power Maintenance																		
19	551	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
20	552	Structures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
21	553	Electric Plant	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
22	554	Miscellaneous Plant[1]	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
23		**Total Other Power Maintenance**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Other Power Supply																		
24	556	System Control & Load Dispatch[2]	1.44%	$ 65,168	$ 42,700	$ 80,823	$ 45,748	$ 60,750	$ 61,910	$ 51,197	$ 61,333	$ 47,657	$ 39,126	$ 51,349	$ 45,591	$ 51,297	$ 47,114	$ 46,523	$ 609,596
25	557	Other Expenditures	3.68%	$ 15,028	$ 471,015	$ 448,127	$ 435,440	$ 671,151	$ 777,369	$ 447,905	$ 644,090	$ (356,311)	$ (308,334)	$ (824,073)	$ (275,196)	$ 110,245	$ 99,974	$ 136,132	1,558,393
26		**Total Other Power Supply**	**5.12%**	**$ 80,196**	**$ 513,714**	**$ 528,950**	**$ 481,188**	**$ 731,901**	**$ 839,280**	**$ 499,102**	**$ 705,423**	**$ (308,654)**	**$ (269,207)**	**$ (772,724)**	**$ (229,605)**	**$ 161,543**	**$ 147,088**	**$ 182,655**	**$ 2,167,989**
27	**Totals**		**100.00%**	**$ 3,098,560**	**$ 3,529,956**	**$ 3,893,119**	**$ 3,565,174**	**$ 3,875,299**	**$ 5,241,668**	**$ 3,874,180**	**$ 3,942,537**	**$ 2,492,986**	**$ 3,056,735**	**$ 1,999,685**	**$ 2,531,595**	**$ 3,853,241**	**$ 3,662,334**	**$ 4,278,072**	**$ 42,373,507**

Notes:

This schedule contains estimates for the period of October 1, 2020 through December 31, 2020, referred to as the "Update Period." As discussed by Southwestern Public Service Company ("SPS") witness William A. Grant, SPS will file actual costs for the Update Period, including an updated version of this schedule, no later than the 45th day after the date of the initial filing of this rate case, as required by PURA § 36.112.

Costs not directly assigned to a plant were allocated on the basis of directly assigned plant costs in each FERC account to total directly assigned costs in each FERC account.

Utility Share $ and % not applicable because SPS does not jointly own any generation facilities.

[1] A portion of Miscellaneous Plant expenses were not directly assignable to the plants.

[2] System Control & Load Dispatch expenses were not directly assignable to the plants.

(3) This column represents the total amounts for the period between January 1, 2020 and December 31, 2020 also known as the updated test year.

Southwestern Public Service Company

Coal Plant O&M Summary

Plant Name: Harrington

Line No.	FERC Account	Description of Account	Percent Total	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Estimated October 2020	Estimated November 2020	Estimated December 2020	Adjusted Test Year Totals[3]
	Steam Power Operation																		
1	500	Supervision & Engineering	6.26%	$ 98,385	$ 82,633	$ 28,144	$ 120,532	$ 113,809	$ 128,790	$ 106,502	$ 77,576	$ 76,632	$ 132,481	$ 113,510	$ 108,445	$ 156,264	$ 141,700	$ 223,305	$ 1,499,547
2	502	Steam Expense	14.37%	$ 299,084	$ 395,747	$ 325,267	$ 328,292	$ 274,222	$ 283,552	$ 243,207	$ 258,762	$ 264,251	$ 351,445	$ 331,913	$ 247,310	$ 275,283	$ 274,144	$ 308,279	3,440,659
3	505	Electric Expense	12.28%	$ 189,639	$ 205,894	$ 279,137	$ 188,671	$ 153,167	$ 186,866	$ 138,996	$ 223,118	$ 226,015	$ 271,092	$ 261,033	$ 281,134	$ 482,121	$ 248,871	$ 278,582	2,939,667
4	506	Miscellaneous	12.44%	$ 282,988	$ 250,611	$ 322,323	$ 288,141	$ 286,776	$ 334,130	$ 335,736	$ 221,150	$ 248,767	$ 303,189	$ 200,514	$ 306,112	$ 154,822	$ 135,286	$ 164,772	2,979,394
5	507	Rent	5.00%	$ 134,070	$ 134,853	$ 209,978	$ 103,886	$ 91,083	$ 98,446	$ 117,236	$ 126,434	$ 106,242	$ 92,687	$ 99,353	$ 110,101	$ 83,930	$ 84,490	$ 83,935	1,197,822
6	509	Allowances	0.15%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 34,908	$ -	$ -	$ -	$ -	$ -	$ -	34,908
7		**Total Steam Power Operations**	**50.50%**	**$ 1,004,166**	**$ 1,069,737**	**$ 1,164,850**	**$ 1,029,522**	**$ 919,057**	**$ 1,031,784**	**$ 941,676**	**$ 907,039**	**$ 956,815**	**$ 1,150,895**	**$ 1,006,323**	**$ 1,053,102**	**$ 1,152,421**	**$ 884,491**	**$ 1,058,872**	**$ 12,091,999**
	Steam Power Maintenance																		
8	510	Supervision & Engineering	0.01%	$ (1,343)	$ -	$ -	$ 151	$ 1,430	$ -	$ -	$ -	$ -	$ -	$ -	$ 546	$ -	$ -	$ -	$ 2,127
9	511	Structures	3.04%	$ 66,063	$ 91,037	$ 85,691	$ 37,945	$ 62,445	$ 27,466	$ 27,732	$ 52,943	$ 80,836	$ 95,275	$ 99,626	$ 60,440	$ 63,288	$ 58,781	$ 60,528	727,305
10	512	Boilers	20.71%	$ 225,529	$ 193,750	$ 246,861	$ 341,342	$ 312,792	$ 1,016,764	$ 574,799	$ 582,272	$ 260,530	$ 310,646	$ 352,333	$ 203,877	$ 435,239	$ 279,872	$ 287,849	4,958,314
11	513	Electric Plant	7.42%	$ 63,331	$ 34,524	$ 69,551	$ 101,130	$ 104,268	$ 443,234	$ 210,474	$ 128,253	$ 124,088	$ 115,555	$ 61,981	$ 146,475	$ 119,763	$ 107,844	$ 112,674	1,775,740
12	514	Miscellaneous Plant	12.52%	$ 327,260	$ 256,890	$ 184,058	$ 252,729	$ 252,407	$ 228,804	$ 200,564	$ 226,143	$ 220,238	$ 265,992	$ 289,063	$ 270,267	$ 283,867	$ 249,305	$ 257,681	2,997,060
13		**Total Steam Power Maintenance**	**43.69%**	**$ 680,840**	**$ 576,201**	**$ 586,162**	**$ 733,297**	**$ 733,343**	**$ 1,716,268**	**$ 1,013,569**	**$ 989,612**	**$ 685,691**	**$ 787,468**	**$ 803,004**	**$ 681,605**	**$ 902,157**	**$ 695,802**	**$ 718,732**	**$ 10,460,547**
	Other Power Operation																		
14	546	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
15	548	Generation Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
16	549	Miscellaneous	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
17	550	Rents	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
18		**Total Other Power Operation**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Other Power Maintenance																		
19	551	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
20	552	Structures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
21	553	Electric Plant	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
22	554	Miscellaneous Plant[1]	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
23		**Total Other Power Maintenance**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Other Power Supply																		
24	556	System Control & Load Dispatch[2]	1.63%	$ 41,831	$ 27,409	$ 51,880	$ 29,366	$ 38,995	$ 39,740	$ 32,863	$ 39,370	$ 30,591	$ 25,115	$ 32,961	$ 29,265	$ 32,928	$ 30,242	$ 29,863	$ 391,297
25	557	Other Expenditures	4.18%	$ 9,646	$ 302,342	$ 287,650	$ 279,507	$ 430,809	$ 498,990	$ 287,508	$ 413,438	$ (228,714)	$ (197,918)	$ (528,969)	$ (176,647)	$ 70,766	$ 64,173	$ 87,383	1,000,325
26		**Total Other Power Supply**	**5.81%**	**$ 51,477**	**$ 329,751**	**$ 339,531**	**$ 308,872**	**$ 469,804**	**$ 538,730**	**$ 320,371**	**$ 452,808**	**$ (198,124)**	**$ (172,803)**	**$ (496,008)**	**$ (147,382)**	**$ 103,694**	**$ 94,415**	**$ 117,245**	**$ 1,391,622**
27	**Totals**		**100.00%**	**$ 1,736,484**	**$ 1,975,689**	**$ 2,090,543**	**$ 2,071,692**	**$ 2,122,204**	**$ 3,286,782**	**$ 2,275,617**	**$ 2,349,459**	**$ 1,444,383**	**$ 1,765,559**	**$ 1,313,319**	**$ 1,587,325**	**$ 2,158,271**	**$ 1,674,709**	**$ 1,894,849**	**$ 23,944,168**

Notes:

This schedule contains estimates for the period of October 1, 2020 through December 31, 2020, referred to as the "Update Period." As discussed by Southwestern Public Service Company ("SPS") witness William A. Grant, SPS will file actual costs for the Update Period, including an updated version of this schedule, no later than the 45th day after the date of the initial filing of this rate case, as required by PURA § 36.112.

Costs not directly assigned to a plant were allocated on the basis of directly assigned plant costs in each FERC account to total directly assigned costs in each FERC account.

Utility Share $ and % not applicable because SPS does not jointly own any generation facilities.

(1) A portion of Miscellaneous Plant expenses were not directly assignable to the plants.

(2) System Control & Load Dispatch expenses were not directly assignable to the plants.

(3) This column represents the total amounts for the period between January 1, 2020 and December 31, 2020 also known as the updated test year.

Southwestern Public Service Company

Coal Plant O&M Summary

Plant Name: Tolk

Line No.	FERC Account	Description of Account	Percent Total	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Estimated October 2020	Estimated November 2020	Estimated December 2020	Adjusted Test Year Totals[3]
	Steam Power Operation																		
1	500	Supervision & Engineering	2.93%	$ 37,690	$ 32,806	$ 24,015	$ 40,719	$ 57,139	$ 60,260	$ 42,998	$ 29,525	$ 42,628	$ 58,637	$ 29,036	$ 53,202	$ 36,502	$ 35,198	$ 54,973	$ 540,818
2	502	Steam Expense	10.83%	$ 165,720	$ 130,916	$ 165,730	$ 132,025	$ 149,533	$ 152,707	$ 179,040	$ 200,664	$ 224,139	$ 231,983	$ 251,592	$ 224,548	$ 104,150	$ 73,187	$ 71,591	1,995,158
3	505	Electric Expense	5.46%	$ 88,118	$ 107,615	$ 148,597	$ 54,151	$ 74,508	$ 75,755	$ 87,444	$ 93,211	$ 94,318	$ 94,148	$ 92,888	$ 85,808	$ 103,092	$ 80,098	$ 71,070	1,006,491
4	506	Miscellaneous	23.22%	$ 214,658	$ 215,321	$ 214,397	$ 373,949	$ 289,918	$ 256,465	$ 120,560	$ 217,156	$ 330,782	$ 358,300	$ (9,025)	$ 265,335	$ 676,014	$ 627,080	$ 771,861	4,278,394
5	507	Rent	4.46%	$ 99,925	$ 100,509	$ 156,501	$ 78,476	$ 61,382	$ 53,418	$ 75,013	$ 84,397	$ 68,485	$ 53,566	$ 68,910	$ 73,444	$ 68,104	$ 68,521	$ 68,107	821,824
6	509	Allowances	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
7		**Total Steam Power Operations**	**46.90%**	**$ 606,111**	**$ 587,167**	**$ 709,241**	**$ 679,320**	**$ 632,479**	**$ 598,604**	**$ 505,055**	**$ 624,953**	**$ 760,352**	**$ 796,635**	**$ 433,401**	**$ 702,337**	**$ 987,862**	**$ 884,084**	**$ 1,037,602**	**$ 8,642,685**
	Steam Power Maintenance																		
8	510	Supervision & Engineering	1.60%	$ 2,683	$ 6,436	$ (305)	$ 881	$ 2,684	$ (1,855)	$ (1,838)	$ 1,192	$ 1,360	$ 2,518	$ (2,124)	$ 2,001	$ 103,656	$ 92,464	$ 93,949	$ 294,887
9	511	Structures	5.96%	$ 142,515	$ 105,425	$ 126,942	$ 108,426	$ 97,956	$ 77,003	$ 118,220	$ 121,888	$ 116,787	$ 93,395	$ 100,519	$ 70,731	$ 73,511	$ 65,351	$ 55,359	1,099,147
10	512	Boilers	15.43%	$ 141,525	$ 260,306	$ 342,269	$ 161,629	$ 171,452	$ 396,552	$ 219,945	$ 152,552	$ 33,857	$ 50,690	$ 94,461	$ 61,286	$ 277,500	$ 488,510	$ 735,389	2,843,823
11	513	Electric Plant	12.05%	$ 103,128	$ 109,390	$ 115,693	$ 136,552	$ 176,154	$ 241,420	$ 246,771	$ 272,532	$ 50,763	$ 249,064	$ 143,167	$ 68,034	$ 69,170	$ 289,949	$ 277,360	2,220,937
12	514	Miscellaneous Plant	13.84%	$ 337,395	$ 301,580	$ 319,317	$ 234,358	$ 410,274	$ 342,613	$ 331,680	$ 167,347	$ 196,014	$ 195,277	$ 193,657	$ 122,103	$ 125,422	$ 114,595	$ 118,154	2,551,493
13		**Total Steam Power Maintenance**	**48.89%**	**$ 727,246**	**$ 783,137**	**$ 903,916**	**$ 641,846**	**$ 858,520**	**$ 1,055,732**	**$ 914,778**	**$ 715,511**	**$ 398,782**	**$ 590,945**	**$ 529,681**	**$ 324,155**	**$ 649,259**	**$ 1,050,868**	**$ 1,280,211**	**$ 9,010,287**
	Other Power Operation																		
14	546	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
15	548	Generation Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
16	549	Miscellaneous	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
17	550	Rents	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
18		**Total Other Power Operation**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Other Power Maintenance																		
19	551	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
20	552	Structures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
21	553	Electric Plant	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
22	554	Miscellaneous Plant[1]	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
23		**Total Other Power Maintenance**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Other Power Supply																		
24	556	System Control & Load Dispatch[2]	1.18%	$ 23,337	$ 15,291	$ 28,943	$ 16,383	$ 21,755	$ 22,170	$ 18,334	$ 21,964	$ 17,066	$ 14,011	$ 18,388	$ 16,326	$ 18,370	$ 16,872	$ 16,660	$ 218,299
25	557	Other Expenditures	3.03%	$ 5,382	$ 168,673	$ 160,476	$ 155,933	$ 240,342	$ 278,380	$ 160,397	$ 230,651	$ (127,597)	$ (110,416)	$ (295,104)	$ (98,549)	$ 39,479	$ 35,801	$ 48,750	558,068
26		**Total Other Power Supply**	**4.21%**	**$ 28,718**	**$ 183,963**	**$ 189,419**	**$ 172,316**	**$ 262,097**	**$ 300,550**	**$ 178,731**	**$ 252,615**	**$ (110,530)**	**$ (96,404)**	**$ (276,716)**	**$ (82,223)**	**$ 57,849**	**$ 52,673**	**$ 65,410**	**$ 776,367**
27	**Totals**		**100.00%**	**$ 1,362,076**	**$ 1,554,267**	**$ 1,802,576**	**$ 1,493,482**	**$ 1,753,096**	**$ 1,954,887**	**$ 1,598,563**	**$ 1,593,078**	**$ 1,048,604**	**$ 1,291,176**	**$ 686,366**	**$ 944,270**	**$ 1,694,970**	**$ 1,987,626**	**$ 2,383,223**	**$ 18,429,339**

Notes:

This schedule contains estimates for the period of October 1, 2020 through December 31, 2020, referred to as the "Update Period." As discussed by Southwestern Public Service Company ("SPS") witness William A. Grant, SPS will file actual costs for the Update Period, including an updated version of this schedule, no later than the 45th day after the date of the initial filing of this rate case, as required by PURA § 36.112.

Costs not directly assigned to a plant were allocated on the basis of directly assigned plant costs in each FERC account to total directly assigned costs in each FERC account.

Utility Share $ and % not applicable because SPS does not jointly own any generation facilities.

[1] A portion of Miscellaneous Plant expenses were not directly assignable to the plants.

[2] System Control & Load Dispatch expenses were not directly assignable to the plants.

(3) This column represents the total amounts for the period between January 1, 2020 and December 31, 2020 also known as the updated test year.

Southwestern Public Service Company

Lignite Plant O&M Summary

Schedule H-1.2c is not applicable to Southwestern Public Service Company ("SPS") because SPS does not own or operate lignite facilities.

Southwestern Public Service Company

Other (Diesel) - Other Plant O&M Summary

Total Summary

Line No.	FERC Account	Description of Account	Percent Total	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Estimated October 2020	Estimated November 2020	Estimated December 2020	Updated Test Year Totals[3]
	Steam Power Operation																		
1	500	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2	502	Steam Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	505	Electric Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
4	506	Miscellaneous	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
5	507	Rent	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
6	509	Allowances	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
7		**Total Steam Power Operations**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Steam Power Maintenance																		
8	510	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
9	511	Structures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
10	512	Boilers	0.02%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,430	$ -	$ -	$ -	2,430
11	513	Electric Plant	0.01%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 966	$ -	$ -	$ -	$ -	966
12	514	Miscellaneous Plant	0.04%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,247	$ -	$ 1,385	$ 1,811	$ -	$ -	$ -	4,442
13		**Total Steam Power Maintenance**	**0.06%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 1,247**	**$ -**	**$ 2,351**	**$ 4,241**	**$ -**	**$ -**	**$ -**	**$ 7,838**
	Other Power Operation																		
14	546	Supervision & Engineering	4.21%	$ 47,985	$ 39,912	$ 18,747	$ 29,704	$ 46,371	$ 22,371	$ 30,587	$ 33,130	$ 31,936	$ 63,060	$ 41,750	$ 64,689	$ 39,869	$ 34,788	$ 80,461	$ 518,716
15	548	Generation Expense	0.01%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,294	$ -	$ -	$ -	$ -	$ -	$ -	1,294
16	549	Miscellaneous	36.78%	$ 359,720	$ 346,831	$ 427,644	$ 434,060	$ 358,510	$ 453,499	$ 377,542	$ 376,210	$ 434,841	$ 382,872	$ 388,192	$ 440,938	$ 383,514	$ 362,535	$ 136,141	4,528,853
17	550	Rents	18.52%	$ 226,492	$ 233,472	$ 263,559	$ 199,425	$ 193,182	$ 185,657	$ 191,091	$ 195,102	$ 187,812	$ 183,793	$ 187,085	$ 191,589	$ 188,478	$ 188,652	$ 188,653	2,280,519
18		**Total Other Power Operation**	**59.53%**	**$ 634,196**	**$ 620,215**	**$ 709,950**	**$ 663,188**	**$ 598,063**	**$ 661,527**	**$ 599,219**	**$ 604,442**	**$ 655,883**	**$ 629,726**	**$ 617,027**	**$ 697,216**	**$ 611,860**	**$ 585,975**	**$ 405,254**	**$ 7,329,382**
	Other Power Maintenance																		
19	551	Supervision & Engineering	4.00%	$ -	$ -	$ -	$ 16,366	$ 55,015	$ 55,135	$ 31,410	$ 31,741	$ 39,163	$ 34,242	$ 32,522	$ 46,127	$ 52,743	$ 48,542	$ 49,143	$ 492,148
20	552	Structures	0.21%	$ 41	$ 341	$ 92	$ 2,648	$ -	$ 56	$ -	$ 147	$ -	$ 12,674	$ 6,051	$ 4,211	$ 66	$ 67	$ 63	25,984
21	553	Electric Plant	3.14%	$ 8,358	$ 18,794	$ 20,793	$ 223,786	$ 58,673	$ 7,956	$ 10,332	$ 9,770	$ 11,853	$ 9,700	$ 26,015	$ 12,321	$ 4,961	$ 4,971	$ 6,796	387,134
22	554	Miscellaneous Plant [1]	33.06%	$ 330,754	$ 318,216	$ 404,262	$ 329,671	$ 307,678	$ 389,022	$ 322,258	$ 329,695	$ 369,411	$ 321,901	$ 325,369	$ 381,306	$ 337,305	$ 337,178	$ 319,609	4,070,403
23		**Total Other Power Maintenance**	**40.41%**	**$ 339,153**	**$ 337,352**	**$ 425,147**	**$ 572,471**	**$ 421,366**	**$ 452,169**	**$ 363,999**	**$ 371,353**	**$ 420,427**	**$ 378,518**	**$ 389,957**	**$ 443,966**	**$ 395,075**	**$ 390,757**	**$ 375,611**	**$ 4,975,668**
	Other Power Supply																		
24	556	System Control & Load Dispatch [2]	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
25	557	Other Expenditures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
26		**Total Other Power Supply**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
27	**Totals**		**100.00%**	**$ 973,349**	**$ 957,566**	**$ 1,135,097**	**$ 1,235,659**	**$ 1,019,429**	**$ 1,113,696**	**$ 963,219**	**$ 975,795**	**$ 1,077,556**	**$ 1,008,243**	**$ 1,006,984**	**$ 1,141,181**	**$ 1,006,936**	**$ 976,732**	**$ 780,866**	**$ 12,312,889**

Notes:

This schedule contains estimates for the period of October 1, 2020 through December 31, 2020, referred to as the "Update Period." As discussed by Southwestern Public Service Company ("SPS") witness William A. Grant, SPS will file actual costs for the Update Period, including an updated version of this schedule, no later than the 45th day after the date of the initial filing of this rate case, as required by PURA § 36.112.

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Utility Share $ and % not applicable because SPS does not jointly own any generation facilities.

[1] A portion of Miscellaneous Plant expenses were not directly assignable to the plants.

[2] System Control & Load Dispatch expenses were not directly assignable to the plants.

(3) This column represents the total amounts for the period between January 1, 2020 and December 31, 2020 also known as the updated test year.

Southwestern Public Service Company

Other (Diesel) - Other Plant O&M Summary

Plant Name: Quay

Line No.	FERC Account	Description of Account	Percent Total	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Estimated October 2020	Estimated November 2020	Estimated December 2020	Updated Test Year Totals[3]
	Steam Power Operation																		
1	500	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2	502	Steam Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	505	Electric Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
4	506	Miscellaneous	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
5	507	Rent	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
6	509	Allowances	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
7		**Total Steam Power Operations**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Steam Power Maintenance																		
8	510	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
9	511	Structures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
10	512	Boilers	0.90%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,430	$ -	$ -	$ -	2,430
11	513	Electric Plant	0.36%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 966	$ -	$ -	$ -	$ -	966
12	514	Miscellaneous Plant	1.65%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,247	$ -	$ 1,385	$ 1,811	$ -	$ -	$ -	4,442
13		**Total Steam Power Maintenance**	**2.91%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 1,247**	**$ -**	**$ 2,351**	**$ 4,241**	**$ -**	**$ -**	**$ -**	**$ 7,838**
	Other Power Operation																		
14	546	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
15	548	Generation Expense	0.48%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,294	$ -	$ -	$ -	$ -	$ -	$ -	1,294
16	549	Miscellaneous	39.62%	$ 905	$ 894	$ 881	$ 912	$ 802	$ 1,081	$ 10,457	$ (6,921)	$ 2,853	$ 3,623	$ 2,102	$ 4,201	$ 1,280	$ 1,300	$ 85,048	106,736
17	550	Rents	2.49%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,236	$ 2,230	$ 2,246	6,712
18		**Total Other Power Operation**	**42.60%**	**$ 905**	**$ 894**	**$ 881**	**$ 912**	**$ 802**	**$ 1,081**	**$ 10,457**	**$ (6,921)**	**$ 4,147**	**$ 3,623**	**$ 2,102**	**$ 4,201**	**$ 3,516**	**$ 3,530**	**$ 87,294**	**$ 114,743**
	Other Power Maintenance																		
19	551	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
20	552	Structures	7.42%	$ 41	$ 341	$ 92	$ 2,648	$ -	$ 56	$ -	$ 147	$ -	$ 12,674	$ 44	$ 4,211	$ 66	$ 67	$ 63	19,977
21	553	Electric Plant	47.07%	$ 3,328	$ 10,838	$ 20,793	$ 18,519	$ 31,509	$ 7,956	$ 10,332	$ 4,803	$ 11,853	$ 9,700	$ 14,827	$ 12,205	$ 1,513	$ 1,517	$ 2,062	126,795
22	554	Miscellaneous Plant [1]	0.01%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 24	$ -	$ -	$ -	$ -	$ -	$ -	$ -	24
23		**Total Other Power Maintenance**	**54.49%**	**$ 3,369**	**$ 11,179**	**$ 20,885**	**$ 21,167**	**$ 31,509**	**$ 8,012**	**$ 10,332**	**$ 4,974**	**$ 11,853**	**$ 22,375**	**$ 14,871**	**$ 16,416**	**$ 1,580**	**$ 1,583**	**$ 2,125**	**$ 146,796**
	Other Power Supply																		
24	556	System Control & Load Dispatch[2]	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
25	557	Other Expenditures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
26		**Total Other Power Supply**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
27	**Totals**		**100.00%**	**$ 4,274**	**$ 12,073**	**$ 21,766**	**$ 22,079**	**$ 32,310**	**$ 9,093**	**$ 20,788**	**$ (1,948)**	**$ 17,246**	**$ 25,997**	**$ 19,323**	**$ 24,858**	**$ 5,096**	**$ 5,113**	**$ 89,419**	**$ 269,377**

Notes: This schedule contains estimates for the period of October 1, 2020 through December 31, 2020, referred to as the "Update Period." As discussed by Southwestern Public Service Company ("SPS") witness William A. Grant, SPS will file actual costs for the Update Period, including an updated version of this schedule, no later than the 45th day after the date of the initial filing of this rate case, as required by PURA § 36.112.

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Utility Share $ and % not applicable because SPS does not jointly own any generation facilities.

[1] A portion of Miscellaneous Plant expenses were not directly assignable to the plants.

[2] System Control & Load Dispatch expenses were not directly assignable to the plants.

(3) This column represents the total amounts for the period between January 1, 2020 and December 31, 2020 also known as the updated test year.

Southwestern Public Service Company

Other (Diesel) - Other Plant O&M Summary

Plant Name: Gaines County[4]

Line No.	FERC Account	Description of Account	Percent Total	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Estimated October 2020	Estimated November 2020	Estimated December 2020	Updated Test Year Totals[3]
	Steam Power Operation																		
1	500	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2	502	Steam Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
3	505	Electric Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
4	506	Miscellaneous	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
5	507	Rent	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
6	509	Allowances	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
7		**Total Steam Power Operations**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Steam Power Maintenance																		
8	510	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
9	511	Structures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
10	512	Boilers	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
11	513	Electric Plant	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
12	514	Miscellaneous Plant	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
13		**Total Steam Power Maintenance**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Other Power Operation																		
14	546	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
15	548	Generation Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
16	549	Miscellaneous	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
17	550	Rents	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
18		**Total Other Power Operation**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Other Power Maintenance																		
19	551	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
20	552	Structures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
21	553	Electric Plant	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
22	554	Miscellaneous Plant [1]	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
23		**Total Other Power Maintenance**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Other Power Supply																		
24	556	System Control & Load Dispatch [2]	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
25	557	Other Expenditures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
26		**Total Other Power Supply**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
27	**Totals**		**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

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[4] Gaines County includes the writeoff of Capital investment.

Southwestern Public Service Company

Other (Diesel) - Other Plant O&M Summary

Plant Name: Hale

Line No.	FERC Account	Description of Account	Percent Total	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Estimated October 2020	Estimated November 2020	Estimated December 2020	Updated Test Year Totals[3]
	Steam Power Operation																		
1	500	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2	502	Steam Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
3	505	Electric Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
4	506	Miscellaneous	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
5	507	Rent	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
6	509	Allowances	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
7		**Total Steam Power Operations**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Steam Power Maintenance																		
8	510	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
9	511	Structures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
10	512	Boilers	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
11	513	Electric Plant	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
12	514	Miscellaneous Plant	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
13		**Total Steam Power Maintenance**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Other Power Operation																		
14	546	Supervision & Engineering	3.95%	$ 47,985	$ 39,912	$ 18,747	$ 29,704	$ 46,371	$ 22,371	$ 30,587	$ 33,130	$ 31,936	$ 63,060	$ 41,750	$ 32,539	$ 39,869	$ 34,788	$ 80,461	$ 486,566
15	548	Generation Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
16	549	Miscellaneous	38.34%	$ 358,815	$ 345,937	$ 426,763	$ 433,148	$ 357,709	$ 452,418	$ 367,085	$ 383,131	$ 431,988	$ 379,250	$ 386,090	$ 436,737	$ 382,234	$ 361,235	$ 351,093	4,722,117
17	550	Rents	18.46%	$ 226,492	$ 233,472	$ 263,559	$ 199,425	$ 193,182	$ 185,657	$ 191,091	$ 195,102	$ 187,812	$ 183,793	$ 187,085	$ 191,589	$ 186,241	$ 186,422	$ 186,407	2,273,806
18		**Total Other Power Operation**	**60.75%**	**$ 633,291**	**$ 619,321**	**$ 709,070**	**$ 662,276**	**$ 597,262**	**$ 660,446**	**$ 588,763**	**$ 611,364**	**$ 651,736**	**$ 626,103**	**$ 614,924**	**$ 660,864**	**$ 608,345**	**$ 582,445**	**$ 617,960**	**$ 7,482,489**
	Other Power Maintenance																		
19	551	Supervision & Engineering	4.00%	$ -	$ -	$ -	$ 16,366	$ 55,015	$ 55,135	$ 31,410	$ 31,741	$ 39,163	$ 34,242	$ 32,522	$ 46,127	$ 52,743	$ 48,542	$ 49,143	$ 492,148
20	552	Structures	0.05%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 6,007	$ -	$ -	$ -	$ -	6,007
21	553	Electric Plant	2.11%	$ 5,030	$ 7,957	$ -	$ 205,267	$ 27,165	$ -	$ -	$ 4,967	$ -	$ -	$ 11,189	$ 116	$ 3,448	$ 3,454	$ 4,734	260,339
22	554	Miscellaneous Plant [1]	33.09%	$ 330,754	$ 318,216	$ 404,262	$ 329,671	$ 307,678	$ 389,022	$ 322,258	$ 329,671	$ 369,411	$ 321,901	$ 325,369	$ 381,306	$ 337,305	$ 337,178	$ 325,663	4,076,433
23		**Total Other Power Maintenance**	**39.25%**	**$ 335,784**	**$ 326,173**	**$ 404,262**	**$ 551,304**	**$ 389,857**	**$ 444,157**	**$ 353,668**	**$ 366,379**	**$ 408,574**	**$ 356,143**	**$ 375,086**	**$ 427,549**	**$ 393,496**	**$ 389,173**	**$ 379,540**	**$ 4,834,926**
	Other Power Supply																		
24	556	System Control & Load Dispatch [2]	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
25	557	Other Expenditures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	-
26		**Total Other Power Supply**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
27	**Totals**		**100.00%**	**$ 969,075**	**$ 945,493**	**$ 1,113,331**	**$ 1,213,580**	**$ 987,119**	**$ 1,104,603**	**$ 942,430**	**$ 977,743**	**$ 1,060,310**	**$ 982,246**	**$ 990,011**	**$ 1,088,414**	**$ 1,001,840**	**$ 971,619**	**$ 997,500**	**$ 12,317,415**

Notes:

This schedule contains estimates for the period of October 1, 2020 through December 31, 2020, referred to as the "Update Period." As discussed by Southwestern Public Service Company ("SPS") witness William A. Grant, SPS will file actual costs for the Update Period, including an updated version of this schedule, no later than the 45th day after the date of the initial filing of this rate case, as required by PURA § 36.112.

Costs not directly assigned to a plant were allocated on the basis of directly assigned plant costs in each FERC account to total directly assigned costs in each FERC account.

Utility Share $ and % not applicable because SPS does not jointly own any generation facilities.

[1] A portion of Miscellaneous Plant expenses were not directly assignable to the plants.

[2] System Control & Load Dispatch expenses were not directly assignable to the plants.

(3) This column represents the total amounts for the period between January 1, 2020 and December 31, 2020 also known as the updated test year.

Southwestern Public Service Company

Other (Diesel) - Other Plant O&M Summary

Plant Name: Sagamore

Line No.	FERC Account	Description of Account	Percent Total	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Estimated October 2020	Estimated November 2020	Estimated December 2020	Updated Test Year Totals[3]
	Steam Power Operation																		
1	500	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2	502	Steam Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3	505	Electric Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
4	506	Miscellaneous	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
5	507	Rent	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
6	509	Allowances	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
7		**Total Steam Power Operations**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Steam Power Maintenance																		
8	510	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
9	511	Structures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
10	512	Boilers	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
11	513	Electric Plant	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
12	514	Miscellaneous Plant	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
13		**Total Steam Power Maintenance**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Other Power Operation																		
14	546	Supervision & Engineering	-11.74%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 32,150	$ -	$ -	$ -	$ 32,150
15	548	Generation Expense	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
16	549	Miscellaneous	109.53%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ (300,000)	(300,000)
17	550	Rents	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
18		**Total Other Power Operation**	**97.79%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 32,150**	**$ -**	**$ -**	**$ (300,000)**	**$ (267,850)**
	Other Power Maintenance																		
19	551	Supervision & Engineering	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
20	552	Structures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
21	553	Electric Plant	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
22	554	Miscellaneous Plant [1]	2.21%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ (6,053)	(6,053)
23		**Total Other Power Maintenance**	**2.21%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ (6,053)**	**$ (6,053)**
	Other Power Supply																		
24	556	System Control & Load Dispatch [2]	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
25	557	Other Expenditures	0.00%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
26		**Total Other Power Supply**	**0.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
27	**Totals**		**100.00%**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 32,150**	**$ -**	**$ -**	**$ (306,053)**	**$ (273,903)**

Notes: This schedule contains estimates for the period of October 1, 2020 through December 31, 2020, referred to as the "Update Period." As discussed by Southwestern Public Service Company ("SPS") witness William A. Grant, SPS will file actual costs for the Update Period, including an updated version of this schedule, no later than the 45th day after the date of the initial filing of this rate case, as required by PURA § 36.112.

Costs not directly assigned to a plant were allocated on the basis of directly assigned plant costs in each FERC account to total directly assigned costs in each FERC account.

Utility Share $ and % not applicable because SPS does not jointly own any generation facilities.

[1] A portion of Miscellaneous Plant expenses were not directly assignable to the plants.

[2] System Control & Load Dispatch expenses were not directly assignable to the plants.

(3) This column represents the total amounts for the period between January 1, 2020 and December 31, 2020 also known as the updated test year.

Southwestern Public Service Company

Summary of Test Year Production O&M Expenses

Line No.	FERC Account	Description of Account	Percent Total	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Estimated October 2020	Estimated November 2020	Estimated December 2020	Updated Test Year Totals[1]
	Steam Power Operation																		
1	500	Supervision & Engineering	4.08%	$ 322,021	$ 235,160	$ 85,236	$ 292,033	$ 288,337	$ 334,281	$ 277,044	$ 273,921	$ 274,281	$ 406,677	$ 293,077	$ 329,160	$ 323,862	$ 303,407	$ 478,502	$ 3,874,581
2	502	Steam Expense	11.54%	$ 858,255	$ 946,443	$ 969,288	$ 868,900	$ 897,887	$ 908,023	$ 1,026,081	$ 767,645	$ 969,280	$ 1,043,687	$ 1,053,103	$ 902,552	$ 826,959	$ 841,164	$ 863,901	10,969,182
3	505	Electric Expense	9.33%	$ 670,713	$ 847,646	$ 961,502	$ 702,266	$ 655,253	$ 773,957	$ 738,097	$ 686,257	$ 689,824	$ 846,689	$ 823,921	$ 806,647	$ 723,304	$ 771,813	$ 651,775	8,869,803
4	506	Miscellaneous	15.35%	$ 1,181,969	$ 890,797	$ 916,998	$ 1,245,653	$ 1,081,039	$ 1,175,585	$ 838,364	$ 991,631	$ 1,179,614	$ 1,294,222	$ 746,056	$ 1,165,136	$ 1,593,810	$ 1,481,184	$ 1,796,905	14,589,197
5	507	Rent	4.09%	$ 449,305	$ 451,930	$ 703,696	$ 335,660	$ 288,766	$ 272,831	$ 362,878	$ 399,191	$ 326,017	$ 274,331	$ 311,902	$ 344,217	$ 339,593	$ 316,458	$ 314,443	3,886,287
6	509	Allowances	0.04%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 34,908	$ -	$ -	$ -	$ -	$ -	$ -	34,908
7		**Total Steam Power Operations**	**44.43%**	**$ 3,482,262**	**$ 3,371,977**	**$ 3,636,720**	**$ 3,444,511**	**$ 3,211,283**	**$ 3,464,676**	**$ 3,242,464**	**$ 3,118,645**	**$ 3,473,924**	**$ 3,865,606**	**$ 3,228,060**	**$ 3,547,712**	**$ 3,807,527**	**$ 3,714,025**	**$ 4,105,525**	**$ 42,223,959**
	Steam Power Maintenance																		
8	510	Supervision & Engineering	0.91%	$ 36,689	$ 35,360	$ 22,040	$ 31,707	$ 48,870	$ 97,218	$ 46,288	$ 58,253	$ 40,364	$ 60,088	$ 34,597	$ 60,124	$ 137,251	$ 122,432	$ 124,398	$ 861,588
9	511	Structures	3.79%	$ 720,763	$ 322,360	$ 323,281	$ 313,957	$ 314,207	$ 259,512	$ 287,145	$ 325,621	$ 361,241	$ 393,725	$ 351,768	$ 287,291	$ 261,193	$ 228,349	$ 216,571	3,600,581
10	512	Boilers	13.32%	$ 1,097,417	$ 1,124,096	$ 1,242,769	$ 955,419	$ 858,959	$ 1,721,708	$ 1,077,675	$ 1,103,048	$ 707,814	$ 688,939	$ 757,540	$ 1,257,956	$ 1,160,656	$ 1,065,212	$ 1,301,663	12,656,587
11	513	Electric Plant	7.97%	$ 948,576	$ 995,612	$ 1,029,710	$ 443,302	$ 708,848	$ 959,028	$ 798,223	$ 887,673	$ 583,479	$ 151,917	$ 448,960	$ 414,140	$ 581,831	$ 795,505	$ 797,129	7,570,035
12	514	Miscellaneous Plant	9.17%	$ 1,092,663	$ 907,917	$ 824,485	$ 749,554	$ 1,018,253	$ 924,529	$ 906,429	$ 618,601	$ 677,187	$ 837,309	$ 739,817	$ 623,813	$ 574,844	$ 517,568	$ 530,396	8,718,299
13		**Total Steam Power Maintenance**	**35.15%**	**$ 3,896,108**	**$ 3,385,345**	**$ 3,442,285**	**$ 2,493,939**	**$ 2,949,136**	**$ 3,961,995**	**$ 3,115,760**	**$ 2,993,196**	**$ 2,370,085**	**$ 2,131,977**	**$ 2,332,681**	**$ 2,643,324**	**$ 2,715,775**	**$ 2,729,065**	**$ 2,970,158**	**$ 33,407,091**
	Other Power Operation																		
14	546	Supervision & Engineering	0.55%	$ 47,985	$ 39,912	$ 18,747	$ 29,704	$ 46,371	$ 22,371	$ 30,587	$ 33,130	$ 31,936	$ 63,060	$ 41,750	$ 64,689	$ 39,869	$ 34,788	$ 80,461	$ 518,716
15	548	Generation Expense	0.41%	$ 18,561	$ 19,006	$ 22,293	$ 21,364	$ 19,567	$ 21,537	$ 20,771	$ 15,550	$ 27,077	$ 33,004	$ 29,880	$ 28,892	$ 56,442	$ 55,485	$ 56,963	386,532
16	549	Miscellaneous	5.22%	$ 366,523	$ 341,739	$ 443,579	$ 443,496	$ 368,447	$ 472,193	$ 456,026	$ 312,667	$ 449,200	$ 402,398	$ 394,774	$ 453,113	$ 393,942	$ 373,114	$ 444,521	4,963,891
17	550	Rents	2.41%	$ 226,492	$ 233,472	$ 263,559	$ 201,477	$ 194,453	$ 185,657	$ 193,734	$ 196,386	$ 189,048	$ 182,584	$ 188,325	$ 192,850	$ 188,478	$ 188,652	$ 188,653	2,290,297
18		**Total Other Power Operation**	**8.59%**	**$ 659,560**	**$ 634,129**	**$ 748,179**	**$ 696,040**	**$ 628,839**	**$ 701,757**	**$ 701,119**	**$ 557,734**	**$ 697,261**	**$ 681,046**	**$ 654,729**	**$ 739,544**	**$ 678,731**	**$ 652,039**	**$ 770,598**	**$ 8,159,436**
	Other Power Maintenance																		
19	551	Supervision & Engineering	0.52%	$ 43,799	$ 34,260	$ 39,901	$ 16,366	$ 55,015	$ 55,135	$ 31,410	$ 31,741	$ 39,163	$ 34,242	$ 32,522	$ 46,127	$ 52,743	$ 48,542	$ 49,143	$ 492,148
20	552	Structures	0.22%	$ 15,012	$ 43,332	$ 92,020	$ 23,114	$ 3,940	$ 11,854	$ 6,930	$ 10,723	$ 33,843	$ 20,128	$ 24,856	$ 28,317	$ 15,468	$ 15,466	$ 12,808	207,447
21	553	Electric Plant	2.68%	$ 82,992	$ 153,702	$ 90,363	$ 262,497	$ 89,843	$ 69,516	$ 78,126	$ 91,461	$ 88,302	$ 144,141	$ 107,299	$ 82,296	$ 618,100	$ 568,624	$ 346,132	2,546,336
22	554	Miscellaneous Plant	4.29%	$ 334,557	$ 319,634	$ 410,020	$ 329,670	$ 307,680	$ 389,022	$ 324,106	$ 328,944	$ 369,416	$ 322,255	$ 326,697	$ 381,887	$ 337,305	$ 337,178	$ 319,609	4,073,769
23		**Total Other Power Maintenance**	**7.70%**	**$ 476,360**	**$ 550,928**	**$ 632,304**	**$ 631,646**	**$ 456,478**	**$ 525,527**	**$ 440,572**	**$ 462,869**	**$ 530,724**	**$ 520,766**	**$ 491,375**	**$ 538,627**	**$ 1,023,616**	**$ 969,809**	**$ 727,692**	**$ 7,319,701**
	Other Power Supply																		
24	556	System Control & Load Dispatch	1.16%	$ 117,983	$ 77,305	$ 146,326	$ 82,825	$ 109,984	$ 112,085	$ 92,690	$ 111,041	$ 86,280	$ 70,836	$ 92,965	$ 82,540	$ 92,871	$ 85,297	$ 84,227	$ 1,103,640
25	557	Other Expenditures	2.97%	$ 27,207	$ 852,746	$ 811,308	$ 788,339	$ 1,215,082	$ 1,407,384	$ 810,906	$ 1,166,088	$ (645,081)	$ (558,221)	$ (1,491,938)	$ (498,227)	$ 199,593	$ 180,998	$ 246,460	2,821,383
26		**Total Other Power Supply**	**4.13%**	**$ 145,190**	**$ 930,051**	**$ 957,635**	**$ 871,164**	**$ 1,325,066**	**$ 1,519,469**	**$ 903,596**	**$ 1,277,129**	**$ (558,801)**	**$ (487,385)**	**$ (1,398,973)**	**$ (415,687)**	**$ 292,464**	**$ 266,294**	**$ 330,687**	**$ 3,925,023**
27	**Totals**		**100.00%**	**$ 8,659,481**	**$ 8,872,429**	**$ 9,417,123**	**$ 8,137,301**	**$ 8,570,802**	**$ 10,173,424**	**$ 8,403,510**	**$ 8,409,573**	**$ 6,513,192**	**$ 6,712,010**	**$ 5,307,871**	**$ 7,053,519**	**$ 8,518,113**	**$ 8,331,233**	**$ 8,904,660**	**$ 95,035,209**

Notes:

This schedule contains estimates for the period of October 1, 2020 through December 31, 2020, referred to as the "Update Period." As discussed by Southwestern Public Service Company ("SPS") witness William A. Grant, SPS will file actual costs for the Update Period, including an updated version of this schedule, no later than the 45th day after the date of the initial filing of this rate case, as required by PURA § 36.112.

Costs not directly assigned to a plant were allocated on the basis of directly assigned plant costs in each FERC account to total directly assigned costs in each FERC account.

Utility Share $ and % not applicable because SPS does not jointly own any generation facilities.

[1] This column represents the total amounts for the period between January 1, 2020 and December 31, 2020 also known as the updated test year.

Southwestern Public Service Company

Summary of Adjusted Test Year Production O&M Expenses

Line No.	FERC ACCOUNT	DESCRIPTION OF ACCOUNT		PERCENT TOTAL	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20
	STEAM POWER OPERATION											
1	500	Supervision & Engineering		6.42%	$ 322,021	$ 235,160	$ 85,236	$ 292,033	$ 288,337	$ 334,281	$ 277,044	$ 273,921
2	502	Steam Expense		21.10%	858,255	946,443	969,288	868,900	897,887	908,023	1,026,081	767,645
3	505	Electric Expense		17.32%	670,713	847,646	961,502	702,266	655,253	773,957	738,097	686,257
4	506	Miscellaneous		23.92%	1,181,969	890,797	917,693	1,246,028	1,081,039	1,175,585	838,364	991,631
5	507	Rent		8.51%	449,305	451,930	703,696	335,660	288,766	272,831	362,878	399,191
6	509	Allowances		0.07%	-	-	-	-	-	-	-	-
7		Total Steam Power Operations		77.33%	**$ 3,482,262**	**$ 3,371,977**	**$ 3,637,415**	**$ 3,444,886**	**$ 3,211,283**	**$ 3,464,676**	**$ 3,242,464**	**$ 3,118,645**
	STEAM POWER MAINTENANCE											
8	510	Supervision & Engineering		1.08%	$ 36,689	$ 35,360	$ 22,040	$ 31,707	$ 48,870	$ 97,218	$ 46,288	$ 58,253
9	511	Structures		8.02%	720,763	322,360	323,281	313,957	314,207	259,512	287,145	325,621
10	512	Boilers		23.70%	1,097,417	1,124,096	1,242,769	955,419	858,959	1,721,708	1,077,675	1,103,048
11	513	Electric Plant		15.75%	948,576	995,612	1,029,710	443,302	708,848	959,028	798,223	887,673
12	514	Miscellaneous Plant		18.67%	1,092,663	907,917	824,485	749,554	1,018,253	924,529	906,429	618,601
13		Total Steam Power Maintenance		67.22%	**$ 3,896,108**	**$ 3,385,345**	**$ 3,442,285**	**$ 2,493,939**	**$ 2,949,136**	**$ 3,961,995**	**$ 3,115,760**	**$ 2,993,196**
	OTHER POWER OPERATION											
14	546	Supervision & Engineering		0.89%	$ 47,985	$ 39,912	$ 18,747	$ 29,704	$ 46,371	$ 22,371	$ 30,587	$ 33,130
15	548	Generation Expense		0.52%	18,561	19,006	22,293	21,364	19,567	21,537	20,771	15,550
16	549	Miscellaneous		9.23%	366,523	341,739	443,579	443,496	368,447	472,193	456,102	312,667
17	550	Rents		4.64%	226,492	233,472	263,571	201,477	194,453	185,657	193,734	196,386
18		Total Other Power Operation		15.28%	**$ 659,560**	**$ 634,129**	**$ 748,191**	**$ 696,040**	**$ 628,839**	**$ 701,757**	**$ 701,195**	**$ 557,734**
	OTHER POWER MAINTENANCE											
19	551	Supervision & Engineering		0.87%	$ 43,799	$ 34,260	$ 39,901	$ 16,366	$ 55,015	$ 55,135	$ 31,410	$ 31,741
20	552	Structures		0.59%	15,012	43,332	92,020	23,149	3,940	11,854	6,930	10,723
21	553	Electric Plant		2.52%	82,992	153,702	90,363	262,497	89,843	69,516	78,126	91,461
22	554	Miscellaneous Plant[(1)]		7.80%	334,557	319,634	410,020	329,670	307,680	389,022	324,106	328,944
23		Total Other Power Maintenance		11.78%	**$ 476,360**	**$ 550,928**	**$ 632,304**	**$ 631,681**	**$ 456,478**	**$ 525,527**	**$ 440,572**	**$ 462,869**
	OTHER POWER SUPPLY											
24	556	System Control & Load Dispatch[(2)]		2.23%	$ 117,983	$ 77,305	$ 146,326	$ 82,825	$ 109,984	$ 112,085	$ 92,690	$ 111,041
25	557	Other Expenditures		-73.83%	(3,243,643)	(1,867,885)	(2,846,182)	(2,132,153)	(2,154,978)	(1,778,943)	(2,759,072)	(1,911,106)
26		Total Other Power Supply		-71.61%	**$ (3,125,660)**	**$ (1,790,580)**	**$ (2,699,856)**	**$ (2,049,328)**	**$ (2,044,994)**	**$ (1,666,858)**	**$ (2,666,382)**	**$ (1,800,065)**
27	**TOTALS**			**100.00%**	**$ 5,388,630**	**$ 6,151,798**	**$ 5,760,339**	**$ 5,217,218**	**$ 5,200,742**	**$ 6,987,097**	**$ 4,833,608**	**$ 5,332,379**

Notes: Costs not directly assigned to a plant were allocated on the basis of directly assigned plant costs in each Federal Energy Regulatory Commission ("FERC") account to total directly assigned costs in each FERC account.

[(1)]A portion of Miscellaneous Plant expenses were not directly assignable to the plants.

[(2)]System Control & Load Dispatch expenses were not directly assignable to the plants.

[(3)]Adjustments to O&M include accounting adjustments, Commission-ordered adjustments, and pro forma adjustments, as well as an adjustment to reflect O&M for the period between October 1, 2020 through December 31, 2020, also know as the Update Period. Please refer to the Direct Testimony of Stephanie N. Niemi for more information on O&M adjustments.

This schedule contains estimates for the period of October 1, 2020 through December 31, 2020, referred to as the "Update Period." As discussed by Southwestern Public Service Company ("SPS") witness William A. Grant, SPS will file actual costs for the Update Period, including an updated version of this schedule, no later than the 45th day after the date of the initial filing of this rate case, as required by PURA § 36.112.

Southwestern Public Service Company

Summary of Adjusted Test Year Production O&M Expenses

Line No.	FERC ACCOUNT	DESCRIPTION OF ACCOUNT	Jun-20	Jul-20	Aug-20	Sep-20	Test Year Ended September 30, 2020	Adjustments[3]	Adjusted Test Year Total
		STEAM POWER OPERATION							
1	500	Supervision & Engineering	$ 274,281	$ 406,677	$ 293,077	$ 329,160	$ 3,411,227	$ 393,563	$ 3,804,791
2	502	Steam Expense	969,280	1,043,687	1,053,103	902,552	$ 11,211,144	(397,843)	10,813,301
3	505	Electric Expense	689,824	846,689	823,921	806,647	$ 9,202,772	163,096	9,365,868
4	506	Miscellaneous	1,179,614	1,294,222	746,056	1,165,136	$ 12,708,134	1,040,570	13,748,704
5	507	Rent	326,017	274,331	311,902	344,217	$ 4,520,725	(1,170,770)	3,349,954
6	509	Allowances	34,908	-	-	-	$ 34,908	-	34,908
7		Total Steam Power Operations	**$ 3,473,924**	**$ 3,865,606**	**$ 3,228,060**	**$ 3,547,712**	**$ 41,088,910**	**$ 28,617**	**$ 41,117,526**
		STEAM POWER MAINTENANCE							
8	510	Supervision & Engineering	$ 40,364	$ 60,088	$ 34,597	$ 60,124	$ 571,597	$ 69,670	$ 641,268
9	511	Structures	361,241	393,725	351,768	287,291	$ 4,260,871	(583,453)	3,677,418
10	512	Boilers	707,814	688,939	757,540	1,257,956	$ 12,593,339	79,278	12,672,617
11	513	Electric Plant	583,479	151,917	448,960	414,140	$ 8,369,467	(1,112,712)	7,256,756
12	514	Miscellaneous Plant	677,187	837,309	739,817	623,813	$ 9,920,556	(603,297)	9,317,259
13		Total Steam Power Maintenance	**$ 2,370,085**	**$ 2,131,977**	**$ 2,332,681**	**$ 2,643,324**	**$ 35,715,831**	**$ (2,150,514)**	**$ 33,565,317**
		OTHER POWER OPERATION							
14	546	Supervision & Engineering	$ 31,936	$ 63,060	$ 41,750	$ 64,689	$ 470,242	$ 83,283	$ 553,525
15	548	Generation Expense	27,077	33,004	29,880	28,892	$ 277,503	54,747	332,249
16	549	Miscellaneous	449,200	402,398	394,774	453,113	$ 4,904,232	4,304,937	9,209,168
17	550	Rents	200,854	182,584	192,787	192,850	$ 2,464,317	3,231,391	5,695,708
18		Total Other Power Operation	**$ 709,067**	**$ 681,046**	**$ 659,191**	**$ 739,544**	**$ 8,116,293**	**$ 7,674,358**	**$ 15,790,651**
		OTHER POWER MAINTENANCE							
19	551	Supervision & Engineering	$ 39,163	$ 34,242	$ 32,522	$ 46,127	$ 459,679	$ (9,026)	$ 450,653
20	552	Structures	33,843	20,128	24,856	28,317	$ 314,105	(79,598)	234,507
21	553	Electric Plant	88,302	144,141	107,299	82,296	$ 1,340,538	5,088,395	6,428,932
22	554	Miscellaneous Plant[1]	369,416	322,255	326,697	381,887	$ 4,143,888	(95,440)	4,048,448
23		Total Other Power Maintenance	**$ 530,724**	**$ 520,766**	**$ 491,375**	**$ 538,627**	**$ 6,258,210**	**$ 4,904,330**	**$ 11,162,541**
		OTHER POWER SUPPLY							
24	556	System Control & Load Dispatch[2]	$ 86,280	$ 70,836	$ 92,965	$ 82,540	$ 1,182,859	$ (87,302)	$ 1,095,557
25	557	Other Expenditures	(6,563,218)	(4,911,407)	(4,898,415)	(4,162,747)	$ (39,229,748)	40,078,001	848,253
26		Total Other Power Supply	**$ (6,476,938)**	**$ (4,840,571)**	**$ (4,805,450)**	**$ (4,080,207)**	**$ (38,046,889)**	**$ 39,990,699**	**$ 1,943,810**
27	**TOTALS**		**$ 606,862**	**$ 2,358,824**	**$ 1,905,857**	**$ 3,388,999**	**$ 53,132,355**	**$ 50,447,489**	**$ 103,579,844**

Southwestern Public Service Company

Summary of Actual Production O&M Expenses Incurred

Line No.	FERC Acct	Description of Account	Percent Total 2014	2014	Percent Total 2015	2015	Percent Total 2016	2016	Percent Total 2017	2017	Percent Total 2018	2018	Percent Total 2019	2019
	Steam Power Operation													
1	500	Supervision & Engineering	2.34%	$ 2,514,855	1.98%	$ 2,260,170	1.48%	$ 1,540,880	2.40%	$ 2,288,594	2.31%	$ 2,290,065	2.69%	$ 2,689,143
2	502	Steam Expense	8.69%	9,357,899	8.74%	10,002,106	9.93%	10,302,279	10.63%	10,130,024	11.00%	10,894,158	10.26%	$ 10,243,828
3	505	Electric Expense	10.00%	10,768,861	9.36%	10,711,590	9.85%	10,228,429	10.96%	10,446,776	10.30%	10,203,419	9.80%	$ 9,787,894
4	506	Miscellaneous	12.69%	13,664,039	12.84%	14,688,044	13.93%	14,459,565	13.02%	12,407,680	13.50%	13,365,874	12.84%	$ 12,820,127
5	507	Rent	3.51%	3,781,716	3.95%	4,516,830	4.78%	4,965,581	5.97%	5,689,240	6.62%	6,556,090	5.84%	$ 5,834,149
6	509	SO2 Allowances	0.00%	3,944	0.10%	114,191	0.01%	5,337	0.01%	14,055	0.12%	122,490	0.00%	$ -
7		**Total Steam Power Operations**	**37.22%**	**$ 40,091,314**	**36.97%**	**$ 42,292,932**	**39.98%**	**$ 41,502,071**	**43.00%**	**$ 40,976,368**	**43.85%**	**$ 43,432,097**	**41.43%**	**$ 41,375,140**
	Steam Power Maintenance													
8	510	Supervision & Engineering	2.13%	$ 2,295,200	1.88%	$ 2,145,620	1.79%	$ 1,855,859	1.51%	$ 1,441,404	1.43%	$ 1,419,933	0.99%	$ 986,115
9	511	Structures	4.89%	5,270,711	4.83%	5,528,236	5.19%	5,385,087	5.47%	5,212,439	5.52%	5,469,723	4.75%	$ 4,744,308
10	512	Boilers	18.37%	19,783,858	23.27%	26,615,550	16.97%	17,612,248	16.47%	15,694,425	16.36%	16,202,910	14.00%	$ 13,981,017
11	513	Electric Plant	12.11%	13,047,656	9.54%	10,912,911	10.00%	10,379,896	11.31%	10,780,047	10.50%	10,402,049	11.11%	$ 11,092,566
12	514	Miscellaneous Plant	13.30%	14,321,769	13.65%	15,619,207	14.47%	15,017,912	12.09%	11,524,959	11.19%	11,082,554	11.06%	$ 11,041,916
13		**Total Steam Power Maintenance**	**50.81%**	**$ 54,719,194**	**53.17%**	**$ 60,821,524**	**48.41%**	**$ 50,251,003**	**46.85%**	**$ 44,653,275**	**45.01%**	**$ 44,577,168**	**41.90%**	**$ 41,845,922**
	Other Power Operation													
14	546	Supervision & Engineering	0.00%	$ 4,145	0.01%	$ 8,987	0.01%	$ 7,642	0.14%	$ 130,914	0.03%	$ 32,100	0.29%	$ 289,789
15	548	Generation Expense	0.36%	390,336	0.30%	348,379	0.30%	306,390	0.44%	418,920	0.58%	575,073	0.27%	$ 270,697
16	549	Miscellaneous	0.37%	401,797	0.28%	323,942	0.34%	356,205	0.39%	369,686	0.35%	347,620	2.63%	$ 2,631,348
17	550	Rents	0.38%	409,853	0.40%	457,584	0.34%	356,473	0.35%	329,361	0.50%	497,640	1.56%	$ 1,556,936
18		**Total Other Power Operation**	**1.12%**	**$ 1,206,131**	**1.00%**	**$ 1,138,891**	**0.99%**	**$ 1,026,710**	**1.31%**	**$ 1,248,881**	**1.47%**	**$ 1,452,434**	**4.76%**	**$ 4,748,770**
	Other Power Maintenance													
19	551	Supervision & Engineering	0.00%	$ 518	0.00%	$ 909	0.00%	$ 508	0.14%	$ 131,087	0.22%	$ 214,330	0.28%	$ 276,105
20	552	Structures	0.15%	165,694	0.14%	161,509	0.10%	100,691	0.43%	406,896	0.41%	405,846	0.38%	$ 383,900
21	553	Electric Plant	1.55%	1,670,346	1.08%	1,231,210	2.12%	2,204,684	2.66%	2,532,725	1.55%	1,537,201	1.22%	$ 1,215,461
22	554	Miscellaneous Plant	0.02%	22,740	0.05%	52,157	0.01%	13,545	0.12%	118,627	0.25%	248,064	2.42%	$ 2,416,371
23		**Total Other Power Maintenance**	**1.73%**	**$ 1,859,297**	**1.26%**	**$ 1,445,784**	**2.23%**	**$ 2,319,428**	**3.35%**	**$ 3,189,334**	**2.43%**	**$ 2,405,441**	**4.30%**	**$ 4,291,838**
	Other Power Supply													
24	556	System Control & Load Dispatch [1]	1.09%	$ 1,176,245	1.06%	$ 1,207,275	1.08%	$ 1,125,033	1.35%	$ 1,285,668	1.12%	$ 1,108,043	1.23%	$ 1,227,541
25	557	Other Power Oth Exp	8.03%	8,650,282	6.55%	7,487,121	7.29%	7,570,906	4.14%	3,949,676	6.12%	6,065,525	6.39%	$ 6,377,749
26		**Total Other Power Supply**	**9.12%**	**$ 9,826,527**	**7.60%**	**$ 8,694,396**	**8.38%**	**$ 8,695,939**	**5.49%**	**$ 5,235,344**	**7.24%**	**$ 7,173,568**	**7.62%**	**$ 7,605,290**
27	**Totals**		**100.00%**	**$ 107,702,463**	**100.00%**	**$ 114,393,527**	**100.00%**	**$ 103,795,152**	**100.00%**	**$ 95,303,202**	**100.00%**	**$ 99,040,708**	**100.00%**	**$ 99,866,960**

Notes: Costs not directly assigned to a plant were allocated on the basis of directly assigned plant costs in each FERC account to total directly assigned costs in each FERC account.

Utility Share $ and % not applicable because SPS does not jointly own any generation facilities.

[1] System Control & Load Dispatch expenses were not directly assignable to the plants.

Southwestern Public Service Company

Major O&M Projects
January 2020 through December 2020

Line No.	Project Description	Unit		Estimated Cost
1	**Plant Name: Tolk**			
2	Tolk 1: Mini Overhaul	1	$	115,000
3	Tolk 2: Overhaul	2		1,239,017
4	**Total**		**$**	**1,354,017**
5	**Plant Name: Cunningham**			
6	Cunningham 4: Inspection	4	$	587,139
7	**Total**		**$**	**587,139**
8	**Plant Name: Jones**			
9	Jones 3: Inspection	3	$	397,470
10	**Total**		**$**	**397,470**
11	**Grand Total**		**$**	**2,338,626**

Southwestern Public Service Company

Capital Cost Methodology

CAPITAL ASSET ACCOUNTING POLICY

SUBJECT: **Capitalization Policy Overview**

***EFFECTIVE DATE*:** **JUNE 1, 2001** *(Updated 04/11/16)*

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Background

"Each utility shall ***maintain a written*** property units listing for use in accounting for additions and retirements of electric plant and ***apply the listing consistently***." From the Code of Federal Regulations, Subchapter C – Accounts, Federal Power Act, Part 101 – Uniform System of Accounts Prescribed for Public Utilities and Licensees Subject to the Provisions of the Federal Power Act, Electric Plant Instruction 10., Additions and Retirements of Electric Plant, Subpart A, (emphasis added).

With Order 598, the Federal Energy Regulatory Commission (FERC) removed the long contested property unit listing in Part 116 and allowed the utility company to define the units that were appropriate for their business. The main criteria, however, was that the policy be in written form and that it be applied consistently. This change was affective for the gas utility as well and can be found in Part 201, Instruction 10. The FERC eliminated Part 216 as well with Order 598.

Xcel Energy, at the date of its creation, had written policies from NSP and NCE. The NSP policy was applicable to NSP(MN) and NSP(WI). The NCE policy was originally utilized for PSCo. After the merger to create NCE, it was utilized for SPS and Cheyenne Light and Power. After the merger, the opportunity existed to revisit the capitalization policies in order to achieve unity among the five operating companies and to incorporate any new directions set through process design by the Business Area Teams. The responsibility to maintain the corporate policy was assigned to the corporate Controller and in doing so was assigned to the Capital Asset Accounting department (CAA). Ultimately, the business units are responsible for correct application of the policy and how they manage their capital and operating dollars. CAA's involvement is to assure consistent application of the policy and to assist the business unit with correctly identifying where the dollars belong.

Policy

Unlike other policies, this document is the front end to the main source document which contains the capitalization rules for each property description. It describes the strategy behind deciding to make an item capital, explains the format for the property descriptions, outlines the process for making modifications to this policy, and defines how this policy intertwines with the creation of funding projects and work orders. In order to follow the nomenclature of the document and if one is unfamiliar with the property accounting terminology, the "Definition of Terms" section should be reviewed before continuing.

Strategy

The capital versus operating decision is a highly contentious one because of the potential size of the dollars for the corporation as a whole. Even so, it should be based on accounting and financial principles that are basic to the strategic direction of the individual business unit and not on the ongoing or current earnings per share results. Accounting rules define capital where an item lasts longer than a year **and** improves or lengthens the expected useful life of the overall unit from original expectations. Both conditions, not just one, should be met.

Lasting longer than a year is nebulous because some scheduled maintenance outages are not done annually but can be every two to three years. By saying

"lasts longer than a year" implies that replacing anything every scheduled outage is appropriately capital. This is not the intent of the general statement. The statement is referring to items that are not expended or used up in the course of operating the plant. A new Statement of Position (SOP), "Accounting for Certain Costs and Activities Related to Property, Plant, and Equipment", currently in draft, addresses the issue of major maintenance projects including overhauls and refurbishments as being expense even though some items may last longer than one year. It is easy to determine if an item lasts longer than a year and to exclude those items that are considered routine or planned maintenance, but not as easy to determine if the item improves the expected useful life of the unit.

The process begins with a definition of the capitalization unit and then an approximation of the expected useful period. Anything less than a capitalization unit or not included as a capitalization unit is a minor item. Although the process should not be made more difficult than is necessary, a business unit must choose its capitalization units wisely. The resulting document is in essence a living document in that it is constantly changing. It should be a useable and comprehensive document, but not one that is so in depth as to be impossible to use. For example, a turbine generator unit might have an expected life of 40 years. If the entire generator is the capitalization unit, any subsequent addition must improve or lengthen that time period to be considered capital. If the work maintains expected usefulness, is required to attain expected usefulness, or assures that the original life expectation will be attained, then the work is operating and maintenance (O&M).

However, the turbine generator is a large asset comprised of many parts. The asset could be subdivided further to account for some larger components that may not last the full 40 years but the replacements are not expected to be routine replacements. Either choice of capitalization unit designation is correct. The capitalization unit should not be comprised of items that are expected to be routinely replaced and are usually defined by the manufacturer as such. The expectation of a capital component that will be expended in the course of utilization, such as turbine oil, should not be designated as a capitalization unit. Thus, the choice of the unit is important because large unit size definition will push more dollars to operating during its usefulness, whereas smaller unit definitions will push the dollars to capital.

Therein lies the quandary. To summarize, it is generally recommended that if the subsequent work to be performed on a unit is unusual or not normally expected in the operation of the unit, replacement should be defined as a reconstruction or replacement for capitalization purposes. Conversely, if the work is expected or required in the normal operation of the unit, then the work should be defined as maintenance. Plant and business unit income statements take both operating and capital impacts into the financial analysis to determine the true impact each

plant or business unit contributes to the bottom line. Whereas in the past, just the operating side was managed by the plant or business unit.

This brings the discussion around to the financial side of the determination and the subsequent effects of the capital choice. Obviously, the current period expenses are lowered during the construction because the costs are recorded on the balance sheet. However, the carrying costs associated with the asset must be considered. All but a few capital assets are the basis that states utilize to assess property tax. Even though it is based on a net plant basis, that net plant basis is never allowed to decrease all the way to zero. Therefore, the asset incurs an ongoing property tax expense, a reduction to income.

Another tax consideration is the effect on income taxes. An operating expense is deducted for tax purposes in the year spent. A unit placed in the capital accounts is slowly depreciated as a reduction to taxable income over very long lives for most utility property. Generation, transmission, and distribution reduce the tax burden over 15 to 20 years, whereas general property reduces the tax burden over 5 to 7 years.

Another consideration is that the asset has an expected return on as well as of the cost as defined by the state jurisdictions. If rate cases are filed routinely, this may not be an issue. But, the regulator has the purview to deny a return from the customer in the current rates or to “freeze” rates. Either way, the use of the regulatory reason for defining a unit as a capitalization unit should be done with caution. Regulatory safeguards are not reasons for choosing capitalization units that may not be an appropriate business decision. Capitalizing oil, on subsequent replacement is a prime example because it is expended in the operation of the plant. The asset really should be judged on its revenue producing ability. While this is not always applicable when discussing general property, the judgement is sound for most of the asset decisions.

Property Descriptions

The detailed property descriptions for this policy are numerous and some are quite lengthy. The descriptions have been provided in an electronic format through the intranet, separate from this document. The directory can be found in “Our Company,” “Financial Management,”“ Capital Asset Accounting,” “Capitalization Policy.” Each description may contain what is usually referred to as minor items to the capital unit. These items usually are capitalized on initial installation but are subsequently replaced on maintenance.

Also on the Capitalization Policy page you will find the Minimum Dollar Guideline General Rules. Dollar guidelines are based on material cost for all business units

other than I/T. Dollar guidelines for IT are based on total direct cost before overheads, AFUDC, and other indirects.

The description section lists the common breakdown of a property, some of which may be capitalization units and others minor items. This distinction is not evident in this section, but is made clear in a later one. This list is not intended to be all encompassing but to cover the major components of the description. The next section, “Other Costs Included”, lists non-material or non-direct costs that are typically associated with a capital project. Again it is not expected to cover every instance and conversely may include items that are not always charged to the project. For instance, construction overheads are a common listing. These may not be added if the project is of short duration, say less than 30 days. Legal fees are never listed, but may be an overhead to the capital project if licensing is involved.

The main section for any description is the “Capital Installation and Retirement” section. This section has three subsections. The first is for construction of a unit that did not previously exist and as such, no removal or retirement is mentioned. The second subsection is for the retirement without replacement of a unit. The third section is for the reconstruction work. The work of replacing a unit already in-service with another capitalization unit of the same functionality. This last section assumes that there is a retirement and an installation occurring.

This entire section needs to be as detail as possible, so that there is not confusion around the meaning. For instance, “replace a section of pipe” could mean many different things, anywhere from several inches to feet to a whole run. Thus, section would need to be defined. Words like “complete set, complete row, in its entirety, greater than 200 horsepower, 500 feet, etc” help delineate the meaning.

The “Maintenance” section is as important as the previous as it defines when the work is routine and expensed in the current year. Again, this section should be as detail as possible to eliminate as much doubt as possible. Typical verbs in this section are “rebuild, replace, repair, overhaul, inspect, study, etc.”

The remaining sections offer additional information that assists the Capital Asset Accounting department in recording, tracking, and eventually retiring the asset. The retirement pricing method is usually either “specific”, “curve”, “FIFO”, or “amortization”. These terms are describing the method used to remove the asset. The following is a brief overview of what these terms mean:

- **Specific** – The retirement is linked to the actual installation cost.
- **Curve** – Iowa Curves (industry standard life curves) are used to predict the age and associated installation cost for the retirement.

- **FIFO** – Is the "first in, first out" method of retiring the oldest property no matter what the actual installation date was.
- **Amortization** – No retirement is estimated with the cessation of use for an asset and a retirement is booked when both the book and tax depreciation is complete.

Future Modifications

Usually the process to make future modifications to a policy are not included in the policy, but the process surrounding the choice to make modifications is specific in this case and thus included. The general rule is that the modifications are made on a going forward basis and are not done because an entity is faced, within the current period, with an adverse income statement impact. In other words, changing the policy is unethical in order to shift operating expense to capital because earnings or bonuses are not what were expected.

However, business does change and subdividing a current capitalization unit is appropriate if done when not faced with an urgent income statement fix. New units or categories are added all the time and the line between one property unit may blur with another. These are reasons for change. The change is coordinated by Capital Asset Accounting to assure that the changes are inline with accounting rules. But the majority of the analysis is done by the business unit personnel. The actual implementation is tied to the next budget cycle and projects that are significantly underway when the policy changes follow the current or former policy. Projects in the planning or engineering phase are adapted to the new policy.

There may be gray area in the current policy and deciding on a modification to unit definitions can be a significant undertaking. Small changes to clarify the meaning can occur throughout the application and new items can be added at any time. Most gray area centers around the intent written into the description as it applies to the current project. If the application or intent is unclear, contact Capital Asset Accounting for assistance and interpretation. Internal use software, almost always, needs interpretation of how the current project should be dealt with within the description. The policy is not changed because there is gray area in applying the policy, it is changed when the business application of the policy changes, such as dollar guidelines. (Because of the complexity of the subject, internal use software is a policy in the more formal definition, but the concept is still the same.)

Accounting

Although this policy does not deal with the detail accounting surrounding a construction project, there are several policy items that need to be addressed. These topics are the

forecasting, investigative work, specific tracking requirements, capitalization of minor items, and responsibilities.

Forecasting

For accounting purposes, a project begins with the budgeting or forecasting of a project in the general ledger system. The process may involve entering the project into a planning system specific for a business unit that is directly linked with the general ledger. For the sake of this discussion, the term forecasting will be used to refer to either the budgeting or the forecasting process. Refer to the Definition of Terms section for a distinction in these terms.

Before the project is accepted into the capital budget or forecast, the project is validated for capital appropriateness according to the Capitalization Policy. The validation is done by CAA for all projects before a work order or funding project is finalized in the general ledger system, SAP This is a check to assure that the project meets the capitalization rules. Many times this is done systematically by a communication link between the general ledger and the fixed asset system. The process of validating the funding projects prior to completion of the budget or any subsequent release of a forecast assures that the information provided for plant related expense forecasting is consistent with the Capitalization Policy. It also assures that the information being presented to the Board of Directors on capital budget is just that. Approval by the Board of a project thought to be capital but subsequently adjusted to be operating does not make the operating costs capital. It is the responsibility of the business unit financial areas to assure that the Capitalization Policy is being closely adhered to in the forecasting process.

A work order is necessary in order for actual charges to begin accumulating construction charges in work in progress. The work order is requested through the general ledger system and is available for use once the fixed asset system establishes the work order with its header information. Header information includes such things as the assignment of the ultimate account and the appropriate overheads. If a project, once validated, is for the future and actual costs will not be accumulated for a period of time, then the funding project is not assigned a work order.

Investigative Work

There are instances where it is uncertain if a capital project is necessary. Analysis or investigation must be done to determine if the work is necessary. This investigative work is operating until the point that a capital job is deemed necessary. Costs occurring after this trigger point may qualify for capital treatment, but all costs prior may not. The capital work begins when the decision to do a project is made and the necessary approvals have been obtained. The

new SOP draft clearly identifies phases to a capital project and the investigative work is included in what the document defines as the "Preliminary Stage". The table below outlines the four phases. The term "property, plant, and equipment" is referenced by the acronym "PP&E".

	Preliminary Stage	**Pre-acquisition Stage**	**Acquisition or Construction Stage**	**In-service Stage**
Time line	Prior to time when acquisition of specific PP&E becomes probable.	Acquisition of specific PP&E is probable but has not yet occurred.	Acquisition has occurred or construction has commenced but PP&E is not yet substantially complete and ready for its intended use.	Subsequent to when PP&E is substantially complete and ready for its intended use.
Sample Activities	Consideration of alternatives, feasibility studies, activities occurring prior to decision to select specific PP&E	Surveying, zoning, engineering studies, design layouts, traffic studies (these all may also occur in preliminary stage)	Acquisition, construction, or installation of PP&E; engineering work, design work	Replacements, additions to existing PP&E, repairs and maintenance
Accounting for costs directly identifiable with specific PP&E	Expense	Capitalize certain costs directly related this stage	Capitalize certain costs directly related to this stage	Capitalize replacements and additions; expense repairs and maintenance

The type of work that fits this category are typically called inspections (prior to construction work), studies, investigations, testing (prior to construction or after completion of construction where the project has been turned over from the construction manager to the operations manager), upgrades (not directly associated with any capitalization units), or any routine work that would typically be associated with maintenance.

Licensing, certificate of need work, permitting, etc, usually occur after management decisions have been given for a project. However, there are projects where the pre-construction work is anticipated to occur over a very long period and the management decision is deferred until the project has passed certain hurdles. In this case the costs are operating and could be reversed to capital if a capital project results. This is most often seen in nuclear re-licensing projects.

In the forecasting process, studies or investigative work are operating but one could budget capital work that is expected. If a project is forecast to occur as a result and subsequently the investigative work does not produce the expected capital work but does produce necessary operating work, the operating costs cannot be done under the capital project just because it was forecast that way. The capital project is underrun and operating is overrun in this example.

Special Tracking Requirements

Many forecasted projects may span multiple FERC accounts and thus be given multiple work orders. The projects may use one funding project number under certain circumstances. It is easier to discuss the circumstances where a separate funding project may be required. The following are the general rules:

- **Distinct tax recovery**, such as street lighting uses a 7 year recovery and distribution uses a 20 year recovery.
- **Tax deductibility versus tax depreciable**, certain book capital items for repair in generating plants can qualify for tax deduction rather than a 15 to 20 tax depreciation.
- **Special rate treatment**, gas surcharge expansion areas need to be segregated from other areas rather than just a state jurisdictional separation.
- **Differing book and tax treatment**, such as saver switches and tax capitalized leases.
- **Distinct book depreciation recovery**, generating sites or units must be forecast separately.
- **Business Unit need for segregated information**, business unit need to track a specific asset or project.

Circumstances where one funding project number may be used to simplify the forecasting process are as follows:

- **Centralized project tracking**, such as a business unit that undertakes a project that affects all its generating sites in a region may budget one project but has, up front, determined an allocation to all the effected generating sites.
- **Internal Use Software for multiple entities**, these projects are tracked at the Service Company level with predetermined allocations that spread the costs to the associated legal entities. See “Capital Asset Accounting Policy: Service Company Assets”.

Capitalizing Minor Items

As stated above, if the item being installed is a capitalization unit, it can be capitalized along with its associated costs. The usual associated costs are direct labor and various overheads. But sometimes the associated costs are items that fall below the capitalization unit criteria. For example, on installation of a new turbine, the turbine oil that is first added to the unit is capitalized. All subsequent oil changes are maintenance. The minor item can be capitalized with an associated unit if it is ***directly*** linked to the capital unit. For example, transmission fluid is not capitalized if a new air conditioning unit is added to a vehicle.

The existence of a defined capital project or capitalization unit within a larger scope of work does not give license to set costs that are outside the scope of the project to capital. For example, a capital project occurring during a plant outage should not have all the costs for that outage to capital. Items that are normally charged to operating and maintenance should continue to be charged as such. The labor and materials charged to capital actually become the exception rather than the rule. An example, replacing a single run of pipe (which meets capitalization policy rules) does not then give license to replace fittings and hangers along separate piping system sections that are not being replaced but are connected to the pipe being replaced.

There are times where a minor item is replaced that adds functionality to the capitalization unit that did not exist before and is of such a dollar magnitude that the material cost of the minor item is greater than 30% of the capitalization unit. If **both** these conditions are true, then capitalization may occur. In most cases the 30% portion applies, but the functionality existed before. Thus, the item is expensed. The classic example is with software, where a new module is being added. In this example, the existing software is a payroll system and the new module is a benefits reporting and enrollment package equal to the material cost of the payroll system. Since the functionality did not exist and the cost was greater than 30% of the original material cost, it was capitalized as part of the original payroll system.

Another example where insulators were added to distribution poles already in-service. Since the insulators did not exist on the pole, the addition would satisfy the new functionality rule. But, the material cost of the insulators added to a single pole was not greater than 30% of the material cost of the pole. Thus, the insulators were maintenance. The insulators still would be maintenance if the two conditions were reversed where the cost was greater than 30% but the functionality existed on the pole. However, if insulators were part of the dressed pole at the time it was originally installed, it would have been capitalized as a minor item at that time.

Lastly, there are times that a minor item is of such high cost that the Company decides it would like capitalization treatment. In this case, filings can be made with the associated regulating entities to request a special exception to the Capitalization Policy. This is rare and is not guaranteed. The minor item will be treated as expense until the filing is complete and assurance has been granted for the policy exception. These filings are coordinated by CAA.

Capitalized Emergency Spare Parts

Although this topic is included as a separate property description, it is mentioned here because of the confusion and potential misuse that surrounds this description. Generally, spare parts are the inventory that a plant maintains, usually as recommended by the manufacturer. As these parts are put into use in the facility, the item is either expensed or capitalized at that time depending on the capitalization policy. These items should not be capitalized even if bought as part of the initial stocking that occurs with new facilities. The only spare parts that are capitalized are those that meet all ten criteria that are listed in the definition section. Additionally, the plant manager needs to review the form and indicate approval in an email to CAA by "forwarding" the original email with the attachment. CAA will also sign this form indicating that the part has been verified for designation and the form will be "forwarded" back to the originator for retention. CAA will maintain a copy for auditing purposes. This form is often reviewed by the Internal Revenue Service (IRS) because the rules to capitalize spares for book purposes are the same as those used by the IRS. Intentional misrepresentation to the IRS can lead to penalties and prosecution with potential jail time for company officials.

Responsibilities

- **Capital Asset Accounting:** This department is responsible for the coordination, communication, and auditing to assure that the business unit personnel understand and can appropriately apply the policy. It can offer training on the policy as well as clarification of its application. The department, either through its personnel or its system, is responsible for the validation of capital funding projects and work orders. Once the budgeted or forecasted capital expenditures are entered, CAA is responsible for the calculation of associated plant related expense items such as plant balances, book and tax depreciation, deferred taxes, and other plant related balances.

- **Other Departments:** The other departments are any department that supplies, creates, or reviews the capital expenditures either in forecast mode or in association with actuals. The business unit financial areas or engineering areas are typical sources of information for any new additions or modifications to the policy. The source departments are responsible to

understand and to adhere to the policy as it is contained on the intranet at all times.

- **Internal Auditing:** Plant and corporate records will be subject to internal and external audits which check compliance with corporate accounting guidelines and capitalization criteria.

Definition of Terms

Budget – The budget refers to the once a year forecasting process that determines the official, Board of Directors approved project list for the next calendar year. It includes a forecast of the projects currently in construction or to be constructed in the current year.

Capitalization unit – The smallest unit that must comprise the material component of a project in order for the work to be authorized as a capital project. Anything smaller is a minor item and usually considered maintenance when not directly linked with a capitalization unit.

Depreciation – For book purposes, depreciation is the allocation of the capitalized asset to the income statement over the useful life of the asset. It is known as the "return of" the asset. Generally, the straight line methods are utilized and the useful lives are approved by the various state and Federal commissions. For tax purposes, the depreciation is predetermined by the Tax Code. The method currently is an accelerated method over pre-described time periods.

Capitalized Emergency Spare Parts **–** A part or equipment held in reserve, which is essential to the continued operations of a facility. Its absence when required for use may significantly impact the operational effectiveness of the facility. If you have equipment that qualifies for capitalized emergency spare parts, you must complete the Capitalized Emergency Spare Parts Designation Form and return it to Capital Asset Accounting.

A Capitalized Emergency Spare Part is for **specific** capital equipment, major units of property not minor units. The equipment must meet all of the following conditions in order to be considered a spare part.

- **Necessary to avoid substantial operating time loss caused by emergency shutdown due to particular machine or equipment failure (unit would be offline for an extended period of time without this spare)**
- **Failure without a ready replacement would cause a substantial shutdown or a vital part of the business would suffer from prolonged delays due to shutdown**

- **Directly related to the particular machinery or piece of equipment it serves**
- **Life expectancy of eight (8) years or more (from purchase to disposal), or replacement of equipment due to condition based criteria**
- **Unit material cost of at least $50,000**
- **Located at or near the site or it can be delivered quickly to the site**
- **Equipment is a capital unit of property by itself**
- **Not subject to normal periodic replacement, which infers a minor unit of property (i.e. oil, filters, or pulverizer balls)**
- **Must be special ordered to unit specifications from the manufacturer**
- **Not acquired in quantity (generally only one on hand for each piece of machinery or equipment)**

Expected Useful Life – Period of time over which an item of PP&E is expected to provide economic benefits to an entity. In the determination of expected useful life, it is presumed that an entity will perform normal, ongoing or periodic maintenance activities on that PP&E.

Forecast – The forecast is any changes to capital expenditures that is done after the budget process is complete. It may include more years into the future than the budget. Once approved, any changes to projects are considered to be a forecast and usually are compared to the approved budget.

Funding Project – The 35 character name that is assigned to each project that is to be forecast. The name has some intelligence to it, such as for generation, it must be evident to which generating site the funding project relates.

Minimum Dollar Guideline – Dollar guidelines are based on material cost for all business units other than I/T. Dollar guidelines for IT are based on total direct cost before overheads, AFUDC, and other indirects. There are two rules underlying the basic capitalization test, the material unit must be a capitalization unit and the direct costs must be equal to or greater than the minimum dollar guideline. The amounts are determined by the financial areas within a business unit and may cause an item that qualifies as a capitalization unit to be operating or maintenance because it is small in dollar value.

Minor Item – Any item that does not qualify for capitalization and generally is a unit smaller than a capitalization unit. A minor item is usually considered maintenance when not directly linked with a capitalization unit. There are some instances where capitalization is allowed when not directly linked to a capitalization unit and these are discussed above.

Net plant – The original cost of the asset less its current balance in accumulated depreciation. Represents the amount remaining to be recovered in future depreciation.

Original Construction – The installation of a capital unit where the unit offers functionality to the business for the first time or offers new functionality in an existing location. A simple example is the construction of a new generating facility.

O&M – Operating and maintenance is normal, planned, expected, or routine work performed on an item to keep it operating efficiently and is necessary in order to achieve expected useful life.

Planned Major Maintenance Activities – Also referred to as "overhauls," "turnarounds," and "refurbishments." These and other routine activities that an entity considers necessary to perform on a recurring basis to maintain PP&E in operating condition. Examples include shutting down a generating unit at regular intervals to overhaul the equipment, or taking an airplane engine out of service at regular intervals to perform an overhaul. These functions are usually expense except for the portion directly associated with a capitalization unit.

Plant Related Expense Forecasting – The calculation of the associated costs that occur as a result of a construction expenditure forecast and includes construction work in progress balances, plant balances, annual plant activity, accumulated depreciation, depreciation expense, removal cost, salvage, tax depreciation, tax expense, other special tax deductions, gains and losses, accumulated deferred tax balances, annual deferred taxes, and investment tax credit.

Property unit – One or several capitalization units. This term is analogous to a system or functionality. An example of a property unit that is comprised of several capitalization units is a substation. A one-to-one relationship exists for conductor.

Rate Base – The basis upon which a regulated utility earns its rate of return for its invested capital. For the purpose of this policy, it consists of plant in-service less accumulated book depreciation less accumulated deferred taxes. The rate of return on the asset is known as the "return on" the asset.

Rebuild – To take an existing unit or item and replace or retool a majority of the unit. This is capital only when the unit being rebuilt is a capitalization unit.

Reconstruction / Replacement – The replacement of a unit of property that was previous installed such that the new unit replaces the established functionality of the replaced unit to either the same intent or some modification of the current intent. For example, replacing a distribution pole in an existing line or rewinding a power transformer in an existing substation to a higher capacity.

Repair – To fix a unit or a part of a unit that is no longer functioning properly. This is usually maintenance unless a capitalization unit is being replaced, then that portion may be capital.

Retirement unit – Equal to or a sum of several capitalization units. It is the lowest level that is maintained once the property is placed in-service and utilized by CAA to do retirement pricing.

References

Capital Asset Policy, Xcel Energy Intranet Site, Policies & Procedures, Corporate Policies, Accounting & Financial Policies, approved by Wayne Brunetti and Jim McIntyre on October 2, 2000. http://xpressnet/CorpP&P/2/22.asp

Code of Federal Regulations, Title 18 – Conservation of Power and Water Resources, Subchapter C – Accounts, Federal Power Act, Part 101 – Uniform System of Accounts Prescribed for Public Utilities and Licensees Subject to the Provisions of the Federal Power Act, Electric Plant Instruction 10 – Additions and Retirements of Electric Plant, Subpart A.

Code of Federal Regulations, Title 18 – Conservation of Power and Water Resources, Subchapter C – Accounts, Federal Power Act, Part 201 – Uniform System of Accounts Prescribed for Natural Gas Companies Subject to the Provisions of the Natural Gas Act, Gas Plant Instruction 10 – Additions and Retirements of Gas Plant, Subpart A.

FERC Order 598,

Accounting for Certain Costs and Activities Related to Property, Plant, and Equipment, Exposure Draft, Proposed Statement of Position (SOP), Accounting Standards Executive Committee of the American Institute of Certified Public Accountants, April 25, 2001.

Southwestern Public Service Company

Nuclear Capital Costs Projects

Schedule H-5.2a is not applicable to Southwestern Public Service Company ("SPS") because SPS does not own or operate nuclear facilities.

Southwestern Public Service Company

Fossil Production Plant Capital Costs Projects
for the Year Ended September 30, 2020
All Plant Summary

Line No.	Plant Name	Oct 2019 through Sept 2020 Ratebase Additions in Dollars	Oct 2019 through Dec 2020 Ratebase Additions in Dollars
1	Carlsbad	$ -	$ -
2	Celanese	-	-
3	Corporate	-	-
4	Cunningham	14,163,472	18,852,315
5	Denver City	-	-
6	General Manager	-	-
7	Hale	821,994	9,032,293
8	Harrington	11,079,618	13,394,425
9	Jones	2,061,372	21,144,303
10	Maddox	1,086,612	3,821,154
11	Moore County	-	-
12	Nichols	7,032,496	8,019,019
13	Plant X	3,579,190	6,720,168
14	Quay County	21,257	21,257
15	Riverview	-	-
16	Sagamore	77,031	804,267,366
17	Tolk	6,409,886	35,682,609
18	Tucumcari	-	-
19	**Total:**	**$ 46,332,927**	**$ 920,954,909**

Note: This schedule contains estimates for the period of October 1, 2020 through December 31, 2020, referred to as the "Update Period." As discussed by Southwestern Public Service Comany ("SPS") witness William A. Grant, SPS will file actual costs for the Update Period, including an updated version of this schedule, no later than the 45th day after the date of the initial filing of this rate case, as required by PURA § 36.112.

Southwestern Public Service Company

Fossil Production Plant Capital Costs Projects
for the Year Ended September 30, 2020

Plant Name: Cunningham

Line No.	Parent Project Number	Child Project Number	Title and Description	Classification Note 1	Completion Date Actual	October 2019 through September 2020 Ratebase Additions in Dollars	October 2019 through December 2020 Ratebase Additions in Dollars	Benefit Analysis
1	N/A	N/A	Cunningham < $100,000	N/A	N/A	731,243	828,281	
2	A.0001545.129	A.0001545.129.001.002	CHC4C-Rewind Generator	7	Oct-2020	8,151,542	8,151,542	Yes
3	A.0001545.131	A.0001545.131.001.001	CHC2C Rpl Boiler Tube	7	Oct-2020	3,961,586	3,961,586	No
4	A.0001545.130	A.0001545.130	CHC4C-Rpl Combustor Components -23	7	Jan-2021	-	2,419,370	Not Required
5	A.0001545.282	A.0001545.282	CHC34C CT Control Upgrade	7	Feb-2021	-	1,105,310	No
6	A.0001545.500	A.0001545.500	CHC Emergent Fund -Steam prod	7	Dec-2025	-	466,424	Not Required
7	A.0001545.123	A.0001545.123.001.002	CHC3C-Rewind Generator	7	Aug-2019	262,212	262,212	Yes
8	A.0001545.112	A.0001545.112.001.002	CHC4C-UPG CEMSs Foxboro Sys	3	Aug-2020	250,839	250,839	Yes
9	A.0001545.104	A.0001545.104.001.002	CHC2C-Upg CEMs Foxboro Sys	3	Feb-2020	240,737	240,737	Yes
10	A.0001545.269	A.0001545.269	CHC0C-Rpl Fuel Gas Press Cntrl Vlv	7	Dec-2020	-	192,900	Yes
11	A.0001545.500	A.0001545.500.001.023	CHC2C BFP Element	7	Dec-2020	188,158	188,158	No
12	A.0001545.110	A.0001545.110	CHC3C-Upg CEMs Foxboro Sys	3	Oct-2020	-	170,300	Yes
12	A.0001545.085	A.0001545.085	CHC0C-Rpr Water Well Mtr 2019	7	Oct-2020	-	134,165	Yes
12	A.0001545.260	A.0001545.260.001.002	CHC0C-Arc flash relay, 480 buss G	7	Aug-2020	130,066	130,066	Not Required
12	A.0001545.501	A.0001545.501.001.013	CHC3C Generator Bellows Mod	7	Oct-2020	128,034	128,034	No
12	A.0001545.089	A.0001545.089.001.002	CHC0C-Rep Water Wells 2020	7	Sep-2020	119,055	119,055	Yes
13	A.0001545.307	A.0001545.307	CHC4C-Inst Onln Vib Mntr Sys	7	Jan-2021	-	103,336	No
14		CHC Total			**Total:**	**$ 14,163,472**	**$ 18,852,315**	

Note 1: Classification Categories
[1] Immediate Personnel Safety Requirement
[2] Regulatory Safety of Operations Requirement
[3] Regulatory Commitment (Not classified in 2 above)
[4] Plant Efficiency Improvement
[5] New Building
[6] Productivity Improvement
[7] Reliability
[8] Economic
[9] Habitability
[10] Other

Southwestern Public Service Company

Fossil Production Plant Capital Costs Projects
for the Year Ended September 30, 2020

PLANT NAME: Hale County

Line No.	Parent Project Number	Child Project Number	Title and Description	Classification Note 1	Completion Date Actual	Oct 2019 through Sept 2020 Ratebase Additions in Dollars	Oct 2019 through Dec 2020 Ratebase Additions in Dollars	Benefit Analysis
1	N/A	N/A	Hale County < $100,000	N/A	N/A	-	19,976	
2	A.0001577.001	A.0001577.001	SPS Wind -Hale County	5	Dec-2020	-	5,859,984	Yes
3	A.0001577.001	A.0001577.001.001.002	SPS Wind -Hale County	5	Dec-2020		2,330,340	Yes
4	A.0001577.002	A.0001577.002.001.004	Hale- Land Purchase for OH Bus	5	Jul-2020	821,994	821,994	Yes
5		HALE Total			**Total:**	**$ 821,994**	**$ 9,032,293**	

Note 1: Classification Categories
[1] Immediate Personnel Safety Requirement
[2] Regulatory Safety of Operations Requirement
[3] Regulatory Commitment (Not classified in 2 above)
[4] Plant Efficiency Improvement
[5] New Building
[6] Productivity Improvement
[7] Reliability
[8] Economic
[9] Habitability
[10] Other

Southwestern Public Service Company

Fossil Production Plant Capital Costs Projects
for the Year Ended September 30, 2020

Plant Name: Harrington

Line No.	Parent Project Number	Child Project Number	Title and Description	Classification Note 1	Completion Date Actual	October 2019 through September 2020 Ratebase Additions in Dollars	October 2019 through December 2020 Ratebase Additions in Dollars	Benefit Analysis
1	N/A	N/A	Harrington < $100,000	N/A	N/A	1,427,869	1,591,506	
2	A.0001550.421	A.0001550.421.001.001	HAR2C Gen Stator Rewind	7	Aug-2020	2,923,890	2,923,890	Yes
3	A.0001550.346	A.0001550.346.001.002	HAR2C-H2 Rpl Foxboro FBMs	3	Oct-2020	1,814,085	1,814,085	Yes
4	A.0001550.500	A.0001550.500	HAR Emergent Fund -Steam prod	7	Dec-2025	-	1,257,163	Not Required
5	A.0001550.389	A.0001550.389	HAR0C-Basement Winterization	7	Jan-2021	-	711,746	Yes
6	A.0001550.406	A.0001550.406.001.002	HAR2C-Rpl Steam Cooled Spacer Tubes	7	Aug-2020	639,585	639,585	Yes
7	A.0001550.187	A.0001550.187.001.002	HAR2C-H2 Rpl #5 LP FWH	7	Aug-2020	556,164	556,164	Yes
8	A.0001550.186	A.0001550.186.001.002	HAR2C-H2 Rpl #6 LP FWH	7	Aug-2020	555,714	555,714	Yes
9	A.0001550.392	A.0001550.392.001.002	HAR2C-H2 Rpl Burners	7	Aug-2020	522,817	522,817	Yes
10	A.0001550.345	A.0001550.345.001.002	HAR3C-Mill B Major Overhaul	7	Dec-2020	514,400	514,400	Yes
11	A.0001550.472	A.0001550.472.001.002	HAR2C-Rpl EHC Pump Sys.	7	Aug-2020	323,405	323,405	Yes
12	A.0001550.470	A.0001550.470.001.002	HAR2C-Rpl CT Riser Inlet Vlvs	7	Jul-2020	297,460	297,460	Yes
13	A.0001550.471	A.0001550.471.001.002	HAR2C-Rpl CT MCCs on F-Bus	7	Aug-2020	268,787	268,787	Yes
14	A.0001550.235	A.0001550.235.001.002	HAR2C-H2 Rebag Partial 2020	3	Aug-2020	250,224	250,224	Yes
15	A.0001550.500	A.0001550.500.001.079	HAR2C Rpl GSU 230kV Bushings	7	Aug-2020	217,597	217,597	No
16	A.0001550.500	A.0001550.500.001.077	HAR2C Rpl ID Fan Disch Dampers	7	Aug-2020	216,948	216,948	No
17	A.0001550.407	A.0001550.407.001.002	HAR2C-Inst Maint Switch on MV Bkrs	7	Aug-2020	193,366	193,366	No
18	A.0001550.396	A.0001550.396	HAR0C-Install CEMS Compressor	3	Feb-2021	-	182,261	Yes
19	A.0001550.500	A.0001550.500.001.059	HAR2C-Rebuild 2C SBAC Blower	7	Mar-2020	122,375	122,375	No
20	A.0001550.388	A.0001550.388.001.002	HAR2C-Rpl Gen Hydrogen Purity Monit	7	Aug-2020	121,082	121,082	Yes
21	A.0001550.208	A.0001550.208.001.002	HAR3C Partial Rebag	3	Jan-2020	113,851	113,851	Yes
22		HAR Total			**Total:**	**$ 11,079,618**	**$ 13,394,425**	

Note 1: Classification Categories
[1] Immediate Personnel Safety Requirement
[2] Regulatory Safety of Operations Requirement
[3] Regulatory Commitment (Not classified in 2 above)
[4] Plant Efficiency Improvement
[5] New Building
[6] Productivity Improvement
[7] Reliability
[8] Economic
[9] Habitability
[10] Other

Southwestern Public Service Company

Fossil Production Plant Capital Costs Projects
for the Year Ended September 30, 2020

Plant Name: Jones

Line No.	Parent Project Number	Child Project Number	Title and Description	Classification Note 1	Completion Date Actual	October 2019 through September 2020 Ratebase Additions in Dollars	October 2019 through December 2020 Ratebase Additions in Dollars	Benefit Analysis
1	N/A	N/A	Jones < $100,000	N/A	N/A	323,578	714,239	
2	A.0001586.020	A.0001586.020	JON3C Jones 3&4 Hot Gas Path Replac	7	Jan-2021	-	12,075,514	Yes
3	A.0001586.299	A.0001586.299	JON0C-Effluent Water Optimization	7	Feb-2021	-	3,856,180	Yes
4	A.0001586.017	A.0001586.017	JON0C NOX Controls Enhancement	3	Dec-2020	-	1,673,356	No
5	A.0001586.308	A.0001586.308.001.002	JON4C-Exhaust Stack Silencer Baffle	7	Jun-2020	693,252	693,252	Yes
6	A.0001586.501	A.0001586.501	JON Emergent Fund -Other prod	7	Jan-2026	-	659,217	Not Required
7	A.0001586.263	A.0001586.263.001.002	JON0C-Rpl Oil Cir Breaker JK10	7	Feb-2020	412,627	412,627	Yes
8	A.0001586.500	A.0001586.500.001.028	JON0C-Inst In-Line BoostPmp	7	Mar-2020	291,722	291,722	No
9	A.0001586.500	A.0001586.500	JON Emergent Fund -Steam prod	7	Dec-2025	-	282,774	Not Required
10	A.0001586.296	A.0001586.296	JON0C-Replace Section 13 Pivot	7	Jan-2021	-	145,229	No
11	A.0001586.286	A.0001586.286.001.002	JON2C-Inst Onln Vib Mntr Sys	7	Aug-2020	124,799	124,799	No
12	A.0001586.302	A.0001586.302.001.002	JON1C-Rpl #9 Fan Shroud	7	Dec-2020	115,377	115,377	Yes
13	A.0001586.015	A.0001586.015.001.002	JON0C-ICCP Replacement-Jones RR	7	Jan-2020	100,018	100,018	No
14		JON Total			**Total:**	**$ 2,061,372**	**$ 21,144,303**	

Note 1: Classification Categories
[1] Immediate Personnel Safety Requirement
[2] Regulatory Safety of Operations Requirement
[3] Regulatory Commitment (Not classified in 2 above)
[4] Plant Efficiency Improvement
[5] New Building
[6] Productivity Improvement
[7] Reliability
[8] Economic
[9] Habitability
[10] Other

Southwestern Public Service Company

Fossil Production Plant Capital Costs Projects
for the Year Ended September 30, 2020

Plant Name: Maddox

Line No.	Parent Project Number	Child Project Number	Title and Description	Classification Note 1	Completion Date Actual	October 2019 through September 2020 Ratebase Additions in Dollars	October 2019 through December 2020 Ratebase Additions in Dollars	Benefit Analysis
1	N/A	N/A	Maddox < $100,000	N/A	N/A	164,464	199,999	
2	A.0001529.089	A.0001529.089	MAD1C-Rpl SH Term Tubes	7	Dec-2020	-	1,119,851	Yes
3	A.0001529.084	A.0001529.084	MAD1C-Rpl #2 HP FWH	7	Jan-2021	-	649,136	Yes
4	A.0001529.068	A.0001529.068	MAD1C-Upg DCS Opr Stn-19969	7	Jan-2021	-	523,038	Not Required
5	A.0001529.095	A.0001529.095.001.002	MAD0C-Rpl Overhead Crane - NEW	7	Dec-2020	475,677	475,677	Yes
6	A.0001529.082	A.0001529.082.001.002	MAD3C-Rpl U940 Gen Breaker	7	Feb-2020	316,709	316,709	Not Required
7	A.0001529.056	A.0001529.056	MAD1C-Upg CEMs Foxboro Sys	3	Dec-2020	-	225,905	Yes
8	A.0001529.500	A.0001529.500	MAD Emergent Fund -Steam prod	7	Dec-2025	-	181,077	Not Required
9	A.0001529.083	A.0001529.083.001.002	MAD0C-Rpl Waterwells 2020	7	Aug-2020	129,762	129,762	Yes
10		MAD Total			**Total:**	**$ 1,086,612**	**$ 3,821,154**	

Note 1: Classification Categories
[1] Immediate Personnel Safety Requirement
[2] Regulatory Safety of Operations Requirement
[3] Regulatory Commitment (Not classified in 2 above)
[4] Plant Efficiency Improvement
[5] New Building
[6] Productivity Improvement
[7] Reliability
[8] Economic
[9] Habitability
[10] Other

Southwestern Public Service Company

Fossil Production Plant Capital Costs Projects
for the Year Ended September 30, 2020

Plant Name: Nichols

Line No.	Parent Project Number	Child Project Number	Title and Description	Classification Note 1	Completion Date Actual	October 2019 through September 2020 Ratebase Additions in Dollars	October 2019 through December 2020 Ratebase Additions in Dollars	Benefit Analysis
1	N/A	N/A	Nichols < $100,000	N/A	N/A	809,837	1,022,352	
2	A.0001560.094	A.0001560.094.001.002	NIC3C-Rpl CT Structure Ph2	7	Feb-2020	4,232,762	4,232,762	Yes
3	A.0001560.124	A.0001560.124.001.002	NIC3C-Rpl Condenser Inlet Circ Pipe	7	Feb-2020	395,220	395,220	Yes
4	A.0001560.500	A.0001560.500	NIC Emergent Fund -Steam prod	7	Jan-2026	-	342,655	Not Required
5	A.0001560.128	A.0001560.128.001.002	NIC3C-Rpl CW Risers at CT	7	Feb-2020	339,149	339,149	Yes
6	A.0001560.500	A.0001560.500.001.046	NIC1C Rpl L4 Turb Blades	7	Apr-2020	274,216	274,216	No
7	A.0001560.136	A.0001560.136	NIC1C-Rpl U1 Volt Reg	7	Dec-2020	-	271,143	Yes
8	A.0001560.500	A.0001560.500.001.051	NIC0C Rpl Sprinkler Pivot S7	3	Oct-2020	207,605	207,605	No
9	A.0001560.133	A.0001560.133.001.003	NIC3C Rpl FWH Level Transmitters	7	Dec-2019	192,858	192,858	Yes
10	A.0001560.127	A.0001560.127	NIC3C-Rpl Boiler Bldg Elevator	7	Jan-2021	-	160,210	No
11	A.0001560.500	A.0001560.500.001.043	NIC2C Rpl HS Air Comp	7	Aug-2020	126,902	126,902	No
12	A.0001560.500	A.0001560.500.001.049	NIC3C S Circ Wtr Pmp Mtr Rwnd	7	May-2020	119,049	119,049	No
13	A.0001560.131	A.0001560.131.001.002	NIC3C-Rpl MS Vent Valve	7	Mar-2020	118,759	118,759	Yes
14	A.0001560.132	A.0001560.132.001.002	NIC3C-N3 Rpl UPS Inverter	7	Jan-2020	111,655	111,655	Yes
15	A.0001560.500	A.0001560.500.001.040	NIC1C-Rpl Gov Vlv Rexa Drive	7	Oct-2020	104,485	104,485	No
16		NIC Total			**Total:**	**$ 7,032,496**	**$ 8,019,019**	

Note 1: Classification Categories
[1] Immediate Personnel Safety Requirement
[2] Regulatory Safety of Operations Requirement
[3] Regulatory Commitment (Not classified in 2 above)
[4] Plant Efficiency Improvement
[5] New Building
[6] Productivity Improvement
[7] Reliability
[8] Economic
[9] Habitability
[10] Other

Southwestern Public Service Company

Fossil Production Plant Capital Costs Projects
for the Year Ended September 30, 2020

Plant Name: Plant X

Line No.	Parent Project Number	Child Project Number	Title and Description	Classification Note 1	Completion Date Actual	October 2019 through September 2020 Ratebase Additions in Dollars	October 2019 through December 2020 Ratebase Additions in Dollars	Benefit Analysis
1	N/A	N/A	Plant X < $100,000	N/A	N/A	235,231	434,578	
2	A.0001534.500	A.0001534.500.001.024	PLX1-Rpl U1 battery house roof	7	0	2,458,540	2,458,540	No
3	A.0001534.500	A.0001534.500	PLX Emergent Fund -Steam prod	7	Dec-2025	-	1,395,839	Not Required
4	A.0001534.209	A.0001534.209	PLX3C Rpl East Waterwall Tubes	7	Oct-2020	-	827,516	No
5	A.0001534.187	A.0001534.187.001.002	PLX4C-Generator Rewedge	7	Jan-2020	718,361	718,361	Yes
6	A.0001534.204	A.0001534.204	PLX0C-Floating pump w piping for pi	7	Jan-2021	-	718,277	Yes
7	A.0001534.200	A.0001534.200.001.002	PLX4C-X4 East BFP element rebuild	7	Jan-2020	167,057	167,057	Yes
8		PLX Total			**Total:**	**$ 3,579,190**	**$ 6,720,168**	

Note 1: Classification Categories
[1] Immediate Personnel Safety Requirement
[2] Regulatory Safety of Operations Requirement
[3] Regulatory Commitment (Not classified in 2 above)
[4] Plant Efficiency Improvement
[5] New Building
[6] Productivity Improvement
[7] Reliability
[8] Economic
[9] Habitability
[10] Other

Southwestern Public Service Company

Fossil Production Plant Capital Costs Projects
for the Year Ended September 30, 2020

Plant Name: Quay County

Line No.	Parent Project Number	Child Project Number	Title and Description	Classification Note 1	Completion Date Actual	October 2019 through September 2020 Ratebase Additions in Dollars	October 2019 through December 2020 Ratebase Additions in Dollars	Benefit Analysis
1	N/A	N/A	Quay County < $100,000	N/A	N/A	$ 21,257	$ 21,257	
2								
3		QUA Total			**Total:**	**$ 21,257**	**$ 21,257**	

Southwestern Public Service Company

Fossil Production Plant Capital Costs Projects
for the Year Ended September 30, 2020

PLANT NAME: Sagamore

Line No.	Parent Project Number	Child Project Number	Title and Description	Classification Note 1	Completion Date Actual	Oct 2019 through Sept 2020 Ratebase Additions in Dollars	Oct 2019 through Dec 2020 Ratebase Additions in Dollars	Benefit Analysis
1	N/A	N/A	Sagamore < $100,000	N/A	N/A	77,031	77,031	
2	A.0001563.001	A.0001563.001	SPS Wind - Sagamore	5	Dec-2022	-	804,023,366	Yes
3	A.0001563.015	A.0001563.015	Sagamore-Land & Land Rights	5	Mar-2021	-	166,969	Yes
4		SAG Total			**Total:**	**$ 77,031**	**$ 804,267,366**	

Note 1: Classification Categories

[1] Immediate Personnel Safety Requirement
[2] Regulatory Safety of Operations Requirement
[3] Regulatory Commitment (Not classified in 2 above)
[4] Plant Efficiency Improvement
[5] New Building
[6] Productivity Improvement
[7] Reliability
[8] Economic
[9] Habitability
[10] Other

Southwestern Public Service Company

Fossil Production Plant Capital Costs Projects
for the Year Ended September 30, 2020

Plant Name: Tolk

Line No.	Parent Project Number	Child Project Number	Title and Description	Classification Note 1	Completion Date Actual	October 2019 through September 2020 Ratebase Additions in Dollars	October 2019 through December 2020 Ratebase Additions in Dollars	Benefit Analysis
1	N/A	N/A	Tolk < $100,000	N/A	N/A	583,222	704,214	
2	A.0001598.001	A.0001598.001	TOL1C-Synchronous Condenser	7	Jan-2021	-	10,421,155	Yes
3	A.0001598.002	A.0001598.002	TOL2C-Synchronous Condenser	7	Mar-2021	-	9,281,809	Yes
4	A.0001555.300	A.0001555.300	TOL2C-Prch & Install New GSU XFMR	7	Feb-2021	-	3,873,343	No
5	A.0001555.433	A.0001555.433.001.002	TOL1C-Rpl RH Loops	7	Aug-2020	1,516,956	1,516,956	No
6	A.0001555.500	A.0001555.500	TOL Emergent Fund -Steam prod	7	Dec-2025	-	1,363,404	Not Required
7	A.0001555.104	A.0001555.104.001.002	TOL0C-Rpl RR Ties PH 5 of 5	7	Feb-2020	900,495	900,495	Yes
8	A.0001555.221	A.0001555.221.001.002	TOL1C-Rpr Mill D GearBx & Jrnl	7	Mar-2020	799,148	799,148	Yes
9	A.0001555.226	A.0001555.226.001.002	TOL2C-Rpl Mill E Gearbx & Jour	7	Dec-2019	764,420	764,420	Yes
10	A.0001555.500	A.0001555.500.001.038	TOL1C-Rpl Mill C Shaft	7	Feb-2020	722,887	722,887	No
11	A.0001555.258	A.0001555.258	TOL2C-Rbld T2 Mill B Gearbox	7	Mar-2021	-	702,059	Yes
12	A.0001555.379	A.0001555.379	TOL2C-T2 Burners 2020	7	Jan-2021	-	653,178	Yes
13	A.0001555.428	A.0001555.428	TOL2C-Rpl TK32 oil circuit breaker	7	Jan-2021	-	523,090	Yes
14	A.0001555.217	A.0001555.217.001.002	TOL0C-Rail Ballast & Alignmnt	7	Feb-2020	446,278	446,278	Yes
15	A.0001555.224	A.0001555.224	TOL2C-Rpr MillF GearBx & Journ	7	Oct-2020	-	387,424	Yes
16	A.0001555.421	A.0001555.421	TOL1C-Rpl TK02 oil circuit breaker	7	Jan-2021	-	384,001	Yes
17	A.0001555.148	A.0001555.148	TOL0C-Rpl Water Treatment Bldg	7	Oct-2020	-	336,643	Yes
18	A.0001555.413	A.0001555.413.001.002	TOL0C-Rpl TK09 oil circuit breaker	7	Dec-2020	305,101	305,101	Yes
19	A.0001555.194	A.0001555.194	TOL2C-Replace SSC Chain	7	Jan-2021	-	260,408	Yes
20	A.0001555.422	A.0001555.422	TOL1C-Rpl UPS Inverters	7	Dec-2020	-	259,799	Yes
21	A.0001555.429	A.0001555.429	TOL2C-Rpl UPS Inverters	7	Jan-2021	-	220,537	Yes
22	A.0001555.136	A.0001555.136	TOL2C-Rpl Diesel Gen Controls	7	Dec-2020	-	202,564	Yes
23	A.0001555.420	A.0001555.420.001.002	TOL1C-A B xfmr X winding bushings	7	Aug-2020	165,255	165,255	Yes
24	A.0001555.245	A.0001555.245	TOL0C-Rpl Water Well Pmp 2020	7	Jan-2021	-	159,651	Yes
25	A.0001555.588	A.0001555.588	TOL0C- Install Gas Chromatograph	7	Oct-2020	-	122,665	No
26	A.0001555.414	A.0001555.414.001.002	TOL0C-Startup A-B Transformer DGA	7	Oct-2020	104,072	104,072	No
27	A.0001555.299	A.0001555.299.001.002	TOL0C-ICCP Replacement-Tolk	7	Jan-2020	102,052	102,052	No
28		TOL Total			**Total:**	**$ 6,409,886**	**$ 35,682,609**	

Note 1: Classification Categories
[1] Immediate Personnel Safety Requirement
[2] Regulatory Safety of Operations Requirement
[3] Regulatory Commitment (Not classified in 2 above)
[4] Plant Efficiency Improvement
[5] New Building
[6] Productivity Improvement
[7] Reliability
[8] Economic
[9] Habitability
[10] Other

Southwestern Public Service Company

Nuclear Capital Expenditures (Historical, Present, Projected)

Schedule H-5.3a is not applicable to Southwestern Public Service Company ("SPS") because SPS does not own or operate nuclear facilities.

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

						8	9	10	(280,558)	(293)	13		
					Plant Name:	**Carlsbad**		**Unit:**	**5**				
Line No.	**Project Number**	**Project Title**	**Historical Year 5**	**Historical Year 4**	**Historical Year 3**	**Historical Year 2**	**Historical Year 1**	**Present Year 0**	**Projected Year 1**	**Projected Year 2**	**Projected Year 3**	**Total**
1	A.0001520.011	CCT5C-CGT Complete Demo-21293	$ -	$ -	$ -	$ -	$ 198,384	$ -	$ -	$ -	$ -	$ 198,384
2	N/A	Other Capital Projects	-	-	-	-	-	-	-	-	-	-
3		**Totals**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 198,384**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 198,384**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: **Cunningham** **Unit:** **0**

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001545.500	CHC Emergent Fund -Steam prod	$ -	$ -	$ -	$ -	$ 100,504	$ 777,416	$ 1,900,004	$ 700,000	$ 699,996	$ 4,177,920
2	A.0001545.301	CHC0C-Rpl WW Pipeline 9-10	-	-	-	-	-	-	-	-	385,000	$ 385,000
3	A.0001545.068	CHC0C-Rpl Water Well line	-	274,087	-	-	-	-	-	-	-	$ 274,087
4	A.0001545.064	CHC0C-Waterwell Pmp Mtr Rpl	-	272,044	-	-	-	-	-	-	-	$ 272,044
5	A.0001545.302	CHC0C-Rpl WW Pipeline 8-16	-	-	-	-	-	-	257,137	-	-	$ 257,137
6	A.0001545.258	CHC0C-Replace Batteries	-	-	-	-	-	124,843	-	129,669	-	$ 254,512
7	A.0001545.073	CHC0C-Rpl Waterwell Pmp Mtr	-	-	-	208,327	16,913	-	-	-	-	$ 225,240
8	A.0001545.269	CHC0C-Rpl Fuel Gas Press Cntrl Vlv	-	-	-	-	-	204,209	-	-	-	$ 204,209
9	A.0001545.271	CHC0C-Blowdown Line	-	-	-	-	-	-	191,328	-	-	$ 191,328
10	A.0001545.253	CHC0C-Rpl WW Line 14-15-21352	-	-	184,618	(4,873)	-	-	-	-	-	$ 179,745
11	A.0001545.282	CHC34C CT Control Upgrade	-	-	-	-	3,458	170,977	-	-	-	$ 174,435
12	A.0001545.092	CHC0C-Rep Water Wells Mtr 2023	-	-	-	-	-	-	-	-	170,004	$ 170,004
13	A.0001545.091	CHC0C-Rep Water Wells 2022	-	-	-	-	-	-	-	165,000	-	$ 165,000
14	A.0001545.090	CHC0C-Rep Water Wells 2021	-	-	-	-	-	-	160,000	-	-	$ 160,000
15	A.0001545.046	CHC0C-Refurb Plant Bathroom	-	-	-	72,097	80,834	-	-	-	-	$ 152,931
16	A.0001545.085	CHC0C-Rpr Water Well Mtr 2019	-	-	-	-	107,439	39,775	-	-	-	$ 147,214
17	A.0001545.260	CHC0C-Arc flash relay, 480 buss G	-	-	-	-	23,897	105,125	-	-	-	$ 129,022
18	A.0001545.089	CHC0C-Rep Water Wells 2020	-	-	-	-	-	121,775	-	-	-	$ 121,775
19	A.0001545.065	CHC0C-Rpl WW Pump Meters	114,141	-	-	-	-	-	-	-	-	$ 114,141
20	A.0001545.140	CHC0C-Rpl N House Air Comp -24171	-	-	-	-	-	-	-	-	110,004	$ 110,004
												$ -
21	N/a	Other Capital Projects	302,141	97,186	157,839	320,259	52,883	99,873	3,834	53,150	-	$ 1,087,166
												$ -
												$ -
22		**Totals**	**$ 416,282**	**$ 643,318**	**$ 342,457**	**$ 595,810**	**$ 385,929**	**$ 1,643,993**	**$ 2,512,303**	**$ 1,047,819**	**$ 1,365,004**	**$ 8,952,915**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: Cunningham Unit: 1

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	N/A	Other Capital Projects	$ 77,735	$ 101,218	$ 44,408	$ 20,123	$ (6,435)	$ 914	$ -	$ -	$ -	$ 237,963
2		**Totals**	**$ 77,735**	**$ 101,218**	**$ 44,408**	**$ 20,123**	**$ (6,435)**	**$ 914**	**$ -**	**$ -**	**$ -**	**$ 237,963**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: Cunningham **Unit: 2**

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001545.131	CHC2C Rpl Boiler Tube	$ -	$ -	$ -	$ -	$ -	$ 5,139,853	$ -	$ -	$ -	$ 5,139,853
2	A.0001545.500.001.009	CHC2C-HRH Piping Abate&Reins	-	-	-	847,568	-	-	-	-	-	$ 847,568
3	A.0001545.043	CHC2C-Rpl CT Decking	-	-	-	-	-	6,562	743,506	-	-	$ 750,068
4	A.0001545.020	CHC2C-Rpl CT Riser pipe	605,470	-	-	-	-	-	-	-	-	$ 605,470
5	A.0001545.122	CHC2C-Upg DCS Hardware	-	-	118,511	317,453	(14,434)	-	-	-	-	$ 421,531
6	A.0001545.035	CHC2C-Rpl BFP Discharge vlvs	-	-	146,167	209,256	-	-	-	-	-	$ 355,423
7	A.0001545.031	CHC2C-Rpl BFP Fluid Drives	-	-	46,599	267,085	-	-	-	-	-	$ 313,684
8	A.0001545.137	CHC2-Rewedge Gen Stator -24168	-	-	-	-	-	-	-	-	305,000	$ 305,000
9	A.0001545.012	CHC2C-Rpl Econ inlet header	275,054	-	-	-	-	-	-	-	-	$ 275,054
10	A.0001545.104	CHC2C-Upg CEMs Foxboro Sys	-	-	-	-	237,741	6,114	-	-	-	$ 243,855
11	A.0001545.118	CHC2C-E Rbld Turb Cntrl Vlv	-	-	156,087	-	-	-	-	-	-	$ 156,087
12	A.0001545.156	CHC2C-Rpl CT GB & Fans Phase5	151,833	-	-	-	-	-	-	-	-	$ 151,833
13	A.0001545.115	CHC2C-Rpl CT Bus Duct	128,626	-	-	-	-	-	-	-	-	$ 128,626
14	A.0001545.254	CHC2C-Rpl Burner Titls-21235	-	-	-	119,023	-	-	-	-	-	$ 119,023
15	A.0001545.255	CHC2C-Rpl CT Suction Screens-21237	-	-	-	109,515	-	-	-	-	-	$ 109,515
16	A.0001545.138	CHC2C-Upg Fox CPs & Software -23954	-	-	-	-	-	-	-	-	107,000	$ 107,000
17	A.0001545.500	CHC Emergent Fund -Steam prod	-	-	-	-	57,322	329,597	-	-	-	$ 386,919
												$ -
18	N/A	Other Capital Projects	230,222	65,256	21,381	219,889	160,190	127,336	118,050	77,088	-	$ 1,019,411
												$ -
19		**Totals**	**$ 1,391,204**	**$ 65,256**	**$ 488,746**	**$ 2,089,789**	**$ 440,819**	**$ 5,609,462**	**$ 861,556**	**$ 77,088**	**$ 412,000**	**$ 11,435,921**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: **Cunningham CT** **Unit:** **3**

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001639.001	CHC3C-Major-Upg all hot path	$ -	$ 3,796,978	$ 5,288,957	$ -	$ (299,644)	$ -	$ -	$ -	$ -	$ 8,786,291
2	A.0001545.123	CHC3C-Rewind Generator	-	-	-	386,927	5,098,585	200,965	-	-	-	$ 5,686,477
3	A.0001545.124	CHC3C-Rpl Compressor	-	-	-	732,951	1,376,166	(31,523)	-	-	-	$ 2,077,594
4	A.0001545.110	CHC3C-Upg CEMs Foxboro Sys	-	-	-	-	-	173,066	-	-	-	$ 173,066
5	A.0001545.082	CHC3C-Rpl Exhst Baffles	-	-	-	-	-	-	-	222,536	464,929	$ 687,465
6	A.0001545.006	CHC3C-Rpl IGV, CBPV, Moog Act	-	28,811	121,730	-	-	-	-	-	-	$ 150,541
7	A.0001545.121	CHC3C-E Rpl Rw1 Cmprsr Blds	-	-	132,351	-	-	-	-	-	-	$ 132,351
8	A.0001545.282	CHC34C CT Control Upgrade	-	-	-	-	-	935,819	-	-	-	$ 935,819
9	A.0001545.501	CHC Emergent Fund -Other prod	-	-	-	-	15,354	204,781	-	-	-	$ 220,135
												$ -
10	N/A	Other Capital Projects	-	-	177,026	116,656	34,964	83,485	-	52,850	300	$ 465,280
												$ -
11		**Totals**	**$ -**	**$ 3,825,789**	**$ 5,720,064**	**$ 1,236,534**	**$ 6,225,425**	**$ 1,566,593**	**$ -**	**$ 275,386**	**$ 465,229**	**$ 19,315,019**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: **Cunningham CT** **Unit:** **4**

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001545.129	CHC4C-Rewind Generator	$ -	$ -	$ -	$ -	$ -	$ 4,030,556	$ -	$ -	$ -	$ 4,030,556
2	A.0001545.130	CHC4C-Rpl Combustor Components -2	-	-	-	-	1,296	2,615,861	-	-	-	$ 2,617,157
3	A.0001545.112	CHC4C-Upg CEMSs Foxboro Sys	-	-	-	-	-	252,019	-	-	-	$ 252,019
4	A.0001545.111	CHC4C-Rpl Station Batt	-	-	-	-	1,651	81,373	129,000	-	-	$ 212,024
5	A.0001545.307	CHC4C-Inst Onln Vib Mntr Sys	-	-	-	-	-	103,268	-	-	-	$ 103,268
												$ -
6	N/A	Other Capital Projects	-	10,387	(348)	108,694	95,983	12,341	-	52,354	796	$ 280,208
												$ -
7		**Totals**	**$ -**	**$ 10,387**	**$ (348)**	**$ 108,694**	**$ 98,930**	**$ 7,095,419**	**$ 129,000**	**$ 52,354**	**$ 796**	**$ 7,495,232**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: Gaines Unit: 0

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001621.002	GMS0C-Gaines Cty Land Acq	$ 4,058,052	$ 1,004	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 4,059,056
2	A.0001621.004	GCT0C-Interconnect	$ -	$ -	$ -	$ -	$ -	$ 2,128,127	$ -	$ -	$ -	$ 2,128,127
												$ -
3	N/A	Other Capital Projects	2,101,854	(4,204,655)	806,681	(3,500)	(35,644)	134	-	-	-	$ (1,335,130)
4		**Totals**	**$ 6,159,906**	**$ (4,203,651)**	**$ 806,681**	**$ (3,500)**	**$ (35,644)**	**$ 2,128,262**	**$ -**	**$ -**	**$ -**	**$ 4,852,053**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: **Gen Mgr, TX/NM and Corporate** **Unit:** **0**

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0003000.689.001.001	GMS0C-TX Lab Instruments	$ -	$ 96,168	$ 120,151	$ 216,508	$ -	$ -	$ -	$ -	$ -	$ 432,827
2	A.0003000.691.001.001	GMS0C-TRaC Tools	-	63,316	88,403	48,856	-	-	-	-	-	$ 200,574
3	A.0006056.051	GMS0C-Pur Vehicles SPS 2015	165,581	8,387	-	-	-	-	-	-	-	$ 173,968
4	A.0003000.692.001.001	GMS0C-MMR Instruments	-	11,121	73,720	36,750	-	-	-	-	-	$ 121,590
												$ -
5	N/A	Other Capital Projects	305,426	199,937	83,098	71,492	-	-	-	-	-	$ 659,953
6		**Totals**	**$ 471,006**	**$ 378,928**	**$ 365,372**	**$ 373,606**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 1,588,912**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: **Hale** **Unit:**

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001577.001	SPS Wind -Hale County	$ -	$ -	$ 7,586,505	$ 543,005,980	$ 96,446,982	$ 389,838	$ -	$ -	$ -	$ 647,429,305
2	A.0001577.005	Hale-Sub Serving Generation	-	-	-	13,462,825	-	-	-	-	-	$ 13,462,825
3	A.0001577.004	Hale-Xmsn Serving Generation	-	-	-	10,940,790	-	-	-	-	-	$ 10,940,790
4	A.0001577.502	HLW-Gearbox Replace	-	-	-	-	-	-	225,001	600,000	900,000	$ 1,725,001
5	A.0001577.002	Hale-Land & Land Rights	-	-	-	118,061	(63,108)	821,994	-	-	-	$ 876,947
6	A.0001577.503	HLW-Generator Replace	-	-	-	-	-	-	129,997	320,004	320,004	$ 770,005
7	A.0001577.504	HLW-Transformer Replace	-	-	-	-	-	-	-	200,004	300,000	$ 500,004
8	A.0001577.501	HALE Emergent Fund-Other Prod	-	-	-	-	-	29,712	177,384	139,596	116,292	$ 462,984
9	A.0001577.506	HLW-2021 PCMM	-	-	-	-	-	-	300,000	-	-	$ 300,000
10	A.0001577.016	HLW0 OTS - Security Monitor and Log	-	-	-	-	-	55,376	48,000	-	-	$ 103,376
												$ -
11	N/A	Other Capital Projects	-	-	-	-	69,547	75,925	-	-	-	$ 145,472
												$ -
12		**Totals**	**$ -**	**$ -**	**$ 7,586,505**	**$ 567,527,656**	**$ 96,453,421**	**$ 1,372,845**	**$ 880,382**	**$ 1,259,604**	**$ 1,636,296**	**$ 676,716,709**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: Harrington **Unit: 0**

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001550.419	HAR0C-NAQCC	$ -	$ -	$ -	$ -	$ -	$ 61,972	$ -	$ -	$ 25,844,672	$ 25,906,644
2	A.0001550.500	HAR Emergent Fund -Steam prod	-	-	-	-	150,376	1,083,349	2,006,084	1,400,000	1,899,996	$ 6,539,805
3	A.0001550.503	HAR0C-Rpl Resv Cool Wat Sys -23918	-	-	-	-	-	-	1,015,115	-	-	$ 1,015,115
4	A.0001550.243	HAR0C-Rpl Control Sys Simultr	-	-	769,259	-	-	-	-	-	-	$ 769,259
5	A.0001550.120	HAR0C-H0 RR Drainage Construct	335,471	415,066	-	-	-	-	-	-	-	$ 750,537
6	A.0001550.118	HAR0C-H0 Reline Pond #16	-	717,900	-	-	-	-	-	-	-	$ 717,900
7	A.0001550.389	HAR0C-Basement Winterization	-	-	-	-	-	709,724	-	-	-	$ 709,724
8	A.0001550.373	HAR0C-Rpl Fire Hydrants & Valves	-	-	-	-	603,518	90	-	-	-	$ 603,608
9	A.0001550.244	HAR0C-Rpl SBAC Controls	-	-	187,866	257,438	38,315	-	-	-	-	$ 483,619
10	A.0001550.371	HAR0C-Rpl Coal Pile Retaining Wall	-	-	-	-	-	-	-	-	477,984	$ 477,984
11	A.0001605.001	HAR0C- ACI - Mercury Reduction	460,322	-	-	-	-	-	-	-	-	$ 460,322
12	A.0001550.021	HAR0C-Rpl Paving Phase 5/6	-	-	-	375,555	-	-	-	-	-	$ 375,555
13	A.0001550.018	HAR0C-Rpl Paving Phase 4/6	-	-	-	-	374,751	-	-	-	-	$ 374,751
14	A.0001550.119.001.001	HAR0C-Rpl Boiler Recovery HE	363,506	8,430	-	-	-	-	-	-	-	$ 371,936
15	A.0003000.668.001.001	HAR0C-Purchase Plant Tools	-	78,982	171,374	116,521	-	-	-	-	-	$ 366,877
16	A.0001550.399	HAR0C-Basement Winterization Ph 3	-	-	-	-	-	-	-	364,948	-	$ 364,948
17	A.0001550.397	HAR0C-Basement Winterization Ph 2	-	-	-	-	-	-	354,938	-	-	$ 354,938
18	A.0001550.034	HAR0C-Rpl Paving Phase 6/6	-	-	-	252,748	-	-	-	-	-	$ 252,748
19	A.0001550.014	HAR0C-Rpl Paving Phase 3/6	245,412	-	-	-	-	-	-	-	-	$ 245,412
20	A.0001550.398	HAR0C-Inst. Air Monitoring Sys	-	-	-	-	-	-	225,380	400	-	$ 225,780
21	A.0001550.340	HAR0C-E Rpl Inj Well Div Vlvs	-	78,597	127,880	-	-	-	-	-	-	$ 206,477
22	A.0001550.396	HAR0C-Install CEMS Compressor	-	-	-	-	-	182,007	-	-	-	$ 182,007
23	A.0001550.500.001.024	HAR0C-CESP BFP Element	-	-	-	167,395	-	-	-	-	-	$ 167,395
24	A.0001550.435	HAR0C-Wtr Drainage SprinklPiv	91,334	68,011	-	-	-	-	-	-	-	$ 159,345
25	A.0001550.500.001.031	HAR0C-Swing gates and ladder	-	-	-	134,016	-	-	-	-	-	$ 134,016
26	A.0001550.374	HAR0C-Rpl Main Electric Fire Pump	-	-	-	-	-	-	-	-	130,347	$ 130,347
27	A.0001550.363	HAR0C-Inst DCS Mgnt-Alm Shelv	110,797	-	-	-	-	-	-	-	-	$ 110,797
28	A.0001550.080	HAR0C-H0 RR Drainage Imprt Ph2	-	-	-	-	102,823	(1,724)	-	-	-	$ 101,099
												$ -
29	N/A	Other Capital Projects	261,756	(193,009)	385,962	288,362	(21)	-	-	-	-	$ 743,051
												$ -
30		**Totals**	**$ 1,868,599**	**$ 1,173,978**	**$ 1,642,341**	**$ 1,592,035**	**$ 1,269,762**	**$ 2,035,418**	**$ 3,601,517**	**$ 1,765,348**	**$ 28,352,999**	**$ 43,301,995**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: Harrington **Unit: 1**

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001550.142	HAR1C-Cooling Tower Structure	$ 2,302,487	$ 3,981,822	$ 2,450,876	$ 0	$ -	$ -	$ -	$ -	$ -	$ 8,735,185
2	A.0001550.427	HAR1C-Rpl HRH Piping &Hanger	285,313	2,828,356	4,100	-	-	-	-	-	-	$ 3,117,769
3	A.0001550.214	HAR1C-Rewind Exciter Rotor	163,657	1,800,259	4,220	-	-	-	-	-	-	$ 1,968,136
4	A.0001550.177	HAR1C-H1 Replace APH Baskets	365,918	1,234,242	1,107	-	-	-	-	-	-	$ 1,601,267
5	A.0001550.050	HAR1C-H1 Rpl Foxboro FBMs	-	-	-	740,010	670,856	-	-	-	-	$ 1,410,866
6	A.0001550.231	HAR1C-Inst ESP Chem Injection	1,131,444	92	-	-	-	-	-	-	-	$ 1,131,536
7	A.0001550.376	HAR1C-Rpl DA Heater Vessel	-	-	-	132,363	920,941	-	-	-	-	$ 1,053,304
8	A.0001550.036	HAR1C-Rpl Turb Cont Sys&Soft	87,797	951,118	8,058	-	-	-	-	-	-	$ 1,046,973
9	A.0001550.364	HAR1C-H1 CT Fire Damage Cells	931,465	6,446	-	-	-	-	-	-	-	$ 937,910
10	A.0001550.315	HAR1C - ACI - Mercury Reductio	880,244	-	-	-	-	-	-	-	-	$ 880,244
11	A.0001550.101	HAR1C-H1 CT Riser Pipes	-	783,957	-	-	-	-	-	-	-	$ 783,957
12	A.0001550.400	HAR1C-Rpl Steam Cooled Spacer Tubes	-	-	-	-	-	-	-	706,405	-	$ 706,405
13	A.0001550.248	HAR1C-Rbld Drag Chain CONV	-	-	-	-	-	-	-	703,637	1,500	$ 705,137
14	A.0001550.468	HAR1C-Rpl HV Gen Bushings	-	-	-	343,340	222,923	-	-	-	-	$ 566,263
15	A.0001550.262	HAR1C-SBAC 1B Mjr Rebld 2017	-	-	464,465	73,753	(229)	-	-	-	-	$ 537,989
16	A.0001550.493	HAR1C-Rpl Burners Ph2 -23059	-	-	-	-	-	-	-	529,000	-	$ 529,000
17	A.0001550.109	HAR1C-H1 Rpl Condenser Circ Pi	-	3,261	524,945	-	-	-	-	-	-	$ 528,206
18	A.0001550.393	HAR1C-H2 Rpl Burners PH2	-	-	-	-	-	-	-	-	508,488	$ 508,488
19	A.0001550.390	HAR1C-H1 Rpl Burners	-	-	-	-	-	-	-	508,488	-	$ 508,488
20	A.0001550.391	HAR1C-H3 Rpl Burners	-	-	-	-	-	-	508,488	-	-	$ 508,488
21	A.0001550.031	HAR1C-H1 Rpl CT MCC s	88,083	410,319	7,266	-	-	-	-	-	-	$ 505,668
22	A.0001550.249	HAR1C-Rpl CT Mechanicals Ph1	164,282	329,128	-	-	-	-	-	-	-	$ 493,410
23	A.0001550.447	HAR1C- Rpl ESP Wires Ph 1 of 2	-	-	-	-	487,979	-	-	-	-	$ 487,979
24	A.0001550.446	HAR1C- CT Fan Stacks	-	-	-	426,706	55,753	-	-	-	-	$ 482,459
25	A.0001550.209	HAR1C-H1 ESP Rpl Rappers	-	476,447	1,398	-	-	-	-	-	-	$ 477,845
26	A.0001550.307	HAR1C-H1 Upgrd DCS Opr stn	-	-	-	268,379	168,839	-	-	-	-	$ 437,217
27	A.0001550.189	HAR1C-Rpl Stack Landings	-	406,827	-	-	-	-	-	-	-	$ 406,827
28	A.0001550.250	HAR1C-Rpl CT Mechanicals Ph2	-	-	-	396,124	55	-	-	-	-	$ 396,179
29	A.0001550.467	HAR1C-Rpl EHC Pump Sys.	-	-	-	-	384,120	-	-	-	-	$ 384,120
30	A.0001550.251	HAR1C-Rpl CT Mechanicals Ph3	-	-	-	-	365,566	-	-	-	-	$ 365,566
31	A.0001550.444	HAR1C- ESP Re-build 10 TR-sets	-	-	-	34,385	264,071	-	-	-	-	$ 298,456
32	A.0001550.488	HAR1C-H1 Generator Rewedge	-	-	-	-	-	-	-	293,947	-	$ 293,947
33	A.0001550.500.001.023	HAR1C-SUBFP Motor Rewind	-	-	-	241,414	-	-	-	-	-	$ 241,414
34	A.0001550.181	HAR1C-Rpl H1 Mill A Exhauster	-	180,463	-	-	-	-	-	-	-	$ 180,463
35	A.0001550.491	HAR1C-Inst Maint Switch MV Bkrs -24	-	-	-	-	-	-	-	180,000	-	$ 180,000
36	A.0001550.175	HAR1C-H1 Upgrade CEMs Foxboro	171,588	5,523	-	-	-	-	-	-	-	$ 177,112
37	A.0001550.492	HAR1C-Rpl Digital Vlv Controllers -	-	-	-	-	-	-	-	169,134	-	$ 169,134
38	A.0001550.252	HAR1C-Rpl Drag Chain 2019	-	-	-	-	168,638	-	-	-	-	$ 168,638
39	A.0001550.445	HAR1C-Rpl Station Batteries	-	-	-	-	-	-	8,165	157,585	-	$ 165,750
40	A.0001550.387	HAR1C-Rpl Gen Hydrogen Purity Monit	-	-	-	19,648	142,113	-	-	-	-	$ 161,761
41	A.0001550.188	HAR1C-ESP Upgrd MicroVoltg Cnt	-	142,886	2,700	-	-	-	-	-	-	$ 145,586
42	A.0001550.335	HAR1C-E Rbls Flyash Vac Pmps	-	129,543	306	-	-	-	-	-	-	$ 129,849
43	A.0001550.254	HAR1C-Rpl ID Fans Inlet Exp Jn	-	126,584	-	-	-	-	-	-	-	$ 126,584
44	A.0001550.114	HAR1C-H1 Rpl Lab Analyzers 201	-	122,730	-	-	-	-	-	-	-	$ 122,730
45	A.0001550.485	HAR1C-H1 Instl Sootblwr Isol Vlvs	-	-	-	-	-	-	-	110,000	-	$ 110,000
46	A.0001550.255	HAR1C-Rpl Inverter	-	97,962	3,151	-	-	-	-	-	-	$ 101,113
47	A.0001550.442	HAR1C-ESP Re-build TR-sets Ph1	-	-	100,307	-	-	-	-	-	-	$ 100,307
48	A.0001550.500	HAR Emergent Fund -Steam prod	-	-	-	-	508,812	451,390	-	-	-	$ 960,203
												$ -
49	N/A	Other Capital Projects	233,384	244,520	166,961	327,112	103,810	32,587	34,250	122,740	60,996	$ 1,326,360
50		**Totals**	**$ 6,805,662**	**$ 14,262,486**	**$ 3,739,859**	**$ 3,003,234**	**$ 4,464,247**	**$ 483,978**	**$ 550,903**	**$ 3,480,936**	**$ 570,984**	**$ 37,362,289**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: Harrington Unit: 2

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001550.140	HAR2C-H2 Cooling Tower Structu	$ 4,219,294	$ 2,894,979	$ 1,193	$ -	$ -	$ -	$ -	$ -	$ -	$ 7,115,465
2	A.0001550.421	HAR2C Gen Stator Rewind	-	-	-	-	381,953	3,181,070	-	-	-	$ 3,563,023
3	A.0001550.449	HAR2C-RPL Boiler Corner Tubes	-	620,068	2,087,390	-	-	-	-	-	-	$ 2,707,458
4	A.0001550.218	HAR2C-Rewind Generator	1,020,932	1,673,503	-	-	-	-	-	-	-	$ 2,694,435
5	A.0001550.454	HAR2C-Rpl HRH Piping & Hangers	-	479,421	2,063,687	-	-	-	-	-	-	$ 2,543,107
6	A.0001550.483	HAR2C-H2 Generator Rotor Rewind	-	-	-	-	-	-	-	-	2,354,222	$ 2,354,222
7	A.0001550.346	HAR2C-H2 Rpl Foxboro FBMs	-	-	-	-	557,228	1,286,349	-	-	-	$ 1,843,576
8	A.0001550.500	HAR Emergent Fund -Steam prod	-	-	-	-	224,144	1,359,637	-	-	-	$ 1,583,781
9	A.0001550.219	HAR2C-Replace APH Baskets	-	689,817	779,233	-	-	-	-	-	-	$ 1,469,050
10	A.0001550.451	HAR2C-Rpl #2 HP FWH	-	-	-	-	-	-	-	133,000	1,247,000	$ 1,380,000
11	A.0001550.230	HAR2C-H2 Mill C Mjr Mjr Overha	1,132,218	59,102	-	-	-	-	-	-	-	$ 1,191,320
12	A.0001550.185	HAR2C-H2 Rpl #3 HP FWH	-	236,723	739,872	-	-	-	-	-	-	$ 976,594
13	A.0001550.190	HAR2C-H2 Mill B Major Major OH	-	194,337	731,820	-	-	-	-	-	-	$ 926,157
14	A.0001550.019	HAR2C-Rpl Turbine Cont Sys&Sof	-	467,029	428,788	-	-	-	-	-	-	$ 895,818
15	A.0001550.029	HAR2C-H2 Rpl CT MCC s	-	-	-	-	-	-	-	-	824,671	$ 824,671
16	A.0001550.272	HAR2C-Rpl Drag Chain CONV	-	-	-	-	-	-	-	-	745,081	$ 745,081
17	A.0001550.186	HAR2C-H2 Rpl #6 LP FWH	-	-	-	-	142,935	556,218	-	-	-	$ 699,153
18	A.0001550.187	HAR2C-H2 Rpl #5 LP FWH	-	-	-	-	140,735	558,150	-	-	-	$ 698,885
19	A.0001550.406	HAR2C-Rpl Steam Cooled Spacer Tubes	-	-	-	-	20,751	652,382	-	-	-	$ 673,133
20	A.0001550.093	HAR2C-H2 Rpl Distribution Valv	-	1,938	616,604	-	-	-	-	-	-	$ 618,542
21	A.0001550.392	HAR2C-H2 Rpl Burners	-	-	-	-	17,720	562,661	-	-	-	$ 580,381
22	A.0001550.006	HAR2C-H2 Install Ash Silo Elev	-	-	-	570,046	-	-	-	-	-	$ 570,046
23	A.0001550.308	HAR2C-H2 Upgrd DCS Opr stn	-	7,096	524,958	-	(5,574)	-	-	-	-	$ 526,481
24	A.0001550.450	HAR2C- Rpl CT Fan Stacks	-	-	-	460,741	26,639	-	-	-	-	$ 487,380
25	A.0001550.277	HAR2C-SBAC 2C Mjr Rebld 2016	100,573	329,395	-	-	-	-	-	-	-	$ 429,968
26	A.0001550.497	HAR2C-Inst Instrument Air Comp -242	-	-	-	-	-	-	-	-	353,496	$ 353,496
27	A.0001550.470	HAR2C-Rpl CT Riser Inlet Vlvs	-	-	-	-	180,452	164,624	-	-	-	$ 345,076
28	A.0001550.172	HAR2C-H2 Rpl Stack Landings	344,611	-	-	-	-	-	-	-	-	$ 344,611
29	A.0001550.453	HAR2C- Rpl Bghse Doors	-	9,136	328,170	-	-	-	-	-	-	$ 337,306
30	A.0001550.472	HAR2C-Rpl EHC Pump Sys.	-	-	-	-	49,231	280,026	-	-	-	$ 329,257
31	A.0001550.268	HAR2C-Rpl CT Mechanicals	-	319,975	-	-	-	-	-	-	-	$ 319,975
32	A.0001550.495	HAR2C-Rpl Gen Bkr FK05 -23929	-	-	-	-	-	-	-	-	302,700	$ 302,700
33	A.0001550.235	HAR2C-H2 Rebag Partial 2020	-	-	-	-	-	286,325	-	-	-	$ 286,325
34	A.0001550.471	HAR2C-Rpl CT MCCs on F-Bus	-	-	-	-	12,152	260,161	-	-	-	$ 272,313
35	A.0001550.452	HAR2C- Rpl Bghse Inlet Exp Jnts	-	415	267,893	-	-	-	-	-	-	$ 268,308
36	A.0001550.269	HAR2C-Rpl Circ Pump Suction Ho	-	26,139	221,214	-	-	-	-	-	-	$ 247,353
37	A.0001550.028	HAR2C-Rpl CT Acid Tank	-	-	-	235,780	18	-	-	-	-	$ 235,798
38	A.0001550.238	HAR2C-H2 Rebag Partial 2022	-	-	-	-	-	-	-	234,500	-	$ 234,500
39	A.0001550.236	HAR2C-H2 Rebag Partial 2021	-	-	-	-	-	-	231,000	-	-	$ 231,000
40	A.0001550.207	HAR2C-Rebag Partial 2019	-	-	-	154,355	69,746	-	-	-	-	$ 224,100
41	A.0001550.176	HAR2C-H2 Upgrade CEMs Foxboro	-	221,138	93	-	-	-	-	-	-	$ 221,231
42	A.0001550.166	HAR2C-H2 Rebag Partial 2015	210,671	-	-	-	-	-	-	-	-	$ 210,671
43	A.0001550.344	HAR2C-E Rpl C Mill Exh Fan Brg	-	188,323	4,101	-	-	-	-	-	-	$ 192,424
44	A.0001550.407	HAR2C-Inst Maint Switch on MV Bkrs	-	-	-	-	18,838	171,323	-	-	-	$ 190,161
45	A.0001550.498	HAR2C-Rpl Digital Vlv Controllers -	-	-	-	-	-	-	-	-	172,665	$ 172,665
46	A.0001550.487	HAR2C-H2 Rpl MBFP Discharge Vlv	-	-	-	-	-	-	-	-	150,000	$ 150,000
47	A.0001550.310	HAR2C-Rpl Ctwr Motor Wiring	146,445	-	-	-	-	-	-	-	-	$ 146,445
48	A.0001550.096	HAR2C-H2 Blr Blowdown Separato	-	143,179	-	-	-	-	-	-	-	$ 143,179
49	A.0001550.388	HAR2C-Rpl Gen Hydrogen Purity Monit	-	-	-	-	97,928	21,457	-	-	-	$ 119,385
50	A.0001550.273	HAR2C-Rpl Inverter	-	63,947	55,153	-	-	-	-	-	-	$ 119,100
51	A.0001550.027	HAR2C-E 2C SBAC Motor Rewind	-	118,322	-	-	-	-	-	-	-	$ 118,322
52	A.0001550.322	HAR2C-Rpl Cond Tube Install	-	118,069	-	-	-	-	-	-	-	$ 118,069
												$ -
53	N/A	Other Capital Projects	335,296	196,087	343,990	247,362	42,038	233,122	-	-	197,602	$ 1,595,497
												$ -
54		**Totals**	**$ 7,510,040**	**$ 9,058,137**	**$ 9,194,158**	**$ 1,668,284**	**$ 1,976,933**	**$9,573,507**	**$ 231,000**	**$ 367,500**	**$6,347,437**	**$ 45,926,995**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: Harrington **Unit: 3**

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001550.035	HAR3C-Rpl Boiler Economizer	$ -	$ -	$ 367,892	$ 4,787,789	$ 9,764	$ -	$ -	$ -	$ -	$ 5,165,446
2	A.0001550.474	HAR3C-Rpl Cooling Tower Structure	-	-	-	-	-	-	4,373,779	-	-	4,373,779
3	A.0001550.410	HAR3C-Rpl Failed Circ liner	-	-	-	-	-	-	3,033,678	270,081	-	3,303,759
4	A.0001550.023	HAR3C-Rewind H3 Generator	2,179,820	56,478	-	-	-	-	-	-	-	2,236,298
5	A.0001550.283	HAR3C-Rpl APH Baskets	-	-	-	1,749,224	-	-	-	-	-	1,749,224
6	A.0001550.457	HAR3C - Rpl CT Hot Water Deck	-	-	-	1,552,940	176,104	-	-	-	-	1,729,044
7	A.0001550.215	HAR3C-Rewind Exciter Rotor	1,668,285	559	-	-	-	-	-	-	-	1,668,844
8	A.0001550.475	HAR3C-Rpl CT Bottom Structure	-	-	-	1,405,610	6,699	-	-	-	-	1,412,310
9	A.0001550.456	HAR3C- Rpl CT fan deck	-	-	-	675,125	310,590	-	-	-	-	985,715
10	A.0001550.411	HAR3C-TCS Upgrade	-	-	-	-	-	-	944,297	-	-	944,297
11	A.0001550.309	HAR3C-H3 Upgrd DCS Opr stn	-	-	-	776,903	1,286	-	-	-	-	778,189
12	A.0001550.062	HAR3C-H3 Coolingtower Riser Pi	761,809	2,009	-	-	-	-	-	-	-	763,819
13	A.0001550.477	HAR3C-Rpl HPIP Turbine Blades	-	-	-	-	-	10,155	722,500	-	-	732,655
14	A.0001550.122	HAR3C-Rpl CT Drift Eliminators	705,105	580	-	-	-	-	-	-	-	705,685
15	A.0001550.412	HAR3C-Rpl Steam Cooled Spacer Tubes	-	-	-	-	-	-	695,482	-	-	695,482
16	A.0001550.500	HAR Emergent Fund -Steam prod	-	-	-	-	396,922	277,134	-	-	-	674,056
17	A.0001550.299	HAR3C-SBAC Joy Mjr Rebld 2016	-	55,704	476,328	-	-	-	-	-	-	532,031
18	A.0001550.345	HAR3C-Mill B Major Overhaul	-	-	59,035	29,517	33,810	407,888	-	-	-	530,250
19	A.0001550.037	HAR3C-Upg Conden Tube Clean Sy	509,787	7,810	-	-	-	-	-	-	-	517,597
20	A.0001550.033	HAR3C-Inst APH Fab Expn Jnts	486,457	984	-	-	-	-	-	-	-	487,442
21	A.0001550.289	HAR3C-Rpl Deflation Pipe 2/2	-	145,078	314,802	-	-	-	-	-	-	459,880
22	A.0001550.285	HAR3C-Rpl CT Mechanicals Ph2	-	-	-	262,975	187,595	-	-	-	-	450,570
23	A.0001550.394	HAR3C-Overhaul Stack Elevator	-	-	-	-	446,456	-	-	-	-	446,456
24	A.0001550.288	HAR3C-Rpl Deflation Pipe 1/2	2,005	432,562	-	-	-	-	-	-	-	434,567
25	A.0001550.458	HAR3C- Rpl Bghse Doors	-	-	-	426,024	729	-	-	-	-	426,753
26	A.0001550.160	HAR3C-Coal Mill B Major OH	418,597	735	-	-	-	-	-	-	-	419,332
27	A.0001550.429	HAR3C-Rpl MBFP Element 2015	265,837	133,709	0	-	-	-	-	-	-	399,546
28	A.0001550.127	HAR3C-H3 Rpl Blr Elevator	393,333	-	-	-	-	-	-	-	-	393,333
29	A.0001550.065	HAR3C-H3 Rpl Condenser Circ Pi	385,946	-	-	-	-	-	-	-	-	385,946
30	A.0001550.479	HAR3C-Rpl EHC Pump Sys	-	-	-	366,472	11,663	-	-	-	-	378,135
31	A.0001550.066	HAR3C-H3 Rpl SH Desuperheat Pi	355,090	5	-	-	-	-	-	-	-	355,095
32	A.0001550.504	HAR3C-Inst Instrument Air Com -2429	-	-	-	-	-	-	-	-	353,496	353,496
33	A.0001550.169	HAR3C-Rpl Circ Pump Suction Ho	338,478	-	-	-	-	-	-	-	-	338,478
34	A.0001550.121	HAR3C-H3 Rpl Stack Landings	332,817	114	-	-	-	-	-	-	-	332,931
35	A.0001550.455	HAR3C- ACW Heat Exchangers	-	-	-	322,753	1,209	-	-	-	-	323,963
36	A.0001550.501	HAR3C-Rpl Gen Bkr FK65 -23928	-	-	-	-	-	-	302,800	-	-	302,800
37	A.0001550.167	HAR3C-H3 Rpl Steam Drum Intern	277,865	-	-	-	-	-	-	-	-	277,865
38	A.0001550.168	HAR3C-H3 Rpl GSU Oil Coolers 2	275,498	1,965	-	-	-	-	-	-	-	277,463
39	A.0001550.500.001.02	HAR3C-Rpl Bghse Inlet Duct Exp Jnts	-	-	-	266,833	-	-	-	-	-	266,833
40	A.0001550.141	HAR3C-H3 Rebag Partial 2015	258,114	-	-	-	-	-	-	-	-	258,114
41	A.0001550.233	HAR3C-Rwnd E ID Fan Motor	235,780	2,318	-	-	-	-	-	-	-	238,097
42	A.0001550.284	HAR3C-Rpl CT Mechanicals Ph1	-	208,987	27,057	-	-	-	-	-	-	236,045
43	A.0001550.132	HAR3C-H3 Rpl C Blr Circ Pump	257,328	(41,037)	-	-	-	-	-	-	-	216,291
44	A.0001550.240	HAR3C-H3 Rebag Partial 2023	-	-	-	-	-	-	-	-	202,000	202,000
45	A.0001550.239	HAR3C-H3 Rebag Partial 2022	-	-	-	-	-	-	-	195,000	-	195,000
46	A.0001550.237	HAR3C-H3 Rebag Partial 2021	-	-	-	-	-	-	192,000	-	-	192,000
47	A.0001550.162	HAR3C-Coal Mill C Exhauster Fa	184,372	-	-	-	-	-	-	-	-	184,372
48	A.0001550.386	HAR3C-Rpl Gen Hydrogen Purity Monit	-	-	-	-	-	4,514	175,500	-	-	180,014
49	A.0001550.151	HAR3C-H3 Rebag Partial 2018	-	-	-	176,360	1,340	-	-	-	-	177,700
50	A.0001550.500.001.02	HAR3C-3D SBAC Motor Rewind	-	-	-	170,520	-	-	-	-	-	170,520
51	A.0001550.229	HAR3C-Rpl Circ Rtrn Pipe Exp J	161,344	5,762	-	-	-	-	-	-	-	167,105
52	A.0001550.116	HAR3C-H3 CEMs Foxboro Upgrade	164,518	-	-	-	-	-	-	-	-	164,518
53	A.0001550.500.001.01	HAR3C-CT N Circ Pump Mtr Rewind	-	-	-	152,560	-	-	-	-	-	152,560
54	A.0001550.476	HAR3C-Rpl CT Acid Tank	-	-	-	-	-	-	152,336	-	-	152,336
55	A.0001550.294	HAR3C-Rpl Inverter	-	117,599	34,737	-	-	-	-	-	-	152,335
56	A.0001550.146	HAR3C-H3 Rebag Partial 2017	-	89,070	62,298	-	-	-	-	-	-	151,367
57	A.0001550.083	HAR3C-H3 Rpl Lab Analyzers 201	-	-	-	149,713	-	-	-	-	-	149,713
58	A.0001550.134	HAR3C-Rpl Circ Pump Exp Joints	141,675	-	-	-	-	-	-	-	-	141,675
59	A.0001550.208	HAR3C-H3 Rebag Partial 2019	-	-	-	-	133,457	6,226	-	-	-	139,683
60	A.0001550.144	HAR3C-H3 Rebag Partial 2016	127,244	-	-	-	-	-	-	-	-	127,244
61	A.0001550.500.001.00	HAR3C-Rpl cell 7 & 11 CT Mech	-	-	122,875	-	-	-	-	-	-	122,875
62	A.0001550.382	HAR3-H3 Rpl CT Pumphouse Roof	-	-	-	-	122,646	-	-	-	-	122,646
63	A.0001645.001	HAR3C - ACI -Mercury Reduction	119,314	-	-	-	-	-	-	-	-	119,314
64	A.0001550.290	HAR3C-Rpl Drag Chain	-	-	-	-	-	-	117,000	-	-	117,000
65	A.0001550.486	HAR3C-H3 Instl Sootblwr Isol Vlvs	-	-	-	-	-	-	115,000	-	-	115,000
66	A.0001550.224	HAR3C-Rpl SH Spray Valves	112,912	-	-	-	-	-	-	-	-	112,912
67	N/A	Other Capital Projects	788,261	364,928	231,548	549,125	12,351	(15,061)	426,266	750	-	2,358,167
68		**Totals**	**$ 11,907,590**	**$ 1,585,918**	**$ 1,696,571**	**$ 13,820,443**	**$ 1,852,622**	**$ 690,856**	**$ 11,250,638**	**$ 465,831**	**$ 555,496**	**$ 43,825,964**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: Jones **Unit: 0**

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001586.299	JON0C-Effluent Water Optimization	$ -	$ -	$ -	$ -	$ -	$4,229,098	$ 800	$ -	$ -	$ 4,229,898
2	A.0001586.500	JON Emergent Fund -Steam prod	-	-	-	-	536,120	524,091	1,100,003	1,000,000	999,996	$ 4,160,210
3	A.0001586.017	JON0C NOX Controls Enhancement	-	-	-	-	2,022	1,666,866	-	-	-	$ 1,668,888
4	A.0001586.179	JON0C-Reline #3 Blowdown Pond	-	-	-	-	-	-	1,169,380	-	-	$ 1,169,380
5	A.0001586.501	JON Emergent Fund -Other prod	-	-	-	-	-	943,154	-	-	-	$ 943,154
6	A.0001586.089	JONC-Inst CT Blwd line to pond	531,524	-	-	-	-	-	-	-	-	$ 531,524
7	A.0001586.500.001.011	JON0C-Smart Pig Test	-	-	-	472,254	-	-	-	-	-	$ 472,254
8	A.0001586.263	JON0C-Rpl Oil Circ Breaker JK10-210	-	-	-	26,118	338,855	55,529	-	-	-	$ 420,503
9	A.0001586.073	JON0C-Inst Backflow Prvt on HT	-	-	13,223	158,017	22,777	-	-	-	-	$ 194,017
10	A.0001586.085	JON0C-New Office Bld Retrofit	156,714	5,140	-	-	-	-	-	-	-	$ 161,854
11	A.0001586.296	JON0C-Replace Section 13 Pivot	-	-	-	-	-	156,425	-	-	-	$ 156,425
12	A.0001586.099	JON0C-Rpl Reactor Sump Pumps	64,613	74,645	-	-	-	-	-	-	-	$ 139,258
13	A.0001586.095	JON0C-Rpl S Inst air comp	-	-	-	-	-	-	-	137,324	-	$ 137,324
14	A.0001586.185	JON0C-Repl Aftertreater Acid T	-	126,644	9,272	-	-	-	-	-	-	$ 135,916
15	A.0001586.015	JON0C-ICCP Replacement-Jones RR	-	-	-	-	100,132	-	-	-	-	$ 100,132
												$ -
16	N/A	Other Capital Projects	206,116	159,816	190,350	192,384	72,119	303,355	98,505	78,583	55,212	$ 1,356,441
												$ -
17		**Totals**	**$ 958,968**	**$ 366,245**	**$ 212,845**	**$ 848,774**	**$ 1,072,026**	**$7,878,518**	**$ 2,368,688**	**$ 1,215,907**	**$ 1,055,208**	**$ 15,977,178**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: Jones **Unit: 1**

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001586.156	JON1C-CT Rbld Cells 1,2,3	$ 1,013,642	$ 3,287,839	$ 936,796	$ -	$ -	$ -	$ -	$ -	$ -	$ 5,238,277
2	A.0001586.262	JON1C-Circ Water Struct Liner-19992	-	-	2,702,895	241,194	-	-	-	-	-	$ 2,944,089
3	A.0001586.081	JON1C-Rpl Seamed HRH Piping	-	-	2,159,205	27,956	-	-	-	-	-	$ 2,187,161
4	A.0001586.312	JON1C-Corner Tube Replacement -2404	-	-	-	-	-	367,796	1,560,211	-	-	$ 1,928,007
5	A.0001586.126	JON1C-Rewind Exciter Rotor	-	-	-	-	-	219,569	1,319,425	-	-	$ 1,538,994
6	A.0001586.039	JON1C-Rpl no 1 HPSI FWH	-	-	-	-	-	-	-	-	1,448,500	$ 1,448,500
7	A.0001586.129	JON1C-Rpl Rosemount 1151 XMTRS	-	-	822,710	11,127	104	-	-	-	-	$ 833,941
8	A.0001586.049	JON1C-Rpl Cold Side APH Basket	-	97,800	654,364	21,022	-	-	-	-	-	$ 773,186
9	A.0001586.008	JON1C-Upg Foxboro FBMs	-	3,030	676,565	(122)	-	-	-	-	-	$ 679,473
10	A.0001586.253	JON1C-BFP Elem Comp Rpl-21019	-	-	180,027	298,757	-	-	-	-	-	$ 478,784
11	A.0001586.109	JON1C-Rpl Elvtr and Elvtr Cntr	426,688	-	-	-	-	-	-	-	-	$ 426,688
12	A.0001586.075	JON1C-Rpl CT Mech Draft Ph II	2,213	385,365	-	-	-	-	-	-	-	$ 387,578
13	A.0001586.142	JON1C-Rpl Oil Circ Brkr JK00	-	-	368,948	434	4,446	-	-	-	-	$ 373,828
14	A.0001586.313	JON1C-Igniter Flame Detector Upg -2	-	-	-	-	-	-	364,000	-	-	$ 364,000
15	A.0001586.284	JON1C-Rpl CT Makeup Piping	-	-	-	141,174	193,626	-	-	-	-	$ 334,801
16	A.0001586.083	JON1C-Rpl CWP Pmp Dischrg pipe	-	-	-	-	-	-	324,364	-	-	$ 324,364
17	A.0001586.282	JON1C-Rpl CT Pltfrm 10&11	-	-	-	-	-	-	318,094	-	-	$ 318,094
18	A.0001586.094	JON1C-Rpl Emerg Diesel Gen	193,373	101,874	-	-	-	-	-	-	-	$ 295,247
19	A.0001586.303	JON1C-Rpl Normal Source Breakers	-	-	-	-	-	-	272,500	-	-	$ 272,500
20	A.0001586.264	JON1C-CEM's Upgrade-19976	-	-	-	208,207	-	-	-	-	-	$ 208,207
21	A.0001586.250	JON1C-Rpl W BFP Element	165,727	21,505	-	-	-	-	-	-	-	$ 187,232
22	A.0001586.055	JON1C-Abate & Reinsulate DA	-	-	173,636	4,434	-	-	-	-	-	$ 178,071
23	A.0001586.302	JON1C-Rpl #9 Fan Shroud	-	-	-	-	-	149,504	-	-	-	$ 149,504
24	A.0001586.141	JON1C-Rpl IPs with DVC	-	-	134,643	2,932	(314)	-	-	-	-	$ 137,262
25	A.0001586.088	JON1C-Rpl Station Battery	104,262	-	-	-	-	-	-	-	-	$ 104,262
26	A.0001586.261	JON1C-Replace CP's-19974	-	-	97,474	2,962	-	-	-	-	-	$ 100,436
												$ -
												$ -
27	N/a	Other Capital Projects	(7,836)	136,621	95,901	58,411	-	71,743	163,000	99,592	8,000	$ 625,432
												$ -
28		**Totals**	**$ 1,898,070**	**$ 4,034,032**	**$ 9,003,164**	**$ 1,018,489**	**$ 197,863**	**$ 808,612**	**$ 4,321,594**	**$ 99,592**	**$ 1,456,500**	**$ 22,837,916**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: Jones **Unit: 2**

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001586.006	JON2C-E CT Rebuild	$ -	$ 3,108,644	$ 2,232,116	$ -	$ -	$ -	$ -	$ -	$ -	$ 5,340,759
2	A.0001586.318	JON2C-Corner Tube Replacement -2404	-	-	-	-	-	3,109	2,086,578	-	-	$ 2,089,687
3	A.0001586.074	JON2C-Rpl Seamed HRH Piping	-	-	-	331,060	1,624,440	-	-	-	-	$ 1,955,499
4	A.0001586.044	JON2C-Rpl Turbine Throttle Vlv	808,771	41,012	-	-	-	-	-	-	-	$ 849,783
5	A.0001586.269	JON2C-SH Header Sealbox Rpl-21240	-	-	-	139,795	691,553	-	-	-	-	$ 831,348
6	A.0001586.125	JON2C-Rewind Exciter Rotor	-	-	-	150,896	562,095	-	-	-	-	$ 712,992
7	A.0001586.058	JON2C-Automate Electrical Brd	677,835	1,870	-	-	-	-	-	-	-	$ 679,704
8	A.0001586.289	JON2C-Rpl L1 Gen End Turb Blds	-	-	-	74,899	569,534	-	-	-	-	$ 644,433
9	A.0001586.067	JON2C-Upg Foxboro FBMs	-	-	-	362,048	273,876	-	-	-	-	$ 635,924
10	A.0001586.310	JON2C-DA Heater Replacement	-	-	-	-	-	-	54,000	577,437	-	$ 631,437
11	A.0001586.268	JON2C-3051 Transm Rpl Ph 2-20818	-	-	-	127,139	485,414	-	-	-	-	$ 612,553
12	A.0001586.500	JON Emergent Fund -Steam prod	-	-	-	-	549,681	541	-	-	-	$ 550,222
13	A.0001586.026	JON2C-Rpl Cold Side APH Basket	542,851	894	-	-	-	-	-	-	-	$ 543,745
14	A.0001586.316	JON2C-Upg DCS Operator Stations -23	-	-	-	-	-	-	231,346	248,633	-	$ 479,979
15	A.0001586.112	JON2C-Rpl Elvr and Elvtr Cntrl	117,962	325,377	-	-	-	-	-	-	-	$ 443,339
16	A.0001586.324	JON2C- Rpl CT Acid Tank -24466	-	-	-	-	-	-	399,996	-	-	$ 399,996
17	A.0001586.317	JON2C-Igniter Flame Detctr Upg -241	-	-	-	-	-	-	-	364,000	-	$ 364,000
18	A.0001586.093	JON2C-Rpl Emerg Diesel Gen	356,343	6,276	-	-	-	-	-	-	-	$ 362,619
19	A.0001586.287	JON2C-Rpl CT Makeup Piping	-	-	-	144,267	194,944	-	-	-	-	$ 339,211
20	A.0001586.157	JON2C-Circ Water Struct Liner	-	-	-	-	-	-	-	-	336,400	$ 336,400
21	A.0001586.065	JON2C-Rpl Rosemount 1151 XMTRS	290,206	(1,326)	-	-	-	-	-	-	-	$ 288,880
22	A.0001586.270	JON2C-Rpl Oil Circ Break JK45-19705	-	-	-	141,353	137,696	-	-	-	-	$ 279,049
23	A.0001586.304	JON2C-Rpl Normal Source Breakers	-	-	-	-	-	-	-	272,500	-	$ 272,500
24	A.0001586.011	JON2C-Replace CT Distribution	230,550	3,074	-	-	-	-	-	-	-	$ 233,624
25	A.0001586.012	JON2C-Repl APH Expansion Joint	228,256	5,232	-	-	-	-	-	-	-	$ 233,487
26	A.0001586.265	JON2C-CEM's Upgrade-19975	-	-	-	217,260	920	-	-	-	-	$ 218,180
27	A.0001586.285	JON2C-Rpl Circ Pump Suc Hood	-	-	-	44,469	144,552	-	-	-	-	$ 189,020
28	A.0001586.014	JON2C-E Rpl Mech Draft 3&8	-	88,633	94,006	28	-	-	-	-	-	$ 182,667
29	A.0001586.003	JON2C-E CT Mech Draft 4,6,11	-	180,885	-	-	-	-	-	-	-	$ 180,885
30	A.0001586.500.001.01	JON2C-Rwd Normal Src Xfrmr	-	-	-	139,191	-	-	-	-	-	$ 139,191
31	A.0001586.271	JON2C-Rpl CP's-19973	-	-	-	79,613	55,901	-	-	-	-	$ 135,513
32	A.0001586.500.001.00	JON2C-Rpl Economizer Exp Jnts	-	-	123,718	6,260	-	-	-	-	-	$ 129,978
33	A.0001586.286	JON2C-Inst Onln Vib Mntr Sys	-	-	-	-	69,559	49,750	-	-	-	$ 119,309
34	A.0001586.128	JON2C-Rpl Turb Vib Monitoring	144,413	(35,141)	-	-	-	-	-	-	-	$ 109,272
35	A.0001586.138	JON2C-Rpl IPs with DVC	-	87,875	20,842	-	-	-	-	-	-	$ 108,717
												$ -
36	N/a	Other Capital Projects	85,505	134,801	166,864	167,693	46,153	-	25,664	4,033	48,528	$ 679,240
												$ -
37		**Totals**	**$ 3,482,692**	**$ 3,948,104**	**$ 2,637,545**	**$ 2,125,971**	**$ 5,406,319**	**$ 53,400**	**$ 2,797,584**	**$ 1,466,603**	**$ 384,928**	**$ 22,506,147**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: Jones **Unit: 3**

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001586.020	JON3C Jones 3&4 Hot Gas Path Repla	$ -	$ -	$ -	$ -	$ 530,872	$ 12,298,573	$ -	$ -	$ -	$ 12,829,445
2	A.0001586.019	JON3C-Rpl Exhaust Baffles	-	-	-	-	-	-	-	50,500	524,500	$ 575,000
3	A.0001586.291	JON3C-Rpl Exh Expansion Joint	-	-	-	263,838	-	-	-	-	-	$ 263,838
4	A.0001586.501	JON Emergent Fund -Other prod	-	-	-	-	-	122,620	-	-	-	$ 122,620
												$ -
5	N/A	Other Capital Projects	-	-	-	10,254	-	51,901	1,000	-	-	$ 63,155
6		**Totals**	**$ -**	**$ -**	**$ -**	**$ 274,092**	**$ 530,872**	**$ 12,473,094**	**$ 1,000**	**$ 50,500**	**$ 524,500**	**$ 13,854,058**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: Jones Unit: 4

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001586.293	JON4C-Rpl Hot Path	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,495,566	$ 11,626,899	$ -	$ 14,122,465
2	A.0001586.322	JON4C-Rpl Evap Media -23938	-	-	-	-	-	-	-	3,000	247,000	$ 250,000
3	A.0001609.002	JON4C-Jones 4 Xmsn Const	(171,177)	-	3,064	-	-	-	-	-	-	$ (168,113)
4	A.0001586.308	JON4C-Exhaust Stack Silencer Baffle	-	-	-	-	98,044	720,234	-	-	-	$ 818,278
5	A.0001586.294	JON4C-Rpl Exh Expansion Joint	-	-	-	239,132	-	-	-	-	-	$ 239,132
6	A.0001586.501.001.004	JON4C-Rpl Turning Gear Gearbox	-	-	-	146,727	-	-	-	-	-	$ 146,727
												$ -
7	N/a	Other Capital Projects	-	-	-	-	3,537	52,139	-	-	-	$ 55,676
8		**Totals**	**(171,177)**	**-**	**3,064**	**385,859**	**101,581**	**772,373**	**2,495,566**	**11,629,899**	**247,000**	**15,464,164**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: Maddox Unit: 0

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001529.500	MAD Emergent Fund -Steam prod	$ -	$ -	$ -	$ -	$ 49,188	$ 122,362	$ 664,200	$ 679,884	$ 500,004	$ 2,015,638
2	A.0001529.001	MAD0C-Install Inside Firemain	18,518	557,212	146,678	-	-	-	-	-	-	$ 722,407
3	A.0001529.095	MAD0C-Rpl Overhead Crane - NEW	-	-	-	-	-	708,732	-	-	-	$ 708,732
4	A.0001529.085	MAD0C-Refurbish Plant Bathrooms	-	-	-	-	-	-	197,933	-	-	$ 197,933
5	A.0001529.051	MAD0C-Rpl Waterwells	-	-	-	-	-	-	-	160,000	-	$ 160,000
6	A.0001529.096	MAD0C-Rpl WW Controls -23960	-	-	-	-	-	-	152,520	-	-	$ 152,520
7	A.0001529.099	MAD0C-Rpl 1A Inst Air Comp -2417	-	-	-	-	-	-	-	-	150,000	$ 150,000
8	A.0001529.098	MAD0C-Rpl 1B Inst Air Comp -2417	-	-	-	-	-	-	-	-	150,000	$ 150,000
9	A.0001529.083	MAD0C-Rpl Waterwells 2020	-	-	-	-	-	139,808	-	-	-	$ 139,808
10	A.0001529.023	MAD0C-Rpl Potable H20 Tank	-	131,766	-	-	-	-	-	-	-	$ 131,766
11	A.0003000.674.001.00	MAD0C-Maddox Tools	-	23,592	27,118	61,144	-	-	-	-	-	$ 111,854
												$ -
12	N/A	Other Capital Projects	100,356	83,141	1,979	80,254	-	90,397	176,859	-	-	$ 532,985
												$ -
13		**Totals**	**$ 118,874**	**$ 795,711**	**$ 175,775**	**$ 141,397**	**$ 49,188**	**$ 1,061,299**	**$ 1,191,512**	**$ 839,884**	**$ 800,004**	**$ 5,173,645**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: Maddox **Unit: 1**

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001529.089	MAD1C-Rpl SH Term Tubes	$ -	$ -	$ -	$ -	$ -	$ 1,219,434	$ -	$ -	$ -	$ 1,219,434
2	A.0001529.027	MAD1C-Rpl Cooling Twr P3	925,676	-	-	-	-	-	-	-	-	$ 925,676
3	A.0001529.084	MAD1C-Rpl #2 HP FWH	-	-	-	-	58,251	747,041	5,000	-	-	$ 810,291
4	A.0001529.004	MAD1C-E Rpl Sprheat and HRH	-	792,906	9,278	-	-	-	-	-	-	$ 802,184
5	A.0001529.073	MAD1C-E Gen Rotor Rewind	-	723,223	(203)	-	-	-	-	-	-	$ 723,020
6	A.0001529.500.001.010	MAD1C-Rpl HRH Terminal Tubes	-	-	-	638,328	-	-	-	-	-	$ 638,328
7	A.0001529.067	MAD1C-Rpl #1 HP FWH-20820	-	-	71,112	530,976	841	-	-	-	-	$ 602,929
8	A.0001529.005	MAD1C-Rpl CT Fans & Gearboxes	-	-	-	308,889	251,401	-	-	-	-	$ 560,290
9	A.0001529.068	MAD1C-Upg DCS Opr Stn-19969	-	-	-	-	-	518,503	1,500	-	-	$ 520,003
10	A.0001529.024	MAD1C-Rpl CS APH Basket&Seals	-	-	1,179	469,856	1,307	-	-	-	-	$ 472,342
11	A.0001529.032	MAD1C-Rpl M1 Elevator	-	-	94,736	293,373	11,163	-	-	-	-	$ 399,272
12	A.0001529.081	MAD1C-Rpl Ct Fan MCC Breakers	-	-	-	-	396,806	-	-	-	-	$ 396,806
13	A.0001529.026	MAD1C-Rewedge Generator	-	390,696	4,691	-	-	-	-	-	-	$ 395,386
14	A.0001529.057	MAD1C-Rpl Air Prehtr Exp Joint	-	-	-	336,321	605	-	-	-	-	$ 336,925
15	A.0001529.500	MAD Emergent Fund -Steam prod	-	-	-	-	196,477	59,489	-	-	-	$ 255,965
16	A.0001529.104	MAD1C-Upgrade FCP270s -23967	-	-	-	-	-	-	-	245,000	-	$ 245,000
17	A.0001529.056	MAD1C-Upg CEMs Foxboro Sys	-	-	-	-	-	225,743	-	-	-	$ 225,743
18	A.0001529.007	MAD1C-Rpl CT Distribution Vlvs	-	173,455	3,578	-	-	-	-	-	-	$ 177,033
19	A.0001529.037	MAD1C-Rpl CT Wiring	-	139,411	(138)	-	-	-	-	-	-	$ 139,272
20	A.0001529.053	MAD1C-Rpl Circ Exp Joints	-	-	-	-	-	-	-	135,818	-	$ 135,818
												$ -
21	N/a	Other Capital Projects	-	199,176	149,309	65,905	17,715	45,312	41,400	107,150	-	$ 625,967
												$ -
22		**Totals**	**$ 925,676**	**$ 2,418,866**	**$ 333,542**	**$ 2,643,648**	**$ 934,565**	**$ 2,815,521**	**$ 47,900**	**$ 487,968**	**$ -**	**$ 10,607,685**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: Maddox CT **Unit: 2**

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001529.106	MAD2C-Hot Gas Path -24305	$ -	$ -	$ -	$ -	$ -	$ 213,325	$ 4,088,356	$ -	$ -	$ 4,301,681
2	A.0001529.092	MAD2C-RPL OCB Gen Breaker 52G	$ -	$ -	$ -	$ -	$ -	$ 11,792	$ 552,391	$ 6,700	$ -	$ 570,883
												$ -
3	N/A	Other Capital Projects	17,247	21,343	108,895	134,578	106	40,523	-	53,150	-	$ 375,843
4		**Totals**	**$ 17,247**	**$ 21,343**	**$ 108,895**	**$ 134,578**	**$ 106**	**$ 265,641**	**$ 4,640,747**	**$ 59,850**	**$ -**	**$ 5,248,407**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: Maddox CT **Unit: 3**

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001529.094	MAD3C-Install BlackStart	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 449,328	$ 17,799,996	$ 18,249,324
2	A.0001529.082	MAD3C-Rpl U940 Gen Breaker	-	-	-	14,418	334,594	-	-	-	-	$ 349,011
3	A.0001529.066	MAD3C-Rpl M3 Fire Suppression-21344	-	-	-	20,944	(20,944)	-	-	-	-	$ (0)
4	A.0001529.080	MAD3C-Rpl Exhaust Stack	-	-	-	190,432	-	-	-	-	-	$ 190,432
5	A.0001529.018	MAD3C-Rpl Lube Oil Cooler	-	164,870	1,466	-	-	-	-	-	-	$ 166,336
												$ -
												$ -
6	N/a	Other Capital Projects	-	-	-	-	-	-	-	-	-	$ -
												$ -
7		**Totals**	**$ -**	**$ 164,870**	**$ 1,466**	**$ 225,793**	**$ 313,650**	**$ -**	**$ -**	**$ 449,328**	**$ 17,799,996**	**$ 18,955,103**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: Moore County Unit: 0

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001506.002	MOR0C-Demo Moore County	$ -	$ -	$ -	$ 524,549	$ -	$ -	$ -	$ -	$ -	$ 524,549
												$ -
2	N/a	Other Capital Projects	-	-	-	-	-	-	-	-	-	$ -
3		**Totals**	**$ -**	**$ -**	**$ -**	**$ (524,549)**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 524,549**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: Moore County Unit: 3

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001506.002	MOR0C-Demo Moore County	$ -	$ -	$ -	$ -	$ 4,088,373	$ 1,563,879	$ -	$ -	$ -	$ 5,652,252
2	N/a	Other Capital Projects	-	-	-	-	-	-	-	-	-	$ -
3		**Totals**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 4,088,373**	**$ 1,563,879**	**$ -**	**$ -**	**$ -**	**$ 5,652,252**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: Nichols **Unit: 0**

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001560.126	NIC0C-HW Rd. WW Trtment Improv	$ -	$ -	$ 344,666	$ 215,669	$ 948,515	$ 550,009	$ 3,702,252	$ 3,788,057	$ -	$ 9,549,168
2	A.0001560.010	NIC0C-Rpl Demineralizer	521,978	3,624,042	190,376	-	-	-	-	-	-	$ 4,336,396
3	A.0001560.500	NIC Emergent Fund -Steam prod	-	-	-	-	58,310	776,284	1,699,998	699,996	699,996	$ 3,934,584
4	A.0001553.002	NIC0C-N0 Lime Pond Constructio	-	1,393,843	483	-	-	-	-	-	-	$ 1,394,326
5	A.0001560.145	NIC0C-Reline Pond 21 -23919	-	-	-	-	-	-	-	-	938,237	$ 938,237
6	A.0001560.144	NIC0C-Rpl NICtoHAR Potbl Wtr Line -	-	-	-	-	-	-	650,004	-	-	$ 650,004
7	A.0001560.117	NIC0C-Rpl Roof-Turb High	-	-	-	630,173	-	-	-	-	-	$ 630,173
8	A.0001560.118	NIC0C-Rpl Roof-Turb Low	-	-	-	440,469	-	-	-	-	-	$ 440,469
9	A.0001560.090	NIC0C-Rpl Wtr Treatment Contro	148,566	260,959	819	-	-	-	-	-	-	$ 410,344
10	A.0001560.500.001.008	NIC0C-Replace Aux Boiler	-	-	332,875	4,755	-	-	-	-	-	$ 337,630
11	A.0001560.089	NIC0C-Rpl #5 AftrTrtmnt pH Aci	-	-	-	-	-	-	-	10,000	266,838	$ 276,838
12	A.0001560.115	NIC0C-Install Demin Wtr Supply	-	-	-	66,813	195,261	-	-	-	-	$ 262,074
13	A.0001560.134	NIC0C-Install Sprinkler Pivot	-	-	-	-	-	-	-	233,000	-	$ 233,000
14	A.0001560.012	NIC0C-Rpl 1&2 React Sump Pmps	-	145,483	11,252	-	-	-	-	-	-	$ 156,736
												$ -
15	N/a	Other Capital Projects	207,843	112,038	68,442	325,053	-	63,001	-	-	-	$ 776,376
												$ -
15		**Totals**	**$ 878,386**	**$ 5,536,365**	**$ 948,913**	**$ 1,682,933**	**$ 1,202,087**	**$ 1,389,294**	**$ 6,052,254**	**$ 4,731,053**	**$ 1,905,071**	**$ 24,326,356**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: Nichols **Unit: 1**

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001560.500	NIC Emergent Fund -Steam prod	$ -	$ -	$ -		$ 611,813	$ 386,055	$ -	$ -	$ -	$ 997,868
2	A.0001560.136	NIC1C-Rpl U1 Volt Reg	-	-	-	-	5,189	268,950	-	-	-	$ 274,139
3	A.0001560.109	NIC1C-Rpl CT Suction Vault Roof	-	-	208,055	13,666	-	-	-	-	-	$ 221,721
4	A.0001560.500.001.009	NIC1C-Rpl APH Hot Gas Exp Jnts	-	-	121,883	277	-	-	-	-	-	$ 122,160
5	N/a	Other Capital Projects	58,840	102,794	76,332	47,826		26,137	1,000	52,089	-	$ 365,018
6		**Totals**	**$ 58,840**	**$ 102,794**	**$ 406,269**	**$ 61,770**	**$ 617,002**	**$ 681,142**	**$ 1,000**	**$ 52,089**	**$ -**	**$ 1,980,906**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: Nichols Unit: 2

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001560.103	NIC2C-LP Turbine Blade Rpl	$ 1,995,154	$ 22,474	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,017,629
2	A.0001560.121	NIC2C-Rpl Blowdown Piping	-	-	-	5,897	777,762	-	-	-	-	$ 783,658
3	A.0001560.500	NIC Emergent Fund -Steam prod	-	-	-	-	275,933	192,272	-	-	-	$ 468,205
4	A.0001560.004	NIC2C-Rpl HPIP 1st CNTRL STG BLDS	-	362,315	-	-	-	-	-	-	-	$ 362,315
5	A.0001560.107	NIC2C-Rpl Voltage Regulator	63,423	286,939	-	-	-	-	-	-	-	$ 350,361
6	A.0001560.500.001.004	NIC2C-BFP Element Refurb	-	-	280,569	305	-	-	-	-	-	$ 280,874
7	A.0001560.035	NIC2C-Rpl CT Acid Tank	-	-	200,024	28,023	-	-	-	-	-	$ 228,047
8	A.0001560.041	NIC2C-Rpl Bailey Burner Tilts	88,248	66,102	-	-	-	-	-	-	-	$ 154,350
9	A.0001560.106	NIC2C-Rpl Hot Side APH Exp Jnt	-	104,593	-	-	-	-	-	-	-	$ 104,593
												$ -
												$ -
10	N/a	Other Capital Projects	95,681	39,506	110,197	23,994	-	-	30,000	-	-	$ 299,378
11		**Totals**	**$ 2,242,506**	**$ 881,929**	**$ 590,789**	**$ 58,219**	**$ 1,053,695**	**$ 192,272**	**$ 30,000**	**$ -**	**$ -**	**$ 5,049,410**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: Nichols **Unit: 3**

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001560.072	NIC3C-Rewind Generator Stator	$ -	$ -	$ -	$ -	$ -	$ -	$ 534,750	$ 5,882,250	$ -	$ 6,417,000
2	A.0001560.094	NIC3C-CT Structure Unit3	-	-	-	379,835	3,712,133	525,399	-	-	-	$ 4,617,368
3	A.0001560.156	NIC3C Repl Seemed HE Piping - 1630	-	-	-	-	-	-	925,000	1,693,000	-	$ 2,618,000
4	A.0001560.129	NIC3C-Rewind Generator Rotor	-	-	-	-	-	-	156,721	1,703,619	-	$ 1,860,340
5	A.0001560.153	NIC3C-Rpl RH Panels -24143	-	-	-	-	-	-	-	309,000	1,499,000	$ 1,808,000
6	A.0001560.064	NIC3C-N3 Rpl CT Plenum Structu	1,553	1,663,007	-	-	-	-	-	-	-	$ 1,664,560
7	A.0001560.150	NIC3C-Rpl SH Out Header Tubes -241	-	-	-	-	-	-	109,000	796,000	-	$ 905,000
8	A.0001560.147	NIC3C-Rpl Cond Tube Clean Sys -241	-	-	-	-	-	-	858,000	-	-	$ 858,000
9	A.0001560.151	NIC3C-Rpl FWH No4 -24145	-	-	-	-	-	-	110,500	677,000	-	$ 787,500
10	A.0001560.101	NIC3C-N3 Rpl Foxboror FBM's	-	-	-	-	-	-	268,000	487,000	-	$ 755,000
11	A.0001560.149	NIC3C-Rpl Boiler Header Casing -241	-	-	-	-	-	-	503,048	13,000	-	$ 516,048
12	A.0001560.124	NIC3C-Rpl Condenser Inlet Circ Pipe	-	-	-	-	493,360	1,447	-	-	-	$ 494,807
13	A.0001560.123	NIC3C-CT Mechanicals Phase 1	-	-	-	476,617	-	-	-	-	-	$ 476,617
14	A.0001560.148	NIC3C-Rpl CT Switchgear -24197	-	-	-	-	-	-	425,004	-	-	$ 425,004
15	A.0001560.128	NIC3C-Rpl CW Risers at CT	-	-	-	-	395,902	1,463	-	-	-	$ 397,365
16	A.0001560.077	NIC3C-Rpl Stg1&9 Bkts HPIP rtr	320,476	-	-	-	-	-	-	-	-	$ 320,476
17	A.0001560.500	NIC Emergent Fund -Steam prod	-	-	-	-	68,818	175,871	-	-	-	$ 244,689
18	A.0001560.059	NIC3C-Rpl Preheater Cold Baske	244,231	-	-	-	-	-	-	-	-	$ 244,231
19	A.0001560.141	NIC3C-Replace Boiler Ignitors	-	-	-	-	-	-	97,916	137,081	-	$ 234,997
20	A.0001560.152	NIC3C-BFP Mtr Soft Start Relay -239	-	-	-	-	-	-	-	234,996	-	$ 234,996
21	A.0001560.099	NIC3C-N3 CEM's Upgrade	-	-	-	-	231,445	-	-	-	-	$ 231,445
22	A.0001560.133	NIC3C-Rpl FWH Lvl Transmitters	-	-	-	-	161,098	35,425	-	-	-	$ 196,524
23	A.0001560.500.001.006	NIC3C-Rpl CT Cell 2 Mechanicals	-	-	170,561	-	-	-	-	-	-	$ 170,561
24	A.0001560.127	NIC3C-Rpl Boiler Bldg Elevator	-	-	-	-	-	160,000	-	-	-	$ 160,000
25	A.0001560.142	NIC3C-Rpl Control Transmitters	-	-	-	-	-	-	48,016	102,811	-	$ 150,827
26	A.0001560.131	NIC3C-Rpl MS Vent Valve	-	-	-	-	132,241	-	-	-	-	$ 132,241
27	A.0001560.057	NIC3C-E Rpl Cell 1 Fan Mech	-	120,848	10,403	-	-	-	-	-	-	$ 131,252
28	A.0001560.138	NIC3C-Install FD Fan VFD AC	-	-	-	-	116,401	6,000	4,175	-	-	$ 126,576
29	A.0001560.079	NIC3C-Rpl Lab Analyzers	-	-	-	116,636	-	-	-	-	-	$ 116,636
30	A.0001560.132	NIC3C-N3 Rpl UPS Inverter	-	-	-	-	113,101	912	-	-	-	$ 114,013
31	A.0001560.075	NIC3C-Rpl Condenser Exp Joints	105,085	-	-	-	-	-	-	-	-	$ 105,085
												$ -
												$ -
32	N/a	Other Capital Projects	180,040	22,779	95,703	42,709	136,727	194,605	18,900	80,500	-	$ 771,963
26		**Totals**	**$ 851,384**	**$ 1,806,635**	**$ 276,668**	**$ 1,015,797**	**$ 5,561,226**	**$ 1,101,124**	**$ 4,059,030**	**$ 12,116,257**	**$ 1,499,000**	**$ 28,288,120**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: **Plant X** **Unit:** **0**

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001534.500	PLX Emergent Fund -Steam prod	$ -	$ -	$ -	$ -	$ 59,298	$ 576,270	$ 899,745	$ 500,004	$ 500,004	$ 2,535,321
2	A.0001534.040.001.00	PLX0C-Rpl HeaderGasline Insd	1,900,983	39,641	-	-	-	-	-	-	-	$ 1,940,624
3	A.0001534.086	PLX0C-Rpl CT Fill	-	577,608	377,059	-	-	-	-	-	-	$ 954,667
4	A.0001534.157	PLX0C-Rpl 50T-5T Turb Crane-20816	-	-	-	712,686	-	-	-	-	-	$ 712,686
5	A.0001534.204	PLX0C-Floating pump w piping for pi	-	-	-	-	-	710,882	-	-	-	$ 710,882
6	A.0001534.053	PLX0C-Rpl Roof Cover Brk Room	439,350	-	-	-	-	-	-	-	-	$ 439,350
7	A.0001534.063	PLX0C-Boiler Road Paving	-	-	-	-	403,102	-	-	-	-	$ 403,102
8	A.0001534.156	PLX0C-Potable Water-20415	-	-	-	-	-	-	-	-	300,925	$ 300,925
9	A.0001534.168	PLX0C-Rmv air washer and ductwork-2	-	-	-	-	-	-	295,765	-	-	$ 295,765
10	A.0001534.087	PLX0C-Rpl CT 4 Cell Mech PH1	-	252,706	12,227	-	-	-	-	-	-	$ 264,932
11	A.0001534.058	PLX0C - Rpl CT Mech PH 1	254,333	-	-	-	-	-	-	-	-	$ 254,333
12	A.0001534.039	PLX0C-Rpr Road Ent Paving	205,943	678	-	-	-	-	-	-	-	$ 206,621
13	A.0001534.154	PLX0C-Rpl Gen Bkr Failure Relay-210	-	-	-	5,543	158,412	-	-	-	-	$ 163,955
14	A.0001534.172	PLX0C-Rpl Lab Analyzers	-	-	-	138,944	2,438	-	-	-	-	$ 141,382
15	A.0001534.192	PLX0C-Sump piping to pond in tunnel	-	-	-	-	134,400	-	-	-	-	$ 134,400
16	A.0001534.171	PLX0C-Roof Drains Header	-	-	-	51,324	57,999	-	-	-	-	$ 109,323
												$ -
17	N/a	Other Capital Projects	325,908	93,407	31,695	123,445	19,532	255,497	650	-	-	$ 850,134
												$ -
18		**Totals**	**$ 3,126,517**	**$ 964,039**	**$ 420,981**	**$ 1,031,941**	**$ 835,182**	**$ 1,542,649**	**$ 1,196,160**	**$ 500,004**	**$ 800,929**	**$ 10,418,402**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: **Plant X** **Unit:** **1**

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001534.500	PLX Emergent Fund -Steam prod	$ -	$ -	$ -	$ -	$ 31,561	$ 501,269	$ -	$ -	$ -	$ 532,830
2	A.0001534.027	PLX1C-Rpl Emer Diesel Gen	$ 288,710	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 288,710
3	A.0001534.152	PLX1C-Refurbish East Circ Pump	$ 67,990	$ 11,674	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 79,664
												$ -
4	N/a	Other Capital Projects	11,422	48,146	1,426	15,402	(303)	-	-	-	-	$ 76,093
5		**Totals**	**$ 368,122**	**$ 59,819**	**$ 1,426**	**$ 15,402**	**$ 31,258**	**$ 501,269**	**$ -**	**$ -**	**$ -**	**$ 977,297**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: Plant X Unit: 2

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001534.071	PLX2C-Rpl 02 Analyzer Sys	$ 62,917	$ 98,374	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 161,291
2	N/a	Other Capital Projects	46,184	139,926	47,658	48,962	329	-	-	-	-	$ 283,058
3		**Totals**	**$ 109,101**	**$ 238,299**	**$ 47,658**	**$ 48,962**	**$ 329**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 444,349**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: **Plant X** **Unit:** **3**

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001534.209	PLX3C Rpl East Waterwall Tubes	$ -	$ -	$ -	$ -	$ 1,506,894	$ (679,378)	$ -	$ -	$ -	$ 827,516
3	N/a	Other Capital Projects	18,770	106,850	24,912	147,246	16,806	566	-	-	-	$ 315,149
4		**Totals**	**$ 18,770**	**$ 106,850**	**$ 24,912**	**$ 147,246**	**$ 1,523,700**	**$ (678,812)**	**$ -**	**$ -**	**$ -**	**$ 1,142,665**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: Plant X **Unit: 4**

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001534.158	PLX4C-Rpl HE Seamed Piping-20747	$ -	$ -	$ -	$ 638,956	$ 2,566,984	$ -	$ -	$ -	$ -	$ 3,205,941
2	A.0001534.500	PLX Emergent Fund -Steam prod	-	-	-	-	2,316,087	842,024	-	-	-	$ 3,158,111
3	A.0001534.099	PLX4C-Rpl CT Fill & DE Phase 3	-	-	893,420	1,196	-	-	-	-	-	$ 894,617
4	A.0001534.187	PLX4C-Generator Rewedge	-	-	-	24,690	808,224	3,452	-	-	-	$ 836,365
5	A.0001534.164	PLX4C-Upg DCS Opr Stn and CP-19956	-	-	-	-	556,087	-	-	-	-	$ 556,087
6	A.0001534.051	PLX4C-Repl Economizer Header	-	-	-	3,853	511,415	-	-	-	-	$ 515,268
7	A.0001534.098	PLX4C-Rpl CT Fill & DE PH 2	-	449,020	-	-	-	-	-	-	-	$ 449,020
8	A.0001534.007	PLX4C-Rpl CT Fill	435,525	-	-	-	-	-	-	-	-	$ 435,525
9	A.0001534.100	PLX4C-Rpl CT Mech PH3	-	-	399,439	16,061	-	-	-	-	-	$ 415,501
10	A.0001534.101	PLX4C-Rpl CT Mech Ph 2	-	362,816	956	-	-	-	-	-	-	$ 363,772
11	A.0001534.208	PLX4C-Oil BMS Upgrade	-	-	-	-	-	55,582	214,000	-	-	$ 269,582
12	A.0001534.207	PLX4C-BMS Upgrade	-	-	-	-	-	96,062	157,370	-	-	$ 253,432
13	A.0001534.165	PLX4C-CEMS Upgrade-17059	-	-	-	-	-	-	202,443	-	-	$ 202,443
14	A.0001534.200	PLX4C-X4 East BFP element rebuild	-	-	-	-	187,265	-	-	-	-	$ 187,265
15	A.0001534.083	PLX4C-Rpl SH Spray Vlvs	-	121,975	476	-	-	-	-	-	-	$ 122,452
16	A.0001534.197	PLX4C-Repl CT north stairway	-	-	-	-	108,611	-	-	-	-	$ 108,611
												$ -
												$ -
17	N/a	Other Capital Projects	165,501	191,863	151	217,643	202,767	28,391	323,100	100,285	-	$ 1,229,701
												$ -
18		**Totals**	**$ 601,026**	**$ 1,125,675**	**$ 1,294,443**	**$ 902,399**	**$ 7,257,440**	**$ 1,025,511**	**$ 896,913**	**$ 100,285**	**$ -**	**$ 13,203,692**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: **Quay County** **Unit:** **0**

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	N/A	Other Capital Projects	$ -	$ -	$ -	$ -	$ -	$ 19,829	$ -	$ -	$ -	$ 19,829
2		**Totals**	**-**	**-**	**-**	**-**	**-**	**19,829**	**-**	**-**	**-**	**19,829**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: **Quay County** **Unit:** **1**

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	N/A	Other Capital Projects	$ -	$ -	$ -	$ 19,659	$ 67,554	$ -	$ -	$ -	$ -	$ 87,212
2		**Totals**	**-**	**-**	**-**	**19,659**	**67,554**	**-**	**-**	**-**	**-**	**87,212**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: **Quay County** **Unit:** **2**

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001554.003	QUA2C-Rpl Emergency Diesel Generato	$ -	$ -	$ 179,345	$ 37,861	$ -	$ -	$ -	$ -	$ -	$ 217,206
2	N/A	Other Capital Projects	-	-	-	-	-	-	-	-	-	-
3		**Totals**	**$ -**	**$ -**	**$ 179,345**	**$ 37,861**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 217,206**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: **Sagamore** **Unit:** **0**

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001563.001	SPS Wind - Sagamore	$ -	$ -	$ 4,386,567	$ 1,052,786	$ 230,881,142	$ 531,679,094	$ 9,234,456	$ -	$ -	$ 777,234,044
2	A.0001563.501	SAGM Emergent Fund-Other	-	-	-	-	-	-	604,488	509,532	422,196	$ 1,536,216
3	A.0001563.502	SWF-Gearbox Replace	-	-	-	-	-	-	-	-	450,000	$ 450,000
4	A.0001563.503	SWF-Generator Replace	-	-	-	-	-	-	-	-	405,000	$ 405,000
5	A.0001563.504	SWF-Transformer Replace	-	-	-	-	-	-	-	-	140,004	$ 140,004
6	A.0001563.015	Sagamore-Land & Land Rights	-	-	-	-	-	244,000	-	-	-	$ 244,000
												$ -
7	N/A	Other Capital Projects	-	-	-	-	-	-	48,000	-	-	$ 48,000
8		**Totals**	**$ -**	**$ -**	**$ 4,386,567**	**$ 1,052,786**	**$ 230,881,142**	**$ 531,923,093**	**$ 9,886,944**	**$ 509,532**	**$ 1,417,200**	**$ 780,057,264**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: Tolk **Unit: 0**

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001555.500	TOL Emergent Fund -Steam prod	$ -	$ -	$ -	$ -	$ 322,682	$ 1,658,418	$ 3,503,587	$ 1,400,004	$ 1,400,004	$ 8,284,695
2	A.0001555.031	TOL0C-TolkX Water Well Ph 8	-	-	-	364,231	4,212,971	(3,595)	-	-	-	$ 4,573,607
3	A.0001555.278	TOL0C-Drill Horizontal WaterWell	-	276,060	2,608,384	91,024	-	-	-	-	-	$ 2,975,467
4	A.0001555.113	TOL0C-Rpl RR Ties PH 3 of 5	-	17,068	568,108	653,176	-	-	-	-	-	$ 1,238,352
5	A.0001555.276	TOL0C-Dev Barrett H2O Rights	1,199,210	4,690	-	-	-	-	-	-	-	$ 1,203,900
6	A.0001555.093	TOL0C-Rpl RR Ties PH 4 of 5	-	-	533,883	616,210	-	-	-	-	-	$ 1,150,093
7	A.0001555.030	TOL0C-TolkX Water Well Ph 7	-	681,507	449,021	4,195	-	-	-	-	-	$ 1,134,722
8	A.0001555.317	TOL0C-Build Evap Pond 15	1,056,752	15,709	-	-	-	-	-	-	-	$ 1,072,461
9	A.0001555.104	TOL0C-Rpl RR Ties PH 5 of 5	-	-	-	-	1,028,337	(1,500)	-	-	-	$ 1,026,837
10	A.0001555.204	TOL0C-Rpl RRTies Dump LoopPH2	984,262	31,246	-	-	-	-	-	-	-	$ 1,015,507
11	A.0001555.304	TOL0C- Inst Watef Well Ph 11	-	-	-	-	-	-	-	69,000	923,500	$ 992,500
12	A.0001555.114	TOL0C-Rpl RR Ties PH 2 of 5	799,524	140,038	-	-	-	-	-	-	-	$ 939,562
13	A.0001555.042	TOL0C-TolkX Water Well Ph 9	-	-	-	-	-	-	619,000	-	-	$ 619,000
14	A.0001555.071	TOL0C-W SBAC Overhaul 2018	-	-	-	43,285	552,345	-	-	-	-	$ 595,629
15	A.0001555.305	TOL0C-Inst Water Well Ph 10	-	-	-	-	-	-	-	530,500	-	$ 530,500
16	A.0001555.500.001.009	TOL0C-S SBAC OVH 2017-22573	-	-	523,554	-	-	-	-	-	-	$ 523,554
17	A.0001555.068	TOL0C-W SBAC Overhaul 2015	493,873	14,065	-	-	-	-	-	-	-	$ 507,938
18	A.0001555.217	TOL0C-Rail Ballast & Alignmnt	-	-	-	-	505,459	-	-	-	-	$ 505,459
19	A.0001555.351	TOL0C-Rpl control room bldg roof	-	-	489,763	-	-	-	-	-	-	$ 489,763
20	A.0001555.320	TOL0C-Ins Pig Launch-Rec Eqpt	410,615	9,447	-	-	-	-	-	-	-	$ 420,062
21	A.0001555.211	TOL0C-S SBAC Overhaul	-	-	-	-	-	-	420,000	-	-	$ 420,000
22	A.0001555.148	TOL0C-Rpl Water Treatment Bldg	-	-	-	-	-	401,019	-	-	-	$ 401,019
23	A.0001642.001	TOL0C-ACI Mercury Reduction	391,723	-	-	-	-	-	-	-	-	$ 391,723
24	A.0001555.069	TOL0C-N SBAC Overhaul 2016	-	375,124	14,643	-	-	-	-	-	-	$ 389,766
25	A.0001555.591	TOL0C-S SBAC	-	-	-	-	-	-	-	385,000	-	$ 385,000
26	A.0001555.252	TOL0C-Rpl Receiving WH Roof	-	-	-	336,461	-	-	-	-	-	$ 336,461
27	A.0001555.413	TOL0C-Rpl TK09 oil circuit breaker	-	-	-	-	4,512	331,262	-	-	-	$ 335,774
28	A.0001555.415	TOL0C-Inst Secondary RO Feed Supply	-	-	-	-	-	256,826	-	-	-	$ 256,826
29	A.0001555.315	TOL0C-Inst MgO FeederReact1&2	47,225	189,550	-	-	-	-	-	-	-	$ 236,775
30	A.0001555.314	TOL0C-Inst EhncdEvapSyyWWP13	232,600	2,680	-	-	-	-	-	-	-	$ 235,280
31	A.0001555.120	TOL0C-Inst Perimet FencePonds	-	-	-	229,285	-	-	-	-	-	$ 229,285
32	A.0001555.248	TOL0C-Rpl Water Well Pmp 2023	-	-	-	-	-	-	-	-	190,000	$ 190,000
33	A.0001555.246	TOL0C-Rpl Water Well Pmp 2021	-	-	-	-	-	-	190,000	-	-	$ 190,000
34	A.0001555.247	TOL0C-Rpl Water Well Pmp 2022	-	-	-	-	-	-	-	190,000	-	$ 190,000
35	A.0001555.245	TOL0C-Rpl Water Well Pmp 2020	-	-	-	-	-	188,611	-	-	-	$ 188,611
36	A.0001555.058	TOL0C-Rpl Water Well Pmp 2016	-	149,137	-	-	-	-	-	-	-	$ 149,137
37	A.0001555.500.001.031	TOL0C-Inst SwingGates&LadderProt	-	-	-	148,849	-	-	-	-	-	$ 148,849
38	A.0001555.060	TOL0C-Rpl Water Well Pmp 2018	-	-	-	143,842	1,714	-	-	-	-	$ 145,556
39	A.0001555.212	TOL0C-Rpl Water Well Pmp 2019	-	-	-	-	139,364	-	-	-	-	$ 139,364
40	A.0001555.133	TOL0C-Rpl Co-poly Skid and Pip	129,468	-	-	-	-	-	-	-	-	$ 129,468
41	A.0003000.684.001.002	TOL0C- Tolk Tool Blanket	-	-	21,277	97,614	-	-	-	-	-	$ 118,891
42	A.0001555.588	TOL0C- Install Gas Chromatograph	-	-	-	40,748	14,100	61,263	-	-	-	$ 116,111
43	A.0001555.057	TOL0C-Rpl Water Well Pmp 2017	-	-	115,322	(0)	-	-	-	-	-	$ 115,322
44	A.0001555.299	TOL0C-ICCP Replacement-Tolk	-	-	-	-	102,130	-	-	-	-	$ 102,130
45	A.0001555.414	TOL0C-Startup A-B Transformer DGA	-	-	-	-	4,468	97,454	-	-	-	$ 101,922
												$ -
46	N/a	Other Capital Projects	438,753	253,270	125,715	201,260	357	98,430	313,272	-	134,091	$ 1,565,148
												$ -
47		**Totals**	**$ 6,184,005**	**$ 2,159,590**	**$ 5,449,671**	**$ 2,970,177**	**$ 6,888,439**	**$ 3,088,188**	**$ 5,045,859**	**$ 2,574,504**	**$ 2,647,595**	**$ 37,008,027**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: Tolk **Unit: 1**

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001598.001	TOL1C-Synchronous Condenser	$ -	$ -	$ 13,250	$ 407,133	$ 2,628,252	$ 6,921,627	$ -	$ -	$ -	$ 9,970,262
2	A.0001555.443	TOL1C-Gen Rotor Rewind -23949	-	-	-	-	-	-	-	479,387	2,871,909	$ 3,351,296
3	A.0001598.002	TOL2C-Synchronous Condenser	-	-	-	-	-	2,144,603	930,000	-	-	$ 3,074,603
4	A.0001555.357	TOL1C-Nozzleblock Modification	-	-	-	-	-	-	-	577,500	1,572,500	$ 2,150,000
5	A.0001555.011	TOL1C-Rpl Bull Nose	1,918,136	4	-	-	-	-	-	-	-	$ 1,918,139
6	A.0001555.433	TOL1C-Rpl RH Loops	-	-	-	-	98,528	1,794,650	-	-	-	$ 1,893,179
7	A.0001555.012	TOL1C-Rpl RH Pendants	1,861,198	-	-	-	-	-	-	-	-	$ 1,861,198
8	A.0001555.088	TOL1C-Rpl Baghouse Bags 2018	-	-	1,110,659	355,294	1,500	11,181	-	-	-	$ 1,478,634
9	A.0001555.500	TOL Emergent Fund -Steam prod	-	-	-	-	1,033,535	432,361	-	-	-	$ 1,465,897
10	A.0001555.500.001.023	TOL1C-Rpl MillF MainVrt Shaft	-	-	-	1,330,538	-	-	-	-	-	$ 1,330,538
11	A.0001555.218	TOL1C-Rpr Mill1A GearbxGrind S	1,322,620	15	-	-	-	-	-	-	-	$ 1,322,635
12	A.0001555.257	TOL1C-UpgDCSOprStn& CntrlProc	-	-	699,705	361,621	628	-	-	-	-	$ 1,061,954
13	A.0001555.221	TOL1C-Rpr MillD GearBx & Jrnl	-	-	-	209,887	688,030	45,766	-	-	-	$ 943,684
14	A.0001555.264	TOL1C-RbldMill FGearBx&Jrnls	280,140	660,673	-	(0)	-	-	-	-	-	$ 940,813
15	A.0001555.223	TOL1C-Rpr MillC GearBx & Jrnls	-	-	431,140	494,739	-	-	-	-	-	$ 925,879
16	A.0001555.597	TOL1C-Rpl Coal Pipe & Elbows	-	-	431,663	405,100	(19,985)	42,470	-	-	-	$ 859,248
17	A.0001555.047	TOL1C-Repl CT DE s	802,533	-	-	-	-	-	-	-	-	$ 802,533
18	A.0001555.219	TOL1C-Rpr MillB GearBx & Jrnl	-	-	794,263	8,128	(802)	-	-	-	-	$ 801,589
19	A.0001555.043	TOL1C-Rpl Burner Assemblies	-	-	295,828	338,489	(9,648)	24,097	-	-	-	$ 648,765
20	A.0001555.213	TOL1C-Rpl Baghouse Bags 2019	-	-	-	380,183	251,017	-	-	-	-	$ 631,201
21	A.0001555.292	TOL1C-E-T1FMill Rpl Main VerSft	-	110,306	511,816	443	-	-	-	-	-	$ 622,565
22	A.0001555.034	TOL1C -Rpl CT Mech Ph 2	625,633	(55,098)	-	-	-	-	-	-	-	$ 570,535
23	A.0001555.090	TOL1C-Rpl Baghouse Bags 2017	-	-	332,142	232,272	(896)	-	-	-	-	$ 563,518
24	A.0001555.500.001.020	TOL1C-Rpl CT Partition Walls	-	-	-	544,248	-	-	-	-	-	$ 544,248
25	A.0001555.040	TOL1C-Rpl Cold APH Basket	486,606	-	-	-	-	-	-	-	-	$ 486,606
26	A.0001555.209	TOL1C-Inst Tubine OS Protect	-	-	-	-	-	-	-	214,581	256,450	$ 471,031
27	A.0001555.035	TOL1C -Rpl CT Mech Ph 3	444,020	18,188	-	-	-	-	-	-	-	$ 462,208
28	A.0001555.049	TOL1C-Inst Tubine OS Protect	-	-	-	-	-	-	434,000	-	-	$ 434,000
29	A.0001555.421	TOL1C-Rpl TK02 oil circuit breaker	-	-	-	-	12,835	389,102	-	-	-	$ 401,937
30	A.0001555.029	TOL1C-Rpl Burner Ignitors	364,927	-	-	-	-	-	-	-	-	$ 364,927
31	A.0001555.366	TOL1C-T1 #1FWH valves	-	-	13,270	318,908	1,949	-	-	-	-	$ 334,127
32	A.0001555.422	TOL1C-Rpl UPS Inverters	-	-	-	-	-	326,909	-	-	-	$ 326,909
33	A.0001555.426	TOL1C-Rewedge Generator Stator	-	-	-	-	-	-	-	281,000	-	$ 281,000
34	A.0001555.285	TOL1C- E-Rpl ACW Pipe	-	262,744	360	-	-	-	-	-	-	$ 263,104
35	A.0001555.077	TOL1C - Inst PA Fan LubOil Pkg	254,186	-	-	-	-	-	-	-	-	$ 254,186
36	A.0001555.202	TOL1C-Rpl Main CircExp Joints	247,360	-	-	-	-	-	-	-	-	$ 247,360
37	A.0001555.306	TOL1C-CEMS Upgrade	-	-	219,208	-	-	-	-	-	-	$ 219,208
38	A.0001555.274	TOL1C-Rpl ControlStg TrbBlds	210,654	-	-	-	-	-	-	-	-	$ 210,654
39	A.0001555.189	TOL1C-Upgrade Lab Sample Sys	66,727	138,473	-	-	-	-	-	-	-	$ 205,200
40	A.0001555.263	TOL1C-Rbld Mill D Grind Sect	-	-	-	-	-	-	-	200,000	-	$ 200,000
41	A.0001555.500.001.012	TOL1C-Rpl MDBFP DischargeVlv	-	-	2,407	191,755	-	-	-	-	-	$ 194,162
42	A.0001555.595	TOL1C-Cooling Tower Bypass	-	-	61,946	122,862	-	-	-	-	-	$ 184,808
43	A.0001555.288	TOL1C-E-Rewind S Circulating WtrPmp	-	182,624	-	-	-	-	-	-	-	$ 182,624
44	A.0001555.420	TOL1C-A B xfmr X winding bushings	-	-	-	-	14,195	155,467	-	-	-	$ 169,662
45	A.0001555.254	TOL1C-Rpl SSC Chain 2018	-	-	-	165,183	393	618	-	-	-	$ 166,194
46	A.0001555.500.001.013	TOL1C-Rpl Boiler Frt Elevator	-	-	123,122	32,822	-	-	-	-	-	$ 155,943
47	A.0001555.097	TOL1C-Rpl TD BFP Element	-	-	-	-	-	-	-	150,000	-	$ 150,000
48	A.0001555.594	TOL1C-Int Online Vib Mntr Sys	-	-	60,615	71,726	2,349	-	-	-	-	$ 134,689
49	A.0001555.083	TOL1C -Rpl Diesel Gen Controls	126,359	-	2	-	-	-	-	-	-	$ 126,361
50	A.0001555.596	TOL1C-Rpl Lab Sample System	-	-	104,146	20,243	-	-	-	-	-	$ 124,389
51	A.0001555.272	TOL1C-Rpl Coal Flow Cntr Vlvs	120,816	-	-	-	-	-	-	-	-	$ 120,816
52	A.0001555.500.001.017	TOL1C- Rpl West Main Stm Sfty	-	-	120,613	(3,768)	-	-	-	-	-	$ 116,845
53	A.0001555.500.001.016	TOL1C-Rpl BlrDrm E Center Sfty	-	-	83,797	24,927	-	-	-	-	-	$ 108,724
54	A.0001555.239	TOL1C-Replace SSC Chain	107,443	-	-	-	-	-	-	-	-	$ 107,443
55	A.0001555.241	TOL1C-Rpl GSU XFMR HV Bushing	107,204	-	-	-	-	-	-	-	-	$ 107,204
56	A.0001555.358	TOL1C-RPL Boiler Sump Line	-	-	55,967	51,547	(469)	-	-	-	-	$ 107,045
57	A.0001555.199	TOL1C-Rpl TripperSmp Dsch Line	105,563	1,137	-	-	-	-	-	-	-	$ 106,701
58	A.0001555.500.001.019	TOL1C-Rwd W Blr Circ Pmp Mtr	-	-	-	105,776	-	-	-	-	-	$ 105,776
												$ -
59	N/a	Other Capital Projects	261,978	174,720	44,332	120,519	154,437	635	317,734	-	-	$ 1,074,354
57		**Totals**	**$ 9,714,103**	**$ 1,493,787**	**$ 5,510,249**	**$ 6,290,573**	**$ 4,855,848**	**$ 12,289,486**	**$ 1,681,734**	**$ 1,902,468**	**$ 4,700,859**	**$ 48,439,107**

Southwestern Public Service Company

Fossil Production Plant Capital Costs (Historical, Present, Projected)

Plant Name: Tolk **Unit: 2**

Line No.	Project Number	Project Title	Historical Year 5	Historical Year 4	Historical Year 3	Historical Year 2	Historical Year 1	Present Year 0	Projected Year 1	Projected Year 2	Projected Year 3	Total
1	A.0001598.002	TOL2C-Synchronous Condenser	$ -	$ -	$ -	$ 300,090	$ 2,306,418	$ 4,141,476	$ -	$ -	$ -	$ 6,747,983
2	A.0001555.369	TOL2C-Nozzleblock Modification	-	557,785	1,979,414	-	-	-	-	-	-	$ 2,537,200
3	A.0001555.500.001.02	TOL2C- Rewind Generator Rotor	-	-	-	2,354,222	-	-	-	-	-	$ 2,354,222
4	A.0001555.226	TOL2C-Rpl Mill E Gearbx & Jour	-	-	-	1,056,084	592,660	378,365	-	-	-	$ 2,027,110
5	A.0001555.269	TOL2C-Rp RHOutletTerminalTbs	-	76,212	1,932,690	-	-	-	-	-	-	$ 2,008,902
6	A.0001555.091	TOL2C-Rpl Baghouse Bags 2017	-	114,257	1,357,307	-	-	-	-	-	-	$ 1,471,564
7	A.0001555.300	TOL2C-Prch & Install New GSU XFMR	-	-	-	(6,194)	1,220,273	(114,481)	-	-	-	$ 1,099,598
8	A.0001555.261	TOL2C-UpgDCSOprStn& CntrlProc	-	513,616	440,603	-	-	-	-	-	-	$ 954,219
9	A.0001555.446	TOL2C-Rpl ID Fan VFDs -23950	-	-	-	-	-	-	-	920,000	-	$ 920,000
10	A.0001555.220	TOL2C-Rpr MillA GearBx Journal	(75)	830,652	-	-	-	-	-	-	-	$ 830,577
11	A.0001555.373	TOL2C-Rpl coal elbows mill E n F	-	238,800	576,049	-	-	-	-	-	-	$ 814,849
12	A.0001555.296	TOL2C-Rpl Main Pwr Transformer	-	-	-	1,996,897	(1,521,173)	280,477	-	-	-	$ 756,202
13	A.0001555.258	TOL2C-Rbld T2 Mill B Gearbox	-	-	-	-	-	724,480	10,000	-	-	$ 734,480
14	A.0001555.021	TOL2C - Repl Cold APH Bskts	-	265,987	449,449	-	-	-	-	-	-	$ 715,436
15	A.0001555.222	TOL2C-Rpl MillC GearBx & Journ	-	106,083	566,593	20,876	-	-	-	-	-	$ 693,552
16	A.0001555.379	TOL2C-T2 Burners 2020	-	-	-	-	-	673,082	-	-	-	$ 673,082
17	A.0001555.372	TOL2C-T2 Burners 2017	-	1,519	666,132	-	-	-	-	-	-	$ 667,651
18	A.0001555.092	TOL2C-Rpl Baghouse Bags 2016	-	659,430	-	-	-	-	-	-	-	$ 659,430
19	A.0001555.190	TOL2C -Rpl CT Mech PH 2	-	655,269	-	-	-	-	-	-	-	$ 655,269
20	A.0001555.089	TOL2C-Rpl Baghouse Bags 2018	-	-	-	597,231	-	-	-	-	-	$ 597,231
21	A.0001555.033	TOL2C -Rpl CT Mech PH 3	-	234,715	339,160	-	-	-	-	-	-	$ 573,874
22	A.0001555.428	TOL2C-Rpl TK32 oil circuit breaker	-	-	-	-	11,740	528,939	-	-	-	$ 540,678
23	A.0001555.232	TOL2C-Rpl W. HPBP Pump	-	122,670	320,856	-	-	-	-	-	-	$ 443,526
24	A.0001555.224	TOL2C-Rpr MillF GearBx & Journ	-	-	-	-	442,449	(73,020)	-	-	-	$ 369,429
25	A.0001555.368	TOL2C-Rpl cntrl stg blades	-	33,623	309,686	-	-	-	-	-	-	$ 343,309
26	A.0001555.500	TOL Emergent Fund -Steam prod	-	-	-	-	70,093	225,815	-	-	-	$ 295,909
27	A.0001555.500.001.02	TOL2C-Gen Stator Rewedge	-	-	-	293,947	-	-	-	-	-	$ 293,947
28	A.0001555.194	TOL2C-Replace SSC Chain	-	-	-	-	-	293,538	-	-	-	$ 293,538
29	A.0001555.429	TOL2C-Rpl UPS Inverters	-	-	-	-	-	275,846	-	-	-	$ 275,846
30	A.0001555.307	TOL2C-CEMS Upgrade	-	-	210,426	-	-	-	-	-	-	$ 210,426
31	A.0001555.136	TOL2C-Rpl Diesel Gen Controls	-	-	-	-	-	206,239	-	-	-	$ 206,239
32	A.0001555.370	TOL2C-RPL Boiler Sump Line T2	-	-	105,253	97,126	1	-	-	-	-	$ 202,380
33	A.0001555.260	TOL2C-Rpl SSC Chain 2017	-	-	201,873	-	-	-	-	-	-	$ 201,873
34	A.0001555.268	TOL2C-Rbld Mill D Grind Sect	-	-	-	-	-	-	200,000	-	-	$ 200,000
35	A.0001555.600	TOL2C-Mill A Grinding Section	-	-	-	-	-	-	-	-	200,000	$ 200,000
36	A.0001555.018	TOL2C-Rpl Blr H20 Sample Sys	39,505	149,526	-	-	-	-	-	-	-	$ 189,031
37	A.0001555.412	TOL2C-Rpl Ash Silo Scale	-	-	-	-	-	-	157,552	800	-	$ 158,352
38	A.0001555.376	TOL2C-Rpl lab sample system	-	26,680	119,864	-	-	-	-	-	-	$ 146,544
39	A.0001555.500.001.00	TOL2C-Rewind C CircPmp Mtr-22511	-	-	134,738	-	-	-	-	-	-	$ 134,738
40	A.0001555.345	TOL2C-Install Mercury Monitor	132,059	-	-	-	-	-	-	-	-	$ 132,059
41	A.0001555.192	TOL2C-Rbld TD BFP Limitorque	-	123,612	-	-	-	-	-	-	-	$ 123,612
42	A.0001555.599	TOL2C-Inst Online Vib Mntr Sys	-	-	-	119,981	-	-	-	-	-	$ 119,981
43	A.0001555.242	TOL2C-Rpl 2C Coal Mill Bowl	118,356	-	-	-	-	-	-	-	-	$ 118,356
44	A.0001555.293	TOL2C-Rpl TDBFP DischVlvInternals	-	1,576	111,397	-	-	-	-	-	-	$ 112,973
45	A.0001555.295	TOL2C-E-Rpl HPBP Hdr 22278	-	-	109,633	-	-	-	-	-	-	$ 109,633
46	A.0001555.500.001.00	TOL2C-Rewind W CircPmp Mtr-22512	-	-	107,609	-	-	-	-	-	-	$ 107,609
47	A.0001555.200	TOL2C-Rpl TripperSmp Dsch Line	105,091	1,764	-	-	-	-	-	-	-	$ 106,855
48	A.0001555.294	TOL2C-E-Rpl MDBFP Disch Vlv	-	-	101,155	-	-	-	-	-	-	$ 101,155
												$ -
												$ -
49	N/a	Other Capital Projects	156,668	139,898	268,304	124,647	-	3,895	100,734	45,250	34,750	$ 874,146
												$ -
50		**Totals**	**$ 551,605**	**$ 4,853,675**	**$ 10,408,189**	**$ 6,954,907**	**$ 3,122,462**	**$ 7,544,651**	**$ 468,286**	**$ 966,050**	**$ 234,750**	**$ 35,104,575**

Southwestern Public Service Company

Nuclear Unit Outage

Schedules:

H-6.1	Nuclear Unit Outage
H-6.1a	Nuclear Unit Outage History
H-6.1b	Nuclear Unit Outage Data
H-6.1c	Nuclear Unit Outage Planning

The H-6.1 schedules are not applicable to Southwestern Public Service Company ("SPS") because SPS does not own or operate nuclear facilities.

Southwestern Public Service Company

Fossil Unit Forced Outage History

Line No.	Unit Name	Date Started	Date Completed	Outage Duration (Hours)	Reason For Outage	Event Type
1	Plant X 1	9/16/19	10/1/19	341.25	**Station service startup transformer** Start up transformer low voltage issues during change of unit online/offline status.	U1
2	Cunningham 2	9/17/19	12/3/19	1,845.10	**Waterwall (Furnace wall)** Tube leaks. Loss of Drum level and pressure.	U1
3	Maddox 3	9/17/19	10/22/19	838.35	**Switchyard circuit breakers - (not outside management control)** Remove and replace u940 and put up fence	MO
4	Jones 2	9/23/19	11/14/19	1,266.98	**Other lube oil system problems** #1 Bearing vibration and temperature problems	U1
5	Cunningham 1	9/24/19	10/16/19	541.28	**Waterwall (Furnace wall)** Furnace Waterwall tube leak.	U1
6	Plant X 3	9/30/19	11/30/19	1,441.02	**Station service startup transformer** Substation outage requires unit be offline	MO
7	Cunningham 3	10/1/19	10/2/19	12.05	**Cooling and seal air system B** Rotor Air Cooler tripped.	U1
8	Plant X 1	10/1/19	12/31/19	2,209.02	**Station service startup transformer** Start up transformer low voltage issues during change of unit online/offline status	MO
9	Plant X 4	10/2/19	10/2/19	2.48	**Deaerator (including level control)** Unable to maintain Deaerator level, loss of condensate pump variable drive prime	U1
10	Harrington 2	10/3/19	10/3/19	0.20	**Operator error** High Drum level trip	U1
11	Harrington 1	10/4/19	10/4/19	8.87	**Drums and drum internals (single drum only)** West Dry Vent on Steam drum has a split in valve causing steam leak.	MO
12	Maddox 1	10/4/19	10/17/19	311.62	**Other boiler tube leaks** Boiler Tube Leaks	U1
13	Tolk 1	10/4/19	10/4/19	8.32	**Generator metering devices** Generator "A" phase has possible ground, maintenance inspection -"Failed resistor on the Potential Transformer & Current Transformer caused a false grounding indication."	MO
14	Jones 3	10/5/19	10/6/19	14.00	**NOx analyzer problems** NOx analyzer failed	U1
15	Harrington 2	10/6/19	10/6/19	0.47	**Coal conveyors and feeders** Boiler tripped wet coal in feeders	U1
16	Cunningham 4	10/11/19	10/11/19	2.75	**NOx analyzer problems** NOX reaching limits. Shutdown unit.	U1
17	Harrington 3	10/15/19	10/15/19	3.07	**Hydraulic system pipes and valves** Unit was removed from line to make repairs to an Electro-Hydraulic leak on right Throttle Valves	U2
18	Harrington 2	10/16/19	10/18/19	43.33	**Other boiler inspections** The unit was removed from service to cut a section of water wall tube out of service for an inspection to determine actions for the 2020 planned outage	U2
19	Maddox 2	10/17/19	10/19/19	42.48	**Blade Path Temperature Spread A** Blade Path Temperature problems	U1

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Fossil Unit Forced Outage History

Line No.	Unit Name	Date Started	Date Completed	Outage Duration (Hours)	Reason For Outage	Event Type
20	Cunningham 1	10/18/19	10/18/19	1.18	**Other oil and gas fuel supply problems (see codes 0360-0410 for burner problems)** Gas Sensing Line problem.	U1
21	Cunningham 1	10/18/19	10/26/19	189.93	**480-volt circuit breakers** Air Preheater breaker problems	U1
22	Cunningham 4	10/19/19	10/28/19	200.52	**Combustion inspection (CI)** Combustion Inspection	MO
23	Nichols 2	10/21/19	11/1/19	281.80	**Windbox expansion joints** Maintenance outage to repair windbox	MO
24	Harrington 1	10/25/19	10/25/19	11.10	**Boiler drum gage glasses/level indicator** Unit failed a start up due to drum level issues. There was some connections refitted on the transmitter tubing and an Fieldbus Module replaced to resolve the issues	SF
25	Cunningham 4	10/31/19	11/3/19	59.08	**Combustion inspection (CI)** Basket #10. Support housing Air Leak.	MO
26	Jones 3	10/31/19	10/31/19	2.95	**Lack of fuel (coal mines; gas lines; etc.) where the operator is not in control of contracts; supply lines; or delivery of fuels** Loss Red River line pressure to plant. (Issue with supplier's valve)	U1
27	Jones 4	10/31/19	10/31/19	1.95	**Lack of fuel (coal mines; gas lines; etc.) where the operator is not in control of contracts; supply lines; or delivery of fuels** Loss Red River line pressure to plant. (Issue with supplier's valve)	U1
28	Jones 3	11/2/19	11/2/19	0.78	**Gas turbine vibration** "Turb/Gen XHI vibration" went high	SF
29	Cunningham 1	11/5/19	11/25/19	474.82	**Waterwall (Furnace wall)** Boiler Tube Leak: Furnace Waterwall	U1
30	Harrington 3	11/6/19	11/7/19	27.95	**Maintenance personnel error** Unit was tripped when the breaker E4H was tripped. The breaker was accidently manually tripped by an electrician while trouble shooting the diesel generator breaker and relays	U1
31	Nichols 3	11/6/19	11/6/19	6.43	**Boiler; miscellaneous** Nichols Unit 3 Immediate outage due to loss of boiler pilot air	U1
32	Harrington 3	11/7/19	11/8/19	9.03	**Feedwater regulating (boiler level control) valve** The startup failure was caused when the unit could not continue the startup due to the startup feedwater valve actuator failed	SF
33	Cunningham 4	11/11/19	11/11/19	5.38	**Turning gear and motor C** Loss of Turning Gear	SF
34	Jones 4	11/12/19	11/12/19	2.80	**Lack of fuel (coal mines; gas lines; etc.) where the operator is not in control of contracts; supply lines; or delivery of fuels** Red River Suppliers Gas Block Valves Did Not Open and Lost Line Pressure	U1
35	Jones 2	11/16/19	11/19/19	74.02	**Tubes** Boiler Tube Leak	U1

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Fossil Unit Forced Outage History

Line No.	Unit Name	Date Started	Date Completed	Outage Duration (Hours)	Reason For Outage	Event Type
36	Harrington 2	11/17/19	11/18/19	19.48	**Generator voltage control** Unit tripped off line when the automatic voltage regulator manually tripped the unit generator.	U1
37	Harrington 2	11/18/19	11/18/19	0.32	**Operator error** Unit was tripped on a start up when the operator was removing the feedwater from the startup feedwater valve to the #3 heater. Unit was lost on high drum level	U1
38	Jones 1	11/18/19	11/19/19	12.08	**High pressure heater tube leaks** #1 High Pressure heater torsion ring head leak	U1
39	Tolk 2	11/19/19	11/22/19	65.23	**Feedwater Booster Pump** Maintenance outage to repair center high pressure booster pump and cooling tower pH probe	MO
40	Cunningham 3	11/21/19	11/21/19	1.27	**Ignition system A** Ignitor issues	SF
41	Plant X 3	11/30/19	12/31/19	768.02	**Waterwall (Furnace wall)** Unit retirement approval requested due to discovery work on boiler	U1
42	Cunningham 4	12/2/19	12/2/19	9.95	**Other miscellaneous gas turbine problems** Gas Turbine turning gear electrical issues.	U1
43	Cunningham 3	12/4/19	12/4/19	4.53	**Other miscellaneous gas turbine problems** Work on Thermocouples and Calibrate Gas Detectors	MO
44	Maddox 2	12/4/19	12/12/19	186.63	**Other miscellaneous gas turbine problems** Generator Resistance Temperature Detector Invalid.	U1
45	Cunningham 3	12/8/19	12/8/19	9.47	**Turning gear and motor C** Turning gear wouldn't properly engage	U1
46	Cunningham 3	12/8/19	12/8/19	6.75	**Turning gear and motor C** Allow time for Unit to be on gear	U1
47	Jones 2	12/9/19	12/12/19	76.45	**Tubes** Boiler Tube Leak	U1
48	Maddox 3	12/9/19	12/9/19	10.80	**Lube oil system - general** Lube Oil Temperature too cool to start unit.	U1
49	Nichols 2	12/11/19	12/11/19	3.00	**Turbine overspeed trip test** Nichols 2 Overspeed test	MO
50	Jones 3	12/12/19	12/14/19	41.10	**Gas fuel system A** Red River Gas Safety Valve Issues	U1
51	Jones 4	12/12/19	12/14/19	41.10	**Fuel piping and valves A** Red River Gas Relief Valve Issues	U1
52	Maddox 2	12/12/19	12/12/19	0.83	**Other miscellaneous gas turbine problems** Unit tripped on 86G Lockout	SF
53	Maddox 2	12/12/19	12/31/19	466.18	**Other miscellaneous gas turbine problems** 86G relay locked out. Unit tripped.	U1
54	Harrington 2	12/14/19	12/14/19	5.25	**Generator voltage control** Unit was tripped when the Automatic Voltage Regulator failed.	U1
55	Cunningham 2	12/15/19	12/31/19	404.48	**Waterwall (Furnace wall)** Tube Leaks.	U1

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Fossil Unit Forced Outage History

Line No.	Unit Name	Date Started	Date Completed	Outage Duration (Hours)	Reason For Outage	Event Type
56	Plant X 4	12/15/19	12/15/19	1.82	**Feedwater pump drive - motor** East Boiler Feed pump tripped due to faulty wire, lost vacuum do to loss of cooling tower fans.	U1
57	Plant X 4	12/15/19	12/16/19	24.35	**Other 4160-volt problems** Upon further investigations we had a faulted and grounded cable between 4X15 4160V Breaker and the 4160/480v transformer	U1
58	Plant X 4	12/17/19	12/18/19	30.65	**Main transformer** Inspect Main Transformer	U1
59	Cunningham 4	12/18/19	12/18/19	3.67	**Ignition system A** Ignition Failed	SF
60	Cunningham 4	12/18/19	12/18/19	1.15	**Ignition system A** Ignition failed	SF
61	Cunningham 4	12/18/19	12/18/19	3.07	**Ignition system A** Ignition failed	U1
62	Harrington 2	12/18/19	12/19/19	18.28	**Other miscellaneous piping system problems** Unit was removed from line to make repairs on a main steam sample line coming off of the mixing chamber.	MO
63	Nichols 3	12/19/19	12/19/19	2.00	**Turbine overspeed trip test** Over speed test and calibrate Main Steam Stop Valve	MO
64	Plant X 4	12/20/19	12/20/19	1.72	**Other high pressure heater problems (see condensate system for LP and IP heater codes)** Unit taken offline to repair High Pressure feedwater heater safety relief valves.	U2
65	Plant X 4	12/23/19	12/31/19	209.57	**4160-volt circuit breakers** Outage to repair wiring on the 4160 volt breaker bus.	MO
66	Cunningham 4	12/30/19	12/31/19	22.47	**Data acquisition system problems** Computer System frozen. Unit is offline. No trip or shutdown	U1
67	Cunningham 2	1/1/20	1/7/20	157.75	**Waterwall (Furnace wall)** Tube Leak/s carryover from 2019	U1
68	Maddox 2	1/1/20	1/3/20	63.83	**Other miscellaneous gas turbine problems** 86G relay locked out. Unit won't go online.	U1
69	Plant X 1	1/1/20	1/22/20	515.72	**Station service startup transformer** Start up transformer low voltage issues during change of unit online/offline status	MO
70	Plant X 2	1/1/20	1/21/20	491.27	**Switchyard circuit breakers - external** Substation outage work requires unit to be offline	MO
71	Plant X 3	1/1/20	3/3/20	1,488.00	**Waterwall (Furnace wall)** Continued event from last year.	U1
72	Cunningham 4	1/3/20	1/3/20	5.88	**Lube oil system - general** Repair Oil Accumulation on Oil Tank	U1
73	Harrington 2	1/5/20	1/6/20	15.52	**IP Extraction steam valves** Unit was removed from service to make repairs to the #4 Feedwater Heater Extraction heater side non return valve. The valve experienced a failed gasket.	U1

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Fossil Unit Forced Outage History

Line No.	Unit Name	Date Started	Date Completed	Outage Duration (Hours)	Reason For Outage	Event Type
74	Maddox 2	1/6/20	1/6/20	3.53	**Inlet air vanes / nozzles** Adjust Inlet Guide Vanes	U1
75	Tolk 1	1/6/20	1/6/20	7.97	**Waterwall (Furnace wall)** Maintenance outage to get boiler tube samples, Tolk management cancelled this outage waiting until spring mini to take samples.	MO
76	Cunningham 4	1/8/20	1/11/20	87.25	**Thrust Bearing** Thrust Bearing Thermocouple leaking oil	U1
77	Harrington 3	1/8/20	1/9/20	38.92	**Convection pass wall (water tubes only)** Unit was removed from service to make repairs to a water wall tube leak on the 5th floor #3 corner	MO
78	Harrington 3	1/11/20	1/14/20	79.77	**Heater drain piping** Unit was removed from service to make repairs to the high pressure heater drains pump discharge line. The line failed at an elbow at the Deaerator Heater.	U1
79	Tolk 2	1/13/20	1/16/20	68.25	**Bottom ash rotary (drag chain type) conveyor and motor** Submerged scraper conveyor derailed - clean out/inspection/repairs	U1
80	Cunningham 3	1/14/20	1/14/20	5.95	**Ignition system A** Repair Ignitor	U1
81	Jones 2	1/14/20	1/18/20	82.70	**Tubes** Boiler Tube Leak	U1
82	Cunningham 4	1/15/20	1/18/20	84.12	**Other miscellaneous gas turbine problems** Torque Oil leak around thrust bearing probe.	U1
83	Harrington 1	1/18/20	1/18/20	0.62	**Lack of fuel (coal mines; gas lines; etc.) where the operator is not in control of contracts; supply lines; or delivery of fuels** Boiler tripped on loss off fuel (nat. gas) pressure when starting up the unit. All three units were in a startup that contributed to this event. As a result the turbine/generator ended up tripping.	U1
84	Jones 3	1/18/20	1/22/20	102.67	**Turning gear and motor C** Turning gear issues	U1
85	Maddox 1	1/19/20	1/24/20	122.22	**Boiler; miscellaneous** Boiler Skin Leak	U1
86	Jones 2	1/20/20	1/21/20	28.92	**Other miscellaneous balance of plant problems** Boiler Water Chemistry Problems	U1
87	Maddox 2	1/21/20	1/21/20	6.43	**Lube oil system - general** Lube Oil Cooler Logic Controls Change	MO
88	Harrington 1	1/22/20	1/22/20	0.45	**Operating procedure error** When transferring feedwater from the startup valve to the #3 heater the drum level went low and tripped the boiler. The unit tripped on reverse power.	U1
89	Harrington 1	1/22/20	1/24/20	52.13	**Other feedwater pump problems** Unit was shut down to make repairs to the Main Feed pump recirc line safety and manual block valve.	U1

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Fossil Unit Forced Outage History

Line No.	Unit Name	Date Started	Date Completed	Outage Duration (Hours)	Reason For Outage	Event Type
90	Maddox 2	1/22/20	1/22/20	2.22	**Lube oil system - general** Lube Oil Cooler Logic Controls Change	U1
91	Cunningham 4	1/26/20	1/28/20	40.00	**Hydraulic oil system A** Hydraulic skid in alarm. Not Ready to start.	U1
92	Harrington 1	1/26/20	1/26/20	0.23	**Operator error** Operator tripped the unit during a start up	U1
93	Maddox 2	2/1/20	2/5/20	103.32	**Gas turbine vibration** Bearing #5 Thermocouple	U1
94	Plant X 1	2/3/20	2/7/20	111.98	**Inspection F** Turbine inspection	MO
95	Harrington 1	2/5/20	2/5/20	1.00	**Other high pressure heater problems (see condensate system for LP and IP heater codes)** When transferring feedwater flow from the Start-Up Valve to the #3 High Pressure Heater flow was stopped to the drum because the heater outlet showed open and was actually closed. This resulted in a low drum level trip with contributed to the reverse power trip of the turbine/generator.	U1
96	Plant X 2	2/6/20	2/7/20	27.47	**Condenser tube leaks** Condenser tube leak on X1. Unit required to be offline to repair Plant X1 condenser tube leak as both units share a common circulating return line.	U3
97	Tolk 1	2/8/20	2/9/20	28.58	**Waterwall (Furnace wall)** Tube leak on lower water wall	MO
98	Maddox 1	2/13/20	2/13/20	7.60	**4160-volt protection devices** T1-C FBM Modular Burnt Up. Unit tripped.	U1
99	Plant X 1	2/13/20	6/18/20	3,039.98	**Boiler water condition (not feedwater water quality)** Unable to maintain proper condensate chemistry	U1
100	Plant X 2	2/13/20	2/25/20	276.93	**Boiler water condition (not feedwater water quality)** Unable to maintain acceptable water chemistry	U1
101	Cunningham 3	2/18/20	2/22/20	84.75	**Other miscellaneous gas turbine problems** Generator Air Filters bad	U1
102	Nichols 2	2/21/20	2/21/20	7.35	**Burner wind boxes and dampers** Nichols 2 is in unplanned forced outage to work on wind box furnace transmitter.	U1
103	Nichols 2	2/21/20	2/22/20	4.53	**Gas burner piping and valves** Nichols 2 unit is in a unplanned forced outage due to 45lb gas regulator issues that need to be repaired.	U1
104	Cunningham 2	2/23/20	3/6/20	300.98	**Waterwall (Furnace wall)** Boiler Tube Leak, East side, Furnace Waterwall	U1
105	Jones 1	2/24/20	2/24/20	14.50	**Boiler; miscellaneous** Repair hot spot on bottom boiler door on West side	U1
106	Nichols 3	2/27/20	2/28/20	46.00	**First superheater** Nichols Unit 3 will come offline to repair boiler tube leak	U3

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Line No.	Unit Name	Date Started	Date Completed	Outage Duration (Hours)	Reason For Outage	Event Type
107	Cunningham 3	2/28/20	2/28/20	3.85	**Generator output breaker** L915 Low Gas Pressure	U1
108	Cunningham 4	2/28/20	2/28/20	4.48	**Generator output breaker** L915 Gas Pressure Low	U1
109	Cunningham 4	3/1/20	3/1/20	0.67	**Flashback including instruments** Unit Tripped, flashback	SF
110	Cunningham 4	3/1/20	3/1/20	6.00	**Flashback including instruments** Flashback Temps 4A and 4B	U1
111	Jones 2	3/1/20	3/1/20	9.45	**Turbine governing system** Intercept valve not opening	SF
112	Maddox 2	3/1/20	3/2/20	29.48	**Other miscellaneous gas turbine problems** Unit Tripped	U1
113	Cunningham 4	3/4/20	7/2/20	2,896.17	**Other miscellaneous generator problems** 86-1, 86-2 caused unit to trip	U1
114	Tolk 2	3/5/20	3/8/20	76.28	**Platen superheater** Superheat tube leak	U3
115	Cunningham 3	3/7/20	3/13/20	142.27	**Other miscellaneous gas turbine problems** Arc Flash installation for breakers	MO
116	Plant X 2	3/9/20	3/13/20	110.35	**Lube oil pumps A** Repair steam leak on turbine steam driven emergency oil pump	MO
117	Nichols 3	3/10/20	3/14/20	99.37	**First superheater** Nichols 3 is in a maintenance outage for boiler tube repair	MO
118	Harrington 1	3/12/20	3/21/20	203.15	**Feedwater pump** The unit was removed from service because the Main Feed pump would not isolate on line to make repairs to the break down bushings on the pump.	U2
119	Jones 1	3/13/20	3/13/20	1.67	**Bearings C** Came off to investigate the #4 bearing temperature being erratic	U1
120	Maddox 3	3/18/20	3/18/20	6.50	**Other miscellaneous gas turbine problems** Auxiliary Gear Oil Leak	U1
121	Jones 1	3/20/20	3/20/20	15.83	**Circulating water tempering system** Circulating water line leak	SF
122	Jones 2	3/21/20	3/28/20	168.00	**Condenser tube fouling tube side** Clean the condenser	U3
123	Harrington 1	3/24/20	3/24/20	6.25	**Hot well level controls** Unit missed on line and min load times due to issues with hot well level. Having issues with the make up valving or piping from the storage tanks.	SF
124	Plant X 4	3/28/20	3/28/20	9.60	**Reheat stop valves** Reheat valves shut do to hydraulic oil flow issue	U1
125	Plant X 4	3/28/20	4/1/20	104.27	**Other lube oil system problems** Turbine oil trip issue	U1
126	Tolk 2	3/30/20	4/1/20	45.17	**First superheater** Repair tube leak in reheat section of boiler	MO
127	Jones 2	3/31/20	4/3/20	72.67	**Boiler; miscellaneous** Hot spot on boiler camera port	U1
128	Plant X 4	4/1/20	4/4/20	56.98	**Refractory and insulation** Inspect and repair boiler hot spots.	MO

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Fossil Unit Forced Outage History

Line No.	Unit Name	Date Started	Date Completed	Outage Duration (Hours)	Reason For Outage	Event Type
129	Maddox 2	4/5/20	4/9/20	93.02	**Gas turbine vibration** Vibration issues	U1
130	Plant X 4	4/7/20	4/9/20	42.63	**Reheat steam relief/safety valves** Inspect reheat steam safety valve	U1
131	Maddox 2	4/9/20	4/30/20	504.90	**Other stack or exhaust emissions (gas turbine)** Gas Turbine Stack Work	MO
132	Jones 4	4/12/20	4/13/20	8.00	**Lube oil filters** Replacing Oil Filters	U1
133	Jones 2	4/16/20	4/18/20	24.50	**Waterwall (Furnace wall)** Waterwall tube leak on B corner	SF
134	Nichols 3	4/16/20	4/19/20	78.68	**Economizer** Nichols Unit 3 is in forced outage to repair boiler tube leak.	U1
135	Tolk 1	4/17/20	4/19/20	38.48	**Waterwall (Furnace wall)** Tube leak - Wall	U2
136	Tolk 2	4/17/20	4/17/20	6.10	**Lube oil pump drive** Replace bearing: Main Turbine AC Bearing Oil Pump	U1
137	Tolk 1	4/22/20	4/27/20	133.22	**Waterwall (Furnace wall)** Tube leak on 11-12 floor, wall tube	U1
138	Harrington 1	4/25/20	4/25/20	0.73	**Operator error** Turbine tripped on high drum level. Drum level went high when operator was swapping from the startup valve and the #3 heater valve.	U1
139	Jones 1	4/29/20	4/29/20	6.28	**Boiler drains system** Weld leak on continuous blowdown line	SF
140	Jones 3	4/29/20	5/2/20	58.58	**Fuel conservation** Gas supply issues with Power Tex gas line maintenance	U1
141	Nichols 3	4/29/20	4/29/20	0.50	**Boiler drum gage glasses/level indicator** Nichols Unit 3 tripped due to high drum level	U1
142	Jones 2	5/2/20	5/3/20	34.40	**Waterwall (Furnace wall)** Waterwall tube leak on B corner	SF
143	Plant X 2	5/2/20	5/2/20	5.83	**Circulating water piping** Leak on Circulating Water Line	SF
144	Maddox 2	5/5/20	5/8/20	83.90	**Generator current and potential transformers** Transformer and Generator Relay work	MO
145	Maddox 3	5/5/20	5/8/20	82.90	**Generator current and potential transformers** Change differential relays	MO
146	Harrington 1	5/6/20	5/16/20	220.77	**Particulate stack emissions (fossil)** Unit was removed from service to prevent a Particulate Matter exceedance	U2
147	Plant X 4	5/6/20	5/6/20	2.35	**Main transformer** During an inspection of the main power transformer fans, the fans tripped due to an electrical issue on the fans.	U1
148	Cunningham 3	5/10/20	5/16/20	146.12	**Other miscellaneous gas turbine problems** Generator Bellows Inspection and Repairs	MO
149	Jones 4	5/12/20	5/12/20	4.05	**General unit inspection A** Gas Calibration	U1

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Line No.	Unit Name	Date Started	Date Completed	Outage Duration (Hours)	Reason For Outage	Event Type
150	Maddox 2	5/12/20	5/15/20	71.62	**Other miscellaneous gas turbine problems** 5 bearing temperature high on startup	U1
151	Tolk 2	5/15/20	5/22/20	163.37	**Minor boiler overhaul (less than 720 hours) (use for non-specific overhaul only; see page B-1)** Inspection of lower loops of reheat tubes and heat exchanger cleaning	MO
152	Harrington 1	5/18/20	5/25/20	145.27	**Particulate stack emissions (fossil)** Unit was removed from service after particulate matter testing because the unit is environmentally out of compliance.	U1
153	Harrington 2	5/20/20	5/21/20	34.07	**Other high pressure heater problems (see condensate system for LP and IP heater codes)** Unit was removed from service to make repairs to the #2 and #3 High Pressure heater valves.	MO
154	Maddox 2	5/20/20	5/20/20	2.68	**Gas turbine vibration** Disc Cavity Thermocouple Replacement	U1
155	Maddox 1	5/21/20	5/29/20	192.63	**Balance of plant overhaul/outage** Boiler Inspection	MO
156	Tolk 1	5/25/20	5/28/20	77.25	**Waterwall (Furnace wall)** Water wall tube leak water standing on 12th floor buck stay on 4 corner	U1
157	Jones 1	5/30/20	6/7/20	204.98	**Condenser tube and water box cleaning (including circulating water flow reversal)** Clean Condenser and Boiler Repairs	MO
158	Maddox 1	5/30/20	5/30/20	3.27	**Other turbine valves (including LP steam admission valves)** North Turbine Throttle Valve Stuck	U1
159	Plant X 4	5/31/20	6/9/20	215.32	**Main transformer** To repair Main Power Transformer	MO
160	Harrington 2	6/1/20	6/1/20	0.90	**Operator error** Manual Trip turbine on startup - Superheat Steam Temperature dropped 300 degrees	U1
161	Maddox 2	6/2/20	6/2/20	3.48	**Lube oil system - general** AC Lube Oil Motor, Inspect	U1
162	Nichols 1	6/2/20	6/3/20	38.02	**Other feedwater valves** Repair Feedwater check valves and condenser maintenance. Prepare the unit for summer run.	MO
163	Maddox 2	6/6/20	6/6/20	1.05	**Blade Path Temperature Spread A** Blade Path Temperature	SF
164	Maddox 1	6/10/20	6/18/20	183.85	**Other hydraulic system problems** Electro-Hydraulic System	U1
165	Nichols 2	6/15/20	6/18/20	87.58	**Circulating water piping** Outage to replace condenser outlet expansion joints and prepare for summer	MO
166	Cunningham 3	6/17/20	6/17/20	3.83	**Inlet air evaporative coolers B** Vacuum leak	U1
167	Jones 2	6/18/20	6/19/20	38.93	**Waterwall (Furnace wall)** Waterwall tube leak on B corner	U1

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Fossil Unit Forced Outage History

Line No.	Unit Name	Date Started	Date Completed	Outage Duration (Hours)	Reason For Outage	Event Type
168	Jones 2	6/22/20	6/24/20	41.10	**Circulating water pump motors** Loss of West auxiliary circulating pump motor.	U1
169	Nichols 2	6/22/20	7/2/20	232.78	**Other boiler tube leaks** Forced outage due to tube leak in reheat section	U1
170	Harrington 3	6/24/20	6/25/20	16.68	**Waterwall (Furnace wall)** Unit was removed from service to make repairs to an external water wall tube leak.	MO
171	Plant X 1	6/24/20	6/24/20	0.92	**Forced draft fan dampers** Lost boiler due to high furnace pressure, issues with Forced Draft fan control	U1
172	Cunningham 2	6/25/20	6/28/20	53.45	**Startup feedwater pump** Inspect North Boiler Feed Pump/Repack South Boiler Feed Pump	U1
173	Jones 3	6/25/20	6/25/20	5.02	**Exhaust Stack** Stack Inspection	U1
174	Cunningham 3	6/26/20	6/26/20	1.00	**Starting system (including motor) A** Move Cunningham 4 Starting Motor	U1
175	Cunningham 2	6/28/20	6/29/20	30.12	**Startup feedwater pump** South Boiler Feed Pump Repack Packing	U1
176	Harrington 2	7/5/20	7/9/20	93.52	**Waterwall (Furnace wall)** Unit was removed from service to make repairs to a water wall tube leak on the floor slope.	MO
177	Nichols 3	7/6/20	7/10/20	93.30	**Other boiler tube leaks** Boiler tube leak unable to maintain hotwell	U1
178	Plant X 4	7/9/20	9/3/20	1,333.33	**Switchyard circuit breakers - external** Switchyard circuit breaker-external fault, causing damage to Plant X4 Generator Step-Up Transformer.	U1
179	Jones 3	7/11/20	7/17/20	140.65	**Blade Path Temperature Spread A** Unit tripped on Blade Path spread	U1
180	Maddox 3	7/14/20	7/16/20	46.63	**Lube oil system - general** Unit tripped on high oil temperature	U1
181	Maddox 2	7/15/20	7/21/20	135.80	**Generator output breaker** 52G failed to open	U1
182	Tolk 1	7/16/20	7/16/20	1.03	**Feedwater controls (report local controls -- - feedwater pump; feedwater regulator valve; etc. --- with component or system)** Unit trip on high drum level excursion	U1
183	Tolk 1	7/16/20	7/18/20	35.23	**Condenser tube leaks** Unit offline due to abnormally high water chemistry issues suspect condenser tube leak	U1
184	Harrington 1	7/17/20	7/18/20	14.87	**Deaerator (including level control)** Unit was removed from service to replace a manhole cover gasket on the Deaerator Heater upper tank.	U2
185	Jones 3	7/17/20	7/17/20	1.10	**Unit auxiliaries transformer** While removing the LOTO on the SEE and SEC and unlocking the breaker the unit tripped.	U1

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Fossil Unit Forced Outage History

Line No.	Unit Name	Date Started	Date Completed	Outage Duration (Hours)	Reason For Outage	Event Type
186	Nichols 3	7/17/20	7/19/20	41.00	**Doors** While cycling, steam drum north door gasket failed	U1
187	Cunningham 2	7/18/20	7/29/20	264.97	**Waterwall (Furnace wall)** Water Supply not keeping up. Boiler Tube Leak Suspected	U1
188	Jones 2	7/18/20	7/21/20	86.72	**Waterwall (Furnace wall)** Waterwall tube leak on B corner	U1
189	Harrington 1	7/20/20	7/20/20	14.68	**Startup feedwater pump** Unit experienced a Startup Failure due to the Startup Boiler Feed pump Motor failure.	SF
190	Plant X 2	7/20/20	7/22/20	62.53	**Economizer** Unable to maintain feedwater level	U2
191	Maddox 2	7/23/20	7/23/20	1.12	**Other miscellaneous gas turbine problems** Flame Failed to Light	SF
192	Harrington 1	7/27/20	7/28/20	0.97	**Igniters** Unit experienced an MFT-Flame Failure Trip. Unit was derated to remove the furnace from coal to gas when Electrostatic Precipitator issues were taking place.	U1
193	Harrington 1	7/28/20	7/28/20	0.47	**Startup feedwater pump** Unit tripped on high drum level when transitioning feedwater flow from the Startup feedwater valve to the #3 heater. The unit was controlling the drum level with the main feed pump because the Start-Up feed pump is not available.	U1
194	Harrington 1	7/28/20	7/28/20	0.25	**Startup feedwater pump** Unit tripped on high drum level when transitioning feedwater flow from the Start-Up feedwater valve to the #3 heater. The unit was starting up with the main feed pump because the SU feed pump was unavailable.	U1
195	Nichols 3	7/29/20	7/31/20	64.67	**Control valves** #1 Control valve stem broke	U2
196	Cunningham 2	7/30/20	8/3/20	94.75	**Boiler Inspections - problem identification/investigative** Boiler Furnace: A Corner	U1
197	Cunningham 3	7/31/20	7/31/20	4.00	**Other miscellaneous gas turbine problems** Inspect Gas Metering	U1
198	Jones 2	7/31/20	7/31/20	4.20	**Control valves** Replace the moog valve to the Left Side Governor Valve	SF
199	Plant X 1	8/2/20	8/7/20	123.50	**Bearings C** Turbine bearing vibration issues on #1 bearing	U1
200	Plant X 2	8/2/20	8/4/20	63.47	**Economizer** Unable to maintain feedwater level	U2
201	Cunningham 2	8/4/20	8/6/20	50.28	**Boiler; miscellaneous** Boiler Furnace: Skin	U1
202	Cunningham 2	8/6/20	8/7/20	30.78	**Boiler; miscellaneous** Water Supply Makeup not Keeping up. Suspect Boiler Tube Leak	U1
203	Cunningham 1	8/7/20	8/11/20	81.97	**Waterwall (Furnace wall)** Boiler Tube Leak Suspected	U3

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Fossil Unit Forced Outage History

Line No.	Unit Name	Date Started	Date Completed	Outage Duration (Hours)	Reason For Outage	Event Type
204	Cunningham 4	8/7/20	8/7/20	3.13	**Lube oil system - general** Unit tripped on Loss of Lube Oil Pressure	U1
205	Maddox 2	8/7/20	8/11/20	87.55	**Generator output breaker** Generator breaker failed to open on shut down.	U1
206	Harrington 3	8/9/20	8/9/20	0.18	**Operator error** Unit was removed from service to transfer turbine valve control from the pilot valve to the governor valves.	U1
207	Plant X 1	8/10/20	8/10/20	7.50	**Shaft seals D** Low pressure water seals appear to be leaking from the turbine.	SF
208	Plant X 1	8/11/20	8/12/20	25.28	**Forced draft fans** Forced Draft fan trip	U1
209	Tolk 2	8/12/20	8/15/20	71.30	**Circulating water piping** Circulating water system leak on cooling tow header.	U1
210	Cunningham 3	8/15/20	8/15/20	3.32	**Other miscellaneous gas turbine problems** Unit tripped to Lower Explosive Limit reaching limit	U1
211	Cunningham 3	8/16/20	8/17/20	14.40	**Fuel piping and valves A** Repair Gas Leaks	U1
212	Plant X 1	8/16/20	8/24/20	183.75	**First superheater** Boiler tube leak	U1
213	Cunningham 4	8/18/20	8/24/20	154.97	**Fuel filters A** Unit Tripped on Gas Low	U1
214	Cunningham 2	8/22/20	8/28/20	126.03	**Doors** Boiler Furnace Door Repair	U1
215	Tolk 2	8/22/20	8/22/20	0.65	**Burner instruments and controls (except light-off)** Flame failure trip	U1
216	Harrington 2	8/24/20	8/24/20	0.85	**Maintenance personnel error** Unit tripped after the Main Boiler Feed Pump tripped on high vibration. The 3X vibration probe was out of service due to high false readings because of a probe wiring issue. The 3X probe was inadvertently placed back in service causing the trip.	U1
217	Jones 1	8/27/20	8/30/20	67.88	**Circulating water piping** Repair crack in the Cooling Tower Distribution Header in the hot water deck	U1
218	Harrington 2	8/30/20	9/4/20	105.72	**Second reheater** Unit was removed from service to make repairs to a re-heater tube leak.	MO
219	Nichols 1	8/30/20	8/30/20	3.83	**Switchyard system protection devices - external** Unit tripped due Transmission Operations storm restoration switching in the substation.	U1
220	Maddox 3	9/1/20	9/18/20	413.53	**Other miscellaneous gas turbine problems** Check Cooling Pump and Calibrate	MO
221	Tolk 2	9/1/20	9/4/20	67.47	**First reheater** Reheat tube leak repairs	U1
222	Jones 3	9/3/20	9/3/20	5.73	**Blade Path Temperature Spread A** Unit failed the start on blade path spread	U1

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Fossil Unit Forced Outage History

Line No.	Unit Name	Date Started	Date Completed	Outage Duration (Hours)	Reason For Outage	Event Type
223	Jones 3	9/4/20	9/4/20	3.65	**Blade Path Temperature Spread A** Unit had failed start for blade path spread	SF
224	Cunningham 3	9/5/20	9/5/20	1.25	**Starting system (including motor) A** Breaker 3a100 Tripped	SF
225	Cunningham 4	9/5/20	9/5/20	1.33	**Starting system (including motor) A** Breaker 3a100 tripped	SF
226	Tolk 2	9/5/20	9/18/20	307.22	**Startup feedwater pump** Start-up motor driven feedpump has a leak on pump barrel will not isolate before we could come offline for that was forced offline for a tube leak in the division panel	U1
227	Cunningham 4	9/8/20	9/8/20	8.37	**Lube oil system - general** Lube Oil Cooler Belts Loose	U1
228	Jones 2	9/8/20	9/12/20	96.00	**Waterwall (Furnace wall)** Waterwall tube leak on B corner/clean condenser	MO
229	Plant X 2	9/8/20	9/11/20	72.50	**Air heater (heat pipe; plate-type)** Air Preheater bearing replacement	U1
230	Harrington 2	9/9/20	9/9/20	3.07	**Turbine supervisory system (use codes 4290 to 4299 for hydraulic oil)** Unit had a start up failure due to the turbine differential expansion readings not being with in the set limits.	SF
231	Cunningham 2	9/10/20	9/15/20	114.23	**Waterwall (Furnace wall)** Boiler Furnace Rear Water Wall Tube Leak	MO
232	Maddox 2	9/10/20	9/10/20	3.13	**High pressure compressor bleed valves** Bleed Valves Won't Open	U1
233	Nichols 1	9/14/20	9/17/20	74.99	**Other lube oil system problems** Turbine #2 bearing oil seal leak	U1
234	Maddox 2	9/16/20	9/16/20	6.25	**Other miscellaneous gas turbine problems** Change Generator Air Filters	MO
235	Harrington 2	9/17/20	9/17/20	5	**Turbine supervisory system (use codes 4290 to 4299 for hydraulic oil)** Turbine tripped when the turbine thrust reached the 30 mil trip point.	U1
236	Tolk 2	9/21/20	9/24/20	62.93	**First superheater** Division panel tube leak	U1
237	Plant X 4	9/22/20	9/25/20	79.63	**Economizer** Boiler tube leak repairs	MO
238	Maddox 2	9/22/20	9/24/20	60.05	**Lube oil system - general** 5 Bearing Oil Drain Temperature High, Unit Tripped	U1
239	Cunningham 3	9/22/20	9/23/20	9.88	**Gas fuel system B** Fix Gas Leak and Balance Shot	U1
240	Cunningham 3	9/24/20	9/25/20	14.17	**Engine shafts and bearings** Balance shot to correct vibration issues	U1
241	Cunningham 3	9/25/20	9/25/20	1.45	**Exciter drive - motor** Startup Failure: 24DT Volt/HZ Inv Time	SF
242	Cunningham 3	9/25/20	10/24/20	696.92	**Other exciter problems** Field Breaker failed to close	U1

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Fossil Unit Forced Outage History

Line No.	Unit Name	Date Started	Date Completed	Outage Duration (Hours)	Reason For Outage	Event Type
243	Tolk 2	9/29/20	9/29/20	1.9	**Switchyard circuit breakers - external** Center bushing on TK32 generator breaker, has low oil level. Once bushing is filled with oil, unit can come back online.	U1
244	Nichols 3	9/29/20	10/9/20	245.28	**Generator Voltage Supply System** Field ground alarm came in while online.	U1
245	Nichols 1	9/30/20	10/1/20	28.1	**Turbine governing system** Turbine governor drives fault	U1

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Fossil Unit Planned Data

Line No.	Unit Name	Scheduled Start Date	Scheduled End Date	Scheduled Length Of Outage (Days)	Actual Start Date	Actual End Date	Actual Length Of Outage (Days)	Reason for Outage	Event Type[4]
1	Nichols 3	9/1/2019	11/2/2019	63	9/1/19	11/3/19	62.99	**Main stop valves** Nichols unit 3 is in major overhaul.	PO
2	Nichols 1	9/15/2019	12/30/2019	107	9/15/19	12/31/19	108.00	**Main stop valves** Nichols unit 1 is in major overhaul. Turbine inspection (High Pressure, Intermediate Pressure ,Low Pressure, Generator)	PO
3	Jones 4	11/3/2019	11/9/2019	7	11/3/19	11/8/19	5.91	**Boroscope inspection A** Borescope Inspection	PO
4	Nichols 3	N/A[3]	N/A[3]		11/4/19	11/4/19	0.39	**Generator voltage control** Unit tripped due to failure in the automatic voltage regulator sending signal to lockout relay.	PO
5	Jones 3	11/10/2019	11/16/2019	7	11/10/19	11/17/19	7.00	**Boroscope inspection A** Borescope Inspection	PO
6	Nichols 3	N/A[3]	N/A[3]		11/14/19	11/16/19	2.65	**Pipe hangers; brackets; supports (general)** Nichols Unit 3 is in planned outage	PO
7	Jones 3	N/A[4]	N/A[4]		11/17/19	11/20/19	3.73	**Boroscope inspection A** Borescope Inspection.	PE
8	Maddox 1	11/25/2019	12/11/2019	17	11/25/19	12/5/19	9.75	**Boiler recirculation valves** Boiler Recirculation Valves. Balance of Plant	PO
9	Maddox 1	N/A[4]	N/A[4]		12/5/19	12/18/19	13.67	**Boiler recirculation valves** Planned outage extension.	PE

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Fossil Unit Planned Data

Line No.	Unit Name	Scheduled Start Date	Scheduled End Date	Scheduled Length Of Outage (Days)	Actual Start Date	Actual End Date	Actual Length Of Outage (Days)	Reason for Outage	Event Type[4]
10	Nichols 1	N/A[1]	N/A[1]		1/1/20	2/7/20	37.46	**Main stop valves** Nichols Unit 1 is in major overhaul. Turbine inspection (High Pressure, Intermediate Pressure ,Low Pressure, Generator)	PO
11	Cunningham 1	1/18/2020	2/29/2020	43	1/18/20	2/29/20	42.35	**Balance of plant overhaul/outage** Planned 10 week outage	PO
12	Nichols 1	N/A[3]	N/A[3]		2/7/20	2/13/20	5.84	**Main stop valves** Nichols 1 planned outage	PO
13	Nichols 1	N/A[3]	N/A[3]		2/14/20	2/14/20	0.07	**Main stop valves** Nichols 1 is in planned outage for "No Load" setting on turbine control valves.	PO
14	Nichols 1	N/A[3]	N/A[3]		2/14/20	2/24/20	9.78	**Main stop valves** Nichols 1 in planned outage-balance issues	PO
15	Harrington 2	2/22/2020	5/10/2020	79	2/22/20	5/8/20	76.58	**Major overhaul (720 hrs or longer) (use for non-specific overhaul only; see page B-1)** Major Outage	PO
16	Nichols 1	N/A[2]	N/A[2]		2/25/20	3/6/20	10.05	**Main stop valves** Nichols 1 is in planned outage for vibration issues.	PO
17	Jones 3	2/22/2020	2/28/2020	7	2/26/20	2/28/20	2.57	**Other miscellaneous gas turbine problems** Gas calibrations	PO

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Fossil Unit Planned Data

Line No.	Unit Name	Scheduled Start Date	Scheduled End Date	Scheduled Length Of Outage (Days)	Actual Start Date	Actual End Date	Actual Length Of Outage (Days)	Reason for Outage	Event Type[4]
18	Jones 4	3/1/2020	3/30/2020	30	3/1/20	3/30/20	29.32	**Exhaust Stack** Repair the silencers in the stack	PO
19	Tolk 1	3/1/2020	4/7/2020	38	3/1/20	4/7/20	37.59	**Major boiler overhaul (720 hours or longer) (use for non-specific overhaul only; see page B-1)** Boiler Outage - tube replacement work	PO
20	Nichols 1	N/A[2]	N/A[2]		3/6/20	3/17/20	10.88	**Main stop valves** Nichols 1 is in planned outage for vibration issues.	PO
21	Cunningham 2	3/14/2020	5/17/2020	65	3/13/20	5/17/20	65.26	**Waterwall (Furnace wall)** Outage: Boiler Tube Replacement	PO
22	Nichols 1	N/A[3]	N/A[3]		3/18/20	3/19/20	0.83	**Main stop valves** Nichols 1 is in planned outage for vibration issues.	PO
23	Nichols 1	N/A[3]	N/A[3]		3/20/20	3/24/20	3.58	**Main stop valves** Nichols 1 is in a planned outage extension.	PO
24	Nichols 1	N/A[3]	N/A[3]		3/28/20	3/31/20	3.50	**Main stop valves** Nichols 1 is in an outage extension for vibration issues	PO
25	Plant X 2	4/12/2020	4/26/2020	15	4/12/20	4/30/20	18.67	**Boiler safety valve test** Inspect boiler safety valves per boiler code	PO

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Fossil Unit Planned Data

Line No.	Unit Name	Scheduled Start Date	Scheduled End Date	Scheduled Length Of Outage (Days)	Actual Start Date	Actual End Date	Actual Length Of Outage (Days)	Reason for Outage	Event Type[4]
26	Jones 4	5/11/2020	5/12/2020	2	5/11/20	5/11/20	0.99	**General unit inspection A** Gas Calibration	PO
27	Harrington 2	N/A[2]	N/A[2]		5/12/20	5/12/20	0.49	**Vibration of the turbine generator unit that cannot be attributed to a specific cause such as bearings or blades (use this code for balance moves)** Unit was removed from service to make a balance move on the Low Pressure turbine and exciter.	PO
28	Jones 3	5/13/2020	5/14/2020	2	5/13/20	5/13/20	0.71	**General unit inspection A** Gas Calibration	PO
29	Cunningham 2	N/A[4]	N/A[4]		5/17/20	6/9/20	22.52	**Waterwall (Furnace wall)** Outage Extension: Boiler Tube Replacement	PE
30	Harrington 1	5/25/2020	6/1/2020	8	5/25/20	6/1/20	7.69	**Minor boiler overhaul (less than 720 hours) (use for non-specific overhaul only; see page B-1)** Planned Mini outage to clean the Electrostatic Precipitator	PO

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Fossil Unit Planned Data

Line No.	Unit Name	Scheduled Start Date	Scheduled End Date	Scheduled Length Of Outage (Days)	Actual Start Date	Actual End Date	Actual Length Of Outage (Days)	Reason for Outage	Event Type[4]
31	Tolk 1	9/16/2020	11/10/2020	56	9/14/20	12/3/20	56.04	**Generator synchronization equipment** Boiler Inspection, Capital: Synchronize Condenser Conversion ADDED: Swapping back over from Synchronize Condenser to couple back to turbine	PO
32	Tolk 1	N/A[4]	N/A[4]		11/10/20	12/3/20	23.00	**Generator synchronization equipment** Boiler Inspection, Capital: Synchronize Condenser Conversion. NOTE: Extention due to COVID issues with numerous specialist workers availabilty due to possitive test of Covid	PE
33	Maddox 1	9/19/2020	10/31/2020	43	9/21/20	10/31/20	40.71	**Balance of plant overhaul/outage** Boiler and Balance of Plant	PO
34	Jones 4	9/22/2020	9/23/2020	2	9/22/20	9/22/20	0.70	**Fuel Gas Compressor - other** Gas Chromatograph Calibration	PO

Notes: (1) Repair work developed after the final Overhaul Schedule was published.
Repair met the North American Electric Reliability Corporation ("NERC") definition of a planned outage.
(2) Testing and Balancing performed on the unit after major overhaul.
(3) Overhaul schedule extended beyond original date.
(4) Event Type from NERC Generating Availability Data System defined event types:
PO - Planned Outage
PE - Planned Outage Extension

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Fossil Unit Outage Planning

Line No.	YEAR	UNIT NAME	PROJECTED START DATE	PROJECTED LENGTH OF OUTAGE (DAYS)	REASON FOR OUTAGE
1	**2020**				
2		Harrington3			Mini Overhaul
3		PlantX2			Inspect boiler, igniters, valves, pumps, motors, cooling tower
4		PlantX1			Inspect boiler, igniters, valves, pumps, motors, cooling tower
5		Jones3			Preventive Maintenance, Gas Calibration, Borescope Inspection Capital Projects: Hot Gas Path Inspection
6		Jones4			PM's, quarterly gas calibration, Borescope Inspection Capital Projects: Controls Upgrade
7		PlantX4			Boiler hot spot prevention/repairs; Capital: Complete installation of X4 turbine/generator fire protection system.
8		Nichols1			Automatic Voltage Regulator Replacement
9		Tolk2			Throttle/Intercept Valves, Boiler, Acidizing. Capital Projects: Install synchronous condenser , Replace Burners, Baghouse Doors, Air Preheater Cold Baskets, Rebuild Mill B Gearbox
10		Cunningham4			Combustion Inspection
11		Cunningham3			controls upgrade
12	**2021**				
13		Tolk1			Switch from Generator Mode to Synchronous Condenser Mode
14		Jones1			High Pressure/Intermediate Pressure Turbine with bore inspection, Reheat/Intercept Valves, Boiler, Acidizing. Capital Projects: Replace #1 Feedwater Heater, Cooling Tower Fill & Drift Eliminators Cells 1-5
15		Jones2			Capital Projects: Replace Boiler Corner Tubes
16		Maddox2			WH 501B4 Major
17		Jones4			Preventive Maintenance, Gas Calibration, Borescope Inspection
18		Cunningham1			Control Valves
19		PlantX4			High pressure and Intermediate pressure Turbine, Low Pressure Turbine with borescope, Boiler, Capital Projects: Burner Management System/Oil Burner Management System Upgrade, Inverter Replacement.
20		Nichols2			Throttle, Intercept, Reheat Stop Valves, Boiler
21		Jones3			Preventive Maintenance, Gas Calibration, Borescope Inspection
22		Harrington1			Mini Overhaul, Precipitator cleaning
23		Harrington2			Mini Overhaul, boiler circ pump install

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Fossil Unit Outage Planning

Line No.	YEAR	UNIT NAME	PROJECTED START DATE	PROJECTED LENGTH OF OUTAGE (DAYS)	REASON FOR OUTAGE
24		Tolk1			Mini Overhaul, switch from synchronous condenser to generation mode
25		Tolk2			Converting from synchronous condenser mode to generation mode
26		Jones4			Preventive Maintenance, Gas Calibration
27		Cunningham2			Mini prior to summer run
28		Jones3			Preventive Maintenance, Gas Calibration
29		Maddox1			Mini prior to summer run
30		Nichols3			Mini prior to summer run
31		Jones3			Preventive Maintenance, Gas Calibration
32		Harrington3			High Pressure/Intermediate Pressure Turbine with bore inspection, Throttle Valves, Boiler, Acidizing, Mercury and Air Toxics Standards. Capital Projects: Replace Coal Pipe Orifices, Cooling Tower Acid Tank, Stations Batteries
33		Cunningham2			High Pressure/Intermediate Pressure Turbine, Stop/Control Valves, Boiler
34		Tolk1			Converting from generation mode to synchronous condenser mode
35		Jones4			Preventive Maintenance, Gas Calibration
36		Tolk2			Converting from generation mode to synchronous condenser mode
37		Jones4			Preventive Maintenance, Gas Calibration, Borescope Inspection
38		Quay County			Minor Combustor Inspection
39		Jones3			Preventive Maintenance, Gas Calibration, Borescope Inspection
40	**2022**				
41		Jones4			PM's, quarterly gas calibration, borescope, hot gas path inspection
42		Tolk1			High Pressure/Intermediate Pressure Turbine, Governor/Throttle/Reheat Stop Valves, Generator, Boiler, Acidizing, Mercury and Air Toxics Standards . Capital Projects: Cooling Tower Film Fill, Nozzle block Modification, Submerged Scraper Conveyor Trough
43		Jones4			Preventive Maintenance, Gas Calibration, Borescope Inspection
44		Jones3			Preventive Maintenance, Gas Calibration, Borescope Inspection
45		Jones2			High Pressure/Intermediate Pressure Turbine with bore inspection, Low Pressure Turbine with bore inspection, Throttle Valves, Boiler.
46		Harrington2			Mini Overhaul
47		PlantX4			Inspect boiler, igniters, valves, pumps, motors, cooling tower
48		Nichols3			Mini Outage prior to summer

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Fossil Unit Outage Planning

Line No.	YEAR	UNIT NAME	PROJECTED START DATE	PROJECTED LENGTH OF OUTAGE (DAYS)	REASON FOR OUTAGE
49		PlantX4	[redacted]	[redacted]	Mini Outage - Boiler Repairs
50		Harrington3			Mini Overhaul
51		Nichols2			Mini Outage - Boiler Repairs
52		Jones4			Preventive Maintenance, Gas Calibration
53		Jones3			Preventive Maintenance, Gas Calibration
54		Tolk2			Mini Overhaul
55		Jones4			Preventive Maintenance, Gas Calibration
56		Jones3			Preventive Maintenance, Gas Calibration
57		Harrington1			Throttle Valves, Boiler Feed Pump, Generator, Boiler, Acidizing. Capital Projects: Rebuild Drag Chain Conveyor, Replace Station Batteries, Electrostatic Precipitator Wires
58		Nichols3			Valves, Generator, Boiler, Acidizing. Capital Projects: Replace Hot Reheat Pipe, Reheat dissimilar metal welds.
59		PlantX3			Inspect boiler, igniters, valves, pumps, motors, cooling tower
60		Jones4			Preventive Maintenance, Gas Calibration, Borescope Inspection
61		Jones3			Preventive Maintenance, Gas Calibration, Borescope Inspection
62		Jones4			Capital Projects: Replace Hot Path
63	**2023**				
64		Jones4			Preventive Maintenance, Gas Calibration, Borescope Inspection
65		Jones3			Preventive Maintenance, Gas Calibration, Borescope Inspection
66		Jones1			All Valves, Boiler
67		PlantX4			Inspect boiler, igniters, valves, pumps, motors, cooling tower
68		Harrington3			Mini Overhaul
69		Tolk1			Mini Overhaul
70		Harrington1			Mini Overhaul
71		Tolk2			Mini Overhaul
72		Nichols3			Mini Outage prior to summer
73		Jones4			Preventive Maintenance, Gas calibration
74		Jones3			Preventive Maintenance, Gas calibration
75		Jones4			Preventive Maintenance, Gas calibration
76		Jones3			Preventive Maintenance, Gas calibration
77		Harrington2			High Pressure/Intermediate Pressure Turbine with bore inspection, Low Pressure Turbine with bore inspection, Throttle/Reheat Stop/Intercept Valves, Boiler Feed Pump, Generator, Boiler

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Fossil Unit Outage Planning

Line No.	YEAR	UNIT NAME	PROJECTED START DATE	PROJECTED LENGTH OF OUTAGE (DAYS)	REASON FOR OUTAGE
78		PlantX3			Inspect boiler, igniters, valves, pumps, motors, cooling tower
79		Jones4			Preventive Maintenance, Gas Calibration, Borescope Inspection
80		Jones3			Preventive Maintenance, Gas Calibration, Borescope Inspection
81		Cunningham4			Hot Gas Path Inspection {Continued in 2024}
82	**2024**				
83		Cunningham4			Hot Gas Path Inspection {Continued from 2023}
84		PlantX4			Mini Outage - Boiler Repairs
85		Harrington1			Mini Overhaul
86		Tolk2			Mini Overhaul
87		Harrington2			Mini Overhaul
88		Tolk1			Mini Overhaul
89		Nichols3			Mini Outage prior to summer
90		Harrington3			Low Pressure Turbine, Valves, Generator, Boiler.
91		Quay County			Minor combustor inspection
92		PlantX3			Mini Outage - Boiler Repairs
93	**2025**				
94		Harrington1			Mini Overhaul
95		Tolk2			Mini Overhaul
96		Harrington2			Mini Overhaul
97		Tolk1			Mini Overhaul
98		Nichols3			Mini Outage prior to summer
99		Harrington3			Mini Overhaul
100		Maddox2			Major Inspection
101		Maddox1			Generator, Boiler
102		Cunningham3			Hot Gas Path Inspection {Continued in 2026}
103		Nichols3			Mini Outage prior to summer

Southwestern Public Service Company

Nuclear Unit Incremental Outage Costs

Schedule H-6.3a is not applicable to Southwestern Public Service Company ("SPS") because SPS does not own or operate nuclear facilities.

Southwestern Public Service Company

Fossil Unit Incremental Outage Costs

PLANT NAME	Harrington		
UNIT DESIGNATION	Unit 2	**OUTAGE NUMBER**	A.0001550.987.006
ACTUAL OUTAGE START DATE	2/22/2020	**ACTUAL OUTAGE END DATE**	5/10/2020
OUTAGE DURATION (DAYS)	78		

FERC ACCOUNT NUMBER	DESCRIPTION OF ACCOUNT	ACTUAL EXPENSE
	Generator Inspection and Rewind, Throttle, Reheat Stop, and Governor Valve inspections, Turbine Driven Boiler Feed Pump Inspection, Boiler Inspections and Repairs, MATS Inspections, Stack Inspection, Replace Burners(2 Levels), Replace #5 & #6 LP FW Heaters, Replace Steam Cooled Spacer Tubes, Sootblower Block Valves Install, Cooling Tower Riser Inlet Valves, ID Fans Outlet Damper Replacement, Baghouse Partial Rebag – 7 compartments, Fly ash Vacuum Pump Rebuild, EH Pump Replacement Project, Replace Maintenance Switches 4160/6900v, Replace CT MCC on F – Bus, GSU 230KV Bushing Replacement/DGA Install, Foxboro FBM Migration, Hydrogen Purity Monitor, Flow Accelerated Corrosion and Seamed Piping Inspections	
OPERATIONS		
506	Miscellaneous steam power expenses	$ 110,258
507	Rents	11,916.88
502	Steam expenses	49,325
MAINTENANCE		
512	Maintenance of boiler plant	1,242,130
513	Maintenance of electric plant	644,786
514	Maintenance of miscellaneous steam plant	97,173
	TOTAL EXPENSES	**$ 2,155,589**

Note: Outages under $500,000 are not reported.

Southwestern Public Service Company

Company-Wide Staffing Plan

Projected Headcount - Workforce Plan Through 2029

Line No.	Location	Department	Projected Headcount YE 2020	Projected Headcount YE 2021	Projected Headcount YE 2022	Projected Headcount YE 2023	Projected Headcount YE 2024	Projected Headcount YE 2025	Projected Headcount YE 2026	Projected Headcount YE 2027	Projected Headcount YE 2028	Projected Headcount YE 2029	Projected Headcount YE 2030
1	General Manager Power Gen TX/NM	General Manager Power Gen TX/NM	4	4	4	4	4	3	3	3	3	3	3
2	Cunningham/Maddox Complex	SPS Personnel	52	52	52	51	50	49	49	44	43	40	29
3		XES Personnel	2	2	2	2	2	2	2	2	2	2	2
4	Jones Station	SPS Personnel	36	37	37	37	37	37	37	37	37	37	37
5		XES Personnel	3	3	3	3	3	3	3	3	3	3	3
6	Harrington/Nichols Complex	SPS Personnel	134	134	135	135	135	135	132	132	130	129	128
7		XES Personnel	6	6	6	6	6	6	6	6	6	6	6
8	Tolk/Plant X Complex	SPS Personnel	100	100	96	94	96	94	91	89	89	87	87
9		XES Personnel	4	4	4	4	4	4	4	4	4	4	4
10	Wind Farms	Hale	2	2	2	2	2	2	2	2	2	2	2
11		Sagamore	1	1	1	1	1	1	1	1	1	1	1
12	**Total**		**344**	**345**	**342**	**339**	**340**	**336**	**330**	**323**	**320**	**314**	**302**

Employed by Southwestern Public Service Company ("SPS"):
Control Room Operator A/B
Maintenance Personnel
Instrument & Control Technicians

Employed by Xcel Energy Service Inc. ("XES"):
Safety Consultants
Material Operations
Chemical Technologists
Financial Analysts (no longer located at plant as of 2019 due to reorganization)
Environmental Specialist
Engineers

Note: Counts show a decrease due to anticipated plant retirements.

Southwestern Public Service Company

Production Plant/Unit Staffing Study

Summary - Southwestern Public Service Company Personnel
Staffing Projection: All Headcounts are as of Year End

Line No.		Projected Total Year End 2020	Projected Total Year End 2021	Projected Total Year End 2022	Projected Total Year End 2023	Projected Total Year End 2024	Projected Total Year End 2025	Projected Total Year End 2026	Projected Total Year End 2027	Projected Total Year End 2028	Projected Total Year End 2029	Projected Total Year End 2030
1	**Authorized Staffing**											
2	Gen Mgr	4	4	4	4	4	3	3	3	3	3	3
3	Cunningham / Maddox	52	52	52	51	50	49	49	44	43	40	29
4	Harrington / Nichols	134	134	135	135	135	135	132	132	130	129	128
5	Jones	36	37	37	37	37	37	37	37	37	37	37
6	Tolk / Plant X	100	100	96	94	96	94	91	89	89	87	87
7	Hale Wind Farm	2	2	2	2	2	2	2	2	2	2	2
8	Sagamore Wind Farm	-	-	1	1	1	1	1	1	1	1	1
9	**Total Authorized Staffing**	**328**	**329**	**327**	**324**	**325**	**321**	**315**	**308**	**305**	**299**	**287**
10	**Projected Retirements**											
11	Cunningham / Maddox	1	1	2	2	1	3	-	-	2	-	1
12	Harrington / Nichols	5	5	5	5	2	6	4	-	4	3	1
13	Jones	-	-	1	1	-	-	-	-	-	-	-
14	Tolk / Plant X	5	5	5	7	3	4	3	5	2	3	1
15	Hale Wind Farm	-	-	-	-	-	-	-	-	-	-	-
16	Sagamore Wind Farm	-	-	-	-	-	-	-	-	-	-	-
17	**Total Projected Retirements**	**11**	**11**	**13**	**15**	**6**	**13**	**7**	**5**	**8**	**6**	**3**
18	**Budgeted and Approved Advance Hires**											
19	Cunningham / Maddox	1	1	1	1	1	1	1	-	-	-	1
20	Harrington / Nichols	1	1	-	1	-	1	-	1	-	-	2
21	Jones	-	-	-	-	-	-	-	-	-	-	-
22	Tolk / Plant X	-	-	-	-	-	-	-	-	-	-	-
23	Hale Wind Farm	-	-	-	-	-	-	-	-	-	-	-
24	Sagamore Wind Farm	-	-	-	-	-	-	-	-	-	-	-
25	**Total Budgeted and Approved Advance Hi**	**2**	**2**	**1**	**2**	**1**	**2**	**1**	**1**	**-**	**-**	**3**

Note: This headcount only includes operators, mechanics, electricians and management personnel. Please refer to Schedule H-7.4 for a complete headcount of the facilities, including chemists, engineers, logistics, technicians, environmentalists, safety, and financial personnel.

Southwestern Public Service Company

Personnel Assigned for Plant/Unit

Line No.	Employee Category	Location	2014 (YE Dec 31)	2015 (YE Dec 31)	2016 (YE Dec 31)	2017 (YE Dec 31)	2018 (YE Dec 31)	2019 (YE Dec 31)	2020 (PE Sept 30)	Primary Fuel Type
1	**Regular Benefit Employees**	Harrington Station	161	167	127	111	107	106	101	Coal
2	Energy Supply	Tolk Station	136	136	95	88	81	80	75	Coal
3		Cunningham Station	63	63	42	37	38	39	36	Gas
4		Jones Station	42	45	44	39	38	40	40	Gas
5		Maddox Station	0	0	19	18	19	17	21	Gas
6		Nichols Station	2	5	46	46	47	47	46	Gas
7		Plant X	3	7	40	38	37	36	35	Gas
8		Hale Wind Farm	0	0	0	0	0	3	3	Wind
9		Sagamore Wind Farm	0	0	0	0	0	0	1	Wind
10		**Regular Benefit Employees Total**	**407**	**423**	**413**	**377**	**367**	**368**	**358**	
11	**Regular Benefit Employees**	Harrington Station	8	8	8	12	11	8	8	Coal
12	Non-Energy Supply Employees	Tolk Station	6	7	7	7	6	5	5	Coal
13		Cunningham Station	1	1	1	1	1	1	1	Gas
14		Jones Station	3	3	3	3	3	2	2	Gas
15		Maddox Station	0	0	0	0	0	0	0	Gas
16		Nichols Station	0	0	0	0	0	0	0	Gas
17		Plant X	1	1	1	1	1	1	1	Gas
18		Hale Wind Farm	0	0	0	0	0	0	0	Wind
19		Sagamore Wind Farm	0	0	0	0	0	0	0	Wind
20		**Regular Benefit Employees Total**	**19**	**20**	**20**	**24**	**22**	**17**	**17**	
21	**Contract Staff**	Harrington Station	104	105	76	78	80	78	70	Coal
22	Energy Supply	Tolk Station	52	50	44	43	47	44	41	Coal
23		Cunningham Station	1	2	5	5	5	4	1	Gas
24		Jones Station	1	1	2	2	4	4	2	Gas
25		Maddox Station	0	0	0	0	0	0	0	Gas
26		Nichols Station	1	0	0	0	1	0	0	Gas
27		Plant X	4	5	3	3	3	3	1	Gas
28		Hale Wind Farm	0	0	0	0	1	23	30	Wind
29		Sagamore Wind Farm	0	0	0	0	0	0	0	Wind
30		**Total Energy Supply Contract Staff**	**163**	**163**	**130**	**131**	**141**	**156**	**145**	

Notes: Nichols Station was complexed with Harrington Station in 2005.
Plant X Station was complexed with Tolk Station in 2005.
Maddox Station was complexed with Cunningham Station in 2005.
Personnel are assigned to Plant Site/Complex rather than individual units.
Includes all Energy Supply employees located at the plant(s) including employees in areas such as Technical Resources.
Contract staff includes both staff augmentation and outsourcing, professional services (plus engineer and executive level), and consulting categories.
Year End ("YE").
Period End ("PE").

Southwestern Public Service Company

Average Personnel Assigned

Line No.	Hist Date	Energy Supply Regular Benefit Employees										Other Personnel (Primarily Interns)
		Cunningham Station	Harrington Station	Jones Station	Maddox Station	Nichols Station	Plant X	Tolk Station	Hale Wind Farm	Sagamore Wind Farm	Total	
1	09/30/2019	36	105	41	17	45	36	79	3	0	362	1
2	10/31/2019	36	106	40	17	46	37	79	3	0	364	1
3	11/30/2019	37	106	40	17	46	36	80	3	0	365	1
4	12/31/2019	39	106	40	17	47	36	80	3	0	368	0
5	01/31/2020	37	105	40	17	47	37	80	3	0	366	1
6	02/29/2020	37	104	40	18	47	37	77	3	0	363	2
7	03/31/2020	37	104	40	18	48	36	77	3	0	363	2
8	04/30/2020	36	103	40	20	48	36	76	3	0	362	2
9	05/31/2020	36	103	40	20	48	36	76	3	0	362	2
10	06/30/2020	36	102	40	20	48	36	76	3	0	361	2
11	07/31/2020	36	102	40	21	46	36	76	3	0	360	2
12	08/31/2020	36	100	40	21	45	36	76	3	0	357	1
13	09/30/2020	36	101	40	21	46	35	75	3	1	358	1
14	Rate Year	36	101	40	21	46	35	75	3	1	358	1

Southwestern Public Service Company

Average Personnel Assigned

Line No.	Hist Date	Non-Energy Supply Regular Benefit Employees										Other Personnel (Primarily Interns)
		Cunningham Station	Harrington Station	Jones Station	Maddox Station	Nichols Station	Plant X	Tolk Station	Hale Wind Farm	Sagamore Wind Farm	Total	
1	09/30/2019											
2	10/31/2019											
3	11/30/2019											
4	12/31/2019											
5	01/31/2020											
6	02/29/2020											
7	03/31/2020											
8	04/30/2020											
9	05/31/2020											
10	06/30/2020											
11	07/31/2020											
12	08/31/2020											
13	09/30/2020											
14	Rate Year											

Southwestern Public Service Company

Average Personnel Assigned

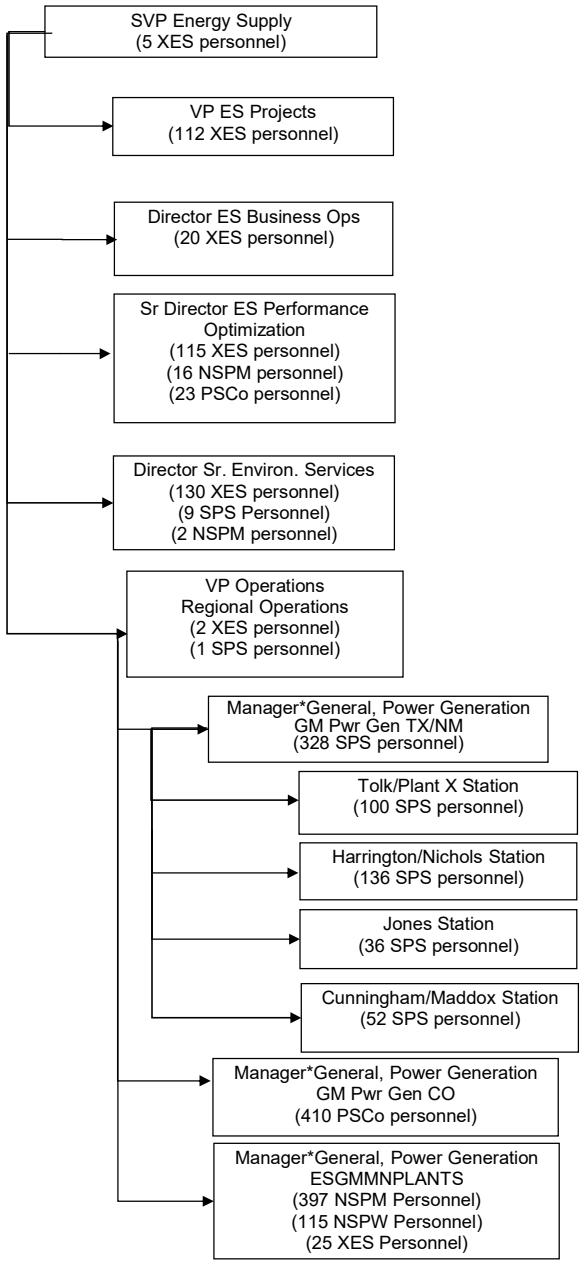
Line No.	Hist Date	Energy Supply Contract Staff									
		Cunningham Station	Harrington Station	Jones Station	Maddox Station	Nichols Station	Plant X	Tolk Station	Hale Wind Farm	Sagamore Wind Farm	Total
1	09/30/2019										
2	10/31/2019										
3	11/30/2019										
4	12/31/2019										
5	01/31/2020										
6	02/29/2020										
7	03/31/2020										
8	04/30/2020										
9	05/31/2020										
10	06/30/2020										
11	07/31/2020										
12	08/31/2020										
13	09/30/2020										
14	Rate Year										

Notes:

Nichols Station was complexed with Harrington Station in 2005.
Plant X Station was complexed with Tolk Station in 2005.
Maddox Station was complexed with Cunningham Station in 2005.
Personnel are assigned to Plant Site/Complex rather than individual units.
Includes all Energy Supply employees located at the plant(s) including employees in areas such as Technical Resources.
Contract staff includes both staff augmentation and outsourcing, professional services (plus engineer and executive level), and consulting categories.
Year End ("YE").
Period End ("PE").

Southwestern Public Service Company

Production O&M Organization Charts



Acronyms: CO - Colorado
ESGMMNPLANTS - Energy Supply General Manager Minnesota Plants
GM - General Manager
Gen - Generation
NSPM - Northern States Power Company, a Minnesota corporation
NSPW - Northern States Power Company, a Wisconsin corporation
Pwr - Power
PSCo - Public Service Company of Colorado, a Colorado corporation
SR - Senior
SPS - Southwestern Public Service Company
VP - Vice President
XES - Xcel Energy Services Inc.

Southwestern Public Service Company

Production Operations Programs

Southwestern Public Service ("SPS") maintains an on-going policy of improving efficiency and determining cost-effective ways to provide savings to its customers and stockholders. Operational programs are one means of accomplishing these improvements. The following information discusses programs utilized by SPS to improve unit efficiency, operations, reliability and safety.

Safety

Safety has always been a high priority for SPS. SPS strives to supply its employees with a safe working environment and equip them with the tools and skills needed to perform their jobs safely. Formal safety meetings are held weekly, and daily safety briefs are held as needed to prepare for the day's assignments. A computerized Lockout/Tagout ("LOTO") procedure is implemented at each generating facility. This is a very structured process with checks and balances that are used to completely isolate equipment for maintenance or repair. LOTO minimizes the chances of injury to personnel or damage to equipment due to improper operation or oversight.

SPS plants have an Emergency Response Team ("ERT") that is composed of approximately 45 employees whose normal job duties are not that of the ERT. All ERT Members are trained to safely and effectively respond to five areas of discipline, including but not limited to: Medical, Fire Fighting, Rescue and Hazardous Waste Operations, Emergency Response, and Confined Space Standby.

SPS plants have a Partnership for Safety ("PFS") committee, which provides leadership in promoting a safe working environment for all employees at each plant facility. The PFS committees conduct activities such as:

- informing power plant personnel of safety issues and promoting safety awareness;
- assisting management in root cause analysis;
- taking part in the selection process for new and existing safety equipment;
- assisting in providing employee safety training; and
- helping resolve employee safety questions and complaints.

There is also a Regional Safety Committee ("RSC") for the SPS region. The RSC provides leadership and support in the area of safety for the Energy Supply employees at SPS. The RSC promotes and facilitates the sharing of ideas, information and best practices regarding safety at SPS using such tools as Daily Management, etc. The RSC ensures that all ongoing as well as future safety initiatives across the SPS facilities are performed and implemented in a consistent and timely manner. The RSC is also responsible for two yearly safety presentations that are shared among all the SPS plant facilities and an annual safety conference that is attended by plant management and several maintenance/operation personnel. The SPS General Manager and

RSC chair make frequent visits to the plants to share and promote safety initiatives and provide recognition.

Technology Innovation

The installation of advanced process control systems at most of the plants has enabled innovative operational programs that surpass those of the traditional power plant. The following summarizes some of the benefits of the newer technology.

SPS has optimized its operations work force by utilizing the benefits of its advanced process control systems. Two aspects of the control system contribute to these optimizations. One is the extension of the realm of automatic control for all aspects of operations including startups, base loading and economic dispatch. This reduces menial operator tasks and allows the operator to function more in a supervisory role in the process. Therefore, an operator can operate and monitor more units than before. The second aspect is the ability to relocate the main operation interface from its original location to a more optimal location. This also applies to "satellite" control rooms for auxiliary systems such as ash collection and water treatment/monitoring.

SPS has also continued the operation of the Harrington, Nichols and Plant X control rooms with one continuously occupied control room for each plant. This has resulted in the ability of SPS to continue to operate with a reduced operational work force at these stations in comparison to the operation of multiple control rooms per plant in the past.

Operational Procedures

Standardization of best practices in plant operations has been an ongoing program in SPS for many years. Management has directed that fleet wide operational directives (policies) be written and implemented. These high-level operational policies address the following areas of operation:

- Normal operation;
- Periodic tests;
- Abnormal operation; and
- Emergency operation.

Once the policies were created, each plant was then required to develop site-specific procedures based on these policies. These procedures have been created and are posted on Xcel Energy's Intranet in a document repository for access by operations and staff.

Training

SPS has a centralized training department dedicated to developing and sustaining the skills required for efficient, safe operation of its power plants. This department develops and documents training lessons and qualification tests for both operations and maintenance personnel. They provide consistent, comprehensive instruction on all facets of the power plant. In addition to operator qualification lessons and tests, this department provides training for

efficient operations and abnormal or emergency operations. Such classes include procedures for black plant, under-frequency and system upsets.

To provide operators with more effective training, SPS utilizes training simulators at its plant complexes. These simulators are close duplicates of the actual control system as viewed by the operator. With these simulators, the operators can learn and practice operator functions without endangering plant equipment or unit reliability. For example, an operator can repeatedly go through a unit startup until he/she becomes proficient with and confident of the process. Other functions include training on unit runbacks, trips and black plant scenarios. SPS has simulators at the Harrington, Nichols, Tolk, Plant X, Cunningham, Maddox and Jones stations.

Plant Operations Continuing Training is designed to conduct value-added training with all classifications of Operators. Continuing training ensures that incumbents maintain and improve job performance, while developing a broader scope and depth of job-related Knowledge (including operational fundamental), Skills and Attitudes (including Human Performance behaviors).

System training was developed to keep Operations, Maintenance, Electricians, Instrument, Engineers, and Management refreshed in water makeup (gathering), cooling water, condensate/feed water, steam cycle, turbine, fuel/air, generator & exciter, electric distribution, house and instrument air systems, ash systems, combustion turbine, transmission, black plant, start/shutdown, environmental permits, and chemistry. This training is cycled through the facilities to keep employees current on equipment and processes.

Maintenance personnel are also trained on asbestos abatement to support those small insulation projects thus avoiding contracting the work out.

Efficient Operations

The purpose of the on-going turbine steam path analysis program is to economically optimize the performance of steam turbines through sound maintenance practices. The analysis consists of two phases: (1) pre-inspection testing and analysis and (2) post shutdown inspection and analysis.

During the pre-inspection analysis, test data is analyzed for the following turbine steam path problems: solid particle erosion, foreign object damage, deposits and steam path leakage. As problems are identified, a determination is made of the components' damage and its probable extent. The impact on fuel costs associated with these problems is calculated. With this knowledge, a determination is made as to which components may need to be replaced and the type of repair procedures needed. The pre-inspection information is then furnished to the plant maintenance department for scheduling of repairs, ordering of parts and preparing repair procedures.

With the turbine disassembled for inspection, the following extensive evaluations are performed:

1. Turbine nozzle and blade erosion and/or damage are assessed. Measurements are taken for throat and pitch dimension. The impact of these problems on heat rate is established from these measurements.
2. Measurements are made to determine deposit thickness and the degree of coverage on nozzles and blades. The impact these deposits have on heat rate is calculated from these measurements.
3. Steam seal and steam packing clearances are measured, and the alignment of the rotating and stationary components is evaluated. Their impact on heat rate is calculated from these measurements. The measurements and resulting calculated values are used to cost-justify the repair and/or replacement of worn or damaged parts.

Controllable Parameters is a new program that was added in 2015 to monitor equipment design parameters. The operators work toward maintaining the design points of the system for optimal fuel consumption. Monitoring displays are utilized to increase the operator awareness so that appropriate actions can be taken to get each controllable parameter as close to target as achievable throughout their shift. The process includes monthly reviews of the controllable parameters and the net unit heat rate averaged by month compared to past month trends. During this process if a controllable parameter has a negative impact then the facility will determine a course of action to correct the deviation.

The Operator Rounds Policy established requirements for implementing the best practices for performing operator rounds at Xcel Energy generating plants. These requirements help optimize operator performance, unit operations, and equipment assessments.

Studies

Technical Knowledge Assessment was conducted by HDR Engineering which included Synterprise Consulting, LLC, in August 2015. The assessment evaluated plant performance data and individual staff capabilities in the SPS plant fleet in comparison to industry best practices. The characteristics evaluated included:

Plant Performance Data:
- Long range performance; and
- Recent trends and root cause events.

Individual Staff Capabilities:
- Individual knowledge of power plant technology and systems;
- Understanding of company expectations for technical knowledge required for success in job performance;
- Demonstration of technical knowledge as related to the power generation facility being managed; and
- Overall sense of commitment to professional and technical growth in the job position.

The HDR/Synterprise Team reached the following conclusions at the time of the assessment:
- The Texas and New Mexico plant management staff has strong technical skills. Some managers would benefit from refresher training.

- Most of the Texas and New Mexico plant engineers had less than the benchmark seven years of experience in their positions, and, therefore needed to develop additional power plant technical knowledge. A formalized mentoring and training program were established to benefit these engineers.
- There was a general weakness in the area of electrical and controls among many of the positions that was addressed in the formalized training program.
- The Texas and New Mexico plant personnel demonstrated a positive attitude and they wanted to improve their technical knowledge of the systems at each station.

The HDR/Synterprise Team recommended the following steps to increase the technical competency curve in the Texas and New Mexico plants:

- Continue the focus on developing standard processes and procedures. Consider third party support when an industry wide perspective is needed.
- Review and revise position descriptions to ensure appropriate technical emphasis is included in the minimum requirements.
- Develop and implement a formalized mentoring program to nurture ongoing transfer of technical knowledge and future transition of plant leadership.
- Develop and implement a formalized training in the following areas:
    - Impact of O&M decisions on the plant performance;
    - Systems and Fossil Plant Fundamentals;
    - Plant Performance and Optimization;
    - Advanced Performance Analysis and Troubleshooting; and
    - Reliability Centered Maintenance.

All training deficiencies were resolved in 2016. SPS's current training processes are geared towards training new employees and refreshing current employees on system training.

Southwestern Public Service Company

Production Maintenance Programs

Southwestern Public Service Company ("SPS") is committed to producing electricity at the lowest possible cost within acceptable safety and reliability standards, while at the same time maintaining or reducing maintenance costs. SPS employs two primary types of maintenance programs to ensure generation efficiency and control costs:

1. scheduled routine maintenance practices; and
2. predictive maintenance practices.

SPS also has maintenance support programs to analyze potential problems and repair facilities as efficiently as possible.

Maintenance Programs

Scheduled Maintenance

Much of the maintenance performed by SPS falls into the scheduled or preventative maintenance category. Preventive maintenance methods are applied wherever practical; however, some machinery failure modes are not detectable without physical inspection. A turbine, for example, may not exhibit any unusual vibration or thermal performance characteristics until a component completely fails. Therefore, turbine-generator overhauls are preventive by nature, but SPS modifies the time between overhauls based on past maintenance history, industry experience, operating hours, number of starts, component assessment and projected retirements.

SPS has developed a web-based overhaul scheduling application to schedule and display future outages, document past outages and their scopes, as well as a system for work and asset management. The system integrates: (1) maintenance requests submitted by power plant personnel; (2) maintenance progress tracking; (3) man-hour time reporting; (4) parts inventory management; (5) scheduled maintenance; and (6) maintenance history. The program enables operators, maintenance personnel, engineers and other technical staff to identify, prioritize, plan, coordinate and schedule maintenance activities for power plants.

Turbine outages are performed on a component basis so that each section of the turbine and generator are inspected during a targeted 9 to 12 equivalent year basis. Actual durations vary and may be more or less often if component history, industry information, component assessment, projected retirements and unit operations warrant an extension or reduction in the duration. Component based overhauls are used to level costs and outage time during a particular year.

During most scheduled overhauls, the 4160 and 480 volt motors that are critical to operations are subjected to testing. These tests are performed for two reasons:

1. To identify weak insulation during an outage rather than during a peak load period; and
2. To predict when the motor should be scheduled for refurbishing or replacement.

Periodic maintenance functions such as lubrication and filter changes are scheduled by SPS's computerized maintenance information system.

Predictive Maintenance

SPS's predictive maintenance program analyzes equipment operations for degradation and performs maintenance at a cost-effective time, prior to failures. SPS has assembled an Analytics and Practices Organization that strives to perform highly accurate periodic tests on all coal and natural gas fired units. The performance assurance program involves tests that are a valuable predictive maintenance tool. Where practical, predictive maintenance tools are applied to turbine-generator maintenance.

The Valve Wide Open Test is a performance test that is performed while a unit is online. The information obtained from this test allows the Analytics & Practices organization or power plant personnel to quantify the amount of degradation that has occurred since previous tests. If significant degradation exists, plant personnel can plan for any needed upgrades or repairs. Heat balance tests have historically been scheduled every two to three years depending on the outage schedules for the major units (>200 MW). Beginning in 2021, online thermal performance monitoring will be implemented on these units to provide near real time monitoring of thermal performance and equipment degradation, as well as predictive analytics to highlight deviations from expected performance. In the absence of online thermal performance monitoring, alternative methods of heat rate and efficiency evaluation will still be employed on three-year intervals. This ensures that the units with the greatest effect on fuel costs are tested frequently. Minor units that have high capacity factors are scheduled for heat rate evaluation approximately every five years depending on need and resource availability. Peaking and low capacity factor units are not routinely tested because their use is based on need for capacity and not on economical generation.

SPS utilizes vibration monitoring at each plant. Data collection and trending is a predictive tool that is being utilized. Changes in vibration levels are monitored and set off an alarm, and data is captured for comparison to past data. Problems have been recognized, and failures have been prevented. Turbine/Generator sets have more detailed vibration collection and analysis. Startups and shutdowns are captured as well as normal operation data.

Steam-path analysis is a tool SPS uses during scheduled turbine outages. The steam-path areas of a turbine are inspected, and precise measurements are taken so that components can be evaluated for wear, deposit buildup and foreign object damage. This process allows SPS to identify components that need to be replaced and helps to prevent a forced outage, while improving the efficiency of the unit.

Lube oil and transformer oil analysis are ways to monitor equipment condition. Oil tests are performed twice per year and results are communicated to the plant. Lube oil is replaced on major equipment based on the test results. Equipment that has shown indications of problems have a complete lube oil analysis done on a more frequent basis to monitor the problem and prevent unnecessary downtime.

Dissolved gas and oil testing, a predictive maintenance tool used heavily for transformer condition assessment, enables SPS to identify localized burning in oil cooled transformers in the incipient stage so that repairs can be planned in conjunction with a scheduled outage of the unit. Early awareness of potential localized burning in the transformer can help prevent catastrophic forced outages of generating units. This testing requires oil samples to be taken from the transformer and evaluated for several gases by the SPS's analytical chemistry lab. Knowledge of the formation of the different gaseous compounds and trending analysis is required to interpret the data.

Equipment Protection

SPS is proactive in the protection of equipment from damage or major failures. Each unit has overspeed protection, temperature monitoring, vibration monitoring and trips, underfrequency relays and trips, as well as electrical protective relays and trips. The larger units also have water induction protection systems to protect from catastrophic turbine failures. These protective devices are in place and enabled to protect the units from both internal failures as well as external conditions that can damage large equipment.

Another area of equipment protection includes the high-energy high-pressure component systems. Boilers and high energy piping systems are protected by safety valves and are routinely inspected and maintained. This maintenance is performed by certified repair contractors at all of SPS's locations. Other safety valves on lower pressure or lower energy components thoughout the plants are on an inspection/replacement schedule.

Energy Supply's Monitoring and Diagnostic Center

Energy Supply's Monitoring and Diagnostic Center was established in 2014 to monitor the performance and health of SPS's generating fleet. Monitoring and diagnostic technology is intended to detect plant abnormalities before they result in equipment failures and lost generation. The diagnostic center offers the potential to improve plant reliability, optimize performance and minimize repair costs. Tolk Station and Harrington Station have been monitored since January 2014 and Jones Station Unit 1 and Unit 2 have been monitored since Sptember 2016.

Maintenance Support Programs

SPS has developed in-house analytical and repair capabilities to support the production maintenance program.

Plant Analytical Services

Plant analysts provide system-wide maintenance support by providing the following services:

1. Non-destructive examination;
    a. Magnetic particle examination;
    b. Ultrasonic testing;
    c. Dye penetrant examination;
    d. Eddy current examination;
    e. Thermal imaging;
2. Chemical analysis;
3. Oil analysis;
4. Metallurgical analysis;
5. Coating specification and analysis;
6. Boiler chemical cleaning; and
7. Generator core condition monitor sample analysis.

Life Management

SPS has developed a program to assist in the life management of the plants. The focus for the life management program is on those problems that present very large risk in terms of cost and/or safety and that may not be readily addressed through normal maintenance activities. Some of the life management program activities include:

- High-energy piping system stress analysis for evaluation of hanger support systems and inspection for creep damage in pipe seams and other high stress locations.
- Life assessment for superheater and reheater sections of the boiler.
- Examinations of areas within the feedwater piping system which may be subject to Flow Accelerated Corrosion.
- Life assessment examination of boiler heavy wall headers and steam drums.
- Life assessments for heat exchangers.
- Generator retaining ring examinations.
- Turbine rotor bore examinations.

This program has been successful in identifying areas of concern and allowing those areas to be repaired or replaced prior to the concern impacting the reliability of the unit. For example, many of SPS's gas plants are of advanced age and have superheaters/reheaters that are near end of life. Life assessments on these components have indicated the need for partial replacements of boiler tubes instead of large scale complete replacements.

Technical Field Service Support

SPS has always had a philosophy of being self sufficient whenever it is cost effective. Because of the high cost of original equipment manufacturer ("OEM") field service engineers and because SPS employees have technical knowledge equal to the OEM personnel, it became cost effective for SPS to develop in-house field service support. Technical experts in the field of turbine/generator support, welding support, controls support, performance monitoring, metallurgy, electrical support, boiler support and continuous emission support are on staff and available for use at the plants as needed. This support staff is utilized first. Additional support from outside resources is utilized during peak times as needed.

Boiler

SPS's Materials Engineering Team administers the Texas State Boiler Repair program. SPS's welders maintain certifications and make the emergency and routine repairs on the boilers. Additional external resources are utilized to deal with peak work times as well as upgrades and large repair projects. Materials Engineering Team develop and maintain the welding procedures. SPS's Materials Engineering Team assists the plants with welding issues and in the certification of welders. Materials Engineering Team also serves to offset OEM personnel by performing in-house boiler inspections and assessments.

Electrical Testing

SPS performs its own electrical tests on generators during overhauls. Plant personnel perform the tests with technical support provided by the Fleet Engineering staff. Without having to depend on OEM technical support, outages are shortened and reduced in costs. Utility equipment experts are utilized as needed to supplement the in-house resources or when issues are encountered that are not routine in nature.

Federal Energy Regulatory Commission ("FERC")/Regional Reliability Organization ("RRO") Standards

SPS generation units are compliant with all mandated maintenance and testing standards as mandated by the FERC and the associated RRO. Maintenance requirements that have been identified in these standards have been incorporated into the Computerized Maintenance Information System program. Examples of required testing include generator protective relay tests as well as monthly, annual, and capacity tests of station batteries.

Computer and Controls Maintenance

Maintenance of plant computers is handled by plant personnel with system-wide support provided by the Fleet Engineering staff. Centralizing the technical support ensures uniform software and hardware upgrades. As computer systems age, manufacturer support decreases. Without the in-house technical expertise that SPS has developed, systems would have to be replaced much sooner than they are now.

Computerized Maintenance Information System

SPS employs a computerized routine maintenance program, project management tools, predictive maintenance practices, a performance assurance program, trained maintenance personnel, and continuing education for plant operators to ensure generation efficiency and cost control. The objective of these activities is to reduce operations and maintenance expenditures while maximizing unit availability. Improved unit availability allows system operations to take best advantage of generation through the most cost-effective units.

Studies

SPS has not performed or contracted for any system-wide production maintenance studies in the past five years.

Southwestern Public Service Company

Nuclear Decommissioning Cost Studies

Schedule H-10 is not applicable to Southwestern Public Service Company ("SPS") because SPS does not own or operate nuclear facilities.

Southwestern Public Service Company

O&M Expenses per Production Plant Expenses
By Primary Fuel Type

Line No.	Plant	2014	2015	2016	2017	2018	2019	Test Year[1]	Fuel Type
1	Harrington	20%	21%	22%	21%	24%	25%	28%	Coal
2	Tolk	14%	18%	17%	17%	22%	22%	26%	Coal
3	Jones	10%	19%	20%	24%	16%	28%	33%	Gas
4	Nichols	18%	42%	42%	35%	26%	42%	38%	Gas
5	Plant X	9%	25%	29%	30%	24%	48%	47%	Gas
6	Moore County	100%	100%	100%	100%	100%	100%	100%	Gas
7	Cunningham	10%	22%	17%	21%	22%	27%	49%	Gas
8	Maddox	13%	25%	37%	23%	25%	25%	57%	Gas
9	Riverview[2]	100%	100%	100%	n/a	n/a	n/a	n/a	Gas
10	Carlsbad[3]	30%	75%	76%	76%	100%	100%	n/a	Gas
11	Quay County	43%	72%	71%	82%	81%	67%	79%	Other
12	Celanese[4]	100%	100%	n/a	n/a	n/a	n/a	100%	Other
13	Tucumcari[5]	100%	100%	100%	100%	n/a	n/a	n/a	Other
14	Gaines County [6]	n/a	n/a	n/a	n/a	100%	3%	n/a	Other
15	Hale	n/a	n/a	n/a	n/a	n/a	100%	100%	Other
16	Sagamore	n/a	n/a	n/a	n/a	n/a	n/a	100%	Other

Notes: [1] Test Year (October 1, 2019 through September 30, 2020).

[2] Riverview was retired from operation in June of 2013.

[3] Carlsbad was retired from operation in December of 2017.

[4] Celanese was retired from operation in June of 2011.

[5] Tucumcari was retired from operation in December of 2011.

[6] Gaines County includes the writeoff of Capital investment.

To calculate the percentage, the Operation and Maintenance FERC accounts were divided by Total production plant expenses that include fuel FERCs 501, 503, and 547.

Historical costs have been restated to reflect current organizational structure.

Southwestern Public Service Company

Maintenance Man-Hour Ratio

TOTAL SPS

Line No.	PLANT	TYPE	YEAR	BD	CM	IM	NE	PM	TOTAL	BD RATIO	CM RATIO	PM RATIO
1	Total SPS	ALL	2015	28,157	76,400	42,903	775	229,650	377,885	7.45%	20.22%	60.77%
2		ALL	2016	26,609	61,607	41,621	72	119,786	249,695	10.66%	24.67%	47.97%
3		ALL	2017	13,378	72,047	-	-	92,238	177,663	7.53%	40.55%	51.92%
4		ALL	2018	14,482	73,279	-	-	115,436	203,197	7.13%	36.06%	56.81%
5		ALL	2019	11,146	58,965	-	-	105,341	175,451	6.35%	33.61%	60.04%
6		ALL	TEST YR	9,485	68,915	-	-	127,221	205,621	4.61%	33.52%	61.87%

COAL

	PLANT	TYPE	YEAR	BD	CM	IM	NE	PM	TOTAL	BD RATIO	CM RATIO	PM RATIO
7	Harrington	Coal	2015	12,855	19,594	16,987	-	61,839	111,275	11.55%	17.61%	55.57%
8		Coal	2016	15,052	19,504	14,743	-	29,400	78,699	19.13%	24.78%	37.36%
9		Coal	2017	5,747	25,983	-	-	17,443	49,173	11.69%	52.84%	35.47%
10		Coal	2018	5,479	24,097	-	-	25,236	54,812	10.00%	43.96%	46.04%
11		Coal	2019	4,061	18,141	-	-	21,420	43,622	9.31%	41.59%	49.10%
12		Coal	TEST YR	3,879	23,762	-	-	34,633	62,273	6.23%	38.16%	55.61%

	PLANT	TYPE	YEAR	BD	CM	IM	NE	PM	TOTAL	BD RATIO	CM RATIO	PM RATIO
13	Tolk	Coal	2015	5,399	27,344	10,791	54	43,324	86,912	6.21%	31.46%	49.85%
14		Coal	2016	3,249	15,514	9,389	2	19,212	47,366	6.86%	32.75%	40.56%
15		Coal	2017	2,518	13,078	-	-	14,160	29,755	8.46%	43.95%	47.59%
16		Coal	2018	3,147	15,658	-	-	16,357	35,162	8.95%	44.53%	46.52%
17		Coal	2019	2,627	13,189	-	-	19,643	35,459	7.41%	37.20%	55.40%
18		Coal	TEST YR	2,418	14,832	-	-	17,409	34,659	6.98%	42.79%	50.23%

	PLANT	TYPE	YEAR	BD	CM	IM	NE	PM	TOTAL	BD RATIO	CM RATIO	PM RATIO
19	Total Coal	Coal	2015	18,254	46,938	27,778	54	105,163	198,187	9.21%	23.68%	53.06%
20		Coal	2016	18,301	35,018	24,132	2	48,612	126,065	14.52%	27.78%	38.56%
21		Coal	2017	8,264	39,060	-	-	31,603	78,927	10.47%	49.49%	40.04%
22		Coal	2018	8,627	39,754	-	-	41,594	89,974	9.59%	44.18%	46.23%
23		Coal	2019	6,688	31,330	-	-	41,063	79,081	8.46%	39.62%	51.93%
24		Coal	TEST YR	6,297	38,594	-	-	52,042	96,933	6.50%	39.81%	53.69%

Southwestern Public Service Company

Maintenance Man-Hour Ratio

GAS

	PLANT	TYPE	YEAR	BD	CM	IM	NE	PM	TOTAL	BD RATIO	CM RATIO	PM RATIO
25	Cunningham 1&2	Gas	2015	1,397	5,655	2,586	26	33,118	42,782	3.27%	13.22%	77.41%
26		Gas	2016	825	6,232	1,188	-	15,502	23,747	3.47%	26.24%	65.28%
27		Gas	2017	1,110	5,710	-	-	15,411	22,231	4.99%	25.68%	69.32%
28		Gas	2018	266	4,108	-	-	19,442	23,816	1.12%	17.25%	81.63%
29		Gas	2019	1,141	8,168	-	-	21,611	30,920	3.69%	26.42%	69.89%
30		Gas	TEST YR	364	7,148	-	-	18,692	26,204	1.39%	27.28%	71.33%

	PLANT	TYPE	YEAR	BD	CM	IM	NE	PM	TOTAL	BD RATIO	CM RATIO	PM RATIO
31	Jones 1&2	Gas	2015	1,600	3,990	2,774	-	11,067	19,431	8.23%	20.53%	56.96%
32		Gas	2016	1,003	5,124	6,652	10	9,261	22,050	4.55%	23.24%	42.00%
33		Gas	2017	1,128	8,466	-	-	3,643	13,236	8.52%	63.96%	27.52%
34		Gas	2018	1,297	12,370	-	-	3,745	17,412	7.45%	71.04%	21.51%
35		Gas	2019	682	7,816	-	-	4,511	13,008	5.24%	60.08%	34.68%
36		Gas	TEST YR	417	9,565	-	-	4,921	14,903	2.80%	64.18%	33.02%

	PLANT	TYPE	YEAR	BD	CM	IM	NE	PM	TOTAL	BD RATIO	CM RATIO	PM RATIO
37	Maddox 1	Gas	2015	1,123	3,220	608	4	24,884	29,839	3.76%	10.79%	83.39%
38		Gas	2016	730	1,846	801	-	17,704	21,081	3.46%	8.76%	83.98%
39		Gas	2017	249	2,710	-	-	7,540	10,498	2.37%	25.81%	71.82%
40		Gas	2018	413	2,671	-	-	14,821	17,905	2.31%	14.91%	82.78%
41		Gas	2019	544	3,431	-	-	7,989	11,964	4.54%	28.68%	66.78%
42		Gas	TEST YR	544	3,587	-	-	5,283	9,414	5.78%	38.10%	56.12%

	PLANT	TYPE	YEAR	BD	CM	IM	NE	PM	TOTAL	BD RATIO	CM RATIO	PM RATIO
43	Moore County	Gas	2015	-	-	-	-	-	-	0.00%	0.00%	0.00%
44		Gas	2016	-	-	-	-	-	-	0.00%	0.00%	0.00%
45		Gas	2017	-	-	-	-	-	-	0.00%	0.00%	0.00%
46		Gas	2018	-	-	-	-	-	-	0.00%	0.00%	0.00%
47		Gas	2019	-	-	-	-	-	-	0.00%	0.00%	0.00%
48		Gas	TEST YR	-	-	-	-	-	-	0.00%	0.00%	0.00%

Southwestern Public Service Company

Maintenance Man-Hour Ratio

	PLANT	TYPE	YEAR	BD	CM	IM	NE	PM	TOTAL	BD RATIO	CM RATIO	PM RATIO
49	Nichols	Gas	2015	1,622	6,448	3,594	28	26,012	37,704	4.30%	17.10%	68.99%
50		Gas	2016	2,168	5,647	1,795	2	7,546	17,158	12.64%	32.91%	43.98%
51		Gas	2017	922	4,647	-	-	14,741	20,309	4.54%	22.88%	72.58%
52		Gas	2018	408	4,358	-	-	18,282	23,047	1.77%	18.91%	79.32%
53		Gas	2019	937	1,768	-	-	13,648	16,352	5.73%	10.81%	83.46%
54		Gas	TEST YR	815	2,380	-	-	25,475	28,670	2.84%	8.30%	88.86%

	PLANT	TYPE	YEAR	BD	CM	IM	NE	PM	TOTAL	BD RATIO	CM RATIO	PM RATIO
55	Plant X	Gas	2015	2,579	6,359	4,441	50	16,131	29,560	8.72%	21.51%	54.57%
56		Gas	2016	2,712	4,810	6,394	50	11,541	25,507	10.63%	18.86%	45.25%
57		Gas	2017	1,147	8,844	-	-	9,139	19,130	6.00%	46.23%	47.77%
58		Gas	2018	2,077	5,883	-	-	13,418	21,378	9.72%	27.52%	62.77%
59		Gas	2019	685	2,056	-	-	12,283	15,024	4.56%	13.68%	81.76%
60		Gas	TEST YR	23	3,491	-	-	16,865	20,379	0.11%	17.13%	82.76%

	PLANT	TYPE	YEAR	BD	CM	IM	NE	PM	TOTAL	BD RATIO	CM RATIO	PM RATIO
61	Total Gas	Gas	2015	8,321	25,672	14,003	108	111,212	159,316	5.22%	16.11%	69.81%
62		Gas	2016	7,438	23,659	16,830	62	61,554	109,543	6.79%	21.60%	56.19%
63		Gas	2017	4,555	30,375	-	-	50,473	85,403	5.33%	35.57%	59.10%
64		Gas	2018	4,461	29,390	-	-	69,708	103,559	4.31%	28.38%	67.31%
65		Gas	2019	3,987	23,238	-	-	60,043	87,268	4.57%	26.63%	68.80%
66		Gas	TEST YR	2,163	26,171	-	-	71,236	99,570	2.17%	26.28%	71.54%

COMBUSTION TURBINE

	PLANT	TYPE	YEAR	BD	CM	IM	NE	PM	TOTAL	BD RATIO	CM RATIO	PM RATIO
67	Carlsbad	CT	2015	91	522	-	-	7	620	14.68%	84.19%	1.13%
68		CT	2016	-	-	-	-	16	16	0.00%	0.00%	100.00%
69		CT	2017	-	-	-	-	-	-	0.00%	0.00%	0.00%
70		CT	2018	-	29	-	-	-	29	0.00%	100.00%	0.00%
71		CT	2019	-	-	-	-	-	-	0.00%	0.00%	0.00%
72		CT	TEST YR	-	-	-	-	-	-	0.00%	0.00%	0.00%

Southwestern Public Service Company

Maintenance Man-Hour Ratio

	PLANT	TYPE	YEAR	BD	CM	IM	NE	PM	TOTAL	BD RATIO	CM RATIO	PM RATIO
73	Cunningham 3&4	CT	2015	329	1,007	25	-	10,869	12,230	2.69%	8.23%	88.87%
74		CT	2016	568	1,204	279	8	7,108	9,167	6.20%	13.13%	77.54%
75		CT	2017	117	506	-	-	7,440	8,063	1.45%	6.27%	92.28%
76		CT	2018	925	1,248	-	-	1,233	3,406	27.17%	36.63%	36.20%
77		CT	2019	51	876	-	-	666	1,593	3.20%	55.01%	41.78%
78		CT	TEST YR	65	1,175	-	-	786	2,026	3.21%	58.00%	38.80%

	PLANT	TYPE	YEAR	BD	CM	IM	NE	PM	TOTAL	BD RATIO	CM RATIO	PM RATIO
79	Jones 3&4	CT	2015	135	1,334	305	-	1,279	3,053	4.42%	43.69%	41.89%
80		CT	2016	215	1,188	289	-	1,539	3,231	6.65%	36.77%	47.63%
81		CT	2017	166	1,393	-	-	1,663	3,221	5.14%	43.24%	51.62%
82		CT	2018	235	1,642	-	-	1,491	3,368	6.96%	48.75%	44.28%
83		CT	2019	34	2,095	-	-	1,828	3,956	0.85%	52.94%	46.21%
84		CT	TEST YR	122	1,586	-	-	1,570	3,278	3.72%	48.38%	47.90%

	PLANT	TYPE	YEAR	BD	CM	IM	NE	PM	TOTAL	BD RATIO	CM RATIO	PM RATIO
85	Maddox 2&3	CT	2015	901	649	73	-	474	2,097	42.97%	30.95%	22.60%
86		CT	2016	87	501	42	-	553	1,183	7.35%	42.35%	46.75%
87		CT	2017	198	344	-	-	275	817	24.25%	42.07%	33.68%
88		CT	2018	138	1,108	-	-	223	1,469	9.39%	75.43%	15.18%
89		CT	2019	158	1,342	-	-	521	2,020	7.80%	66.43%	25.77%
90		CT	TEST YR	422	1,240	-	-	469	2,131	19.80%	58.19%	22.01%

	PLANT	TYPE	YEAR	BD	CM	IM	NE	PM	TOTAL	BD RATIO	CM RATIO	PM RATIO
91	Riverview	CT	2015	-	-	32	613	-	645	0.00%	0.00%	0.00%
92		CT	2016	-	-	-	-	-	-	0.00%	0.00%	0.00%
93		CT	2017	-	-	-	-	-	-	0.00%	0.00%	0.00%
94		CT	2018	-	-	-	-	-	-	0.00%	0.00%	0.00%
95		CT	2019	-	-	-	-	-	-	0.00%	0.00%	0.00%
96		CT	TEST YR	-	-	-	-	-	-	0.00%	0.00%	0.00%

Southwestern Public Service Company

Maintenance Man-Hour Ratio

	PLANT	TYPE	YEAR	BD	CM	IM	NE	PM	TOTAL	BD RATIO	CM RATIO	PM RATIO
97	Quay Co	CT	2015	87	182	579	-	486	1,334	6.52%	13.64%	36.43%
98		CT	2016	-	37	-	-	404	441	0.00%	8.39%	91.61%
99		CT	2017	79	370	-	-	784	1,232	6.37%	30.03%	63.60%
100		CT	2018	97	109	-	-	1,187	1,393	6.96%	7.82%	85.21%
101		CT	2019	-	85	-	-	1,220	1,305	0.00%	6.48%	93.52%
102		CT	TEST YR	14	150	-	-	1,117	1,281	1.09%	11.71%	87.20%

	PLANT	TYPE	YEAR	BD	CM	IM	NE	PM	TOTAL	BD RATIO	CM RATIO	PM RATIO
103	Total CT	CT	2015	1,543	3,694	1,014	613	13,115	19,979	7.72%	18.49%	65.64%
104		CT	2016	870	2,930	610	8	9,620	14,038	6.20%	20.87%	68.53%
105		CT	2017	559	2,612	-	-	10,162	13,333	4.19%	19.59%	76.22%
106		CT	2018	1,395	4,135	-	-	4,134	9,664	14.43%	42.79%	42.78%
107		CT	2019	242	4,397	-	-	4,234	8,873	2.73%	49.55%	47.72%
108		CT	TEST YR	623	4,151	-	-	3,942	8,716	7.15%	47.63%	45.23%

OTHER

	PLANT	TYPE	YEAR	BD	CM	IM	NE	PM	TOTAL	BD RATIO	CM RATIO	PM RATIO
109	Celanese	OTH	2015	-	-	-	-	160	160	0.00%	0.00%	100.00%
110		OTH	2016	-	-	49	-	-	49	0.00%	0.00%	0.00%
111		OTH	2017	-	-	-	-	-	-	0.00%	0.00%	0.00%
112		OTH	2018	-	-	-	-	-	-	0.00%	0.00%	0.00%
113		OTH	2019	-	-	-	-	-	-	0.00%	0.00%	0.00%
114		OTH	TEST YR	-	-	-	-	-	-	0.00%	0.00%	0.00%

	PLANT	TYPE	YEAR	BD	CM	IM	NE	PM	TOTAL	BD RATIO	CM RATIO	PM RATIO
115	Tucumcari	OTH	2015	39	96	108	-	-	243	16.05%	39.51%	0.00%
116		OTH	2016	-	-	-	-	-	-	0.00%	0.00%	0.00%
117		OTH	2017	-	-	-	-	-	-	0.00%	0.00%	0.00%
118		OTH	2018	-	-	-	-	-	-	0.00%	0.00%	0.00%
119		OTH	2019	-	-	-	-	-	-	0.00%	0.00%	0.00%
120		OTH	TEST YR	-	-	-	-	-	-	0.00%	0.00%	0.00%

Southwestern Public Service Company

Maintenance Man-Hour Ratio

	PLANT	TYPE	YEAR	BD	CM	IM	NE	PM	TOTAL	BD RATIO	CM RATIO	PM RATIO
121	Hale Wind[1]	OTH	2015	-	-	-	-	-	-	0.00%	0.00%	0.00%
122		OTH	2016	-	-	-	-	-	-	0.00%	0.00%	0.00%
123		OTH	2017	-	-	-	-	-	-	0.00%	0.00%	0.00%
124		OTH	2018	-	-	-	-	-	-	0.00%	0.00%	0.00%
125		OTH	2019	229	-	-	-	-	229	100.00%	0.00%	0.00%
126		OTH	TEST YR	402	-	-	-	-	402	100.00%	0.00%	0.00%

	PLANT	TYPE	YEAR	BD	CM	IM	NE	PM	TOTAL	BD RATIO	CM RATIO	PM RATIO
127	Total OTH	OTH	2015	39	96	108	-	160	403	9.68%	23.82%	39.70%
128		OTH	2016	-	-	49	-	-	49	0.00%	0.00%	0.00%
129		OTH	2017	-	-	-	-	-	-	0.00%	0.00%	0.00%
130		OTH	2018	-	-	-	-	-	-	0.00%	0.00%	0.00%
131		OTH	2019	229	-	-	-	-	229	100.00%	0.00%	0.00%
132		OTH	TEST YR	402	-	-	-	-	402	100.00%	0.00%	0.00%

*In February 2017, SAP replaced Maximo as the work and asset management system.

BD = "Break Down": failure of equipment or system, and equipment or system is not operational.

CM = "Corrective Maintenance": failure of equipment or system, but equipment or system is still operational.

CT = "Combustion Turbine"

IM = "Improvement Maintenance": improvement of equipment or system.

NE = "Non-Energy": work outside of Energy Supply.

OTH = "Other"

PM = "Preventative Maintenance": systematic inspection, detection, correction, and prevention of incipient failures of equipment or system; equipment or system can be in or out of service.

[1] Maintenance of Hale Wind is performed by Vestas

Southwestern Public Service Company

O&M Cost per MWh

Line No.	PLANT	TYPE	YEAR	NET GENERATION (MWh)	OPER COST	MAINT COST	O&M COST	OPER $/MWh	MAINT $/MWh	O&M $/MWh
1	**Total SPS**	ALL	2015	16,476,374	33,761,279	57,178,236	90,939,515	2.05	3.47	5.52
2		ALL	2016	15,011,035	33,234,606	48,696,030	81,930,636	2.21	3.24	5.46
3		ALL	2017	12,862,011	34,185,604	45,366,404	79,552,008	2.66	3.53	6.19
4		ALL	2018	14,994,980	34,067,863	44,494,037	78,561,901	2.27	2.97	5.24
5		ALL	2019	14,578,624	46,090,802	53,743,050	99,833,851	3.16	3.69	6.85
6		ALL	TEST YEAR	14,542,507	49,152,944	47,042,495	96,195,439	3.38	3.23	6.61

	PLANT	TYPE	YEAR	NET GENERATION (MWh)	OPER COST	MAINT COST	O&M COST	OPER $/MWh	MAINT $/MWh	O&M $/MWh
7	**Harrington**	Coal	2015	5,753,937	10,572,647	16,144,619	26,717,266	1.84	2.81	4.64
8		Coal	2016	5,022,762	10,862,026	14,659,971	25,521,997	2.16	2.92	5.08
9		Coal	2017	4,626,294	10,795,725	13,279,590	24,075,315	2.33	2.87	5.20
10		Coal	2018	4,783,689	10,444,261	11,809,466	22,253,727	2.18	2.47	4.65
11		Coal	2019	3,733,053	12,769,521	14,967,789	27,737,310	3.42	1.17	7.43
12		Coal	TEST YEAR	3,147,673	$ 12,200,059	$ 11,784,086	$ 23,984,145	3.88	0.97	7.62
13	**Tolk**	Coal	2015	6,488,120	7,866,542	18,507,986	26,374,528	1.21	2.85	4.07
14		Coal	2016	5,689,191	7,617,155	11,425,589	19,042,744	1.34	2.01	3.35
15		Coal	2017	5,157,961	7,073,949	13,838,275	20,912,224	1.37	2.68	4.05
16		Coal	2018	3,810,060	6,452,124	14,891,834	21,343,958	1.69	3.91	5.60
17		Coal	2019	2,741,753	8,042,128	10,770,935	18,813,063	2.93	3.93	6.86
18		Coal	TEST YEAR	2,290,867	$ 7,635,655	$ 9,446,785	$ 17,082,440	3.33	4.12	7.46
19	**Total Coal**	Coal	2015	12,242,057	18,439,189	34,652,605	53,091,794	1.51	2.83	4.34
20		Coal	2016	10,711,953	18,479,181	26,085,560	44,564,741	1.73	2.44	4.16
21		Coal	2017	9,784,255	17,869,674	27,117,865	44,987,539	1.83	2.77	4.60
22		Coal	2018	8,593,749	16,896,385	26,701,300	43,597,685	1.97	3.11	5.07
23		Coal	2019	6,474,806	20,811,649	25,738,724	46,550,374	3.21	3.98	7.19
24		Coal	TEST YEAR	5,438,540	$ 19,835,715	$ 21,230,871	$ 41,066,586	7.21	5.09	15.08

Southwestern Public Service Company

O&M Cost per MWh

	PLANT	TYPE	YEAR	NET GENERATION (MWh)	OPER COST	MAINT COST	O&M COST	OPER $/MWh	MAINT $/MWh	O&M $/MWh
25	**Cunningham 1&2**	Gas	2015	682,804	2,083,164	4,394,985	6,478,149	3.05	6.44	9.49
26		Gas	2016	938,739	2,079,456	2,537,562	4,617,018	2.22	2.70	4.92
27		Gas	2017	647,311	2,386,158	2,533,331	4,919,489	3.69	3.91	7.60
28		Gas	2018	778,882	2,789,717	3,446,505	6,236,222	3.58	4.42	8.01
29		Gas	2019	878,867	3,226,074	3,065,847	6,291,921	3.67	3.49	7.16
30		Gas	TEST YEAR	631,548	$ 3,211,656	$ 2,869,485	$ 6,081,141.13	5.09	4.54	9.63
31	**Jones 1&2**	Gas	2015	1,423,162	4,477,861	4,833,795	9,311,656	3.15	3.40	6.54
32		Gas	2016	1,056,906	4,117,770	4,646,667	8,764,437	3.90	4.40	8.29
33		Gas	2017	751,939	4,306,110	4,228,975	8,535,085	5.73	5.62	11.35
34		Gas	2018	1,682,886	4,825,734	2,815,386	7,641,120	2.87	1.67	4.54
35		Gas	2019	1,840,186	6,277,358	5,963,164	12,240,522	3.41	3.24	6.65
36		Gas	TEST YEAR	2,090,122	$ 6,110,314	$ 3,855,047	$ 9,965,361	2.92	1.84	4.77
37	**Maddox 1**	Gas	2015	360,588	1,186,439	1,968,712	3,155,151	3.29	5.46	8.75
38		Gas	2016	263,403	1,093,987	3,361,920	4,455,907	4.15	12.76	16.92
39		Gas	2017	370,918	1,803,731	1,392,419	3,196,150	4.86	3.75	8.62
40		Gas	2018	362,093	1,378,103	1,663,298	3,041,402	3.81	4.59	8.40
41		Gas	2019	580,795	1,728,494	1,612,855	3,341,349	2.98	2.78	5.75
42		Gas	TEST YEAR	541,195	$ 1,976,391	$ 1,429,247	$ 3,405,638	3.65	2.64	6.29
43	**Moore County**	Gas	2015	-	9,429	16,151	25,580	-	-	-
44		Gas	2016	-	10,894	-	10,894	-	-	-
45		Gas	2017	-	3,084	759	3,843	-	-	-
46		Gas	2018	-	2,702	-	2,702	-	-	-
47		Gas	2019	-	3,476	1,142	4,618	-	-	-
48		Gas	TEST YEAR	-	$ 753	$ 761	$ 1,514	-	-	-
49	**Nichols**	Gas	2015	419,405	4,195,814	6,086,130	10,281,944	10.00	14.51	24.52
50		Gas	2016	451,286	4,293,419	5,635,108	9,928,527	9.51	12.49	22.00
51		Gas	2017	401,830	4,191,039	3,461,900	7,652,939	10.43	8.62	19.05
52		Gas	2018	869,806	4,321,988	3,395,928	7,717,916	4.97	3.90	8.87
53		Gas	2019	1,164,273	5,471,328	5,828,057	11,299,385	4.70	5.01	9.71
54		Gas	TEST YEAR	1,286,597	$ 5,823,739	$ 5,472,536	$ 11,296,275	4.53	4.25	8.78
55	**Plant X**	Gas	2015	778,114	2,816,089	3,819,974	6,636,064	3.62	4.91	8.53
56		Gas	2016	626,281	2,582,377	4,118,819	6,701,196	4.12	6.58	10.70
57		Gas	2017	452,898	2,782,227	3,443,295	6,225,522	6.14	7.60	13.75
58		Gas	2018	1,221,177	2,877,390	4,193,253	7,070,643	2.36	3.43	5.79
59		Gas	2019	865,509	3,868,327	7,814,436	11,682,763	4.47	9.03	13.50
60		Gas	TEST YEAR	941,920	$ 4,121,815	$ 6,208,727	$ 10,330,542	4.38	6.59	10.97
61	**Total Gas**	Gas	2015	3,664,073	14,768,797	21,119,748	35,888,544	4.03	5.76	9.79
62		Gas	2016	3,336,615	14,177,903	20,300,076	34,477,979	4.25	6.08	10.33
63		Gas	2017	2,624,896	15,472,349	15,060,679	30,533,028	5.89	5.74	11.63
64		Gas	2018	4,914,844	16,195,634	15,514,370	31,710,005	3.30	3.16	6.45
65		Gas	2019	5,329,630	20,575,057	24,285,501	44,860,558	3.86	4.56	8.42
66		Gas	TEST YEAR	5,491,382	$ 21,244,668	$ 19,835,804	$ 41,080,472	3.87	3.61	7.48

Southwestern Public Service Company

O&M Cost per MWh

	PLANT	TYPE	YEAR	NET GENERATION (MWh)	OPER COST	MAINT COST	O&M COST	OPER $/MWh	MAINT $/MWh	O&M $/MWh
68	**Carlsbad**	CT	2015	145	3,739	48,468	52,207	25.79	334.26	360.05
69		CT	2016	-	1,259	2,304	3,563	-	-	-
70		CT	2017	-	327	211	538	-	-	-
71		CT	2018	-	952	6,964	7,916	-	-	-
72		CT	2019	-	29	75	105	-	-	-
73		CT	TEST YEAR	-	-	-	-	-	-	-
74	**Cunningham 3&4**	CT	2015	255,087	341,964	542,763	884,727	1.34	2.13	3.47
75		CT	2016	402,111	363,621	1,794,571	2,158,192	0.90	4.46	5.37
76		CT	2017	230,366	482,906	2,263,827	2,746,733	2.10	9.83	11.92
77		CT	2018	575,417	358,356	1,210,568	1,568,924	0.62	2.10	2.73
78		CT	2019	828,778	556,744	702,306	1,259,050	0.67	0.85	1.52
79		CT	TEST YEAR	670,194	$ 228,481	$ 431,031	$ 659,512	0.34	0.64	0.98
80	**Jones 3&4**	CT	2015	290,874	14,773	395,124	409,897	0.05	1.36	1.41
81		CT	2016	502,716	12,860	354,044	366,904	0.03	0.70	0.73
82		CT	2017	211,409	192,392	475,196	667,588	0.91	2.25	3.16
83		CT	2018	718,099	186,383	445,221	631,604	0.26	0.62	0.88
84		CT	2019	728,371	4,368	437,567	441,935	0.01	0.60	0.61
85		CT	TEST YEAR	729,273	$ 12,423	$ 403,861	$ 416,284	0.02	0.55	0.57
86	**Maddox 2&3**	CT	2015	23,741	96,630	319,688	416,318	4.07	13.47	17.54
87		CT	2016	57,304	74,944	119,484	194,428	1.31	2.09	3.39
88		CT	2017	10,889	84,275	220,435	304,710	7.74	20.24	27.98
89		CT	2018	192,702	373,612	475,238	848,850	1.94	2.47	4.40
90		CT	2019	307,811	146,323	194,267	340,590	0.48	0.63	1.11
91		CT	TEST YEAR	200,737	$ 140,930	$ 217,178	$ 358,107	0.70	1.08	1.78
92	**Quay Co**	CT	2015	397	91,792	99,149	190,941	231.21	249.75	480.96
93		CT	2016	337	119,157	39,991	159,148	353.87	118.76	472.63
94		CT	2017	196	83,135	228,191	311,326	424.42	1,164.95	1,589.37
95		CT	2018	169	56,541	140,376	196,917	334.11	829.50	1,163.61
96		CT	2019	231	26,490	140,335	166,825	114.63	607.25	721.87
97		CT	TEST YEAR	220	$ 23,083	$ 184,779	$ 207,862	104.87	839.52	944.40
98	**Riverview**[(1)]	CT	2015	-	-	-	-	-	-	-
99		CT	2016	-	-	-	-	-	-	-
100		CT	2017	-	-	-	-	-	-	-
101		CT	2018	-	-	-	-	-	-	-
102		CT	2019	-	-	-	-	-	-	-
103		CT	TEST YEAR	-	-	-	-	-	-	-
104	**Total CT**	CT	2015	570,244	548,898	1,405,193	1,954,090	0.96	2.46	3.43
105		CT	2016	962,468	571,841	2,310,394	2,882,235	0.59	2.40	2.99
106		CT	2017	452,859	843,035	3,187,860	4,030,895	1.86	7.04	8.90
107		CT	2018	1,486,387	975,844	2,278,367	3,254,211	0.66	1.53	2.19
108		CT	2019	1,865,191	733,954	1,474,550	2,208,505	0.39	0.79	1.18
109		CT	TEST YEAR	1,600,424	$ 404,915.96	$ 1,236,848.75	$ 1,641,764.70	0.25	0.77	1.03

Southwestern Public Service Company

O&M Cost per MWh

	PLANT	TYPE	YEAR	NET GENERATION (MWh)	OPER COST	MAINT COST	O&M COST	OPER $/MWh	MAINT $/MWh	O&M $/MWh
110	**Celanese**[2]	OTH	2015	-	-	743	743	-	-	-
111		OTH	2016	-	-	-	-	-	-	-
112		OTH	2017	-	-	-	-	-	-	-
113		OTH	2018	-	-	-	-	-	-	-
114		OTH	2019	-	470	29	499	-	-	-
115		OTH	TEST YEAR	-	76	35	111	-	-	-
116	**Tucumcari**[3]	OTH	2015	-	4,395	(52)	4,343	-	-	-
117		OTH	2016	-	5,681	-	5,681	-	-	-
118		OTH	2017	-	546	-	546	-	-	-
119		OTH	2018	-	-	-	-	-	-	-
120		OTH	2019	-						
121		OTH	TEST YEAR	-	-	-	-	-	-	-
122	**Hale Wind**	OTH	2015	-	-	-	-	-	-	-
123		OTH	2016	-	-	-	-	-	-	-
124		OTH	2017	-	-	-	-	-	-	-
125		OTH	2018	-	-	-	-	-	-	-
126		OTH	2019	908,997	3,969,671	2,244,244	6,213,916	4.37	2.47	6.84
127		OTH	TEST YEAR	2,012,161	$ 7,635,420	$ 4,738,936	$ 12,374,356	3.79	2.36	6.15
128	**Sagamore Wind**	OTH	2015	-	-	-	-	-	-	-
129		OTH	2016	-	-	-	-	-	-	-
130		OTH	2017	-	-	-	-	-	-	-
131		OTH	2018	-	-	-	-	-	-	-
132		OTH	2019	-	-	-	-	-	-	-
133		OTH	TEST YEAR		$32,150	-	$ 32,150	-	-	-
134	**Total OTH**	OTH	2015	-	4,395	691	5,086	-	-	-
135		OTH	2016	-	5,681	-	5,681	-	-	-
136		OTH	2017	-	546	-	546	-	-	-
137		OTH	2018	-	-	-	-	-	-	-
138		OTH	2019	908,997	3,970,141	2,244,273	6,214,415	4.37	2.47	6.84
139		OTH	TEST YEAR	2,012,161	$ 7,667,646	$ 4,738,971	$ 12,406,617	3.81	2.36	6.17

Notes:

CT = "Combustion Turbine"
OTH = "Other"
OPER = "Operation"
MAINT = "Maintenance"
O&M = "Operations & Maintenance"

[1] Riverview was retired from operation in June 2013.

[2] Celanese was retired from operation in June 2011.

[3] Tucumcari was retired from operation in December 2011.

Southwestern Public Service Company

O&M Cost per MWh

Line No.	TOTAL O&M $/MWh PLANT	TYPE	Oct-2019	Nov-2019	Dec-2019	Jan-2020	Feb-2020	Mar-2020	Apr-2020	May-2020	Jun-2020	Jul-2020	Aug-2020	Sep-2020	TOTAL TEST YEAR[1]
1	Harrington	Coal	$ 6.80	$ 6.25	$ 7.31	$ 9.65	$ 13.99	$ 23.12	$ 21.82	$ 11.57	$ 5.74	$ 3.96	$ 2.75	$ 5.20	$ 7.62
2	Tolk	Coal	7.97	5.14	7.91	20.54	11.90	27.90	19.29	7.94	7.35	3.71	1.84	7.54	7.46
3	Subtotal	Coal	$ 7.27	$ 5.71	$ 7.57	$ 11.29	$ 12.96	$ 24.70	$ 20.70	$ 9.76	$ 6.33	$ 3.85	$ 2.35	$ 5.88	$ 7.55
4	Cunningham 1&2	Gas	$ 118.58	$ 56.54	$ 8.80	$ 5.25	$ 9.82	$ 11.91	$ 19.87	$ 12.40	$ 5.60	$ 7.44	$ 4.44	$ 5.18	$ 9.63
5	Jones 1&2	Gas	9.83	8.22	4.43	3.77	3.68	5.39	4.30	7.09	5.54	3.59	2.66	3.87	4.77
6	Maddox 1	Gas	7.56	6.24	14.69	4.86	4.14	4.52	6.06	8.48	12.30	5.09	4.55	7.33	6.29
7	Moore County	Gas	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Nichols	Gas	57.69	14.74	11.55	7.28	7.83	7.33	5.00	9.87	10.04	5.96	5.31	6.60	8.78
9	Plant X	Gas	17.36	13.32	24.94	6.85	6.84	7.12	10.44	13.77	11.00	1.43	13.40	18.71	10.97
10	Subtotal	Gas	$ 18.70	$ 12.38	$ 9.56	$ 5.36	$ 5.84	$ 6.68	$ 6.62	$ 9.79	$ 8.12	$ 4.55	$ 4.46	$ 7.22	$ 7.48
11	Carlsbad	CT	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
12	Cunningham 3&4	CT	0.77	0.66	1.45	1.66	0.56	1.67	-	-	3.86	0.46	0.48	0.60	0.98
13	Jones 3&4	CT	0.09	6.90	0.30	11.24	20.91	1.43	1.33	4.39	0.11	0.52	0.37	1.12	0.57
14	Maddox 2&3	CT	0.54	0.87	17.60	0.97	1.71	1.69	11.22	3.20	1.62	2.02	1.09	2.45	1.78
15	Quay Co	CT	257.48	553.80	-	290.90	739.36	-	-	(92.31)	879.91	-	-	1,161.60	944.40
16	Riverview	CT	-	-	-	-	-	-	-	-	-	-	-	-	-
17	Subtotal	CT	$ 0.45	$ 1.44	$ 1.62	$ 1.84	$ 1.28	$ 1.70	$ 5.48	$ 3.84	$ 0.96	$ 0.66	$ 0.54	$ 1.14	$ 1.03
18	Celanese	OTH	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
19	Tucumcari	OTH	-	-	-	-	-	-	-	-	-	-	-	-	-
20	Hale Wind	OTH	5.50	5.94	6.22	8.12	5.56	6.09	5.20	5.52	4.85	6.59	7.13	8.75	6.15
	Sagamore Wind	OTH	-	-	-	-	-	-	-	-	-	-	-	-	-
21	Subtotal	OTH	$ 5.50	$ 5.94	$ 6.22	$ 8.12	$ 5.56	$ 6.09	$ 5.20	$ 5.52	$ 4.85	$ 6.59	$ 7.13	$ 9.01	$ 6.17
22	**SPS Total**		**$ 8.07**	**$ 7.33**	**$ 7.72**	**$ 7.18**	**$ 7.32**	**$ 9.97**	**$ 9.16**	**$ 8.91**	**$ 5.75**	**$ 3.70**	**$ 3.00**	**$ 6.16**	**$ 6.61**

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Southwestern Public Service Company

O&M Cost per MWh

TOTAL O&M COST

	PLANT	TYPE	Oct-2019	Nov-2019	Dec-2019	Jan-2020	Feb-2020	Mar-2020	Apr-2020	May-2020	Jun-2020	Jul-2020	Aug-2020	Sep-2020	TOTAL TEST YEAR
23	Harrington	Coal	$ 1,736,484	$ 1,975,689	$ 2,090,543	$ 2,071,692	$ 2,122,204	$ 3,286,782	$ 2,275,617	$ 2,349,459	$ 1,409,475	$ 1,765,559	$ 1,313,319	$ 1,587,325	$ 23,984,145
24	Tolk	Coal	1,362,076	1,554,267	1,802,576	1,493,482	1,753,096	1,954,887	1,598,563	1,593,078	1,048,604	1,291,176	686,366	944,270	17,082,440
25	Subtotal	Coal	$ 3,098,560	$ 3,529,956	$ 3,893,119	$ 3,565,174	$ 3,875,299	$ 5,241,668	$ 3,874,180	$ 3,942,537	$ 2,458,078	$ 3,056,735	$ 1,999,685	$ 2,531,595	$ 41,066,586
26	Cunningham 1&2	Gas	$ 565,886	$ 670,764	$ 569,685	$ 430,781	$ 622,822	$ 594,799	$ 601,698	$ 386,558	$ 345,749	$ 520,773	$ 388,889	$ 382,736	$ 6,081,141
27	Jones 1&2	Gas	995,964	1,035,295	897,219	878,629	888,516	1,023,803	794,117	911,459	621,014	694,725	525,234	699,387	9,965,361
28	Maddox 1	Gas	257,025	278,104	378,787	259,892	267,631	312,810	364,375	254,986	299,314	298,135	204,817	229,763	3,405,638
29	Moore County[2]	Gas	98	218	225	179	246	275	574	28	(58)	(49)	(184)	(37)	1,514
30	Nichols	Gas	1,336,310	1,235,415	1,237,319	859,220	1,054,228	1,000,539	779,123	866,956	814,497	827,320	676,226	609,123	11,296,275
31	Plant X	Gas	1,333,671	1,050,358	1,201,274	815,741	776,743	772,247	847,753	1,026,447	710,460	112,558	364,750	1,318,541	10,330,542
32	Subtotal	Gas	$ 4,488,954	$ 4,270,154	$ 4,284,509	$ 3,244,441	$ 3,610,186	$ 3,704,472	$ 3,387,640	$ 3,446,433	$ 2,790,975	$ 2,453,463	$ 2,159,733	$ 3,239,512	$ 41,080,472
33	Carlsbad[2]	CT	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
34	Cunningham 3&4	CT	71,262	41,484	74,646	48,479	35,449	46,152	65,237	3,319	114,188	55,420	51,848	52,030	659,512
35	Jones 3&4	CT	8,837	58,580	7,649	12,886	7,047	43,726	39,508	21,422	14,262	99,937	59,562	42,867	416,284
36	Maddox 2&3	CT	18,518	14,690	22,103	30,662	23,391	23,710	73,727	20,067	23,225	38,211	27,710	42,092	358,107
37	Quay Co	CT	4,274	12,073	21,766	22,079	32,310	9,093	20,788	(1,948)	17,246	25,997	19,323	24,858	207,862
38	Riverview	CT	-	-	-	-	-	-	-	-	-	-	-	-	-
39	Subtotal	CT	$ 102,892	$ 126,826	$ 126,164	$ 114,106	$ 98,197	$ 122,681	$ 199,260	$ 42,860	$ 168,921	$ 219,566	$ 158,443	$ 161,848	$ 1,641,765
40	Celanese	OTH	$ -	$ -	$ -	$ 35	$ -	$ -	$ 76	$ -	$ -	$ -	$ -	$ -	$ 111
41	Tucumcari	OTH	-	-	-	-	-	-	-	-	-	-	-	-	-
42	Hale Wind	OTH	969,075	945,493	1,113,331	1,213,580	987,119	1,104,603	942,430	977,743	1,060,310	982,246	990,011	1,088,414	12,374,356
	Sagamore Wind	OTH	-	-	-	-	-	-	-	-	-	-	-	32,150	32,150
43	Subtotal	OTH	$ 969,075	$ 945,493	$ 1,113,331	$ 1,213,615	$ 987,119	$ 1,104,603	$ 942,507	$ 977,743	$ 1,060,310	$ 982,246	$ 990,011	$ 1,120,564	$ 12,406,617
44	**SPS Total**		**$ 8,659,481**	**$ 8,872,429**	**$ 9,417,123**	**$ 8,137,336**	**$ 8,570,802**	**$ 10,173,424**	**$ 8,403,587**	**$ 8,409,573**	**$ 6,478,284**	**$ 6,712,010**	**$ 5,307,871**	**$ 7,053,519**	**$ 96,195,439**

NET GENERATION (MWh)

	PLANT	TYPE	Oct-2019	Nov-2019	Dec-2019	Jan-2020	Feb-2020	Mar-2020	Apr-2020	May-2020	Jun-2020	Jul-2020	Aug-2020	Sep-2020	TOTAL TEST YEAR
45	Harrington	Coal	255,509	316,224	286,146	214,773	151,665	142,134	104,312	203,002	245,349	445,818	477,303	305,438	3,147,673
46	Tolk	Coal	170,892	302,301	227,849	100,876	147,263	70,062	82,882	200,749	142,751	347,859	372,156	125,227	2,290,867
47	Subtotal	Coal	426,401	618,525	513,995	315,649	298,928	212,196	187,194	403,751	388,100	793,677	849,459	430,665	5,438,540
48	Cunningham 1&2	Gas	4,772	11,864	64,764	82,098	63,408	49,944	30,282	31,174	61,747	70,025	87,564	73,906	631,548
49	Jones 1&2	Gas	101,285	125,909	202,436	232,772	241,473	190,033	184,541	128,562	112,029	193,331	197,209	180,542	2,090,122
50	Maddox 1	Gas	34,009	44,595	25,786	53,508	64,598	69,194	60,137	30,071	24,326	58,592	45,047	31,332	541,195
51	Moore County	Gas	-	-	-	-	-	-	-	-	-	-	-	-	-
52	Nichols	Gas	23,165	83,825	107,167	118,091	134,652	136,489	155,871	87,850	81,111	138,754	127,266	92,356	1,286,597
53	Plant X	Gas	76,819	78,864	48,167	119,133	113,632	108,493	81,193	74,519	64,599	78,814	27,214	70,473	941,920
54	Subtotal	Gas	240,050	345,057	448,320	605,602	617,763	554,153	512,024	352,176	343,812	539,516	484,300	448,609	5,491,382
55	Carlsbad	CT	-	-	-	-	-	-	-	-	-	-	-	-	-
56	Cunningham 3&4	CT	92,899	62,714	51,376	29,139	62,891	27,557	-	-	29,603	120,489	107,290	86,236	670,194
57	Jones 3&4	CT	102,683	8,495	25,117	1,146	337	30,577	29,801	4,876	132,117	193,471	162,257	38,396	729,273
58	Maddox 2&3	CT	34,595	16,917	1,256	31,549	13,708	14,019	6,573	6,263	14,376	18,958	25,374	17,149	200,737
59	Quay Co	CT	17	22	-	76	44	-	-	21	20	-	-	21	220
60	Riverview	CT	-	-	-	-	-	-	-	-	-	-	-	-	-
61	Subtotal	CT	230,194	88,148	77,749	61,910	76,980	72,153	36,374	11,160	176,116	332,918	294,921	141,802	1,600,424
62	Celanese	OTH	-	-	-	-	-	-	-	-	-	-	-	-	-
63	Tucumcari	OTH	-	-	-	-	-	-	-	-	-	-	-	-	-
64	Hale Wind	OTH	176,224	159,234	179,026	149,415	177,472	181,415	181,337	177,106	218,711	148,945	138,929	124,347	2,012,161
65	Sagamore Wind	OTH													
66	Subtotal	OTH	176,224	159,234	179,026	149,415	177,472	181,415	181,337	177,106	218,711	148,945	138,929	124,347	2,012,161
67	**SPS Total**		**1,072,869**	**1,210,964**	**1,219,090**	**1,132,576**	**1,171,143**	**1,019,917**	**916,929**	**944,193**	**1,126,738**	**1,815,056**	**1,767,609**	**1,145,423**	**14,542,507**

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MAINTENANCE $/MWh

	PLANT	TYPE	Oct-2019	Nov-2019	Dec-2019	Jan-2020	Feb-2020	Mar-2020	Apr-2020	May-2020	Jun-2020	Jul-2020	Aug-2020	Sep-2020	TOTAL TEST YEAR
68	Harrington	Coal	$ 2.87	$ 2.86	$ 3.24	$ 4.85	$ 7.93	$ 15.87	$ 12.79	$ 7.11	$ 1.99	$ 1.38	$ 0.64	$ 1.75	$ 3.74
69	Tolk	Coal	4.42	3.20	4.80	8.07	7.61	19.36	13.19	4.82	2.02	1.42	0.68	1.93	4.12
70	Subtotal	Coal	$ 3.49	$ 3.03	$ 3.93	$ 5.88	$ 7.77	$ 17.02	$ 12.97	$ 5.97	$ 2.00	$ 1.40	$ 0.66	$ 1.80	$ 3.90
71	Cunningham 1&2	Gas	$ 61.52	$ 35.81	$ 3.93	$ 2.09	$ 5.07	$ 5.98	$ 7.57	$ 7.87	$ 1.65	$ 4.02	$ 1.25	$ 1.86	$ 4.54
72	Jones 1&2	Gas	3.57	3.64	2.47	1.59	1.45	2.17	2.11	3.45	1.47	1.04	(0.04)	1.17	1.84
73	Maddox 1	Gas	4.43	3.23	6.82	2.34	2.05	2.25	2.11	3.65	4.04	1.92	0.86	1.88	2.64
74	Moore County	Gas	-	-	-	-	-	-	-	-	-	-	-	-	-
75	Nichols	Gas	36.08	9.92	6.55	3.33	4.98	3.85	1.96	4.50	4.17	1.68	1.27	0.87	4.25
76	Plant X	Gas	12.58	8.71	18.28	3.76	4.18	4.41	6.66	8.93	5.13	(3.72)	2.59	13.61	6.59
77	Subtotal	Gas	$ 10.87	$ 7.38	$ 5.60	$ 2.49	$ 3.16	$ 3.37	$ 3.11	$ 5.28	$ 3.01	$ 0.99	$ 0.77	$ 3.23	$ 3.61
78	Carlsbad	CT	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
79	Cunningham 3&4	CT	0.68	0.71	1.04	1.01	0.30	0.70	-	-	3.01	0.19	0.27	0.28	0.64
80	Jones 3&4	CT	0.09	6.88	0.30	10.64	17.46	1.41	1.12	4.25	0.10	0.51	0.36	1.10	0.55
81	Maddox 2&3	CT	0.28	0.43	11.77	0.56	0.78	0.79	4.28	7.78	0.53	1.05	0.53	1.64	1.08
82	Quay Co	CT	202.96	512.78	-	278.88	721.02	-	-	235.72	668.33	-	-	965.30	839.52
83	Riverview	CT	-	-	-	-	-	-	-	-	-	-	-	-	-
84	Subtotal	CT	$ 0.37	$ 1.37	$ 1.25	$ 1.30	$ 0.87	$ 1.13	$ 2.39	$ 8.65	$ 0.70	$ 0.49	$ 0.40	$ 0.81	$ 0.77
85	Celanese	OTH	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
86	Tucumcari	OTH	-	-	-	-	-	-	-	-	-	-	-	-	-
87	Hale Wind	OTH	1.91	2.05	2.26	3.69	2.20	2.45	1.95	2.07	1.87	2.39	2.70	3.44	2.36
	Sagamore Wind	OTH													
88	Subtotal	OTH	$ 1.91	$ 2.05	$ 2.26	$ 3.69	$ 2.20	$ 2.45	$ 1.95	$ 2.07	$ 1.87	$ 2.39	$ 2.70	$ 3.44	$ 2.36
89	**SPS Total**		**$ 4.21**	**$ 4.02**	**$ 4.13**	**$ 3.53**	**$ 4.04**	**$ 5.89**	**$ 4.86**	**$ 5.01**	**$ 2.08**	**$ 1.19**	**$ 0.81**	**$ 2.42**	**$ 3.23**

MAINTENANCE COST

	PLANT	TYPE	Oct-2019	Nov-2019	Dec-2019	Jan-2020	Feb-2020	Mar-2020	Apr-2020	May-2020	Jun-2020	Jul-2020	Aug-2020	Sep-2020	TOTAL TEST YEAR
90	Harrington	Coal	$ 732,317	$ 905,951	$ 925,693	$ 1,042,170	$ 1,203,147	$ 2,254,997	$ 1,333,940	$ 1,442,420	$ 487,568	$ 614,665	$ 306,996	$ 534,223	$ 11,784,086
91	Tolk	Coal	755,965	967,100	1,093,336	814,162	1,120,617	1,356,282	1,093,508	968,126	288,251	494,541	252,965	241,933	9,446,785
92	Subtotal	Coal	$ 1,488,282	$ 1,873,052	$ 2,019,028	$ 1,856,331	$ 2,323,763	$ 3,611,279	$ 2,427,449	$ 2,410,545	$ 775,819	$ 1,109,206	$ 559,960	$ 776,156	$ 21,230,871
93	Cunningham 1&2	Gas	$ 293,590	$ 424,891	$ 254,457	$ 171,888	$ 321,560	$ 298,841	$ 229,167	$ 245,254	$ 101,830	$ 281,523	$ 109,069	$ 137,416	$ 2,869,485
94	Jones 1&2	Gas	$ 361,923	457,924	499,649	370,927	350,678	412,077	390,075	443,213	164,293	201,410	(8,310)	211,190	3,855,047
95	Maddox 1	Gas	$ 150,805	144,193	175,813	125,295	132,630	155,630	126,815	109,826	98,172	112,490	38,533	59,044	1,429,247
96	Moore County	Gas	$ 22	140	144	131	199	228	136	192	(84)	(73)	(210)	(62)	761
97	Nichols	Gas	$ 835,719	831,909	701,555	393,184	670,328	525,388	304,811	395,673	338,315	233,348	161,716	80,590	5,472,536
98	Plant X	Gas	$ 966,551	686,863	880,333	447,347	475,043	478,020	540,904	665,621	331,693	(293,311)	70,599	959,062	6,208,727
99	Subtotal	Gas	$ 2,608,609	$ 2,545,920	$ 2,511,950	$ 1,508,772	$ 1,950,439	$ 1,870,185	$ 1,591,907	$ 1,859,779	$ 1,034,219	$ 535,387	$ 371,397	$ 1,447,240	$ 19,835,804
100	Carlsbad[(2)]	CT	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
101	Cunningham 3&4	CT	63,033	44,238	53,664	29,287	18,595	19,290	15,051	22,106	89,126	23,211	29,087	24,344	431,031
102	Jones 3&4	CT	8,837	58,455	7,649	12,192	5,883	43,000	33,379	20,704	13,548	99,206	58,843	42,165	403,861
103	Maddox 2&3	CT	9,743	7,307	14,786	17,697	10,634	11,068	28,143	48,706	7,623	19,832	13,488	28,153	217,178
104	Quay Co	CT	3,369	11,179	20,885	21,167	31,509	8,012	10,332	4,974	13,099	22,375	17,221	20,657	184,779
105	Riverview	CT	$ -	$ -	$ -	-	-	-	-	-	-	-	-	-	-
106	Subtotal	CT	$ 84,982	$ 121,179	$ 96,983	$ 80,342	$ 66,621	$ 81,370	$ 86,904	$ 96,490	$ 123,397	$ 164,623	$ 118,639	$ 115,319	$ 1,236,849
107	Celanese	OTH	$ -	$ -	$ -	$ 35	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 35
108	Tucumcari	OTH	-	-	-	-	-	-	-	-	-	-	-	-	-
109	Hale Wind	OTH	335,784	326,173	404,262	551,304	389,857	444,157	353,668	366,379	408,574	356,143	375,086	427,549	4,738,936
	Wind Sagamore	OTH													
110	Subtotal	OTH	$ 335,784	$ 326,173	$ 404,262	$ 551,339	$ 389,857	$ 444,157	$ 353,668	$ 366,379	$ 408,574	$ 356,143	$ 375,086	$ 427,549	$ 4,738,971
111	**SPS Total**		**$ 4,517,658**	**$ 4,866,323**	**$ 5,032,224**	**$ 3,996,784**	**$ 4,730,680**	**$ 6,006,991**	**$ 4,459,928**	**$ 4,733,194**	**$ 2,342,008**	**$ 2,165,358**	**$ 1,425,083**	**$ 2,766,264**	**$ 47,042,495**

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2021 TX Rate Case

OPERATIONS $/MWh

	PLANT	TYPE	Oct-2019	Nov-2019	Dec-2019	Jan-2020	Feb-2020	Mar-2020	Apr-2020	May-2020	Jun-2020	Jul-2020	Aug-2020	Sep-2020	TOTAL TEST YEAR
112	Harrington	Coal	$ 3.93	$ 3.38	$ 4.07	$ 4.79	$ 6.06	$ 7.26	$ 9.03	$ 4.47	$ 3.76	$ 2.58	$ 2.11	$ 3.45	$ 3.88
113	Tolk	Coal	3.55	1.94	3.11	6.73	4.29	8.54	6.09	3.11	5.33	2.29	1.16	5.61	3.33
114	Subtotal	Coal	$ 3.78	$ 2.68	$ 3.65	$ 5.41	$ 5.19	$ 7.68	$ 7.73	$ 3.79	$ 4.33	$ 2.45	$ 1.69	$ 4.08	$ 3.65
115	Cunningham 1&2	Gas	$ 57.06	$ 20.72	$ 4.87	$ 3.15	$ 4.75	$ 5.93	$ 12.30	$ 4.53	$ 3.95	$ 3.42	$ 3.20	$ 3.32	$ 5.09
116	Jones 1&2	Gas	6.26	4.59	1.96	2.18	2.23	3.22	2.19	3.64	4.08	2.55	2.71	2.70	2.92
117	Maddox 1	Gas	3.12	3.00	7.87	2.52	2.09	2.27	3.95	4.83	8.27	3.17	3.69	5.45	3.65
118	Moore County	Gas	-	-	-	-	-	-	-	-	-	-	-	-	-
119	Nichols	Gas	21.61	4.81	5.00	3.95	2.85	3.48	3.04	5.36	5.87	4.28	4.04	5.72	4.53
120	Plant X	Gas	4.78	4.61	6.66	3.09	2.66	2.71	3.78	4.84	5.86	5.15	10.81	5.10	4.38
121	Subtotal	Gas	$ 7.83	$ 5.00	$ 3.95	$ 2.87	$ 2.69	$ 3.31	$ 3.51	$ 4.51	$ 5.11	$ 3.56	$ 3.69	$ 4.00	$ 3.87
122	Carlsbad	CT	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
123	Cunningham 3&4	CT	0.09	(0.04)	0.41	0.66	0.27	0.97	-	-	0.85	0.27	0.21	0.32	0.34
124	Jones 3&4	CT	-	0.01	-	0.61	3.45	0.02	0.21	0.15	0.01	0.00	0.00	0.02	0.02
125	Maddox 2&3	CT	0.25	0.44	5.83	0.41	0.93	0.90	6.93	(4.57)	1.09	0.97	0.56	0.81	0.70
126	Quay Co	CT	54.52	41.02	-	12.01	18.34	-	-	(328.03)	211.58	-	-	196.31	104.87
127	Riverview	CT	-	-	-	-	-	-	-	-	-	-	-	-	-
128	Subtotal	CT	$ 0.08	$ 0.06	$ 0.38	$ 0.55	$ 0.41	$ 0.57	$ 3.09	$ (4.81)	$ 0.26	$ 0.17	$ 0.13	$ 0.33	$ 0.25
129	Celanese	OTH	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
130	Tucumcari	OTH	-	-	-	-	-	-	-	-	-	-	-	-	-
131	Hale Wind	OTH	3.59	3.89	3.96	4.43	3.37	3.64	3.25	3.45	2.98	4.20	4.43	5.31	3.79
	Wind Sagamore	OTH	-	-	-	-	-	-	-	-	-	-	-	-	-
132	Subtotal	OTH	$ 3.59	$ 3.89	$ 3.96	$ 4.43	$ 3.37	$ 3.64	$ 3.25	$ 3.45	$ 2.98	$ 4.20	$ 4.43	$ 5.57	$ 3.81
133	**SPS Total**		**$ 3.86**	**$ 3.31**	**$ 3.60**	**$ 3.66**	**$ 3.28**	**$ 4.09**	**$ 4.30**	**$ 3.89**	**$ 3.67**	**$ 2.50**	**$ 2.20**	**$ 3.74**	**$ 3.38**

OPERATIONS COST

	PLANT	TYPE	Oct-2019	Nov-2019	Dec-2019	Jan-2020	Feb-2020	Mar-2020	Apr-2020	May-2020	Jun-2020	Jul-2020	Aug-2020	Sep-2020	TOTAL TEST YEAR
134	Harrington	Coal	$ 1,004,166	$ 1,069,737	$ 1,164,850	$ 1,029,522	$ 919,057	$ 1,031,784	$ 941,676	$ 907,039	$ 921,907	$ 1,150,895	$ 1,006,323	$ 1,053,102	$ 12,200,059
135	Tolk	Coal	606,111	587,167	709,241	679,320	632,479	598,604	505,055	624,953	760,352	796,635	433,401	702,337	7,635,655
136	Subtotal	Coal	$ 1,610,277	$ 1,656,904	$ 1,874,091	$ 1,708,842	$ 1,551,536	$ 1,630,389	$ 1,446,731	$ 1,531,991	$ 1,682,259	$ 1,947,530	$ 1,439,724	$ 1,755,440	$ 19,835,715
137	Cunningham 1&2	Gas	$ 272,296	$ 245,874	$ 315,228	$ 258,893	$ 301,262	$ 295,958	$ 372,532	$ 141,304	$ 243,918	$ 239,250	$ 279,821	$ 245,320	$ 3,211,656
138	Jones 1&2	Gas	634,041	577,371	397,570	507,702	537,838	611,725	404,043	468,246	456,721	493,316	533,545	488,197	6,110,314
139	Maddox 1	Gas	106,220	133,911	202,974	134,596	135,001	157,180	237,560	145,160	201,142	185,645	166,284	170,718	1,976,391
140	Moore County[2]	Gas	76	79	81	48	47	46	438	(164)	25	24	26	26	753
141	Nichols	Gas	500,591	403,506	535,764	466,036	383,900	475,151	474,312	471,283	476,182	593,972	514,510	528,533	5,823,739
142	Plant X	Gas	367,120	363,494	320,941	368,394	301,700	294,227	306,849	360,825	378,767	405,869	294,151	359,478	4,121,815
143	Subtotal	Gas	$ 1,880,345	$ 1,724,234	$ 1,772,559	$ 1,735,669	$ 1,659,747	$ 1,834,287	$ 1,795,733	$ 1,586,653	$ 1,756,757	$ 1,918,076	$ 1,788,336	$ 1,792,272	$ 21,244,668
144	Carlsbad[2]	CT	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
145	Cunningham 3&4	CT	8,229	(2,754)	20,982	19,192	16,854	26,862	50,186	(18,787)	25,062	32,209	22,761	27,686	228,481
146	Jones 3&4	CT	-	124	-	694	1,164	727	6,129	718	713	731	719	703	12,423
147	Maddox 2&3	CT	8,775	7,383	7,318	12,965	12,757	12,642	45,584	(28,639)	15,603	18,379	14,222	13,939	140,930
148	Quay Co	CT	905	894	881	912	802	1,081	10,457	(6,921)	4,147	3,623	2,102	4,201	23,083
149	Riverview	CT	-	-	-	-	-	-	-	-	-	-	-	-	-
150	Subtotal	CT	$ 17,909	$ 5,648	$ 29,180	$ 33,764	$ 31,577	$ 41,311	$ 112,356	$ (53,630)	$ 45,525	$ 54,943	$ 39,804	$ 46,529	$ 404,916
151	Celanese	OTH	$ -	$ -	$ -	$ -	$ -	$ -	$ 76	$ -	$ -	$ -	$ -	$ -	$ 76
152	Tucumcari	OTH	-	-	-	-	-	-	-	-	-	-	-	-	-
153	Hale Wind	OTH	633,291	619,321	709,070	662,276	597,262	660,446	588,763	611,364	651,736	626,103	614,924	660,864	7,635,420
154	Sagamore Wind	OTH				-	-	-	-	-	-	-	-	32,150	32,150
155	Subtotal	OTH	$ 633,291	$ 619,321	$ 709,070	$ 662,276	$ 597,262	$ 660,446	$ 588,839	$ 611,364	$ 651,736	$ 626,103	$ 614,924	$ 693,015	$ 7,667,646
156	**SPS Total**	**ALL**	**$ 4,141,823**	**$ 4,006,106**	**$ 4,384,899**	**$ 4,140,551**	**$ 3,840,121**	**$ 4,166,434**	**$ 3,943,659**	**$ 3,676,379**	**$ 4,136,276**	**$ 4,546,652**	**$ 3,882,789**	**$ 4,287,256**	**$ 49,152,944**

1. The total amounts for the year may not precisely match with the 5 Year Plan because of rounding of the individual months.

2. Straggling costs due to site and security inspections.

Schedule H-11.3
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Sponsor: Low
2021 TX Rate Case

Southwestern Public Service Company

Supply and Load Data (MWh)

Line No.		PRODUCTION							PURCHASED POWER							
		NUCLEAR	LIGNITE	COAL	GAS/OIL	HYDRO	OTHER[3]	SUB TOTAL	QF FIRM	QF NON-FIRM	OTHER FIRM	OTHER NON-FIRM	SUB TOTAL	NET INTER-CHANGE	PRIOR ADJUST	TOTAL SUPPLY
	TEST YEAR															
1	October 2019	N/A	N/A	426,401	470,244	N/A	176,381	1,073,025	97,881	17,892	366,789	996,870	1,479,432	-		2,552,457
2	November 2019	N/A	N/A	618,525	433,205	N/A	159,492	1,211,222	139,700	20,623	239,114	874,408	1,273,846	-		2,485,068
3	December 2019	N/A	N/A	513,995	526,069	N/A	179,252	1,219,316	144,731	22,178	801,330	995,982	1,964,221	-		3,183,537
4	January 2020	N/A	N/A	315,649	667,512	N/A	149,592	1,132,753	141,123	15,707	366,122	1,052,562	1,575,514	-		2,708,267
5	February 2020	N/A	N/A	298,928	694,743	N/A	177,631	1,171,302	136,141	20,770	245,596	980,289	1,382,796	-		2,554,098
6	March 2020	N/A	N/A	212,196	626,306	N/A	181,575	1,020,077	137,323	17,232	294,146	898,971	1,347,673	-		2,367,749
7	April 2020	N/A	N/A	187,194	548,398	N/A	181,257	916,849	84,726	12,750	358,549	948,161	1,404,186	-		2,321,035
8	May 2020	N/A	N/A	403,751	363,336	N/A	177,230	944,317	132,572	11,462	359,609	1,003,546	1,507,189	-		2,451,506
9	June 2020	N/A	N/A	388,100	519,928	N/A	218,750	1,126,778	125,640	9,504	325,183	1,214,839	1,675,166	-		2,801,944
10	July 2020	N/A	N/A	793,677	872,434	N/A	149,075	1,815,186	133,858	12,724	402,770	939,215	1,488,568	-		3,303,754
11	August 2020	N/A	N/A	849,459	779,221	N/A	139,004	1,767,684	134,969	3,878	416,665	910,247	1,465,759	-		3,233,443
12	September 2020	N/A	N/A	430,665	590,411	N/A	128,735	1,149,811	125,081	6,792	356,611	857,996	1,346,480	-		2,496,291
13	**TEST YEAR TOTAL[1]**			**5,438,540**	**7,091,806**		**2,017,975**	**14,548,321**	**1,533,745**	**171,514**	**4,532,484**	**11,673,086**	**17,910,828**	**-**		**32,459,150**
	UPDATE PERIOD															
14	October 2020	N/A	N/A	430,665	590,411	N/A	128,735	1,149,811	125,081	6,792	356,611	857,996	1,346,480	-		2,496,291
15	November 2020	N/A	N/A	430,665	590,411	N/A	128,735	1,149,811	125,081	6,792	356,611	857,996	1,346,480	-		2,496,291
16	December 2020	N/A	N/A	430,665	590,411	N/A	128,735	1,149,811	125,081	6,792	356,611	857,996	1,346,480	-		2,496,291
17	**UPDATED TEST YEAR TOTAL[2]**			**5,171,614**	**7,433,523**		**1,889,055**	**14,494,192**	**1,908,988**	**131,194**	**5,602,317**	**11,379,815**	**17,232,770**	**-**		**31,726,961**

Notes: [1] The Test Year is October 1, 2019 through September 30, 2020.

[2] The Updated Test Year is October 1, 2020 through December 31, 2020.

[3] Hale Wind Project & Sagamore test energy

This schedule contains estimates for the period of October 1, 2020 through December 31, 2020, referred to as the "Update Period." As discussed by Southwestern Public Service Company ("SPS") witness William A. Grant, SPS will file actual costs for the Update Period, including an updated version of this schedule, no later than the 45th day after the date of the initial filing of this rate case, as required by PURA § 36.112.

As discussed in the testimony of William A. Grant, Southwestern Public Service Company ("SPS") has not filed a fuel reconciliation with its current base rate case in accordance with the Order in Project No. 41905 and 16 Tex. Admin. Code ("TAC") § 25.236 as revised in that project. Therefore, fuel reconciliation data is not applicable. Additionally, SPS is not proposing a new fuel factor under 16 TAC § 25.237.
The owned energy production figures shown do not include the de minimus owned solar production.

Southwestern Public Service Company

Supply and Load Data (MWh)

Line No.		TOTAL LOAD	BOOK LOSSES LESS SYSTEM'S OWN USE	SYSTEM'S OWN USE	SALES				
					OFF-SYSTEM NONFIRM	OFF-SYSTEM FIRM	ON-SYSTEM WHOLESALE SALES	RETAIL	TOTAL SALES
	TEST YEAR								
1	October 2019	2,552,457	191,973	1,580	477,089	-	182,374	1,699,441	2,358,904
2	November 2019	2,485,068	157,686	1,032	407,652	-	234,318	1,684,381	2,326,351
3	December 2019	3,183,537	642,350	1,381	575,571	-	196,378	1,767,857	2,539,805
4	January 2020	2,708,267	312,064	1,600	441,954	-	184,029	1,768,620	2,394,604
5	February 2020	2,554,098	331,930	1,952	406,135	-	172,373	1,641,708	2,220,216
6	March 2020	2,367,749	187,428	1,797	335,261	-	185,875	1,657,388	2,178,525
7	April 2020	2,321,035	236,702	1,404	402,731	-	172,924	1,507,274	2,082,928
8	May 2020	2,451,506	237,218	1,242	440,827	-	170,878	1,601,340	2,213,045
9	June 2020	2,801,944	367,636	1,107	479,324	-	195,161	1,758,715	2,433,200
10	July 2020	3,303,754	398,871	1,097	749,553	-	181,077	1,973,156	2,903,786
11	August 2020	3,233,443	353,238	1,219	747,527	-	188,558	1,942,902	2,878,986
12	September 2020	2,496,291	267,256	1,444	382,526	-	147,156	1,697,909	2,227,591
13	**TEST YEAR TOTAL**[1]	**32,459,150**	**3,684,354**	**16,854**	**5,846,150**	**-**	**2,211,101**	**20,700,691**	**28,757,942**
					H-12.5b	**H-12.5b**	**H-12.5f**	**H-12.5f**	
	UPDATE PERIOD								
14	October 2020	2,496,291	267,256	1,444	382,526	-	147,156	1,697,909	2,227,591
15	November 2020	2,496,291	267,256	1,444	382,526	-	147,156	1,697,909	2,227,591
16	December 2020	2,496,291	267,256	1,444	382,526	-	147,156	1,697,909	2,227,591
17	**UPDATED TEST YEAR TOTA**	**31,726,961**	**3,494,112**	**17,194**	**5,533,416**	**-**	**2,039,501**	**20,642,739**	**28,215,656**

Southwestern Public Service Company

Summary of Net MWh Production by Unit (Lignite, Nuclear, & Coal)

Line No.		LIGNITE-FIRED UNIT 1	NUCLEAR PRODUCTION UNIT 1	COAL-FIRED PRODUCTION (NET MWh) HARRINGTON 1	HARRINGTON 2	HARRINGTON 3	TOLK 1	TOLK 2	TOTAL
	TEST YEAR (TY)								
1	October 2019	N/A	N/A	70,855	82,455	102,199	74,795	96,097	426,401
2	November 2019			111,257	86,937	118,030	150,126	152,175	618,525
3	December 2019			81,532	95,453	109,161	85,050	142,799	513,995
4	January 2020			56,886	87,603	70,284	62,697	38,179	315,649
5	February 2020			31,873	51,739	68,053	66,533	80,730	298,928
6	March 2020			37,277	(544)	105,401	(1,262)	71,324	212,196
7	April 2020			52,139	(780)	52,953	28,048	54,834	187,194
8	May 2020			37,611	74,423	90,968	112,313	88,436	403,751
9	June 2020			59,998	89,450	95,901	96,781	45,970	388,100
10	July 2020			140,307	141,613	163,898	136,507	211,352	793,677
11	August 2020			158,468	152,842	165,993	195,984	176,172	849,459
12	September 2020			107,235	76,670	121,533	99,092	26,135	430,665
13	**TOTAL TY**	**N/A**	**N/A**	**945,438**	**937,861**	**1,264,374**	**1,106,664**	**1,184,203**	**5,438,540**

Note: As discussed in the testimony of William A. Grant, Southwestern Public Service Company ("SPS") has not filed a fuel reconciliation with its current base rate case in accordance with the Order in Project No. 41905 and 16 Tex. Admin. Code § 25.236 as revised in that project. Therefore, fuel reconciliation data is not applicable. Additionally, SPS is not proposing a new fuel factor under 16 TAC § 25.237. Therefore, rate year data is not applicable.

Southwestern Public Service Company

Summary of Net MWh Production by Unit (Lignite, Nuclear, Coal), for Previous Five (5) Years

Line No.		LIGNITE-FIRED PRODUCTION	NUCLEAR PRODUCTION	COAL-FIRED PRODUCTION NET MWh					
		UNIT 1	UNIT 1	HARRINGTON 1	HARRINGTON 2	HARRINGTON 3	TOLK 1	TOLK 2	TOTAL
	PREVIOUS YEAR ("PY") 0								
1	January 2019	N/A	N/A	65,684	162,807	143,915	64,571	175,391	612,368
2	February 2019			91,402	102,705	147,443	23,804	161,389	526,743
3	March 2019			(1,255)	164,348	150,933	142,477	59,846	516,349
4	April 2019			(1,207)	119,832	90,993	13,831	80,735	304,184
5	May 2019			25,273	126,638	86,075	70,417	83,092	391,495
6	June 2019			92,683	81,638	133,087	56,828	179,475	543,711
7	July 2019			116,613	74,177	156,884	85,701	218,232	651,607
8	August 2019			140,938	129,468	161,317	190,618	134,703	757,044
9	September 2019			104,573	113,554	94,656	154,551	145,050	612,384
10	October 2019			70,855	82,455	102,199	74,795	96,097	426,401
11	November 2019			111,257	86,937	118,030	150,126	152,175	618,525
12	December 2019			81,532	95,453	109,161	85,050	142,799	513,995
13	**TOTAL PY 0**			**898,348**	**1,340,012**	**1,494,693**	**1,112,769**	**1,628,984**	**6,474,806**
	PREVIOUS YEAR 1								
14	January 2018	N/A	N/A	119,215	146,568	107,740	245,411	190,972	809,906
15	February 2018			94,001	147,503	81,368	181,060	36,113	540,045
16	March 2018			33,558	163,898	112,948	214,155	(391)	524,168
17	April 2018			9,027	141,365	112,238	181,707	(334)	444,003
18	May 2018			176,460	133,201	167,787	220,172	47,008	744,628
19	June 2018			141,291	170,454	157,885	154,470	183,254	807,354
20	July 2018			196,220	212,172	209,883	216,719	198,463	1,033,457
21	August 2018			121,614	179,632	158,346	233,668	222,561	915,821
22	September 2018			93,612	161,717	43,517	165,416	225,310	689,572
23	October 2018			137,606	187,603	(398)	(1,345)	237,333	560,799
24	November 2018			107,233	175,548	111,261	99,862	228,833	722,737
25	December 2018			141,314	175,691	154,612	177,861	151,782	801,260
26	**TOTAL PY 1**			**1,371,151**	**1,995,351**	**1,417,187**	**2,089,156**	**1,720,904**	**8,593,749**

Southwestern Public Service Company

Summary of Net MWh Production by Unit (Lignite, Nuclear, Coal), for Previous Five (5) Years

Line No.		LIGNITE-FIRED PRODUCTION	NUCLEAR PRODUCTION	COAL-FIRED PRODUCTION NET MWh					
		UNIT 1	UNIT 1	HARRINGTON 1	HARRINGTON 2	HARRINGTON 3	TOLK 1	TOLK 2	TOTAL
	PREVIOUS YEAR 2								
27	January 2017	N/A	N/A	113,312	147,255	82,819	135,228	262,333	740,947
28	February 2017			78,539	134,885	144,519	201,447	65,066	624,456
29	March 2017			66,803	156,984	111,192	248,923	-	583,902
30	April 2017			68,596	103,507	102,500	230,631	92,092	597,326
31	May 2017			116,987	(821)	180,131	244,103	255,564	795,964
32	June 2017			163,540	123,281	182,682	279,711	254,937	1,004,151
33	July 2017			170,532	199,247	209,032	320,001	321,337	1,220,149
34	August 2017			183,244	202,365	170,196	312,878	310,208	1,178,891
35	September 2017			124,734	120,611	134,645	211,091	235,573	826,654
36	October 2017			38,202	160,715	72,674	139,352	230,349	641,292
37	November 2017			55,000	166,163	90,593	142,173	241,720	695,649
39	December 2017			106,721	168,694	176,216	176,782	246,462	874,875
40	**TOTAL PY 2**			**1,286,210**	**1,682,885**	**1,657,199**	**2,642,320**	**2,515,641**	**9,784,255**
	PREVIOUS YEAR 3								
41	January 2016	N/A	N/A	92,569	87,815	171,436	278,690	247,893	878,403
42	February 2016			75,947	82,466	140,300	194,722	151,503	644,938
43	March 2016			128,373	113,593	145,334	195,263	146,171	728,734
44	April 2016			154,198	136,855	169,660	164,415	249,566	874,694
45	May 2016			163,128	165,569	76,699	245,903	245,757	897,056
46	June 2016			183,498	186,930	134,161	302,198	305,701	1,112,488
47	July 2016			202,206	197,548	163,698	330,718	330,661	1,224,831
48	August 2016			182,237	201,196	208,599	302,107	291,479	1,185,618
49	September 2016			62,026	114,472	115,538	138,348	271,203	701,587
50	October 2016			(538)	158,860	169,560	143,081	284,361	755,324
51	November 2016			110,234	150,825	130,660	249,322	212,289	853,330
52	December 2016			116,847	173,525	179,690	214,745	193,095	877,902
53	**TOTAL PY 3**			**1,470,725**	**1,769,655**	**1,805,335**	**2,759,512**	**2,929,679**	**10,734,906**

Southwestern Public Service Company

Summary of Net MWh Production by Unit (Lignite, Nuclear, Coal), for Previous Five (5) Years

Line No.		LIGNITE-FIRED PRODUCTION	NUCLEAR PRODUCTION	COAL-FIRED PRODUCTION NET MWh					
		UNIT 1	UNIT 1	HARRINGTON 1	HARRINGTON 2	HARRINGTON 3	TOLK 1	TOLK 2	TOTAL
	PREVIOUS YEAR 4								
54	January 2015	N/A	N/A	181,839	200,065	152,606	337,700	341,645	1,213,855
55	February 2015			157,679	163,376	145,454	267,669	167,164	901,342
56	March 2015			185,207	190,348	198,913	19,999	327,616	922,083
57	April 2015			140,635	166,894	186,162	(1,460)	366,047	858,278
58	May 2015			165,250	114,757	189,578	169,421	322,798	961,804
59	June 2015			187,460	185,843	190,214	280,493	330,659	1,174,669
60	July 2015			170,702	205,214	215,859	260,214	374,454	1,226,443
61	August 2015			154,601	181,466	214,400	364,915	376,189	1,291,571
62	September 2015			185,885	180,217	83,960	306,050	332,206	1,088,318
63	October 2015			171,861	173,245	(370)	300,723	276,244	921,703
64	November 2015			151,046	143,647	15,774	275,572	245,820	831,859
65	December 2015			154,688	129,556	136,452	232,565	213,417	866,678
66	**TOTAL PY 4**			**2,006,853**	**2,034,628**	**1,729,002**	**2,813,861**	**3,674,259**	**12,258,603**
	PREVIOUS YEAR 5								
67	January 2014	N/A	N/A	193,805	16,413	151,540	316,362	351,993	1,030,113
68	February 2014			194,598	(584)	195,023	319,554	323,290	1,031,881
69	March 2014			183,507	(1,149)	185,271	365,432	166,150	899,211
70	April 2014			178,773	6,633	132,415	370,338	-	688,159
71	May 2014			208,870	128,068	81,270	369,422	-	787,630
72	June 2014			178,247	176,360	183,566	361,421	71,426	971,020
73	July 2014			212,538	213,930	213,330	299,899	373,297	1,312,994
74	August 2014			212,414	218,961	218,698	335,740	283,032	1,268,845
75	September 2014			196,157	188,429	180,556	318,437	343,813	1,227,392
76	October 2014			108,271	182,594	196,592	289,439	351,571	1,128,467
77	November 2014			148,918	159,104	161,945	258,322	279,446	1,007,735
78	December 2014			168,247	178,079	178,926	248,783	290,545	1,064,580
79	**TOTAL PY 5**			**2,184,345**	**1,466,838**	**2,079,132**	**3,853,149**	**2,834,563**	**12,418,027**

Southwestern Public Service Company

Summary of Net MWh Production by Unit (Natural Gas/Oil Fired)

Line No.	TEST YEAR (TY)	STEAM TURBINES (NET MWh)														
		CELANESE 2 (1)	CUNNINGHAM 1	CUNNINGHAM 2	JONES 1	JONES 2	MADDOX 1	MOORE COUNTY 3(2)	NICHOLS 1	NICHOLS 2	NICHOLS 3	PLANT X 1	PLANT X 2	PLANT X 3	PLANT X 4	SUB TOTAL
1	October 2019	-	4,772	-	101,370	(85)	34,009	-	(285)	23,652	(202)	(118)	(138)	(117)	77,192	240,050
2	November 2019	-	11,864	-	95,093	30,816	44,595	-	(337)	32,387	51,775	(111)	(114)	(133)	79,222	345,057
3	December 2019	-	31,429	33,335	109,553	92,883	25,786	-	(394)	36,059	71,502	(93)	(126)	(134)	48,520	448,320
4	January 2020	-	17,477	64,621	129,277	103,495	53,508	-	(369)	38,909	79,551	4,939	13,431	(170)	100,933	605,602
5	February 2020	-	-	63,408	119,486	121,987	64,598	-	2,513	45,604	86,535	3,358	20,796	(191)	89,669	617,763
6	March 2020	-	29,718	20,226	117,983	72,050	69,194	-	6,370	47,620	82,499	(208)	26,722	(228)	82,207	554,153
7	April 2020	-	30,282	-	105,232	79,309	60,137	-	44,375	41,756	69,740	(142)	14,651	(203)	66,887	512,024
8	May 2020	-	31,174	-	62,805	65,757	30,071	-	27,465	23,842	36,543	(163)	15,352	(232)	59,562	352,176
9	June 2020	-	22,777	38,970	53,165	58,864	24,326	-	24,786	13,811	42,514	985	16,672	(250)	47,192	343,812
10	July 2020	-	30,498	39,527	108,360	84,971	58,592	-	42,012	38,160	58,582	21,069	27,798	(380)	30,327	539,516
11	August 2020	-	24,778	62,786	91,820	105,389	45,047	-	34,307	33,123	59,836	5,694	21,952	(260)	(172)	484,300
12	September 2020	-	17,274	56,632	96,950	83,592	31,332	-	19,162	27,764	45,430	4,055	9,960	(190)	56,648	448,609
13	**TOTAL TY**	**-**	**252,043**	**379,505**	########	**899,028**	**541,195**	**-**	**199,605**	**402,687**	**684,305**	**39,265**	**166,956**	**(2,488)**	**738,187**	########

Notes: (1) Celanese 2 was removed from service in June of 2011.

(2) Moore County 3 was removed from service in October of 2013.

As discussed in the testimony of William A. Grant, Southwestern Public Service Company ("SPS") has not filed a fuel reconciliation with its current base rate case in accordance with the Order in Project No. 41905 and 16 Tex. Admin. Code § 25.236 as revised in that project. Therefore, fuel reconciliation data is not applicable. Additionally, SPS is not proposing a new fuel factor under 16 TAC § 25.237. Therefore, rate year data is not applicable.

Southwestern Public Service Company

Summary of Net MWh Production by Unit (Natural Gas/Oil Fired)

Line No.	TEST YEAR (TY)	COMBUSTION TURBINES (NET MWh)												
		CARLSBAD 5 [3]	CELANESE 1 [4]	CUNNINGHAM 3	CUNNINGHAM 4	JONES 3	JONES 4	MADDOX 2	MADDOX 3	QUAY COUNTY	RIVERVIEW 6 [5]	TUCUMCARI DIESEL [6]	SUB TOTAL	COMBINED TOTAL
1	October 2019	-	-	67,802	25,097	54,194	48,489	34,585	10	17	-	-	230,194	470,244
2	November 2019	-	-	37,994	24,720	5,749	2,746	16,905	12	22	-	-	88,148	433,205
3	December 2019	-	-	41,726	9,650	20,630	4,487	1,244	12	-	-	-	77,749	526,069
4	January 2020	-	-	14,611	14,528	-	1,146	31,538	11	76	-	-	61,910	667,512
5	February 2020	-	-	45,966	16,925	337	-	13,696	12	44	-	-	76,980	694,743
6	March 2020	-	-	22,722	4,835	29,907	670	14,007	12	-	-	-	72,153	626,306
7	April 2020	-	-	-	-	6,302	23,499	6,560	13	-	-	-	36,374	548,398
8	May 2020	-	-	-	-	1,895	2,981	6,251	12	21	-	-	11,160	363,336
9	June 2020	-	-	29,603	-	59,213	72,904	14,364	12	20	-	-	176,116	519,928
10	July 2020	-	-	63,611	56,878	94,575	98,896	18,952	6	-	-	-	332,918	872,434
11	August 2020	-	-	62,104	45,186	73,670	88,587	25,363	11	-	-	-	294,921	779,221
12	September 2020	-	-	40,021	46,215	20,688	17,708	17,138	11	21	-	-	141,802	590,411
13	**TOTAL TY**	**-**	**-**	**426,160**	**244,034**	**367,160**	**362,113**	**200,603**	**134**	**220**	**-**	**-**	**1,600,424**	**7,091,806**

Notes: [3] Carlsbad 5 was removed from service in December 2017.

[4] Celanese 1 was removed from service in June of 2011.

[5] Riverview 6 was removed from service in June of 2013.

[6] Tucumcari Diesel was removed from service in December of 2011.

Southwestern Public Service Company

Summary of Net MWh Production by Unit (Natural Gas/Oil Fired), for Previous Five (5) Years

Line No.		STEAM TURBINES														
		CELANESE 2[1]	CUNNINGHAM 1	CUNNINGHAM 2	JONES 1	JONES 2	MADDOX 1	MOORE COUNTY 3[2]	NICHOLS 1	NICHOLS 2	NICHOLS 3	PLANT X 1	PLANT X 2	PLANT X 3	PLANT X 4	SUB TOTAL
	PREVIOUS YEAR ("PY") 0															
1	January 2019	-	26,862	25,907	59,652	38,481	43,784		16,432	12,602	20,588	1,380	6,255	23,218	56,143	331,304
2	February 2019	-	17,448	58,697	72,225	-	37,041		11,697	14,352	27,985	4,455	(134)	7,072	32,586	283,425
3	March 2019	-	41,225	7,404	130,467	-	58,777		25,477	25,251	41,449	12,509	(146)	18,494	89,942	450,849
4	April 2019	-	34,203	53,365	102,697	25,378	40,169		31,431	33,242	67,503	9,934	(131)	6,733	(140)	404,384
5	May 2019	-	28,022	87,030	134,637	76,703	69,567		30,156	36,912	63,513	13,815	(183)	34,490	(135)	574,527
6	June 2019	-	40,541	85,701	103,037	92,230	71,790		33,393	36,056	86,784	18,337	13,246	41,606	(114)	622,607
7	July 2019	-	43,211	62,253	113,442	102,412	67,125		36,438	41,941	82,661	13,499	30,605	50,774	(150)	644,211
8	August 2019	-	31,347	87,345	113,199	116,807	59,321		28,949	43,275	65,711	10,010	29,437	44,074	8,321	637,796
9	September 2019	-	19,521	47,385	84,829	44,360	28,831		10,674	25,878	(235)	8,823	19,844	14,294	42,896	347,100
10	October 2019	-	4,772	-	101,370	(85)	34,009		(285)	23,652	(202)	(118)	(138)	(117)	77,192	240,050
11	November 2019	-	11,864	-	95,093	30,816	44,595		(337)	32,387	51,775	(111)	(114)	(133)	79,222	345,057
12	December 2019	-	31,429	33,335	109,553	92,883	25,786		(394)	36,059	71,502	(93)	(126)	(134)	48,520	448,320
13	**TOTAL PY 0**	**-**	**330,445**	**548,422**	**1,220,201**	**619,985**	**580,795**	**-**	**223,632**	**361,607**	**579,034**	**92,440**	**98,415**	**240,371**	**434,283**	**5,329,630**
	PREVIOUS YEAR 1															
14	January 2018	-	3,645	34,495	44,462	56,465	20,681	-	3,895	9,047	22,291	1,386	7,607	9,396	25,329	238,699
15	February 2018	-	11,454	18,432	31,369	62,662	33,629	-	6,383	9,091	19,358	(196)	8,042	15,220	38,467	253,910
16	March 2018	-	12,537	9,735	44,871	64,242	33,075	-	11,198	21,325	24,216	2,791	23,296	11,342	52,734	311,362
17	April 2018	-	31,804	-	67,289	78,496	45,624	-	14,721	16,870	34,991	4,699	9,097	27,341	67,490	398,422
18	May 2018	-	31,790	38,999	71,613	77,261	51,710	-	23,425	21,775	40,085	5,502	31,520	25,348	82,511	501,539
19	June 2018	-	18,419	69,590	64,749	81,624	40,011	-	20,888	21,000	22,999	5,687	17,059	23,238	36,718	421,982
20	July 2018	-	29,004	67,880	88,113	103,902	47,329	-	30,296	33,842	57,638	9,017	32,996	38,596	76,817	615,431
21	August 2018	-	21,246	93,135	63,668	66,996	46,004	-	25,380	26,432	49,871	8,095	13,088	12,997	79,281	506,194
22	September 2018	-	6,098	91,152	80,780	82,161	28,605	-	12,049	25,686	37,964	8,034	24,913	33,914	21,156	452,512
23	October 2018	-	28,253	7,947	99,843	80,864	(184)	-	22,418	29,162	49,840	9,193	28,445	36,400	56,124	448,304
24	November 2018	-	37,395	13,901	75,599	85,516	(217)	-	14,966	19,532	36,621	7,737	20,947	26,033	80,904	418,934
25	December 2018	-	29,741	72,230	47,802	62,539	15,826	-	13,337	14,638	26,576	(181)	3,174	9,264	52,609	347,555
26	**TOTAL PY 1**	**-**	**261,386**	**517,496**	**780,158**	**902,728**	**362,093**	**-**	**198,956**	**248,401**	**422,448**	**61,764**	**220,184**	**269,089**	**670,140**	**4,914,844**
	PREVIOUS YEAR 2															
27	January 2017	-	20,826	39,228	32,803	(129)	22,028	-	21,327	6,428	16,433	(312)	(150)	4,073	26,384	188,939
28	February 2017	-	2,885	32,680	13,139	(157)	32,468	-	(313)	450	6,641	(253)	3,719	(152)	7,649	98,756
29	March 2017	-	8,940	40,408	10,729	28,964	37,562	-	5,650	1,038	12,136	(201)	7,930	8,766	24,591	186,513
30	April 2017	-	5,041	41,234	13,705	33,000	16,384	-	2,611	7,217	4,238	(167)	(131)	6,308	10,323	139,763
31	May 2017	-	5,961	16,900	24,926	40,805	29,262	-	8,186	(242)	13,220	(411)	1,708	1,850	14,042	156,207
32	June 2017	-	20,834	59,998	52,331	64,041	36,683	-	18,705	6,685	19,824	116	7,298	4,794	40,471	331,780
33	July 2017	-	26,762	62,013	69,936	88,929	43,439	-	28,278	21,922	37,895	1,321	18,576	16,791	64,751	480,613
34	August 2017	-	8,081	60,406	45,268	67,812	29,033	-	20,498	17,412	19,059	(259)	7,008	8,451	40,717	323,486
35	September 2017	-	14,084	35,925	15,676	30,795	34,439	-	8,189	10,238	12,807	(152)	(150)	8,079	33,670	203,600
36	October 2017	-	11,990	59,444	(269)	35,679	37,564	-	(284)	4,541	14,979	(154)	7,288	4,079	8,180	183,037
37	November 2017	-	6,377	21,674	(410)	17,840	27,110	-	1,655	3,767	8,634	(120)	(137)	4,339	12,159	102,888
38	December 2017	-	4,313	41,307	30,631	35,895	24,946	-	7,971	6,276	27,759	(195)	7,522	10,393	32,496	229,314
39	**TOTAL PY 2**	**-**	**136,094**	**511,217**	**308,465**	**443,474**	**370,918**	**-**	**122,473**	**85,732**	**193,625**	**(787)**	**60,481**	**77,771**	**315,433**	**2,624,896**

Southwestern Public Service Company

Summary of Net MWh Production by Unit (Natural Gas/Oil Fired), for Previous Five (5) Years

Line No.		COMBUSTION TURBINES												COMBINED TOTAL
		CARLSBAD 5 [3]	CELANESE 1[4]	CUNNINGHAM 3	CUNNINGHAM 4	JONES 3	JONES 4	MADDOX 2	MADDOX 3	QUAY COUNTY	RIVERVIEW 6[5]	TUCUMCARI DIESEL[6]	SUB TOTAL	
	PREVIOUS YEAR ("PY") 0													
1	January 2019	-	-	-	13,962	4,453	4,433	14,385	17	16	-	-	37,266	368,570
2	February 2019	-	-	-	17,666	21,533	19,648	13,554	18	22	-	-	72,441	355,866
3	March 2019	-	-	-	62,244	17,327	30,430	17,477	-	22	-	-	127,500	578,349
4	April 2019	-	-	-	57,035	9,708	7,806	42,258	11	20	-	-	116,838	521,222
5	May 2019	-	-	1,114	63,096	19,753	25,260	47,835	12	20	-	-	157,090	731,617
6	June 2019	-	-	67,132	20,583	19,796	16,014	43,707	9	17	-	-	167,258	789,865
7	July 2019	-	-	69,734	62,754	102,866	96,298	45,224	-	44	-	-	376,920	1,021,131
8	August 2019	-	-	60,955	57,518	54,577	101,047	20,191	11	13	-	-	294,312	932,108
9	September 2019	-	-	38,977	29,019	26,778	14,349	10,334	-	19	-	-	119,476	466,576
10	October 2019	-	-	67,802	25,097	54,194	48,489	34,585	10	17	-	-	230,194	470,244
11	November 2019	-	-	37,994	24,720	5,749	2,746	16,905	12	22	-	-	88,148	433,205
12	December 2019	-	-	41,726	9,650	20,630	4,487	1,244	12	-	-	-	77,749	526,069
13	**TOTAL PY 0**	**-**	**-**	**385,434**	**443,344**	**357,364**	**371,007**	**307,699**	**112**	**231**	**-**	**-**	**1,865,191**	**7,194,821**
	PREVIOUS YEAR 1													
14	January 2018	-	-	7,718	887	11,029	12,287	1,580	12	20	-	-	33,533	272,233
15	February 2018	-	-	8,012	15,433	4,884	3,891	1,389	-	24	-	-	33,633	287,543
16	March 2018	-	-	17,746	23,338	5,518	5,634	3,328	-	34	-	-	55,597	366,959
17	April 2018	-	-	35,629	61,353	4,262	264	19,086	-	21	-	-	120,614	519,036
18	May 2018	-	-	57,543	60,738	23,747	32,875	39,894	-	-	-	-	214,796	716,335
19	June 2018	-	-	25,570	32,006	54,017	63,107	15,080	-	-	-	-	189,780	611,762
20	July 2018	-	-	42,122	59,151	106,809	105,260	12,438	-	-	-	-	325,780	941,211
21	August 2018	-	-	-	39,160	76,825	78,206	12,929	-	-	-	-	207,120	713,314
22	September 2018	-	-	-	38,038	28,114	28,439	15,579	11	21	-	-	110,202	562,714
23	October 2018	-	-	-	40,407	20,114	26,914	32,379	91	23	-	-	119,928	568,232
24	November 2018	-	-	-	-	6,703	8,454	21,894	-	22	-	-	37,073	456,006
25	December 2018	-	-	-	10,569	7,145	3,601	16,999	13	5	-	-	38,332	385,887
26	**TOTAL PY 1**	**-**	**-**	**194,339**	**381,079**	**349,167**	**368,932**	**192,575**	**127**	**169**	**-**	**-**	**1,486,387**	**6,401,231**
	PREVIOUS YEAR 2													
27	January 2017	-	-	-	26,205	17,640	13,030	5,575	13	18	-	-	62,481	251,420
28	February 2017	-	-	-	8,489	(174)	(134)	236	12	18	-	-	8,447	107,203
29	March 2017	-	-	1,579	4,438	(182)	(138)	2,098	14	17	-	-	7,826	194,339
30	April 2017	-	-	1,471	707	4,642	213	-	-	16	-	-	7,048	146,811
31	May 2017	-	-	3,221	6,451	26	(117)	2,883	11	12	-	-	12,487	168,694
32	June 2017	-	-	11,167	18,815	10,017	13,469	-	-	15	-	-	53,482	385,262
33	July 2017	-	-	29,870	35,710	38,315	44,166	-	-	11	-	-	148,072	628,685
34	August 2017	-	-	10,310	12,450	10,510	11,718	-	-	17	-	-	45,005	368,491
35	September 2017	-	-	14,368	12,452	9,649	13,361	-	12	31	-	-	49,872	253,472
36	October 2017	-	-	13,113	16,999	5,598	4,328	-	11	-	-	-	40,049	223,086
37	November 2017	-	-	976	-	5,701	6,572	-	12	20	-	-	13,281	116,169
38	December 2017	-	-	1,578	-	2,025	1,174	-	12	24	-	-	4,813	234,127
39	**TOTAL PY 2**	**-**	**-**	**87,652**	**142,714**	**103,767**	**107,642**	**10,792**	**97**	**196**	**-**	**-**	**452,859**	**3,077,755**

Southwestern Public Service Company

Summary of Net MWh Production by Unit (Natural Gas/Oil Fired), for Previous Five (5) Years

Line No.		STEAM TURBINES														
		CELANESE 2[1]	CUNNINGHAM 1	CUNNINGHAM 2	JONES 1	JONES 2	MADDOX 1	MOORE COUNTY 3[2]	NICHOLS 1	NICHOLS 2	NICHOLS 3	PLANT X 1	PLANT X 2	PLANT X 3	PLANT X 4	SUB TOTAL
	PREVIOUS YEAR 3															
40	January 2016	-	(268)	61,092	31,441	73,547	30,735	-	(406)	(275)	4,740	(120)	2,579	(149)	(184)	202,732
41	February 2016	-	(231)	29,984	(345)	78,584	16,350	-	11,812	(265)	11,407	(123)	(133)	5,914	13,568	166,522
42	March 2016	-	5,368	74,482	(356)	77,095	32,404	-	23,363	(243)	1,375	(119)	(105)	(125)	42,211	255,350
43	April 2016	-	21,645	72,362	43,692	69,137	28,612	-	11,590	(251)	19,204	2,639	5,241	9,182	56,344	339,397
44	May 2016	-	11,326	64,134	46,561	54,593	31,178	-	8,290	697	14,069	(217)	6,381	11,066	15,022	263,100
45	June 2016	-	12,583	60,213	72,204	56,179	24,999	-	16,068	6,566	39,903	(327)	23,677	10,371	40,908	363,344
46	July 2016	-	7,245	72,068	78,961	82,454	42,231	-	8,542	16,479	40,343	4,670	17,360	13,921	62,618	446,892
47	August 2016	-	15,594	69,970	81,957	9,288	42,769	-	18,961	21,513	27,251	4,923	18,627	13,726	61,200	385,779
48	September 2016	-	11,059	37,629	55,381	(131)	14,125	-	10,448	17,345	13,746	1,202	9,504	5,577	18,389	194,274
49	October 2016	-	30,530	76,832	56,508	(112)	-	-	13,958	11,773	18,779	(285)	6,860	6,977	32,935	254,755
50	November 2016	-	31,789	92,487	62,650	(111)	-	-	10,562	10,782	5,873	1,149	15,877	8,783	37,346	277,187
51	December 2016	-	16,700	64,146	27,844	(115)	-	-	12,464	12,738	12,085	3,845	3,503	10,495	23,578	187,283
52	**TOTAL PY 3**	**-**	**163,340**	**775,399**	**556,498**	**500,408**	**263,403**	**-**	**145,652**	**96,859**	**208,775**	**17,237**	**109,371**	**95,738**	**403,935**	**3,336,615**
	PREVIOUS YEAR 4															
53	January 2015	-	5,976	5,664	44,891	29,983	38,094	-	17,872	7,373	1,112	(138)	4,179	23,243	17,372	195,621
54	February 2015	-	5,874	16,777	33,633	25,003	25,128	-	2,107	11,705	-	(144)	11,477	16,235	25,826	173,621
55	March 2015	-	10,701	49,708	63,989	61,389	29,064	-	12,490	5,437	119	(134)	13,451	10,228	64,559	321,001
56	April 2015	-	11,673	80,374	59,096	61,592	32,317	-	2,488	5,355	8,530	1,608	15,583	33,914	54,371	366,901
57	May 2015	-	2,300	29,047	23,478	45,405	32,952	-	3,186	2,069	12,963	(207)	11,419	9,094	24,488	196,194
58	June 2015	-	4,905	58,471	46,099	39,022	37,563	-	5,338	5,677	23,942	(156)	7,500	6,826	41,941	277,128
59	July 2015	-	19,488	48,903	84,019	92,005	39,793	-	26,359	6,222	52,340	3,540	24,961	26,126	75,391	499,147
60	August 2015	-	11,386	72,770	108,452	90,147	42,543	-	27,408	(254)	51,099	94	20,973	27,064	76,632	528,314
61	September 2015	-	7,938	64,093	89,417	42,794	30,512	-	15,361	(187)	27,651	(186)	7,545	3,567	44,214	332,719
62	October 2015	-	13,467	47,355	95,918	(131)	17,631	-	13,277	(181)	20,991	(193)	8,701	7,735	18,195	242,765
63	November 2015	-	9,970	36,857	106,327	25,210	13,368	-	12,503	(219)	16,881	(108)	(85)	(132)	11,575	232,147
64	December 2015	-	-	69,107	62,588	92,836	21,623	-	13,029	(309)	9,671	(104)	4,444	(170)	25,800	298,515
65	**TOTAL PY 4**	**-**	**103,678**	**579,126**	**817,907**	**605,255**	**360,588**	**-**	**151,418**	**42,688**	**225,299**	**3,872**	**130,148**	**163,730**	**480,364**	**3,664,073**
	PREVIOUS YEAR 5															
66	January 2014	-	-	53,019	40,945	54,731	29,742	-	17,624	21,199	27,848	(289)	18,250	21,196	49,167	333,432
67	February 2014	-	17,675	49,343	36,665	54,371	26,411	-	12,947	21,268	31,193	3,703	11,493	18,530	48,095	331,694
68	March 2014	-	5,785	58,396	58,660	48,638	27,209	-	8,125	8,577	6,908	(218)	11,892	25,032	53,806	312,810
69	April 2014	-	14,781	51,221	50,168	60,096	25,643	-	11,659	13,195	18,079	2,451	25,439	40,118	89,641	402,491
70	May 2014	-	11,164	48,382	39,870	47,188	18,663	-	2,264	7,149	31,809	677	14,465	32,499	65,896	320,026
71	June 2014	-	-	41,953	46,750	49,922	34,457	-	2,754	2,066	7,193	(289)	5,979	21,156	56,716	268,657
72	July 2014	-	7,443	39,879	80,556	59,342	29,883	-	6,105	6,785	20,574	1,649	11,310	32,128	62,697	358,351
73	August 2014	-	12,007	80,523	107,755	92,553	48,533	-	18,953	25,733	33,175	3,708	28,136	33,534	95,515	580,125
74	September 2014	-	2,698	11,490	32,559	38,805	17,522	-	6,384	3,610	9,533	(144)	4,011	2,498	23,117	152,083
75	October 2014	-	5,437	55,456	36,752	31,532	39,661	-	6,203	14,644	22,180	(228)	17,288	(289)	48,210	276,846
76	November 2014	-	33,018	84,954	47,558	47,417	59,543	-	7,584	5,036	3,164	(227)	18,491	24,426	55,541	386,505
77	December 2014	-	1,206	83,006	36,777	54,118	34,987	-	7,661	7,408	20,171	(129)	8,887	14,358	60,808	329,258
78	**TOTAL PY 5**	**-**	**111,214**	**657,622**	**615,015**	**638,713**	**392,253**	**-**	**108,263**	**136,670**	**231,827**	**10,664**	**175,641**	**265,186**	**709,209**	**4,052,277**

Notes: [1] Celanese 2 was removed from service in June of 2011.

[2] Moore County 3 was removed from service in October of 2013.

Southwestern Public Service Company

Summary of Net MWh Production by Unit (Natural Gas/Oil Fired), for Previous Five (5) Years

Line No.		COMBUSTION TURBINES												COMBINED TOTAL
		CARLSBAD 5 [3]	CELANESE 1 [4]	CUNNINGHAM 3	CUNNINGHAM 4	JONES 3	JONES 4	MADDOX 2	MADDOX 3	QUAY COUNTY	RIVERVIEW 6 [5]	TUCUMCARI DIESEL [6]	SUB TOTAL	
	PREVIOUS YEAR 3													
40	January 2016	-	-	-	16,202	1,377	2,309	3,147	2	17	-	-	23,053	225,785
41	February 2016	-	-	-	6,294	(153)	3,973	21	2	14	-	-	10,151	176,673
42	March 2016	-	-	471	8,738	3,980	8,027	523	12	17	-	-	21,768	277,118
43	April 2016	-	-	8,584	21,273	5,306	2,617	6,842	48	19	-	-	44,689	384,086
44	May 2016	-	-	11,198	6,237	14,195	12,213	2,262	11	16	-	-	46,131	309,231
45	June 2016	-	-	25,476	30,588	36,184	51,456	6,758	-	18	-	-	150,480	513,823
46	July 2016	-	-	25,710	26,501	41,401	47,358	4,825	10	17	-	-	145,821	592,713
47	August 2016	-	-	13,358	19,063	46,312	46,474	2,640	13	16	-	-	127,876	513,655
48	September 2016	-	-	13,144	7,525	27,338	24,144	2,005	-	104	-	-	74,260	268,534
49	October 2016	-	-	21,233	36,945	16,835	26,459	1,276	-	18	-	-	102,765	357,520
50	November 2016	-	-	24,481	60,761	30,830	22,255	21,628	-	51	-	-	160,005	437,192
51	December 2016	-	-	-	18,332	11,038	20,788	5,279	-	31	-	-	55,468	242,751
52	**TOTAL PY 3**	**-**	**-**	**143,653**	**258,458**	**234,643**	**268,073**	**57,206**	**98**	**337**	**-**	**-**	**962,467**	**4,299,082**
	PREVIOUS YEAR 4													
53	January 2015	13	-	18,801	22,799	5,662	4,034	3,292	18	103	-	-	54,722	250,343
54	February 2015	19	-	14,313	7,951	8,757	9,386	2,205	-	21	-	-	42,651	216,272
55	March 2015	16	-	11,966	8,371	7,546	7,905	1,167	12	21	-	-	37,004	358,005
56	April 2015	-	-	4,341	4,682	7,684	9,984	279	14	20	-	-	27,003	393,904
57	May 2015	-	-	2,068	4,225	5,987	9,782	181	-	15	-	-	22,257	218,451
58	June 2015	15	-	7,270	9,342	17,599	16,389	863	-	20	-	-	51,497	328,625
59	July 2015	31	-	22,041	18,846	22,623	29,767	3,807	-	97	-	-	97,211	596,358
60	August 2015	-	-	18,076	17,051	17,703	29,579	1,326	-	23	-	-	83,757	612,071
61	September 2015	10	-	766	1,280	11,169	21,246	1,142	5	18	-	-	35,636	368,355
62	October 2015	21	-	5,103	22,958	9,696	18,161	2,859	-	20	-	-	58,818	301,583
63	November 2015	20	-	1,647	4,528	11,745	1,707	2,879	35	21	-	-	22,581	254,728
64	December 2015	-	-	9,391	17,278	6,306	457	3,645	12	20	-	-	37,108	335,623
65	**TOTAL PY 4**	**145**	**-**	**115,779**	**139,308**	**132,477**	**158,397**	**23,645**	**96**	**397**	**-**	**-**	**570,244**	**4,234,317**
	PREVIOUS YEAR 5													
66	January 2014	24	-	107	-	3,427	1,920	(36)	-	247	-	-	5,689	339,120
67	February 2014	22	-	(15)	-	(209)	2,826	133	-	51	-	-	2,808	334,501
68	March 2014	22	-	359	-	576	7,632	2,371	16	41	-	-	11,017	323,827
69	April 2014	20	-	7,607	399	2,391	8,995	339	33	22	-	-	19,806	422,297
70	May 2014	19	-	6,689	6,987	9,017	7,799	1,322	-	17	-	-	31,850	351,877
71	June 2014	43	-	10,193	3,023	8,795	8,444	847	41	20	-	-	31,405	300,062
72	July 2014	20	-	11,874	7,804	16,122	4,658	2,033	16	84	-	-	42,610	400,961
73	August 2014	21	-	17,909	13,434	38,929	5,714	1,838	15	18	-	-	77,878	658,003
74	September 2014	20	-	2,936	2,575	7,989	195	383	39	119	-	-	14,256	166,339
75	October 2014	16	-	6,974	11,217	2,576	1,297	2,248	-	31	-	-	24,359	301,205
76	November 2014	23	-	20,424	50,611	11,008	6,135	7,733	11	36	-	-	95,980	482,485
77	December 2014	22	-	45,312	59,168	9,833	3,368	7,584	17	21	-	-	125,325	454,583
78	**TOTAL PY 5**	**272**	**-**	**130,368**	**155,217**	**110,454**	**58,983**	**26,795**	**188**	**706**	**-**	**-**	**482,982**	**4,535,259**

Notes: [3]Carlsbad 5 was removed from service in December of 2017.

[4]Celanese 1 was removed from service in June of 2011.

[5]Riverview 6 was removed from service in June of 2013.

[6]Tucumcari Diesel was removed from service in December of 2011.

Southwestern Public Service Company

Summary of Net MWh Production by Unit (Hydro & Other)

Line No.	TEST YEAR ("TY")	HALE WIND	HYDRO	TOTAL
1	October 2019	176,224	N/A	176,224
2	November 2019	159,234		159,234
3	December 2019	179,026		179,026
4	January 2020	149,415		149,415
5	February 2020	177,472		177,472
6	March 2020	181,415		181,415
7	April 2020	181,337		181,337
8	May 2020	177,106		177,106
9	June 2020	218,711		218,711
10	July 2020	148,945		148,945
11	August 2020	138,929		138,929
12	September 2020	124,347		124,347
13	**TOTAL TY**	**2,012,161**	**N/A**	**2,012,161**

Notes: As discussed in the testimony of William A. Grant, Southwestern Public Service Company ("SPS") has not filed a fuel reconciliation with its current base rate case in accordance with the Order in Project No. 41905 and 16 Tex. Admin. Code § 25.236 ("TAC") as revised in that project. Therefore, fuel reconciliation data is not applicable. Additionally, SPS is not proposing a new fuel factor under 16 TAC § 25.237. Therefore, rate year data is not applicable.

SPS did not own or operate any hydro facilities during the test year.

Southwestern Public Service Company

Summary of Net MWh Production by Unit (Hydro & Other), for Previous Five (5) Years

Line No.	PREVIOUS YEAR ("PY") 0	HALE WIND	HYDRO	TOTAL
1	January 2019	-	N/A	-
2	February 2019	-		-
3	March 2019	-		-
4	April 2019	-		-
5	May 2019	-		-
6	June 2019	12,149		12,149
7	July 2019	130,859		130,859
8	August 2019	100,685		100,685
9	September 2019	150,819		150,819
10	October 2019	176,224		176,224
11	November 2019	159,234		159,234
12	December 2019	179,026		179,026
13	**TOTAL PY 0**	**908,997**	**N/A**	**908,997**

	PREVIOUS YEAR 1	OTHER PRODUCTION SOURCES	HYDRO	TOTAL
14	January 2018	N/A	N/A	N/A
15	February 2018			
16	March 2018			
17	April 2018			
18	May 2018			
19	June 2018			
20	July 2018			
21	August 2018			
22	September 2018			
23	October 2018			
24	November 2018			
25	December 2018			
26	**TOTAL PY 1**	**N/A**	**N/A**	**N/A**

Southwestern Public Service Company

Summary of Net MWh Production by Unit (Hydro & Other), for Previous Five (5) Years

Line No.	PREVIOUS YEAR 2	OTHER PRODUCTION SOURCES	HYDRO	TOTAL
27	January 2017	N/A	N/A	N/A
28	February 2017			
29	March 2017			
30	April 2017			
31	May 2017			
32	June 2017			
33	July 2017			
34	August 2017			
35	September 2017			
36	October 2017			
37	November 2017			
38	December 2017			
39	**TOTAL PY 2**	**N/A**	**N/A**	**N/A**

	PREVIOUS YEAR 3	OTHER PRODUCTION SOURCES	HYDRO	TOTAL
40	January 2016	N/A	N/A	N/A
41	February 2016			
42	March 2016			
43	April 2016			
44	May 2016			
45	June 2016			
46	July 2016			
47	August 2016			
48	September 2016			
49	October 2016			
50	November 2016			
51	December 2016			
52	**TOTAL PY 3**	**N/A**	**N/A**	**N/A**

Southwestern Public Service Company

Summary of Net MWh Production by Unit (Hydro & Other), for Previous Five (5) Years

Line No.	PREVIOUS YEAR 4	OTHER PRODUCTION SOURCES	HYDRO	TOTAL
53	January 2015	N/A	N/A	N/A
54	February 2015			
55	March 2015			
56	April 2015			
57	May 2015			
58	June 2015			
59	July 2015			
60	August 2015			
61	September 2015			
62	October 2015			
63	November 2015			
64	December 2015			
65	**TOTAL PY 4**	**N/A**	**N/A**	**N/A**

	PREVIOUS YEAR 5	OTHER PRODUCTION SOURCES	HYDRO	TOTAL
66	January 2014	N/A	N/A	N/A
67	February 2014			
68	March 2014			
69	April 2014			
70	May 2014			
71	June 2014			
72	July 2014			
73	August 2014			
74	September 2014			
75	October 2014			
76	November 2014			
77	December 2014			
78	**TOTAL PY 5**	**N/A**	**N/A**	**N/A**

Notes: As discussed in the testimony of William A. Grant, Southwestern Public Service Company ("SPS") has not filed a fuel reconciliation with its current base rate case in accordance with the Order in Project No. 41905 and 16 Tex. Admin. Code § 25.236 ("TAC") as revised in that project. Therefore, fuel reconciliation data is not applicable. Additionally, SPS is not proposing a new fuel factor under 16 TAC § 25.237. Therefore, rate year data is not applicable.

SPS did not own or operate any hydro facilities during the historical five year period represented on this schedule.

Southwestern Public Service Company

Generating Unit Data

Line No.	MONTH	UNIT NAME	PRODUCTION MWh GROSS UNIT OUTPUT	PRODUCTION MWh STATION SERVICE	PRODUCTION MWh NET UNIT OUTPUT	OPERATING STATISTICS (%) EQUIV. AVAIL. FACTOR	FORCED OUTAGE RATE	SCHED. OUTAGE FACTOR	NET CAPACITY FACTOR	TIME ON AGC	# OF COLD STARTS	# OF HOT STARTS	HOURS CONNECTED TO LOAD	FUEL CONSUMPTION MILLION Btu COLD START	HOT START	OPERATIONS	TOTAL	NET HEAT RATE Btu/kWh
	TEST YEAR (TY)					%	%	%	%	%								
1	October 2019	Carlsbad 5	-	-	-	-	-	-	-		-	N/A	-	N/A	N/A	-	-	-
2	November 2019	Carlsbad 5	-	-	-	-	-	-	-		-	N/A	-	N/A	N/A	-	-	-
3	December 2019	Carlsbad 5	-	-	-	-	-	-	-		-	N/A	-	N/A	N/A	-	-	-
4	January 2020	Carlsbad 5	-	-	-	-	-	-	-		-	N/A	-	N/A	N/A	-	-	-
5	February 2020	Carlsbad 5	-	-	-	-	-	-	-		-	N/A	-	N/A	N/A	-	-	-
6	March 2020	Carlsbad 5	-	-	-	-	-	-	-		-	N/A	-	N/A	N/A	-	-	-
7	April 2020	Carlsbad 5	-	-	-	-	-	-	-		-	N/A	-	N/A	N/A	-	-	-
8	May 2020	Carlsbad 5	-	-	-	-	-	-	-		-	N/A	-	N/A	N/A	-	-	-
9	June 2020	Carlsbad 5	-	-	-	-	-	-	-		-	N/A	-	N/A	N/A	-	-	-
10	July 2020	Carlsbad 5	-	-	-	-	-	-	-		-	N/A	-	N/A	N/A	-	-	-
11	August 2020	Carlsbad 5	-	-	-	-	-	-	-		-	N/A	-	N/A	N/A	-	-	-
12	September 2020	Carlsbad 5	-	-	-	-	-	-	-		-	N/A	-	N/A	N/A	-	-	-
13	**Total TY**		**-**	**-**	**-**						**-**	**N/A**	**-**	**N/A**	**N/A**	**-**	**-**	**-**
14	October 2019	Cunningham 1	5,302	530	4,772	20.00	80.84	-	9.43		3	N/A	133.90	N/A	N/A	59,678	59,678	12,505.91
15	November 2019	Cunningham 1	12,704	840	11,864	17.50	65.86	-	24.20		1	N/A	246.18	N/A	N/A	135,366	135,366	11,409.83
16	December 2019	Cunningham 1	33,322	1,893	31,429	58.82	-	-	62.12		-	N/A	744.00	N/A	N/A	361,811	361,811	11,512.00
17	January 2020	Cunningham 1	18,596	1,119	17,477	32.76	-	44.31	34.54		-	N/A	414.30	N/A	N/A	198,925	198,925	11,382.09
18	February 2020	Cunningham 1	-	-	-	0.78	-	98.67	-		-	N/A	-	N/A	N/A	-	-	-
19	March 2020	Cunningham 1	31,685	1,967	29,718	58.82	-	-	58.82		1	N/A	709.88	N/A	N/A	346,655	346,655	11,664.80
20	April 2020	Cunningham 1	32,248	1,966	30,282	58.82	-	-	61.85		-	N/A	720.00	N/A	N/A	347,787	347,787	11,484.94
21	May 2020	Cunningham 1	33,313	2,139	31,174	58.82	-	-	61.62		-	N/A	744.00	N/A	N/A	346,961	346,961	11,129.81
22	June 2020	Cunningham 1	24,598	1,821	22,777	58.82	-	-	46.52		-	N/A	548.60	N/A	N/A	275,108	275,108	12,078.32
23	July 2020	Cunningham 1	32,901	2,403	30,498	58.82	-	-	60.28		1	N/A	736.88	N/A	N/A	359,978	359,978	11,803.32
24	August 2020	Cunningham 1	26,726	1,948	24,778	52.34	11.41	-	48.98		2	N/A	636.35	N/A	N/A	301,633	301,633	12,173.41
25	September 2020	Cunningham 1	18,749	1,475	17,274	58.82	-	-	35.28		1	N/A	418.85	N/A	N/A	199,678	199,678	11,559.46
26	**Total TY**		**270,144**	**18,101**	**252,043**	**44.79**	**15.64**	**11.57**	**42.20**		**9**	**N/A**	**6,052.94**	**N/A**	**N/A**	**2,933,579**	**2,933,579**	**11,639.20**
27	October 2019	Cunningham 2	-	-	-	-	100.00	-	-		-	N/A	-	N/A	N/A	-	-	-
28	November 2019	Cunningham 2	-	-	-	-	100.00	-	-		-	N/A	-	N/A	N/A	-	-	-
29	December 2019	Cunningham 2	34,763	1,428	33,335	25.06	62.10	-	24.48		1	N/A	281.95	N/A	N/A	337,877	337,877	10,135.80
30	January 2020	Cunningham 2	67,161	2,540	64,621	52.10	22.57	-	47.46		1	N/A	541.27	N/A	N/A	674,389	674,389	10,436.06
31	February 2020	Cunningham 2	65,924	2,516	63,408	50.16	24.14	-	49.78		-	N/A	528.02	N/A	N/A	639,138	639,138	10,079.77
32	March 2020	Cunningham 2	21,269	1,043	20,226	15.28	43.99	59.00	14.88		1	N/A	169.37	N/A	N/A	233,591	233,591	11,549.03
33	April 2020	Cunningham 2	-	-	-	-	-	100.00	-		-	N/A	-	N/A	N/A	-	-	-
34	May 2020	Cunningham 2	-	-	-	-	-	100.00	-		-	N/A	-	N/A	N/A	-	-	-
35	June 2020	Cunningham 2	41,169	2,199	38,970	50.89	16.21	28.41	29.58		3	N/A	431.91	N/A	N/A	415,359	415,359	10,658.44
36	July 2020	Cunningham 2	41,872	2,345	39,527	36.14	42.85	-	27.11		2	N/A	406.62	N/A	N/A	407,243	407,243	10,302.92
37	August 2020	Cunningham 2	66,203	3,417	62,786	57.74	36.88	-	46.11		3	N/A	448.39	N/A	N/A	639,512	639,512	10,185.58
38	September 2020	Cunningham 2	59,576	2,944	56,632	65.13	-	15.87	42.98		2	N/A	547.19	N/A	N/A	599,905	599,905	10,593.04
39	**Total TY**		**397,937**	**18,432**	**379,505**	**29.30**	**47.47**	**25.13**	**23.47**		**13**	**N/A**	**3,354.72**	**N/A**	**N/A**	**3,947,014**	**3,947,014**	**10,400.43**

Southwestern Public Service Company

Generating Unit Data

Line No.	MONTH	UNIT NAME	PRODUCTION MWh GROSS UNIT OUTPUT	PRODUCTION MWh STATION SERVICE	PRODUCTION MWh NET UNIT OUTPUT	OPERATING STATISTICS (%) EQUIV. AVAIL. FACTOR	FORCED OUTAGE RATE	SCHED. OUTAGE FACTOR	NET CAPACITY FACTOR	TIME ON AGC	# OF COLD STARTS	# OF HOT STARTS	HOURS CONNECTED TO LOAD	FUEL CONSUMPTION MILLION Btu COLD START	HOT START	OPERATIONS	TOTAL	NET HEAT RATE Btu/kWh
	TEST YEAR (TY)					%	%	%	%	%								
40	October 2019	Cunningham 3	67,898	96	67,802	90.96	1.69	-	85.97		3	N/A	699.62	N/A	N/A	784,768	784,768	11,574.41
41	November 2019	Cunningham 3	38,080	86	37,994	92.29	0.33	-	49.71		3	N/A	381.90	N/A	N/A	434,450	434,450	11,434.70
42	December 2019	Cunningham 3	41,820	94	41,726	89.87	3.93	0.61	52.91		13	N/A	396.37	N/A	N/A	487,902	487,902	11,692.99
43	January 2020	Cunningham 3	14,695	84	14,611	91.71	3.92	-	18.53		5	N/A	145.90	N/A	N/A	175,144	175,144	11,987.12
44	February 2020	Cunningham 3	46,056	90	45,966	80.68	17.08	-	62.30		6	N/A	430.20	N/A	N/A	528,831	528,831	11,504.83
45	March 2020	Cunningham 3	22,793	71	22,722	74.75	-	19.15	28.85		4	N/A	233.78	N/A	N/A	262,533	262,533	11,554.13
46	April 2020	Cunningham 3	-	-	-	100.00	-	-	-		-	N/A	-	N/A	N/A	-	-	-
47	May 2020	Cunningham 3	-	-	-	80.36	-	19.64	-		-	N/A	-	N/A	N/A	-	-	-
48	June 2020	Cunningham 3	29,665	62	29,603	99.33	1.47	-	38.57		9	N/A	324.90	N/A	N/A	358,816	358,816	12,120.94
49	July 2020	Cunningham 3	63,725	114	63,611	99.46	0.57	-	80.66		4	N/A	698.02	N/A	N/A	743,751	743,751	11,692.18
50	August 2020	Cunningham 3	62,212	108	62,104	94.13	2.46	-	6.53		3	N/A	703.26	N/A	N/A	757,251	757,251	12,193.28
51	September 2020	Cunningham 3	40,122	101	40,021	77.92	27.69	-	6.53		4	N/A	415.08	N/A	N/A	464,477	464,477	11,605.84
52	**Total TY**		**427,066**	**906**	**426,160**	**89.31**	**6.53**	**3.33**	**6.53**		**54**	**N/A**	**4,429.03**	**N/A**	**N/A**	**4,997,924**	**4,997,924**	**11,727.81**
53	October 2019	Cunningham 4	25,192	95	25,097	68.89	1.01	27.22	32.75		9	N/A	270.18	N/A	N/A	296,913	296,913	11,830.60
54	November 2019	Cunningham 4	24,806	86	24,720	86.90	2.03	7.92	33.29		5	N/A	260.02	N/A	N/A	291,430	291,430	11,789.25
55	December 2019	Cunningham 4	9,744	94	9,650	89.99	28.15	-	12.59		4	N/A	102.85	N/A	N/A	114,310	114,310	11,845.56
56	January 2020	Cunningham 4	14,612	84	14,528	67.36	58.50	-	18.96		7	N/A	154.12	N/A	N/A	170,765	170,765	11,754.19
57	February 2020	Cunningham 4	17,014	89	16,925	94.53	2.52	-	23.61		1	N/A	173.69	N/A	N/A	186,701	186,701	11,031.07
58	March 2020	Cunningham 4	4,906	71	4,835	9.09	92.63	-	6.32		2	N/A	53.44	N/A	N/A	58,029	58,029	12,001.80
59	April 2020	Cunningham 4	-	-	-	-	100.00	-	-		-	N/A	-	N/A	N/A	-	-	-
60	May 2020	Cunningham 4	-	-	-	-	100.00	-	-		-	N/A	-	N/A	N/A	-	-	-
61	June 2020	Cunningham 4	-	-	-	-	100.00	-	-		-	N/A	-	N/A	N/A	404	404	-
62	July 2020	Cunningham 4	56,991	113	56,878	93.70	6.77	-	74.22		6	N/A	644.82	N/A	N/A	687,337	687,337	12,084.41
63	August 2020	Cunningham 4	45,293	107	45,186	76.86	22.69	-	58.96		6	N/A	538.62	N/A	N/A	578,402	578,402	12,800.46
64	September 2020	Cunningham 4	46,315	100	46,215	98.65	1.88	-	62.32		8	N/A	506.95	N/A	N/A	593,846	593,846	12,849.64
65	**Total TY**		**244,873**	**839**	**244,034**	**57.09**	**55.26**	**2.96**	**26.97**		**48**	**N/A**	**2,704.69**	**N/A**	**N/A**	**2,978,135**	**2,978,135**	**12,203.77**
66	October 2019	Harrington 1	81,356	10,501	70,855	96.39	2.40	1.19	28.09		8	N/A	450.48	N/A	N/A	810,900	840,409	11,860.98
67	November 2019	Harrington 1	122,506	11,249	111,257	99.41	-	-	45.52		6	N/A	598.65	N/A	N/A	1,209,282	1,229,880	11,054.41
68	December 2019	Harrington 1	91,227	9,695	81,532	99.94	-	-	32.33		8	N/A	510.85	N/A	N/A	903,365	932,710	11,439.80
69	January 2020	Harrington 1	66,286	9,400	56,886	92.74	11.08	-	22.55		12	N/A	428.84	N/A	N/A	675,393	706,834	12,425.45
70	February 2020	Harrington 1	39,897	8,024	31,873	90.86	0.39	-	13.51		8	N/A	255.55	N/A	N/A	398,000	430,414	13,504.04
71	March 2020	Harrington 1	45,331	8,054	37,277	68.24	45.16	-	14.80		6	N/A	254.32	N/A	N/A	452,522	477,140	12,799.85
72	April 2020	Harrington 1	61,052	8,913	52,139	99.90	0.22	-	21.36		9	N/A	338.15	N/A	N/A	629,699	658,160	12,623.17
73	May 2020	Harrington 1	44,230	6,619	37,611	28.22	64.69	22.58	14.91		3	N/A	199.79	N/A	N/A	449,283	455,329	12,106.27
74	June 2020	Harrington 1	70,823	10,825	59,998	97.59	-	2.29	24.58		9	N/A	385.28	N/A	N/A	701,203	731,953	12,199.63
75	July 2020	Harrington 1	155,500	15,193	140,307	95.62	4.49	-	55.63		6	N/A	664.62	N/A	N/A	1,533,137	1,547,860	11,031.95
76	August 2020	Harrington 1	174,033	15,565	158,468	98.09	-	-	62.83		-	N/A	744.00	N/A	N/A	1,712,497	1,712,528	10,806.77
77	September 2020	Harrington 1	119,025	11,790	107,235	86.09	-	-	43.93		2	N/A	613.43	N/A	N/A	1,178,497	1,188,600	11,084.07
78	**Total TY**		**1,071,266**	**125,828**	**945,438**	**98.09**	**11.00**	**2.20**	**31.75**		**77**	**N/A**	**5,443.96**	**N/A**	**N/A**	**10,653,781**	**10,911,817**	**11,541.55**

Southwestern Public Service Company

Generating Unit Data

Line No.	MONTH	UNIT NAME	PRODUCTION MWh GROSS UNIT OUTPUT	PRODUCTION MWh STATION SERVICE	PRODUCTION MWh NET UNIT OUTPUT	OPERATING STATISTICS (%) EQUIV. AVAIL. FACTOR	FORCED OUTAGE RATE	SCHED. OUTAGE FACTOR	NET CAPACITY FACTOR	TIME ON AGC	# OF COLD STARTS	# OF HOT STARTS	HOURS CONNECTED TO LOAD	FUEL CONSUMPTION MILLION Btu COLD START	HOT START	OPERATIONS	TOTAL	NET HEAT RATE Btu/kWh
	TEST YEAR (TY)					%	%	%	%	%								
79	October 2019	Harrington 2	90,723	8,268	82,455	93.70	8.11	-	32.69		8	N/A	498.75	N/A	N/A	904,394	926,780	11,239.83
80	November 2019	Harrington 2	95,024	8,087	86,937	97.25	4.24	-	35.57		9	N/A	447.52	N/A	N/A	936,948	962,895	11,075.78
81	December 2019	Harrington 2	104,176	8,723	95,453	96.74	1.02	2.46	37.85		8	N/A	510.24	N/A	N/A	1,025,394	1,046,267	10,961.06
82	January 2020	Harrington 2	95,991	8,388	87,603	97.91	2.87	-	34.73		7	N/A	524.68	N/A	N/A	949,893	968,000	11,049.85
83	February 2020	Harrington 2	57,358	5,619	51,739	72.59	-	27.41	21.93		6	N/A	289.87	N/A	N/A	574,304	588,815	11,380.48
84	March 2020	Harrington 2	-	544	(544)	-	-	100.00	(0.22)		-	N/A	-	N/A	N/A	-	-	-
85	April 2020	Harrington 2	-	780	(780)	-	-	100.00	(0.32)		-	N/A	-	N/A	N/A	-	-	-
86	May 2020	Harrington 2	82,526	8,103	74,423	57.36	-	30.92	29.51		4	N/A	379.20	N/A	N/A	837,980	864,413	11,614.86
87	June 2020	Harrington 2	98,751	9,301	89,450	98.37	0.16	-	36.65		11	N/A	551.92	N/A	N/A	1,030,834	1,058,302	11,831.21
88	July 2020	Harrington 2	152,677	11,064	141,613	86.58	-	12.57	56.15		1	N/A	650.48	N/A	N/A	1,559,696	1,564,322	11,046.46
89	August 2020	Harrington 2	164,756	11,914	152,842	96.62	0.13	3.26	60.60		5	N/A	673.90	N/A	N/A	1,671,967	1,682,588	11,008.67
90	September 2020	Harrington 2	84,387	7,717	76,670	87.57	2.05	11.31	31.41		7	N/A	384.60	N/A	N/A	839,724	858,966	11,203.42
91	**Total TY**		**1,026,369**	**88,508**	**937,861**	**73.77**	**1.89**	**23.92**	**31.50**		**66**	**N/A**	**4,911.16**	**N/A**	**N/A**	**10,331,132**	**10,521,347**	**11,218.45**
92	October 2019	Harrington 3	110,692	8,493	102,199	99.07	0.48	-	40.40		7	N/A	632.65	N/A	N/A	1,077,028	1,113,066	10,891.16
93	November 2019	Harrington 3	126,651	8,621	118,030	90.03	5.87	-	48.15		4	N/A	593.27	N/A	N/A	1,235,715	1,251,827	10,606.01
94	December 2019	Harrington 3	118,292	9,131	109,161	90.50	-	-	43.15		7	N/A	595.12	N/A	N/A	1,139,328	1,156,787	10,597.07
95	January 2020	Harrington 3	76,698	6,414	70,284	72.06	15.28	5.23	27.78		9	N/A	442.26	N/A	N/A	738,949	759,074	10,800.10
96	February 2020	Harrington 3	74,593	6,540	68,053	99.69	-	-	28.76		7	N/A	412.30	N/A	N/A	729,251	747,143	10,978.83
97	March 2020	Harrington 3	115,110	9,709	105,401	99.68	-	-	41.72		6	N/A	622.95	N/A	N/A	1,128,855	1,143,224	10,846.43
98	April 2020	Harrington 3	59,601	6,648	52,953	81.08	-	-	21.63		8	N/A	354.47	N/A	N/A	587,398	606,578	11,455.03
99	May 2020	Harrington 3	99,692	8,724	90,968	75.74	-	-	35.96		4	N/A	598.88	N/A	N/A	988,150	999,851	10,991.24
100	June 2020	Harrington 3	105,845	9,944	95,901	97.68	-	2.32	39.18		10	N/A	552.95	N/A	N/A	1,036,566	1,065,322	11,108.56
101	July 2020	Harrington 3	175,633	11,735	163,898	99.66	-	-	64.79		1	N/A	738.38	N/A	N/A	1,725,078	1,728,117	10,543.86
102	August 2020	Harrington 3	178,027	12,034	165,993	99.98	0.03	-	65.62		5	N/A	721.17	N/A	N/A	1,739,416	1,749,588	10,540.13
103	September 2020	Harrington 3	133,176	11,643	121,533	100.00	-	-	49.65		6	N/A	544.20	N/A	N/A	1,294,469	1,311,136	10,788.31
104	**Total TY**		**1,374,010**	**109,636**	**1,264,374**	**92.05**	**1.73**	**0.63**	**42.34**		**74**	**N/A**	**6,808.60**	**N/A**	**N/A**	**13,420,203**	**13,631,714**	**10,781.39**
105	October 2019	Jones 1	107,411	6,041	101,370	97.58	-	-	56.07		2	N/A	689.40	N/A	N/A	1,078,546	1,078,546	10,639.69
106	November 2019	Jones 1	100,769	5,676	95,093	98.20	1.78	-	54.28		4	N/A	665.99	N/A	N/A	1,021,081	1,021,186	10,738.82
107	December 2019	Jones 1	115,799	6,246	109,553	94.85	-	-	60.60		5	N/A	693.42	N/A	N/A	1,158,645	1,158,645	10,576.11
108	January 2020	Jones 1	136,327	7,050	129,277	97.31	-	-	71.51		5	N/A	700.18	N/A	N/A	1,390,081	1,390,081	10,752.73
109	February 2020	Jones 1	126,042	6,556	119,486	92.49	2.23	-	70.65		4	N/A	634.27	N/A	N/A	1,249,788	1,249,788	10,459.70
110	March 2020	Jones 1	124,500	6,517	117,983	93.84	2.78	-	65.35		5	N/A	612.23	N/A	N/A	1,268,481	1,268,481	10,751.38
111	April 2020	Jones 1	111,389	6,157	105,232	89.67	0.94	-	60.15		6	N/A	664.42	N/A	N/A	1,150,465	1,150,465	10,932.66
112	May 2020	Jones 1	67,269	4,464	62,805	92.58	-	6.45	34.74		4	N/A	643.77	N/A	N/A	699,608	699,608	11,139.37
113	June 2020	Jones 1	56,778	3,613	53,165	78.19	-	21.81	30.39		6	N/A	516.32	N/A	N/A	620,578	620,578	11,672.68
114	July 2020	Jones 1	115,057	6,697	108,360	97.05	-	-	59.94		3	N/A	725.92	N/A	N/A	1,194,431	1,194,431	11,022.80
115	August 2020	Jones 1	97,644	5,824	91,820	90.57	9.83	-	50.79		7	N/A	622.45	N/A	N/A	991,502	991,502	10,798.32
116	September 2020	Jones 1	102,904	5,954	96,950	99.77	-	-	55.41		5	N/A	665.95	N/A	N/A	1,026,695	1,026,695	10,589.94
117	**Total TY**		**1,261,889**	**70,795**	**1,191,094**	**93.54**	**1.49**	**2.33**	**55.80**		**56**	**N/A**	**7,834.32**	**N/A**	**N/A**	**12,849,899**	**12,850,005**	**10,788.41**

Southwestern Public Service Company

Generating Unit Data

Line No.	MONTH	UNIT NAME	PRODUCTION MWh GROSS UNIT OUTPUT	PRODUCTION MWh STATION SERVICE	PRODUCTION MWh NET UNIT OUTPUT	OPERATING STATISTICS (%) EQUIV. AVAIL. FACTOR	FORCED OUTAGE RATE	SCHED. OUTAGE FACTOR	NET CAPACITY FACTOR	TIME ON AGC	# OF COLD STARTS	# OF HOT STARTS	HOURS CONNECTED TO LOAD	FUEL CONSUMPTION MILLION Btu COLD START	HOT START	OPERATIONS	TOTAL	NET HEAT RATE Btu/kWh
	TEST YEAR (TY)					%	%	%	%	%								
118	October 2019	Jones 2	-	85	(85)	-	100.00	-	(0.05)		-	N/A	-	N/A	N/A	-	-	-
119	November 2019	Jones 2	32,862	2,046	30,816	40.86	61.82	-	17.59		2	N/A	253.78	N/A	N/A	332,986	333,134	10,810.43
120	December 2019	Jones 2	98,498	5,615	92,883	84.65	10.99	-	51.38		5	N/A	619.13	N/A	N/A	985,536	985,536	10,610.51
121	January 2020	Jones 2	109,459	5,964	103,495	81.85	15.83	-	57.25		4	N/A	593.50	N/A	N/A	1,116,116	1,116,116	10,784.25
122	February 2020	Jones 2	128,777	6,790	121,987	94.55	-	-	72.13		2	N/A	665.50	N/A	N/A	1,276,906	1,276,906	10,467.56
123	March 2020	Jones 2	76,473	4,423	72,050	71.00	31.47	-	39.91		5	N/A	406.69	N/A	N/A	779,153	779,153	10,814.05
124	April 2020	Jones 2	84,279	4,970	79,309	79.59	14.66	-	45.33		5	N/A	511.37	N/A	N/A	870,460	870,460	10,975.55
125	May 2020	Jones 2	70,477	4,720	65,757	94.94	5.34	-	36.37		6	N/A	610.23	N/A	N/A	733,138	733,138	11,149.20
126	June 2020	Jones 2	63,051	4,187	58,864	88.88	12.19	-	33.64		6	N/A	576.35	N/A	N/A	689,141	689,141	11,707.35
127	July 2020	Jones 2	90,574	5,603	84,971	84.93	13.27	-	47.00		2	N/A	594.23	N/A	N/A	940,267	940,267	11,065.74
128	August 2020	Jones 2	112,040	6,651	105,389	99.54	-	-	58.29		6	N/A	717.00	N/A	N/A	1,137,683	1,137,683	10,795.08
129	September 2020	Jones 2	88,880	5,288	83,592	86.67	-	13.33	47.78		6	N/A	569.93	N/A	N/A	886,775	886,775	10,608.37
130	**Total TY**		**955,370**	**56,342**	**899,028**	**75.53**	**22.96**	**1.09**	**42.12**		**49**	**N/A**	**6,117.71**	**N/A**	**N/A**	**9,748,161**	**9,748,309**	**10,843.17**
131	October 2019	Jones 3	54,523	329	54,194	97.72	5.10	-	39.80		15	N/A	315.30	N/A	N/A	562,973	562,973	10,388.11
132	November 2019	Jones 3	5,901	152	5,749	64.18	2.41	35.71	4.36		5	N/A	31.67	N/A	N/A	61,560	61,560	10,707.95
133	December 2019	Jones 3	20,817	187	20,630	94.48	26.05	-	15.15		7	N/A	116.68	N/A	N/A	213,025	213,025	10,325.98
134	January 2020	Jones 3	-	-	-	86.20	100.00	-	-		-	N/A	-	N/A	N/A	-	-	-
135	February 2020	Jones 3	546	209	337	91.15	-	8.86	0.26		1	N/A	3.47	N/A	N/A	7,122	7,122	21,132.13
136	March 2020	Jones 3	30,176	269	29,907	100.00	-	-	22.00		9	N/A	179.77	N/A	N/A	315,489	315,489	10,549.00
137	April 2020	Jones 3	6,496	194	6,302	86.74	46.07	-	4.78		2	N/A	36.87	N/A	N/A	71,887	71,887	11,407.01
138	May 2020	Jones 3	2,090	195	1,895	85.34	68.47	2.28	1.39		1	N/A	12.47	N/A	N/A	22,081	22,081	11,652.24
139	June 2020	Jones 3	59,554	341	59,213	90.04	1.37	-	44.94		7	N/A	362.03	N/A	N/A	625,616	625,616	10,565.51
140	July 2020	Jones 3	95,005	430	94,575	73.16	19.81	-	69.46		4	N/A	582.57	N/A	N/A	1,002,672	1,002,672	10,601.87
141	August 2020	Jones 3	74,073	403	73,670	90.71	-	-	54.11		12	N/A	450.48	N/A	N/A	780,586	780,586	10,595.71
142	September 2020	Jones 3	20,918	230	20,688	85.51	15.39	2.25	15.70		6	N/A	138.09	N/A	N/A	220,791	220,791	10,672.41
143	**Total TY**		**370,099**	**2,939**	**367,160**	**87.15**	**14.95**	**4.01**	**22.84**		**69**	**N/A**	**2,229.40**	**N/A**	**N/A**	**3,883,801**	**3,883,801**	**10,577.95**
144	October 2019	Jones 4	48,736	247	48,489	99.74	0.68	-	35.61		11	N/A	284.72	N/A	N/A	498,153	498,153	10,273.52
145	November 2019	Jones 4	2,900	154	2,746	79.94	14.92	19.67	2.08		4	N/A	15.97	N/A	N/A	30,234	30,234	11,010.20
146	December 2019	Jones 4	4,663	176	4,487	94.48	62.01	-	3.30		2	N/A	25.18	N/A	N/A	47,235	47,235	10,527.08
147	January 2020	Jones 4	1,297	151	1,146	100.00	-	-	0.84		2	N/A	7.47	N/A	N/A	13,429	13,429	11,718.15
148	February 2020	Jones 4	-	-	-	100.00	-	-	-		-	N/A	-	N/A	N/A	-	-	-
149	March 2020	Jones 4	764	94	670	5.26	-	94.71	0.49		1	N/A	4.54	N/A	N/A	7,997	7,997	11,935.16
150	April 2020	Jones 4	23,672	173	23,499	90.78	5.83	-	17.83		5	N/A	129.27	N/A	N/A	240,043	240,043	10,215.03
151	May 2020	Jones 4	3,107	126	2,981	88.37	18.41	3.19	2.19		2	N/A	17.95	N/A	N/A	32,182	32,182	10,795.69
152	June 2020	Jones 4	73,206	302	72,904	91.80	-	-	55.33		8	N/A	400.63	N/A	N/A	756,471	756,471	10,376.26
153	July 2020	Jones 4	99,273	377	98,896	91.80	-	-	72.64		7	N/A	584.25	N/A	N/A	1,030,467	1,030,467	10,419.70
154	August 2020	Jones 4	88,961	374	88,587	91.80	-	-	65.06		18	N/A	534.87	N/A	N/A	923,347	923,347	10,423.05
155	September 2020	Jones 4	17,878	170	17,708	89.67	-	2.32	13.44		12	N/A	118.35	N/A	N/A	185,419	185,419	10,470.91
156	**Total TY**		**364,457**	**2,344**	**362,113**	**85.20**	**2.65**	**10.09**	**22.53**		**72**	**N/A**	**2,123.20**	**N/A**	**N/A**	**3,764,976**	**3,764,976**	**10,397.24**

Southwestern Public Service Company

Generating Unit Data

Line No.	MONTH	UNIT NAME	PRODUCTION MWh GROSS UNIT OUTPUT	PRODUCTION MWh STATION SERVICE	PRODUCTION MWh NET UNIT OUTPUT	OPERATING STATISTICS (%) EQUIV. AVAIL. FACTOR	FORCED OUTAGE RATE	SCHED. OUTAGE FACTOR	NET CAPACITY FACTOR	TIME ON AGC	# OF COLD STARTS	# OF HOT STARTS	HOURS CONNECTED TO LOAD	FUEL CONSUMPTION MILLION Btu COLD START	HOT START	OPERATIONS	TOTAL	NET HEAT RATE Btu/kWh
	TEST YEAR (TY)					%	%	%	%	%								
157	October 2019	Maddox 1	35,783	1,774	34,009	56.04	41.88	-	40.81		1	N/A	432.38	N/A	N/A	384,332	384,332	11,300.90
158	November 2019	Maddox 1	46,679	2,084	44,595	78.02	-	19.14	55.22		-	N/A	574.25	N/A	N/A	483,497	483,497	10,841.96
159	December 2019	Maddox 1	27,089	1,303	25,786	43.01	-	56.99	30.95		1	N/A	320.00	N/A	N/A	297,214	297,214	11,526.16
160	January 2020	Maddox 1	55,926	2,418	53,508	82.99	16.72	-	64.21		2	N/A	608.93	N/A	N/A	570,508	570,508	10,662.10
161	February 2020	Maddox 1	67,357	2,759	64,598	88.20	1.09	-	82.87		1	N/A	688.40	N/A	N/A	672,530	672,530	10,411.01
162	March 2020	Maddox 1	72,288	3,094	69,194	100.00	-	-	83.15		-	N/A	743.00	N/A	N/A	920,526	920,526	13,303.55
163	April 2020	Maddox 1	62,895	2,758	60,137	100.00	-	-	74.57		-	N/A	720.00	N/A	N/A	632,938	632,938	10,524.94
164	May 2020	Maddox 1	31,714	1,643	30,071	71.79	0.60	25.89	36.09		2	N/A	540.02	N/A	N/A	329,107	329,107	10,944.33
165	June 2020	Maddox 1	25,707	1,381	24,326	57.86	28.53	-	30.17		5	N/A	460.45	N/A	N/A	254,777	254,777	10,473.43
166	July 2020	Maddox 1	61,437	2,845	58,592	100.00	-	-	70.31		1	N/A	735.27	N/A	N/A	732,615	732,615	12,503.66
167	August 2020	Maddox 1	47,252	2,205	45,047	83.90	-	-	54.06		2	N/A	696.10	N/A	N/A	490,623	490,623	10,891.36
168	September 2020	Maddox 1	32,910	1,578	31,332	67.64	-	32.36	38.85		1	N/A	417.83	N/A	N/A	251,790	251,790	8,036.21
169	**Total TY**		**567,037**	**25,842**	**541,195**	**77.32**	**8.31**	**11.24**	**55.01**		**16**	**N/A**	**6,936.63**	**N/A**	**N/A**	**6,020,457**	**6,020,457**	**11,063.13**
170	October 2019	Maddox 2	34,598	13	34,585	94.29	6.91	-	73.79		11	N/A	572.29	N/A	N/A	443,234	443,234	12,815.79
171	November 2019	Maddox 2	16,967	62	16,905	100.00	-	-	37.22		8	N/A	257.87	N/A	N/A	229,662	229,662	13,585.47
172	December 2019	Maddox 2	1,257	13	1,244	12.15	96.88	-	2.65		2	N/A	21.02	N/A	N/A	21,876	21,876	17,585.60
173	January 2020	Maddox 2	31,601	63	31,538	89.78	11.99	0.86	67.29		10	N/A	510.54	N/A	N/A	425,095	425,095	13,478.82
174	February 2020	Maddox 2	13,755	59	13,696	85.16	29.24	-	31.24		5	N/A	249.98	N/A	N/A	184,783	184,783	13,491.77
175	March 2020	Maddox 2	14,061	54	14,007	96.03	11.23	-	29.92		12	N/A	232.95	N/A	N/A	196,053	196,053	13,996.79
176	April 2020	Maddox 2	6,592	32	6,560	16.42	45.72	70.13	14.46		1	N/A	110.45	N/A	N/A	87,039	87,039	13,268.16
177	May 2020	Maddox 2	6,297	46	6,251	76.24	41.01	11.28	13.34		11	N/A	106.87	N/A	N/A	86,544	86,544	13,844.81
178	June 2020	Maddox 2	14,432	68	14,364	96.22	1.83	-	31.67		20	N/A	242.77	N/A	N/A	215,871	215,871	15,028.64
179	July 2020	Maddox 2	19,017	65	18,952	73.74	28.11	-	40.43		18	N/A	350.23	N/A	N/A	209,276	209,276	11,042.43
180	August 2020	Maddox 2	25,442	79	25,363	85.43	16.97	-	54.11		19	N/A	428.45	N/A	N/A	344,523	344,523	13,583.67
181	September 2020	Maddox 2	17,207	69	17,138	87.49	18.36	0.87	37.78		20	N/A	280.92	N/A	N/A	268,176	268,176	15,648.06
182	**Total TY**		**201,226**	**623**	**200,603**	**76.04**	**28.76**	**6.85**	**36.25**		**137**	**N/A**	**3,364.34**	**N/A**	**N/A**	**2,712,134**	**2,712,134**	**13,519.91**
183	October 2019	Maddox 3	10	-	10	30.46	-	69.54	0.13		1	N/A	2.05	N/A	N/A	278	278	27,830.09
184	November 2019	Maddox 3	12	-	12	100.00	-	-	0.17		1	N/A	2.07	N/A	N/A	307	307	25,616.31
185	December 2019	Maddox 3	12	-	12	98.55	84.91	-	0.16		1	N/A	1.92	N/A	N/A	264	264	22,008.82
186	January 2020	Maddox 3	11	-	11	100.00	-	-	0.15		1	N/A	1.83	N/A	N/A	264	264	24,036.42
187	February 2020	Maddox 3	12	-	12	100.00	-	-	0.17		1	N/A	2.03	N/A	N/A	290	290	24,150.02
188	March 2020	Maddox 3	12	-	12	99.13	75.85	-	0.16		1	N/A	2.07	N/A	N/A	296	296	24,666.55
189	April 2020	Maddox 3	13	-	13	100.00	-	-	0.18		1	N/A	2.03	N/A	N/A	288	288	22,153.88
190	May 2020	Maddox 3	12	-	12	88.86	-	11.14	0.16		1	N/A	1.40	N/A	N/A	283	283	23,608.24
191	June 2020	Maddox 3	12	-	12	100.00	-	-	0.17		1	N/A	2.08	N/A	N/A	286	286	23,797.49
192	July 2020	Maddox 3	6	-	6	93.73	96.01	-	0.08		1	N/A	1.94	N/A	N/A	152	152	25,326.39
193	August 2020	Maddox 3	11	-	11	100.00	-	-	0.15		1	N/A	2.03	N/A	N/A	280	280	25,455.00
194	September 2020	Maddox 3	11	-	11	42.57	-	57.44	0.15		1	N/A	1.80	N/A	N/A	259	259	23,545.13
195	**Total TY**		**134**	**-**	**134**	**87.73**	**21.40**	**11.54**	**0.15**		**12**	**N/A**	**23.25**	**N/A**	**N/A**	**3,248**	**3,248**	**24,237.54**

Southwestern Public Service Company

Generating Unit Data

Line No.	MONTH TEST YEAR (TY)	UNIT NAME	PRODUCTION MWh GROSS UNIT OUTPUT	PRODUCTION MWh STATION SERVICE	PRODUCTION MWh NET UNIT OUTPUT	OPERATING STATISTICS (%) EQUIV. AVAIL. FACTOR %	FORCED OUTAGE RATE %	SCHED. OUTAGE FACTOR %	NET CAPACITY FACTOR %	TIME ON AGC %	# OF COLD STARTS	# OF HOT STARTS	HOURS CONNECTED TO LOAD	FUEL CONSUMPTION MILLION Btu COLD START	FUEL CONSUMPTION MILLION Btu HOT START	FUEL CONSUMPTION MILLION Btu OPERATIONS	FUEL CONSUMPTION MILLION Btu TOTAL	NET HEAT RATE Btu/kWh
196	October 2019	Nichols 1	-	285	(285)	-	-	100.00	(0.36)		-	N/A	-	N/A	N/A	-	-	-
197	November 2019	Nichols 1	-	337	(337)	-	-	100.00	(0.44)		-	N/A	-	N/A	N/A	-	-	-
198	December 2019	Nichols 1	-	394	(394)	-	-	100.00	(0.49)		-	N/A	-	N/A	N/A	-	-	-
199	January 2020	Nichols 1	-	369	(369)	-	-	100.00	(0.46)		-	N/A	-	N/A	N/A	-	-	-
200	February 2020	Nichols 1	3,297	784	2,513	7.97	-	91.88	3.37		4	N/A	56.55	N/A	N/A	32,609	32,609	12,975.95
201	March 2020	Nichols 1	7,478	1,108	6,370	20.95	-	78.65	8.01		5	N/A	158.63	N/A	N/A	77,359	77,359	12,144.33
202	April 2020	Nichols 1	47,096	2,721	44,375	99.78	-	-	57.60		3	N/A	686.90	N/A	N/A	497,046	497,046	11,201.03
203	May 2020	Nichols 1	29,947	2,482	27,465	100.00	-	-	34.50		6	N/A	678.72	N/A	N/A	336,790	336,790	12,262.52
204	June 2020	Nichols 1	27,077	2,291	24,786	94.53	-	5.28	32.17		7	N/A	603.08	N/A	N/A	302,957	302,957	12,222.91
205	July 2020	Nichols 1	44,913	2,901	42,012	99.49	-	-	52.77		4	N/A	708.15	N/A	N/A	463,059	463,059	11,022.06
206	August 2020	Nichols 1	36,961	2,654	34,307	99.49	0.57	-	43.09		7	N/A	668.89	N/A	N/A	393,790	393,790	11,478.41
207	September 2020	Nichols 1	21,142	1,980	19,162	88.73	15.72	-	24.87		6	N/A	435.37	N/A	N/A	226,757	226,757	11,833.66
208	**Total TY**		**217,911**	**18,306**	**199,605**	**50.93**	**2.08**	**47.98**	**21.24**		**42**	**N/A**	**3,996.29**	**N/A**	**N/A**	**2,330,366**	**2,330,366**	**11,674.89**
209	October 2019	Nichols 2	25,475	480	23,652	64.54	-	35.46	29.99		-	N/A	480.20	N/A	N/A	263,096	263,096	11,123.64
210	November 2019	Nichols 2	34,868	662	32,387	97.50	-	2.50	42.38		4	N/A	662.13	N/A	N/A	389,829	389,829	12,036.59
211	December 2019	Nichols 2	38,866	699	36,059	99.60	-	0.40	45.72		3	N/A	698.67	N/A	N/A	402,805	402,805	11,170.73
212	January 2020	Nichols 2	41,758	722	38,909	100.00	-	-	49.34		2	N/A	722.10	N/A	N/A	448,491	448,491	11,526.66
213	February 2020	Nichols 2	48,542	679	45,604	98.29	1.72	-	61.81		3	N/A	678.82	N/A	N/A	498,710	498,710	10,935.67
214	March 2020	Nichols 2	50,712	691	47,620	100.00	-	-	60.46		4	N/A	691.37	N/A	N/A	528,395	528,395	11,096.08
215	April 2020	Nichols 2	44,628	678	41,756	100.00	-	-	54.71		3	N/A	677.55	N/A	N/A	457,779	457,779	10,963.19
216	May 2020	Nichols 2	26,274	639	23,842	100.00	-	-	30.23		5	N/A	639.18	N/A	N/A	290,495	290,495	12,184.19
217	June 2020	Nichols 2	15,595	358	13,811	60.92	35.12	12.16	18.10		3	N/A	357.97	N/A	N/A	173,729	173,729	12,579.02
218	July 2020	Nichols 2	41,097	645	38,160	94.72	5.70	-	48.39		5	N/A	645.15	N/A	N/A	419,129	419,129	10,983.47
219	August 2020	Nichols 2	36,011	645	33,123	100.00	-	-	42.00		8	N/A	669.52	N/A	N/A	383,928	383,928	11,590.97
220	September 2020	Nichols 2	30,317	645	27,764	100.00	-	-	36.38		7	N/A	620.03	N/A	N/A	320,279	320,279	11,535.77
221	**Total TY**		**434,143**	**7,543**	**402,687**	**92.97**	**3.14**	**4.24**	**43.25**		**47**	**N/A**	**7,542.69**	**N/A**	**N/A**	**4,576,666**	**4,576,666**	**11,365.32**
222	October 2019	Nichols 3	-	202	(202)	-	-	100.00	(0.11)		-	N/A	-	N/A	N/A	-	-	-
223	November 2019	Nichols 3	55,047	3,272	51,775	82.35	1.21	16.76	29.43		7	N/A	527.15	N/A	N/A	574,379	574,379	11,093.67
224	December 2019	Nichols 3	75,749	4,247	71,502	99.73	-	0.27	39.39		3	N/A	671.00	N/A	N/A	770,821	770,821	10,780.44
225	January 2020	Nichols 3	84,191	4,640	79,551	100.00	-	-	43.82		2	N/A	719.18	N/A	N/A	885,974	885,974	11,137.18
226	February 2020	Nichols 3	91,396	4,861	86,535	93.39	7.02	-	50.96		2	N/A	608.82	N/A	N/A	930,113	930,113	10,748.40
227	March 2020	Nichols 3	87,559	5,060	82,499	86.63	-	13.37	45.51		4	N/A	554.85	N/A	N/A	876,926	876,926	10,629.54
228	April 2020	Nichols 3	74,406	4,666	69,740	89.00	12.60	-	39.70		3	N/A	549.20	N/A	N/A	750,115	750,115	10,755.87
229	May 2020	Nichols 3	40,395	3,852	36,543	100.00	-	-	20.13		12	N/A	545.10	N/A	N/A	434,434	434,434	11,888.30
230	June 2020	Nichols 3	46,647	4,133	42,514	100.00	-	-	24.20		16	N/A	593.42	N/A	N/A	510,775	510,775	12,014.29
231	July 2020	Nichols 3	63,398	4,816	58,582	72.20	29.44	-	32.27		6	N/A	476.83	N/A	N/A	652,405	652,405	11,136.60
232	August 2020	Nichols 3	64,857	5,021	59,836	99.76	-	-	32.96			N/A	611.03	N/A	N/A	680,261	680,261	11,368.76
233	September 2020	Nichols 3	49,646	4,216	45,430	94.51	6.83	-	25.86			N/A	539.62	N/A	N/A	531,625	531,625	11,702.07
234	**Total TY**		**733,291**	**48,986**	**684,305**	**84.68**	**5.47**	**11.00**	**31.93**		**55**	**N/A**	**6,396.20**	**N/A**	**N/A**	**7,597,828**	**7,597,828**	**11,102.98**

Southwestern Public Service Company

Generating Unit Data

Line No.	MONTH	UNIT NAME	PRODUCTION MWh GROSS UNIT OUTPUT	PRODUCTION MWh STATION SERVICE	PRODUCTION MWh NET UNIT OUTPUT	OPERATING STATISTICS (%) EQUIV. AVAIL. FACTOR	FORCED OUTAGE RATE	SCHED. OUTAGE FACTOR	NET CAPACITY FACTOR	TIME ON AGC	# OF COLD STARTS	# OF HOT STARTS	HOURS CONNECTED TO LOAD	FUEL CONSUMPTION MILLION Btu COLD START	HOT START	OPERATIONS	TOTAL	NET HEAT RATE Btu/kWh
	TEST YEAR (TY)					%	%	%	%	%								
235	October 2019	Plant X 1	-	118	(118)	-	-	100.00	(0.42)		-	N/A	-	N/A	N/A	-	-	-
236	November 2019	Plant X 1	-	111	(111)	-	-	100.00	(0.41)		-	N/A	-	N/A	N/A	-	-	-
237	December 2019	Plant X 1	-	93	(93)	-	-	100.00	(0.33)		-	N/A	-	N/A	N/A	-	-	-
238	January 2020	Plant X 1	5,428	489	4,939	30.68	-	69.32	17.47		2	N/A	202.93	N/A	N/A	87,852	87,852	17,787.35
239	February 2020	Plant X 1	3,745	387	3,358	26.30	77.91	16.09	12.70		1	N/A	113.69	N/A	N/A	38,399	38,399	11,435.06
240	March 2020	Plant X 1	-	208	(208)	-	100.00	-	(0.74)		-	N/A	-	N/A	N/A	-	-	-
241	April 2020	Plant X 1	-	142	(142)	-	100.00	-	(0.52)		-	N/A	-	N/A	N/A	-	-	-
242	May 2020	Plant X 1	-	163	(163)	-	100.00	-	(0.58)		-	N/A	-	N/A	N/A	-	-	-
243	June 2020	Plant X 1	1,317	332	985	39.88	91.57	-	3.60		3	N/A	39.85	N/A	N/A	23,085	23,085	23,436.57
244	July 2020	Plant X 1	22,392	1,323	21,069	99.02	-	-	74.52		-	N/A	567.37	N/A	N/A	260,417	260,417	12,432.58
245	August 2020	Plant X 1	6,349	655	5,694	53.78	67.80	-	20.14			N/A	161.47	N/A	N/A	68,475	68,475	12,025.81
246	September 2020	Plant X 1	4,464	409	4,055	100.00	-	-	14.82			N/A	113.12	N/A	N/A	52,819	52,819	13,025.75
247	**Total TY**		**43,695**	**4,430**	**39,265**	**29.09**	**73.83**	**32.29**	**11.76**		**6**	**N/A**	**1,198.43**	**N/A**	**N/A**	**531,047**	**531,047**	**13,524.70**
248	October 2019	Plant X 2	-	138	(138)	-	-	100.00	(0.21)		-	N/A	-	N/A	N/A	-	-	-
249	November 2019	Plant X 2	-	114	(114)	-	-	100.00	(0.18)		-	N/A	-	N/A	N/A	-	-	-
250	December 2019	Plant X 2	-	126	(126)	(0.00)	-	100.00	(0.19)		-	N/A	-	N/A	N/A	8	8	-
251	January 2020	Plant X 2	14,412	981	13,431	26.42	-	66.03	20.06		2	N/A	235.35	N/A	N/A	163,850	163,850	12,199.38
252	February 2020	Plant X 2	22,214	1,418	20,796	43.76	46.21	-	33.20		2	N/A	354.40	N/A	N/A	241,845	241,845	11,629.40
253	March 2020	Plant X 2	28,498	1,776	26,722	66.23	-	14.85	39.96		4	N/A	472.72	N/A	N/A	319,394	319,394	11,952.47
254	April 2020	Plant X 2	15,724	1,073	14,651	29.38	-	62.22	22.61		-	N/A	260.42	N/A	N/A	168,772	168,772	11,519.48
255	May 2020	Plant X 2	16,672	1,320	15,352	77.17	1.60	-	22.93		2	N/A	359.65	N/A	N/A	190,078	190,078	12,381.33
256	June 2020	Plant X 2	18,069	1,397	16,672	77.78	-	-	25.73		3	N/A	380.98	N/A	N/A	206,995	206,995	12,415.72
257	July 2020	Plant X 2	30,023	2,225	27,798	71.24	9.87	-	41.51		1	N/A	570.72	N/A	N/A	322,006	322,006	11,651.62
258	August 2020	Plant X 2	23,567	1,615	21,952	70.59	13.96	-	32.78		2	N/A	391.03	N/A	N/A	237,727	237,727	10,829.41
259	September 2020	Plant X 2	10,779	819	9,960	69.95	32.73	-	15.37		2	N/A	149.02	N/A	N/A	118,294	118,294	11,876.94
260	**Total TY**		**179,958**	**13,002**	**166,956**	**44.37**	**13.81**	**37.10**	**21.12**		**18**	**N/A**	**3,174.29**	**N/A**	**N/A**	**1,968,970**	**1,968,970**	**11,793.34**
261	October 2019	Plant X 3	-	117	(117)	-	-	100.00	(0.17)		-	N/A	-	N/A	N/A	-	-	-
262	November 2019	Plant X 3	-	133	(133)	-	100.00	96.67	(0.20)		-	N/A	-	N/A	N/A	-	-	-
263	December 2019	Plant X 3	-	134	(134)	-	100.00	-	(0.19)		-	N/A	-	N/A	N/A	1	1	-
264	January 2020	Plant X 3	-	170	(170)	-	100.00	-	(0.25)		-	N/A	-	N/A	N/A	-	-	-
265	February 2020	Plant X 3	-	191	(191)	-	100.00	-	(0.30)		-	N/A	-	N/A	N/A	-	-	-
266	March 2020	Plant X 3	-	228	(228)	-	100.00	-	(5.11)		-	N/A	-	N/A	N/A	-	-	-
267	April 2020	Plant X 3	-	203	(203)	-	100.00	-	-		-	N/A	-	N/A	N/A	-	-	-
268	May 2020	Plant X 3	-	232	(232)	-	100.00	-	-		-	N/A	-	N/A	N/A	-	-	-
269	June 2020	Plant X 3	-	250	(250)	-	100.00	-	-		-	N/A	-	N/A	N/A	-	-	-
270	July 2020	Plant X 3	-	380	(380)	-	100.00	-	-		-	N/A	-	N/A	N/A	-	-	-
271	August 2020	Plant X 3	-	260	(260)	-	100.00	-	-		-	N/A	-	N/A	N/A	-	-	-
272	September 2020	Plant X 3	-	190	(190)	-	100.00	-	-		-	N/A	-	N/A	N/A	-	-	-
273	**Total TY**		**-**	**2,488**	**(2,488)**	**-**	**100.00**	**38.98**	**(0.72)**		**-**	**N/A**	**-**	**N/A**	**N/A**	**1**	**1**	**-**

Southwestern Public Service Company

Generating Unit Data

Line No.	MONTH	UNIT NAME	PRODUCTION MWh GROSS UNIT OUTPUT	PRODUCTION MWh STATION SERVICE	PRODUCTION MWh NET UNIT OUTPUT	OPERATING STATISTICS (%) EQUIV. AVAIL. FACTOR	FORCED OUTAGE RATE	SCHED. OUTAGE FACTOR	NET CAPACITY FACTOR	TIME ON AGC	# OF COLD STARTS	# OF HOT STARTS	HOURS CONNECTED TO LOAD	FUEL CONSUMPTION MILLION Btu COLD START	HOT START	OPERATIONS	TOTAL	NET HEAT RATE Btu/kWh
	TEST YEAR (TY)					%	%	%	%	%								
274	October 2019	Plant X 4	82,155	4,963	77,192	99.67	0.39	-	54.61		6	N/A	630.25	N/A	N/A	809,106	809,106	10,481.73
275	November 2019	Plant X 4	84,215	4,993	79,222	100.00	-	-	57.83		7	N/A	641.43	N/A	N/A	858,017	858,017	10,830.54
276	December 2019	Plant X 4	51,644	3,124	48,520	58.86	12.59	28.17	34.32		6	N/A	406.23	N/A	N/A	499,786	499,786	10,300.62
277	January 2020	Plant X 4	106,799	5,866	100,933	100.00	-	-	71.40		6	N/A	695.65	N/A	N/A	1,074,948	1,074,948	10,650.12
278	February 2020	Plant X 4	94,997	5,328	89,669	100.00	-	-	67.81		4	N/A	648.72	N/A	N/A	952,497	952,497	10,622.37
279	March 2020	Plant X 4	87,092	4,885	82,207	87.01	13.35	-	58.23		7	N/A	583.49	N/A	N/A	874,539	874,539	10,638.26
280	April 2020	Plant X 4	71,215	4,328	66,887	81.10	10.72	7.91	48.89		5	N/A	554.85	N/A	N/A	719,864	719,864	10,762.39
281	May 2020	Plant X 4	64,297	4,735	59,562	94.49	0.34	1.44	42.13		6	N/A	682.72	N/A	N/A	640,072	640,072	10,746.31
282	June 2020	Plant X 4	50,845	3,653	47,192	71.04	-	28.41	34.50		6	N/A	462.22	N/A	N/A	516,891	516,891	10,952.94
283	July 2020	Plant X 4	32,278	1,951	30,327	28.42	71.58	-	21.45		-	N/A	211.45	N/A	N/A	308,578	308,578	10,234.59
284	August 2020	Plant X 4	-	172	(172)	-	100.00	-	(0.12)		-	N/A	-	N/A	N/A	-	-	-
285	September 2020	Plant X 4	60,497	3,849	56,648	81.05	10.67	11.06	41.41		5	N/A	475.46	N/A	N/A	599,490	599,490	10,582.73
286	**Total TY**		**786,034**	**47,847**	**738,187**	**74.91**	**20.58**	**6.39**	**44.23**		**58**	**N/A**	**5,992.47**	**N/A**	**N/A**	**7,853,790**	**7,853,790**	**10,639.30**
287	October 2019	Quay County	17	-	17	100.00	-	-	0.10		1	N/A	0.83	N/A	N/A	322	322	19,376.70
288	November 2019	Quay County	22	-	22	100.00	-	-	0.13		1	N/A	1.03	N/A	N/A	380	380	17,423.21
289	December 2019	Quay County	-	-	-	100.00	-	-	-		-	N/A	-	N/A	N/A	-	-	-
290	January 2020	Quay County	76	-	76	100.00	-	-	0.44		1	N/A	4.00	N/A	N/A	1,269	1,269	16,714.49
291	February 2020	Quay County	44	-	44	100.00	-	-	0.27		1	N/A	1.97	N/A	N/A	712	712	16,295.32
292	March 2020	Quay County	-	-	-	100.00	-	-	-		-	N/A	-	N/A	N/A	-	-	-
293	April 2020	Quay County	-	-	-	73.91	-	-	-		-	N/A	-	N/A	N/A	-	-	-
294	May 2020	Quay County	21	-	21	73.91	-	-	0.12		1	N/A	1.08	N/A	N/A	395	395	18,724.38
295	June 2020	Quay County	20	-	20	73.91	-	-	0.12		1	N/A	1.02	N/A	N/A	378	378	19,267.66
296	July 2020	Quay County	-	-	-	73.91	-	-	-		-	N/A	-	N/A	N/A	-	-	-
297	August 2020	Quay County	-	-	-	73.91	-	-	-		-	N/A	-	N/A	N/A	11	11	-
298	September 2020	Quay County	21	-	21	73.91	-	-	0.13		1	N/A	1.07	N/A	N/A	360	360	16,800.32
299	**Total TY**		**220**	**-**	**220**	**86.96**	**-**	**-**	**0.11**		**7**	**N/A**	**11.00**	**N/A**	**N/A**	**3,826**	**3,826**	**17,382.01**
300	October 2019	Tolk 1	83,473	8,678	74,795	98.88	-	1.12	18.90		5	N/A	420.86	N/A	N/A	887,974	914,243	12,223.32
301	November 2019	Tolk 1	161,039	10,913	150,126	100.00	-	-	39.14		3	N/A	594.25	N/A	N/A	1,632,068	1,647,546	10,974.42
302	December 2019	Tolk 1	94,038	8,988	85,050	100.00	-	-	21.49		5	N/A	480.68	N/A	N/A	984,017	1,012,980	11,910.41
303	January 2020	Tolk 1	69,681	6,984	62,697	98.93	-	1.07	15.84		3	N/A	334.53	N/A	N/A	724,415	752,492	12,002.04
304	February 2020	Tolk 1	73,811	7,278	66,533	95.89	-	4.11	17.97		4	N/A	352.40	N/A	N/A	770,168	789,175	11,861.41
305	March 2020	Tolk 1	-	1,262	(1,262)	0.00	-	100.00	(0.32)		-	N/A	-	N/A	N/A	-	-	-
306	April 2020	Tolk 1	31,350	3,302	28,048	54.04	59.56	22.11	7.32		2	N/A	116.58	N/A	N/A	315,415	334,282	11,918.21
307	May 2020	Tolk 1	122,043	9,730	112,313	89.62	15.05	-	28.38		6	N/A	435.93	N/A	N/A	1,230,646	1,259,084	11,210.49
308	June 2020	Tolk 1	106,418	9,637	96,781	100.00	-	-	25.27		8	N/A	490.03	N/A	N/A	1,084,332	1,130,322	11,679.17
309	July 2020	Tolk 1	148,544	12,037	136,507	94.28	5.20	-	34.49		6	N/A	661.64	N/A	N/A	1,453,792	1,606,422	11,768.06
310	August 2020	Tolk 1	209,782	13,798	195,984	100.00	-	-	49.51		6	N/A	638.27	N/A	N/A	2,041,449	2,151,548	10,978.18
311	September 2020	Tolk 1	106,257	7,165	99,092	46.60	-	50.00	25.87		2	N/A	325.82	N/A	N/A	1,076,024	1,082,598	10,925.18
312	**Total TY**		**1,206,436**	**99,772**	**1,106,664**	**81.52**	**5.55**	**14.88**	**23.68**		**50**	**N/A**	**4,850.99**	**N/A**	**N/A**	**12,200,300**	**12,680,692**	**11,458.48**

Southwestern Public Service Company

Generating Unit Data

Line No.	MONTH TEST YEAR (TY)	UNIT NAME	PRODUCTION MWh GROSS UNIT OUTPUT	PRODUCTION MWh STATION SERVICE	PRODUCTION MWh NET UNIT OUTPUT	OPERATING STATISTICS (%) EQUIV. AVAIL. FACTOR	FORCED OUTAGE RATE	SCHED. OUTAGE FACTOR	NET CAPACITY FACTOR	TIME ON AGC	# OF COLD STARTS	# OF HOT STARTS	HOURS CONNECTED TO LOAD	FUEL CONSUMPTION MILLION Btu COLD START	HOT START	OPERATIONS	TOTAL	NET HEAT RATE Btu/kWh
						%	%	%	%	%								
313	October 2019	Tolk 2	104,788	8,691	96,097	100.00	-	-	24.14		6	N/A	496.98	N/A	N/A	1,057,564	1,089,423	11,336.71
314	November 2019	Tolk 2	162,233	10,058	152,175	90.95	-	9.05	39.45		3	N/A	514.89	N/A	N/A	1,577,745	1,593,957	10,474.50
315	December 2019	Tolk 2	153,198	10,399	142,799	100.00	-	-	35.88		5	N/A	604.50	N/A	N/A	1,512,233	1,534,972	10,749.18
316	January 2020	Tolk 2	44,107	5,928	38,179	90.83	20.18	-	9.59		3	N/A	270.02	N/A	N/A	454,027	471,869	12,359.39
317	February 2020	Tolk 2	88,194	7,464	80,730	100.00	-	-	21.68		5	N/A	387.28	N/A	N/A	877,115	902,087	11,174.13
318	March 2020	Tolk 2	78,694	7,370	71,324	84.96	18.50	4.78	17.94		4	N/A	335.99	N/A	N/A	774,835	794,750	11,142.81
319	April 2020	Tolk 2	64,923	10,089	54,834	97.81	1.72	1.34	14.24		7	N/A	348.51	N/A	N/A	649,872	682,431	12,445.39
320	May 2020	Tolk 2	95,460	7,024	88,436	78.04	-	21.96	22.22		5	N/A	399.03	N/A	N/A	931,936	959,245	10,846.77
321	June 2020	Tolk 2	51,417	5,447	45,970	100.00	-	-	11.93		4	N/A	237.53	N/A	N/A	510,280	543,836	11,830.24
322	July 2020	Tolk 2	225,641	14,289	211,352	100.00	-	-	53.10		3	N/A	729.47	N/A	N/A	2,137,075	2,249,642	10,644.05
323	August 2020	Tolk 2	188,433	12,261	176,172	89.80	10.94	-	44.26		7	N/A	585.98	N/A	N/A	1,759,259	1,872,006	10,626.02
324	September 2020	Tolk 2	30,024	3,889	26,135	38.96	76.32	-	6.78		5	N/A	136.40	N/A	N/A	302,008	334,191	12,787.12
325	**Total TY**		**1,287,112**	**102,909**	**1,184,203**	**89.30**	**11.60**	**3.12**	**25.20**		**57**	**N/A**	**5,046.58**	**N/A**	**N/A**	**12,543,948**	**13,028,410**	**11,001.84**

Notes: Carlsband 5 was removed from service in December of 2017.

As discussed in the testimony of William A. Grant, Southwestern Public Service Company ("SPS") has not filed a fuel reconciliation with its current base rate case in accordance with the Order in Project No. 41905 and 16 Tex. Admin. Code § 25.236 ("TAC") as revised in that project. Therefore, fuel reconciliation data is not applicable. Additionally, SPS is not proposing a new fuel factor under 16 TAC § 25.237. Therefore, rate year data is not applicable.

Southwestern Public Service Company

Cunningham Unit 1 Generating Unit Characteristics

CATEGORY	DESCRIPTION / RESPONSE
TURBINE-GENERATOR	
1. TURBINE MANUFACTURER	General Electric
2. TURBINE DESCRIPTION	Tandem-compound double flow
3. INLET TEMPERATURES / PRESSURES	950ºF / 1250 per square inch gauge ("psig")
4. NUMBER OF FEEDWATER HEATERS	Four closed heaters, One open deaerating heater
5. LAST ROW OF BLADING SIZE / RPMs	20" / 3600 RPM
6. GENERATOR MANUFACTURER	General Electric
7. NAMEPLATE RATINGS	13.8 kV, 88.2 MVA, 3600 RPM, 0.85 power factor
8. NOMINAL GROSS MW OUTPUT	72,000 MW
9. TYPE OF COOLING	Hydrogen
10. TYPE OF EXCITATION	Rotating
BOILER	
1. DESCRIPTION OF PRIMARY FUEL	Natural Gas
2. DESCRIPTION OF ALTERNATE FUEL	None
3. MW DERATING - ALTER FUEL USE	N/A
4. STARTUP FUEL	Natural Gas
5. BOILER MANUFACTURER	Combustion Engineering
6. TYPE OF BOILER	Single furnace - pressurized, natural circulation
7. TYPE OF FUEL FIRING	Tangential Firing
8. DESCRIPTION OF BURNER LAYOUT	Three burner levels, primary & secondary air nozzles adjacent to each corner
POLLUTION CONTROL	
1. APPLICABLE AIR POLLUTION REG	20.2.1 NMAC – 20.2.350 NMAC; NM AQC Permit PSD-NM-622-M4; 40 Code of Federal Regulations ("C.F.R.") § 75; N.M. Title V Permit P080-R3M1; 40 C.F.R. § 98
2. MANUFACTURER OF PART. CONTROL	N/A
3. MANUFACTURER OF SOx CONTROL	N/A
4. MANUFACTURER OF NOx CONTROL	Combustion Engineering
5. TYPE OF PARTICULATE CONTROL	N/A
6. TYPE OF SOx CONTROL	Fuel quality
7. TYPE OF NOx CONTROL	Combustion control
8. CURRENT LEVEL OF PARTICULATES	0.007 lb/MMBtu (Natural Gas EPA publication AP 42)
9. CURRENT LEVEL OF SOx	0.0006 lb/MMBtu (Natural Gas EPA publication AP 42)
10. CURRENT LEVEL OF NOx	0.167 lb/MMBtu Continuous Emission Monitoring System ("CEMS")
11. PEAK MW LOAD OF PART. SYSTEM	No limitation on unit
12. PEAK MW LOAD OF SOx SYSTEM	No limitation on unit
13. PEAK MW LOAD OF NOx SYSTEM	No limitation on unit
14. APPLICABLE WATER POLLUTION REG	N.M. Water Quality Control Regulations
15. APPLICABLE WASTE DISPOSAL REG	N.M. EIB/SWMR-2
16. MANUF. OF WASTE WATER SYSTEM	Various
17. TYPE OF WASTE WATER SYSTEM	Irrigation of crops
18. MANUF OF WASTE DISPOSAL SYSTEM	Various
19. TYPE OF WASTE DISPOSAL SYSTEM	Recycle/Storage/Disposal
20. PEAK MW LOAD OF WASTE WATER SYS	No limitation on unit
21. PEAK MW LOAD OF WASTE DISP SYS	No limitation on unit
AUXILIARIES & COOLING WATER SYSTEM	
1. DESCRIPTION OF COOLING WATER SYS	Well water makeup; forced draft cooling tower
2. MANUFACTURER OF COOLING WATER SYS	Cooling tower: Pritchard
3. PEAK MW LOAD OF COOLING WATER SYS	No limitation on unit
4. DESCRIPTION OF BOILER FEEDPUMP SYS	Motor driven, variable speed, multistage, barrel type centrifugal pump
5. MANUFACTURER OF BOILER FEEDPUMP SYS	Worthington
6. PEAK MW LOAD OF BOILER FEEDPUMP SYS	No limitation on unit
7. DESCRIPTION OF COMBUSTION AIR SYS	Constant speed centrifugal forced draft fans, vane control
8. MANUFACTURER OF COMBUSTION AIR SYS	Sturtevant
9. PEAK MW LOAD OF COMBUSTION AIR SYS	No limitation on unit
10. DESCRIPTION OF AIR PREHEATER	Regenerative corrugated plate Ljungstrom
11. MANUFACTURER OF AIR PREHEATER	Combustion Engineering Air Preheater
12. PEAK MW LOAD OF AIR PREHEATER	No limitation on unit
13. DESCRIPTION OF FUEL FEED SYS	N/A
14. MANUFACTURER OF FUEL FEED SYS	N/A
15. PEAK MW LOAD OF FUEL FEED SYS	N/A

Southwestern Public Service Company

Cunningham Unit 2 Generating Unit Characteristics

CATEGORY	DESCRIPTION / RESPONSE
TURBINE-GENERATOR	
1. TURBINE MANUFACTURER	General Electric
2. TURBINE DESCRIPTION	Tandem compound double flow
3. INLET TEMPERATURES / PRESSURES	Throttle - 1000ºF / 1800 psig, Hot Reheat - 1000ºF
4. NUMBER OF FEEDWATER HEATERS	Five closed heaters, One open deaerating heater
5. LAST ROW OF BLADING SIZE / RPMs	26" / 3600 RPM
6. GENERATOR MANUFACTURER	General Electric
7. NAMEPLATE RATINGS	20.0 kV, 224 MVA, 3600 RPM, 0.85 power factor
8. NOMINAL GROSS MW OUTPUT	192,000 MW
9. TYPE OF COOLING	Hydrogen
10. TYPE OF EXCITATION	Main - static, spare - rotating
BOILER	
1. DESCRIPTION OF PRIMARY FUEL	Natural Gas
2. DESCRIPTION OF ALTERNATE FUEL	None
3. MW DERATING - ALTER FUEL USE	N/A
4. STARTUP FUEL	Natural Gas
5. BOILER MANUFACTURER	Combustion Engineering
6. TYPE OF BOILER	Single furnace - pressurized, natural circulation
7. TYPE OF FUEL FIRING	Tangential firing
8. DESCRIPTION OF BURNER LAYOUT	Five burner levels, primary & secondary air nozzles adjacent to each burner
POLLUTION CONTROL	
1. APPLICABLE AIR POLLUTION REG	20.2.1 NMAC – 20.2.350 NMAC; NM AQC Permit NM-PSD-622-M4; 40 C.F.R. § 75; N.M Title V Permit P080-R3M1; 40 C.F.R. § 98
2. MANUFACTURER OF PART. CONTROL	N/A
3. MANUFACTURER OF SOx CONTROL	N/A
4. MANUFACTURER OF NOx CONTROL	Combustion Engineering
5. TYPE OF PARTICULATE CONTROL	N/A
6. TYPE OF SOx CONTROL	Fuel quality
7. TYPE OF NOx CONTROL	Combustion control
8. CURRENT LEVEL OF PARTICULATES	0.007 lb/MMBtu (Natural Gas EPA publication AP 42)
9. CURRENT LEVEL OF SOx	0.0006 lb/MMBtu (Natural Gas EPA publication AP 42)
10. CURRENT LEVEL OF NOx	0.147 lb/MMBtu (CEMS)
11. PEAK MW LOAD OF PART. SYSTEM	No limitation on unit
12. PEAK MW LOAD OF SOx SYSTEM	No limitation on unit
13. PEAK MW LOAD OF NOx SYSTEM	No limitation on unit
14. APPLICABLE WATER POLLUTION REG	N.M. Water Quality Control Regulations
15. APPLICABLE WASTE DISPOSAL REG	N.M. EIB/SWMR-2
16. MANUF. OF WASTE WATER SYSTEM	Various
17. TYPE OF WASTE WATER SYSTEM	Irrigation of crops
18. MANUF OF WASTE DISPOSAL SYSTEM	Various
19. TYPE OF WASTE DISPOSAL SYSTEM	Recycle/Storage/Disposal
20. PEAK MW LOAD OF WASTE WATER SYS	No limitation on unit
21. PEAK MW LOAD OF WASTE DISP SYS	No limitation on unit
AUXILIARIES & COOLING WATER SYSTEM	
1. DESCRIPTION OF COOLING WATER SYS	Well water makeup; forced draft cooling tower
2. MANUFACTURER OF COOLING WATER SYS	Cooling tower: Fluor-Daniel
3. PEAK MW LOAD OF COOLING WATER SYS	No limitation on unit
4. DESCRIPTION OF BOILER FEEDPUMP SYS	Motor driven, variable speed, multistage, barrel type centrifugal pump
5. MANUFACTURER OF BOILER FEEDPUMP SYS	Worthington
6. PEAK MW LOAD OF BOILER FEEDPUMP SYS	No limitation on unit
7. DESCRIPTION OF COMBUSTION AIR SYS	Variable speed centrifugal forced draft fans
8. MANUFACTURER OF COMBUSTION AIR SYS	Sturtevant
9. PEAK MW LOAD OF COMBUSTION AIR SYS	No limitation on unit
10. DESCRIPTION OF AIR PREHEATER	Regenerative corrugated plate Ljungstrom
11. MANUFACTURER OF AIR PREHEATER	Combustion Engineering Air Preheater
12. PEAK MW LOAD OF AIR PREHEATER	No limitation on unit
13. DESCRIPTION OF FUEL FEED SYS	N/A
14. MANUFACTURER OF FUEL FEED SYS	N/A
15. PEAK MW LOAD OF FUEL FEED SYS	N/A

Southwestern Public Service Company

Cunningham Unit 3 Generating Unit Characteristics

CATEGORY	DESCRIPTION / RESPONSE
TURBINE-GENERATOR	
1. TURBINE MANUFACTURER	Westinghouse
2. TURBINE DESCRIPTION	501D5A combustion turbine
3. INLET TEMPERATURES / PRESSURES	N/A
4. NUMBER OF FEEDWATER HEATERS	N/A
5. LAST ROW OF BLADING SIZE / RPMs	N/A
6. GENERATOR MANUFACTURER	Westinghouse
7. NAMEPLATE RATINGS	13.8 kV, 141 MVA, 3600 RPM, 0.90 power factor
8. NOMINAL GROSS MW OUTPUT	106,000 MW Summer / 98,000 MW Winter
9. TYPE OF COOLING	Air
10. TYPE OF EXCITATION	Brushless
BOILER	
1. DESCRIPTION OF PRIMARY FUEL	N/A
2. DESCRIPTION OF ALTERNATE FUEL	N/A
3. MW DERATING - ALTER FUEL USE	N/A
4. STARTUP FUEL	N/A
5. BOILER MANUFACTURER	N/A
6. TYPE OF BOILER	N/A
7. TYPE OF FUEL FIRING	N/A
8. DESCRIPTION OF BURNER LAYOUT	N/A
POLLUTION CONTROL	
1. APPLICABLE AIR POLLUTION REG	20.2.1 NMAC – 20.2.350 NMAC; PSD-NM-622-M4; 40 C.F.R. § 75; 40 C.F.R. § 60 subpart GG; N.M. Title V Permit P080-R3M1; 40 C.F.R. § 98
2. MANUFACTURER OF PART. CONTROL	N/A
3. MANUFACTURER OF SOx CONTROL	N/A
4. MANUFACTURER OF NOx CONTROL	N/A
5. TYPE OF PARTICULATE CONTROL	N/A
6. TYPE OF SOx CONTROL	Fuel quality
7. TYPE OF NOx CONTROL	Dry low NOx burners
8. CURRENT LEVEL OF PARTICULATES	0.0049 lb/MMBtu
9. CURRENT LEVEL OF SOx	0.0006 lb/MMBtu (Natural Gas EPA publication AP 42)
10. CURRENT LEVEL OF NOx	0.032 lb/MMBtu (CEMS)
11. PEAK MW LOAD OF PART. SYSTEM	No limitation on unit
12. PEAK MW LOAD OF SOx SYSTEM	No limitation on unit
13. PEAK MW LOAD OF NOx SYSTEM	No limitation on unit
14. APPLICABLE WATER POLLUTION REG	N.M. Water Quality Control Regulations
15. APPLICABLE WASTE DISPOSAL REG	N.M. EIB/SWMR-2
16. MANUF. OF WASTE WATER SYSTEM	Various
17. TYPE OF WASTE WATER SYSTEM	Irrigation of crops
18. MANUF OF WASTE DISPOSAL SYSTEM	Various
19. TYPE OF WASTE DISPOSAL SYSTEM	Recycle/Storage/Disposal
20. PEAK MW LOAD OF WASTE WATER SYS	No limitation on unit
21. PEAK MW LOAD OF WASTE DISP SYS	No limitation on unit
AUXILIARIES & COOLING WATER SYSTEM	
1. DESCRIPTION OF COOLING WATER SYS	N/A
2. MANUFACTURER OF COOLING WATER SYS	N/A
3. PEAK MW LOAD OF COOLING WATER SYS	N/A
4. DESCRIPTION OF BOILER FEEDPUMP SYS	N/A
5. MANUFACTURER OF BOILER FEEDPUMP SYS	N/A
6. PEAK MW LOAD OF BOILER FEEDPUMP SYS	N/A
7. DESCRIPTION OF COMBUSTION AIR SYS	N/A
8. MANUFACTURER OF COMBUSTION AIR SYS	N/A
9. PEAK MW LOAD OF COMBUSTION AIR SYS	N/A
10. DESCRIPTION OF AIR PREHEATER	N/A
11. MANUFACTURER OF AIR PREHEATER	N/A
12. PEAK MW LOAD OF AIR PREHEATER	N/A
13. DESCRIPTION OF FUEL FEED SYS	N/A
14. MANUFACTURER OF FUEL FEED SYS	N/A
15. PEAK MW LOAD OF FUEL FEED SYS	N/A

Southwestern Public Service Company

Cunningham Unit 4 Generating Unit Characteristics

CATEGORY	DESCRIPTION / RESPONSE
TURBINE-GENERATOR	
1. TURBINE MANUFACTURER	Westinghouse
2. TURBINE DESCRIPTION	501D5A combustion turbine
3. INLET TEMPERATURES / PRESSURES	N/A
4. NUMBER OF FEEDWATER HEATERS	N/A
5. LAST ROW OF BLADING SIZE / RPMs	N/A
6. GENERATOR MANUFACTURER	Westinghouse
7. NAMEPLATE RATINGS	13.8 kV, 141 MVA, 3600 RPM, 0.90 power factor
8. NOMINAL GROSS MW OUTPUT	103,000 MW Summer / 98,000 MW Winter
9. TYPE OF COOLING	Air
10. TYPE OF EXCITATION	Brushless
BOILER	
1. DESCRIPTION OF PRIMARY FUEL	N/A
2. DESCRIPTION OF ALTERNATE FUEL	N/A
3. MW DERATING - ALTER FUEL USE	N/A
4. STARTUP FUEL	N/A
5. BOILER MANUFACTURER	N/A
6. TYPE OF BOILER	N/A
7. TYPE OF FUEL FIRING	N/A
8. DESCRIPTION OF BURNER LAYOUT	N/A
POLLUTION CONTROL	
1. APPLICABLE AIR POLLUTION REG	20.2.1 NMAC – 20.2.350 NMAC; PSD-NM-622-M4; 40 C.F.R. § 75; 40 C.F.R. § 60 subpart GG; N.M. Title V Permit P080-R3M1; 40 C.F.R. § 98
2. MANUFACTURER OF PART. CONTROL	N/A
3. MANUFACTURER OF SOx CONTROL	N/A
4. MANUFACTURER OF NOx CONTROL	N/A
5. TYPE OF PARTICULATE CONTROL	N/A
6. TYPE OF SOx CONTROL	Fuel quality
7. TYPE OF NOx CONTROL	Dry low NOx burners
8. CURRENT LEVEL OF PARTICULATES	0.0049 lb/MMBtu
9. CURRENT LEVEL OF SOx	0.0006 lb/MMBtu (Natural Gas EPA publication AP 42)
10. CURRENT LEVEL OF NOx	0.061 lb/MMBtu (CEMS)
11. PEAK MW LOAD OF PART. SYSTEM	No limitation on unit
12. PEAK MW LOAD OF SOx SYSTEM	No limitation on unit
13. PEAK MW LOAD OF NOx SYSTEM	No limitation on unit
14. APPLICABLE WATER POLLUTION REG	N.M. Water Quality Control Regulations
15. APPLICABLE WASTE DISPOSAL REG	N.M. EIB/SWMR-2
16. MANUF. OF WASTE WATER SYSTEM	Various
17. TYPE OF WASTE WATER SYSTEM	Irrigation of crops
18. MANUF OF WASTE DISPOSAL SYSTEM	Various
19. TYPE OF WASTE DISPOSAL SYSTEM	Recycle/Storage/Disposal
20. PEAK MW LOAD OF WASTE WATER SYS	No limitation on unit
21. PEAK MW LOAD OF WASTE DISP SYS	No limitation on unit
AUXILIARIES & COOLING WATER SYSTEM	
1. DESCRIPTION OF COOLING WATER SYS	N/A
2. MANUFACTURER OF COOLING WATER SYS	N/A
3. PEAK MW LOAD OF COOLING WATER SYS	N/A
4. DESCRIPTION OF BOILER FEEDPUMP SYS	N/A
5. MANUFACTURER OF BOILER FEEDPUMP SYS	N/A
6. PEAK MW LOAD OF BOILER FEEDPUMP SYS	N/A
7. DESCRIPTION OF COMBUSTION AIR SYS	N/A
8. MANUFACTURER OF COMBUSTION AIR SYS	N/A
9. PEAK MW LOAD OF COMBUSTION AIR SYS	N/A
10. DESCRIPTION OF AIR PREHEATER	N/A
11. MANUFACTURER OF AIR PREHEATER	N/A
12. PEAK MW LOAD OF AIR PREHEATER	N/A
13. DESCRIPTION OF FUEL FEED SYS	N/A
14. MANUFACTURER OF FUEL FEED SYS	N/A
15. PEAK MW LOAD OF FUEL FEED SYS	N/A

Southwestern Public Service Company

Harrington Station Unit 1 Generating Unit Characteristics

CATEGORY	DESCRIPTION / RESPONSE
TURBINE-GENERATOR	
1. TURBINE MANUFACTURER	Westinghouse
2. TURBINE DESCRIPTION	Tandem compound double flow
3. INLET TEMPERATURES / PRESSURES	Throttle - 1000ºF / 2400 psig; Hot Reheat - 1000ºF
4. NUMBER OF FEEDWATER HEATERS	Seven closed heaters, one open deaerating heater
5. LAST ROW OF BLADING SIZE / RPMs	29.25" / 3600 RPM
6. GENERATOR MANUFACTURER	Westinghouse
7. NAMEPLATE RATINGS	24.0 kV, 400 MVA, 3600 RPM, 0.90 power factor
8. NOMINAL GROSS MW OUTPUT	360,000 MW
9. TYPE OF COOLING	Hydrogen
10. TYPE OF EXCITATION	Rotating brushless
BOILER	
1. DESCRIPTION OF PRIMARY FUEL	Coal, low sulfur, sub-bituminous
2. DESCRIPTION OF ALTERNATE FUEL	Natural Gas (2 Elevations)
3. MW DERATING - ALTER FUEL USE	200,000 MW
4. STARTUP FUEL	Natural gas
5. BOILER MANUFACTURER	Combustion Engineering
6. TYPE OF BOILER	Single furnace, controlled circulation, balanced draft
7. TYPE OF FUEL FIRING	Tangential firing
8. DESCRIPTION OF BURNER LAYOUT	Five burner levels, aux. & sec. air above and below each burner
POLLUTION CONTROL	
1. APPLICABLE AIR POLLUTION REG	40 C.F.R. §60 subpart D; 30 Texas Administrative Code ("TAC") § 101-122; Texas Air Permit 1388; 40 C.F.R. § 75; TX Title V O-15; 40 C.F.R. § 63 UUUUU; PSD Permit PSDTX631M1; 40 C.F.R. § 97; 40 C.F.R. § 98; TX Std Pmt 93027; TX Std Pmt 114029
2. MANUFACTURER OF PART. CONTROL	Research Cottrell
3. MANUFACTURER OF SOx CONTROL	N/A
4. MANUFACTURER OF NOx CONTROL	Combustion Engineering
5. TYPE OF PARTICULATE CONTROL	Cold side electrostatic precipitator with Arkay chemical injection
6. TYPE OF SOx CONTROL	Fuel quality
7. TYPE OF NOx CONTROL	Combustion control – Low NOx Burner/Separated Over-Fire Air ("LNB / SOFA")
8. CURRENT LEVEL OF PARTICULATES	0.0470 lb/MMBtu (Stack Test)
9. CURRENT LEVEL OF SOx	0.479 lb/MMBtu (CEMS)
10. CURRENT LEVEL OF NOx	0.142 lb/MMBtu (CEMS)
11. PEAK MW LOAD OF PART. SYSTEM	No limitation on unit
12. PEAK MW LOAD OF SOx SYSTEM	No limitation on unit
13. PEAK MW LOAD OF NOx SYSTEM	No limitation on unit
14. APPLICABLE WATER POLLUTION REG	30 TAC §§ 285, 305; 40 C.F.R. § 122.26
15. APPLICABLE WASTE DISPOSAL REG	30 TAC § 335
16. MANUF. OF WASTE WATER SYSTEM	Various
17. TYPE OF WASTE WATER SYSTEM	Irrigation of crops
18. MANUF OF WASTE DISPOSAL SYSTEM	Various
19. TYPE OF WASTE DISPOSAL SYSTEM	Recycle (Sales)/Storage/Disposal
20. PEAK MW LOAD OF WASTE WATER SYS	No limitation on unit
21. PEAK MW LOAD OF WASTE DISP SYS	No limitation on unit
AUXILIARIES & COOLING WATER SYSTEM	
1. DESCRIPTION OF COOLING WATER SYS	Treated sewage effluent circulated through forced draft cooling tower
2. MANUFACTURER OF COOLING WATER SYS	Cooling tower: Marley
3. PEAK MW LOAD OF COOLING WATER SYS	No limitation on unit
4. DESCRIPTION OF BOILER FEEDPUMP SYS	Steam turbine driven multistage barrel-type centrifugal pump
5. MANUFACTURER OF BOILER FEEDPUMP SYS	Westinghouse turbine / Worthington feedpump
6. PEAK MW LOAD OF BOILER FEEDPUMP SYS	No limitation on unit
7. DESCRIPTION OF COMBUSTION AIR SYS	Variable speed centrifugal forced draft and induced draft fans
8. MANUFACTURER OF COMBUSTION AIR SYS	Westinghouse Sturtevant
9. PEAK MW LOAD OF COMBUSTION AIR SYS	No limitation on unit
10. DESCRIPTION OF AIR PREHEATER	Two vertical regenerative Ljungstrom wheels
11. MANUFACTURER OF AIR PREHEATER	C-E Air preheater
12. PEAK MW LOAD OF AIR PREHEATER	No limitation on unit
13. DESCRIPTION OF FUEL FEED SYS	Gravimetric belt feeders
14. MANUFACTURER OF FUEL FEED SYS	Stock Equipment Company
15. PEAK MW LOAD OF FUEL FEED SYS	No limitation on unit

Southwestern Public Service Company

Harrington Station Unit 2 Generating Unit Characteristics

CATEGORY	DESCRIPTION / RESPONSE
TURBINE-GENERATOR	
1. TURBINE MANUFACTURER	Westinghouse
2. TURBINE DESCRIPTION	Tandem compound double flow
3. INLET TEMPERATURES / PRESSURES	Throttle - 1000ºF / 2400 psig; Hot Reheat - 1000ºF
4. NUMBER OF FEEDWATER HEATERS	7 closed heaters, 1 open deaerating heater
5. LAST ROW OF BLADING SIZE / RPMs	29.25" / 3600 RPM
6. GENERATOR MANUFACTURER	Westinghouse
7. NAMEPLATE RATINGS	24.0 kV, 400 MVA, 3600 RPM, 0.90 power factor
8. NOMINAL GROSS MW OUTPUT	360,000 MW
9. TYPE OF COOLING	Hydrogen
10. TYPE OF EXCITATION	Rotating brushless
BOILER	
1. DESCRIPTION OF PRIMARY FUEL	Coal, low sulfur, sub-bituminous
2. DESCRIPTION OF ALTERNATE FUEL	Natural Gas (1 Elevation)
3. MW DERATING - ALTER FUEL USE	150,000 MW
4. STARTUP FUEL	Natural gas
5. BOILER MANUFACTURER	Combustion Engineering
6. TYPE OF BOILER	Single furnace, controlled circulation, balanced draft
7. TYPE OF FUEL FIRING	Tangential firing
8. DESCRIPTION OF BURNER LAYOUT	Five burner levels, aux. & sec. air above and below each burner
POLLUTION CONTROL	
1. APPLICABLE AIR POLLUTION REG	40 C.F.R. § 60 subpart D; 30 TAC §§ 101-122, Texas Air Permit 5129; 40 C.F.R. § 75; TX Title V O-15; 40 C.F.R. § 63 UUUUU; PSD Permit PSDTX017M2; 40 C.F.R. 97; 40 C.F.R. § 98; TX Std Pmt 113945
2. MANUFACTURER OF PART. CONTROL	Wheelabrator-Frye
3. MANUFACTURER OF SOx CONTROL	N/A
4. MANUFACTURER OF NOx CONTROL	Combustion Engineering
5. TYPE OF PARTICULATE CONTROL	Shake/deflate baghouse
6. TYPE OF SOx CONTROL	Fuel quality
7. TYPE OF NOx CONTROL	Combustion control – LNB / SOFA
8. CURRENT LEVEL OF PARTICULATES	0.0113 lb/MMBtu (Stack Test)
9. CURRENT LEVEL OF SOx	0.482 lb/MMBtu (CEMS)
10. CURRENT LEVEL OF NOx	0.130 lb/MMBtu (CEMS)
11. PEAK MW LOAD OF PART. SYSTEM	No limitation on unit
12. PEAK MW LOAD OF SOx SYSTEM	No limitation on unit
13. PEAK MW LOAD OF NOx SYSTEM	No limitation on unit
14. APPLICABLE WATER POLLUTION REG	30 TAC §§ 285, 305
15. APPLICABLE WASTE DISPOSAL REG	30 TAC § 335
16. MANUF. OF WASTE WATER SYSTEM	Various
17. TYPE OF WASTE WATER SYSTEM	Irrigation of crops
18. MANUF OF WASTE DISPOSAL SYSTEM	Various
19. TYPE OF WASTE DISPOSAL SYSTEM	Recycle (Sales)/Storage/Disposal
20. PEAK MW LOAD OF WASTE WATER SYS	No limitation on unit
21. PEAK MW LOAD OF WASTE DISP SYS	No limitation on unit
AUXILIARIES & COOLING WATER SYSTEM	
1. DESCRIPTION OF COOLING WATER SYS	Treated sewage effluent circulated through forced draft cooling tower
2. MANUFACTURER OF COOLING WATER SYS	Cooling tower: Ecodyne
3. PEAK MW LOAD OF COOLING WATER SYS	No limitation on unit
4. DESCRIPTION OF BOILER FEEDPUMP SYS	Steam turbine driven multistage barrel-type centrifugal pump
5. MANUFACTURER OF BOILER FEEDPUMP SYS	Westinghouse turbine / Worthington feedpump
6. PEAK MW LOAD OF BOILER FEEDPUMP SYS	No limitation on unit
7. DESCRIPTION OF COMBUSTION AIR SYS	Variable speed centrifugal forced draft and induced draft fans
8. MANUFACTURER OF COMBUSTION AIR SYS	Westinghouse Sturtevant
9. PEAK MW LOAD OF COMBUSTION AIR SYS	No limitation on unit
10. DESCRIPTION OF AIR PREHEATER	Single vertical regenerative Ljungstrom wheel
11. MANUFACTURER OF AIR PREHEATER	C-E Air preheater
12. PEAK MW LOAD OF AIR PREHEATER	No limitation on unit
13. DESCRIPTION OF FUEL FEED SYS	Gravimetric belt feeders
14. MANUFACTURER OF FUEL FEED SYS	Merrick
15. PEAK MW LOAD OF FUEL FEED SYS	No limitation on unit

Southwestern Public Service Company

Harrington Station Unit 3 Generating Unit Characteristics

CATEGORY	DESCRIPTION / RESPONSE
TURBINE-GENERATOR	
1. TURBINE MANUFACTURER	Westinghouse
2. TURBINE DESCRIPTION	Tandem compound double flow
3. INLET TEMPERATURES / PRESSURES	Throttle - 1000ºF / 2400 psig; Hot Reheat - 1000ºF
4. NUMBER OF FEEDWATER HEATERS	Seven closed heaters, One open deaerating heater
5. LAST ROW OF BLADING SIZE / RPMs	30.75" / 3600 RPM
6. GENERATOR MANUFACTURER	Westinghouse
7. NAMEPLATE RATINGS	24.0 kV, 400 MVA, 3600 RPM, 0.90 power factor
8. NOMINAL GROSS MW OUTPUT	361,000 MW
9. TYPE OF COOLING	Hydrogen
10. TYPE OF EXCITATION	Rotating brushless
BOILER	
1. DESCRIPTION OF PRIMARY FUEL	Coal, low sulfur, sub-bituminous
2. DESCRIPTION OF ALTERNATE FUEL	Natural Gas (2 Elevations)
3. MW DERATING - ALTER FUEL USE	200,000 MW
4. STARTUP FUEL	Natural gas
5. BOILER MANUFACTURER	Combustion Engineering
6. TYPE OF BOILER	Single furnace, controlled circulation, balanced draft
7. TYPE OF FUEL FIRING	Tangential firing
8. DESCRIPTION OF BURNER LAYOUT	Five burner levels, aux. & sec. air above and below each burner
POLLUTION CONTROL	
1. APPLICABLE AIR POLLUTION REG	40 C.F.R. 60 subpart D; 30 TAC §§ 101-122, Texas Air Permit 5129; 40 C.F.R. 75; TX Title V O-15; 40 C.F.R. § 63 UUUUU; PSD Permit PSDTX017M2; 40 C.F.R. 97; 40 C.F.R. 98; TX Std Pmt 113945
2. MANUFACTURER OF PART. CONTROL	Wheelabrator-Frye
3. MANUFACTURER OF SOx CONTROL	N/A
4. MANUFACTURER OF NOx CONTROL	Combustion Engineering
5. TYPE OF PARTICULATE CONTROL	Shake/deflate baghouse
6. TYPE OF SOx CONTROL	Fuel quality
7. TYPE OF NOx CONTROL	Combustion control – LNB / SOFA
8. CURRENT LEVEL OF PARTICULATES	0.0136 lb/MMBtu (Stack Test)
9. CURRENT LEVEL OF SOx	0.467 lb/MMBtu (CEMS)
10. CURRENT LEVEL OF NOx	0.135 lb/MMBtu(CEMS)
11. PEAK MW LOAD OF PART. SYSTEM	No limitation on unit
12. PEAK MW LOAD OF SOx SYSTEM	No limitation on unit
13. PEAK MW LOAD OF NOx SYSTEM	No limitation on unit
14. APPLICABLE WATER POLLUTION REG	30 TAC §§ 285, 305
15. APPLICABLE WASTE DISPOSAL REG	30 TAC § 335
16. MANUF. OF WASTE WATER SYSTEM	Various
17. TYPE OF WASTE WATER SYSTEM	Irrigation of crops
18. MANUF OF WASTE DISPOSAL SYSTEM	Various
19. TYPE OF WASTE DISPOSAL SYSTEM	Recycle (Sales)/Storage/Disposal
20. PEAK MW LOAD OF WASTE WATER SYS	No limitation on unit
21. PEAK MW LOAD OF WASTE DISP SYS	No limitation on unit
AUXILIARIES & COOLING WATER SYSTEM	
1. DESCRIPTION OF COOLING WATER SYS	Treated sewage effluent circulated through forced draft cooling tower
2. MANUFACTURER OF COOLING WATER SYS	Cooling tower: SPS
3. PEAK MW LOAD OF COOLING WATER SYS	No limitation on unit
4. DESCRIPTION OF BOILER FEEDPUMP SYS	Steam turbine driven multistage barrel-type centrifugal pump
5. MANUFACTURER OF BOILER FEEDPUMP SYS	Westinghouse turbine / Worthington feedpump
6. PEAK MW LOAD OF BOILER FEEDPUMP SYS	No limitation on unit
7. DESCRIPTION OF COMBUSTION AIR SYS	Variable speed centrifugal forced draft and induced draft fans
8. MANUFACTURER OF COMBUSTION AIR SYS	Westinghouse Sturtevant
9. PEAK MW LOAD OF COMBUSTION AIR SYS	No limitation on unit
10. DESCRIPTION OF AIR PREHEATER	Regenerative corrugated plate Ljungstrom
11. MANUFACTURER OF AIR PREHEATER	Combustion Engineering Air preheater
12. PEAK MW LOAD OF AIR PREHEATER	No limitation on unit
13. DESCRIPTION OF FUEL FEED SYS	Gravimetric belt feeders
14. MANUFACTURER OF FUEL FEED SYS	Stock Equipment Company
15. PEAK MW LOAD OF FUEL FEED SYS	No limitation on unit

Southwestern Public Service Company

Jones Unit 1 Generating Unit Characteristics

CATEGORY	DESCRIPTION / RESPONSE
TURBINE-GENERATOR	
1. TURBINE MANUFACTURER	Westinghouse
2. TURBINE DESCRIPTION	Tandem compound double flow
3. INLET TEMPERATURES / PRESSURES	Throttle - 1000ºF / 1800 psig; Hot Reheat - 1000ºF
4. NUMBER OF FEEDWATER HEATERS	Five closed heaters, One open deaerating heater
5. LAST ROW OF BLADING SIZE / RPMs	25" / 3600 RPM
6. GENERATOR MANUFACTURER	Westinghouse
7. NAMEPLATE RATINGS	22.0 kV, 275 MVA, 3600 RPM, 0.90 power factor
8. NOMINAL GROSS MW OUTPUT	254,000 MW
9. TYPE OF COOLING	Hydrogen
10. TYPE OF EXCITATION	Rotating brushless
BOILER	
1. DESCRIPTION OF PRIMARY FUEL	Natural gas
2. DESCRIPTION OF ALTERNATE FUEL	No. 2 fuel oil
3. MW DERATING - ALTER FUEL USE	81,000 kW
4. STARTUP FUEL	Natural gas
5. BOILER MANUFACTURER	Combustion Engineering
6. TYPE OF BOILER	Single furnace - pressurized, natural circulation
7. TYPE OF FUEL FIRING	Tangential firing
8. DESCRIPTION OF BURNER LAYOUT	Four burner levels, primary & secondary air nozzles adjacent to each burner
POLLUTION CONTROL	
1. APPLICABLE AIR POLLUTION REG	40 C.F.R. § 60 subpart D; 30 TAC §§101-122; Texas Air Permit 1945; 40 C.F.R. § 75; TX Electric Generating Facility ("EGF") Permit 45590 (NOx budget); 40 C.F.R. § 97; 40 C.F.R. § 98; Title V Permit O-14
2. MANUFACTURER OF PART. CONTROL	N/A
3. MANUFACTURER OF SOx CONTROL	N/A
4. MANUFACTURER OF NOx CONTROL	Combustion Engineering
5. TYPE OF PARTICULATE CONTROL	N/A
6. TYPE OF SOx CONTROL	Fuel quality
7. TYPE OF NOx CONTROL	Combustion control
8. CURRENT LEVEL OF PARTICULATES	0.0076 lb/MMBtu (Natural Gas EPA publication AP 42)
9. CURRENT LEVEL OF SOx	0.0006 lb/MMBtu (Natural Gas EPA publication AP 42)
10. CURRENT LEVEL OF NOx	0.131 lb/MMBtu (CEMS)
11. PEAK MW LOAD OF PART. SYSTEM	No limitation on unit
12. PEAK MW LOAD OF SOx SYSTEM	No limitation on unit
13. PEAK MW LOAD OF NOx SYSTEM	No limitation on unit
14. APPLICABLE WATER POLLUTION REG	30 TAC §§ 285, 305
15. APPLICABLE WASTE DISPOSAL REG	30 TAC § 335
16. MANUF. OF WASTE WATER SYSTEM	Various
17. TYPE OF WASTE WATER SYSTEM	Irrigation of crops
18. MANUF OF WASTE DISPOSAL SYSTEM	Various
19. TYPE OF WASTE DISPOSAL SYSTEM	Recycle/Storage/Disposal
20. PEAK MW LOAD OF WASTE WATER SYS	No limitation on unit
21. PEAK MW LOAD OF WASTE DISP SYS	No limitation on unit
AUXILIARIES & COOLING WATER SYSTEM	
1. DESCRIPTION OF COOLING WATER SYS	Treated sewage effluent; cooling tower
2. MANUFACTURER OF COOLING WATER SYS	Cooling tower: SPS
3. PEAK MW LOAD OF COOLING WATER SYS	No limitation on unit
4. DESCRIPTION OF BOILER FEEDPUMP SYS	Motor driven, variable speed, multistage, barrel type centrifugal pump
5. MANUFACTURER OF BOILER FEEDPUMP SYS	Worthington
6. PEAK MW LOAD OF BOILER FEEDPUMP SYS	No limitation on unit
7. DESCRIPTION OF COMBUSTION AIR SYS	Variable speed centrifugal forced draft fans
8. MANUFACTURER OF COMBUSTION AIR SYS	Howden-Apco
9. PEAK MW LOAD OF COMBUSTION AIR SYS	No limitation on unit
10. DESCRIPTION OF AIR PREHEATER	Regenerative corrugated plate Ljungstrom
11. MANUFACTURER OF AIR PREHEATER	Combustion Engineering Air Preheater
12. PEAK MW LOAD OF AIR PREHEATER	No limitation on unit
13. DESCRIPTION OF FUEL FEED SYS	N/A
14. MANUFACTURER OF FUEL FEED SYS	N/A
15. PEAK MW LOAD OF FUEL FEED SYS	N/A

Jones Unit 2 Generating Unit Characteristics

Southwestern Public Service Company

CATEGORY	DESCRIPTION / RESPONSE
TURBINE-GENERATOR	
1. TURBINE MANUFACTURER	Westinghouse
2. TURBINE DESCRIPTION	Tandem compound double flow
3. INLET TEMPERATURES / PRESSURES	Throttle - 1000ºF / 1800 psig; Hot Reheat - 1000ºF
4. NUMBER OF FEEDWATER HEATERS	Five closed heaters, one open deaerating heater
5. LAST ROW OF BLADING SIZE / RPMs	25" / 3600 RPM
6. GENERATOR MANUFACTURER	Westinghouse
7. NAMEPLATE RATINGS	22.0 kV, 275 MVA, 3600 RPM, 0.90 power factor
8. NOMINAL GROSS MW OUTPUT	254,000 MW
9. TYPE OF COOLING	Hydrogen
10. TYPE OF EXCITATION	Rotating brushless
BOILER	
1. DESCRIPTION OF PRIMARY FUEL	Natural gas
2. DESCRIPTION OF ALTERNATE FUEL	No. 2 fuel oil
3. MW DERATING - ALTER FUEL USE	56,000 kW
4. STARTUP FUEL	Natural gas
5. BOILER MANUFACTURER	Combustion Engineering
6. TYPE OF BOILER	Single furnace - pressurized, natural circulation
7. TYPE OF FUEL FIRING	Tangential firing
8. DESCRIPTION OF BURNER LAYOUT	Four burner levels, primary & secondary air nozzles adjacent to each burner
POLLUTION CONTROL	
1. APPLICABLE AIR POLLUTION REG	30 TAC §§ 101-122; 40 C.F.R. § 75; TX EGF Permit 45590 (NOx budget); Title V Permit O-14; 40 C.F.R. §97; 40 C.F.R. § 98
2. MANUFACTURER OF PART. CONTROL	N/A
3. MANUFACTURER OF SOx CONTROL	N/A
4. MANUFACTURER OF NOx CONTROL	Combustion Engineering
5. TYPE OF PARTICULATE CONTROL	N/A
6. TYPE OF SOx CONTROL	Fuel quality
7. TYPE OF NOx CONTROL	Combustion control
8. CURRENT LEVEL OF PARTICULATES	0.0076 lb/MMBtu (Natural Gas EPA publication AP 42)
9. CURRENT LEVEL OF SOx	0.0006 lb/MMBtu (Natural Gas EPA publication AP 42)
10. CURRENT LEVEL OF NOx	0.099 lb/MMBtu (CEMS)
11. PEAK MW LOAD OF PART. SYSTEM	No limitation on unit
12. PEAK MW LOAD OF SOx SYSTEM	No limitation on unit
13. PEAK MW LOAD OF NOx SYSTEM	No limitation on unit
14. APPLICABLE WATER POLLUTION REG	30 TAC §§ 285, 305
15. APPLICABLE WASTE DISPOSAL REG	30 TAC § 335
16. MANUF. OF WASTE WATER SYSTEM	Various
17. TYPE OF WASTE WATER SYSTEM	Irrigation of crops
18. MANUF OF WASTE DISPOSAL SYSTEM	Various
19. TYPE OF WASTE DISPOSAL SYSTEM	Recycle/Storage/Disposal
20. PEAK MW LOAD OF WASTE WATER SYS	No limitation on unit
21. PEAK MW LOAD OF WASTE DISP SYS	No limitation on unit
AUXILIARIES & COOLING WATER SYSTEM	
1. DESCRIPTION OF COOLING WATER SYS	Treated sewage effluent; cooling tower
2. MANUFACTURER OF COOLING WATER SYS	Cooling tower: Ecodyne
3. PEAK MW LOAD OF COOLING WATER SYS	No limitation on unit
4. DESCRIPTION OF BOILER FEEDPUMP SYS	Motor driven, variable speed, multistage, barrel type centrifugal pump
5. MANUFACTURER OF BOILER FEEDPUMP SYS	Worthington
6. PEAK MW LOAD OF BOILER FEEDPUMP SYS	No limitation on unit
7. DESCRIPTION OF COMBUSTION AIR SYS	Variable speed centrifugal forced draft fans
8. MANUFACTURER OF COMBUSTION AIR SYS	Howden-Apco
9. PEAK MW LOAD OF COMBUSTION AIR SYS	No limitation on unit
10. DESCRIPTION OF AIR PREHEATER	Regenerative corrugated plate Ljungstrom
11. MANUFACTURER OF AIR PREHEATER	Combustion Engineering Air Preheater
12. PEAK MW LOAD OF AIR PREHEATER	No limitation on unit
13. DESCRIPTION OF FUEL FEED SYS	N/A
14. MANUFACTURER OF FUEL FEED SYS	N/A
15. PEAK MW LOAD OF FUEL FEED SYS	N/A

Southwestern Public Service Company

Jones Unit 3 Generating Unit Characteristics

CATEGORY	DESCRIPTION / RESPONSE
TURBINE-GENERATOR	
1. TURBINE MANUFACTURER	Siemens
2. TURBINE DESCRIPTION	SGT6 5000F (4) Gas Turbine
3. INLET TEMPERATURES / PRESSURES	N/A
4. NUMBER OF FEEDWATER HEATERS	N/A
5. LAST ROW OF BLADING SIZE / RPMs	3600 RPM
6. GENERATOR MANUFACTURER	Siemens
7. NAMEPLATE RATINGS	16.5 kV, 203 MVA, 3600 RPM, 0.90 power factor
8. NOMINAL GROSS MW OUTPUT	167,000 MW Summer / 184,000 MW Winter
9. TYPE OF COOLING	Air
10. TYPE OF EXCITATION	Rotating Brush
BOILER	
1. DESCRIPTION OF PRIMARY FUEL	N/A
2. DESCRIPTION OF ALTERNATE FUEL	N/A
3. MW DERATING - ALTER FUEL USE	N/A
4. STARTUP FUEL	N/A
5. BOILER MANUFACTURER	N/A
6. TYPE OF BOILER	N/A
7. TYPE OF FUEL FIRING	N/A
8. DESCRIPTION OF BURNER LAYOUT	N/A
POLLUTION CONTROL	
1. APPLICABLE AIR POLLUTION REG	30 TAC §§ 101-122; 40 C.F.R. § 60 Subpart KKKK; TX Permit 92156; 40 C.F.R. § 75; TX Title V Permit O-14; 40 C.F.R. § 97; 40 C.F.R. § 98
2. MANUFACTURER OF PART. CONTROL	N/A
3. MANUFACTURER OF SOx CONTROL	N/A
4. MANUFACTURER OF NOx CONTROL	Siemens
5. TYPE OF PARTICULATE CONTROL	N/A
6. TYPE OF SOx CONTROL	Fuel quality
7. TYPE OF NOx CONTROL	Ultra-Low NOx Burners (ULN)
8. CURRENT LEVEL OF PARTICULATES	0.0026 lb/MMBtu (Stack Test)
9. CURRENT LEVEL OF SOx	0.0006 lb/MMBtu (Natural Gas EPA AP42)
10. CURRENT LEVEL OF NOx	0.032 lb/MMBtu (CEMS)
11. PEAK MW LOAD OF PART. SYSTEM	No Limit
12. PEAK MW LOAD OF SOx SYSTEM	No Limit
13. PEAK MW LOAD OF NOx SYSTEM	No Limit
14. APPLICABLE WATER POLLUTION REG	N/A
15. APPLICABLE WASTE DISPOSAL REG	30 TAC § 335
16. MANUF. OF WASTE WATER SYSTEM	N/A
17. TYPE OF WASTE WATER SYSTEM	N/A
18. MANUF OF WASTE DISPOSAL SYSTEM	Various
19. TYPE OF WASTE DISPOSAL SYSTEM	Recycle/Storage/Disposal
20. PEAK MW LOAD OF WASTE WATER SYS	N/A
21. PEAK MW LOAD OF WASTE DISP SYS	No Limit
AUXILIARIES & COOLING WATER SYSTEM	
1. DESCRIPTION OF COOLING WATER SYS	N/A
2. MANUFACTURER OF COOLING WATER SYS	N/A
3. PEAK MW LOAD OF COOLING WATER SYS	N/A
4. DESCRIPTION OF BOILER FEEDPUMP SYS	N/A
5. MANUFACTURER OF BOILER FEEDPUMP SYS	N/A
6. PEAK MW LOAD OF BOILER FEEDPUMP SYS	N/A
7. DESCRIPTION OF COMBUSTION AIR SYS	N/A
8. MANUFACTURER OF COMBUSTION AIR SYS	N/A
9. PEAK MW LOAD OF COMBUSTION AIR SYS	N/A
10. DESCRIPTION OF AIR PREHEATER	N/A
11. MANUFACTURER OF AIR PREHEATER	N/A
12. PEAK MW LOAD OF AIR PREHEATER	N/A
13. DESCRIPTION OF FUEL FEED SYS	N/A
14. MANUFACTURER OF FUEL FEED SYS	N/A
15. PEAK MW LOAD OF FUEL FEED SYS	N/A

Southwestern Public Service Company

Jones Unit 4 Generating Unit Characteristics

CATEGORY	DESCRIPTION / RESPONSE
TURBINE-GENERATOR	
1. TURBINE MANUFACTURER	Siemens
2. TURBINE DESCRIPTION	SGT6 5000F (4) Gas Turbine
3. INLET TEMPERATURES / PRESSURES	N/A
4. NUMBER OF FEEDWATER HEATERS	N/A
5. LAST ROW OF BLADING SIZE / RPMs	3600 RPM
6. GENERATOR MANUFACTURER	Siemens
7. NAMEPLATE RATINGS	16.5 kV, 203 MVA, 3600 RPM, 0.90 power factor
8. NOMINAL GROSS MW OUTPUT	169,000 MW Summer / 184,000 MW Winter
9. TYPE OF COOLING	Air
10. TYPE OF EXCITATION	Rotating Brush
BOILER	
1. DESCRIPTION OF PRIMARY FUEL	N/A
2. DESCRIPTION OF ALTERNATE FUEL	N/A
3. MW DERATING - ALTER FUEL USE	N/A
4. STARTUP FUEL	N/A
5. BOILER MANUFACTURER	N/A
6. TYPE OF BOILER	N/A
7. TYPE OF FUEL FIRING	N/A
8. DESCRIPTION OF BURNER LAYOUT	N/A
POLLUTION CONTROL	
1. APPLICABLE AIR POLLUTION REG	30 TAC §§ 101-122; 40 C.F.R. § 60 Subpart KKKK; TX Permit 98073; 40 C.F.R. § 75; TX Title V Permit O-14; 40 C.F.R. § 97; 40 C.F.R. § 98
2. MANUFACTURER OF PART. CONTROL	N/A
3. MANUFACTURER OF SOx CONTROL	N/A
4. MANUFACTURER OF NOx CONTROL	Siemens
5. TYPE OF PARTICULATE CONTROL	N/A
6. TYPE OF SOx CONTROL	Fuel quality
7. TYPE OF NOx CONTROL	Ultra-Low NOx Burners (ULN)
8. CURRENT LEVEL OF PARTICULATES	0.001 lb/MMBtu (Stack Test)
9. CURRENT LEVEL OF SOx	0.0006 lb/MMBtu (N.G.EPA AP42)
10. CURRENT LEVEL OF NOx	0.033 lb/MMBtu (CEMS)
11. PEAK MW LOAD OF PART. SYSTEM	No Limit
12. PEAK MW LOAD OF SOx SYSTEM	No Limit
13. PEAK MW LOAD OF NOx SYSTEM	No Limit
14. APPLICABLE WATER POLLUTION REG	N/A
15. APPLICABLE WASTE DISPOSAL REG	30 TAC § 335
16. MANUF. OF WASTE WATER SYSTEM	N/A
17. TYPE OF WASTE WATER SYSTEM	N/A
18. MANUF OF WASTE DISPOSAL SYSTEM	Various
19. TYPE OF WASTE DISPOSAL SYSTEM	Recycle/Storage/Disposal
20. PEAK MW LOAD OF WASTE WATER SYS	N/A
21. PEAK MW LOAD OF WASTE DISP SYS	No Limit
AUXILIARIES & COOLING WATER SYSTEM	
1. DESCRIPTION OF COOLING WATER SYS	N/A
2. MANUFACTURER OF COOLING WATER SYS	N/A
3. PEAK MW LOAD OF COOLING WATER SYS	N/A
4. DESCRIPTION OF BOILER FEEDPUMP SYS	N/A
5. MANUFACTURER OF BOILER FEEDPUMP SYS	N/A
6. PEAK MW LOAD OF BOILER FEEDPUMP SYS	N/A
7. DESCRIPTION OF COMBUSTION AIR SYS	N/A
8. MANUFACTURER OF COMBUSTION AIR SYS	N/A
9. PEAK MW LOAD OF COMBUSTION AIR SYS	N/A
10. DESCRIPTION OF AIR PREHEATER	N/A
11. MANUFACTURER OF AIR PREHEATER	N/A
12. PEAK MW LOAD OF AIR PREHEATER	N/A
13. DESCRIPTION OF FUEL FEED SYS	N/A
14. MANUFACTURER OF FUEL FEED SYS	N/A
15. PEAK MW LOAD OF FUEL FEED SYS	N/A

Southwestern Public Service Company

Maddox Unit 1 Generating Unit Characteristics

CATEGORY	DESCRIPTION / RESPONSE
TURBINE-GENERATOR	
1. TURBINE MANUFACTURER	Westinghouse
2. TURBINE DESCRIPTION	Tandem-compound, double flow
3. INLET TEMPERATURES / PRESSURES	Throttle - 1000ºF / 1450 psig, Hot Reheat - 1000ºF
4. NUMBER OF FEEDWATER HEATERS	Four closed heaters, one open deaerating heater
5. LAST ROW OF BLADING SIZE / RPMs	23" / 3600 RPM
6. GENERATOR MANUFACTURER	Westinghouse
7. NAMEPLATE RATINGS	13.8 kV, 133.7 MVA, 3600 RPM, 0.85 power factor
8. NOMINAL GROSS MW OUTPUT	117,000 MW
9. TYPE OF COOLING	Hydrogen
10. TYPE OF EXCITATION	Rotating
BOILER	
1. DESCRIPTION OF PRIMARY FUEL	Natural gas
2. DESCRIPTION OF ALTERNATE FUEL	none
3. MW DERATING - ALTER FUEL USE	N/A
4. STARTUP FUEL	Natural gas
5. BOILER MANUFACTURER	Combustion Engineering
6. TYPE OF BOILER	Single furnace - pressurized, natural circulation
7. TYPE OF FUEL FIRING	Tangentially fired
8. DESCRIPTION OF BURNER LAYOUT	Four burner levels, primary & secondary air nozzles adjacent to each burner
POLLUTION CONTROL	
1. APPLICABLE AIR POLLUTION REG	20.2.1 NMAC – 20.2.350 NMAC; N.M. AQC Permit 747M1; 40 C.F.R. § 75; 40 C.F.R. § 98; Title V Permit P008-R3M1
2. MANUFACTURER OF PART. CONTROL	N/A
3. MANUFACTURER OF SOx CONTROL	N/A
4. MANUFACTURER OF NOx CONTROL	Combustion Engineering
5. TYPE OF PARTICULATE CONTROL	N/A
6. TYPE OF SOx CONTROL	Fuel quality
7. TYPE OF NOx CONTROL	Combustion control
8. CURRENT LEVEL OF PARTICULATES	0.007 lb/MMBtu (Natural Gas EPA publication AP 42)
9. CURRENT LEVEL OF SOx	0.0006 lb/MMBtu (Natural Gas EPA publication AP 42)
10. CURRENT LEVEL OF NOx	0.175 lb/MMBtu (CEMS)
11. PEAK MW LOAD OF PART. SYSTEM	No limitation on unit
12. PEAK MW LOAD OF SOx SYSTEM	No limitation on unit
13. PEAK MW LOAD OF NOx SYSTEM	No limitation on unit
14. APPLICABLE WATER POLLUTION REG	N.M. Water Quality Control Regulations
15. APPLICABLE WASTE DISPOSAL REG	N.M. EIB/SWMR-2
16. MANUF. OF WASTE WATER SYSTEM	Various
17. TYPE OF WASTE WATER SYSTEM	Lined Pond – Irrigation of Corps
18. MANUF OF WASTE DISPOSAL SYSTEM	Various
19. TYPE OF WASTE DISPOSAL SYSTEM	Recycle/Storage/Disposal
20. PEAK MW LOAD OF WASTE WATER SYS	No limitation on unit
21. PEAK MW LOAD OF WASTE DISP SYS	No limitation on unit
AUXILIARIES & COOLING WATER SYSTEM	
1. DESCRIPTION OF COOLING WATER SYS	Well water makeup; forced draft cooling tower
2. MANUFACTURER OF COOLING WATER SYS	Cooling tower: Fluor
3. PEAK MW LOAD OF COOLING WATER SYS	No limitation on unit
4. DESCRIPTION OF BOILER FEEDPUMP SYS	Motor driven, variable speed, multistage, horizontally split centrifugal pump
5. MANUFACTURER OF BOILER FEEDPUMP SYS	Pacific
6. PEAK MW LOAD OF BOILER FEEDPUMP SYS	No limitation on unit
7. DESCRIPTION OF COMBUSTION AIR SYS	Variable speed centrifugal forced draft fan
8. MANUFACTURER OF COMBUSTION AIR SYS	Howden-Apco
9. PEAK MW LOAD OF COMBUSTION AIR SYS	No limitation on unit
10. DESCRIPTION OF AIR PREHEATER	Regenerative corrugated plate Ljungstrom
11. MANUFACTURER OF AIR PREHEATER	Combustion Engineering Air Preheater
12. PEAK MW LOAD OF AIR PREHEATER	No limitation on unit
13. DESCRIPTION OF FUEL FEED SYS	N/A
14. MANUFACTURER OF FUEL FEED SYS	N/A
15. PEAK MW LOAD OF FUEL FEED SYS	N/A

Southwestern Public Service Company

Maddox Unit 2 Generating Unit Characteristics

CATEGORY	DESCRIPTION / RESPONSE
TURBINE-GENERATOR	
1. TURBINE MANUFACTURER	Westinghouse
2. TURBINE DESCRIPTION	W-501B4 combustion turbine
3. INLET TEMPERATURES / PRESSURES	N/A
4. NUMBER OF FEEDWATER HEATERS	N/A
5. LAST ROW OF BLADING SIZE / RPMs	N/A
6. GENERATOR MANUFACTURER	Westinghouse
7. NAMEPLATE RATINGS	13.8 kV, 89.5 MVA, 3600 RPM, 0.90 power factor
8. NOMINAL GROSS MW OUTPUT	63,000 MW Summer / 64,000 MW Winter
9. TYPE OF COOLING	Air
10. TYPE OF EXCITATION	Brushless
BOILER	
1. DESCRIPTION OF PRIMARY FUEL	N/A
2. DESCRIPTION OF ALTERNATE FUEL	N/A
3. MW DERATING - ALTER FUEL USE	N/A
4. STARTUP FUEL	N/A
5. BOILER MANUFACTURER	N/A
6. TYPE OF BOILER	N/A
7. TYPE OF FUEL FIRING	N/A
8. DESCRIPTION OF BURNER LAYOUT	N/A
POLLUTION CONTROL	
1. APPLICABLE AIR POLLUTION REG	20.2.1 NMAC – 20.2.350 NMAC; N.M. AQC Permit 747M1; 40 C.F.R. § 98; Title V Permit P008-R3M1
2. MANUFACTURER OF PART. CONTROL	N/A
3. MANUFACTURER OF SOx CONTROL	N/A
4. MANUFACTURER OF NOx CONTROL	N/A
5. TYPE OF PARTICULATE CONTROL	N/A
6. TYPE OF SOx CONTROL	Fuel quality
7. TYPE OF NOx CONTROL	Water injection
8. CURRENT LEVEL OF PARTICULATES	0.0066 lb/MMBtu (EPA publication AP 42)
9. CURRENT LEVEL OF SOx	0.0006 lb/MMBtu (Natural Gas EPA publication AP 42)
10. CURRENT LEVEL OF NOx	0.276 lb/MMBtu (Stack Test)
11. PEAK MW LOAD OF PART. SYSTEM	No limitation on unit
12. PEAK MW LOAD OF SOx SYSTEM	No limitation on unit
13. PEAK MW LOAD OF NOx SYSTEM	No limitation on unit
14. APPLICABLE WATER POLLUTION REG	N.M. Water Quality Control Regulations
15. APPLICABLE WASTE DISPOSAL REG	N.M. EIB/SWMR-2
16. MANUF. OF WASTE WATER SYSTEM	Various
17. TYPE OF WASTE WATER SYSTEM	Lined Pond – Irrigation of Corps
18. MANUF OF WASTE DISPOSAL SYSTEM	Various
19. TYPE OF WASTE DISPOSAL SYSTEM	Recycle/Storage/Disposal
20. PEAK MW LOAD OF WASTE WATER SYS	No limitation on unit
21. PEAK MW LOAD OF WASTE DISP SYS	No limitation on unit
AUXILIARIES & COOLING WATER SYSTEM	
1. DESCRIPTION OF COOLING WATER SYS	N/A
2. MANUFACTURER OF COOLING WATER SYS	N/A
3. PEAK MW LOAD OF COOLING WATER SYS	N/A
4. DESCRIPTION OF BOILER FEEDPUMP SYS	N/A
5. MANUFACTURER OF BOILER FEEDPUMP SYS	N/A
6. PEAK MW LOAD OF BOILER FEEDPUMP SYS	N/A
7. DESCRIPTION OF COMBUSTION AIR SYS	N/A
8. MANUFACTURER OF COMBUSTION AIR SYS	N/A
9. PEAK MW LOAD OF COMBUSTION AIR SYS	N/A
10. DESCRIPTION OF AIR PREHEATER	N/A
11. MANUFACTURER OF AIR PREHEATER	N/A
12. PEAK MW LOAD OF AIR PREHEATER	N/A
13. DESCRIPTION OF FUEL FEED SYS	N/A
14. MANUFACTURER OF FUEL FEED SYS	N/A
15. PEAK MW LOAD OF FUEL FEED SYS	N/A

Southwestern Public Service Company

Maddox Unit 3 Generating Unit Characteristics

CATEGORY	DESCRIPTION / RESPONSE
TURBINE-GENERATOR	
1. TURBINE MANUFACTURER	General Electric
2. TURBINE DESCRIPTION	5001E combustion turbine
3. INLET TEMPERATURES / PRESSURES	N/A
4. NUMBER OF FEEDWATER HEATERS	N/A
5. LAST ROW OF BLADING SIZE / RPMs	N/A
6. GENERATOR MANUFACTURER	General Electric
7. NAMEPLATE RATINGS	13.8 kV, 13.5 MVA, 3600 RPM, 0.85 power factor
8. NOMINAL GROSS MW OUTPUT	0 MW (Black Start Unit)
9. TYPE OF COOLING	Air
10. TYPE OF EXCITATION	Brushless
BOILER	
1. DESCRIPTION OF PRIMARY FUEL	N/A
2. DESCRIPTION OF ALTERNATE FUEL	N/A
3. MW DERATING - ALTER FUEL USE	N/A
4. STARTUP FUEL	N/A
5. BOILER MANUFACTURER	N/A
6. TYPE OF BOILER	N/A
7. TYPE OF FUEL FIRING	N/A
8. DESCRIPTION OF BURNER LAYOUT	N/A
POLLUTION CONTROL	
1. APPLICABLE AIR POLLUTION REG	20.2.1 NMAC – 20.2.350 NMAC; N.M. AQC Permit 747M1; 40 C.F.R. § 98, Title V Permit P008-R3M1
2. MANUFACTURER OF PART. CONTROL	N/A
3. MANUFACTURER OF SOx CONTROL	N/A
4. MANUFACTURER OF NOx CONTROL	N/A
5. TYPE OF PARTICULATE CONTROL	N/A
6. TYPE OF SOx CONTROL	Fuel quality
7. TYPE OF NOx CONTROL	Water injection
8. CURRENT LEVEL OF PARTICULATES	0.0066 lb/MMBtu (EPA publication AP 42)
9. CURRENT LEVEL OF SOx	0.0006 lb/MMBtu (Natural Gas EPA publication AP 42)
10. CURRENT LEVEL OF NOx	0.321 lb/MMBtu (Stack Test)
11. PEAK MW LOAD OF PART. SYSTEM	No limitation on unit
12. PEAK MW LOAD OF SOx SYSTEM	No limitation on unit
13. PEAK MW LOAD OF NOx SYSTEM	No limitation on unit
14. APPLICABLE WATER POLLUTION REG	N.M. Water Quality Control Regulations
15. APPLICABLE WASTE DISPOSAL REG	N.M. EIB/SWMR-2
16. MANUF. OF WASTE WATER SYSTEM	Various
17. TYPE OF WASTE WATER SYSTEM	Lined Pond – Irrigation of Corps
18. MANUF OF WASTE DISPOSAL SYSTEM	Various
19. TYPE OF WASTE DISPOSAL SYSTEM	Recycle/Storage/Disposal
20. PEAK MW LOAD OF WASTE WATER SYS	No limitation on unit
21. PEAK MW LOAD OF WASTE DISP SYS	No limitation on unit
AUXILIARIES & COOLING WATER SYSTEM	
1. DESCRIPTION OF COOLING WATER SYS	N/A
2. MANUFACTURER OF COOLING WATER SYS	N/A
3. PEAK MW LOAD OF COOLING WATER SYS	N/A
4. DESCRIPTION OF BOILER FEEDPUMP SYS	N/A
5. MANUFACTURER OF BOILER FEEDPUMP SYS	N/A
6. PEAK MW LOAD OF BOILER FEEDPUMP SYS	N/A
7. DESCRIPTION OF COMBUSTION AIR SYS	N/A
8. MANUFACTURER OF COMBUSTION AIR SYS	N/A
9. PEAK MW LOAD OF COMBUSTION AIR SYS	N/A
10. DESCRIPTION OF AIR PREHEATER	N/A
11. MANUFACTURER OF AIR PREHEATER	N/A
12. PEAK MW LOAD OF AIR PREHEATER	N/A
13. DESCRIPTION OF FUEL FEED SYS	N/A
14. MANUFACTURER OF FUEL FEED SYS	N/A
15. PEAK MW LOAD OF FUEL FEED SYS	N/A

Southwestern Public Service Company

Nichols Unit 1 Generating Unit Characteristics

CATEGORY	DESCRIPTION / RESPONSE
TURBINE-GENERATOR	
1. TURBINE MANUFACTURER	General Electric
2. TURBINE DESCRIPTION	Tandem compound double flow
3. INLET TEMPERATURES / PRESSURES	Throttle - 1000ºF / 1450 psig, Hot Reheat - 1000ºF
4. NUMBER OF FEEDWATER HEATERS	Four closed heaters, one open deaerating heater
5. LAST ROW OF BLADING SIZE / RPMs	23" / 3600 RPM
6. GENERATOR MANUFACTURER	General Electric
7. NAMEPLATE RATINGS	13.8 kV, 133.7 MVA, 3600 RPM, 0.85 power factor
8. NOMINAL GROSS MW OUTPUT	112,000 MW
9. TYPE OF COOLING	Hydrogen
10. TYPE OF EXCITATION	Rotating
BOILER	
1. DESCRIPTION OF PRIMARY FUEL	Natural Gas
2. DESCRIPTION OF ALTERNATE FUEL	none
3. MW DERATING - ALTER FUEL USE	N/A
4. STARTUP FUEL	Natural Gas
5. BOILER MANUFACTURER	Combustion Engineering
6. TYPE OF BOILER	Single furnace - pressurized, natural circulation
7. TYPE OF FUEL FIRING	Tangential firing
8. DESCRIPTION OF BURNER LAYOUT	Four burner levels, primary & secondary air nozzles adjacent to each burner
POLLUTION CONTROL	
1. APPLICABLE AIR POLLUTION REG	30 TAC §§ 101-122; 40 C.F.R. § 75; TX EGF Permit 45589 (NOx budget); TX Title V O-13; 40 C.F.R. § 97; 40 C.F.R. § 98
2. MANUFACTURER OF PART. CONTROL	N/A
3. MANUFACTURER OF SOx CONTROL	N/A
4. MANUFACTURER OF NOx CONTROL	Combustion Engineering
5. TYPE OF PARTICULATE CONTROL	N/A
6. TYPE OF SOx CONTROL	Fuel quality
7. TYPE OF NOx CONTROL	Combustion control
8. CURRENT LEVEL OF PARTICULATES	0.00753 lb/MMBtu (Natural Gas EPA publication AP 42)
9. CURRENT LEVEL OF SOx	0.0006 lb/MMBtu (Natural Gas EPA publication AP 42)
10. CURRENT LEVEL OF NOx	0.175 lb/MMBtu (CEMS)
11. PEAK MW LOAD OF PART. SYSTEM	No limitation on unit
12. PEAK MW LOAD OF SOx SYSTEM	No limitation on unit
13. PEAK MW LOAD OF NOx SYSTEM	No limitation on unit
14. APPLICABLE WATER POLLUTION REG	30 TAC §§ 285, 305
15. APPLICABLE WASTE DISPOSAL REG	30 TAC § 335
16. MANUF. OF WASTE WATER SYSTEM	Various
17. TYPE OF WASTE WATER SYSTEM	Irrigation of crops
18. MANUF OF WASTE DISPOSAL SYSTEM	Various
19. TYPE OF WASTE DISPOSAL SYSTEM	Recycle/Storage/Disposal
20. PEAK MW LOAD OF WASTE WATER SYS	No limitation on unit
21. PEAK MW LOAD OF WASTE DISP SYS	No limitation on unit
AUXILIARIES & COOLING WATER SYSTEM	
1. DESCRIPTION OF COOLING WATER SYS	Treated sewage effluent; cooling tower
2. MANUFACTURER OF COOLING WATER SYS	Cooling tower: Fluor
3. PEAK MW LOAD OF COOLING WATER SYS	No limitation on unit
4. DESCRIPTION OF BOILER FEEDPUMP SYS	Motor driven, variable speed, multistage, barrel type centrifugal pump
5. MANUFACTURER OF BOILER FEEDPUMP SYS	Worthington
6. PEAK MW LOAD OF BOILER FEEDPUMP SYS	No limitation on unit
7. DESCRIPTION OF COMBUSTION AIR SYS	Constant speed centrifugal forced draft fans, vane control
8. MANUFACTURER OF COMBUSTION AIR SYS	Westinghouse Sturtevant
9. PEAK MW LOAD OF COMBUSTION AIR SYS	No limitation on unit
10. DESCRIPTION OF AIR PREHEATER	Regenerative corrugated plate Ljungstrom
11. MANUFACTURER OF AIR PREHEATER	Air Preheater Corp. /Combustion Engineering Air Preheater
12. PEAK MW LOAD OF AIR PREHEATER	No limitation on unit
13. DESCRIPTION OF FUEL FEED SYS	N/A
14. MANUFACTURER OF FUEL FEED SYS	N/A
15. PEAK MW LOAD OF FUEL FEED SYS	N/A

Southwestern Public Service Company

Nichols Unit 2 Generating Unit Characteristics

CATEGORY	DESCRIPTION / RESPONSE
TURBINE-GENERATOR	
1. TURBINE MANUFACTURER	Westinghouse
2. TURBINE DESCRIPTION	Tandem compound double flow
3. INLET TEMPERATURES / PRESSURES	Throttle - 1000ºF / 1450 psig, Hot Reheat - 1000ºF
4. NUMBER OF FEEDWATER HEATERS	Four closed heaters, one open deaerating heater
5. LAST ROW OF BLADING SIZE / RPMs	23" / 3600 RPM
6. GENERATOR MANUFACTURER	Westinghouse
7. NAMEPLATE RATINGS	13.8 kV, 133.7 MVA, 3600 RPM, 0.85 power factor
8. NOMINAL GROSS MW OUTPUT	111,000 MW
9. TYPE OF COOLING	Hydrogen
10. TYPE OF EXCITATION	Rotating
BOILER	
1. DESCRIPTION OF PRIMARY FUEL	Natural Gas
2. DESCRIPTION OF ALTERNATE FUEL	none
3. MW DERATING - ALTER FUEL USE	N/A
4. STARTUP FUEL	Natural Gas
5. BOILER MANUFACTURER	Combustion Engineering
6. TYPE OF BOILER	Single furnace - pressurized, natural circulation
7. TYPE OF FUEL FIRING	Tangential firing
8. DESCRIPTION OF BURNER LAYOUT	Four burner levels, primary & secondary air nozzles adjacent to each burner
POLLUTION CONTROL	
1. APPLICABLE AIR POLLUTION REG	30 TAC §§ 101-122; 40 C.F.R. § 75; TX EGF Permit 45589 (NOx budget); TX Title V O-13; 40 C.F.R § 97; 40 C.F.R. § 98
2. MANUFACTURER OF PART. CONTROL	N/A
3. MANUFACTURER OF SOx CONTROL	N/A
4. MANUFACTURER OF NOx CONTROL	Combustion Engineering
5. TYPE OF PARTICULATE CONTROL	N/A
6. TYPE OF SOx CONTROL	Fuel quality
7. TYPE OF NOx CONTROL	Combustion control
8. CURRENT LEVEL OF PARTICULATES	0.00753 lb/MMBtu (Natural Gas EPA publication AP 42)
9. CURRENT LEVEL OF SOx	0.0006 lb/MMBtu (Natural Gas EPA publication AP 42)
10. CURRENT LEVEL OF NOx	0.115 lb/MMBtu (CEMS)
11. PEAK MW LOAD OF PART. SYSTEM	No limitation on unit
12. PEAK MW LOAD OF SOx SYSTEM	No limitation on unit
13. PEAK MW LOAD OF NOx SYSTEM	No limitation on unit
14. APPLICABLE WATER POLLUTION REG	30 TAC §§ 285, 305
15. APPLICABLE WASTE DISPOSAL REG	30 TAC § 335
16. MANUF. OF WASTE WATER SYSTEM	Various
17. TYPE OF WASTE WATER SYSTEM	Irrigation of crops
18. MANUF OF WASTE DISPOSAL SYSTEM	Various
19. TYPE OF WASTE DISPOSAL SYSTEM	Recycle/Storage/Disposal
20. PEAK MW LOAD OF WASTE WATER SYS	No limitation on unit
21. PEAK MW LOAD OF WASTE DISP SYS	No limitation on unit
AUXILIARIES & COOLING WATER SYSTEM	
1. DESCRIPTION OF COOLING WATER SYS	Treated sewage effluent; cooling tower
2. MANUFACTURER OF COOLING WATER SYS	Cooling tower: Fluor
3. PEAK MW LOAD OF COOLING WATER SYS	No limitation on unit
4. DESCRIPTION OF BOILER FEEDPUMP SYS	Motor driven, variable speed, multistage, barrel type centrifugal pump
5. MANUFACTURER OF BOILER FEEDPUMP SYS	Worthington
6. PEAK MW LOAD OF BOILER FEEDPUMP SYS	No limitation on unit
7. DESCRIPTION OF COMBUSTION AIR SYS	Constant speed centrifugal forced draft fans, vane control
8. MANUFACTURER OF COMBUSTION AIR SYS	Westinghouse Sturtevant
9. PEAK MW LOAD OF COMBUSTION AIR SYS	No limitation on unit
10. DESCRIPTION OF AIR PREHEATER	Regenerative corrugated plate Ljungstrom
11. MANUFACTURER OF AIR PREHEATER	Air Preheater Corp. /Combustion Engineering Air Preheater
12. PEAK MW LOAD OF AIR PREHEATER	No limitation on unit
13. DESCRIPTION OF FUEL FEED SYS	N/A
14. MANUFACTURER OF FUEL FEED SYS	N/A
15. PEAK MW LOAD OF FUEL FEED SYS	N/A

Southwestern Public Service Company

Nichols Unit 3 Generating Unit Characteristics

CATEGORY	DESCRIPTION / RESPONSE
TURBINE-GENERATOR	
1. TURBINE MANUFACTURER	General Electric
2. TURBINE DESCRIPTION	Tandem compound double flow
3. INLET TEMPERATURES / PRESSURES	Throttle - 1000ºF / 1800 psig, Hot Reheat - 1000ºF
4. NUMBER OF FEEDWATER HEATERS	Five closed heaters, one open deaerating heater
5. LAST ROW OF BLADING SIZE / RPMs	26" / 3600 RPM
6. GENERATOR MANUFACTURER	General Electric
7. NAMEPLATE RATINGS	22.0 kV, 275 MVA, 3600 RPM, 0.90 power factor
8. NOMINAL GROSS MW OUTPUT	256,000 MW
9. TYPE OF COOLING	Hydrogen / Water Cooled Clips
10. TYPE OF EXCITATION	Rotating
BOILER	
1. DESCRIPTION OF PRIMARY FUEL	Natural Gas
2. DESCRIPTION OF ALTERNATE FUEL	none
3. MW DERATING - ALTER FUEL USE	N/A
4. STARTUP FUEL	Natural Gas
5. BOILER MANUFACTURER	Combustion Engineering
6. TYPE OF BOILER	Single furnace - pressurized, natural circulation
7. TYPE OF FUEL FIRING	Tangential firing
8. DESCRIPTION OF BURNER LAYOUT	Four burner levels, primary & secondary air nozzles adjacent to each burner
POLLUTION CONTROL	
1. APPLICABLE AIR POLLUTION REG	30 TAC §§ 101-122; 40 C.F.R. § 75; TX EGF Permit 45589 (NOx budget); TX Title V O-13; 40 C.F.R. § 97; 40 C.F.R. § 98
2. MANUFACTURER OF PART. CONTROL	N/A
3. MANUFACTURER OF SOx CONTROL	N/A
4. MANUFACTURER OF NOx CONTROL	Combustion Engineering
5. TYPE OF PARTICULATE CONTROL	N/A
6. TYPE OF SOx CONTROL	Fuel quality
7. TYPE OF NOx CONTROL	Combustion control
8. CURRENT LEVEL OF PARTICULATES	0.00753 lb/MMBtu (Natural Gas EPA publication AP 42)
9. CURRENT LEVEL OF SOx	0.0006 lb/MMBtu (Natural Gas EPA publication AP 42)
10. CURRENT LEVEL OF NOx	0.150 lb/MMBtu (CEMS)
11. PEAK MW LOAD OF PART. SYSTEM	No limitation on unit
12. PEAK MW LOAD OF SOx SYSTEM	No limitation on unit
13. PEAK MW LOAD OF NOx SYSTEM	No limitation on unit
14. APPLICABLE WATER POLLUTION REG	30 TAC §§ 285, 305
15. APPLICABLE WASTE DISPOSAL REG	30 TAC § 335
16. MANUF. OF WASTE WATER SYSTEM	Various
17. TYPE OF WASTE WATER SYSTEM	Irrigation of crops
18. MANUF OF WASTE DISPOSAL SYSTEM	Various
19. TYPE OF WASTE DISPOSAL SYSTEM	Recycle/Storage/Disposal
20. PEAK MW LOAD OF WASTE WATER SYS	No limitation on unit
21. PEAK MW LOAD OF WASTE DISP SYS	No limitation on unit
AUXILIARIES & COOLING WATER SYSTEM	
1. DESCRIPTION OF COOLING WATER SYS	Treated sewage effluent; cooling tower
2. MANUFACTURER OF COOLING WATER SYS	Cooling tower: Fluor design rebuilt in FRP in 2019 by CT Depot
3. PEAK MW LOAD OF COOLING WATER SYS	No limitation on unit
4. DESCRIPTION OF BOILER FEEDPUMP SYS	Motor driven, variable speed, multistage, barrel type centrifugal pump
5. MANUFACTURER OF BOILER FEEDPUMP SYS	Worthington
6. PEAK MW LOAD OF BOILER FEEDPUMP SYS	No limitation on unit
7. DESCRIPTION OF COMBUSTION AIR SYS	Variable speed centrifugal forced draft fans
8. MANUFACTURER OF COMBUSTION AIR SYS	Green
9. PEAK MW LOAD OF COMBUSTION AIR SYS	No limitation on unit
10. DESCRIPTION OF AIR PREHEATER	Regenerative corrugated plate Ljungstrom
11. MANUFACTURER OF AIR PREHEATER	Combustion Engineering Air Preheater
12. PEAK MW LOAD OF AIR PREHEATER	No limitation on unit
13. DESCRIPTION OF FUEL FEED SYS	N/A
14. MANUFACTURER OF FUEL FEED SYS	N/A
15. PEAK MW LOAD OF FUEL FEED SYS	N/A

Southwestern Public Service Company

Quay County Generating Unit Characteristics

CATEGORY	DESCRIPTION / RESPONSE
TURBINE-GENERATOR	
1. TURBINE MANUFACTURER	Siemens/Westinghouse
2. TURBINE DESCRIPTION	W – 251G
3. INLET TEMPERATURES / PRESSURES	N/A
4. NUMBER OF FEEDWATER HEATERS	N/A
5. LAST ROW OF BLADING SIZE / RPMs	3600 RPM
6. GENERATOR MANUFACTURER	Siemens/Westinghouse
7. NAMEPLATE RATINGS	13.8 KV, 39.22 MVA, 0.9 PF
8. NOMINAL GROSS MW OUTPUT	17,000 MW Summer / 23,000 MW Winter
9. TYPE OF COOLING	Open Air Cooled
10. TYPE OF EXCITATION	Brushless
BOILER	
1. DESCRIPTION OF PRIMARY FUEL	N/A
2. DESCRIPTION OF ALTERNATE FUEL	N/A
3. MW DERATING - ALTER FUEL USE	N/A
4. STARTUP FUEL	N/A
5. BOILER MANUFACTURER	N/A
6. TYPE OF BOILER	N/A
7. TYPE OF FUEL FIRING	N/A
8. DESCRIPTION OF BURNER LAYOUT	N/A
POLLUTION CONTROL	
1. APPLICABLE AIR POLLUTION REG	20.2.1 NMAC – 20.2.350 NMAC , N.M. Air Permit 4561-R1, Title V Permit P265
2. MANUFACTURER OF PART. CONTROL	N/A
3. MANUFACTURER OF SOx CONTROL	N/A
4. MANUFACTURER OF NOx CONTROL	N/A
5. TYPE OF PARTICULATE CONTROL	N/A
6. TYPE OF SOx CONTROL	N/A
7. TYPE OF NOx CONTROL	N/A
8. CURRENT LEVEL OF PARTICULATES	< 4.4 PPH (NSR Permit No. 4561)
9. CURRENT LEVEL OF SOx	< 0.0015% (NSR Permit No. 4561)
10. CURRENT LEVEL OF NOx	< 521 PPH (NSR Permit No. 4561)
11. PEAK MW LOAD OF PART. SYSTEM	N/A
12. PEAK MW LOAD OF SOx SYSTEM	N/A
13. PEAK MW LOAD OF NOx SYSTEM	N/A
14. APPLICABLE WATER POLLUTION REG	N/A
15. APPLICABLE WASTE DISPOSAL REG	N/A
16. MANUF. OF WASTE WATER SYSTEM	N/A
17. TYPE OF WASTE WATER SYSTEM	N/A
18. MANUF OF WASTE DISPOSAL SYSTEM	N/A
19. TYPE OF WASTE DISPOSAL SYSTEM	N/A
20. PEAK MW LOAD OF WASTE WATER SYS	N/A
21. PEAK MW LOAD OF WASTE DISP SYS	N/A
AUXILIARIES & COOLING WATER SYSTEM	
1. DESCRIPTION OF COOLING WATER SYS	N/A
2. MANUFACTURER OF COOLING WATER SYS	N/A
3. PEAK MW LOAD OF COOLING WATER SYS	N/A
4. DESCRIPTION OF BOILER FEEDPUMP SYS	N/A
5. MANUFACTURER OF BOILER FEEDPUMP SYS	N/A
6. PEAK MW LOAD OF BOILER FEEDPUMP SYS	N/A
7. DESCRIPTION OF COMBUSTION AIR SYS	N/A
8. MANUFACTURER OF COMBUSTION AIR SYS	N/A
9. PEAK MW LOAD OF COMBUSTION AIR SYS	N/A
10. DESCRIPTION OF AIR PREHEATER	N/A
11. MANUFACTURER OF AIR PREHEATER	N/A
12. PEAK MW LOAD OF AIR PREHEATER	N/A
13. DESCRIPTION OF FUEL FEED SYS	N/A
14. MANUFACTURER OF FUEL FEED SYS	N/A
15. PEAK MW LOAD OF FUEL FEED SYS	N/A

Southwestern Public Service Company

Tolk Station Unit 1 Generating Unit Characteristics

CATEGORY	DESCRIPTION / RESPONSE
TURBINE-GENERATOR	
1. TURBINE MANUFACTURER	Westinghouse
2. TURBINE DESCRIPTION	Tandem compound quadruple flow
3. INLET TEMPERATURES / PRESSURES	Throttle - 1000ºF / 2400 psig; Hot Reheat - 1000ºF
4. NUMBER OF FEEDWATER HEATERS	Six closed heaters, one open deaerating heater
5. LAST ROW OF BLADING SIZE / RPMs	29.25" / 3600 RPM
6. GENERATOR MANUFACTURER	Westinghouse
7. NAMEPLATE RATINGS	24.0 kV, 631 MVA, 3600 RPM, 0.90 power factor
8. NOMINAL GROSS MW OUTPUT	555,000 MW
9. TYPE OF COOLING	Hydrogen
10. TYPE OF EXCITATION	Rotating brushless
BOILER	
1. DESCRIPTION OF PRIMARY FUEL	Coal, low sulfur, sub-bituminous
2. DESCRIPTION OF ALTERNATE FUEL	none
3. MW DERATING - ALTER FUEL USE	N/A
4. STARTUP FUEL	Natural gas
5. BOILER MANUFACTURER	Combustion Engineering
6. TYPE OF BOILER	Single furnace, controlled circulation, balanced draft
7. TYPE OF FUEL FIRING	Tangential firing
8. DESCRIPTION OF BURNER LAYOUT	Six burner levels, aux. & sec. air above and below each burner
POLLUTION CONTROL	
1. APPLICABLE AIR POLLUTION REG	40 C.F.R. § 60 subpart D; 30 TAC §§ 101-122; Texas Air Permit 6029; 40 C.F.R. § 75; TX Title V O-12; 40 C.F.R. § 97; PSD Permit PSDTX50M2; TX Std Pmt 113913; 40 C.F.R. § 98; 40 C.F.R. § 63 Subpart UUUUU
2. MANUFACTURER OF PART. CONTROL	Ecolaire (CAE)
3. MANUFACTURER OF SOx CONTROL	N/A
4. MANUFACTURER OF NOx CONTROL	Combustion Engineering
5. TYPE OF PARTICULATE CONTROL	Reverse air baghouse
6. TYPE OF SOx CONTROL	Fuel quality
7. TYPE OF NOx CONTROL	Combustion control – LNB / SOFA
8. CURRENT LEVEL OF PARTICULATES	0.0067 lb/MMBtu (Stack Test)
9. CURRENT LEVEL OF SOx	0.442 lb/MMBtu (CEMS)
10. CURRENT LEVEL OF NOx	0.152 lb/MMBtu (CEMS)
11. PEAK MW LOAD OF PART. SYSTEM	No limitation on unit
12. PEAK MW LOAD OF SOx SYSTEM	No limitation on unit
13. PEAK MW LOAD OF NOx SYSTEM	No limitation on unit
14. APPLICABLE WATER POLLUTION REG	30 TAC §§ 285, 305
15. APPLICABLE WASTE DISPOSAL REG	30 TAC § 335
16. MANUF. OF WASTE WATER SYSTEM	Various
17. TYPE OF WASTE WATER SYSTEM	Evaporation ponds
18. MANUF OF WASTE DISPOSAL SYSTEM	Various
19. TYPE OF WASTE DISPOSAL SYSTEM	Recycle (Sales)/Storage/Disposal
20. PEAK MW LOAD OF WASTE WATER SYS	No limitation on unit
21. PEAK MW LOAD OF WASTE DISP SYS	No limitation on unit
AUXILIARIES & COOLING WATER SYSTEM	
1. DESCRIPTION OF COOLING WATER SYS	Well water makeup; forced draft cooling tower
2. MANUFACTURER OF COOLING WATER SYS	Cooling tower: SPS
3. PEAK MW LOAD OF COOLING WATER SYS	No limitation on unit
4. DESCRIPTION OF BOILER FEEDPUMP SYS	100% capacity steam turbine driven variable speed multistage barrel-type centrifugal pump. 50% capacity motor driven boiler feed pump.
5. MANUFACTURER OF BOILER FEEDPUMP SYS	Westinghouse turbine / Worthington feedpump
6. PEAK MW LOAD OF BOILER FEEDPUMP SYS	No limitation on unit
7. DESCRIPTION OF COMBUSTION AIR SYS	Variable speed centrifugal FD and ID fans
8. MANUFACTURER OF COMBUSTION AIR SYS	Westinghouse Sturtevant
9. PEAK MW LOAD OF COMBUSTION AIR SYS	No limitation on unit
10. DESCRIPTION OF AIR PREHEATER	Two vertical regenerative Ljungstrom wheel
11. MANUFACTURER OF AIR PREHEATER	C-E Air preheater
12. PEAK MW LOAD OF AIR PREHEATER	No limitation on unit
13. DESCRIPTION OF FUEL FEED SYS	Gravimetric belt feeders
14. MANUFACTURER OF FUEL FEED SYS	Stock Equipment Company
15. PEAK MW LOAD OF FUEL FEED SYS	No limitation on unit

Southwestern Public Service Company

Tolk Station Unit 2 Generating Unit Characteristics

CATEGORY	DESCRIPTION / RESPONSE
TURBINE-GENERATOR	
1. TURBINE MANUFACTURER	Westinghouse
2. TURBINE DESCRIPTION	Tandem compound quadruple flow
3. INLET TEMPERATURES / PRESSURES	Throttle - 1000ºF / 2400 psig; Hot Reheat - 1000ºF
4. NUMBER OF FEEDWATER HEATERS	Six closed heaters, one open deaerating heater
5. LAST ROW OF BLADING SIZE / RPMs	29.25“ / 3600 RPM
6. GENERATOR MANUFACTURER	Westinghouse
7. NAMEPLATE RATINGS	24.0 kV, 631 MVA, 3600 rpm, 0.90 power factor
8. NOMINAL GROSS MW OUTPUT	556,000 MW
9. TYPE OF COOLING	Hydrogen
10. TYPE OF EXCITATION	Rotating brushless
BOILER	
1. DESCRIPTION OF PRIMARY FUEL	Coal, low sulfur, sub-bituminous
2. DESCRIPTION OF ALTERNATE FUEL	none
3. MW DERATING - ALTER FUEL USE	N/A
4. STARTUP FUEL	Natural gas
5. BOILER MANUFACTURER	Combustion Engineering
6. TYPE OF BOILER	Single furnace, balanced draft
7. TYPE OF FUEL FIRING	Tangential firing
8. DESCRIPTION OF BURNER LAYOUT	Six burner levels, aux. & sec. air above and below each burner
POLLUTION CONTROL	
1. APPLICABLE AIR POLLUTION REG	40 C.F.R. § 60 subpart D; 30 TAC §§ 101-122; Texas Air Permit 6030; 40 C.F.R. § 75; TX Title V O-12; 40 C.F.R. § 97; PSD Permit PSDTX50M2; TX Std Pmt 113913; 40 C.F.R. § 98; 40 C.F.R. § 63 Subpart UUUUU
2. MANUFACTURER OF PART. CONTROL	Utility Engineering Corp.
3. MANUFACTURER OF SOx CONTROL	N/A
4. MANUFACTURER OF NOx CONTROL	Combustion Engineering
5. TYPE OF PARTICULATE CONTROL	Reverse air baghouse
6. TYPE OF SOx CONTROL	Fuel quality
7. TYPE OF NOx CONTROL	Combustion control – LNB / SOFA
8. CURRENT LEVEL OF PARTICULATES	0.011 lb/MMBtu (Stack Test)
9. CURRENT LEVEL OF SOx	0.429 lb/MMBtu (CEMS)
10. CURRENT LEVEL OF NOx	0.163 lb/MMBtu (CEMS)
11. PEAK MW LOAD OF PART. SYSTEM	No limitation on unit
12. PEAK MW LOAD OF SOx SYSTEM	No limitation on unit
13. PEAK MW LOAD OF NOx SYSTEM	No limitation on unit
14. APPLICABLE WATER POLLUTION REG	30 TAC §§ 285, 305
15. APPLICABLE WASTE DISPOSAL REG	30 TAC § 335
16. MANUF. OF WASTE WATER SYSTEM	Various
17. TYPE OF WASTE WATER SYSTEM	Evaporation ponds
18. MANUF OF WASTE DISPOSAL SYSTEM	Various
19. TYPE OF WASTE DISPOSAL SYSTEM	Recycle (Sales)/Storage/Disposal
20. PEAK MW LOAD OF WASTE WATER SYS	No limitation on unit
21. PEAK MW LOAD OF WASTE DISP SYS	No limitation on unit
AUXILIARIES & COOLING WATER SYSTEM	
1. DESCRIPTION OF COOLING WATER SYS	Well water makeup; forced draft cooling tower
2. MANUFACTURER OF COOLING WATER SYS	Cooling tower: SPS
3. PEAK MW LOAD OF COOLING WATER SYS	No limitation on unit
4. DESCRIPTION OF BOILER FEEDPUMP SYS	100% capacity steam turbine driven variable speed multistage barrel-type centrifugal pump. 50% capacity motor driven boiler feed pump.
5. MANUFACTURER OF BOILER FEEDPUMP SYS	Westinghouse turbine / Worthington feedpump
6. PEAK MW LOAD OF BOILER FEEDPUMP SYS	No limitation on unit
7. DESCRIPTION OF COMBUSTION AIR SYS	Variable speed centrifugal FD and ID fans
8. MANUFACTURER OF COMBUSTION AIR SYS	Westinghouse Sturtevant
9. PEAK MW LOAD OF COMBUSTION AIR SYS	No limitation on unit
10. DESCRIPTION OF AIR PREHEATER	Two vertical regenerative Ljungstrom wheels
11. MANUFACTURER OF AIR PREHEATER	C-E Air preheater
12. PEAK MW LOAD OF AIR PREHEATER	No limitation on unit
13. DESCRIPTION OF FUEL FEED SYS	Gravimetric belt feeders
14. MANUFACTURER OF FUEL FEED SYS	Stock Equipment Company
15. PEAK MW LOAD OF FUEL FEED SYS	No limitation on unit

Southwestern Public Service Company

Plant X Unit 1 Generating Unit Characteristics

CATEGORY	DESCRIPTION / RESPONSE
TURBINE-GENERATOR	
1. TURBINE MANUFACTURER	General Electric
2. TURBINE DESCRIPTION	Non-reheat double flow
3. INLET TEMPERATURES / PRESSURES	900ºF / 850 psi
4. NUMBER OF FEEDWATER HEATERS	Four closed heaters, one open deaerating heater
5. LAST ROW OF BLADING SIZE / RPMs	unknown / 3600 RPM
6. GENERATOR MANUFACTURER	General Electric
7. NAMEPLATE RATINGS	13.8 kV, 60 MVA, 3600 RPM, 0.80 power factor
8. NOMINAL GROSS MW OUTPUT	43,000 MW
9. TYPE OF COOLING	Hydrogen
10. TYPE OF EXCITATION	Rotating
BOILER	
1. DESCRIPTION OF PRIMARY FUEL	Natural gas
2. DESCRIPTION OF ALTERNATE FUEL	N/A
3. MW DERATING - ALTER FUEL USE	N/A
4. STARTUP FUEL	Natural gas
5. BOILER MANUFACTURER	Combustion Engineering
6. TYPE OF BOILER	Single furnace, balanced draft, natural circulation
7. TYPE OF FUEL FIRING	Wall firing
8. DESCRIPTION OF BURNER LAYOUT	12 burners (three levels of four burners) on wall
POLLUTION CONTROL	
1. APPLICABLE AIR POLLUTION REG	30 TAC §§ 101-122; 40 C.F.R. § 75; TX EGF Permit 45592 (NOx budget); TX Title V Permit O-11; 40 C.F.R. § 97; 40 C.F.R. § 98
2. MANUFACTURER OF PART. CONTROL	N/A
3. MANUFACTURER OF SOx CONTROL	N/A
4. MANUFACTURER OF NOx CONTROL	Combustion Engineering
5. TYPE OF PARTICULATE CONTROL	N/A
6. TYPE OF SOx CONTROL	Fuel quality
7. TYPE OF NOx CONTROL	Combustion control
8. CURRENT LEVEL OF PARTICULATES	0.00753 lb/MMBtu (Natural Gas EPA publication AP 42)
9. CURRENT LEVEL OF SOx	0.0006 lb/MMBtu (Natural Gas EPA publication AP 42)
10. CURRENT LEVEL OF NOx	0.382 lb/MMBtu (CEMS)
11. PEAK MW LOAD OF PART. SYSTEM	No limitation on unit
12. PEAK MW LOAD OF SOx SYSTEM	No limitation on unit
13. PEAK MW LOAD OF NOx SYSTEM	No limitation on unit
14. APPLICABLE WATER POLLUTION REG	30 TAC §§ 285, 305
15. APPLICABLE WASTE DISPOSAL REG	30 TAC § 335
16. MANUF. OF WASTE WATER SYSTEM	Various
17. TYPE OF WASTE WATER SYSTEM	Irrigation of crops
18. MANUF OF WASTE DISPOSAL SYSTEM	Various
19. TYPE OF WASTE DISPOSAL SYSTEM	Recycle/Storage/Disposal
20. PEAK MW LOAD OF WASTE WATER SYS	No limitation on unit
21. PEAK MW LOAD OF WASTE DISP SYS	No limitation on unit
AUXILIARIES & COOLING WATER SYSTEM	
1. DESCRIPTION OF COOLING WATER SYS	Well water makeup; forced draft cooling tower
2. MANUFACTURER OF COOLING WATER SYS	Cooling tower: Utility Services; common for Units 1, 2, and 3
3. PEAK MW LOAD OF COOLING WATER SYS	No limitation on unit
4. DESCRIPTION OF BOILER FEEDPUMP SYS	Motor driven, variable speed, multistage, barrel type centrifugal pump
5. MANUFACTURER OF BOILER FEEDPUMP SYS	Worthington
6. PEAK MW LOAD OF BOILER FEEDPUMP SYS	No limitation on unit
7. DESCRIPTION OF COMBUSTION AIR SYS	Constant speed centrifugal forced and induced draft fans, vane control
8. MANUFACTURER OF COMBUSTION AIR SYS	Sturtevant
9. PEAK MW LOAD OF COMBUSTION AIR SYS	No limitation on unit
10. DESCRIPTION OF AIR PREHEATER	Regenerative corrugated plate Ljungstrom
11. MANUFACTURER OF AIR PREHEATER	Combustion Engineering Air Preheater
12. PEAK MW LOAD OF AIR PREHEATER	No limitation on unit
13. DESCRIPTION OF FUEL FEED SYS	N/A
14. MANUFACTURER OF FUEL FEED SYS	N/A
15. PEAK MW LOAD OF FUEL FEED SYS	N/A

Southwestern Public Service Company

Plant X Unit 2 Generating Unit Characteristics

CATEGORY	DESCRIPTION / RESPONSE
TURBINE-GENERATOR	
1. TURBINE MANUFACTURER	General Electric
2. TURBINE DESCRIPTION	Non reheat double flow
3. INLET TEMPERATURES / PRESSURES	950^{O}F / 1250 psi
4. NUMBER OF FEEDWATER HEATERS	4 closed heaters, 1 open deaerating heater
5. LAST ROW OF BLADING SIZE / RPMs	23" / 3600 RPM
6. GENERATOR MANUFACTURER	General Electric
7. NAMEPLATE RATINGS	13.8 kV, 122.5 MVA, 3600 RPM, 0.80 power factor
8. NOMINAL GROSS MW OUTPUT	96,000 MW
9. TYPE OF COOLING	Hydrogen
10. TYPE OF EXCITATION	Rotating
BOILER	
1. DESCRIPTION OF PRIMARY FUEL	Natural gas
2. DESCRIPTION OF ALTERNATE FUEL	No. 2 fuel oil
3. MW DERATING - ALTER FUEL USE	none
4. STARTUP FUEL	Natural gas
5. BOILER MANUFACTURER	Combustion Engineering
6. TYPE OF BOILER	Single furnace, balanced draft, natural circulation
7. TYPE OF FUEL FIRING	Tangential firing
8. DESCRIPTION OF BURNER LAYOUT	Four burner levels, primary & secondary air nozzles adjacent to each burner
POLLUTION CONTROL	
1. APPLICABLE AIR POLLUTION REG	30 TAC §§ 101-122; 40 C.F.R. § 75; TX EGF Permit 45592 (NOx budget); TX Title V Permit O-11; 40 C.F.R. § 97; 40 C.F.R. § 98
2. MANUFACTURER OF PART. CONTROL	N/A
3. MANUFACTURER OF SOx CONTROL	N/A
4. MANUFACTURER OF NOx CONTROL	Combustion Engineering
5. TYPE OF PARTICULATE CONTROL	N/A
6. TYPE OF SOx CONTROL	Fuel quality
7. TYPE OF NOx CONTROL	Combustion control
8. CURRENT LEVEL OF PARTICULATES	0.00753 lb/MMBtu (Natural Gas EPA publication AP 42)
9. CURRENT LEVEL OF SOx	0.0006 lb/MMBtu (Natural Gas EPA publication AP 42)
10. CURRENT LEVEL OF NOx	0.064 lb/MMBtu (CEMS)
11. PEAK MW LOAD OF PART. SYSTEM	No limitation on unit
12. PEAK MW LOAD OF SOx SYSTEM	No limitation on unit
13. PEAK MW LOAD OF NOx SYSTEM	No limitation on unit
14. APPLICABLE WATER POLLUTION REG	30 TAC §§ 285, 305
15. APPLICABLE WASTE DISPOSAL REG	30 TAC § 335
16. MANUF. OF WASTE WATER SYSTEM	Various
17. TYPE OF WASTE WATER SYSTEM	Irrigation of crops
18. MANUF OF WASTE DISPOSAL SYSTEM	Various
19. TYPE OF WASTE DISPOSAL SYSTEM	Recycle/Storage/Disposal
20. PEAK MW LOAD OF WASTE WATER SYS	No limitation on unit
21. PEAK MW LOAD OF WASTE DISP SYS	No limitation on unit
AUXILIARIES & COOLING WATER SYSTEM	
1. DESCRIPTION OF COOLING WATER SYS	Well water makeup; forced draft cooling tower
2. MANUFACTURER OF COOLING WATER SYS	Cooling tower: Utility Services; common for Units 1, 2, and 3
3. PEAK MW LOAD OF COOLING WATER SYS	No limitation on unit
4. DESCRIPTION OF BOILER FEEDPUMP SYS	Motor driven, variable speed, multistage, barrel type centrifugal pump
5. MANUFACTURER OF BOILER FEEDPUMP SYS	Worthington
6. PEAK MW LOAD OF BOILER FEEDPUMP SYS	No limitation on unit
7. DESCRIPTION OF COMBUSTION AIR SYS	Constant speed centrifugal forced and induced draft fans, vane control
8. MANUFACTURER OF COMBUSTION AIR SYS	Sturtevant
9. PEAK MW LOAD OF COMBUSTION AIR SYS	No limitation on unit
10. DESCRIPTION OF AIR PREHEATER	Regenerative corrugated plate Ljungstrom
11. MANUFACTURER OF AIR PREHEATER	Combustion Engineering Air Preheater
12. PEAK MW LOAD OF AIR PREHEATER	No limitation on unit
13. DESCRIPTION OF FUEL FEED SYS	N/A
14. MANUFACTURER OF FUEL FEED SYS	N/A
15. PEAK MW LOAD OF FUEL FEED SYS	N/A

Southwestern Public Service Company

Plant X Unit 3 Generating Unit Characteristics

CATEGORY	DESCRIPTION / RESPONSE
TURBINE-GENERATOR	
1. TURBINE MANUFACTURER	General Electric
2. TURBINE DESCRIPTION	Tandem compound double flow
3. INLET TEMPERATURES / PRESSURES	Throttle - 1000ºF / 1450 psig, Hot Reheat - 1000ºF
4. NUMBER OF FEEDWATER HEATERS	Four closed heaters, one open deaerating heater
5. LAST ROW OF BLADING SIZE / RPMs	23" / 3600 RPM
6. GENERATOR MANUFACTURER	General Electric
7. NAMEPLATE RATINGS	13.8 kV, 122.5 MVA, 3600 RPM, 0.80 power factor
8. NOMINAL GROSS MW OUTPUT	98,000 MW
9. TYPE OF COOLING	Hydrogen
10. TYPE OF EXCITATION	Rotating
BOILER	
1. DESCRIPTION OF PRIMARY FUEL	Natural gas
2. DESCRIPTION OF ALTERNATE FUEL	N/A
3. MW DERATING - ALTER FUEL USE	N/A
4. STARTUP FUEL	Natural gas
5. BOILER MANUFACTURER	Combustion Engineering
6. TYPE OF BOILER	Single furnace - pressurized, natural circulation
7. TYPE OF FUEL FIRING	Tangentially fired
8. DESCRIPTION OF BURNER LAYOUT	Four burner levels, primary & secondary air nozzles adjacent to each burner
POLLUTION CONTROL	
1. APPLICABLE AIR POLLUTION REG	30 TAC §§ 101-122; 40 C.F.R. § 75; TX EGF Permit 45592 (NOx budget); TX Title V Permit O-11; 40 C.F.R. § 97; 40 C.F.R. § 98
2. MANUFACTURER OF PART. CONTROL	N/A
3. MANUFACTURER OF SOx CONTROL	N/A
4. MANUFACTURER OF NOx CONTROL	Combustion Engineering
5. TYPE OF PARTICULATE CONTROL	N/A
6. TYPE OF SOx CONTROL	Fuel quality
7. TYPE OF NOx CONTROL	Combustion control
8. CURRENT LEVEL OF PARTICULATES	0.00753 lb/MMBtu (Natural Gas EPA publication AP 42)
9. CURRENT LEVEL OF SOx	0.0006 lb/MMBtu (Natural Gas EPA publication AP 42)
10. CURRENT LEVEL OF NOx	0.127 lb/MMBtu (CEMS)
11. PEAK MW LOAD OF PART. SYSTEM	No limitation on unit
12. PEAK MW LOAD OF SOx SYSTEM	No limitation on unit
13. PEAK MW LOAD OF NOx SYSTEM	No limitation on unit
14. APPLICABLE WATER POLLUTION REG	30 TAC §§ 285, 305
15. APPLICABLE WASTE DISPOSAL REG	30 TAC § 335
16. MANUF. OF WASTE WATER SYSTEM	Various
17. TYPE OF WASTE WATER SYSTEM	Irrigation of crops
18. MANUF OF WASTE DISPOSAL SYSTEM	Various
19. TYPE OF WASTE DISPOSAL SYSTEM	Recycle/Storage/Disposal
20. PEAK MW LOAD OF WASTE WATER SYS	No limitation on unit
21. PEAK MW LOAD OF WASTE DISP SYS	No limitation on unit
AUXILIARIES & COOLING WATER SYSTEM	
1. DESCRIPTION OF COOLING WATER SYS	Well water makeup; forced draft cooling tower
2. MANUFACTURER OF COOLING WATER SYS	Cooling tower: Utility Services; common for Units 1, 2, and 3
3. PEAK MW LOAD OF COOLING WATER SYS	N/A
4. DESCRIPTION OF BOILER FEEDPUMP SYS	Motor driven, variable speed, multistage, barrel type centrifugal pump
5. MANUFACTURER OF BOILER FEEDPUMP SYS	Worthington
6. PEAK MW LOAD OF BOILER FEEDPUMP SYS	N/A
7. DESCRIPTION OF COMBUSTION AIR SYS	Constant speed centrifugal forced draft fans, vane control
8. MANUFACTURER OF COMBUSTION AIR SYS	Sturtevant
9. PEAK MW LOAD OF COMBUSTION AIR SYS	N/A
10. DESCRIPTION OF AIR PREHEATER	Regenerative corrugated plate Ljungstrom
11. MANUFACTURER OF AIR PREHEATER	Combustion Engineering Air Preheater
12. PEAK MW LOAD OF AIR PREHEATER	N/A
13. DESCRIPTION OF FUEL FEED SYS	N/A
14. MANUFACTURER OF FUEL FEED SYS	N/A
15. PEAK MW LOAD OF FUEL FEED SYS	N/A

Southwestern Public Service Company

Plant X Unit 4 Generating Unit Characteristics

CATEGORY	DESCRIPTION / RESPONSE
TURBINE-GENERATOR	
1. TURBINE MANUFACTURER	General Electric
2. TURBINE DESCRIPTION	Tandem compound double flow
3. INLET TEMPERATURES / PRESSURES	Throttle - 1000ºF / 1800 psig, Hot Reheat - 1000ºF
4. NUMBER OF FEEDWATER HEATERS	Five closed heaters, one open deaerating heater
5. LAST ROW OF BLADING SIZE / RPMs	26" / 3600 RPM
6. GENERATOR MANUFACTURER	General Electric
7. NAMEPLATE RATINGS	20.0 kV, 224 MVA, 3600 RPM, 0.85 power factor
8. NOMINAL GROSS MW OUTPUT	200,000 MW
9. TYPE OF COOLING	Hydrogen
10. TYPE OF EXCITATION	Main exciter - static; spare - rotating
BOILER	
1. DESCRIPTION OF PRIMARY FUEL	Natural gas
2. DESCRIPTION OF ALTERNATE FUEL	No. 2 fuel oil
3. MW DERATING - ALTER FUEL USE	none
4. STARTUP FUEL	Natural gas
5. BOILER MANUFACTURER	Combustion Engineering
6. TYPE OF BOILER	Single furnace - pressurized, natural circulation
7. TYPE OF FUEL FIRING	Tangential firing
8. DESCRIPTION OF BURNER LAYOUT	Four burner levels, primary & secondary air nozzles adjacent to each burner
POLLUTION CONTROL	
1. APPLICABLE AIR POLLUTION REG	30 TAC §§ 101-122; 40 C.F.R. § 75; TX EGF Permit 45592 (NOx budget); TX Title V Permit O-11; 40 C.F.R. § 97; 40 C.F.R. § 98
2. MANUFACTURER OF PART. CONTROL	N/A
3. MANUFACTURER OF SOx CONTROL	N/A
4. MANUFACTURER OF NOx CONTROL	Combustion Engineering
5. TYPE OF PARTICULATE CONTROL	N/A
6. TYPE OF SOx CONTROL	Fuel quality
7. TYPE OF NOx CONTROL	Combustion control
8. CURRENT LEVEL OF PARTICULATES	0.00753 lb/MMBtu (Natural Gas EPA publication AP 42)
9. CURRENT LEVEL OF SOx	0.0006 lb/MMBtu (Natural Gas EPA publication AP 42)
10. CURRENT LEVEL OF NOx	0.133 lb/MMBtu (CEMS)
11. PEAK MW LOAD OF PART. SYSTEM	No limitation on unit
12. PEAK MW LOAD OF SOx SYSTEM	No limitation on unit
13. PEAK MW LOAD OF NOx SYSTEM	No limitation on unit
14. APPLICABLE WATER POLLUTION REG	30 TAC §§ 285, 305
15. APPLICABLE WASTE DISPOSAL REG	30 TAC § 335
16. MANUF. OF WASTE WATER SYSTEM	Various
17. TYPE OF WASTE WATER SYSTEM	Irrigation of crops
18. MANUF OF WASTE DISPOSAL SYSTEM	Various
19. TYPE OF WASTE DISPOSAL SYSTEM	Recycle/Storage/Disposal
20. PEAK MW LOAD OF WASTE WATER SYS	No limitation on unit
21. PEAK MW LOAD OF WASTE DISP SYS	No limitation on unit
AUXILIARIES & COOLING WATER SYSTEM	
1. DESCRIPTION OF COOLING WATER SYS	Well water makeup; forced draft cooling tower
2. MANUFACTURER OF COOLING WATER SYS	Cooling tower: Fluor
3. PEAK MW LOAD OF COOLING WATER SYS	N/A
4. DESCRIPTION OF BOILER FEEDPUMP SYS	Motor driven, variable speed, multistage, barrel type centrifugal pump
5. MANUFACTURER OF BOILER FEEDPUMP SYS	Worthington
6. PEAK MW LOAD OF BOILER FEEDPUMP SYS	N/A
7. DESCRIPTION OF COMBUSTION AIR SYS	Constant speed centrifugal forced draft fans, vane control
8. MANUFACTURER OF COMBUSTION AIR SYS	Sturtevant
9. PEAK MW LOAD OF COMBUSTION AIR SYS	N/A
10. DESCRIPTION OF AIR PREHEATER	Regenerative corrugated plate Ljungstrom
11. MANUFACTURER OF AIR PREHEATER	Combustion Engineering Air Preheater
12. PEAK MW LOAD OF AIR PREHEATER	N/A
13. DESCRIPTION OF FUEL FEED SYS	N/A
14. MANUFACTURER OF FUEL FEED SYS	N/A
15. PEAK MW LOAD OF FUEL FEED SYS	N/A

Southwestern Public Service Company

Hale Wind

CATEGORY	DESCRIPTION / RESPONSE
GENERATOR	
1. GENERATOR MANUFACTURER	Vestus
2. 2MW	23 - V110 units
3. 2MW	216 - V116 units
4. TOTAL NUMBER OF UNITS	239 Wind Turbine Units
5. HEIGHT FOR V110	23 V110 @ 80 Meters
6. HEIGHT FOR V116	166 V116 @ 94 Meters/50 V116 @ 80 Meters
7. BLADE SIZE	V110 equals 110 meter rotor diameter
	V116 equals 116 meter rotor diameter
8. COLECTOR VOLTAGE	34 KV
9. TRANSMISSION VOLTAGE	230 KV
10. TOTAL GENERATION	478 MW

Note: SPS identified solar facilities in H-12.3a, however they are not listed due to the unique characteristics of solar facilities.

Southwestern Public Service Company

Generating Unit Efficiency and Control Systems

HARRINGTON UNIT #1

CATEGORY	DESCRIPTION / RESPONSE
INITIAL DESIGN EFFICIENCIES	
1. BOILER EFFICIENCY / STEAM CONDITIONS	1. MCR-84.89% / 1005F, 2620PSIG throttle, 1005F Hot Reheat Control - 85.20% / 1005F, 2430PSIG Throttle, 1005F Hot Reheat
2. TURBINE EFFICIENCY / STEAM CONDITIONS	2. HP-84.88%, IP-88.82%, LP-85.17% / 1000, 2400PSIG Throttle; 1000F HRH
3. GENERATOR EFFICIENCY / MW : MVAR	3. Mech loss-2.104 MW; Elec loss-3.968 MW/360MW:174MVAR
4. CONDENSER CONDITIONS / COOLING WATER	4. 2"mercury absolute / 80F cooling water inlet
5. GROSS HEAT RATE (1)	5. 9255 BTU/KWH
6. ORIGINAL STATION LOAD	6. 17.2 MW
7. NET HEAT RATE (2)	7. 9741 BTU/KWH
8. HEAT RATE CURVE / EQUATION	8. Gross MW/Gross HR: 85.8/10799; 171.6/9613; 257.4/9315; 343.2/9255; 356.6/9268

"PROMOD" TYPE DATA

1. STARTUP Btus	2930	MMBTU	
2. MINIMUM MW / TOTAL Btus	163.0	/	1781
3. MINIMUM MW / INCREMENTAL Btus PER MWh	163.0	/	9.728
4. 1ST STEP MW / INCREMENTAL Btus PER MWh	192.3	/	10.049
5. 2ND STEP MW / INCREMENTAL Btus PER MWh	221.7	/	10.370
6. 3RD STEP MW / INCREMENTAL Btus PER MWh	251.0	/	10.691
7. 4TH STEP MW / INCREMENTAL Btus PER MWh	280.3	/	11.012
8. 5TH STEP MW / INCREMENTAL Btus PER MWh	309.7	/	11.333
9. 6TH STEP MW / INCREMENTAL Btus PER MWh	339.0	/	11.654

THREE MOST RECENT HEAT RATE TESTS

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
1. TEST 1	NET MW OUTPUT	May-17	163	227	261	304	341
	NET HEAT RATE		10,715	10,540	10,554	10,666	10,713
	NET INCREMENTAL HEAT RATE		9,835	10,486	10,834	11,274	11,652

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6
2. TEST 2	NET MW OUTPUT	Sep-15	164	228	262	305	342	342
	NET HEAT RATE		10,906	10,726	10,658	10,714	10,822	10,810
	NET INCREMENTAL HEAT RATE		9,736	10,435	10,813	11,283	11,683	11,684

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	LEVEL 7
3. TEST 3	NET MW OUTPUT	Feb-11	152	180	208	239	270	305	340
	NET HEAT RATE		11,291	14,687	10,428	14,687	10,386	14,687	10,323
	NET INCREMENTAL HEAT RATE		8,274	8,676	9,077	9,524	9,971	10,473	10,976

CONTROL SYSTEMS

1. DESCRIPTION OF TURBINE CONTROL SYS.	1. Digital Electro-Hydraulic Control
2. MANUFACTURER OF TURBINE CONTROL SYS.	2. Woodward/Foxboro
3. DATE & COST OF INSTALLATION	3. 1999 - $944,955
4. DESCRIPTION OF BOILER CONTROL SYS.	4. Digital
5. MANUFACTURER OF BOILER CONTROL SYS.	5. Foxboro
6. DATE & COST OF INSTALLATION	6. 1999 - $1,367,475
7. TYPE OF FAN CONTROL SYSTEM	7. variable speed motor drive/digital control
8. TYPE OF FEEDWATER PUMP CONTROL SYS.	8. variable speed turbine/analog hydraulic control
9. TYPE OF SOOT BLOWER CONTROL SYS.	9. microprocessor based control system shared by all 3 units
10. NUMBER OF OPERATOR CONTROL ROOMS	10. 1
11. DESCRIPTION OF HEATRATE DEVIATION SYS.	11. calcs performed by PC interfaced with data acquisition system
12. TYPE OF SCRUBBER CONTROL SYS.	12. N/A

NOTES: (1) GROSS HEAT RATE = $\frac{\text{TOTAL FUEL CONSUMED (Including Start-up) (in MMBtu)}}{\text{GROSS ELECTRICAL OUTPUT}}$

(2) NET HEAT RATE = $\frac{\text{TOTAL FUEL CONSUMED (MMBtu)}}{\text{GROSS ELECTRICAL OUTPUT - STATION SERVICE}}$

Indicate whether Station Service includes consumption for Common Facilities.

Southwestern Public Service Company

Generating Unit Efficiency and Control Systems

HARRINGTON UNIT #2

CATEGORY	DESCRIPTION / RESPONSE
INITIAL DESIGN EFFICIENCIES	
1. BOILER EFFICIENCY / STEAM CONDITIONS	1. MCR-84.89% / 1005F, 2620PSIG throttle, 1005F Hot Reheat Control - 85.20% / 1005F, 2430PSIG Throttle, 1005F Hot Reheat
2. TURBINE EFFICIENCY / STEAM CONDITIONS	2. HP-84.88%, IP-88.82% ,LP-85.17% / 1000F,2400PSIG Throttle; 1000F HRH
3. GENERATOR EFFICIENCY / MW : MVAR	3. Mech loss-2.104 MW; Elec loss-3.968 MW/360MW:174MVAR
4. CONDENSER CONDITIONS / COOLING WATER	4. 2" mercury absolute/80F inlet
5. GROSS HEAT RATE (1)	5. 9255 BTU/KWH
6. ORIGINAL STATION LOAD	6. 17.2 MW
7. NET HEAT RATE (2)	7. 9741 BTU/KWH
8. HEAT RATE CURVE / EQUATION	8. Gross MW/Gross HR: 85.8/10799; 171.6/9613; 257.4/9315; 343.2/9255; 356.6/9268
"PROMOD" TYPE DATA	
1. STARTUP Btus	2930 MMBTU
2. MINIMUM MW / TOTAL Btus	163.0 / 1736
3. MINIMUM MW / INCREMENTAL Btus PER MWh	163.0 / 8.663
4. 1ST STEP MW / INCREMENTAL Btus PER MWh	192.3 / 9.146
5. 2ND STEP MW / INCREMENTAL Btus PER MWh	221.7 / 9.628
6. 3RD STEP MW / INCREMENTAL Btus PER MWh	251.0 / 10.110
7. 4TH STEP MW / INCREMENTAL Btus PER MWh	280.3 / 10.592
8. 5TH STEP MW / INCREMENTAL Btus PER MWh	309.7 / 11.075
9. 6TH STEP MW / INCREMENTAL Btus PER MWh	339.0 / 11.557

THREE MOST RECENT HEAT RATE TESTS

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
1. TEST 1	NET MW OUTPUT	Jun-18	159	207	252	294	335
	NET HEAT RATE		10,750	10,458	10,324	10,327	10,348
	NET INCREMENTAL HEAT RATE		9,231	9,645	10,026	10,386	10,739

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
2. TEST 2	NET MW OUTPUT	Mar-16	169	232	266	310	357
	NET HEAT RATE		10,474	10,041	10,143	10,193	10,233
	NET INCREMENTAL HEAT RATE		8,955	9,722	10,128	10,656	11,231

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6
3. TEST 3	NET MW OUTPUT	Jun-14	164	243	261	304	357	359
	NET HEAT RATE		10,652	10,167	10,225	10,289	10,479	10,395
	NET INCREMENTAL HEAT RATE		8,680	9,972	10,274	10,979	11,853	11,878

CONTROL SYSTEMS	
1. DESCRIPTION OF TURBINE CONTROL SYS.	1. Digital Electro-Hydraulic Control
2. MANUFACTURER OF TURBINE CONTROL SYS.	2. Woodward/Foxboro
3. DATE & COST OF INSTALLATION	3. 1998 - $921,907
4. DESCRIPTION OF BOILER CONTROL SYS.	4. Digital
5. MANUFACTURER OF BOILER CONTROL SYS.	5. Foxboro
6. DATE & COST OF INSTALLATION	6. 1998 - $1,620,772
7. TYPE OF FAN CONTROL SYSTEM	7. Variable speed fluid coupling/analog mechanical control
8. TYPE OF FEEDWATER PUMP CONTROL SYS.	8. Variable speed drive turbine/analog hydraulic control
9. TYPE OF SOOT BLOWER CONTROL SYS.	9. microprocessor based control system shared by all 3 units
10. NUMBER OF OPERATOR CONTROL ROOMS	10. 1
11. DESCRIPTION OF HEATRATE DEVIATION SYS.	11. calcs performed by PC interfaced with data acquisition system
12. TYPE OF SCRUBBER CONTROL SYS.	12. N/A

NOTES: (1) GROSS HEAT RATE = $\frac{\text{TOTAL FUEL CONSUMED (Including Start-up) (in MMBtu)}}{\text{GROSS ELECTRICAL OUTPUT}}$

(2) NET HEAT RATE = $\frac{\text{TOTAL FUEL CONSUMED (MMBtu)}}{\text{GROSS ELECTRICAL OUTPUT - STATION SERVICE}}$

Indicate whether Station Service includes consumption for Common Facilities.

Southwestern Public Service Company

Generating Unit Efficiency and Control Systems

HARRINGTON UNIT #3

CATEGORY	DESCRIPTION / RESPONSE
INITIAL DESIGN EFFICIENCIES	
1. BOILER EFFICIENCY / STEAM CONDITIONS	1. MCR-84.89% / 1005F, 2620PSIG throttle, 1005F Hot Reheat Control - 85.20% / 1005F, 2430PSIG Throttle, 1005F Hot Reheat
2. TURBINE EFFICIENCY / STEAM CONDITIONS	2. HP-84.24%, IP-89.37%, LP-87.21% / 1000F, 2400PSIG Throttle; 1000F HRH
3. GENERATOR EFFICIENCY / MW : MVAR	3. Mech loss-1.961 MW; Elec loss-4.334 MW/360MW:174MVAR
4. CONDENSER CONDITIONS / COOLING WATER	4. 2" mercury absolute/80 F inlet cooling water
5. GROSS HEAT RATE (1)	5. 9189 BTU/KWH
6. ORIGINAL STATION LOAD	6. 17.3 MW
7. NET HEAT RATE (2)	7. 9673 BTU/KWH
8. HEAT RATE CURVE / EQUATION	8. Gross MW/Gross HR: 86.7/11006; 173.4/9680; 259.5/9270; 346.7/9192; 360.3/9196
"PROMOD" TYPE DATA	
1. STARTUP Btus	2930 MMBTU
2. MINIMUM MW / TOTAL Btus	163.0 / 1739
3. MINIMUM MW / INCREMENTAL Btus PER MWh	163.0 / 8.874
4. 1ST STEP MW / INCREMENTAL Btus PER MWh	192.3 / 9.090
5. 2ND STEP MW / INCREMENTAL Btus PER MWh	221.7 / 9.306
6. 3RD STEP MW / INCREMENTAL Btus PER MWh	251.0 / 9.522
7. 4TH STEP MW / INCREMENTAL Btus PER MWh	280.3 / 9.738
8. 5TH STEP MW / INCREMENTAL Btus PER MWh	309.7 / 9.954
9. 6TH STEP MW / INCREMENTAL Btus PER MWh	340.0 / 10.178

THREE MOST RECENT HEAT RATE TESTS

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
1. TEST 1	NET MW OUTPUT	Jun-16	164	230	254	302	339
	NET HEAT RATE		10,350	10,109	10,016	10,039	10,116
	NET INCREMENTAL HEAT RATE		9,012	9,660	9,896	10,359	10,728

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
2. TEST 2	NET MW OUTPUT	Sep-14	162	228	252	345	346
	NET HEAT RATE		10,685	10,208	10,168	10,041	10,109
	NET INCREMENTAL HEAT RATE		8,865	9,351	9,526	10,215	10,221

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	LEVEL 7
3. TEST 3	NET MW OUTPUT	Sep-09	155	188	220	252	284	316	348
	NET HEAT RATE		10,618	10,238	9,973	9,816	9,766	9,824	9,989
	NET INCREMENTAL HEAT RATE		7,660	8,270	8,869	9,469	10,068	10,667	11,266

CONTROL SYSTEMS	
1. DESCRIPTION OF TURBINE CONTROL SYS.	1. Digital Electro-Hydraulic Control
2. MANUFACTURER OF TURBINE CONTROL SYS.	2. Woodward/Foxboro
3. DATE & COST OF INSTALLATION	3. 2000 - $1,488,452
4. DESCRIPTION OF BOILER CONTROL SYS.	4. Digital
5. MANUFACTURER OF BOILER CONTROL SYS.	5. Foxboro
6. DATE & COST OF INSTALLATION	6. 2000 - $1,654,221
7. TYPE OF FAN CONTROL SYSTEM	7. variable speed fluid coupling/digital mechanical control
8. TYPE OF FEEDWATER PUMP CONTROL SYS.	8. variable speed drive turbine/mechanical electro hydraulic control
9. TYPE OF SOOT BLOWER CONTROL SYS.	9. microprocessor based system shared by all 3 units
10. NUMBER OF OPERATOR CONTROL ROOMS	10. 1
11. DESCRIPTION OF HEATRATE DEVIATION SYS.	11. calcs performed on the data acquisition system
12. TYPE OF SCRUBBER CONTROL SYS.	12. N/A

NOTES: (1) GROSS HEAT RATE = $\frac{\text{TOTAL FUEL CONSUMED (Including Start-up) (in MMBtu)}}{\text{GROSS ELECTRICAL OUTPUT}}$

(2) NET HEAT RATE = $\frac{\text{TOTAL FUEL CONSUMED (MMBtu)}}{\text{GROSS ELECTRICAL OUTPUT - STATION SERVICE}}$

Indicate whether Station Service includes consumption for Common Facilities.

Southwestern Public Service Company

Generating Unit Efficiency and Control Systems

TOLK UNIT #1

CATEGORY	DESCRIPTION / RESPONSE
INITIAL DESIGN EFFICIENCIES	
1. BOILER EFFICIENCY / STEAM CONDITIONS	1. MCR-86.10% / 1005F, 2620PSIG throttle, 1005F Hot Reheat Control - 86.39% / 1005F, 2436PSIG Throttle, 1005F Hot Reheat
2. TURBINE EFFICIENCY / STEAM CONDITIONS	2. HP-86.20%, IP-89.31%,LP-87.26% / 1000F, 2400 PSIG Throttle; 1000F HRH
3. GENERATOR EFFICIENCY / MW : MVAR	3. Mech loss-3.300 MW; Elec loss-6.582 MW/567MW:275MVAR
4. CONDENSER CONDITIONS / COOLING WATER	4. 2" mercury absolute / 80F inlet cooling water
5. GROSS HEAT RATE (1)	5. 9096 BTU/KWH
6. ORIGINAL STATION LOAD	6. 26.1 MW
7. NET HEAT RATE (2)	7. 9575 BTU/KWH
8. HEAT RATE CURVE / EQUATION	8. Gross MW/Gross HR: 130.4/10480; 261.0/9538; 395.8/9163; 521.4/9096; 543.0/9100
"PROMOD" TYPE DATA	
1. STARTUP Btus	4690 MMBTU
2. MINIMUM MW / TOTAL Btus	185.0 / 2029
3. MINIMUM MW / INCREMENTAL Btus PER MWh	185.0 / 8.508
4. 1ST STEP MW / INCREMENTAL Btus PER MWh	241.0 / 8.870
5. 2ND STEP MW / INCREMENTAL Btus PER MWh	297.0 / 9.233
6. 3RD STEP MW / INCREMENTAL Btus PER MWh	353.0 / 9.595
7. 4TH STEP MW / INCREMENTAL Btus PER MWh	409.0 / 9.957
8. 5TH STEP MW / INCREMENTAL Btus PER MWh	465.0 / 10.320
9. 6TH STEP MW / INCREMENTAL Btus PER MWh	521.0 / 10.682

THREE MOST RECENT HEAT RATE TESTS

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
1. TEST 1	NET MW OUTPUT	Jul-19	125	251	386	498	515
	NET HEAT RATE		11,595	10,401	9,951	9,890	10,015
	NET INCREMENTAL HEAT RATE		8,761	9,175	9,618	9,986	10,042

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
1. TEST 2	NET MW OUTPUT	Aug-15	180	283	393	459	517
	NET HEAT RATE		11,016	10,249	10,046	9,969	10,104
	NET INCREMENTAL HEAT RATE		8,473	9,144	9,851	10,280	10,656

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6
2. TEST 3	NET MW OUTPUT	Jul-12	195	330	415	525	530	537
	NET HEAT RATE		11,289	10,055	10,045	9,898	9,982	10,037
	NET INCREMENTAL HEAT RATE		8,019	8,999	9,618	10,412	10,451	10,502

CONTROL SYSTEMS	
1. DESCRIPTION OF TURBINE CONTROL SYS.	1. Digital Electro-Hydraulic Control
2. MANUFACTURER OF TURBINE CONTROL SYS.	2. Woodward/Foxboro
3. DATE & COST OF INSTALLATION	3. 2006 - $2,026,904
4. DESCRIPTION OF BOILER CONTROL SYS.	4. Digital
5. MANUFACTURER OF BOILER CONTROL SYS.	5. Foxboro
6. DATE & COST OF INSTALLATION	6. 2006 - $1,651,129
7. TYPE OF FAN CONTROL SYSTEM	7. variable speed motor drive - digital control
8. TYPE OF FEEDWATER PUMP CONTROL SYS.	8. variable speed turbine drive - mechanical electro hydraulic control
9. TYPE OF SOOT BLOWER CONTROL SYS.	9. microprocessor control system
10. NUMBER OF OPERATOR CONTROL ROOMS	10. 1
11. DESCRIPTION OF HEATRATE DEVIATION SYS.	11. calcs performed automatically on data acquisition system
12. TYPE OF SCRUBBER CONTROL SYS.	12. N/A

NOTES: (1) GROSS HEAT RATE = $\frac{\text{TOTAL FUEL CONSUMED (Including Start-up) (in MMBtu)}}{\text{GROSS ELECTRICAL OUTPUT}}$

(2) NET HEAT RATE = $\frac{\text{TOTAL FUEL CONSUMED (MMBtu)}}{\text{GROSS ELECTRICAL OUTPUT - STATION SERVICE}}$

Indicate whether Station Service includes consumption for Common Facilities.

Southwestern Public Service Company

Generating Unit Efficiency and Control Systems

TOLK UNIT #2

CATEGORY	DESCRIPTION / RESPONSE
INITIAL DESIGN EFFICIENCIES	
1. BOILER EFFICIENCY / STEAM CONDITIONS	1. MCR-86.10% / 1005F, 2620PSIG throttle, 1005F Hot Reheat Control - 86.39% / 1005F, 2436PSIG Throttle, 1005F Hot Reheat
2. TURBINE EFFICIENCY / STEAM CONDITIONS	2. HP-85.95%, IP-88.94%, LP-88.31% / 1000F, 2400 PSIG Throttle; 1000F HRH
3. GENERATOR EFFICIENCY / MW : MVAR	3. Mech loss-3.300 MW; Elec loss-6.622 MW/567MW:275MVAR
4. CONDENSER CONDITIONS / COOLING WATER	4. 2" mercury absolute / 80F inlet cooling water
5. GROSS HEAT RATE (1)	5. 9045 BTU/KWH
6. ORIGINAL STATION LOAD	6. 26.2 MW
7. NET HEAT RATE (2)	7. 9521 BTU/KWH
8. HEAT RATE CURVE / EQUATION	8. Gross MW/Gross HR: 131.0/10478; 263.0/9524; 394.0/9122; 523.6/9045; 545.8/9042
"PROMOD" TYPE DATA	
1. STARTUP Btus	4690 MMBTU
2. MINIMUM MW / TOTAL Btus	185.0 / 1994
3. MINIMUM MW / INCREMENTAL Btus PER MWh	185.0 / 8.579
4. 1ST STEP MW / INCREMENTAL Btus PER MWh	241.5 / 8.909
5. 2ND STEP MW / INCREMENTAL Btus PER MWh	298.0 / 9.239
6. 3RD STEP MW / INCREMENTAL Btus PER MWh	354.5 / 9.570
7. 4TH STEP MW / INCREMENTAL Btus PER MWh	411.0 / 9.900
8. 5TH STEP MW / INCREMENTAL Btus PER MWh	467.5 / 10.230
9. 6TH STEP MW / INCREMENTAL Btus PER MWh	524.0 / 10.560

THREE MOST RECENT HEAT RATE TESTS

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6
1. TEST 1	NET MW OUTPUT	Sep-17	187	284	380	477	524	525.6
	NET HEAT RATE		10,540	10,096	9,820	9,817	9,863	9849
	NET INCREMENTAL HEAT RATE		8,766	9,155	9,543	9,931	10,119	10127

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
2. TEST 2	NET MW OUTPUT	Oct-16	183	286	398	462	523
	NET HEAT RATE		10,760	10,201	9,942	9,924	10,063
	NET INCREMENTAL HEAT RATE		8,581	9,209	9,882	10,275	10,641

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6
3. TEST 3	NET MW OUTPUT	Feb-15	181	289	400	464	526	537
	NET HEAT RATE		10,808	10,131	9,899	9,959	10,012	9,999
	NET INCREMENTAL HEAT RATE		8,557	9,189	9,835	10,211	10,573	10,635

CONTROL SYSTEMS	
1. DESCRIPTION OF TURBINE CONTROL SYS.	1. Digital Electro-Hydraulic Control
2. MANUFACTURER OF TURBINE CONTROL SYS.	2. Woodward/Foxboro
3. DATE & COST OF INSTALLATION	3. 2005 - $2,097,797
4. DESCRIPTION OF BOILER CONTROL SYS.	4. Digital
5. MANUFACTURER OF BOILER CONTROL SYS.	5. Foxboro
6. DATE & COST OF INSTALLATION	6. 2005 - $1,921,290
7. TYPE OF FAN CONTROL SYSTEM	7. variable speed motor drive - digital control
8. TYPE OF FEEDWATER PUMP CONTROL SYS.	8. variable speed turbine drive - mechanical electro hydraulic control
9. TYPE OF SOOT BLOWER CONTROL SYS.	9. microprocessor control system
10. NUMBER OF OPERATOR CONTROL ROOMS	10. 1
11. DESCRIPTION OF HEATRATE DEVIATION SYS.	11. calcs performed automatically on data acquisition system
12. TYPE OF SCRUBBER CONTROL SYS.	12. N/A

NOTES: (1) GROSS HEAT RATE = $\frac{\text{TOTAL FUEL CONSUMED (Including Start-up) (in MMBtu)}}{\text{GROSS ELECTRICAL OUTPUT}}$

(2) NET HEAT RATE = $\frac{\text{TOTAL FUEL CONSUMED (MMBtu)}}{\text{GROSS ELECTRICAL OUTPUT - STATION SERVICE}}$

Indicate whether Station Service includes consumption for Common Facilities.

Southwestern Public Service Company

Generating Unit Efficiency and Control Systems

NICHOLS UNIT #1

CATEGORY	DESCRIPTION / RESPONSE
INITIAL DESIGN EFFICIENCIES	
1. BOILER EFFICIENCY / STEAM CONDITIONS	1. MCR-84.40% / 1000F; 1450PSIG throttle; 1000F Hot Reheat Control - 85.20% / 1000F; 1450PSIG Throttle; 1000F Hot Reheat
2. TURBINE EFFICIENCY / STEAM CONDITIONS	2. HP-80.28%; IPthruLP-88.36% / 1000F; 1450 PSIG Throttle; 1000F HRH
3. GENERATOR EFFICIENCY / MW : MVAR	3. Mech loss-0.550MW; Elec loss-1.265MW/114MW:70MVAR
4. CONDENSER CONDITIONS / COOLING WATER	4. 1.5" mercury absolute / 80F inlet cooling water
5. GROSS HEAT RATE (1)	5. 9550 BTU/KWH
6. ORIGINAL STATION LOAD	6. 5.0 MW
7. NET HEAT RATE (2)	7. 10052 BTU/KWH
8. HEAT RATE CURVE / EQUATION	8. Gross MW/Gross HR: 25.0/11407; 50.0/10090; 74.9/9630; 100.1/9549;
"PROMOD" TYPE DATA	
1. STARTUP Btus	584 MMBTU
2. MINIMUM MW / TOTAL Btus	25.0 / 300
3. MINIMUM MW / INCREMENTAL Btus PER MWh	25.0 / 8.173
4. 1ST STEP MW / INCREMENTAL Btus PER MWh	38.7 / 8.624
5. 2ND STEP MW / INCREMENTAL Btus PER MWh	52.3 / 9.074
6. 3RD STEP MW / INCREMENTAL Btus PER MWh	66.0 / 9.525
7. 4TH STEP MW / INCREMENTAL Btus PER MWh	79.7 / 9.975
8. 5TH STEP MW / INCREMENTAL Btus PER MWh	93.3 / 10.426
9. 6TH STEP MW / INCREMENTAL Btus PER MWh	107.0 / 10.876

THREE MOST RECENT HEAT RATE TESTS

	DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6
1. TEST 1 NET MW OUTPUT	Jul-06	43	51	65	81	110	111
NET HEAT RATE		11,246	10,693	10,215	10,001	10,083	10,093
NET INCREMENTAL HEAT RATE		7,640	8,062	8,749	9,593	11,038	11,099

	DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6
2. TEST 2 NET MW OUTPUT	Aug-02	43	51	65	81	110	111
NET HEAT RATE		11,306	10,971	10,261	10,063	10,059	10,038
NET INCREMENTAL HEAT RATE		8,171	8,396	8,791	9,372	10,732	10,811

	DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6
3. TEST 3 NET MW OUTPUT	Feb-91	39	46	54	63	72	80
NET HEAT RATE		11,330	10,860	10,408	10,138	9,934	9,835
NET INCREMENTAL HEAT RATE		7,963	8,100	8,310	8,518	8,783	9,004

	DATE	LEVEL 7	LEVEL 8	LEVEL 9	LEVEL 10
TEST 3 CONTINUED NET MW OUTPUT	Feb-91	92	101	109	115
NET HEAT RATE		9,750	9,733	9,748	9,777
NET INCREMENTAL HEAT RATE		9,403	9,749	10,094	10,352

CONTROL SYSTEMS	
1. DESCRIPTION OF TURBINE CONTROL SYS.	1. Analog/mechanical
2. MANUFACTURER OF TURBINE CONTROL SYS.	2. REXA
3. DATE & COST OF INSTALLATION	3. 2006 - $41,011
4. DESCRIPTION OF BOILER CONTROL SYS.	4. Digital
5. MANUFACTURER OF BOILER CONTROL SYS.	5. Foxboro
6. DATE & COST OF INSTALLATION	6. 2006 - $381,182
7. TYPE OF FAN CONTROL SYSTEM	7. inlet air vanes/mechanical controller
8. TYPE OF FEEDWATER PUMP CONTROL SYS.	8. variable speed fluid coupling/mechanical controller
9. TYPE OF SOOT BLOWER CONTROL SYS.	9. N/A
10. NUMBER OF OPERATOR CONTROL ROOMS	10. 1
11. DESCRIPTION OF HEATRATE DEVIATION SYS.	11. deviation calcs performed by PC interfaced with data acquisition system
12. TYPE OF SCRUBBER CONTROL SYS.	12. N/A

NOTES: (1) GROSS HEAT RATE = TOTAL FUEL CONSUMED (Including Start-up) (in MMBtu) / GROSS ELECTRICAL OUTPUT

(2) NET HEAT RATE = TOTAL FUEL CONSUMED (MMBtu) / GROSS ELECTRICAL OUTPUT - STATION SERVICE
Indicate whether Station Service includes consumption for Common Facilities.

Southwestern Public Service Company

Generating Unit Efficiency and Control Systems

NICHOLS UNIT #2

CATEGORY	DESCRIPTION / RESPONSE
INITIAL DESIGN EFFICIENCIES	
1. BOILER EFFICIENCY / STEAM CONDITIONS	1. MCR-84.40% / 1000F; 1450PSIG throttle; 1000F Hot Reheat Control - 85.20% / 1000F; 1450PSIG Throttle; 1000F Hot Reheat
2. TURBINE EFFICIENCY / STEAM CONDITIONS	2. HP-78.93%; IP-90.54%; LP-80.05% / 1000F; 1450 PSIG Throttle; 1000F HRH
3. GENERATOR EFFICIENCY / MW : MVAR	3. Mech loss-0.660 MW; Elec loss-1.500 MW/114MW:70MVAR
4. CONDENSER CONDITIONS / COOLING WATER	4. 1.5" mercury absolute / 80F cooling water inlet
5. GROSS HEAT RATE (1)	5. 9534 BTU/KWH
6. ORIGINAL STATION LOAD	6. 5.0 MW
7. NET HEAT RATE (2)	7. 10036 BTU/KWH
8. HEAT RATE CURVE / EQUATION	8. Gross MW/Gross HR: 25.0/11590; 50.0/10055; 74.9/9588; 100.1/9518; 109.7/9592
"PROMOD" TYPE DATA	
1. STARTUP Btus	901 MMBTU
2. MINIMUM MW / TOTAL Btus	18.0 / 253
3. MINIMUM MW / INCREMENTAL Btus PER MWh	18.0 / 8.242
4. 1ST STEP MW / INCREMENTAL Btus PER MWh	32.7 / 8.561
5. 2ND STEP MW / INCREMENTAL Btus PER MWh	47.3 / 8.881
6. 3RD STEP MW / INCREMENTAL Btus PER MWh	62.0 / 9.200
7. 4TH STEP MW / INCREMENTAL Btus PER MWh	76.7 / 9.519
8. 5TH STEP MW / INCREMENTAL Btus PER MWh	91.3 / 9.838
9. 6TH STEP MW / INCREMENTAL Btus PER MWh	106.0 / 10.157

THREE MOST RECENT HEAT RATE TESTS

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	LEVEL 7
1. TEST 1	NET MW OUTPUT	Jan-05	45	54	63	77	89	103	114
	NET HEAT RATE		10,737	10,435	10,248	10,089	10,031	10,018	10,037
	NET INCREMENTAL HEAT RATE		8,830	9,026	9,221	9,526	9,787	10,092	10,331

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	LEVEL 7
2. TEST 2	NET MW OUTPUT	Sep-93	45	55	63	77	89	103	114
	NET HEAT RATE		10,924	10,489	10,247	10,021	9,919	9,870	9,866
	NET INCREMENTAL HEAT RATE		8,468	8,677	8,863	9,156	9,417	9,719	9,947

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6
3. TEST 3	NET MW OUTPUT	1986	40	59	81	92	101	107
	NET HEAT RATE		11,223	10,367	9,980	9,903	9,872	9,866
	NET INCREMENTAL HEAT RATE		8,447	8,774	9,219	9,462	9,681	9,835

CONTROL SYSTEMS	
1. DESCRIPTION OF TURBINE CONTROL SYS.	1. Analog/mechanical
2. MANUFACTURER OF TURBINE CONTROL SYS.	2. REXA
3. DATE & COST OF INSTALLATION	3. 2005 - $40,011
4. DESCRIPTION OF BOILER CONTROL SYS.	4. Digital
5. MANUFACTURER OF BOILER CONTROL SYS.	5. Foxboro
6. DATE & COST OF INSTALLATION	6. 2005 - $416,850
7. TYPE OF FAN CONTROL SYSTEM	7. inlet air vanes/mechanical controller
8. TYPE OF FEEDWATER PUMP CONTROL SYS.	8. variable speed fluid coupling/mechanical controller
9. TYPE OF SOOT BLOWER CONTROL SYS.	9. N/A
10. NUMBER OF OPERATOR CONTROL ROOMS	10. 1
11. DESCRIPTION OF HEATRATE DEVIATION SYS.	11. deviation calcs performed by PC interfaced with data acquisition system
12. TYPE OF SCRUBBER CONTROL SYS.	12. N/A

NOTES: (1) GROSS HEAT RATE = $\frac{\text{TOTAL FUEL CONSUMED (Including Start-up) (in MMBtu)}}{\text{GROSS ELECTRICAL OUTPUT}}$

(2) NET HEAT RATE = $\frac{\text{TOTAL FUEL CONSUMED (MMBtu)}}{\text{GROSS ELECTRICAL OUTPUT - STATION SERVICE}}$

Indicate whether Station Service includes consumption for Common Facilities.

Southwestern Public Service Company

Generating Unit Efficiency and Control Systems

NICHOLS UNIT #3

CATEGORY	DESCRIPTION / RESPONSE
INITIAL DESIGN EFFICIENCIES	
1. BOILER EFFICIENCY/STEAM CONDITIONS	1. MCR-85.44% / 1005F; 1940PSIG throttle; 1005F Hot Reheat Control - 85.47% / 1005F; 1845PSIG Throttle; 1005F Hot Reheat
2. TURBINE EFFICIENCY/STEAM CONDITIONS	2. HP-83.75%; IP-86.49%; LP-84.41% / 1000F; 1800 PSIG Throttle; 1000F HRH
3. GENERATOR EFFICIENCY/MW:MVAR	3. Mech loss-0.677 MW; Elec loss-3.485 MW/248MW;118MVAR
4. CONDENSER CONDITIONS/COOLING WTR	4. 2" mercury absolute / 80F cooling water inlet
5. GROSS HEAT RATE (1)	5. 9406 BTU/KWH
6. ORIGINAL STATION LOAD	6. 11.8 MW
7. NET HEAT RATE (2)	7. 9901 BTU/KWH
8. HEAT RATE CURVE/EQUATION	8. Gross MW/Gross HR: 59.7/10535; 124.8/9603; 235.2/9406; 244.5/9423;
"PROMOD" TYPE DATA	
1. STARTUP Btus	1550 MMBTU
2. MINIMUM MW / TOTAL Btus	25.0 / 349
3. MINIMUM MW / INCREMENTAL Btus PER MWh	25.0 / 8.850
4. 1ST STEP MW / INCREMENTAL Btus PER MWh	61.5 / 9.166
5. 2ND STEP MW / INCREMENTAL Btus PER MWh	98.0 / 9.482
6. 3RD STEP MW / INCREMENTAL Btus PER MWh	134.5 / 9.798
7. 4TH STEP MW / INCREMENTAL Btus PER MWh	171.0 / 10.114
8. 5TH STEP MW / INCREMENTAL Btus PER MWh	207.5 / 10.430
9. 6TH STEP MW / INCREMENTAL Btus PER MWh	244.0 / 10.746

THREE MOST RECENT HEAT RATE TESTS (3)

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6
1. TEST 1	NET MW OUTPUT	Nov-15	23	60	113	180	243	246.7
	NET HEAT RATE		17,209	11,478	10,535	10,375	10,143	10128
	NET INCREMENTAL HEAT RATE		8,822	9,043	9,364	9,768	10,151	10173

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
2. TEST 2	NET MW OUTPUT	Mar-10	60	121	181	210	239
	NET HEAT RATE		11,065	10,416	10,136	10,132	10,213
	NET INCREMENTAL HEAT RATE		9,152	9,677	10,202	10,454	10,706

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	LEVEL 7
3. TEST 3	NET MW OUTPUT	Jun-05	74	109	133	150	182	221	245
	NET HEAT RATE		10,829	10,315	10,164	10,105	10,061	10,079	10,110
	NET INCREMENTAL HEAT RATE		9,102	9,388	9,585	9,726	9,998	10,322	10,509

CONTROL SYSTEMS	
1. DESCRIPTION OF TURBINE CONTROL SYS.	1. Digital Electro-Hydraulic Control
2. MANUFACTURER OF TURBINE CONTROL SYS.	2. Woodward/Foxboro
3. DATE & COST OF INSTALLATION	3. 2013 - $426,328
4. DESCRIPTION OF BOILER CONTROL SYS.	4. Digital
5. MANUFACTURER OF BOILER CONTROL SYS.	5. Foxboro
6. DATE & COST OF INSTALLATION	6. 2013 - $446,055
7. TYPE OF FAN CONTROL SYSTEM	7. variable frequency drive/digital controller
8. TYPE OF FEEDWATER PUMP CONTROL SYS.	8. variable speed fluid coupling/mechanical controller
9. TYPE OF SOOT BLOWER CONTROL SYS.	9. N/A
10. NUMBER OF OPERATOR CONTROL ROOMS	10. 1
11. DESCRIPTION OF HEATRATE DEVIATION SYS.	11. calcs performed by plant computer
12. TYPE OF SCRUBBER CONTROL SYS.	12. N/A

NOTES: (1) GROSS HEAT RATE = $\frac{\text{TOTAL FUEL CONSUMED (Including Start-up) (in MMBtu)}}{\text{GROSS ELECTRICAL OUTPUT}}$

(2) NET HEAT RATE = $\frac{\text{TOTAL FUEL CONSUMED (MMBtu)}}{\text{GROSS ELECTRICAL OUTPUT - STATION SERVICE}}$

Indicate whether Station Service includes consumption for Common Facilities.

(3) Nichols 3 can be operated at 25 MW gross load off of LFC and EDC control. The unit is not dispatched between 25 MW and 62 MW. The fuel input at 25 MW gross load is 316 MMBTU/hr., and the station load is 3.36 MW.

Southwestern Public Service Company

Generating Unit Efficiency and Control Systems

PLANT X UNIT #1

CATEGORY	DESCRIPTION / RESPONSE
INITIAL DESIGN EFFICIENCIES	
1. BOILER EFFICIENCY/STEAM CONDITIONS	1. MCR-83.40% / 900F; 900PSIG throttle Control - 83.40% / 1000F; 1450PSIG Throttle
2. TURBINE EFFICIENCY/STEAM CONDITIONS	2. Turbine - 83.47% / 900F; 850 PSIG Throttle
3. GENERATOR EFFICIENCY/MW:MVAR	3. Mech loss-0.284 MW; Elec loss-0.595 MW/48MW;36MVAR
4. CONDENSER CONDITIONS/COOLING WTR	4 2" mercury absolute / 80F cooling water inlet
5. GROSS HEAT RATE (1)	5. 11749 BTU/KWH
6. ORIGINAL STATION LOAD	6. 2.8 MW
7. NET HEAT RATE (2)	7. 12633 BTU/KWH
8. HEAT RATE CURVE/EQUATION	8. Gross MW/Gross HR: 20.0/12266; 29.7/11963; 39.6/11749; 48.5/11933
"PROMOD" TYPE DATA	
1. STARTUP Btus	63 MMBTU
2. MINIMUM MW / TOTAL Btus	21.0 / 300
3. MINIMUM MW / INCREMENTAL Btus PER MWh	21.0 / 12.055
4. 1ST STEP MW / INCREMENTAL Btus PER MWh	23.8 / 12.313
5. 2ND STEP MW / INCREMENTAL Btus PER MWh	26.7 / 12.571
6. 3RD STEP MW / INCREMENTAL Btus PER MWh	29.5 / 12.829
7. 4TH STEP MW / INCREMENTAL Btus PER MWh	32.3 / 13.087
8. 5TH STEP MW / INCREMENTAL Btus PER MWh	35.2 / 13.345
9. 6TH STEP MW / INCREMENTAL Btus PER MWh	38.0 / 13.603

THREE MOST RECENT HEAT RATE TESTS

	DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	LEVEL 7
1. TEST 1 NET MW OUTPUT	Jul-09	23	26	29	31	34	37	41
NET HEAT RATE		14,176	13,926	13,742	13,642	13,576	13,574	13,660
NET INCREMENTAL HEAT RATE		7,537	7,801	8,065	8,274	8,538	8,802	9,120

	DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	LEVEL 7
2. TEST 2 NET MW OUTPUT	Jul-06	18	22	27	32	40	48	50
NET HEAT RATE		14,682	14,192	13,862	13,709	13,667	13,765	13,803
NET INCREMENTAL HEAT RATE		11,794	12,173	12,646	13,120	13,877	14,635	14,824

Only two full heat balance tests are available

CONTROL SYSTEMS	
1. DESCRIPTION OF TURBINE CONTROL SYS.	1. Analog/mechanical
2. MANUFACTURER OF TURBINE CONTROL SYS.	2. REXA
3. DATE & COST OF INSTALLATION	3. 1998 - $33,660
4. DESCRIPTION OF BOILER CONTROL SYS.	4. Digital
5. MANUFACTURER OF BOILER CONTROL SYS.	5. Foxboro
6. DATE & COST OF INSTALLATION	6. 1998 - $230,064
7. TYPE OF FAN CONTROL SYSTEM	7. inlet air vanes/mechanical controller
8. TYPE OF FEEDWATER PUMP CONTROL SYS.	8. variable speed fluid coupling/mechanical controller
9. TYPE OF SOOT BLOWER CONTROL SYS.	9. N/A
10. NUMBER OF OPERATOR CONTROL ROOMS	10. 1
11. DESCRIPTION OF HEATRATE DEVIATION SYS.	11. none
12. TYPE OF SCRUBBER CONTROL SYS.	12. N/A

NOTES: (1) GROSS HEAT RATE = TOTAL FUEL CONSUMED (Including Start-up) (in MMBtu) / GROSS ELECTRICAL OUTPUT

(2) NET HEAT RATE = TOTAL FUEL CONSUMED (MMBtu) / GROSS ELECTRICAL OUTPUT - STATION SERVICE

Indicate whether Station Service includes consumption for Common Facilities.

Southwestern Public Service Company

Generating Unit Efficiency and Control Systems

PLANT X UNIT #2

CATEGORY	DESCRIPTION / RESPONSE
INITIAL DESIGN EFFICIENCIES	
1. BOILER EFFICIENCY/STEAM CONDITIONS	1. MCR- 83.62% / 950F; 1350 PSIG throttle Control - 83.77% / 950F; 1350 PSIG throttle
2. TURBINE EFFICIENCY/STEAM CONDITIONS	2. Turbine - 84.51% / 950F; 1250 PSIG Throttle
3. GENERATOR EFFICIENCY/MW:MVAR	3. Mech loss-0.527MW; Elec loss-1.520MW/98MW;74 MVAR
4. CONDENSER CONDITIONS/COOLING WTR	4. 2" mercury absolute / 80F cooling water inlet
5. GROSS HEAT RATE (1)	5. 10690 BTU/KWH
6. ORIGINAL STATION LOAD	6. 6.9 MW
7. NET HEAT RATE (2)	7. 11495 BTU/KWH
8. HEAT RATE CURVE/EQUATION	8. Gross MW/Gross HR: 39.0/11517; 79.7/10717; 103.9/10743; 117.2/10785
"PROMOD" TYPE DATA	
1. STARTUP Btus	245 MMBTU
2. MINIMUM MW / TOTAL Btus	21.0 / 309
3. MINIMUM MW / INCREMENTAL Btus PER MWh	21.0 / 9.602
4. 1ST STEP MW / INCREMENTAL Btus PER MWh	31.8 / 9.967
5. 2ND STEP MW / INCREMENTAL Btus PER MWh	42.7 / 10.332
6. 3RD STEP MW / INCREMENTAL Btus PER MWh	53.5 / 10.697
7. 4TH STEP MW / INCREMENTAL Btus PER MWh	64.3 / 11.062
8. 5TH STEP MW / INCREMENTAL Btus PER MWh	75.2 / 11.427
9. 6TH STEP MW / INCREMENTAL Btus PER MWh	86.0 / 11.793

THREE MOST RECENT HEAT RATE TESTS

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
1. TEST 1	NET MW OUTPUT	Jul-14	22	39	57	74	92
	NET HEAT RATE		14,560	12,415	11,965	11,630	11,708
	NET INCREMENTAL HEAT RATE		9,625	10,223	10,802	11,398	12,000

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	LEVEL 7
2. TEST 2	NET MW OUTPUT	Jul-09	23	32	42	56	71	82	93
	NET HEAT RATE		14,446	13,447	12,463	11,852	11,589	11,278	11,323
	NET INCREMENTAL HEAT RATE		10,064	10,136	10,208	10,317	10,426	10,513	10,599

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	LEVEL 7
3. TEST 3	NET MW OUTPUT	Jul-06	36	44	54	65	79	96	107
	NET HEAT RATE		12,442	12,053	11,744	11,529	11,362	11,248	11,207
	NET INCREMENTAL HEAT RATE		10,270	10,340	10,427	10,524	10,646	10,795	10,892

CONTROL SYSTEMS	
1. DESCRIPTION OF TURBINE CONTROL SYS.	1. Analog/mechanical
2. MANUFACTURER OF TURBINE CONTROL SYS.	2. REXA
3. DATE & COST OF INSTALLATION	3. 1997 - $32,839
4. DESCRIPTION OF BOILER CONTROL SYS.	4. Digital
5. MANUFACTURER OF BOILER CONTROL SYS.	5. Foxboro
6. DATE & COST OF INSTALLATION	6. 1997 - $381,886
7. TYPE OF FAN CONTROL SYSTEM	7. inlet air vanes/mechanical controller
8. TYPE OF FEEDWATER PUMP CONTROL SYS.	8. variable speed fluid coupling/mechanical controller
9. TYPE OF SOOT BLOWER CONTROL SYS.	9. N/A
10. NUMBER OF OPERATOR CONTROL ROOMS	10. 1
11. DESCRIPTION OF HEATRATE DEVIATION SYS.	11. none
12. TYPE OF SCRUBBER CONTROL SYS.	12. N/A

NOTES: (1) GROSS HEAT RATE = $\frac{\text{TOTAL FUEL CONSUMED (Including Start-up) (in MMBtu)}}{\text{GROSS ELECTRICAL OUTPUT}}$

(2) NET HEAT RATE = $\frac{\text{TOTAL FUEL CONSUMED (MMBtu)}}{\text{GROSS ELECTRICAL OUTPUT - STATION SERVICE}}$

Indicate whether Station Service includes consumption for Common Facilities.

Southwestern Public Service Company

Generating Unit Efficiency and Control Systems

PLANT X UNIT #3

CATEGORY	DESCRIPTION / RESPONSE
INITIAL DESIGN EFFICIENCIES	
1. BOILER EFFICIENCY/STEAM CONDITIONS	1. MCR-83.50% / 1000F; 1525PSIG throttle; 1000F Hot Reheat Control - 84.60% / 1000F; 1525PSIG Throttle; 1000F Hot Reheat
2. TURBINE EFFICIENCY/STEAM CONDITIONS	2. HP-80.24%; IP&LP-87.68% / 1000F; 1450 PSIG Throttle; 1000F HRH
3. GENERATOR EFFICIENCY/MW:MVAR	3. Mech loss-0.527MW;Elec loss-1.520MW/98MW; 74MVAR
4. CONDENSER CONDITIONS/COOLING WTR	4. 1.5" mercury absolute / 80F cooling water inlet
5. GROSS HEAT RATE (1)	5. 9699 BTU/KWH
6. ORIGINAL STATION LOAD	6. 5.0 MW
7. NET HEAT RATE (2)	7. 10209 BTU/KWH
8. HEAT RATE CURVE/EQUATION	8. Gross MW/Gross HR: 40.2/10412; 60.2/10012; 80.2/ 9857; 99.7/9856;
"PROMOD" TYPE DATA	
1. STARTUP Btus	242 MMBTU
2. MINIMUM MW / TOTAL Btus	35.0 / 398
3. MINIMUM MW / INCREMENTAL Btus PER MWh	35.0 / 9.591
4. 1ST STEP MW / INCREMENTAL Btus PER MWh	44.7 / 9.664
5. 2ND STEP MW / INCREMENTAL Btus PER MWh	54.3 / 9.737
6. 3RD STEP MW / INCREMENTAL Btus PER MWh	64.0 / 9.810
7. 4TH STEP MW / INCREMENTAL Btus PER MWh	73.7 / 9.882
8. 5TH STEP MW / INCREMENTAL Btus PER MWh	83.3 / 9.955
9. 6TH STEP MW / INCREMENTAL Btus PER MWh	93.0 / 10.028

THREE MOST RECENT HEAT RATE TESTS (3)

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
1. TEST 1	NET MW OUTPUT	Feb-12	25	43	62	80	104
	NET HEAT RATE		12,201	11,089	10,568	10,333	10,284
	NET INCREMENTAL HEAT RATE		9,397	9,539	9,690	9,832	10,022

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	LEVEL 7
2. TEST 2	NET MW OUTPUT	Jul-08	32	39	46	58	70	85	100
	NET HEAT RATE		11,673	11,405	11,088	11,010	10,958	10,801	10,822
	NET INCREMENTAL HEAT RATE		10,194	10,253	10,311	10,408	10,504	10,623	10,741

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	LEVEL 7
3. TEST 3	NET MW OUTPUT	Aug-06	20	30	40	50	60	70	80
	NET HEAT RATE		14,249	12,527	11,736	11,318	11,087	10,962	10,903
	NET INCREMENTAL HEAT RATE		8,940	9,223	9,505	9,788	10,070	10,352	10,635

		DATE	LEVEL 8	LEVEL 9	LEVEL 10
TEST 3 CONTINUED	NET MW OUTPUT	Aug-06	90	100	110
	NET HEAT RATE		10,889	10,906	10,945
	NET INCREMENTAL HEAT RATE		10,917	11,199	11,482

CONTROL SYSTEMS	
1. DESCRIPTION OF TURBINE CONTROL SYS.	1. Analog/mechanical
2. MANUFACTURER OF TURBINE CONTROL SYS.	2. REXA
3. DATE & COST OF INSTALLATION	3. 1996 - $32,038
4. DESCRIPTION OF BOILER CONTROL SYS.	4. Digital
5. MANUFACTURER OF BOILER CONTROL SYS.	5. Foxboro
6. DATE & COST OF INSTALLATION	6. 1995 - $480,835
7. TYPE OF FAN CONTROL SYSTEM	7. inlet air vanes/mechanical controller
8. TYPE OF FEEDWATER PUMP CONTROL SYS.	8. variable speed fluid coupling/mechanical controller
9. TYPE OF SOOT BLOWER CONTROL SYS.	9. N/A
10. NUMBER OF OPERATOR CONTROL ROOMS	10. 1
11. DESCRIPTION OF HEATRATE DEVIATION SYS.	11. none
12. TYPE OF SCRUBBER CONTROL SYS.	12. N/A

NOTES: (1) GROSS HEAT RATE = TOTAL FUEL CONSUMED (Including Start-up) (in MMBtu) / GROSS ELECTRICAL OUTPUT

(2) NET HEAT RATE = TOTAL FUEL CONSUMED (MMBtu) / GROSS ELECTRICAL OUTPUT - STATION SERVICE
Indicate whether Station Service includes consumption for Common Facilities.

(3) Heat Rate data for Unit 3 when Units 1 & 2 are offline.

Southwestern Public Service Company

Generating Unit Efficiency and Control Systems

PLANT X UNIT #4

CATEGORY	DESCRIPTION / RESPONSE
INITIAL DESIGN EFFICIENCIES	
1. BOILER EFFICIENCY/STEAM CONDITIONS	1. MCR-84.48% / 1000F; 1965PSIG throttle; 1000F Hot Reheat Control - 85.28% /1000F; 1850PSIG Throttle; 1000F Hot Reheat
2. TURBINE EFFICIENCY/STEAM CONDITIONS	2. HP-82.24%; IP-87.16%;LP-85.61% / 1000F; 1800 PSIG Throttle;
3. GENERATOR EFFICIENCY/MW:MVAR	3. Mech loss-0.750 MW; Elec loss-1.973 MW/190MW:118MVAR
4. CONDENSER CONDITIONS/COOLING WTR	4. 2" mercury absolute / 80F cooling water inlet
5. GROSS HEAT RATE (1)	5. 9441 BTU/KWH
6. ORIGINAL STATION LOAD	6. 9.0 MW
7. NET HEAT RATE (2)	7. 9938 BTU/KWH
8. HEAT RATE CURVE/EQUATION	8. Gross MW/Gross HR: 45.0/10874; 90.0/ 9859; 135.0/9524; 180.0/ 9441;
"PROMOD" TYPE DATA	
1. STARTUP Btus	726 MMBTU
2. MINIMUM MW / TOTAL Btus	55.0 / 614
3. MINIMUM MW / INCREMENTAL Btus PER MWh	55.0 / 8.744
4. 1ST STEP MW / INCREMENTAL Btus PER MWh	77.5 / 9.026
5. 2ND STEP MW / INCREMENTAL Btus PER MWh	100.0 / 9.307
6. 3RD STEP MW / INCREMENTAL Btus PER MWh	122.5 / 9.589
7. 4TH STEP MW / INCREMENTAL Btus PER MWh	145.0 / 9.871
8. 5TH STEP MW / INCREMENTAL Btus PER MWh	167.5 / 10.153
9. 6TH STEP MW / INCREMENTAL Btus PER MWh	190.0 / 10.435

THREE MOST RECENT HEAT RATE TESTS

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6
1. TEST 1	NET MW OUTPUT	Jun-11	54	81	127	171	191	192
	NET HEAT RATE		11,123	10,540	10,014	9,989	10,078	10,001
	NET INCREMENTAL HEAT RATE		8,755	9,080	9,619	10,140	10,382	10,389

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
2. TEST 2	NET MW OUTPUT	Oct-08	61	85	119	152	184
	NET HEAT RATE		10,863	10,243	10,214	10,077	10,043
	NET INCREMENTAL HEAT RATE		9,343	9,483	9,673	9,862	10,049

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	LEVEL 7
3. TEST 3	NET MW OUTPUT	Apr-02	60	136	150	171	188	200	201
	NET HEAT RATE		12,450	10,063	9,991	9,941	9,920	9,858	9,921
	NET INCREMENTAL HEAT RATE		7,438	8,948	9,244	9,674	10,011	10,240	10,269

CONTROL SYSTEMS	
1. DESCRIPTION OF TURBINE CONTROL SYS.	1. Analog/mechanical
2. MANUFACTURER OF TURBINE CONTROL SYS.	2. REXA
3. DATE & COST OF INSTALLATION	3. 2006 - 41,011
4. DESCRIPTION OF BOILER CONTROL SYS.	4. Digital
5. MANUFACTURER OF BOILER CONTROL SYS.	5. Foxboro
6. DATE & COST OF INSTALLATION	6. 2007 - $741,363
7. TYPE OF FAN CONTROL SYSTEM	7. inlet air vanes/mechanical controller
8. TYPE OF FEEDWATER PUMP CONTROL SYS.	8. variable speed fluid coupling/mechanical controller
9. TYPE OF SOOT BLOWER CONTROL SYS.	9. N/A
10. NUMBER OF OPERATOR CONTROL ROOMS	10. 1
11. DESCRIPTION OF HEATRATE DEVIATION SYS.	11. none
12. TYPE OF SCRUBBER CONTROL SYS.	12. N/A

NOTES: (1) GROSS HEAT RATE = TOTAL FUEL CONSUMED (Including Start-up) (in MMBtu) / GROSS ELECTRICAL OUTPUT

(2) NET HEAT RATE = TOTAL FUEL CONSUMED (MMBtu) / GROSS ELECTRICAL OUTPUT - STATION SERVICE

Indicate whether Station Service includes consumption for Common Facilities.

Southwestern Public Service Company

Generating Unit Efficiency and Control Systems

CUNNINGHAM UNIT #1

CATEGORY	DESCRIPTION / RESPONSE
INITIAL DESIGN EFFICIENCIES	
1. BOILER EFFICIENCY/STEAM CONDITIONS	1. Control - 84.10% / 950F; 1250PSIG Throttle
2. TURBINE EFFICIENCY/STEAM CONDITIONS	2. Turbine - 82.90% / 950F; 1250PSIG Throttle
3. GENERATOR EFFICIENCY/MW:MVAR	3. Mech loss-0.350 MW; Elec loss-0.730 MW/75MW; 46MVAR
4. CONDENSER CONDITIONS/COOLING WTR	4. 1.5" mercury absolute / 80F cooling water inlet
5. GROSS HEAT RATE (1)	5. 10491 BTU/KWH
6. ORIGINAL STATION LOAD	6. 3.5 MW
7. NET HEAT RATE (2)	7. 10928 BTU/KWH
8. HEAT RATE CURVE/EQUATION	8. Gross MW/Gross HR: 20.0/12128; 38.7/10938; 54.7/10612; 70.4/10491
"PROMOD" TYPE DATA	
1. STARTUP Btus	190 MMBTU
2. MINIMUM MW / TOTAL Btus	31.0 / 371
3. MINIMUM MW / INCREMENTAL Btus PER MWh	31.0 / 10.004
4. 1ST STEP MW / INCREMENTAL Btus PER MWh	37.7 / 10.274
5. 2ND STEP MW / INCREMENTAL Btus PER MWh	44.3 / 10.543
6. 3RD STEP MW / INCREMENTAL Btus PER MWh	51.0 / 10.813
7. 4TH STEP MW / INCREMENTAL Btus PER MWh	57.7 / 11.082
8. 5TH STEP MW / INCREMENTAL Btus PER MWh	64.3 / 11.351
9. 6TH STEP MW / INCREMENTAL Btus PER MWh	71.0 / 11.621

THREE MOST RECENT HEAT RATE TESTS

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
1. TEST 1	NET MW OUTPUT	Oct-14	27	36	45	55	72
	NET HEAT RATE		12,225	11,748	11,472	11,248	11,331
	NET INCREMENTAL HEAT RATE		9,829	10,222	10,582	10,973	11,681

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
2. TEST 2	NET MW OUTPUT	Apr-10	28	38	47	57	72
	NET HEAT RATE		12,193	11,536	11,409	11,268	11,450
	NET INCREMENTAL HEAT RATE		9,475	10,135	10,795	11,471	12,468

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	LEVEL 7
3. TEST 3	NET MW OUTPUT	Feb-04	25	34	44	55	59	72	79
	NET HEAT RATE		12,091	11,601	11,322	11,149	11,106	11,020	10,995
	NET INCREMENTAL HEAT RATE		10,261	10,344	10,434	10,535	10,574	10,692	10,752

CONTROL SYSTEMS	
1. DESCRIPTION OF TURBINE CONTROL SYS.	1. Analog/mechanical
2. MANUFACTURER OF TURBINE CONTROL SYS.	2. REXA
3. DATE & COST OF INSTALLATION	3. 2010 - $45,269
4. DESCRIPTION OF BOILER CONTROL SYS.	4. Digital
5. MANUFACTURER OF BOILER CONTROL SYS.	5. Foxboro
6. DATE & COST OF INSTALLATION	6. 2010 - $367,425
7. TYPE OF FAN CONTROL SYSTEM	7. inlet air vanes/mechanical controller
8. TYPE OF FEEDWATER PUMP CONTROL SYS.	8. variable speed fluid coupling/mechanical controller
9. TYPE OF SOOT BLOWER CONTROL SYS.	9. N/A
10. NUMBER OF OPERATOR CONTROL ROOMS	10. 1
11. DESCRIPTION OF HEATRATE DEVIATION SYS.	11. deviation calcs performed automatically by data acquisition system
12. TYPE OF SCRUBBER CONTROL SYS.	12. N/A

NOTES: (1) GROSS HEAT RATE = TOTAL FUEL CONSUMED (Including Start-up) (in MMBtu) / GROSS ELECTRICAL OUTPUT

(2) NET HEAT RATE = TOTAL FUEL CONSUMED (MMBtu) / GROSS ELECTRICAL OUTPUT - STATION SERVICE

Indicate whether Station Service includes consumption for Common Facilities.

Southwestern Public Service Company

Generating Unit Efficiency and Control Systems

CUNNINGHAM UNIT #2

CATEGORY	DESCRIPTION / RESPONSE
INITIAL DESIGN EFFICIENCIES	
1. BOILER EFFICIENCY/STEAM CONDITIONS	1. MCR-84.51% / 1000F; 1965PSIG throttle; 1000F Hot Reheat Control - 85.28% / 1000F; 1850PSIG Throttle; 1000F Hot Reheat
2. TURBINE EFFICIENCY/STEAM CONDITIONS	2. HP-83.21%; IP-86.72%; LP-86.75% / 1000F; 1800 PSIG Throttle; 1000F HRH
3. GENERATOR EFFICIENCY/MW:MVAR	3. Mech loss-0.630 MW; Elec loss-2.098 MW/190MW; 118MVAR
4. CONDENSER CONDITIONS/COOLING WTR	4. 2" mercury absolute / 80F cooling water inlet
5. GROSS HEAT RATE (1)	5. 9395 BTU/KWH
6. ORIGINAL STATION LOAD	6. 7.2 MW
7. NET HEAT RATE (2)	7. 9786 BTU/KWH
8. HEAT RATE CURVE/EQUATION	8. Gross MW/Gross HR: 45.0/10895; 90.0/ 9846; 135.0/9478; 180.0/9386;
"PROMOD" TYPE DATA	
1. STARTUP Btus	550 MMBTU
2. MINIMUM MW / TOTAL Btus	59.0 / 655
3. MINIMUM MW / INCREMENTAL Btus PER MWh	59.0 / 9.394
4. 1ST STEP MW / INCREMENTAL Btus PER MWh	79.7 / 9.511
5. 2ND STEP MW / INCREMENTAL Btus PER MWh	100.3 / 9.629
6. 3RD STEP MW / INCREMENTAL Btus PER MWh	121.0 / 9.746
7. 4TH STEP MW / INCREMENTAL Btus PER MWh	141.7 / 9.863
8. 5TH STEP MW / INCREMENTAL Btus PER MWh	162.3 / 9.981
9. 6TH STEP MW / INCREMENTAL Btus PER MWh	183.0 / 10.098

THREE MOST RECENT HEAT RATE TESTS

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
1. TEST 1	NET MW OUTPUT	Apr-12	64	93	121	158	192
	NET HEAT RATE		11,029	10,457	10,305	10,259	10,164
	NET INCREMENTAL HEAT RATE		9,422	9,587	9,743	9,955	10,147

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
2. TEST 2	NET MW OUTPUT	Jan-04	66	95	121	164	199
	NET HEAT RATE		10,828	10,264	10,063	9,973	10,008
	NET INCREMENTAL HEAT RATE		8,830	9,170	9,471	9,976	10,378

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	LEVEL 7
3. TEST 3	NET MW OUTPUT	Dec-83	101	112	123	135	142	152	163
	NET HEAT RATE		10,413	10,306	10,227	10,167	10,137	10,107	10,085
	NET INCREMENTAL HEAT RATE		9,287	9,378	9,471	9,571	9,638	9,730	9,833

		DATE	LEVEL 8	LEVEL 9	LEVEL 10
TEST 3 CONTINUED	NET MW OUTPUT	Dec-83	171	182	191
	NET HEAT RATE		10,074	10,068	10,069
	NET INCREMENTAL HEAT RATE		9,920	10,027	10,121

CONTROL SYSTEMS

1. DESCRIPTION OF TURBINE CONTROL SYS.	1. Analog/mechanical
2. MANUFACTURER OF TURBINE CONTROL SYS.	2. REXA
3. DATE & COST OF INSTALLATION	3. 2007 - $42,037
4. DESCRIPTION OF BOILER CONTROL SYS.	4. Digital
5. MANUFACTURER OF BOILER CONTROL SYS.	5. Foxboro
6. DATE & COST OF INSTALLATION	6. 2007 - $529,431
7. TYPE OF FAN CONTROL SYSTEM	7. inlet air vanes/mechanical controller
8. TYPE OF FEEDWATER PUMP CONTROL SYS.	8. variable speed fluid coupling/mechanical controller
9. TYPE OF SOOT BLOWER CONTROL SYS.	9. N/A
10. NUMBER OF OPERATOR CONTROL ROOMS	10. 1
11. DESCRIPTION OF HEATRATE DEVIATION SYS.	11. deviation calcs performed automatically by data acquisition system
12. TYPE OF SCRUBBER CONTROL SYS.	12. N/A

NOTES: (1) GROSS HEAT RATE = $\frac{\text{TOTAL FUEL CONSUMED (Including Start-up) (in MMBtu)}}{\text{GROSS ELECTRICAL OUTPUT}}$

(2) NET HEAT RATE = $\frac{\text{TOTAL FUEL CONSUMED (MMBtu)}}{\text{GROSS ELECTRICAL OUTPUT - STATION SERVICE}}$

Indicate whether Station Service includes consumption for Common Facilities.

Southwestern Public Service Company

Generating Unit Efficiency and Control Systems

CUNNINGHAM UNIT #3

CATEGORY	DESCRIPTION / RESPONSE
INITIAL DESIGN EFFICIENCIES	
1. BOILER EFFICIENCY/STEAM CONDITIONS	1. N/A
2. TURBINE EFFICIENCY/STEAM CONDITIONS	2. N/A
3. GENERATOR EFFICIENCY/MW:MVAR	3. Mech loss-0.089 MW; Elec loss-2.28 MW/127MW; 61MVAR
4. CONDENSER CONDITIONS/COOLING WTR	4. N/A
5. GROSS HEAT RATE (1)	5. 11261 BTU/KWH HHV
6. ORIGINAL STATION LOAD	6. 0.166 MW
7. NET HEAT RATE (2)	7. 11280 BTU/KWH
8. HEAT RATE CURVE/EQUATION	8. Gross MW/Gross HR: 99.3 / 11261
"PROMOD" TYPE DATA	
1. STARTUP Btus	111 MMBTU
2. MINIMUM MW / TOTAL Btus	87.0 / 1014
3. MINIMUM MW / INCREMENTAL Btus PER MWh	87.0 / 9.571
4. 1ST STEP MW / INCREMENTAL Btus PER MWh	90.2 / 9.761
5. 2ND STEP MW / INCREMENTAL Btus PER MWh	93.3 / 9.951
6. 3RD STEP MW / INCREMENTAL Btus PER MWh	96.5 / 10.141
7. 4TH STEP MW / INCREMENTAL Btus PER MWh	99.7 / 10.331
8. 5TH STEP MW / INCREMENTAL Btus PER MWh	102.8 / 10.521
9. 6TH STEP MW / INCREMENTAL Btus PER MWh	106.0 / 10.711

THREE MOST RECENT HEAT RATE TESTS

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
1. TEST 1 (Summer)	NET MW OUTPUT	Jun-17	77	88	96	93	103
	NET HEAT RATE		12,348	11,948	11,709	11,764	11546
	NET INCREMENTAL HEAT RATE		9,036	9,094	9,133	9,120	9168

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
2. TEST 2	NET MW OUTPUT	Jun-11	71	75	85	91
	NET HEAT RATE		12,279	12,026	11,736	11,567
	NET INCREMENTAL HEAT RATE		8,588	8,831	9,449	9,790

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	LEVEL 7
3. TEST 3	NET MW OUTPUT	Aug-03	70	76	82	90	96	98	100
	NET HEAT RATE		12,609	12,287	12,029	11,761	11,606	11,561	11,520
	NET INCREMENTAL HEAT RATE		8,429	8,650	8,871	9,166	9,387	9,460	9,534

CONTROL SYSTEMS	
1. DESCRIPTION OF TURBINE CONTROL SYS.	1. Digital electro hydraulic
2. MANUFACTURER OF TURBINE CONTROL SYS.	2. Siemens T3000
3. DATE & COST OF INSTALLATION	3. 2010 - $441,708
4. DESCRIPTION OF BOILER CONTROL SYS.	4. N/A
5. MANUFACTURER OF BOILER CONTROL SYS.	5. N/A
6. DATE & COST OF INSTALLATION	6. N/A
7. TYPE OF FAN CONTROL SYSTEM	7. N/A
8. TYPE OF FEEDWATER PUMP CONTROL SYS.	8. N/A
9. TYPE OF SOOT BLOWER CONTROL SYS.	9. N/A
10. NUMBER OF OPERATOR CONTROL ROOMS	10. 1
11. DESCRIPTION OF HEATRATE DEVIATION SYS.	11. N/A
12. TYPE OF SCRUBBER CONTROL SYS.	12. N/A

NOTES: (1) GROSS HEAT RATE = TOTAL FUEL CONSUMED (Including Start-up) (in MMBtu) / GROSS ELECTRICAL OUTPUT

(2) NET HEAT RATE = TOTAL FUEL CONSUMED (MMBtu) / GROSS ELECTRICAL OUTPUT - STATION SERVICE

Indicate whether Station Service includes consumption for Common Facilities.

Southwestern Public Service Company

Generating Unit Efficiency and Control Systems

CUNNINGHAM UNIT #4

CATEGORY	DESCRIPTION / RESPONSE
INITIAL DESIGN EFFICIENCIES	
1. BOILER EFFICIENCY/STEAM CONDITIONS	1. N/A
2. TURBINE EFFICIENCY/STEAM CONDITIONS	2. N/A
3. GENERATOR EFFICIENCY/MW:MVAR	3. Mech loss-0.089 MW; Elec loss-2.28 MW/127MW; 61MVAR
4. CONDENSER CONDITIONS/COOLING WTR	4. N/A
5. GROSS HEAT RATE (1)	5. 11261 BTU/KWH HHV
6. ORIGINAL STATION LOAD	6. 0.166 MW
7. NET HEAT RATE (2)	7. 11280 BTU/KWH
8. HEAT RATE CURVE/EQUATION	8. Gross MW/Gross HR: 99.3 / 11261
"PROMOD" TYPE DATA	
1. STARTUP Btus	111 MMBTU
2. MINIMUM MW / TOTAL Btus	87.0 / 1007
3. MINIMUM MW / INCREMENTAL Btus PER MWh	87.0 / 9.792
4. 1ST STEP MW / INCREMENTAL Btus PER MWh	90.2 / 9.966
5. 2ND STEP MW / INCREMENTAL Btus PER MWh	93.3 / 10.139
6. 3RD STEP MW / INCREMENTAL Btus PER MWh	96.5 / 10.313
7. 4TH STEP MW / INCREMENTAL Btus PER MWh	99.7 / 10.486
8. 5TH STEP MW / INCREMENTAL Btus PER MWh	102.8 / 10.660
9. 6TH STEP MW / INCREMENTAL Btus PER MWh	106.0 / 10.833

THREE MOST RECENT HEAT RATE TESTS

	DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
1. TEST 1 (Summer) NET MW OUTPUT	Jul-14	65	75	83	91
NET HEAT RATE		12,400	11,898	11,704	11,493
NET INCREMENTAL HEAT RATE		8,586	9,111	9,575	10,014

	DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
2. TEST 2 NET MW OUTPUT	Jun-11	71	76	81	88
NET HEAT RATE		12,313	12,130	11,947	11,812
NET INCREMENTAL HEAT RATE		9,266	9,540	9,801	10,146

	DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	LEVEL 7
3. TEST 3 NET MW OUTPUT	Aug-03	70	78	86	88	96	98	100
NET HEAT RATE		12,489	12,166	11,912	11,857	11,664	11,621	11,581
NET INCREMENTAL HEAT RATE		9,306	9,391	9,477	9,498	9,583	9,605	9,626

CONTROL SYSTEMS	
1. DESCRIPTION OF TURBINE CONTROL SYS.	1. Digital electro hydraulic
2. MANUFACTURER OF TURBINE CONTROL SYS.	2. Siemens T3000
3. DATE & COST OF INSTALLATION	3. 2010 - $403,806
4. DESCRIPTION OF BOILER CONTROL SYS.	4. N/A
5. MANUFACTURER OF BOILER CONTROL SYS.	5. N/A
6. DATE & COST OF INSTALLATION	6. N/A
7. TYPE OF FAN CONTROL SYSTEM	7. N/A
8. TYPE OF FEEDWATER PUMP CONTROL SYS.	8. N/A
9. TYPE OF SOOT BLOWER CONTROL SYS.	9. N/A
10. NUMBER OF OPERATOR CONTROL ROOMS	10. 1
11. DESCRIPTION OF HEATRATE DEVIATION SYS.	11. N/A
12. TYPE OF SCRUBBER CONTROL SYS.	12. N/A

NOTES: (1) GROSS HEAT RATE = TOTAL FUEL CONSUMED (Including Start-up) (in MMBtu) / GROSS ELECTRICAL OUTPUT

(2) NET HEAT RATE = TOTAL FUEL CONSUMED (MMBtu) / GROSS ELECTRICAL OUTPUT - STATION SERVICE

Indicate whether Station Service includes consumption for Common Facilities.

Southwestern Public Service Company

Generating Unit Efficiency and Control Systems

JONES UNIT #1

CATEGORY	DESCRIPTION / RESPONSE
INITIAL DESIGN EFFICIENCIES	
1. BOILER EFFICIENCY/STEAM CONDITIONS	1. MCR-85.44% / 1005F; 1940PSIG throttle; 1005F Hot Reheat
2. TURBINE EFFICIENCY/STEAM CONDITIONS	2. HP-83.63%; IP-90.05%; LP-82.97% / 1000F; 1800 PSIG Throttle;
3. GENERATOR EFFICIENCY/MW:MVAR	3. Mech loss-0.833 MW; Elec loss-2.848 MW/248MW; 120MVAR
4. CONDENSER CONDITIONS/COOLING WTR	4. 2" mercury absolute / 80F cooling water inlet
5. GROSS HEAT RATE (1)	5. 9418 BTU/KWH
6. ORIGINAL STATION LOAD	6. 11.8 MW
7. NET HEAT RATE (2)	7. 9914 BTU/KWH
8. HEAT RATE CURVE/EQUATION	8. Gross MW/Gross HR: 58.9/10527; 117.8/ 9631; 235.2/ 9418; 244.6/9434;
"PROMOD" TYPE DATA	
1. STARTUP Btus	1550 MMBTU
2. MINIMUM MW / TOTAL Btus	56.0 / 667
3. MINIMUM MW / INCREMENTAL Btus PER MWh	56.0 / 8.848
4. 1ST STEP MW / INCREMENTAL Btus PER MWh	87.2 / 9.253
5. 2ND STEP MW / INCREMENTAL Btus PER MWh	118.3 / 9.659
6. 3RD STEP MW / INCREMENTAL Btus PER MWh	149.5 / 10.065
7. 4TH STEP MW / INCREMENTAL Btus PER MWh	180.7 / 10.470
8. 5TH STEP MW / INCREMENTAL Btus PER MWh	211.8 / 10.876
9. 6TH STEP MW / INCREMENTAL Btus PER MWh	243.0 / 11.282

THREE MOST RECENT HEAT RATE TESTS (3)

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6
1. TEST 1	NET MW OUTPUT	Oct-18	56	110	167	223	231	243
	NET HEAT RATE		11,782	10,530	10,385	10,336	10,401	10,412
	NET INCREMENTAL HEAT RATE		9,091	9,616	10,175	10,722	10,806	10,919

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
2. TEST 2	NET MW OUTPUT	Jul-16	56	110	168	226	243
	NET HEAT RATE		12,245	11,066	11,040	11,062	11,051
	NET INCREMENTAL HEAT RATE		9,894	10,392	10,923	11,449	11,603

			LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5		
3. TEST 3	NET MW OUTPUT	Apr-14	53	74	111	167	243		
	NET HEAT RATE		11,844	11,356	10,650	10,280	10,506		
	NET INCREMENTAL HEAT RATE		8,813	9,082	9,565	10,295	11,285		

CONTROL SYSTEMS	
1. DESCRIPTION OF TURBINE CONTROL SYS.	1. Digital Electro-Hydraulic Control
2. MANUFACTURER OF TURBINE CONTROL SYS.	2. Woodward/Foxboro
3. DATE & COST OF INSTALLATION	3. 2013 - $728,429
4. DESCRIPTION OF BOILER CONTROL SYS.	4. Digital
5. MANUFACTURER OF BOILER CONTROL SYS.	5. Foxboro
6. DATE & COST OF INSTALLATION	6. 2013 - $386,306
7. TYPE OF FAN CONTROL SYSTEM	7. variable frequency drive/digital controller
8. TYPE OF FEEDWATER PUMP CONTROL SYS.	8. variable speed fluid coupling/mechanical controller
9. TYPE OF SOOT BLOWER CONTROL SYS.	9. N/A
10. NUMBER OF OPERATOR CONTROL ROOMS	10. 1
11. DESCRIPTION OF HEATRATE DEVIATION SYS.	11. calcs performed by plant computer
12. TYPE OF SCRUBBER CONTROL SYS.	12. N/A

NOTES: (1) GROSS HEAT RATE = TOTAL FUEL CONSUMED (Including Start-up) (in MMBtu) / GROSS ELECTRICAL OUTPUT

(2) NET HEAT RATE = TOTAL FUEL CONSUMED (MMBtu) / GROSS ELECTRICAL OUTPUT - STATION SERVICE
Indicate whether Station Service includes consumption for Common Facilities.

(3) Jones 1 can be operated at 25 MW gross load off of LFC and EDC control. The unit is not dispatched between 25 MW and 54 MW. The fuel input at 25 MW gross load is 306 MMBTU/hr., and the station load is 3.67 MW.

Southwestern Public Service Company

Generating Unit Efficiency and Control Systems

JONES UNIT #2

CATEGORY	DESCRIPTION / RESPONSE
INITIAL DESIGN EFFICIENCIES	
1. BOILER EFFICIENCY/STEAM CONDITIONS	1. MCR-85.44% / 1005F; 1940PSIG throttle; 1005F Hot Reheat
2. TURBINE EFFICIENCY/STEAM CONDITIONS	2. HP-83.63%; IP-90.05%; LP-82.97% / 1000F; 1800 PSIG Throttle; 1000F HRH
3. GENERATOR EFFICIENCY/MW:MVAR	3. Mech loss-0.833 MW; Elec loss-2.848 MW/248MW; 120MVAR
4. CONDENSER CONDITIONS/COOLING WTR	4. 2" mercury absolute / 80F cooling water inlet
5. GROSS HEAT RATE (1)	5. 9418 BTU/KWH
6. ORIGINAL STATION LOAD	6. 11.8 MW
7. NET HEAT RATE (2)	7. 9914 BTU/KWH
8. HEAT RATE CURVE/EQUATION	8. Gross MW/Gross HR: 56.4/11665; 79.764/10935; 110.52/10495; 180.11/10280; 242.69/10486
"PROMOD" TYPE DATA	
1. STARTUP Btus	1550 MMBTU
2. MINIMUM MW / TOTAL Btus	56.0 / 657
3. MINIMUM MW / INCREMENTAL Btus PER MWh	56.0 / 8.771
4. 1ST STEP MW / INCREMENTAL Btus PER MWh	87.0 / 9.213
5. 2ND STEP MW / INCREMENTAL Btus PER MWh	118.0 / 9.655
6. 3RD STEP MW / INCREMENTAL Btus PER MWh	149.0 / 10.097
7. 4TH STEP MW / INCREMENTAL Btus PER MWh	180.0 / 10.539
8. 5TH STEP MW / INCREMENTAL Btus PER MWh	211.0 / 10.981
9. 6TH STEP MW / INCREMENTAL Btus PER MWh	242.0 / 11.423

THREE MOST RECENT HEAT RATE TESTS	DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
1. TEST 1 NET MW OUTPUT	May-15	56	80	111	180	243
NET HEAT RATE		11,665	10,935	10,495	10,280	10,486
NET INCREMENTAL HEAT RATE		8,776	9,109	9,548	10,540	11,433
	DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
2. TEST 2 NET MW OUTPUT	Feb-13	53	111	180	243	243
NET HEAT RATE		11,943	10,469	10,214	10,386	10,349
NET INCREMENTAL HEAT RATE		8,685	9,439	10,342	11,164	11,164
	DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
3. TEST 3 NET MW OUTPUT	Feb-05	55	111	180	244	244
NET HEAT RATE		11,943	10,469	10,214	10,386	10,349
NET INCREMENTAL HEAT RATE		8,602	9,376	10,336	11,212	11,212

CONTROL SYSTEMS	
1. DESCRIPTION OF TURBINE CONTROL SYS.	1. Digital Electro-Hydraulic Control
2. MANUFACTURER OF TURBINE CONTROL SYS.	2. Woodward/Foxboro
3. DATE & COST OF INSTALLATION	3. 2012 - $736,230
4. DESCRIPTION OF BOILER CONTROL SYS.	4. Digital
5. MANUFACTURER OF BOILER CONTROL SYS.	5. Foxboro
6. DATE & COST OF INSTALLATION	6. 2012 - $436,220
7. TYPE OF FAN CONTROL SYSTEM	7. variable frequency drive/digital controller
8. TYPE OF FEEDWATER PUMP CONTROL SYS.	8. variable speed fluid coupling/mechanical controller
9. TYPE OF SOOT BLOWER CONTROL SYS.	9. N/A
10. NUMBER OF OPERATOR CONTROL ROOMS	10. 1
11. DESCRIPTION OF HEATRATE DEVIATION SYS.	11. calcs performed by plant computer
12. TYPE OF SCRUBBER CONTROL SYS.	12. N/A

NOTES: (1) GROSS HEAT RATE = TOTAL FUEL CONSUMED (Including Start-up) (in MMBtu) / GROSS ELECTRICAL OUTPUT

(2) NET HEAT RATE = TOTAL FUEL CONSUMED (MMBtu) / GROSS ELECTRICAL OUTPUT - STATION SERVICE

Indicate whether Station Service includes consumption for Common Facilities.

Southwestern Public Service Company

Generating Unit Efficiency and Control Systems

JONES UNIT #3

CATEGORY	DESCRIPTION/RESPONSE
INITIAL DESIGN EFFICIENCIES (based on 96 deg F amb w/o evap cooler)	
1. BOILER EFFICIENCY/STEAM CONDITIONS	1. N/A
2. TURBINE EFFICIENCY/STEAM CONDITIONS	2. N/A
3. GENERATOR EFFICIENCY/MW:MVAR	3. Gen Loss 2200 KW; Exciter and Stator Loss 229 KW; 183 MW; 88MVAR
4. CONDENSER CONDITIONS/COOLING WTR	4. N/A
5. GROSS HEAT RATE (1)	5. 10006 BTU/KWH
6. ORIGINAL STATION LOAD	6. 164 MW
7. NET HEAT RATE (2)	7. 9963 BTU/KWH
8. HEAT RATE CURVE/EQUATION	8. Gross MW/Gross HR: 114/11626; 133/11450; 150/11041; 167/10999
"PROMOD" TYPE DATA	
1. STARTUP Btus	141 MMBTU
2. MINIMUM MW / TOTAL Btus	114.0 / 1267
3. MINIMUM MW / INCREMENTAL Btus PER MWh	114.0 / 11.334
4. 1ST STEP MW / INCREMENTAL Btus PER MWh	123.0 / 10.999
5. 2ND STEP MW / INCREMENTAL Btus PER MWh	132.0 / 10.795
6. 3RD STEP MW / INCREMENTAL Btus PER MWh	141.0 / 10.641
7. 4TH STEP MW / INCREMENTAL Btus PER MWh	150.0 / 10.539
8. 5TH STEP MW / INCREMENTAL Btus PER MWh	159.0 / 10.981
9. 6TH STEP MW / INCREMENTAL Btus PER MWh	168.0 / 11.423

THREE MOST RECENT HEAT RATE TESTS	DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
1. TEST 1 NET MW OUTPUT	Aug-13	112	131	148	165
NET HEAT RATE		11,336	10,993	10,800	10,639
NET INCREMENTAL HEAT RATE		8,969	9,121	9,252	9,388

	DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
2. TEST 2 NET MW OUTPUT	May-11	101	121	132	151	169
NET HEAT RATE		12,713	11,949	11,592	11,263	10,979
NET INCREMENTAL HEAT RATE		7,740	8,138	8,346	8,725	9,095

CONTROL SYSTEMS	
1. DESCRIPTION OF TURBINE CONTROL SYS.	1. Digital electro hydraulic
2. MANUFACTURER OF TURBINE CONTROL SYS.	2. Siemens T3000
3. DATE & COST OF INSTALLATION	3. 2011 - $433,326
4. DESCRIPTION OF BOILER CONTROL SYS.	4. N/A
5. MANUFACTURER OF BOILER CONTROL SYS.	5. N/A
6. DATE & COST OF INSTALLATION	6. N/A
7. TYPE OF FAN CONTROL SYSTEM	7. N/A
8. TYPE OF FEEDWATER PUMP CONTROL SYS.	8. N/A
9. TYPE OF SOOT BLOWER CONTROL SYS.	9. N/A
10. NUMBER OF OPERATOR CONTROL ROOMS	10. 1
11. DESCRIPTION OF HEATRATE DEVIATION SYS.	11. N/A
12. TYPE OF SCRUBBER CONTROL SYS.	12. N/A

NOTES: (1) GROSS HEAT RATE = TOTAL FUEL CONSUMED (Including Start-up) (in MMBtu) / GROSS ELECTRICAL OUTPUT

(2) NET HEAT RATE = TOTAL FUEL CONSUMED (MMBtu) / GROSS ELECTRICAL OUTPUT - STATION SERVICE

Indicate whether Station Service includes consumption for Common Facilities.

Southwestern Public Service Company

Generating Unit Efficiency and Control Systems

JONES UNIT #4

CATEGORY	DESCRIPTION/RESPONSE
INITIAL DESIGN EFFICIENCIES (based on 96 deg F amb w/o evap cooler)	
1. BOILER EFFICIENCY/STEAM CONDITIONS	1. N/A
2. TURBINE EFFICIENCY/STEAM CONDITIONS	2. N/A
3. GENERATOR EFFICIENCY/MW:MVAR	3. Gen Loss 2200 KW; Exciter and Stator Loss 229 KW; 183MW; 88MVA
4. CONDENSER CONDITIONS/COOLING WTR	4. N/A
5. GROSS HEAT RATE (1)	5. 9,975 BTU/KWH
6. ORIGINAL STATION LOAD	6. 177 MW
7. NET HEAT RATE (2)	7. 9,547 BTU/KWH
8. HEAT RATE CURVE/EQUATION	8. Gross MW/Gross HR: 118/11104; 135/10941; 149/10631; 167/11035
"PROMOD" TYPE DATA	
1. STARTUP Btus	141 MMBTU
2. MINIMUM MW / TOTAL Btus	116.0 / 1303
3. MINIMUM MW / INCREMENTAL Btus PER MWh	116.0 / 9.459
4. 1ST STEP MW / INCREMENTAL Btus PER MWh	125.0 / 9.519
5. 2ND STEP MW / INCREMENTAL Btus PER MWh	134.0 / 9.579
6. 3RD STEP MW / INCREMENTAL Btus PER MWh	143.0 / 9.639
7. 4TH STEP MW / INCREMENTAL Btus PER MWh	152.0 / 9.699
8. 5TH STEP MW / INCREMENTAL Btus PER MWh	161.0 / 9.758
9. 6TH STEP MW / INCREMENTAL Btus PER MWh	170.0 / 9.818

THREE MOST RECENT HEAT RATE TESTS		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
1. TEST 1	NET MW OUTPUT	Jan-15	116	136	153	171
	NET HEAT RATE		11,201	11,081	10,751	10,749
	NET INCREMENTAL HEAT RATE		9,460	9,589	9,704	9,823
		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
2. TEST 2	NET MW OUTPUT	Aug-13	122	140	156	173
	NET HEAT RATE		11,222	11,047	11,132	10,718
	NET INCREMENTAL HEAT RATE		9,100	9,341	9,548	9,771

CONTROL SYSTEMS	
1. DESCRIPTION OF TURBINE CONTROL SYS.	1. Digital electro hydraulic
2. MANUFACTURER OF TURBINE CONTROL SYS.	2. Siemens T3000
3. DATE & COST OF INSTALLATION	3. 2013 - $455,263
4. DESCRIPTION OF BOILER CONTROL SYS.	4. N/A
5. MANUFACTURER OF BOILER CONTROL SYS.	5. N/A
6. DATE & COST OF INSTALLATION	6. N/A
7. TYPE OF FAN CONTROL SYSTEM	7. N/A
8. TYPE OF FEEDWATER PUMP CONTROL SYS.	8. N/A
9. TYPE OF SOOT BLOWER CONTROL SYS.	9. N/A
10. NUMBER OF OPERATOR CONTROL ROOMS	10. 1
11. DESCRIPTION OF HEATRATE DEVIATION SYS.	11. N/A
12. TYPE OF SCRUBBER CONTROL SYS.	12. N/A

NOTES: (1) GROSS HEAT RATE = TOTAL FUEL CONSUMED (Including Start-up) (in MMBtu) / GROSS ELECTRICAL OUTPUT

(2) NET HEAT RATE = TOTAL FUEL CONSUMED (MMBtu) / GROSS ELECTRICAL OUTPUT - STATION SERVICE

Indicate whether Station Service includes consumption for Common Facilities.

Southwestern Public Service Company

Generating Unit Efficiency and Control Systems

MADDOX UNIT #1

CATEGORY	DESCRIPTION / RESPONSE
INITIAL DESIGN EFFICIENCIES	
1. BOILER EFFICIENCY/STEAM CONDITIONS	1. MCR-85.90% / 1005F; 1525PSIG throttle; 1005F Hot Reheat Control - 86.21% / 1005F; 1525PSIG Throttle; 1005F Hot Reheat
2. TURBINE EFFICIENCY/STEAM CONDITIONS	2. HP-78.51%; IP-91.09%; LP-86.44% / 1000F; 1450 PSIG Throttle; 1000F HRH
3. GENERATOR EFFICIENCY/MW:MVAR	3. Mech loss-0.787 MW; Elec loss-1.550 MW/114MW; 70MVAR
4. CONDENSER CONDITIONS/COOLING WTR	4. 2" mercury absolute / 80F cooling water inlet
5. GROSS HEAT RATE (1)	5. 9579 BTU/KWH
6. ORIGINAL STATION LOAD	6. 4.6 MW
7. NET HEAT RATE (2)	7. 9978 BTU/KWH
8. HEAT RATE CURVE/EQUATION	8. Gross MW/Gross HR: 40.0/10474; 60.0/9931; 80.0/9639; 100.0/9519;
"PROMOD" TYPE DATA	
1. STARTUP Btus	930 MMBTU
2. MINIMUM MW / TOTAL Btus	35.0 / 414
3. MINIMUM MW / INCREMENTAL Btus PER MWh	35.0 / 8.887
4. 1ST STEP MW / INCREMENTAL Btus PER MWh	47.8 / 9.189
5. 2ND STEP MW / INCREMENTAL Btus PER MWh	60.7 / 9.490
6. 3RD STEP MW / INCREMENTAL Btus PER MWh	73.5 / 9.792
7. 4TH STEP MW / INCREMENTAL Btus PER MWh	86.3 / 10.094
8. 5TH STEP MW / INCREMENTAL Btus PER MWh	99.2 / 10.395
9. 6TH STEP MW / INCREMENTAL Btus PER MWh	112.0 / 10.697

THREE MOST RECENT HEAT RATE TESTS

		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6
1. TEST 1	NET MW OUTPUT	May-16	36	51	72	108	115	121
	NET HEAT RATE		11,184	10,541	10,292	10,190	10,231	10,300
	NET INCREMENTAL HEAT RATE		8,915	9,260	9,745	10,566	10,723	10,862
		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6
2. TEST 2	NET MW OUTPUT	Apr-09	42	56	70	99	117	119
	NET HEAT RATE		11,226	10,957	10,575	10,346	10,436	10,483
	NET INCREMENTAL HEAT RATE		9,055	9,369	9,715	10,400	10,822	10,854
		DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6
3. TEST 3	NET MW OUTPUT	Mar-07	42	57	71	85	99	120
	NET HEAT RATE		10,907	10,398	10,156	9,906	10,104	10,212
	NET INCREMENTAL HEAT RATE		8,221	8,818	9,369	9,957	10,516	11,389

CONTROL SYSTEMS	
1. DESCRIPTION OF TURBINE CONTROL SYS.	1. Digital Electro-Hydraulic Control
2. MANUFACTURER OF TURBINE CONTROL SYS.	2. Woodward/Foxboro
3. DATE & COST OF INSTALLATION	3. 2013 - $1,197,148
4. DESCRIPTION OF BOILER CONTROL SYS.	4. Digital
5. MANUFACTURER OF BOILER CONTROL SYS.	5. Foxboro
6. DATE & COST OF INSTALLATION	6. 2008 - $1,473,806
7. TYPE OF FAN CONTROL SYSTEM	7. variable frequency drive/digital controller
8. TYPE OF FEEDWATER PUMP CONTROL SYS.	8. variable speed fluid coupling/mechanical controller
9. TYPE OF SOOT BLOWER CONTROL SYS.	9. N/A
10. NUMBER OF OPERATOR CONTROL ROOMS	10. 1
11. DESCRIPTION OF HEATRATE DEVIATION SYS.	11. calcs performed by plant computer
12. TYPE OF SCRUBBER CONTROL SYS.	12. N/A

NOTES: (1) GROSS HEAT RATE = TOTAL FUEL CONSUMED (Including Start-up) (in MMBtu) / GROSS ELECTRICAL OUTPUT

(2) NET HEAT RATE = TOTAL FUEL CONSUMED (MMBtu) / GROSS ELECTRICAL OUTPUT - STATION SERVICE

Indicate whether Station Service includes consumption for Common Facilities.

Southwestern Public Service Company

Generating Unit Efficiency and Control Systems

MADDOX UNIT #2

CATEGORY	DESCRIPTION / RESPONSE
INITIAL DESIGN EFFICIENCIES	
1. BOILER EFFICIENCY/STEAM CONDITIONS	1. N/A
2. TURBINE EFFICIENCY/STEAM CONDITIONS	2. N/A/ N/A
3. GENERATOR EFFICIENCY/MW:MVAR	3. N/A/87MW:42MVAR
4. CONDENSER CONDITIONS/COOLING WTR	4. N/A
5. GROSS HEAT RATE (1)	5. 12710 BTU/KWH
6. ORIGINAL STATION LOAD	6. 0
7. NET HEAT RATE (2)	7. 12710 BTU/KWH
8. HEAT RATE CURVE/EQUATION	8. Gross MW/Gross HR: 62.9/12870; 67.9/12760; 70.2/12710
"PROMOD" TYPE DATA	
1. STARTUP Btus	235 MMBTU
2. MINIMUM MW / TOTAL Btus	60.0 / 809
3. MINIMUM MW / INCREMENTAL Btus PER MWh	60.0 / 11.594
4. 1ST STEP MW / INCREMENTAL Btus PER MWh	60.2 / 11.601
5. 2ND STEP MW / INCREMENTAL Btus PER MWh	60.3 / 11.609
6. 3RD STEP MW / INCREMENTAL Btus PER MWh	60.5 / 11.616
7. 4TH STEP MW / INCREMENTAL Btus PER MWh	60.7 / 11.623
8. 5TH STEP MW / INCREMENTAL Btus PER MWh	60.8 / 11.630
9. 6TH STEP MW / INCREMENTAL Btus PER MWh	61.0 / 11.637

THREE MOST RECENT HEAT RATE TESTS	DATE	LEVEL 1	LEVEL 2	LEVEL 3
1. TEST 1 MW OUTPUT (Summer)	May-16	31	46	61
HEAT RATE		15,981	14,456	13,401
INCREMENTAL HEAT RATE		10,191	10,820	11,450
1. TEST 2 MW OUTPUT (Summer)	Jun-06	30	44	59
HEAT RATE		16,122	14,281	13,519
INCREMENTAL HEAT RATE		10,281	10,916	11,551

CONTROL SYSTEMS	
1. DESCRIPTION OF TURBINE CONTROL SYS.	1. Analog electro motor
2. MANUFACTURER OF TURBINE CONTROL SYS.	2. GE Fanuc 9070
3. DATE & COST OF INSTALLATION	3. 2007 - $93,076
4. DESCRIPTION OF BOILER CONTROL SYS.	4. N/A
5. MANUFACTURER OF BOILER CONTROL SYS.	5. N/A
6. DATE & COST OF INSTALLATION	6. N/A
7. TYPE OF FAN CONTROL SYSTEM	7. N/A
8. TYPE OF FEEDWATER PUMP CONTROL SYS.	8. N/A
9. TYPE OF SOOT BLOWER CONTROL SYS.	9. N/A
10. NUMBER OF OPERATOR CONTROL ROOMS	10. 2
11. DESCRIPTION OF HEATRATE DEVIATION SYS.	11. N/A
12. TYPE OF SCRUBBER CONTROL SYS.	12. N/A

NOTES: (1) GROSS HEAT RATE = TOTAL FUEL CONSUMED (Including Start-up) (in MMBtu) / GROSS ELECTRICAL OUTPUT

(2) NET HEAT RATE = TOTAL FUEL CONSUMED (MMBtu) / GROSS ELECTRICAL OUTPUT - STATION SERVICE

Indicate whether Station Service includes consumption for Common Facilities.

Southwestern Public Service Company

Generating Unit Efficiency and Control Systems

MADDOX UNIT #3

CATEGORY	DESCRIPTION / RESPONSE
INITIAL DESIGN EFFICIENCIES	
1. BOILER EFFICIENCY/STEAM CONDITIONS	1. N/A
2. TURBINE EFFICIENCY/STEAM CONDITIONS	2. N/A/N/A
3. GENERATOR EFFICIENCY/MW:MVAR	3. N/A/11.5MW:7.1MVAR
4. CONDENSER CONDITIONS/COOLING WTR	4. N/A
5. GROSS HEAT RATE (1)	5. N/A
6. ORIGINAL STATION LOAD	6. N/A
7. NET HEAT RATE (2)	7. N/A
8. HEAT RATE CURVE/EQUATION	8. N/A
"PROMOD" TYPE DATA	
1. STARTUP Btus	NOT DISPATCHED
2. MINIMUM MW / TOTAL Btus	
3. MINIMUM MW / INCREMENTAL Btus PER MWh	
4. 1ST STEP MW / INCREMENTAL Btus PER MWh	
5. 2ND STEP MW / INCREMENTAL Btus PER MWh	
6. 3RD STEP MW / INCREMENTAL Btus PER MWh	
7. 4TH STEP MW / INCREMENTAL Btus PER MWh	
8. 5TH STEP MW / INCREMENTAL Btus PER MWh	

THREE MOST RECENT HEAT RATE TESTS DATE LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 4 LEVEL 5

1. TEST 1 MW OUTPUT
   HEAT RATE — NOT DISPATCHED
   INCREMENTAL HEAT RATE
2. TEST 2 MW OUTPUT
   HEAT RATE
   INCREMENTAL HEAT RATE
3. TEST 3 MW OUTPUT
   HEAT RATE
   INCREMENTAL HEAT RATE

CONTROL SYSTEMS	
1. DESCRIPTION OF TURBINE CONTROL SYS.	1. Analog electro motor
2. MANUFACTURER OF TURBINE CONTROL SYS.	2. GE Fanuc 9070
3. DATE & COST OF INSTALLATION	3. 2007 - $79,627
4. DESCRIPTION OF BOILER CONTROL SYS.	4. N/A
5. MANUFACTURER OF BOILER CONTROL SYS.	5. N/A
6. DATE & COST OF INSTALLATION	6. N/A
7. TYPE OF FAN CONTROL SYSTEM	7. N/A
8. TYPE OF FEEDWATER PUMP CONTROL SYS.	8. N/A
9. TYPE OF SOOT BLOWER CONTROL SYS.	9. N/A
10. NUMBER OF OPERATOR CONTROL ROOMS	10. 2
11. DESCRIPTION OF HEATRATE DEVIATION SYS.	11. N/A
12. TYPE OF SCRUBBER CONTROL SYS.	12. N/A

NOTES: (1) GROSS HEAT RATE = TOTAL FUEL CONSUMED (Including Start-up) (in MMBtu) / GROSS ELECTRICAL OUTPUT

(2) NET HEAT RATE = TOTAL FUEL CONSUMED (MMBtu) / GROSS ELECTRICAL OUTPUT - STATION SERVICE

Indicate whether Station Service includes consumption for Common Facilities.

Southwestern Public Service Company

Generating Unit Efficiency and Control Systems

CARLSBAD GT

CATEGORY	DESCRIPTION / RESPONSE
INITIAL DESIGN EFFICIENCIES	
1. BOILER EFFICIENCY/STEAM CONDITIONS	1. N/A
2. TURBINE EFFICIENCY/STEAM CONDITIONS	2. N/A/ N/A
3. GENERATOR EFFICIENCY/MW:MVAR	3. N/A/16.3 MW:10.1MVAR
4. CONDENSER CONDITIONS/COOLING WTR	4. N/A
5. GROSS HEAT RATE (1)	5. 13460 BTU/KWH
6. ORIGINAL STATION LOAD	6. 0
7. NET HEAT RATE (2)	7. 13460 BTU/KWH
8. HEAT RATE CURVE/EQUATION	8. Gross MW/Gross HR: 14.1/13710; 15.1/13460
"PROMOD" TYPE DATA	
1. STARTUP Btus	NOT DISPATCHED
2. MINIMUM MW / TOTAL Btus	
3. MINIMUM MW / INCREMENTAL Btus PER MWh	
4. 1ST STEP MW / INCREMENTAL Btus PER MWh	
5. 2ND STEP MW / INCREMENTAL Btus PER MWh	
6. 3RD STEP MW / INCREMENTAL Btus PER MWh	
7. 4TH STEP MW / INCREMENTAL Btus PER MWh	
8. 5TH STEP MW / INCREMENTAL Btus PER MWh	

THREE MOST RECENT HEAT RATE TESTS

		DATE	LEVEL 1	LEVEL 2	LEVEL 3
1. TEST 1	MW OUTPUT	Jun-06	5	8	11
	HEAT RATE		22,483	18,730	17,028
	INCREMENTAL HEAT RATE		10,873	11,572	12,272

CONTROL SYSTEMS	
1. DESCRIPTION OF TURBINE CONTROL SYS.	1. Digital (installed for remote start capability)
2. MANUFACTURER OF TURBINE CONTROL SYS.	2. Allen Bradley
3. DATE & COST OF INSTALLATION	3. Original - NA
4. DESCRIPTION OF BOILER CONTROL SYS.	4. N/A
5. MANUFACTURER OF BOILER CONTROL SYS.	5. N/A
6. DATE & COST OF INSTALLATION	6. N/A
7. TYPE OF FAN CONTROL SYSTEM	7. N/A
8. TYPE OF FEEDWATER PUMP CONTROL SYS.	8. N/A
9. TYPE OF SOOT BLOWER CONTROL SYS.	9. N/A
10. NUMBER OF OPERATOR CONTROL ROOMS	10. 2
11. DESCRIPTION OF HEATRATE DEVIATION SYS.	11. none
12. TYPE OF SCRUBBER CONTROL SYS.	12. N/A

NOTES: (1) GROSS HEAT RATE = TOTAL FUEL CONSUMED (Including Start-up) (in MMBtu) / GROSS ELECTRICAL OUTPUT

(2) NET HEAT RATE = TOTAL FUEL CONSUMED (MMBtu) / GROSS ELECTRICAL OUTPUT - STATION SERVICE

Indicate whether Station Service includes consumption for Common Facilities.

Southwestern Public Service Company

Generating Unit Efficiency and Control Systems

QUAY COUNTY

CATEGORY	DESCRIPTION / RESPONSE
INITIAL DESIGN EFFICIENCIES	
1. BOILER EFFICIENCY/STEAM CONDITIONS	1. N/A
2. CT ENGINE EFFICIENCY	2. N/A
3. GENERATOR EFFICIENCY/MW:MVAR	3. N/A/27MW:16.7MVARS
4. CONDENSER CONDITIONS/COOLING WTR	4. N/A
5. GROSS HEAT RATE (1)	5. 14,080 BTU/KWH on gas HHV 59F
6. ORIGINAL STATION LOAD	6. 0
7. NET HEAT RATE (2)	5. 14,080 BTU/KWH on gas HHV 59F
8. HEAT RATE CURVE/EQUATION	8. N/A
"PROMOD" TYPE DATA	
1. STARTUP Btus	28 MMBTU
2. MINIMUM MW / TOTAL Btus	10.0 / 254
3. MINIMUM MW / INCREMENTAL Btus PER MWh	10.0 / 9,425
4. 1ST STEP MW / INCREMENTAL Btus PER MWh	11.5 / 9,468
5. 2ND STEP MW / INCREMENTAL Btus PER MWh	13.0 / 9,511
6. 3RD STEP MW / INCREMENTAL Btus PER MWh	14.5 / 9,554
7. 4TH STEP MW / INCREMENTAL Btus PER MWh	16.0 / 9,597
8. 5TH STEP MW / INCREMENTAL Btus PER MWh	17.5 / 9,640
9. 6TH STEP MW / INCREMENTAL Btus PER MWh	22.0 / 9,769

THREE MOST RECENT HEAT RATE TESTS	DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6
1. TEST 1 NET MW OUTPUT	Aug-13	10	14	15	18	20	22
NET HEAT RATE		24,991	21,130	19,150	19,059	17,870	16,624
INCREMENTAL HEAT RATE		9,436	9,537	9,569	9,640	9,770	9,757

CONTROL SYSTEMS	
1. DESCRIPTION OF CT ENGINE CONTROL SYS.	1. Analog electro motor
2. MANUFACTURER OF CT ENGINE CONTROL SYS.	2. GE Fanuc 9070
3. DATE & COST OF INSTALLATION	3. 1995 - $64,207
4. DESCRIPTION OF BOILER CONTROL SYS.	4. N/A
5. MANUFACTURER OF BOILER CONTROL SYS.	5. N/A
6. DATE & COST OF INSTALLATION	6. N/A
7. TYPE OF FAN CONTROL SYSTEM	7. N/A
8. TYPE OF FEEDWATER PUMP CONTROL SYS.	8. N/A
9. TYPE OF SOOT BLOWER CONTROL SYS.	9. N/A
10. NUMBER OF OPERATOR CONTROL ROOMS	10. 2
11. DESCRIPTION OF HEATRATE DEVIATION SYS.	11. N/A
12. TYPE OF SCRUBBER CONTROL SYS.	12. N/A

NOTES: (1) GROSS HEAT RATE = TOTAL FUEL CONSUMED (Including Start-up) (in MMBtu) / GROSS ELECTRICAL OUTPUT

(2) NET HEAT RATE = TOTAL FUEL CONSUMED (MMBtu) / GROSS ELECTRICAL OUTPUT - STATION SERVICE

Indicate whether Station Service includes consumption for Common Facilities.

Southwestern Public Service Company

Generating Unit Efficiency and Control Systems

MOORE COUNTY

CATEGORY	DESCRIPTION / RESPONSE
INITIAL DESIGN EFFICIENCIES	
1. BOILER EFFICIENCY/STEAM CONDITIONS	1. 83.7% /Not Available
2. TURBINE EFFICIENCY/STEAM CONDITIONS	2. HP-85.92%; LP-82.78% / 900 F; 850 PSIG Throttle
3. GENERATOR EFFICIENCY/MW:MVAR	3. Gen Loss-0.58 MW; Exciter loss-0.02 MW/40 MW; 50 MVAR
4. CONDENSER CONDITIONS/COOLING WTR	4. 2" mercury absolute / Not Available
5. GROSS HEAT RATE (1)	5. 11880 BTU/KWH
6. ORIGINAL STATION LOAD	6. 50 MW
7. NET HEAT RATE (2)	5. 11819 BTU/KWH
8. HEAT RATE CURVE/EQUATION	8. Gross MW/ Gross HR: 50.1/11229
"PROMOD" TYPE DATA	
1. STARTUP Btus	N/A
2. MINIMUM MW / TOTAL Btus	16.9 / 289
3. MINIMUM MW / INCREMENTAL Btus PER MWh	16.9 / 10.339
4. 1ST STEP MW / INCREMENTAL Btus PER MWh	28.7 / 11.986
5. 2ND STEP MW / INCREMENTAL Btus PER MWh	38.7 / 13.367
6. 3RD STEP MW / INCREMENTAL Btus PER MWh	46.5 / 14.458

THREE MOST RECENT HEAT RATE TESTS	DATE	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
1. TEST 1 NET MW OUTPUT	Aug-06	17	29	39	47
NET HEAT RATE		17,110	14,019	13,615	13,364
INCREMENTAL HEAT RATE		10,339	11,986	13,367	14,458

CONTROL SYSTEMS	
1. DESCRIPTION OF TURBINE CONTROL SYS.	1. Analog/mechanical
2. MANUFACTURER OF TURBINE CONTROL SYS.	2. GE
3. DATE & COST OF INSTALLATION	3. Original - NA
4. DESCRIPTION OF BOILER CONTROL SYS.	4. Digital
5. MANUFACTURER OF BOILER CONTROL SYS.	5. Foxboro
6. DATE & COST OF INSTALLATION	6. 2012 - $731,233
7. TYPE OF FAN CONTROL SYSTEM	7. inlet air vanes/mechanical controller
8. TYPE OF FEEDWATER PUMP CONTROL SYS.	8. variable speed fluid coupling/mechanical controller
9. TYPE OF SOOT BLOWER CONTROL SYS.	9. N/A
10. NUMBER OF OPERATOR CONTROL ROOMS	10. 1
11. DESCRIPTION OF HEATRATE DEVIATION SYS.	11. deviation calcs performed automatically by data acquisition system
12. TYPE OF SCRUBBER CONTROL SYS.	12. N/A

NOTES: (1) GROSS HEAT RATE = TOTAL FUEL CONSUMED (Including Start-up) (in MMBtu) / GROSS ELECTRICAL OUTPUT

(2) NET HEAT RATE = TOTAL FUEL CONSUMED (MMBtu) / GROSS ELECTRICAL OUTPUT - STATION SERVICE

Indicate whether Station Service includes consumption for Common Facilities.

Southwestern Public Service Company

Summary of Firm Purchased Power (Net MWh)

Line No.		QUALIFYING FACILITIES, BY COMPANY						OTHERS, BY COMPANY					FIRM
		BEA	ORN	SID[1]	TOKAI[1]	Losses	Sub Total	ONETA[2]	LPL	LPP	Losses	Sub Total	Total
	TEST YEAR (TY)												
1	October 2019	87,608	6,889		3,384		97,881			366,789		366,789	464,670
2	November 2019	130,813	7,210		1,677		139,700			239,114		239,114	378,814
3	December 2019	135,571	8,416		743		144,731		425,240	376,090		801,330	946,061
4	January 2020	132,715	7,608		800		141,123		15,470	350,652		366,122	507,246
5	February 2020	126,595	7,369		2,176		136,141		13,175	232,421		245,596	381,737
6	March 2020	128,295	6,753		2,274		137,323		31,238	262,909		294,146	431,469
7	April 2020	81,536	2,263		927		84,726		23,460	335,089		358,549	443,275
8	May 2020	126,937	4,769		866		132,572		29,750	329,859		359,609	492,182
9	June 2020	120,824	3,368		1,448		125,640		23,392	301,791		325,183	450,823
10	July 2020	131,879	-		1,979		133,858		20,296	382,474		402,770	536,628
11	August 2020	127,324	5,542		2,103		134,969		31,390	385,275		416,665	551,633
12	September 2020	120,701	3,429		951		125,081		12,298	344,313		356,611	481,691
13	**Total TY**	**1,450,799**	**63,617**	**-**	**19,329**	**-**	**1,533,745**	**-**	**625,709**	**3,906,776**	**-**	**4,532,484**	**6,066,229**
	Update Period												
14	October 2020	120,701	3,429		951		125,081		12,298	344,313		356,611	481,691
15	November 2020	120,701	3,429		951		125,081		12,298	344,313		356,611	481,691
16	December 2020	120,701	3,429		951		125,081		12,298	344,313		356,611	481,691
17	**Total Update Period**	**362,104**	**10,287**	**-**	**2,852**	**-**	**375,242**	**-**	**36,894**	**1,032,938**	**-**	**1,069,832**	**1,445,074**

Notes: As discussed in the testimony of William A. Grant, Southwestern Public Service Company ("SPS"), has not filed a fuel reconciliation with its current base rate case in accordance with the Order in Project No. 41905 and 16 Tex. Admin. Code § 25.236 ("TAC") as revised in that project. Therefore, fuel reconciliation data is not applicable. Additionally, SPS is not proposing a new fuel factor under 16 TAC § 25.237. Therefore, rate year data is not applicable.

This schedule contains estimates for the period of October 1, 2020 through December 31, 2020, referred to as the "Update Period." As discussed by Southwestern Public Service Company ("SPS") witness William A. Grant, SPS will file actual costs for the Update Period, including an updated version of this schedule, no later than the 45th day after the date of the initial filing of this rate case, as required by PURA § 36.112.

[1]Tokai took over ownership of SID January of 2019.

[2]Oneta I and Oneta II

Acronyms: BEA - Borger Energy Associates, L.P.
LPL - Lubbock Power & Light (City of Lubbock)
LPP - Lea Power Partners, LLC
ONETA - Oneta Power, LLC (formerly Calpine Energy Services, L.P.)
ORN - Orion Carbon Black
SID - Sid Richardson
TOKAI - Tokai Carbon

Southwestern Public Service Company

Firm Purchased Power Energy Costs

This schedule is not applicable. As discussed in the testimony of William A. Grant, Southwestern Public Service Company ("SPS") has not filed a fuel reconciliation with its current base rate case in accordance with the Order in Project No. 41905 and 16 Tex. Admin. Code § 25.236 ("TAC") as revised in that project. Additionally, SPS is not proposing a new fuel factor under 16 TAC § 25.237.

Southwestern Public Service Company

Summary of Firm Purchased Power Fixed Charges

Line No.		QUALIFYING FACILITIES, BY COMPANY					OTHERS, BY COMPANY				FIRM FIXED
		BEA	ORN	SID[1]	TOKAI[1]	Sub Total	ONETA[2]	LPL	LPP	Sub Total	Total
	TEST YEAR (TY)										
1	October 2019	$ 981,187			$ 18,650	$ 999,838			$ 3,806,417	$ 3,806,417	$ 4,806,254
2	Novomber 2019	981,187			9,539	990,726			3,814,991	3,814,991	4,805,717
3	December 2019	981,187			4,096	985,283			3,809,860	3,809,860	4,795,144
4	January 2020	981,187			4,409	985,596			3,807,427	3,807,427	4,793,023
5	February 2020	981,187			12,819	994,006			3,809,398	3,809,398	4,803,404
6	March 2020	981,187			12,550	993,737			3,722,083	3,722,083	4,715,820
7	April 2020	981,187			5,277	986,465			3,724,392	3,724,392	4,710,856
8	May 2020	981,187			4,772	985,959			3,699,694	3,699,694	4,685,653
9	June 2020	993,355			8,247	1,001,602			3,978,275	3,978,275	4,979,877
10	July 2020	1,000,399			10,908	1,011,307			4,189,441	4,189,441	5,200,748
11	August 2020	977,878			11,587	989,465			4,208,762	4,208,762	5,198,227
12	September 2020	943,437			5,413	948,850			4,255,286	4,255,286	5,204,137
13	**Total TY**	**$ 11,764,568**	**$ -**	**$ -**	**$ 108,268**	**$ 11,872,836**	**$ -**	**$ -**	**$ 46,826,025**	**$ 46,826,025**	**$ 58,698,861**
	Update Period										
14	October 2020	$ 977,020			$ 4,069	$ 981,089			$ 4,118,160	$ 4,118,160	$ 5,099,249
15	November 2020	977,020			5,000	982,020			4,118,000	4,118,000	5,100,020
16	December 2020	977,020			5,000	982,020			4,118,000	4,118,000	5,100,020
17	**Total Update Period**	**$ 2,931,060**	**$ -**	**$ -**	**$ 14,069**	**$ 2,945,129**	**$ -**	**$ -**	**$ 12,354,160**	**$ 12,354,160**	**$ 15,299,289**

Notes: As discussed in the testimony of William A. Grant, Southwestern Public Service Company ("SPS"), has not filed a fuel reconciliation with its current base rate case in accordance with the Order in Project No. 41905 and 16 Tex. Admin. Code § 25.236 ("TAC") as revised in that project. Therefore, fuel reconciliation data is not applicable. Additionally, SPS is not proposing a new fuel factor under 16 TAC § 25.237. Therefore, rate year data is not applicable.

This schedule contains estimates for the period of October 1, 2020 through December 31, 2020, referred to as the "Update Period." As discussed by Southwestern Public Service Company ("SPS") witness William A. Grant, SPS will file actual costs for the Update Period, including an updated version of this schedule, no later than the 45th day after the date of the initial filing of this rate case, as required by PURA § 36.112.

[1]Tokai took over ownership of SID January of 2019.

[2]Oneta I and Oneta II

October 1, 2019 through September 30, 2020 represents the Test Year.

This schedule reflects a subset of capacity-related charges and may not reconcile to testimony attachments. For all companies, this schedule reflects capacity charges. For LPP, this schedule includes capacity and dispatchability charges but includes no other capacity-related charges.

Acronyms: BEA - Borger Energy Associates, L.P.
LPL - Lubbock Power & Light (City of Lubbock)
LPP - Lea Power Partners, LLC
ONETA - Oneta Power, LLC (formerly Calpine Energy Services, L.P.)
ORN - Orion Carbon Black
SID - Sid Richardson
TOKAI - Tokai Carbon CB

Southwestern Public Service Company

Firm Purchased Power Energy Costs Per MWh

This schedule is not applicable. As discussed in the testimony of Southwestern Public Service Company ("SPS") witness William A. Grant, SPS has not filed a fuel reconciliation with its current base rate case in accordance with the Order in Project No. 41905 and 16 Tex. Admin. Code § 25.236 ("TAC") as revised in that project. Additionally, SPS is not proposing a new fuel factor under 16 TAC § 25.237.

Southwestern Public Service Company

Non-Firm Purchased Power

This schedule is not applicable. As discussed in the testimony of Southwestern Public Service Company ("SPS") witness William A. Grant, SPS has not filed a fuel reconciliation with its current base rate case in accordance with the Order in Project No. 41905 and 16 Tex. Admin. Code § 25.236 ("TAC") as revised in that project. Additionally, SPS is not proposing a new fuel factor under 16 TAC § 25.237.

Southwestern Public Service Company

Non-Firm Purchased Power Energy Costs

This schedule is not applicable. As discussed in the testimony of William A. Grant, Southwestern Public Service Company ("SPS") has not filed a fuel reconciliation with its current base rate case in accordance with the Order in Project No. 41905 and 16 Tex. Admin. Code § 25.236 ("TAC") as revised in that project. Additionally, SPS is not proposing a new fuel factor under 16 TAC § 25.237.

Southwestern Public Service Company

Non-Firm Purchased Power Energy Costs per MWh

This schedule is not applicable. As discussed in the testimony of Southwestern Public Service Company ("SPS") witness William A. Grant, SPS has not filed a fuel reconciliation with its current base rate case in accordance with the Order in Project No. 41905 and 16 Tex. Admin. Code § 25.236 ("TAC") as revised in that project. Additionally, SPS is not proposing a new fuel factor under 16 TAC § 25.237.

Southwestern Public Service Company

Summary of Line Losses and System's Own Use

Line No.		SYSTEM LOSSES (MWh) (*)													SYSTEM'S OWN USE (MWh)
		UNIT MAIN XFMRS	345 KV LINES	230 KV LINES	115 KV LINES	69 KV LINES	345/230 KV XFMRS	230/115 KV XFMRS	115/69 KV XFMRS	DIST. SUB XFMRS	DIST. PRIMARY LINES	DIST. LINE XFMRS	DIST. SECONDARY & SERVICES	SUB TOTAL	TOTAL SYSTEM USE
1	October 2019														1,191
2	November 2019														792
3	December 2019														1,098
4	January 2020														1,328
5	February 2020														1,489
6	March 2020														1,436
7	April 2020														1,323
8	May 2020														1,087
9	June 2020														847
10	July 2020														1,083
11	August 2020														1,429
12	September 2020														976
13	**TOTAL**	**N/A**	**98,780**	**377,293**	**362,499**	**63,451**	**11,192**	**64,000**	**39,802**	**93,653**	**663,738**	**127,775**	**12,362**	**1,914,545**	**14,079**

Notes: As discussed in the testimony of William A. Grant, Southwestern Public Service Company ("SPS"), has not filed a fuel reconciliation with its current base rate case in accordance with the Order in Project No. 41905 and 16 Tex. Admin. Code § 25.236 ("TAC") as revised in that project. Therefore, fuel reconciliation data is not applicable. Additionally, SPS is not proposing a new fuel factor under 16 TAC § 25.237. Therefore, rate year data is not applicable.

Total TY values represent system losses by elements based on the Loss Evaluation Study for January through December 2016. Please refer to Schedule O-6.3.

* Monthly values were not available.

Southwestern Public Service Company

Summary of Off-System Sales (Non-Firm & Firm Power)

OFF-SYSTEM NON-FIRM POWER SALES (MWh)

Line No.	Test Year (TY) Month	SPP	Total TY
1	October 2019	477,089	477,089
2	Novomber 2019	407,652	407,652
3	December 2019	575,571	575,571
4	January 2020	441,954	441,954
5	February 2020	406,135	406,135
6	March 2020	335,261	335,261
7	April 2020	402,731	402,731
8	May 2020	440,827	440,827
9	June 2020	479,324	479,324
10	July 2020	749,553	749,553
11	August 2020	747,527	747,527
12	September 2020	382,526	382,526
13	**Total TY**	**5,846,150**	**5,846,150**

Notes: As discussed in the testimony of William A. Grant, Southwestern Public Service Company ("SPS") has not filed a fuel reconciliation with its current base rate case in accordance with the Order in Project No. 41905 and 16 Tex. Admin. Code § 25.236 ("TAC") as revised in that project. Therefore, fuel reconciliation data is not applicable. Additionally, SPS is not proposing a new fuel factor under 16 TAC § 25.237. Therefore, rate year data is not applicable.

Ocotber 1, 2019 though September 30, 2020 represents the Test Year.

Acronym: SPP - Southwest Power Pool

Southwestern Public Service Company

Summary of Off-System Sales (Non-Firm & Firm Power)

OFF-SYSTEM FIRM POWER SALES (MWh)

Line No.	Test Year (TY) Month		Total TY
1	October 2019	-	-
2	Novomber 2019	-	-
3	December 2019	-	-
4	January 2020	-	-
5	February 2020	-	-
6	March 2020	-	-
7	April 2020	-	-
8	May 2020	-	-
9	June 2020	-	-
10	July 2020	-	-
11	August 2020	-	-
12	September 2020	-	-
13	**Total TY**	**-**	**-**

Notes: SPS did not have any off-system firm sales during the Test Year.

Southwestern Public Service Company

Off-System Sales Revenue (Energy Charge Component)

OFF-SYSTEM NON-FIRM SALES

Line TEST YEAR (TY)

No.	Month	SPP	Total TY
1	October 2019	$ 8,967,879	$ 8,967,879
2	Novomber 2019	10,808,304	10,808,304
3	December 2019	12,642,557	12,642,557
4	January 2020	8,387,378	8,387,378
5	February 2020	7,117,965	7,117,965
6	March 2020	5,271,682	5,271,682
7	April 2020	5,958,387	5,958,387
8	May 2020	8,506,622	8,506,622
9	June 2020	10,089,838	10,089,838
10	July 2020	17,614,238	17,614,238
11	August 2020	18,673,280	18,673,280
12	September 2020	8,415,802	8,415,802
13	**Total TY**	$ 122,453,931	$ 122,453,931

Notes:

As discussed in the testimony of William A. Grant, Southwestern Public Service Company (“SPS”) has not filed a fuel reconciliation with its current base rate case in accordance with the Order in Project No. 41905 and 16 Tex. Admin. Code § 25.236 ("TAC") as revised in that project. Therefore, fuel reconciliation data is not applicable. Additionally, SPS is not proposing a new fuel factor under 16 TAC § 25.237. Therefore, rate year data is not applicable.

The twelve months ended September 20, 2020 represents the Test Year.

Acronym: SPP - Southwest Power Pool (Integrated Market)

Southwestern Public Service Company

Off-System Sales Revenue (Energy Charge Component)

OFF-SYSTEM FIRM SALES ($)

Line No.	TEST YEAR (TY) Month			Grand Total
1	October 2019		$ -	$ -
2	Novomber 2019		-	-
3	December 2019		-	-
4	January 2020		-	-
5	February 2020		-	-
6	March 2020		-	-
7	April 2020		-	-
8	May 2020		-	-
9	June 2020		-	-
10	July 2020		-	-
11	August 2020		-	-
12	September 2020		-	-
13	**Total TY**		**$ -**	**$ -**

Note: SPS did not have any off-system firm sales during the Test Year.

Southwestern Public Service Company

Off-System Sales Revenue (Fixed Charge Component)

OFF-SYSTEM FIRM SALES ($000) - FIXED CHARGE

Line No.	TEST YEAR (TY) Month	LPL	GSEC	Total TY
1	October 2019	$ 960,000		$ 960,000
2	Novomber 2019	960,000		960,000
3	December 2019	960,000		960,000
4	January 2020	960,000		960,000
5	February 2020	960,000		960,000
6	March 2020	960,000		960,000
7	April 2020	960,000	56,000	1,016,000
8	May 2020	960,000	56,000	1,016,000
9	June 2020	960,000	278,300	1,238,300
10	July 2020	960,000	278,300	1,238,300
11	August 2020	960,000	278,300	1,238,300
12	September 2020	960,000	278,300	1,238,300
13	**Total TY**	**$ 11,520,000**	**$ 1,225,200**	**$ 12,745,200**

Notes: As discussed in the testimony of William A. Grant, Southwestern Public Service Company ("SPS") has not filed a fuel reconciliation with its current base rate case in accordance with the Order in Project No. 41905 and 16 Tex. Admin. Code § 25.236 ("TAC") as revised in that project. Therefore, fuel reconciliation data is not applicable. Additionally, SPS is not proposing a new fuel factor under 16 TAC § 25.237. Therefore, rate year data is not applicable.

Acronym: LPL - Lubbock Power & Light
GSEC - Golden Spread Electric Cooperative

Southwestern Public Service Company

Off-System Sales Revenue (Fixed Charge Component)

OFF-SYSTEM NON-FIRM SALES ($)

Line No.	TEST YEAR (TY) Month		Grand Total
1	October 2019	$ -	$ -
2	Novomber 2019	-	-
3	December 2019	-	-
4	January 2020	-	-
5	February 2020	-	-
6	March 2020	-	-
7	April 2020	-	-
8	May 2020	-	-
9	June 2020	-	-
10	July 2020	-	-
11	August 2020	-	-
12	September 2020	-	-
13	**Total TY**	**$ -**	**$ -**

Note: SPS did not have any off-system firm sales during the Test Year.

Southwestern Public Service Company

Summary of Off-System Sales Revenue (Energy Charge Per MWh)

OFF-SYSTEM NON-FIRM SALES ($0.00/ MWh)

Line No.	TEST YEAR (TY)	SPP	Average TY
1	October 2019	$ 17.48	$ 17.48
2	November 2019	25.13	25.13
3	December 2019	20.51	20.51
4	January 2020	17.99	17.99
5	February 2020	16.62	16.62
6	March 2020	14.39	14.39
7	April 2020	13.42	13.42
8	May 2020	16.28	16.28
9	June 2020	20.00	20.00
10	July 2020	22.61	22.61
11	August 2020	24.07	24.07
12	September 2020	20.37	20.37
13	**Total TY**	**$ 19.64**	**$ 19.64**

Energy only (excludes Ancillary Services)

Notes: As discussed in the testimony of William A. Grant, Southwestern Public Service Company ("SPS"), has not filed a fuel reconciliation with its current base rate case in accordance with the Order in Project No. 41905 and 16 Tex. Admin. Code § 25.236 ("TAC") as revised in that project. Therefore, fuel reconciliation data is not applicable.

October 1, 2019 through September 30, 2020 represents the Test Year.

Acronym: SPP - Southwest Power Pool

Southwestern Public Service Company

Summary of Off-System Sales Revenue (Energy Charge Per MWh)

OFF-SYSTEM FIRM POWER SALES ($0.00/MWh)

Line No.		Average TY	
	TEST YEAR (TY)		
1	October 2019	$	-
2	November 2019		-
3	December 2019		-
4	January 2020		-
5	February 2020		-
6	March 2020		-
7	April 2020		-
8	May 2020		-
9	June 2020		-
10	July 2020		-
11	August 2020		-
12	September 2020		-
13	**Total TY**	**$**	**-**

Note: SPS had no off-system firm power sales during the test year.

Southwestern Public Service Company

Summary of On-System Sales (Wholesale & Retail)

Line No.		On-System Wholesale Sales (Net MWh)			On-System Retail Sales (Net MWh)						
		Partial Service	Full Service	Total Wholesale	Texas Secondary	Texas Primary	Texas Sub-Trans	Texas Transmission	Total Texas	Total New Mexico	Total System
	Test Year										
1	October 2019	-	182,374	182,374	397,503	172,128	93,577	457,927	1,121,134	578,307	1,881,815
2	November 2019	-	234,318	234,318	411,655	161,883	94,095	437,494	1,105,127	579,254	1,918,699
3	December 2019	-	196,378	196,378	427,513	168,131	99,773	461,630	1,157,048	610,809	1,964,234
4	January 2020	-	184,029	184,029	417,635	168,890	98,868	461,946	1,147,339	621,281	1,952,650
5	February 2020	-	172,373	172,373	385,518	158,981	90,452	425,923	1,060,874	580,834	1,814,081
6	March 2020	-	185,875	185,875	355,999	166,237	95,393	448,361	1,065,991	591,397	1,843,264
7	April 2020	-	172,924	172,924	344,028	146,904	79,044	393,420	963,395	543,878	1,680,197
8	May 2020	-	170,878	170,878	432,105	141,207	69,772	399,195	1,042,279	559,061	1,772,218
9	June 2020	-	195,161	195,161	518,799	144,192	81,998	402,569	1,147,558	611,157	1,953,876
10	July 2020	-	181,077	181,077	617,406	159,461	87,523	437,029	1,301,420	671,737	2,154,233
11	August 2020	-	188,558	188,558	583,658	160,632	89,101	437,975	1,271,366	671,536	2,131,459
12	September 2020	-	147,156	147,156	440,112	152,412	86,541	412,042	1,091,106	606,803	1,845,065
13	**Total Test Year**	-	**2,211,101**	**2,211,101**	**5,331,931**	**1,901,058**	**1,066,135**	**5,175,513**	**13,474,637**	**7,226,054**	**22,911,792**
	Update Period - Estimated Data										
14	October 2020	-	140,011	140,011	396,287	156,736	89,906	417,902	1,060,831	591,384	1,792,226
15	November 2020	-	128,076	128,076	384,137	144,903	86,974	411,865	1,027,878	573,081	1,729,035
16	December 2020	-	181,899	181,899	474,153	173,626	93,037	429,677	1,170,492	629,882	1,982,274
17	**Update Period Total (Est)**	-	449,986	449,986	1,254,576	475,264	269,917	1,259,445	3,259,202	1,794,347	5,503,535

Notes: Both Wholesale and Retail sales are presented in the production month at the meter.

Southwestern Public Service Company

Monthly Minimum and Peak Demand

Line No.	Month	2016 Minimum Load (MW)	2016 Peak Load (MW)	2017 Minimum Load (MW)	2017 Peak Load (MW)	2018 Minimum Load (MW)	2018 Peak Load (MW)	2019 Minimum Load (MW)	2019 Peak Load (MW)	2020 Minimum Load (MW)	2020 Peak Load (MW)
1	January	2,460	3,693	2,538	3,884	2,641	3,705	2,730	3,614	2,563	3,406
2	February	2,356	3,678	2,378	3,660	2,477	3,443	2,665	3,638	2,565	3,412
3	March	2,364	3,161	2,367	3,553	2,441	3,187	2,507	3,727	2,564	3,093
4	April	2,310	3,447	2,381	3,430	2,499	3,394	2,535	3,471	2,555	3,053
5	May	2,316	3,606	2,415	3,999	2,553	4,344	2,481	3,607	2,557	3,367
6	June	2,342	4,593	2,415	4,350	2,517	4,447	2,398	3,944	2,546	3,746
7	July	2,749	4,836	2,567	4,374	2,753	4,648	2,646	4,223	2,540	4,023
8	August	2,476	4,663	2,519	3,976	2,730	4,391	2,831	4,261	2,549	4,118
9	September	2,333	4,167	2,370	4,121	2,467	3,950	2,387	4,146	2,557	3,829
10	October	2,350	3,690	2,303	3,337	2,447	3,863	2,303	3,430	2,565	3,310
11	November	2,342	3,487	2,450	3,195	2,621	3,571	2,487	3,413		4,293
12	December	2,413	3,837	2,576	3,613	2,699	3,650	2,488	3,458		4,484
13	**Annual Min/Max**	**2,310**	**4,836**	**2,303**	**4,374**	**2,441**	**4,648**	**2,303**	**4,261**	**2,540**	**4,484**

[1]October - December 2020 reflect forecast peak information. SPS does not forecast minimum load.

[2]This schedule contains estimates for the period of October 1, 2020 through December 31, 2020, referred to as the "Update Period." As discussed by Southwestern Public Service Company ("SPS") witness William A. Grant, SPS will file actual costs for the Update Period, including an updated version of this schedule, no later than the 45th day after the date of the initial filing of this rate case, as required by PURA § 36.112.

Southwestern Public Service Company

Monthly Minimum and Peak Demand

2021 TX Rate Case

APPLICATION OF
SOUTHWESTERN PUBLIC SERVICE COMPANY
FOR AUTHORITY TO CHANGE RATES

Schedule H-12.6b(V)

Southwestern Public Service Company

Annual Load Duration Curve

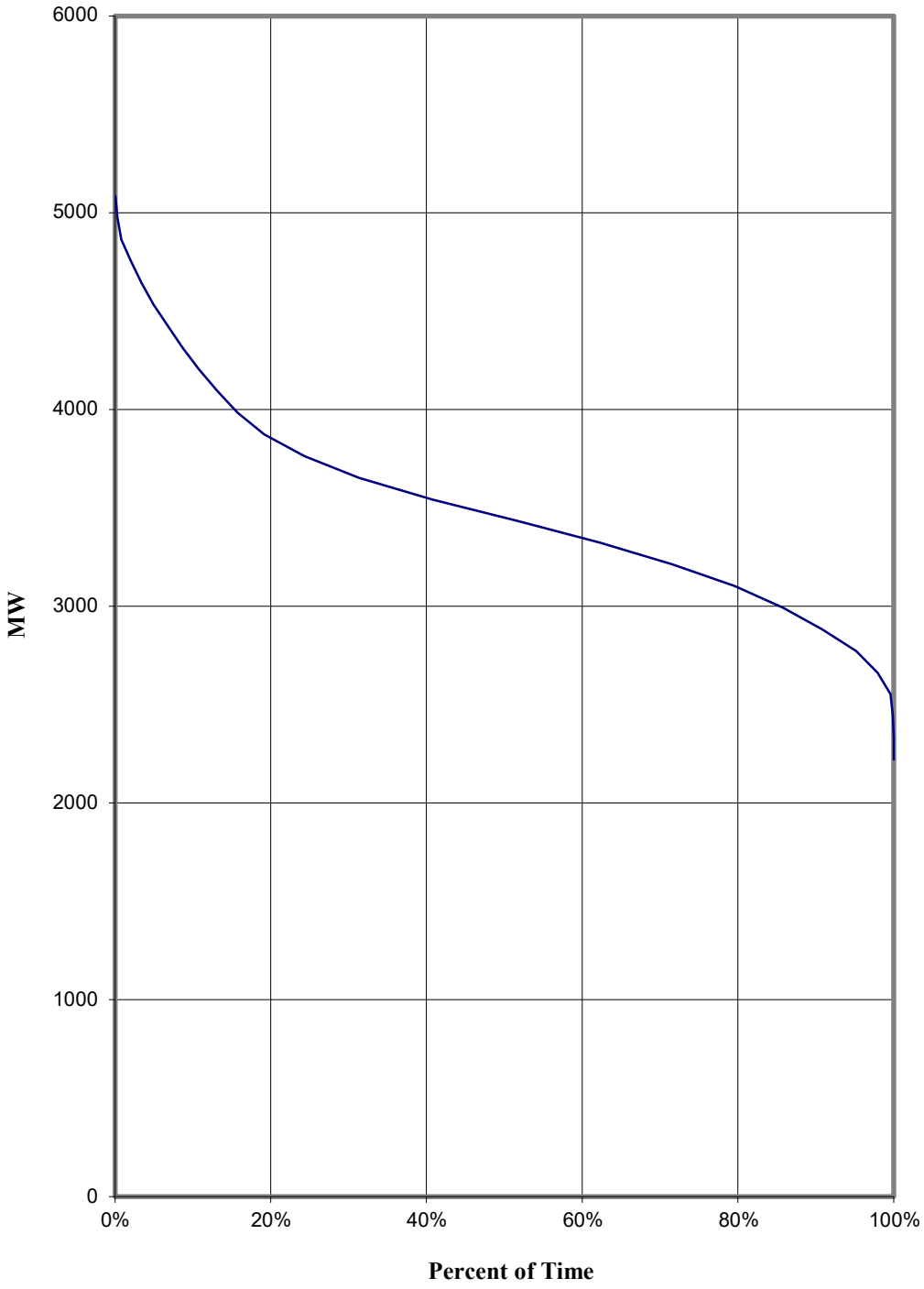
2010 Annual Load Duration

Line No.						
1	**Total MWH =**	**30,238,461**	**Max =**	**5084.815**	**Interval =**	**110.1**
2	**Hours =**	**8760**	**Min =**	**2331.953**	**Load Fact =**	**67.89%**

	Y					X
	Load	**Count Hrs**	**Hrs Times Load**	**Accum Load**	**% Total Load**	**% Time**
3	5084.8	4	20339.3	20339.3	0.07%	0.05%
4	4974.7	24	119393.2	139732.4	0.46%	0.32%
5	4864.6	44	214043.1	353775.5	1.17%	0.82%
6	4754.5	106	503978.6	857754.1	2.84%	2.03%
7	4644.4	119	552685.4	1410439.5	4.66%	3.39%
8	4534.3	135	612132.5	2022572.0	6.69%	4.93%
9	4424.2	163	721147.1	2743719.1	9.07%	6.79%
10	4314.1	165	711829.0	3455548.1	11.43%	8.68%
11	4204.0	183	769334.8	4224882.9	13.97%	10.76%
12	4093.9	208	851534.4	5076417.2	16.79%	13.14%
13	3983.8	228	908309.9	5984727.1	19.79%	15.74%
14	3873.7	302	1169862.0	7154589.1	23.66%	19.19%
15	3763.6	450	1693626.8	8848215.9	29.26%	24.33%
16	3653.5	614	2243258.3	11091474.2	36.68%	31.34%
17	3543.4	823	2916230.7	14007704.9	46.32%	40.73%
18	3433.3	960	3295982.5	17303687.4	57.22%	51.69%
19	3323.2	927	3080620.4	20384307.9	67.41%	62.27%
20	3213.1	814	2615475.7	22999783.6	76.06%	71.56%
21	3103.0	702	2178316.6	25178100.2	83.27%	79.58%
22	2992.9	544	1628145.8	26806246.1	88.65%	85.79%
23	2882.8	444	1279969.9	28086216.0	92.88%	90.86%
24	2772.7	381	1056404.5	29142620.5	96.38%	95.21%
25	2662.6	241	641690.3	29784310.7	98.50%	97.96%
26	2552.5	146	372667.2	30156977.9	99.73%	99.62%
27	2442.4	26	63502.8	30220480.7	99.94%	99.92%
28	2332.3	7	16326.2	30236806.9	99.99%	100.00%
29	2222.2	0	0.0	30236806.9	99.99%	100.00%

Southwestern Public Service Company

2010 Annual Load Duration Curve



Southwestern Public Service Company

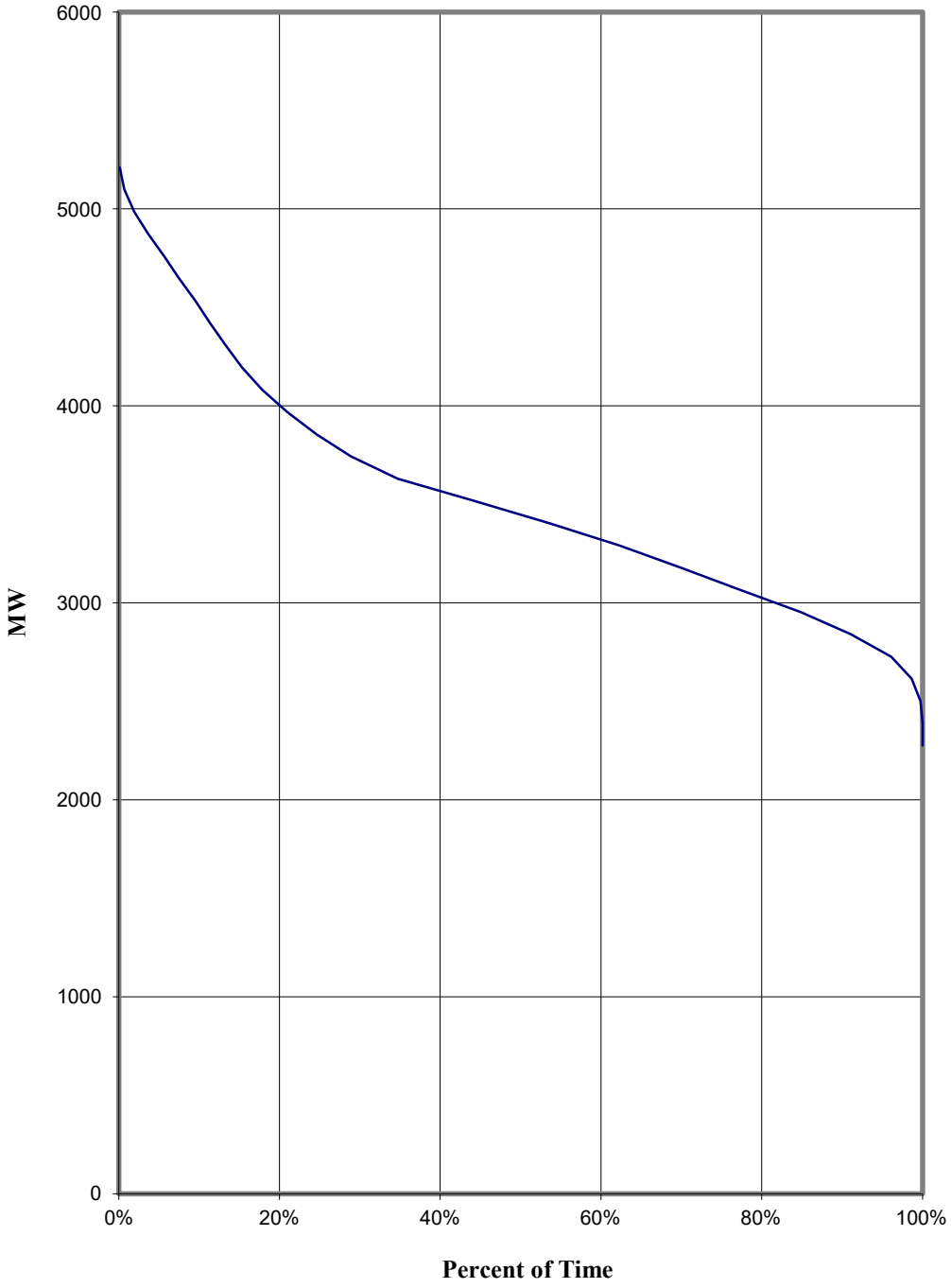
Annual Load Duration Curve

2011 Annual Load Duration

Line No.						
1	**Total MWh =**	**30,549,716**	**Max = 5210.493**	**Interval =**	**112.9**	
2	**Hours =**	**8760**	**Min = 2387.916**	**Load Factor =**	**66.93%**	
	Y					**X**
	Load	**Count Hrs**	**Hrs Times Load**	**Accum Load**	**% Total Load**	**% Time**
3	5210.5	9	46894.4	46894.4	0.15%	0.10%
4	5097.6	52	265074.9	311969.3	1.02%	0.70%
5	4984.7	108	538346.9	850316.2	2.78%	1.93%
6	4871.8	153	745384.4	1595700.6	5.22%	3.68%
7	4758.9	174	828047.5	2423748.0	7.93%	5.66%
8	4646.0	162	752650.9	3176399.0	10.40%	7.51%
9	4533.1	178	806890.6	3983289.6	13.04%	9.54%
10	4420.2	159	702810.8	4686100.4	15.34%	11.36%
11	4307.3	169	727932.6	5414033.0	17.72%	13.29%
12	4194.4	178	746602.0	6160635.0	20.17%	15.32%
13	4081.5	221	902010.1	7062645.1	23.12%	17.84%
14	3968.6	271	1075488.8	8138133.9	26.64%	20.94%
15	3855.7	322	1241533.3	9379667.2	30.70%	24.61%
16	3742.8	374	1399804.7	10779471.9	35.29%	28.88%
17	3629.9	512	1858505.4	12637977.4	41.37%	34.73%
18	3517.0	830	2919104.6	15557081.9	50.92%	44.20%
19	3404.1	822	2798164.8	18355246.7	60.08%	53.58%
20	3291.2	758	2494724.6	20849971.4	68.25%	62.24%
21	3178.3	676	2148526.4	22998497.7	75.28%	69.95%
22	3065.4	642	1967982.6	24966480.3	81.72%	77.28%
23	2952.5	667	1969313.1	26935793.4	88.17%	84.90%
24	2839.6	542	1539059.6	28474853.1	93.21%	91.08%
25	2726.7	439	1197018.4	29671871.5	97.13%	96.10%
26	2613.8	227	593331.1	30265202.6	99.07%	98.69%
27	2500.9	95	237584.9	30502787.5	99.85%	99.77%
28	2388.0	20	47759.9	30550547.4	100.00%	100.00%
29	2275.1	0	0.0	30550547.4	100.00%	100.00%

Southwestern Public Service Company

2011 Load Duration Curve



Southwestern Public Service Company

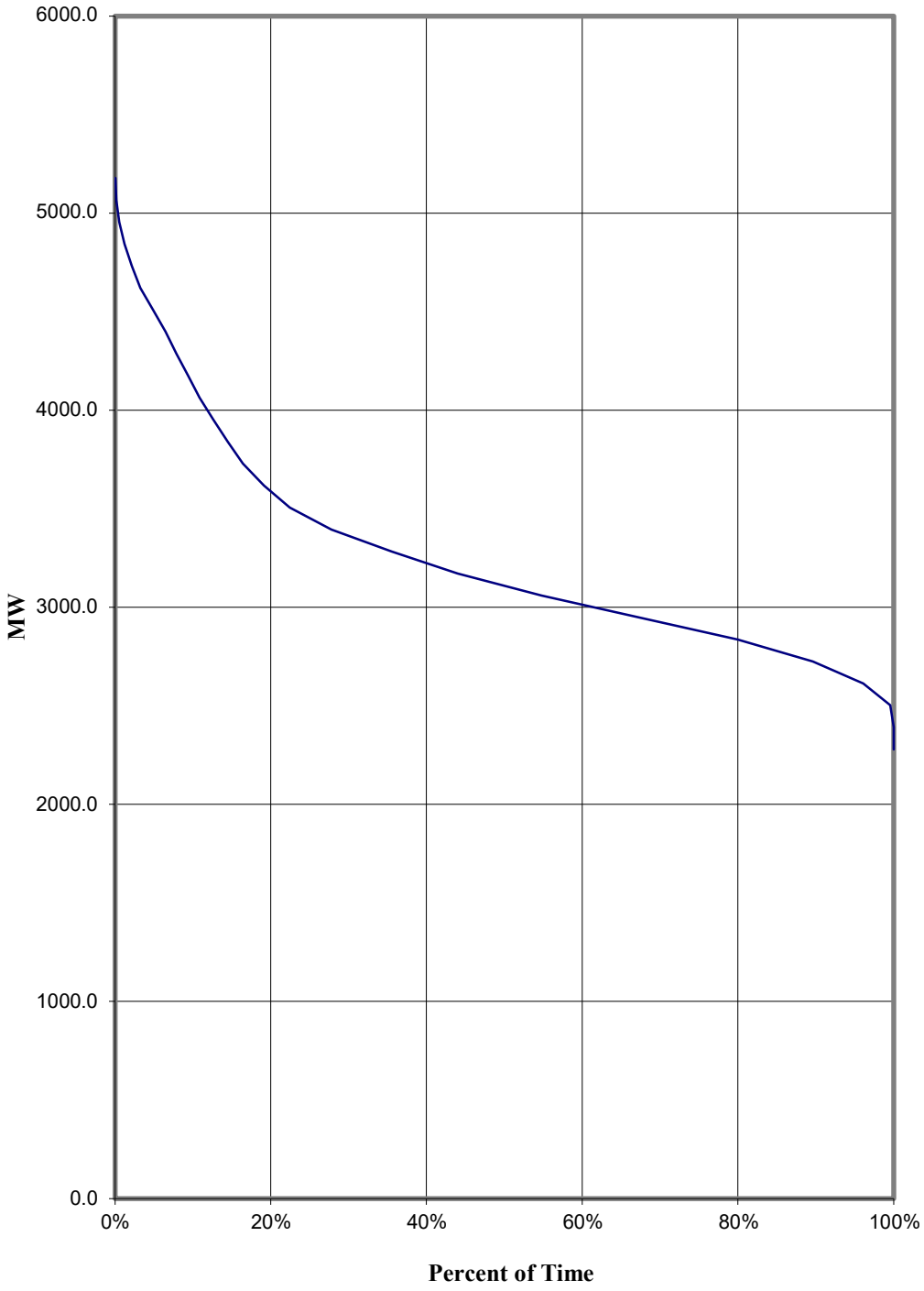
Annual Load Duration Curve

Annual 2012 Load Duration

Line No.							
1	**Total MWh =**	**28,120,436**	**Max =**	**5178.332**	**Interval =**	**111.5**	
2	**Hours =**	**8784**	**Min =**	**2389.842**	**Load Factor =**	**61.82%**	
	Y						**X**
	Load	**Count Hrs**	**Hrs Times Load**		**Accum Load**	**% Total Load**	**% Time**
3	5178.3	3	15535.0		15535.0	0.06%	0.03%
4	5066.8	13	65868.8		81403.8	0.29%	0.18%
5	4955.3	30	148660.0		230063.8	0.82%	0.52%
6	4843.8	61	295473.8		525537.5	1.87%	1.22%
7	4732.3	83	392783.6		918321.1	3.27%	2.16%
8	4620.8	95	438979.0		1357300.1	4.83%	3.24%
9	4509.3	143	644834.5		2002134.6	7.12%	4.87%
10	4397.8	142	624492.1		2626626.7	9.34%	6.49%
11	4286.3	122	522932.5		3149559.2	11.20%	7.88%
12	4174.8	133	555252.7		3704811.9	13.17%	9.39%
13	4063.3	129	524169.8		4228981.7	15.04%	10.86%
14	3951.8	156	616485.8		4845467.5	17.23%	12.64%
15	3840.3	161	618293.5		5463761.0	19.43%	14.47%
16	3728.8	172	641359.1		6105120.1	21.71%	16.43%
17	3617.3	237	857307.7		6962427.8	24.76%	19.13%
18	3505.8	291	1020197.1		7982624.9	28.39%	22.44%
19	3394.3	469	1591941.7		9574566.6	34.05%	27.78%
20	3282.8	683	2242174.3		11816740.8	42.02%	35.55%
21	3171.3	743	2356299.7		14173040.5	50.40%	44.01%
22	3059.8	947	2897660.9		17070701.4	60.71%	54.79%
23	2948.3	1104	3254958.5		20325659.9	72.28%	67.36%
24	2836.8	1106	3137536.2		23463196.1	83.44%	79.95%
25	2725.3	850	2316532.2		25779728.3	91.68%	89.63%
26	2613.8	570	1489884.2		27269612.6	96.97%	96.12%
27	2502.3	303	758206.6		28027819.2	99.67%	99.57%
28	2390.8	38	90851.6		28118670.8	99.99%	100.00%
29	2279.3	0	0.0		28118670.8	99.99%	100.00%

Southwestern Public Service Company

2012 Annual Load Duration Curve



Southwestern Public Service Company

Annual Load Duration Curve

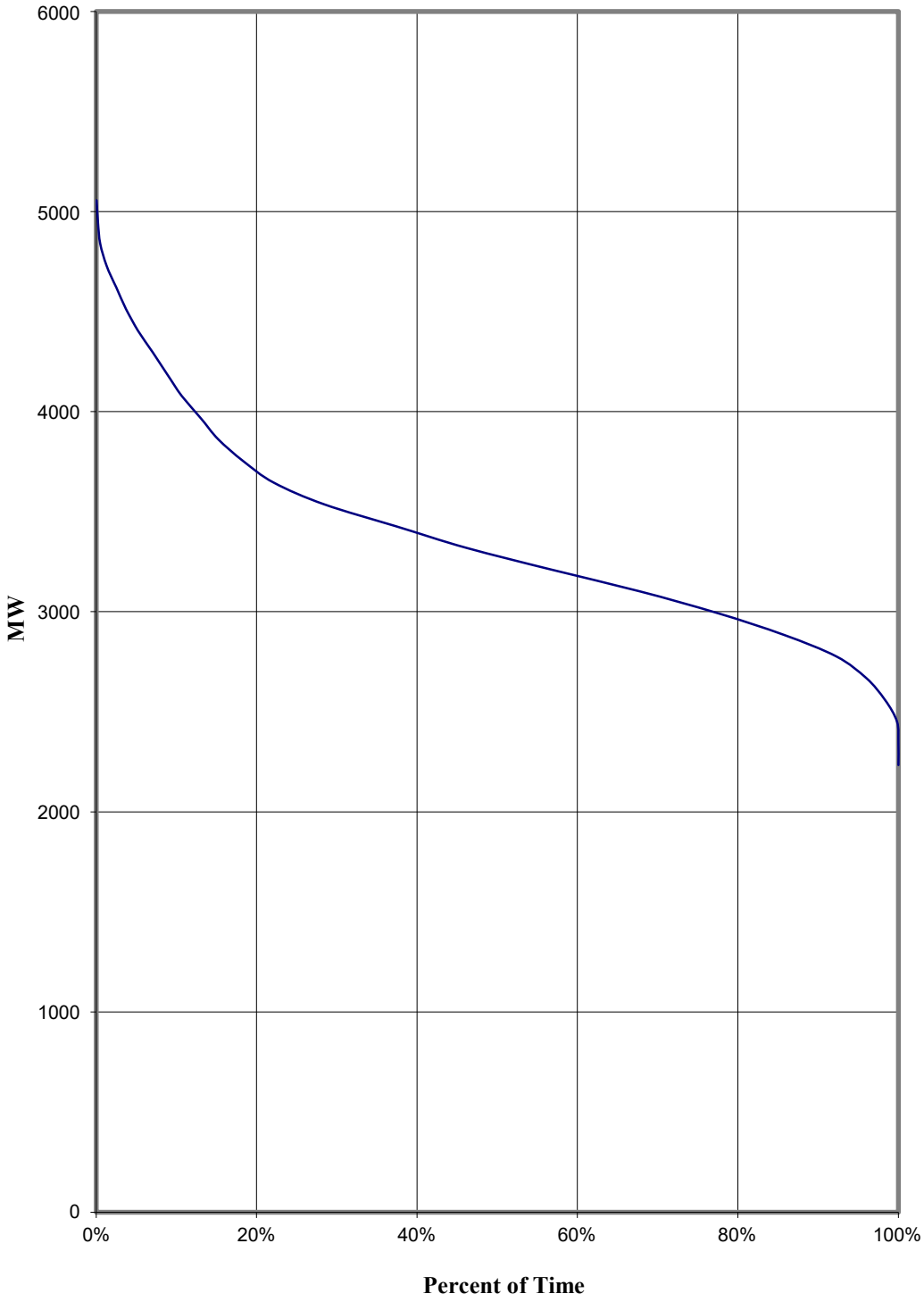
Annual 2013 Load Duration

Line No.						
1	**Total MWh =**	**29,025,910**	**Max =**	**5055.796**	**Interval =**	**108.5**
2	**Hours =**	**8760**	**Min =**	**2342.420**	**Load Factor =**	**65.54%**

	Y					X
		Count	Hrs Times	Accum	% Total	%
	Load	Hrs	Load	Load	Load	Time
3	5055.8	4	20223.2	20223.2	0.07%	0.05%
4	4947.3	14	69262.1	89485.3	0.31%	0.21%
5	4838.8	26	125808.7	215294.0	0.74%	0.50%
6	4730.3	69	326390.4	541684.4	1.87%	1.29%
7	4621.8	104	480666.8	1022351.2	3.52%	2.48%
8	4513.3	109	491949.2	1514300.4	5.22%	3.72%
9	4404.8	130	572623.4	2086923.8	7.19%	5.21%
10	4296.3	161	691703.6	2778627.4	9.57%	7.04%
11	4187.8	156	653296.1	3431923.6	11.82%	8.82%
12	4079.3	161	656766.6	4088690.2	14.09%	10.66%
13	3970.8	203	806071.5	4894761.7	16.86%	12.98%
14	3862.3	195	753147.7	5647909.3	19.46%	15.21%
15	3753.8	273	1024786.2	6672695.6	22.99%	18.32%
16	3645.3	335	1221174.1	7893869.6	27.20%	22.15%
17	3536.8	552	1952311.2	9846180.8	33.92%	28.45%
18	3428.3	778	2667214.0	12513394.9	43.11%	37.33%
19	3319.8	774	2569521.9	15082916.7	51.96%	46.16%
20	3211.3	926	2973659.8	18056576.5	62.21%	56.74%
21	3102.8	963	2987992.2	21044568.8	72.50%	67.73%
22	2994.3	850	2545151.3	23589720.1	81.27%	77.43%
23	2885.8	723	2086430.3	25676150.4	88.46%	85.68%
24	2777.3	577	1602499.6	27278650.0	93.98%	92.27%
25	2668.8	327	872696.2	28151346.1	96.99%	96.00%
26	2560.3	203	519740.0	28671086.2	98.78%	98.32%
27	2451.8	132	323637.0	28994723.2	99.89%	99.83%
28	2343.3	15	35149.4	29029872.6	100.01%	100.00%
29	2234.8	0	0.0	29029872.6	100.01%	100.00%

Southwestern Public Service Company

Annual 2013 Load Duration Curve



Southwestern Public Service Company

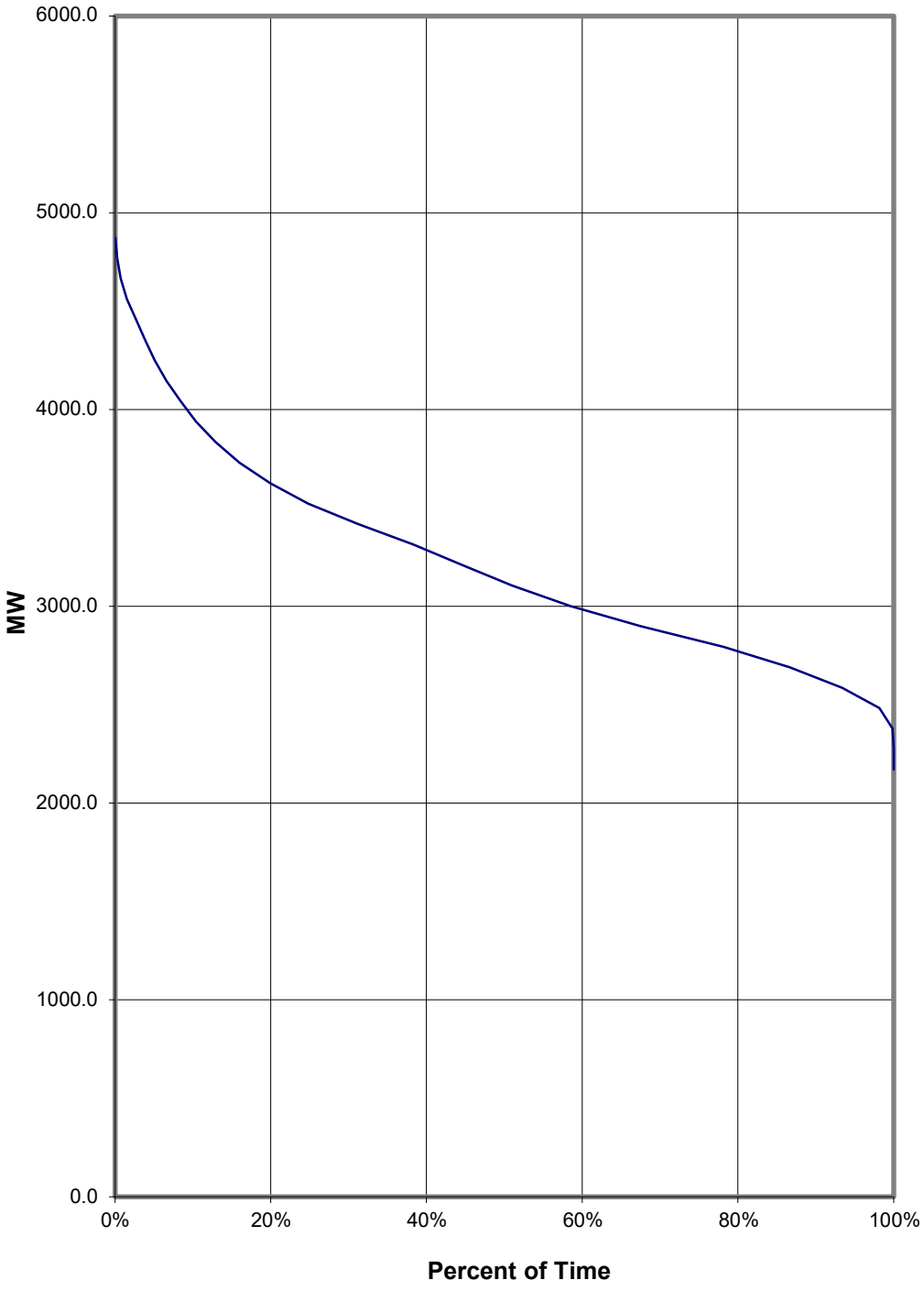
Annual Load Duration Curve

Annual 2014 Load Duration

Line No.						
1	**Total MWh =**	**27,767,852**	**Max =**	**4874.4791**	**Interval =**	**104.0**
2	**Hours =**	**8760**	**Min =**	**2274.7755**	**Load Factor =**	**65.03%**
	Y					**X**
	Load	**Count Hrs**	**Hrs Times Load**		**Accum Load**	**% Total Load**	**% Time**
3	4874.5	2	9749.0		9749.0	0.04%	0.02%
4	4770.5	21	100180.1		109929.0	0.40%	0.26%
5	4666.5	40	186659.2		296588.2	1.07%	0.72%
6	4562.5	69	314811.1		611399.2	2.20%	1.51%
7	4458.5	104	463681.8		1075081.1	3.87%	2.69%
8	4354.5	101	439802.4		1514883.5	5.46%	3.85%
9	4250.5	110	467552.7		1982436.2	7.14%	5.10%
10	4146.5	133	551481.7		2533917.9	9.13%	6.62%
11	4042.5	160	646796.7		3180714.5	11.45%	8.45%
12	3938.5	171	673479.9		3854194.5	13.88%	10.40%
13	3834.5	222	851254.4		4705448.8	16.95%	12.93%
14	3730.5	265	988577.0		5694025.8	20.51%	15.96%
15	3626.5	346	1254761.8		6948787.6	25.02%	19.91%
16	3522.5	430	1514666.0		8463453.6	30.48%	24.82%
17	3418.5	557	1904092.9		10367546.4	37.34%	31.18%
18	3314.5	624	2068235.0		12435781.4	44.78%	38.30%
19	3210.5	550	1765763.5		14201544.9	51.14%	44.58%
20	3106.5	560	1739628.3		15941173.2	57.41%	50.97%
21	3002.5	656	1969626.3		17910799.5	64.50%	58.46%
22	2898.5	796	2307189.4		20217988.8	72.81%	67.55%
23	2794.5	927	2590482.1		22808471.0	82.14%	78.13%
24	2690.5	747	2009787.9		24818258.9	89.38%	86.66%
25	2586.5	592	1531195.6		26349454.5	94.89%	93.41%
26	2482.5	418	1037676.3		27387130.8	98.63%	98.18%
27	2378.5	148	352014.9		27739145.7	99.90%	99.87%
28	2274.5	11	25019.3		27764164.9	99.99%	100.00%
29	2170.5	0	0.0		27764164.9	99.99%	100.00%

Southwestern Public Service Company

Annual 2014
Load Duration Curve



Southwestern Public Service Company

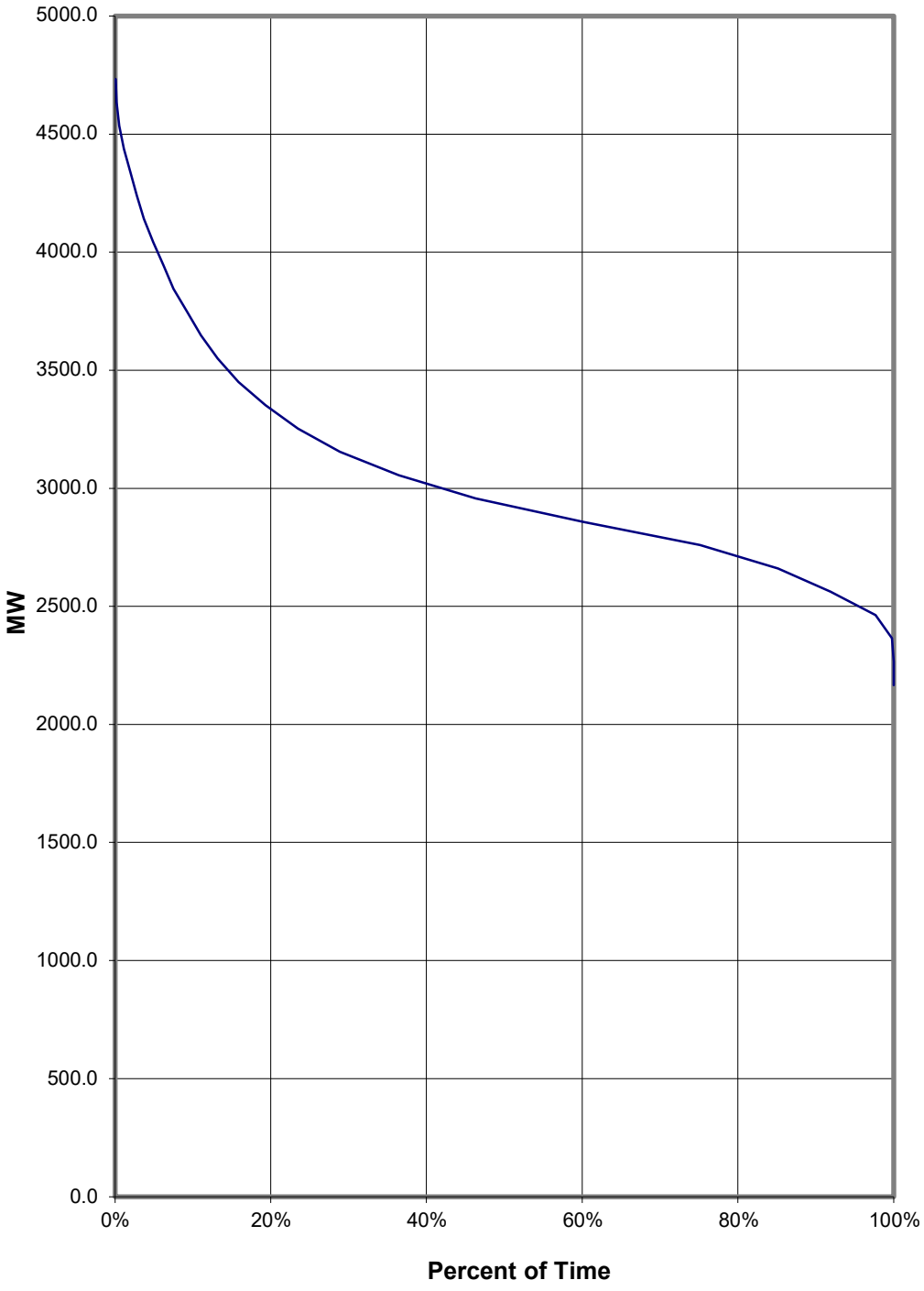
Annual Load Duration Curve

2015 Annual Load Duration

Line No.						
1	**Total MWh =**	**26,274,271**	**Max =**	**4733.493**	**Interval =**	**98.7**
2	**Hours =**	**8760**	**Min =**	**2265.597**	**Load Factor =**	**63.36%**
	Y					**X**
	Load	**Count Hrs**	**Hrs Times Load**		**Accum Load**	**% Total Load**	**% Time**
3	4733.5	5	23667.5		23667.5	0.09%	0.06%
4	4634.8	12	55617.5		79285.0	0.30%	0.19%
5	4536.1	31	140618.9		219903.9	0.84%	0.55%
6	4437.4	52	230744.4		450648.3	1.72%	1.14%
7	4338.7	72	312385.9		763034.2	2.90%	1.96%
8	4240.0	72	305279.5		1068313.7	4.07%	2.79%
9	4141.3	82	339586.0		1407899.7	5.36%	3.72%
10	4042.6	103	416387.1		1824286.8	6.94%	4.90%
11	3943.9	115	453547.7		2277834.5	8.67%	6.21%
12	3845.2	112	430661.6		2708496.1	10.31%	7.49%
13	3746.5	156	584452.9		3292949.0	12.53%	9.27%
14	3647.8	156	569055.7		3862004.7	14.70%	11.05%
15	3549.1	188	667229.5		4529234.2	17.24%	13.20%
16	3450.4	234	807392.0		5336626.2	20.31%	15.87%
17	3351.7	302	1012211.3		6348837.5	24.16%	19.32%
18	3253.0	368	1197101.4		7545938.9	28.72%	23.52%
19	3154.3	471	1485672.0		9031610.9	34.37%	28.89%
20	3055.6	661	2019747.0		11051357.9	42.06%	36.44%
21	2956.9	864	2554755.6		13606113.4	51.78%	46.30%
22	2858.2	1212	3464129.9		17070243.3	64.97%	60.14%
23	2759.5	1316	3631492.8		20701736.1	78.79%	75.16%
24	2660.8	877	2333515.5		23035251.6	87.67%	85.17%
25	2562.1	589	1509072.8		24544324.4	93.42%	91.89%
26	2463.4	507	1248940.3		25793264.6	98.17%	97.68%
27	2364.7	186	439832.9		26233097.5	99.84%	99.81%
28	2266.0	17	38521.9		26271619.4	99.99%	100.00%
29	2167.3	0	0.0		26271619.4	99.99%	100.00%

Southwestern Public Service Company

2015 Annual
Load Duration Curve



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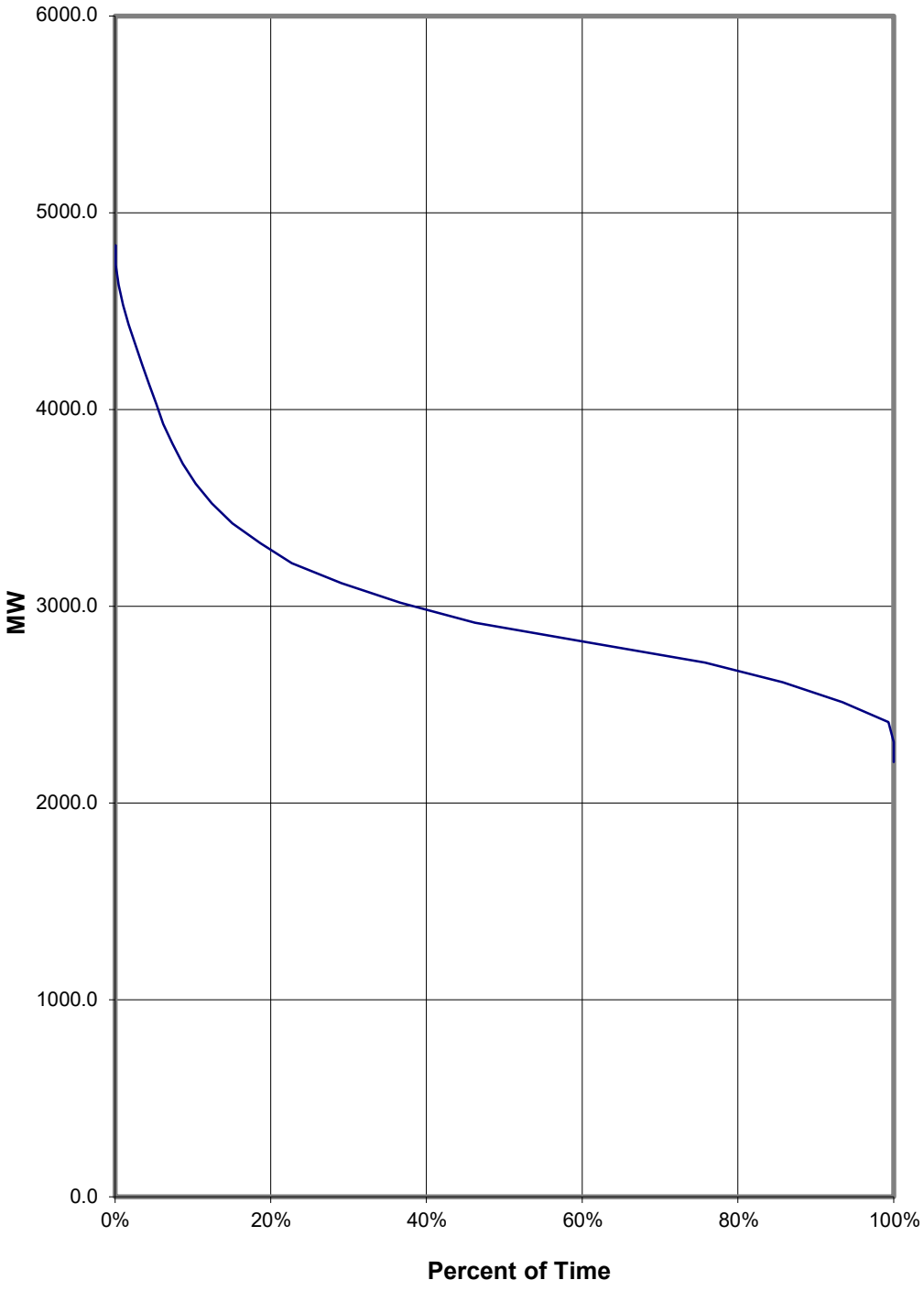
Annual Load Duration Curve

2016 Annual Load Duration

Line No.						
1	**Total MWh =**	**26,046,054**	**Max = 4835.606**	**Interval =**	**101.0**	
2	**Hours =**	**8784**	**Min = 2310.2855**	**Load Factor =**	**61.32%**	
	Y					**X**
	Load	**Count Hrs**	**Hrs Times Load**	**Accum Load**	**% Total Load**	**% Time**
3	4835.6	5	24178.0	24178.0	0.09%	0.06%
4	4734.6	4	18938.4	43116.5	0.17%	0.10%
5	4633.6	31	143641.8	186758.2	0.72%	0.46%
6	4532.6	49	222097.7	408855.9	1.57%	1.01%
7	4431.6	66	292486.0	701341.9	2.69%	1.76%
8	4330.6	74	320464.8	1021806.8	3.92%	2.61%
9	4229.6	77	325679.7	1347486.4	5.17%	3.48%
10	4128.6	79	326159.9	1673646.3	6.43%	4.38%
11	4027.6	81	326236.1	1999882.4	7.68%	5.31%
12	3926.6	79	310201.9	2310084.3	8.87%	6.20%
13	3825.6	103	394037.4	2704121.7	10.38%	7.38%
14	3724.6	117	435778.9	3139900.6	12.06%	8.71%
15	3623.6	145	525422.9	3665323.5	14.07%	10.36%
16	3522.6	184	648159.5	4313483.0	16.56%	12.45%
17	3421.6	231	790391.0	5103874.0	19.60%	15.08%
18	3320.6	315	1045990.9	6149864.8	23.61%	18.67%
19	3219.6	354	1139740.5	7289605.4	27.99%	22.70%
20	3118.6	561	1749538.0	9039143.3	34.70%	29.09%
21	3017.6	667	2012743.2	11051886.5	42.43%	36.68%
22	2916.6	840	2449949.0	13501835.6	51.84%	46.24%
23	2815.6	1292	3637763.0	17139598.5	65.80%	60.95%
24	2714.6	1302	3534417.0	20674015.5	79.37%	75.77%
25	2613.6	877	2292132.5	22966148.0	88.18%	85.76%
26	2512.6	673	1690983.8	24657131.8	94.67%	93.42%
27	2411.6	521	1256446.7	25913578.6	99.49%	99.35%
28	2310.6	57	131704.5	26045283.1	100.00%	100.00%
29	2209.6	0	0.0	26045283.1	100.00%	100.00%

Southwestern Public Service Company

2016 Annual
Load Duration Curve



Southwestern Public Service Company

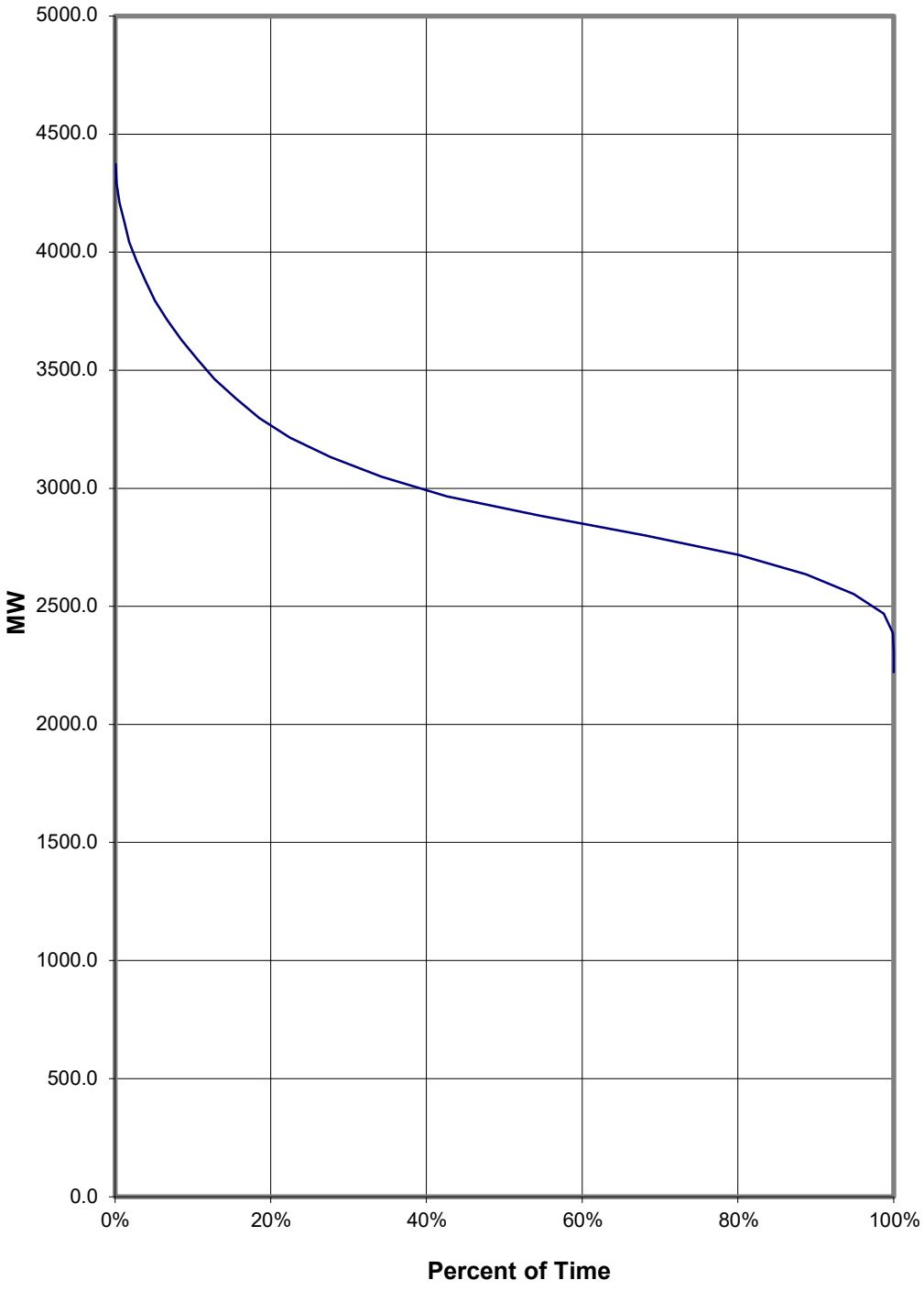
Annual Load Duration Curve

2017 Annual Load Duration

Line No.							
1	**Total MWh =**	**25,988,025**	**Max =**	**4374**	**Interval =**	**82.8**	
2	**Hours =**	**8760**	**Min =**	**2303**	**Load Factor =**	**67.83%**	
	Y						**X**
	Load	**Count Hrs**	**Hrs Times Load**		**Accum Load**	**% Total Load**	**% Time**
3	4374.0	5	21870.0		21870.0	0.08%	0.06%
4	4291.2	14	60076.8		81946.8	0.32%	0.22%
5	4208.4	31	130460.4		212407.2	0.82%	0.57%
6	4125.6	56	231033.6		443440.8	1.71%	1.21%
7	4042.8	53	214268.4		657709.2	2.53%	1.82%
8	3960.0	87	344520.0		1002229.2	3.86%	2.81%
9	3877.2	97	376088.4		1378317.6	5.30%	3.92%
10	3794.4	108	409795.2		1788112.8	6.88%	5.15%
11	3711.6	137	508489.2		2296602.0	8.84%	6.71%
12	3628.8	159	576979.2		2873581.2	11.06%	8.53%
13	3546.0	182	645372.0		3518953.2	13.54%	10.61%
14	3463.2	190	658008.0		4176961.2	16.07%	12.77%
15	3380.4	241	814676.4		4991637.6	19.21%	15.53%
16	3297.6	264	870566.4		5862204.0	22.56%	18.54%
17	3214.8	346	1112320.8		6974524.8	26.84%	22.49%
18	3132.0	454	1421928.0		8396452.8	32.31%	27.67%
19	3049.2	573	1747191.6		10143644.4	39.03%	34.21%
20	2966.4	738	2189203.2		12332847.6	47.46%	42.64%
21	2883.6	1048	3022012.8		15354860.4	59.08%	54.60%
22	2800.8	1176	3293740.8		18648601.2	71.76%	68.03%
23	2718.0	1063	2889234.0		21537835.2	82.88%	80.16%
24	2635.2	755	1989576.0		23527411.2	90.53%	88.78%
25	2552.4	532	1357876.8		24885288.0	95.76%	94.85%
26	2469.6	340	839664.0		25724952.0	98.99%	98.73%
27	2386.8	103	245840.4		25970792.4	99.93%	99.91%
28	2304.0	8	18432.0		25989224.4	100.00%	100.00%
29	2221.2	0	0.0		25989224.4	100.00%	100.00%

Southwestern Public Service Company

2017 Annual
Load Duration Curve



Southwestern Public Service Company

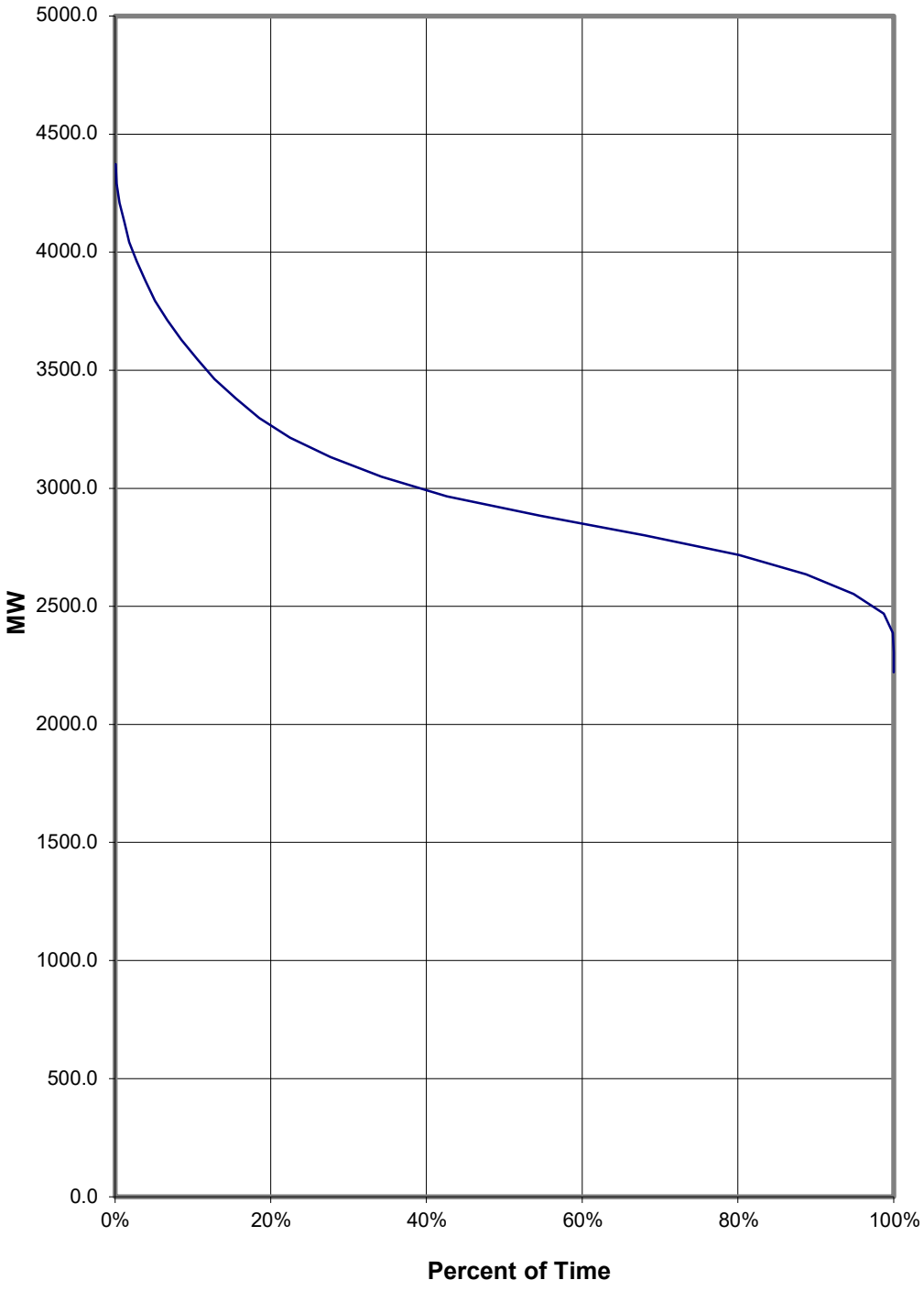
Annual Load Duration Curve

2018 Annual Load Duration

Line No.							
1	**Total MWh =**	**25,988,025**	**Max =**	**4374**	**Interval =**	**82.8**	
2	**Hours =**	**8760**	**Min =**	**2303**	**Load Factor =**	**67.83%**	
	Y						**X**
	Load	**Count Hrs**	**Hrs Times Load**		**Accum Load**	**% Total Load**	**% Time**
3	4374.0	5	21870.0		21870.0	0.08%	0.06%
4	4291.2	14	60076.8		81946.8	0.32%	0.22%
5	4208.4	31	130460.4		212407.2	0.82%	0.57%
6	4125.6	56	231033.6		443440.8	1.71%	1.21%
7	4042.8	53	214268.4		657709.2	2.53%	1.82%
8	3960.0	87	344520.0		1002229.2	3.86%	2.81%
9	3877.2	97	376088.4		1378317.6	5.30%	3.92%
10	3794.4	108	409795.2		1788112.8	6.88%	5.15%
11	3711.6	137	508489.2		2296602.0	8.84%	6.71%
12	3628.8	159	576979.2		2873581.2	11.06%	8.53%
13	3546.0	182	645372.0		3518953.2	13.54%	10.61%
14	3463.2	190	658008.0		4176961.2	16.07%	12.77%
15	3380.4	241	814676.4		4991637.6	19.21%	15.53%
16	3297.6	264	870566.4		5862204.0	22.56%	18.54%
17	3214.8	346	1112320.8		6974524.8	26.84%	22.49%
18	3132.0	454	1421928.0		8396452.8	32.31%	27.67%
19	3049.2	573	1747191.6		10143644.4	39.03%	34.21%
20	2966.4	738	2189203.2		12332847.6	47.46%	42.64%
21	2883.6	1048	3022012.8		15354860.4	59.08%	54.60%
22	2800.8	1176	3293740.8		18648601.2	71.76%	68.03%
23	2718.0	1063	2889234.0		21537835.2	82.88%	80.16%
24	2635.2	755	1989576.0		23527411.2	90.53%	88.78%
25	2552.4	532	1357876.8		24885288.0	95.76%	94.85%
26	2469.6	340	839664.0		25724952.0	98.99%	98.73%
27	2386.8	103	245840.4		25970792.4	99.93%	99.91%
28	2304.0	8	18432.0		25989224.4	100.00%	100.00%
29	2221.2	0	0.0		25989224.4	100.00%	100.00%

Southwestern Public Service Company

2018 Annual
Load Duration Curve



Southwestern Public Service Company

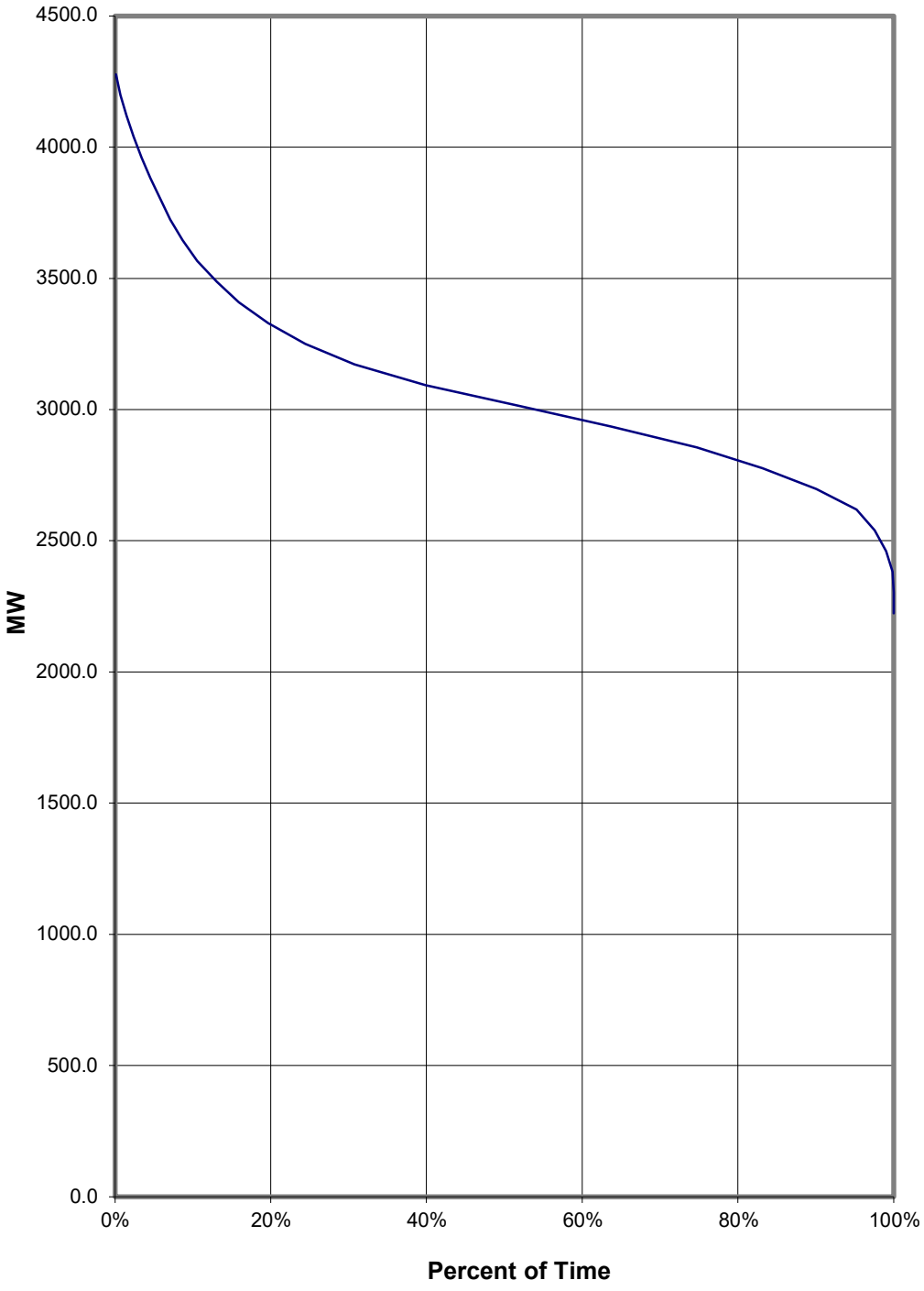
Annual Load Duration Curve

2019 Annual Load Duration

Line No.						
1	**Total MWh =**	**26,701,288**	**Max = 4277.7624**	**Interval =**	**79.0**	
2	**Hours =**	**8760**	**Min = 2303.3191**	**Load Factor =**	**71.25%**	
	Y					**X**
	Load	**Count Hrs**	**Hrs Times Load**	**Accum Load**	**% Total Load**	**% Time**
3	4277.8	9	38499.9	38499.9	0.14%	0.10%
4	4198.8	52	218335.6	256835.5	0.96%	0.70%
5	4119.8	70	288383.4	545218.9	2.04%	1.50%
6	4040.8	79	319220.2	864439.1	3.24%	2.40%
7	3961.8	88	348635.1	1213074.2	4.54%	3.40%
8	3882.8	99	384393.5	1597467.7	5.98%	4.53%
9	3803.8	111	422217.6	2019685.3	7.56%	5.80%
10	3724.8	113	420898.1	2440583.4	9.14%	7.09%
11	3645.8	140	510406.7	2950990.2	11.05%	8.69%
12	3566.8	165	588515.8	3539506.0	13.26%	10.57%
13	3487.8	219	763820.0	4303325.9	16.12%	13.07%
14	3408.8	248	845373.1	5148699.0	19.28%	15.90%
15	3329.8	331	1102151.3	6250850.3	23.41%	19.68%
16	3250.8	417	1355567.9	7606418.3	28.49%	24.44%
17	3171.8	553	1753984.6	9360402.9	35.06%	30.75%
18	3092.8	801	2477302.7	11837705.5	44.33%	39.90%
19	3013.8	1060	3194588.1	15032293.6	56.30%	52.00%
20	2934.8	1028	3016935.7	18049229.4	67.60%	63.73%
21	2855.8	962	2747243.4	20796472.8	77.89%	74.71%
22	2776.8	739	2052027.4	22848500.2	85.57%	83.15%
23	2697.8	607	1637541.8	24486041.9	91.70%	90.08%
24	2618.8	452	1183680.6	25669722.5	96.14%	95.24%
25	2539.8	206	523191.1	26192913.6	98.10%	97.59%
26	2460.8	126	310056.1	26502969.7	99.26%	99.03%
27	2381.8	73	173868.7	26676838.3	99.91%	99.86%
28	2302.8	12	27633.1	26704471.5	100.01%	100.00%
29	2223.8	0	0.0	26704471.5	100.01%	100.00%

Southwestern Public Service Company

2019 Annual
Load Duration Curve



Southwestern Public Service Company

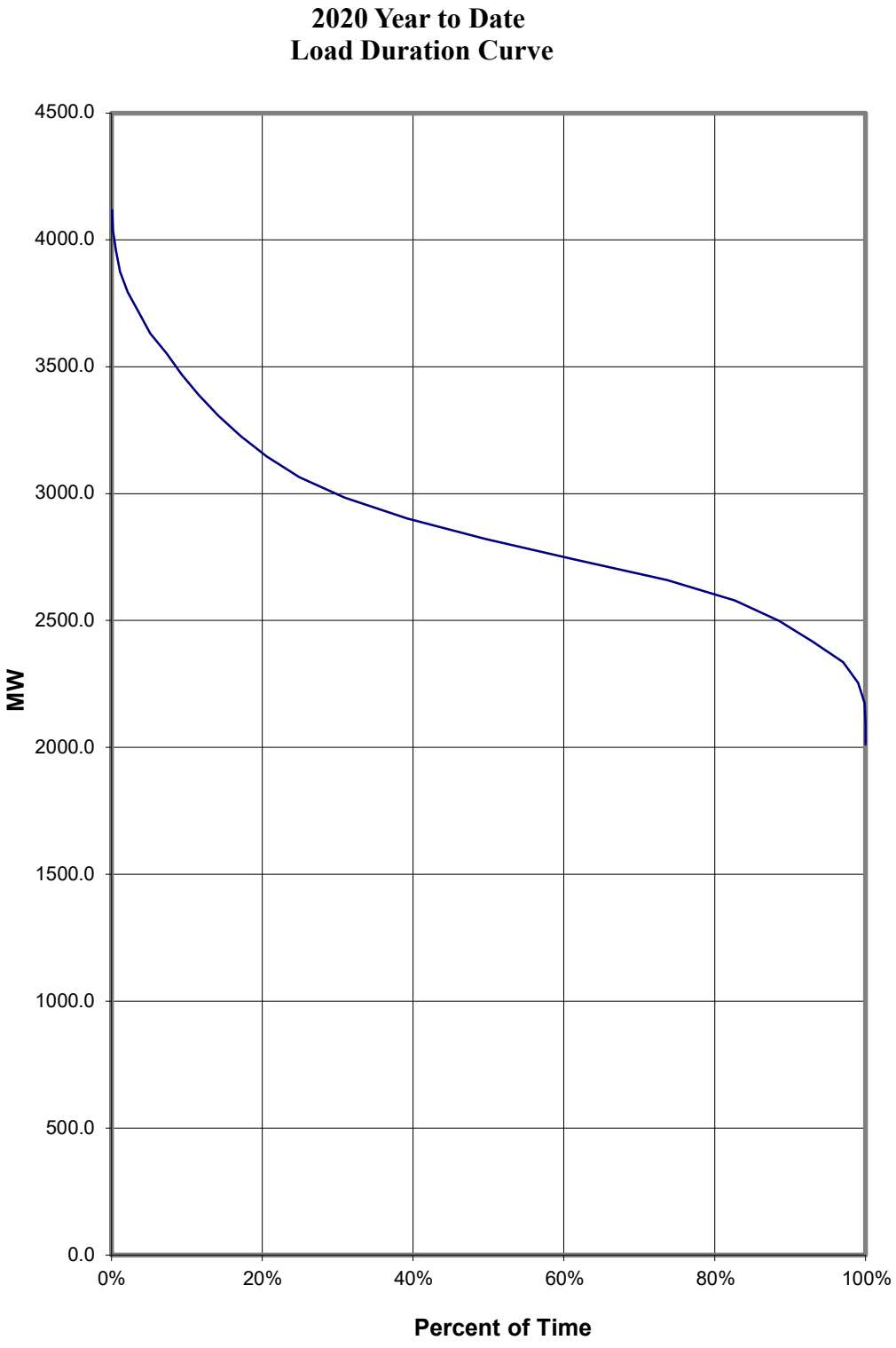
Annual Load Duration Curve

Year to Date 2020 Load Duration

Line No.						
1	**ıl MWh =**	**18,730,957**	**Max =**	**4117.746**	**Interval =**	**81.0**
2	**Hours =**	**6575**	**Min =**	**2093.71**	**Load Factor =**	**69.18%**
	Y					**X**
	Load	**Count Hrs**	**Hrs Times Load**	**Accum Load**	**% Total Load**	**% Time**
3	4117.7	5	20588.7	20588.7	0.11%	0.08%
4	4036.7	8	32294.0	52882.7	0.28%	0.20%
5	3955.7	28	110760.9	163643.6	0.87%	0.62%
6	3874.7	35	135616.1	299259.7	1.60%	1.16%
7	3793.7	67	254181.0	553440.7	2.95%	2.17%
8	3712.7	98	363849.1	917289.8	4.90%	3.67%
9	3631.7	98	355911.1	1273200.9	6.80%	5.16%
10	3550.7	145	514858.2	1788059.1	9.55%	7.36%
11	3469.7	129	447597.2	2235656.3	11.94%	9.32%
12	3388.7	149	504923.2	2740579.5	14.63%	11.59%
13	3307.7	170	562316.8	3302896.3	17.63%	14.17%
14	3226.7	196	632442.2	3935338.5	21.01%	17.16%
15	3145.7	228	717230.1	4652568.6	24.84%	20.62%
16	3064.7	283	867323.1	5519891.7	29.47%	24.93%
17	2983.7	397	1184547.2	6704438.9	35.79%	30.97%
18	2902.7	542	1573288.3	8277727.2	44.19%	39.21%
19	2821.7	680	1918787.3	10196514.5	54.44%	49.55%
20	2740.7	775	2124078.2	12320592.6	65.78%	61.34%
21	2659.7	812	2159713.8	14480306.4	77.31%	73.69%
22	2578.7	591	1524038.9	16004345.3	85.44%	82.68%
23	2497.7	386	964130.0	16968475.2	90.59%	88.55%
24	2416.7	293	708106.6	17676581.8	94.37%	93.00%
25	2335.7	264	616636.9	18293218.7	97.66%	97.02%
26	2254.7	132	297626.5	18590845.2	99.25%	99.03%
27	2173.7	57	123903.5	18714748.7	99.91%	99.89%
28	2092.7	7	14649.2	18729398.0	99.99%	100.00%
29	2011.7	0	0.0	18729398.0	99.99%	100.00%

Southwestern Public Service Company

Monthly Load Duration Curve



Southwestern Public Service Company

Quality of Service Information

Southwestern Public Service Company ("SPS") strives to provide the highest quality of service at the lowest reasonable price to its customers. By continuing to improve operating procedures, maintenance practices, planning, engineering design and construction, SPS ensures the most economical operation of SPS's generation, transmission and distribution systems.

SPS sets aggressive reliability goals yearly to maintain quality of service and customer satisfaction. System Average Interruption Frequency Index ("SAIFI"), Customer Average Interruption Duration Index ("CAIDI"), and System Average Interruption Duration Index ("SAIDI") are used to gauge SPS's quality of service.

During the Test Year (October 1, 2019 through September 30, 2020), SPS's SAIDI metric was 74.54, meaning that the average total amount of outage time per customer was less than 75 minutes during the Test Year. This equates to the electrical system serving customers 99.99% of the minutes in a year. Also, during the Test Year, SPS's SAIFI metric was 0.70. This means that the average number of service interruptions per customer was less than one time per year.
During the Test Year (October 1, 2019 through September 30, 2020), SPS's SAIDI metric was 116.42, meaning that the average total amount of outage time per customer was less than 117 minutes during the Test Year. This equates to the electrical system serving customers 99.98% of the minutes in a year. Also, during the Test Year, SPS's SAIFI metric was 0.89. This means that the average number of service interruptions per customer was less than one time per year.

To maintain these goals, SPS must be responsive to customers' needs. SPS staffs a Customer Care Center in Amarillo to provide responsive customer service. Call center agents take customer calls 24 hours a day, 7 days a week for emergency and outage orders. SPS's customers have the option to use the Interactive Voice Response system to quickly report an outage.

There are two Control Centers in the SPS service territory which include the Transmission Control Center in Amarillo, Texas and the Distribution Control Center in Lubbock, Texas. Both Control Centers operate 24 hours a day, 7 days a week to continuously monitor and respond to normal and emergency operating conditions. The Control Centers use a Supervisory Control and Data Acquisition system for real-time system monitoring. The Distribution Control Center uses a Network Management System to handle customer outages more efficiently. Each Control Center has a separate performance group that analyzes system performance and recommends corrective actions supported by budgetary recommendations.

Overall customer satisfaction has been tracked in the Electric Utility Residential Customer Satisfaction Study performed by J.D. Power and Associates ("J.D. Power Study"). In the 2018 J.D. Power Study, SPS ranked in the 2nd quartile for overall satisfaction among residential customers nationally.

Details on SPS's efforts to maintain and improve quality of service are discussed further in Schedules H-13.1a, H-13.1b, H-13.1c, H-13.1d, and H-13.1e.

Southwestern Public Service Company

Voltage Surveys

Voltage on Southwestern Public Service Company's ("SPS") system is monitored and recorded continuously at the Distribution and Transmission Control Centers by electronic means via the Supervisory Control and Data Acquisition ("SCADA") system. SPS's SCADA system monitors 100% of the transmission interchanges and 67% of the distribution substations. Many of the distribution substations have fixed voltage recorders in the substations. Onsite voltage checks are performed as a standard response to customer complaints and can include high precision voltage recorders temporarily installed to detect voltage excursions happening at times when field personnel are not on site to measure it.

Southwestern Public Service Company

Circuit Breaker Operations

Substation personnel compile records of circuit breaker operations quarterly. During the Test Year (October 1, 2019 through September 30, 2020) the following operations were recorded:

Operations: 15,559

The following page summarizes the primary causes of breaker operations resulting in an outage event caused by a fault on the system for Transmission, Substation and Distribution.

The sample records by outage event include all days and are categorized by:

- Transmission, which includes the Transmission Line & Transmission Substation levels;
- Distribution Substation, which includes the Distribution Substation level; and
- Distribution, which includes the Feeder (Mainline) level.

Transmission Level Outages		
Cause	Count By Event	% Total
Accidental	1	2.9%
Animal	1	2.9%
Arrester	2	5.9%
Bushing	1	2.9%
Conduct Contact	1	2.9%
Crossarm	1	2.9%
Insulator	2	5.9%
Pole	7	20.6%
Relay	1	2.9%
Unknown	17	50.0%
Total	34	100.0%

Distribution Substation		
Cause	Count By Event	% Total
Accidental	1	3.7%
Animal	8	29.6%
Arrester	1	3.7%
Breaker	2	7.4%
Connector	2	7.4%
Fused Cutout	1	3.7%
Insulator	1	3.7%
Overload	2	7.4%
Relay	4	14.8%
Unknown	3	11.1%
Voltage Regulatc	1	3.7%
Xcel Planned	1	3.7%
Total	27	100.0%

Distribution(Mainline)		
Cause	Count By Event	% Total
Accidental	4	2.7%
Animal	8	5.4%
Arrester	2	1.4%
Breaker	4	2.7%
Cable	3	2.0%
Clear for	2	1.4%
Conduct Contact	16	10.9%
Conduct Fatigue	15	10.2%
Connector	2	1.4%
Crossarm	4	2.7%
Debris In Line	2	1.4%
Fuse Link	1	0.7%
Guy	1	0.7%
Insulator	2	1.4%
Intentional	1	0.7%
Lightning	18	12.2%
Overload	3	2.0%
Pole	28	19.0%
Public Damage	11	7.5%
Recloser	1	0.7%
Terminator	1	0.7%
Unknown	13	8.8%
Veg Tree	3	2.0%
Xcel Planned	2	1.4%
Total	147	100.0%

Note: Percentages may be slightly off due to rounding.

Sample Records:

Distribution(Mainline)

Area Office	Begin Time	Cause	City	Completion Time	Customers
Amarillo	10/1/19 8:35 PM	Pole Broken / Good condition	AMARILLO	10/1/19 8:47 PM	1,549
Plainview	10/3/19 10:48 AM	Public Damage Broken Pole	PLAINVIEW	10/3/19 11:05 AM	764
Lubbock	11/1/19 6:29 AM	Conductor Fatigue Aluminum	WILSON	11/1/19 6:35 AM	166
Seminole	11/6/19 12:28 PM	Lightning Strike	DENVER CITY	11/6/19 12:56 PM	901
Amarillo	11/11/19 8:04 AM	Pole Broken / Good condition	AMARILLO	11/11/19 9:49 AM	599
Lubbock	11/12/19 9:55 AM	Unknown Cause Not Determined	RALLS	11/12/19 10:11 AM	1,233
Plainview	11/13/19 3:09 PM	Animal Contact Other	LOCKNEY	11/13/19 4:36 PM	16
Amarillo	11/14/19 9:23 AM	Breaker Fail Vacuum Circuit Bkr	AMARILLO	11/14/19 10:08 AM	6,640
Dumas	11/20/19 12:15 PM	Pole Broken / Good condition	DALHART	11/20/19 2:26 PM	68
Seminole	11/26/19 11:48 AM	Conductor Contact - Galloping	DENVER CITY	11/26/19 12:15 PM	901
Borger	11/26/19 1:12 PM	Unknown Cause Not Determined	BORGER	11/26/19 1:45 PM	1,464
Levelland	11/30/19 4:42 PM	Clear for Xcel Personnel Safety	WHITEFACE	11/30/19 5:00 PM	255
Dumas	12/3/19 4:31 PM	Conductor Fatigue Aluminum	CACTUS	12/3/19 5:16 PM	772
Pampa	12/8/19 8:22 PM	Conductor Fatigue Aluminum	MIAMI	12/8/19 10:34 PM	483
Amarillo	12/10/19 8:20 PM	Cable Failure Primary P&L	CANYON	12/10/19 9:53 PM	1,978
Pampa	12/27/19 10:47 AM	Pole Broken / Good condition	PAMPA	12/27/19 11:46 AM	212
Borger	12/27/19 11:50 PM	Unknown Cause Not Determined	BORGER	12/28/19 1:44 AM	510
Lubbock	1/3/20 7:22 PM	Cable Failure Pri Jacketed	SLATON	1/3/20 8:47 PM	639
Amarillo	1/7/20 5:18 PM	Public Damage Dig-In	AMARILLO	1/7/20 6:47 PM	2,181
Clovis	1/10/20 9:40 PM	Conductor Contact - Floating	TEXICO	1/10/20 11:41 PM	424
Clovis	1/10/20 9:40 PM	Conductor Contact - Floating	TEXICO	1/10/20 11:41 PM	424
Dumas	1/17/20 7:27 AM	Recloser Bushing Failure	STRATFORD	1/17/20 8:52 AM	1,123
Plainview	2/9/20 4:28 PM	Animal Contact Other	LOCKNEY	2/9/20 5:53 PM	89
Amarillo	3/1/20 5:50 PM	Fuse Link Broken	CANYON	3/1/20 6:55 PM	21
Seminole	3/24/20 10:08 AM	Conductor Fatigue Copper	DENVER CITY	3/24/20 10:27 AM	836
Pampa	4/16/20 9:37 PM	Veg Tree Inside Maint Corridor	CANADIAN	4/16/20 11:27 PM	301
Lubbock	4/21/20 7:28 AM	Guy Anchor Failure	NEW DEAL	4/21/20 8:46 AM	372
Lubbock	5/2/20 4:53 AM	Crossarm Arm Broken	WOLFFORTH	5/2/20 7:23 AM	1,804
Plainview	5/8/20 12:08 AM	Conductor Fatigue Copper	PLAINVIEW	5/8/20 12:28 AM	558
Levelland	5/8/20 12:42 AM	Unknown Cause Not Determined	MORTON, TX 7	5/8/20 2:32 AM	851
Pampa	5/12/20 1:49 PM	Lightning Arrester Polymer	PAMPA	5/12/20 3:09 PM	52
Amarillo	5/17/20 7:32 AM	Public Damage Broken Pole	AMARILLO	5/17/20 8:17 AM	1,102
Amarillo	5/28/20 10:27 AM	Public Damage OH Line Contact	AMARILLO	5/28/20 12:12 PM	236
Plainview	6/4/20 5:36 PM	Debris In Line	PLAINVIEW	6/4/20 6:14 PM	1,967
Lubbock	6/4/20 10:10 PM	Pole Broken / Good condition	POST	6/5/20 8:02 AM	609
Lubbock	6/5/20 4:52 PM	Accidental Switch Error by Xcel	POST	6/5/20 7:52 PM	301
Levelland	6/10/20 11:30 AM	Public Damage Broken Pole	WHITEFACE	6/10/20 12:56 PM	98
Seminole	6/15/20 7:29 AM	Unknown Cause Not Determined	DENVER CITY	6/15/20 8:24 AM	1,007
Dumas	6/19/20 8:36 PM	Lightning Strike	STRATFORD	6/19/20 10:37 PM	1,124
Amarillo	6/19/20 9:39 PM	Pole Fire	AMARILLO	6/19/20 11:02 PM	1,705
Amarillo	6/22/20 8:41 PM	Insulator Flash	AMARILLO	6/22/20 10:47 PM	1,184
Plainview	6/29/20 2:14 PM	Animal Contact Other	FLOYDADA	6/29/20 2:58 PM	107
Borger	7/4/20 7:26 AM	Breaker Failure Oil Circuit Rec	GRUVER	7/4/20 11:19 AM	764
Seminole	7/8/20 11:58 AM	Clear for Xcel Personnel Safety	DENVER CITY	7/8/20 1:24 PM	147
Dumas	7/11/20 9:44 PM	Lightning Strike	DUMAS	7/11/20 10:27 PM	1,230
Hereford	7/12/20 6:07 AM	Lightning Strike	HEREFORD	7/12/20 6:18 AM	743
Dumas	7/16/20 4:10 PM	Pole Rotten	STRATFORD	7/16/20 5:14 PM	1,136
Levelland	8/7/20 9:20 PM	Lightning Strike	LITTLEFIELD	8/7/20 10:54 PM	241
Levelland	8/8/20 12:40 PM	Xcel Planned Construction Outag	(blank)	8/8/20 1:30 PM	4
Plainview	8/10/20 11:38 PM	Pole Broken / Good condition	PLAINVIEW	8/11/20 2:53 AM	100
Amarillo	8/13/20 9:10 AM	Accidental Coordination Error	AMARILLO	8/13/20 9:29 AM	47
Amarillo	8/14/20 7:00 PM	Pole Rotten	AMARILLO	8/14/20 8:48 PM	1,709
Plainview	8/23/20 12:16 PM	Accidental OH Line Contact Xcel	PLAINVIEW	8/23/20 12:55 PM	573
Amarillo	8/29/20 8:14 PM	Veg Tree Inside Maint Corridor	AMARILLO	8/29/20 9:17 PM	2,088
Amarillo	8/30/20 4:24 PM	Unknown Cause Not Determined	AMARILLO	8/30/20 5:51 PM	1,614
Amarillo	9/5/20 12:47 PM	Public Damage OH Line Contact	PANHANDLE	9/5/20 2:00 PM	1,040
Plainview	9/9/20 4:50 AM	Pole Fire	PLAINVIEW	9/9/20 5:23 AM	1,948
Hereford	9/10/20 11:55 PM	Lightning Arrester Polymer	BOVINA	9/11/20 3:05 AM	43
Hereford	9/16/20 4:35 PM	Conductor Contact - Floating	HART	9/16/20 5:40 PM	541

Distribution Substation

Area Office	Begin Time	Cause	City	Completion Time	Customers
Amarillo	10/5/19 5:00 AM	Animal Contact Other	AMARILLO	10/5/19 7:43 AM	2,852
Pampa	10/24/19 2:52 PM	Relay Failure	CANADIAN	10/24/19 5:34 PM	501
Plainview	11/5/19 2:46 PM	Voltage Regulator Failure	OLTON	11/5/19 3:49 PM	656
Amarillo	11/26/19 10:42 AM	Insulator Flash	AMARILLO	11/26/19 11:35 AM	2,753
Plainview	1/28/20 6:43 AM	Animal Contact OH Switch	PLAINVIEW	1/28/20 7:31 AM	602
Amarillo	2/1/20 7:33 AM	Unknown Cause Not Determined	AMARILLO	2/1/20 8:06 AM	2,792
Hereford	3/30/20 5:10 PM	Relay Failure	HART	3/30/20 7:45 PM	539
Lubbock	4/12/20 11:44 AM	Animal Contact Other	IDALOU	4/12/20 2:41 PM	334
Lubbock	4/18/20 7:11 AM	Xcel Planned Construction Outage	IDALOU	4/18/20 10:18 AM	336
Amarillo	4/26/20 7:22 PM	Animal Contact Other	AMARILLO	4/26/20 7:47 PM	3,358
Borger	5/1/20 8:17 PM	Lightning Arrester Polymer	BORGER	5/1/20 10:48 PM	98
Plainview	5/9/20 3:49 PM	Animal Contact Other	PLAINVIEW	5/9/20 4:39 PM	1,132
Plainview	5/14/20 5:25 PM	Animal Contact OH Switch	LOCKNEY	5/14/20 7:05 PM	118
Lubbock	5/15/20 7:21 PM	Connector Failure Crimped	LORENZO	5/15/20 9:13 PM	373
Clovis	5/21/20 10:25 PM	Accidental Protection Misop	TEXICO	5/22/20 2:16 AM	483
Clovis	5/23/20 2:04 PM	Unknown Cause Not Determined	TEXICO	5/23/20 2:54 PM	483
Levelland	5/23/20 7:12 PM	Connector Failure Crimped	WHITHARRAL	5/23/20 9:13 PM	89
Lubbock	6/5/20 6:35 AM	Unknown Cause Not Determined	SOUTHLAND	6/5/20 12:00 PM	96
Dumas	6/20/20 10:10 AM	Animal Contact Other	STRATFORD	6/20/20 12:33 PM	1,179
Amarillo	7/14/20 12:27 PM	Breaker Fail Vacuum Circuit Bkr	(blank)	7/14/20 12:32 PM	298
Amarillo	7/14/20 3:32 PM	Overloaded Transformer	GROOM	7/14/20 5:30 PM	1,555
Borger	7/27/20 4:14 PM	Relay Failure	STINNETT	7/27/20 5:37 PM	1,184
Borger	8/12/20 5:55 PM	Animal Contact Other	STINNETT	8/12/20 7:46 PM	1,147
Seminole	8/24/20 8:10 PM	Fused Cutout Failure	SEMINOLE	8/25/20 1:21 AM	1
Amarillo	9/5/20 7:42 PM	Breaker Failure Oil Circuit Bkr	AMARILLO	9/5/20 8:37 PM	2,834

Transmission

Area Office	Begin Time	Cause	City	Completion Time	Customers
Plainview	10/9/19 1:19 PM	Accidental Coordination Error	PLAINVIEW	10/9/19 1:29 PM	562
Plainview	10/13/19 11:30 PM	Lightning Arrester Transmission	ABERNATHY	10/14/19 2:42 AM	773
Levelland	10/24/19 1:39 PM	Conductor Contact - Galloping	MULESHOE	10/24/19 3:04 PM	868
Plainview	11/5/19 2:46 PM	Unknown Cause Not Determined	OLTON	11/5/19 3:00 PM	561
Borger	11/11/19 5:59 AM	Unknown Cause Not Determined	BORGER	11/11/19 7:46 AM	140
Lubbock	11/21/19 2:43 AM	Pole Fire	(blank)	11/21/19 3:03 AM	2
Seminole	11/28/19 4:03 AM	Unknown Cause Not Determined	SEMINOLE	11/28/19 6:15 AM	300
Seminole	11/29/19 9:44 AM	Lightning Arrester Polymer	SEMINOLE	11/29/19 10:57 AM	159
Seminole	11/29/19 9:44 AM	Lightning Arrester Polymer	SEMINOLE	11/29/19 12:34 PM	120
Seminole	1/18/20 9:28 AM	Unknown Cause Not Determined	SEMINOLE	1/18/20 9:38 AM	207
Plainview	1/24/20 3:30 PM	Unknown Cause Not Determined	SILVERTON	1/24/20 5:00 PM	474
Borger	2/24/20 7:12 PM	Unknown Cause Not Determined	BORGER	2/24/20 7:26 PM	99
Clovis	3/8/20 8:03 AM	Insulator Flash	FARWELL	3/8/20 9:38 AM	324
Clovis	3/8/20 10:49 AM	Insulator Flash	FARWELL	3/8/20 11:12 AM	324
Borger	4/16/20 9:26 PM	Unknown Cause Not Determined	(blank)	4/16/20 10:05 PM	99
Amarillo	4/26/20 7:48 PM	Relay Failure	AMARILLO	4/26/20 8:07 PM	3,323
Amarillo	4/26/20 7:48 PM	Relay Failure	AMARILLO	4/26/20 8:08 PM	1,252
Borger	5/1/20 9:12 PM	Unknown Cause Not Determined	SKELLYTOWN	5/1/20 9:18 PM	398
Plainview	5/11/20 3:47 PM	Crossarm Arm Broken	HALE CENTER	5/11/20 4:26 PM	1,130
Plainview	5/11/20 8:47 PM	Unknown Cause Not Determined	HALE CENTER	5/11/20 10:07 PM	1,130
Plainview	6/4/20 8:40 PM	Unknown Cause Not Determined	HALE CENTER	6/4/20 9:27 PM	1,127
Lubbock	6/4/20 10:07 PM	Unknown Cause Not Determined	POST	6/5/20 12:15 AM	57
Lubbock	6/4/20 10:10 PM	Pole Broken / Good condition	SOUTHLAND	6/5/20 6:12 AM	96
Pampa	6/10/20 2:35 AM	Unknown Cause Not Determined	CANADIAN	6/10/20 3:32 AM	1,395
Pampa	6/22/20 10:39 PM	Unknown Cause Not Determined	CANADIAN	6/22/20 11:37 PM	1,390
Lubbock	7/22/20 3:35 PM	Pole Broken / Good condition	POST	7/22/20 4:25 PM	65
Amarillo	8/10/20 3:46 AM	Bushing Failure Sub Transf	AMARILLO	8/10/20 4:46 AM	4,614
Seminole	8/12/20 6:34 PM	Pole Broken / Good condition	SEAGRAVES	8/12/20 7:01 PM	1,553
Hereford	8/19/20 12:18 AM	Animal Contact Other	DIMMITT	8/19/20 2:09 AM	2,028
Borger	8/26/20 10:21 PM	Unknown Cause Not Determined	FRITCH	8/27/20 12:00 AM	2,746
Amarillo	8/29/20 8:19 PM	Unknown Cause Not Determined	AMARILLO	8/29/20 8:51 PM	2,879
Amarillo	8/29/20 8:28 PM	Pole Broken / Good condition	AMARILLO	8/30/20 1:36 AM	1,040
Amarillo	9/6/20 9:09 AM	Pole Broken / Good condition	(blank)	9/6/20 10:59 AM	3
Amarillo	9/6/20 9:10 AM	Pole Broken / Good condition	(blank)	9/6/20 10:56 AM	4

Southwestern Public Service Company

Quality of Service Complaints

Southwestern Public Service Company ("SPS") receives inquiries concerning quality of service impacts to customer equipment. Certain electronic equipment is more sensitive to voltage fluctuations, voltage or impedance imbalance, and other issues than other loads. Inquiries concerning this type of equipment are handled by SPS in a different way than other service complaints.

Calls from customers concerning sensitive equipment are routed to the Area Engineers for review. If the inquiry merits further investigation, such investigation is carried out under the direction of the Area Engineers. The goal of the investigations is to help the customer determine the cause of the problem and its resolution. The source of power disturbances can be the SPS system or, most frequently, the customer's equipment. In many cases, the disturbance is intermittent, and it is very difficult to determine the cause.

If site investigation is necessary, it is performed by engineers who specialize in power quality problems. The investigation will include checks of physical condition, quality of connections, equipment and conductor limitations, system conditions and conversations with the affected customers. If, during the site investigation, it is determined that voltage and/or current monitoring is necessary, SPS will configure and install recording equipment at the customer's point of interconnection. This information is used to specify relevant upgrades to the SPS system if evidence shows a utility problem and, conversely, if it is concluded that the problem is not on SPS's system, the information is shared with the customer to assist the customer in contacting a qualified electrician.

From October 1, 2019 through September 30, 2020, the SPS Customer Care Center received the following quality of service type requests:

Type	Description	Requests
ELECTRIC OUT-PARTIAL	N/A[(1)]	2,389
ELECTRIC OUT-PARTIAL	BRANCH ON WIRE	7
ELECTRIC OUT-PARTIAL	CUT CABLE	3
ELECTRIC OUT-PARTIAL	LOW WIRE POLE/HOUSE	33
ELECTRIC OUT-PARTIAL	LOW WIRE POLE/POLE	8
ELECTRIC OUT-PARTIAL	CUSTOMER REPORTS SPARK	43
INVESTIGATE SERVICE	RADIO INTERFERENCE	1
INVESTIGATE SERVICE	CUSTOMER GETS SHOCK	8
VOLTAGE	FLICKERING LIGHTS	576
VOLTAGE	VOLTAGE HIGH/LOW	518
VOLTAGE	STRAY VOLTAGE INVEST.	6

(1) No description was provided for this group of service requests.

Southwestern Public Service Company

Vegetation Management (Tree Trimming) Program

Southwestern Public Service Company ("SPS") has a vegetation management program to maintain its electric system in accordance with the National Electric Safety Code ("NESC") and improve quality of service. Trees and brush are maintained at an adequate distance from SPS's transmission and distribution overhead system to help ensure public safety and prevent interruptions of electric service. SPS has a vegetation management supervisor located in Amarillo, Texas that oversees work activities. More information regarding SPS's tree trimming program can be found in SPS's Annual Report on Vegetation Management that was filed on May 1, 2020 under Project No. 41381.

Transmission and Distribution Vegetation Management

Transmission lines and distribution circuits are inspected and maintained by a qualified vegetation management contractor based on local tree growth rates, specific to individual trees on specific circuits. SPS assigns the vegetation management contractor selected transmission lines and distribution circuits to work each year based on the schedule, tree conditions, and reliability performance. The contractor makes a reasonable attempt to notify landowners to make them aware of the necessary work. Types of work performed are tree pruning, tree removal, brush mowing, and herbicide applications. SPS also responds to landowner requests and maintains trees as necessary.

Contractor Performance

SPS has established and issued vegetation management guidelines to its contractors. SPS monitors contractor performance by conducting quarterly field audits, inspecting completed work, and tracking results indicators. SPS conducts quarterly and yearly reviews with its contractors to ensure performance and quality of work.

Customer Information

SPS uses various customer information brochures, booklets, and door hangers to communicate tree and power line issues. The brochure "Tree Pruning near Power Lines" describes SPS's tree maintenance program. The booklet "Plant a Better Future" promotes responsible tree planting around power lines by selecting low growing trees. Various door hangers are used to notify customers of inspections and scheduled work.

SPS also keeps safety and education information online at the following website:

https://www.xcelenergy.com/customer_support/vegetation_management

Southwestern Public Service Company

Quality of Service Improvements

Southwestern Public Service Company ("SPS") strives to design transmission and distribution systems that provide low-cost, high quality electric service in a safe and efficient manner. SPS's goal is to respond to customers' needs for quality service using the latest concepts and technologies consistent with cost effective operation. Improvements in service are achieved through distribution and transmission capacity planning, feeder performance improvement planning and implementation of appropriate technologies for maintenance, construction and operations.

Transmission and Distribution Planning

SPS's capacity planners use historic and current load studies to forecast and budget for future additions to the transmission and distributions system. Transmission and distribution design departments work with customers to plan for new loads and facility upgrades and make recommendations to Capacity Planning for system improvements.

SPS is a member of the Southwest Power Pool which conducts annual coordinated transmission analysis for its members' systems. This review is also comprehensive and determines the effects of contingencies on various critical elements of the networks. Each member system is responsible for improvements of its system, but coordinated study assures that all factors have been considered.

Substation Design, Construction, and Maintenance

The substation maintenance program is risk-based, and considers various operating factors as well as maintenance history, allowing for the use of maintenance resources in determining which substation equipment poses the highest operational risk. This enables the execution of the right maintenance activities on the right pieces of the equipment at the right time. Operation functionality tests are performed on feeder circuit breakers on a one to three-year cycle depending on the performance reliability of the breaker.

A series of substation design standards have been created and implemented to improve the consistency and quality of newly constructed or significantly modified stations. The inherent reliability of the finished substation has been, and continues to be, a significant driver in the creation of these standards.

The replacement of aging and unreliable equipment is ongoing throughout the SPS system. Specific quality of service programs that have been implemented include:

- The replacement of particularly unreliable cap & pin insulators in transmission substations;

- The replacement of unreliable remote terminal units (RTUs) in transmission substations;
- The replacement of unreliable transformers in transmission substations;
- The replacement of unreliable breakers in transmission and distribution substations;
- The creation of replacement criteria for station batteries and the implementation of the criteria in performing several planned replacements of identified battery banks;
- The introduction of specific root cause analysis for each substation outage that occurs, including the creation of specific cost-effective action items to prevent similar outages;
- The introduction of specific root cause analysis for each misoperation of transmission protective systems, including the creation of specific cost-effective action items to prevent similar misoperation;
- The installation of wildlife deterrent systems in substations prone to animal incursion;
- The utilization of mobile substations; and
- The adoption of best practices in testing and maintenance techniques by utilizing the knowledge and experience possessed by all four operating companies owned by Xcel Energy Inc.

Transmission Line Design, Construction and Maintenance

Transmission lines are inspected from a helicopter once a year and patrolled from the ground as needed to identify any defects or damage which could lead to unsatisfactory operation. SPS's Inspection and Treatment program for wood poles provides a groundline inspection to determine if poles are compliant with the minimum strength guidelines set forth in the National Electrical Safety Code ("NESC"), and retreatment of wood transmission poles as needed to ensure that the NESC strength guidelines are met. In addition, poles that will remain in service may have additional wood preservative treatments applied to the poles to help maintain their structural integrity. Each pole is scheduled to be inspected and treated once every 12 years. Poles that are found to be not compliant with the NESC which are not able to be retreated are prioritized for replacement or are reinforced using engineered systems to be compliant. In compliance with Texas House Bill 4150, all transmission lines in Texas are analyzed on a five-year cycle using LiDAR and ground surveys to identify clearance issues in accordance with the NESC.

System Operations

SPS operates and maintains an Energy Management System ("EMS") used for monitoring and control of generation and transmission, which has been upgraded for enhanced cyber security. SPS continues to make improvements to the EMS to meet the Federal Energy Regulatory Commission's Critical Energy Infrastructure Information requirements.

Various transmission upgrades have also been installed. Circuits have been re-conducted; transformers have been replaced with higher capacity units. New lines, substations, transformers and capacitors have been installed.

Distribution Operations

The distribution system is supervised and operated from the Distribution Control Center in Lubbock. The distribution system is monitored electronically by the distribution dispatcher 24 hours a day, 7 days a week. All trouble orders are dispatched to first responders who work out of 13 service centers in Texas. The Distribution Control Center also compiles customer interruption information in a database that is used for reliability reporting. The reliability information is used to determine feeder performance.

Area Engineers apply a detailed Feeder Performance Improvement Process where betterment jobs are initiated on feeders that perform unacceptably, in order to improve their performance. Tracking outage events by both premise and device further allows Area Engineers to identify and attempt to diagnose repeated outages utilizing the Outage Exception Reporting Tool.

Vegetation management crews report any unsafe line conditions found while clearing circuits. Betterment jobs are initiated as necessary to resolve any issues discovered.

SPS's Inspection and Treatment program for wood poles provides a groundline inspection to determine if poles are compliant with the minimum strength guidelines set forth in the NESC, and retreatment of wood distribution poles as needed to ensure that the NESC strength guidelines are met. Poles that will remain in service may have additional wood preservative treatments applied to the poles to help maintain their structural integrity. Poles that are found to be not compliant to the NESC guidelines are prioritized for replacement or are reinforced using engineered systems to be compliant.

Operations has begun a program to patrol all feeders and document the corrective actions required. Individual work orders are created for each specific location to correct inadequate conditions and are prioritized as high, medium, or low, each with its own timeline for completion.

Southwestern Public Service Company

IE-24 Reports (Form 417R)

Southwestern Public Service Company did not file a OE-417 disturbance report with the Department of Energy or other required entities during the Test Year (October 1, 2019 through September 30, 2020) or the Update Period (October 1, 2020 through December 31, 2020).

Southwestern Public Service Company

Continuity of Service

Year	Continuity of Service Index [1]	Average Length of Interruptions [2] (Hours)
TEST YEAR	0.99986	1.76
2019	0.99982	1.91
2018	0.99980	2.00
2017	0.99977	2.21
2016	0.99985	1.66
2015	0.99974	2.31
2014	0.99984	2.09
2013	0.99983	2.02
2012	0.99982	2.10
2011	0.99984	1.74
2010	0.99985	1.97
Average (2010-2019) [3]	**0.99982**	**2.00**

Notes:

The Test Year is October 1, 2019 through September 30, 2020.

All numbers include forced outages. All numbers exclude major events, outside-caused and planned outages. "Outside-caused" refers to interruptions outside of the distribution system, such as substation, transmission, and generation levels.

[1] Continuity of Service Index - Average Service Availability Index ("ASAI")

$$\text{ASAI (per IEEE 1366)} = \frac{\text{Customer Hours Possible} - \text{Customer Hours Outage}}{\text{Customer Hours Possible}}$$

Customer Hours Possible = Total Number of Customers Served x Period Hours

Customer Hours Outage = A Summation of [Number of Customers Affected by Each Outage x Length (in Hours) of Each Outage]

Period Hours = Number of Hours per Specified Unit of Time (Example: 8,760 hours per 365-day year)

Indicates the fraction of time customers were receiving power over the measured period of time.

[2] Customer Average Interruption Duration Index ("CAIDI").

$$\text{CAIDI (per IEEE 1366)} = \frac{\text{Customer Hours Outage}}{\text{Total Number of Customer Interruptions from all outages}}$$

Indicates the average time (in hours) to restore service of an outage lasting longer than 5 minutes over the measured period of time.

[3] Average based on mean of annual ASAI and CAIDI results.

Southwestern Public Service Company

Available Capacity Wheeling

Southwestern Public Service Company requested transmission service from the Southwest Power Pool, Inc. for all Qualifying Facilities ("QFs") under contract during the Test Year; however, firm transmission service was not available for any of the QFs during the Test Year.

Southwestern Public Service Company

Planned Capacity Wheeling

Southwestern Public Service Company cannot request or obtain long term (i.e., greater than one year) transmission service for the Qualifying Facilities on its system because the underlying power purchase agreements are for one year rolling terms with 90 days' notice of cancellation.

Southwestern Public Service Company

Wheeling Information

Line No.	LINE DESCRIPTION FROM	TO	LENGTH (miles)	THERMAL RATING (MVA)	80% THERMAL RATING (MVA)	MW - MILES
	69-kV TRANSMISSION LINES					
1	ACCO Sub 69 kV (Anderson, Clayton & Company)	Ivory Tap 69 kV	2.60	54	43.2	112.32
2	ACCO Sub 69 kV (Anderson, Clayton & Company)	Clutter Sub 69 kV	2.30	54	43.2	99.36
3	Adair Sub 69 kV	Sulphur Springs Interchange 69 kV	3.56	88	70.4	250.62
4	Allmon Sub 69 kV	Lighthouse REC-Petersburg 69 kV	0.02	54	43.2	0.86
5	Amherst Sub 69 kV	West Littlefield Sub 69 kV	4.90	88	70.4	344.96
6	Artesia Country Club Road Sub Tap 69 kV	Artesia Country Club Road Sub 69 kV	2.25	54	43.2	97.20
7	Artesia Country Club Road Sub Tap 69 kV	Artesia South Rural Sub Tap 69 kV	0.80	54	43.2	34.56
8	Artesia Intechange Tap 69 kV	Artesia West/13th Street Sub 69 kV	1.19	54	43.2	51.41
9	Artesia Interchange 69 kV	Eagle Creek 69 kV	1.03	52	41.6	42.85
10	Artesia Interchange 69 kV	Artesia Intechange Tap 69 kV	0.45	54	43.2	19.44
11	Artesia South Rural Sub Tap 69 kV	Artesia South Rural Sub 69 kV	1.01	54	43.2	43.63
12	Artesia South Rural Sub Tap 69 kV	Atoka Interchange 69 kV	4.05	88	70.4	285.12
13	Artesia Town Sub 69 kV	Artesia South Rural Sub 69 kV	3.07	94	75.2	230.86
14	Artesia West/13th Street Sub 69 kV	Artesia Country Club Road Sub Tap 69 kV	1.56	54	43.2	67.39
15	Bailey County Pump Station 69 kV	Lamb County REC-Beck 69 kV	7.70	88	70.4	542.08
16	Bailey County REC-Lariat Sub Tap 69 kV	Bailey County REC-Progress Sub Tap 69 kV	3.28	88	70.4	230.91
17	Bailey County REC-Progress Sub Tap 69 kV	West Muleshoe Sub 69 kV	5.84	88	70.4	411.14
18	Bailey County REC-South Bailey 69kV	Lamb County REC-Whiteface 69 kV	6.98	36	28.8	201.02
19	Bailey County REC-Sunnyside Sub 69 kV	Hart Industrial 69 kV	9.09	54	43.2	392.69
20	Bainer Sub 69 kV	West Anton Sub 69 kV	5.91	54	43.2	255.31
21	Barwise Sub 69 kV	Floyd County Interchange 69 kV	4.36	54	43.2	188.35
22	Batton Sub North 69 kV	Batton Sub South 69 kV	0.00	54	43.2	0.00
23	Blackhawk Station 69 kV	Phillips No.1 Sub 69 kV	2.79	135	108.0	301.32
24	Blackhawk Station 69 kV	Phillips No.2 Sub 69 kV	2.04	135	108.0	220.32
25	Boardman Sub 69 kV	Flannagan Sub 69 kV	5.00	54	43.2	216.00
26	Bowers Interchange 69 kV	Greenbelt REC-Kellerville 69 kV	22.99	88	70.4	1618.50
27	Brownfield Switching Station 69 kV	City of Brownfield Tap 69 kV	1.10	54	43.2	47.52
28	Buffalo Tap 69 kV	Buffalo Sub 69 kV	4.36	41	32.8	143.01
29	Buffalo Tap 69 kV	Magic City Switch 69 kV	17.18	41	32.8	563.50
30	Burnett Sub 69 kV	Roxana Sub 69 kV	12.65	41	32.8	414.92
31	Burnett Sub 69 kV	CRMWA No.22 Sub 69 kV	4.04	41	32.8	132.51
32	Camex/Transpetco Sub 69 kV	Hutchinson County Interchange 69 kV	1.20	88	70.4	84.48
33	Carlisle Interchange 69 kV	Switch #6878 69 kV	3.13	54	43.2	135.22
34	Carlsbad Interchange 69 kV	South Loving Tap 69 kV	6.75	36	28.8	194.40
35	Carlsbad Waterfield Tap 69 kV	Carlsbad Waterfield Sub 69 kV	6.36	54	43.2	274.75
36	Carlsbad Waterfield Tap 69 kV	Whites City Sub 69 kV	13.24	36	28.8	381.31
37	Cedar Lake Sub 69 kV	Oxy Cedar Lake Sub 69 kV	0.05	54	43.2	2.16
38	Central Valley REC-Artesia 69 kV	Artesia Intechange Tap 69 kV	0.27	54	43.2	11.66
39	Central Valley REC-Cottonwood 69 kV	Cottonwood Sub 69 kV	1.53	54	43.2	66.10
40	Central Valley REC-Cottonwood 69 kV	Smith Sub 69 kV	5.82	88	70.4	409.73
41	Central Valley REC-Dexter 69 kV	Dexter Interchange 69 kV	1.91	36	28.8	55.01
42	Central Valley REC-Hagerman 69 kV	Central Valley REC-Lake Arthur 69 kV	9.00	88	70.4	633.60
43	Central Valley REC-Hagerman 69 kV	Central Valley REC-YO Tap 69 kV	1.49	88	70.4	104.90
44	Central Valley REC-Lake Arthur 69 kV	Central Valley REC-Cottonwood 69 kV	5.47	88	70.4	385.09
45	Central Valley REC-Orchard 69 kV	Dexter Tap 69 kV	4.29	88	70.4	302.02
46	Central Valley REC-Pine Lodge 69 kV	Roswell Interchange 69 kV	11.41	54	43.2	492.91
47	City of Brownfield Tap 69 kV	Goodpasture Sub 69 kV	2.58	54	43.2	111.46
48	Cliffside Sub 69 kV	Cliffside Tap 69 kV	0.67	41	32.8	21.98
49	Cliffside Sub 69 kV	Switch #2749 69 kV	10.00	35	28.0	280.00
50	Cliffside Tap 69 kV	North Amarillo Switching Station 69 kV	10.15	41	32.8	332.92
51	Cochran Interchange 69 kV	Lyntegar REC-Sundown 69 kV	9.59	36	28.8	276.19
52	Cochran Interchange 69 kV	Middleton Sub 69 kV	5.50	88	70.4	387.20
53	Corner 69 kV	South Plains REC-Halfway 69 kV	4.40	54	43.2	190.08
54	County Line Sub Tap 69 kV	County Line Sub 69 kV	2.76	54	43.2	119.23
55	County Line Sub Tap 69 kV	South Plains REC-Abernathy 69 kV	6.05	88	70.4	425.92
56	Cox Interchange 69 kV	Aiken Rural Sub 69 kV	3.08	54	43.2	133.06
57	CRMWA No.21 Sub 69 kV	CRMWA No.23 Sub Tap 69 kV	0.14	88	70.4	9.86
58	CRMWA No.23 Sub Tap 69 kV	CRMWA No.23 Sub 69 kV	12.57	94	75.2	945.26
59	Crosby County Interchange 69 kV	Lighthouse REC-Crosbyton 69 kV	3.95	54	43.2	170.64
60	Curry County Interchange 69 kV	Farwell Sub 69 kV	10.41	54	43.2	449.71
61	Damron (Mid America #4) Sub 69 kV	Gray County Interchange 69 kV	5.56	54	43.2	240.19
62	Deaf Smith REC-#10 69 kV	Lariat Sub 69 kV	6.00	88	70.4	422.40
63	Deaf Smith REC-#12 69 kV	Bailey County REC-Sunnyside Sub 69 kV	4.33	54	43.2	187.06
64	Deaf Smith REC-#15 & #19 69 kV	Castro County Interchange 69 kV	7.10	54	43.2	306.72
65	Deaf Smith REC-#15 & #19 69 kV	Deaf Smith REC-#12 69 kV	5.80	54	43.2	250.56
66	Deaf Smith REC-#3 69 kV	Castro County Interchange 69 kV	9.38	54	43.2	405.22
67	Deaf Smith REC-#4 69 kV	Deaf Smith REC-#8 69 kV	11.68	88	70.4	822.27
68	Deaf Smith REC-#5 & #11 69 kV	Decommissioned and Upgraded to LaPlata	2.47	54	43.2	106.70
69	Deaf Smith REC-#5 & #11 69 kV	Deaf Smith REC-#9 69 kV Sub, Tap Location	2.86	50	40.0	114.40
70	Deaf Smith REC-#8 69 kV	Dimmit East Sub 69 kV	7.18	88	70.4	505.47
71	Deaf Smith REC-#9 69 kV Sub, Tap Location	Hereford South 69 kV Sub	3.84	50	40.0	153.60
72	Deaf Smith REC-Castro 69 kV	Castro County Interchange 69 kV	5.10	54	43.2	220.32
73	Deaf Smith REC-Metering Station 69 kV	Northeast Hereford Interchange 69 kV	0.75	57	45.6	34.20
74	Decommissioned and Upgraded to LaPlata	Northeast Hereford Interchange 69 kV	4.90	54	43.2	211.68
75	Denver City East Sub 69 kV	Denver City Interchange 69 kV	2.00	36	28.8	57.60
76	Denver City Interchange 69 kV	Jaybee Sub 69 kV	5.51	88	70.4	387.90
77	Denver City Interchange 69 kV	Mid America Tap 69 kV	13.13	54	43.2	567.22

Southwestern Public Service Company

Wheeling Information

Line No.	LINE DESCRIPTION FROM	TO	LENGTH (miles)	THERMAL RATING (MVA)	80% THERMAL RATING (MVA)	MW - MILES
78	Dexter Tap 69 kV	Central Valley REC-Dexter 69 kV	1.97	36	28.8	56.74
79	Dexter Tap 69 kV	Central Valley REC-YO Tap 69 kV	2.51	88	70.4	176.70
80	Diamondback Substation 69 kV	Ozark Mahoning #2 Sub 69 kV	1.59	54	43.2	68.69
81	Diamondback Substation 69 kV	Lyntegar REC-Ashmore 69 kV	5.24	54	43.2	226.37
82	Diamondback Substation 69 kV	Oxy Cedar Lake Sub 69 kV	2.11	54	43.2	91.15
83	Diekemper Sub 69 kV	Graham Interchange 69 kV	2.47	54	43.2	106.70
84	Dimmit South Tap 69kV	Dimmit South Sub 69kV	0.26	54	43.2	11.23
85	Dimmit South Tap 69kV	Dimmit East Sub 69 kV	0.66	54	43.2	28.51
86	Dimmit South Tap 69kV	Deaf Smith REC-#3 69 kV	0.21	54	43.2	9.07
87	Doss Interchange 69 kV	Legacy Interchange 69 kV	5.98	90	72.0	430.56
88	Duval #3 Sub 69 kV	I. M. C. #4 Sub 69 kV	2.85	88	70.4	200.64
89	Duval #3 Sub 69 kV	I. M. C. #3 Sub 69 kV	2.90	36	28.8	83.52
90	Eagle Creek 69 kV	Navajo No.1 Sub 69 kV	1.31	52	41.6	54.50
91	East Levelland Sub 69 kV	Slaughter Tap 69 kV	11.63	54	43.2	502.42
92	East Muleshoe & Valley Substations 69 kV	Bailey County Interchange 69 kV	1.90	54	43.2	82.08
93	East Muleshoe & Valley Substations 69 kV	Bailey County Pump Station 69 kV	6.50	88	70.4	457.60
94	East Plainview Sub 69 kV	Cox Interchange 69 kV	5.00	54	43.2	216.00
95	Farwell Sub 69 kV	Deaf Smith REC-#10 69 kV	2.04	88	70.4	143.62
96	Flannagan Sub 69 kV	Lyntegar REC-Florey 69 kV	0.00	54	43.2	0.00
97	Floyd County Interchange 69 kV	Floydada Tap 69 kV	9.05	54	43.2	390.96
98	Floyd County Interchange 69 kV	Lighthouse REC-Harmony 69 kV	1.71	54	43.2	73.87
99	Floydada Tap 69 kV	South Floydada Sub 69 kV	0.12	54	43.2	5.18
100	Gaines County Interchange 69 kV	Tenneco Sub Tap 69 kV	2.53	54	43.2	109.30
101	Garza Sub 69 kV	Graham Interchange 69 kV	1.05	54	43.2	45.36
102	Goodpasture Sub 69 kV	Lyntegar REC-Jess Smith 69 kV	2.50	41	32.8	82.00
103	Graham Interchange 69 kV	Justiceburg Corner 69 kV	15.41	88	70.4	1084.86
104	Gray County Interchange 69 kV	CRMWA No.23 Sub Tap 69 kV	13.64	88	70.4	960.26
105	Gray County Interchange 69 kV	Kite Sub 69 kV	3.46	88	70.4	243.58
106	Gray County Interchange 69 kV	Kingsmill Interchange 69 kV	5.73	88	70.4	403.39
107	Greenbelt REC-Kellerville 69 kV	Magic City Switch 69 kV	6.05	41	32.8	198.44
108	Hale Center Sub 69 kV	Lighthouse REC-Hale Center 69 kV	0.21	54	43.2	9.07
109	Hale Center Sub 69 kV	Tuco Interchange 69 kV	13.00	54	43.2	561.60
110	Happy City Sub 69 kV	Happy City Tap 69 kV	6.90	54	43.2	298.08
111	Happy City Tap 69 kV	Happy Interchange 69 kV	1.10	54	43.2	47.52
112	Happy City Tap 69 kV	Shamrock Pump Sub 69 kV	3.10	54	43.2	133.92
113	Hart Industrial 69 kV	Lamb County REC-Hart#2 69 kV	5.00	54	43.2	216.00
114	Hereford South 69 kV Sub	Deaf Smith REC-#4 69 kV	4.56	88	70.4	321.02
115	Hobgood Sub 69 kV	Phillips Pump #2 & Yellow House Subs Tap 69 kV	1.00	54	43.2	43.20
116	Hockley County Interchange 69 kV	Coble Sub 69 kV	10.41	54	43.2	449.71
117	Hockley County Interchange 69 kV	Levelland City Tap 69 kV	1.70	54	43.2	73.44
118	Hutchinson County Interchange 69 kV	CRMWA No.22 Sub 69 kV	0.64	41	32.8	20.99
119	I. M. C. #2 Sub 69 kV	United Salt Sub 69 kV	0.48	88	70.4	33.79
120	Industrial Sub 69 kV	Huber Gen 69 kV	1.23	54	43.2	53.14
121	Industrial Sub 69 kV	Sid Richardson (Phillips) Gen 69 kV	1.14	54	43.2	49.25
122	Industrial Sub 69 kV	Camex/Transpetco Sub 69 kV	1.74	88	70.4	122.50
123	Irick Sub 69 kV	Barwise Sub 69 kV	3.66	54	43.2	158.11
124	Ivory Sub 69 kV	Batton Sub South 69 kV	5.03	54	43.2	217.30
125	Ivory Sub 69 kV	Ivory Tap 69 kV	0.02	54	43.2	0.86
126	Ivory Sub 69 kV	Lubbock South Interchange 69 kV	1.11	54	43.2	47.95
127	Ivory Tap 69 kV	Lubbock South Interchange 69 kV	1.11	54	43.2	47.95
128	Jaybee Sub 69 kV	Lyntegar REC-Seagraves 69 kV	1.87	88	70.4	131.65
129	Kinney Sub 69 kV	Tokio Tap 69 kV	6.00	54	43.2	259.20
130	Kiser Sub 69 kV	East Plainview Sub 69 kV	3.82	54	43.2	165.02
131	Kite Sub 69 kV	Lyons Tap 69 kV	3.47	88	70.4	244.29
132	Kress Interchange 69 kV	Kress Rural Sub 69 kV	7.46	54	43.2	322.27
133	Kress Rural Sub 69 kV	Lighthouse REC-Plainview 69 kV	10.06	54	43.2	434.59
134	Lamb County Interchange 69 kV	Lamb County REC-Littlefield 69 kV	1.66	88	70.4	116.86
135	Lamb County Interchange 69 kV	Lamb County REC-Lums Chapel 69 kV	2.10	54	43.2	90.72
136	Lamb County REC – North Olton Sub 69 kV	Lamton Interchange 69 kV	5.76	54	43.2	248.83
137	Lamb County REC-Beck 69 kV	Sudan Rural Sub 69 kV	1.61	88	70.4	113.34
138	Lamb County REC-Hart#2 69 kV	Lamb County REC – North Olton Sub 69 kV	2.80	54	43.2	120.96
139	Lamb County REC-Hodge 69 kV	Ellwood Sub 69 kV	4.70	54	43.2	203.04
140	Lamb County REC-Hodge Tap 69 kV	Lamb County REC-Whitharral 69 kV	1.50	54	43.2	64.80
141	Lamb County REC-Levelland #2 69 kV	Hockley County Interchange 69 kV	1.70	54	43.2	73.44
142	Lamb County REC-Littlefield 69 kV	West Anton Tap 69 kV	2.03	88	70.4	142.91
143	Lamb County REC-Lums Chapel 69 kV	Hobgood Sub 69 kV	3.20	54	43.2	138.24
144	Lamb County REC-Olton 69 kV	Lamton Interchange 69 kV	1.50	54	43.2	64.80
145	Lamb County REC-Pettit 69 kV	Coble Sub 69 kV	3.70	54	43.2	159.84
146	Lamb County REC-Sandhill 69 kV	Amherst Sub 69 kV	2.60	88	70.4	183.04
147	Lamb County REC-Spade & Hart Camp 69 kV	County Line Sub Tap 69 kV	5.89	88	70.4	414.66
148	Lamb County REC-Whiteface 69 kV	Whiteface Sub Tap 69 kV	5.08	36	28.8	146.30
149	Lamb County REC-Whitharral 69 kV	Lamb County REC-Levelland #2 69 kV	4.90	54	43.2	211.68
150	Lamton Interchange 69 kV	Corner 69 kV	14.40	54	43.2	622.08
151	Lariat Sub 69 kV	Bailey County REC-Lariat Sub Tap 69 kV	2.33	88	70.4	164.03
152	Lawrence Park Sub 1 (East) 69 kV	South Georgia Interchange 69 kV	1.91	60	48.0	91.68
153	Lea County REC-KCM 69 kV	Mid America Tap 69 kV	3.00	54	43.2	129.60
154	Legacy Interchange 69 kV	XTO-Robertson 69kV	5.16	54	43.2	222.91
155	Legacy Interchange 69 kV	Tenneco Sub Tap 69 kV	2.46	54	43.2	106.27
156	Levelland City Tap 69 kV	Levelland City Sub 69 kV	1.10	54	43.2	47.52

Southwestern Public Service Company

Wheeling Information

Line No.	LINE DESCRIPTION FROM	TO	LENGTH (miles)	THERMAL RATING (MVA)	80% THERMAL RATING (MVA)	MW - MILES
157	Levelland City Tap 69 kV	East Levelland Sub 69 kV	0.29	54	43.2	12.53
158	Lighthouse REC-Aiken 69 kV	Irick Sub 69 kV	4.45	54	43.2	192.24
159	Lighthouse REC-Cedar Hill 69 kV	Lighthouse REC-Lone Star Tap 69 kV	4.37	36	28.8	125.86
160	Lighthouse REC-Crosbyton 69 kV	Hendricks Sub 69 kV	0.40	54	43.2	17.28
161	Lighthouse REC-Harmony 69 kV	Lighthouse REC-Petersburg 69 kV	7.60	36	28.8	218.88
162	Lighthouse REC-Lone Star 69 kV	Lighthouse REC-Lone Star Tap 69 kV	1.00	36	28.8	28.80
163	Lighthouse REC-Plainview 69 kV	Switch 9748 69 kV	2.18	54	43.2	94.18
164	Lighthouse REC-Plainview+AA882:AC882 69 kV	Lighthouse REC-Silverton 69 kV	6.10	54	43.2	263.52
165	Lighthouse REC-Silverton 69 kV	Lighthouse REC-South Plains 69 kV	10.00	54	43.2	432.00
166	Lighthouse REC-Wilson 69 kV	South Plains REC-Becton 69 kV	1.97	54	43.2	85.10
167	Lockney Sub 69 kV	Lighthouse REC-Cedar Hill 69 kV	3.48	36	28.8	100.22
168	Lubbock East Interchange 69 kV	Clutter Sub 69 kV	2.71	54	43.2	117.07
169	Lubbock East Interchange 69 kV	Slaton Sub 69 kV	12.38	54	43.2	534.82
170	Lynn County Interchange 69 kV	Lyntegar REC-Draw 69 kV	7.61	54	43.2	328.75
171	Lyntegar REC-Ashmore 69 kV	Adair Sub 69 kV	2.91	41	32.8	95.45
172	Lyntegar REC-Brownfield 69 kV	Brownfield Switching Station 69 kV	2.00	54	43.2	86.40
173	Lyntegar REC-Central 69 kV	Lyntegar REC-Draw 69 kV	4.10	54	43.2	177.12
174	Lyntegar REC-Dixon 69 kV	Brownfield Switching Station 69 kV	9.50	54	43.2	410.40
175	Lyntegar REC-Dixon 69 kV	Ozark Mahoning #1 Tap 69 kV	4.60	54	43.2	198.72
176	Lyntegar REC-Doc Webber 69 kV	Terry County Interchange 69 kV	2.50	54	43.2	108.00
177	Lyntegar REC-Hackberry 69 kV	Diekemper Sub 69 kV	10.80	54	43.2	466.56
178	Lyntegar REC-Jess Smith 69 kV	Wellman Sub 69 kV	7.40	54	43.2	319.68
179	Lyntegar REC-Lakeview 69 kV	Lyntegar REC-New Moore 69 kV	0.98	54	43.2	42.34
180	Lyntegar REC-Lakeview 69 kV	Ozark Mahoning #1 Tap 69 kV	4.50	54	43.2	194.40
181	Lyntegar REC-McConal & Seminole 69 kV	Lyntegar REC-Sawyer Flat 69 kV	6.99	88	70.4	492.10
182	Lyntegar REC-Meadow 69 kV	Lyntegar REC-Doc Webber 69 kV	2.80	54	43.2	120.96
183	Lyntegar REC-New Home & Wilson 69 kV	Lynn County Interchange 69 kV	4.00	54	43.2	172.80
184	Lyntegar REC-New Moore 69 kV	Lyntegar REC-New Home & Wilson 69 kV	10.20	54	43.2	440.64
185	Lyntegar REC-Two Draw 69 kV	Diekemper Sub 69 kV	0.06	54	43.2	2.59
186	Lyntegar REC-Wellman 69 kV	Seagraves Interchange 69 kV	6.05	54	43.2	261.36
187	Lyons Tap 69 kV	Lyons Sub 69 kV	3.94	88	70.4	277.38
188	Lyons Tap 69 kV	Bowers Interchange 69 kV	13.96	88	70.4	982.78
189	Magic City Switch 69 kV	Howard Sub 69 kV	5.70	41	32.8	186.96
190	Magic City Switch 69 kV	Demarcation Bus Location 69kV	8.30	41	32.8	272.24
191	Mallet Sub 69 kV	Texaco Sub 69 kV	2.42	54	43.2	104.54
192	McCullough Sub 69 kV	Kingsmill Interchange 69 kV	4.71	88	70.4	331.58
193	McCullough Sub 69 kV	Bowers Interchange 69 kV	5.79	88	70.4	407.62
194	Mid-American #2 Sub 69 kV	Whitharral Sub 69 kV	0.50	54	43.2	21.60
195	Middleton Sub 69 kV	Mallet Sub 69 kV	2.62	88	70.4	184.45
196	Mississippi West No.2 Sub 69 kV	I. M. C. #2 Sub 69 kV	4.18	88	70.4	294.27
197	Morton Sub 69 kV	Bailey County REC-South Bailey 69kV	1.04	36	28.8	29.95
198	Muleshoe City Sub 69 kV	Bailey County Interchange 69 kV	2.10	88	70.4	147.84
199	Navajo No.1 Sub 69 kV	Artesia Town Sub 69 kV	0.34	54	43.2	14.69
200	Navajo-Malaga Tap 69kV	Navajo-Malaga Sub 69 kV	2.88	54	43.2	124.42
201	New Mexico Potash Sub 69 kV	Kermac Sub 69 kV	2.28	54	43.2	98.50
202	North Plains REC-Hemphill 69 kV	Canadian Sub 69 kV	7.48	149	119.2	891.62
203	Northeast Miami Breaker Station 69 kV	Canadian Sub 69 kV	23.67	149	119.2	2821.46
204	Northwest Interchange 69 kV	North Amarillo Switching Station 69 kV	3.09	54	43.2	133.49
205	Northwest Tap 69 kV	Northwest Interchange 69 kV	3.20	88	70.4	225.28
206	Northwest Tap 69 kV	Soncy Sub Tap 69 kV	1.21	88	70.4	85.18
207	Olton Sub 69 kV	Lamb County REC-Olton 69 kV	0.73	54	43.2	31.54
208	Oxy Denver City West 69 kV	Denver City East Sub 69 kV	2.58	54	43.2	111.46
209	Ozark Mahoning #2 Sub 69 kV	Lyntegar REC-Sawyer Flat 69 kV	4.44	54	43.2	191.81
210	PCA Interchange 69 kV	Central Valley REC-Lusk 69 kV	11.11	54	43.2	479.95
211	PCA Interchange 69 kV	National Potash Tap 69 kV	4.67	88	70.4	328.77
212	Phillips No.2 Sub 69 kV	Weatherly Sub 69 kV	5.44	88	70.4	382.98
213	Phillips Pump #2	Yellow House Sub 69kV	4.11	54	43.2	177.55
214	Phillips Pump #2 & Yellow House Subs Tap 69 kV	Yellow House Sub 69kV	6.89	54	43.2	297.65
215	Phillips Pump #2 & Yellow House Subs Tap 69 kV	Mid-American #2 Sub 69 kV	4.00	54	43.2	172.80
216	Phillips Pump No.1 Sub 69 kV	Phillips Pump No.1 TAP 69 kV	7.49	54	43.2	323.57
217	Phillips Pump No.1 TAP 69 kV	Switch #7848 / Switch #7814 69 kV	2.48	54	43.2	107.14
218	Plainview Tap 69 kV	Hale Co Interchange 69 kV	0.46	88	70.4	32.38
219	Plainview Tap 69 kV	Lighthouse REC-Hale Center 69 kV	4.89	54	43.2	211.25
220	Planters Sub 69 kV	Lubbock East Interchange 69 kV	2.03	54	43.2	87.70
221	Portales E.F.D.C. Sub 69 kV	Market Street Sub 69 kV	0.15	54	43.2	6.48
222	Portales Interchange 69 kV	Zodiac Sub 69 kV	2.43	54	43.2	104.98
223	Portales Interchange 69 kV	Portales No.1 Sub 69 kV	2.20	54	43.2	95.04
224	Portales No.1 Sub 69 kV	Portales No.2 Sub 69 kV	1.18	36	28.8	33.98
225	Portales No.2 Sub 69 kV	Market Street Sub 69 kV	1.66	54	43.2	71.71
226	Potash Junction Interchange 69 kV	Duval #1 Sub 69 kV	2.60	54	43.2	112.32
227	Potash Junction Interchange 69 kV	Kermac Sub 69 kV	9.51	54	43.2	410.83
228	Potash Junction Interchange 69 kV	Mississippi West No.2 Sub 69 kV	1.71	88	70.4	120.38
229	Potash Junction Interchange 69 kV	National Potash Tap 69 kV	0.05	88	70.4	3.52
230	Riley Sub Tap 69 kV	Mid America Tap 69 kV	3.00	54	43.2	129.60
231	Riley Sub Tap 69 kV	Gaines County Interchange 69 kV	0.44	54	43.2	19.01
232	Riley Sub Tap 69 kV	Riley Sub 69 kV	0.44	54	43.2	19.01
233	Rita Blanca REC-Dallam County 69 kV	Dalhart Interchange 69 kV	1.34	88	70.4	94.34
234	Riverview Interchange 69 kV	Rocky Point Sub 69 kV	3.60	54	43.2	155.52
235	Riverview Interchange 69 kV	Industrial Sub 69 kV	4.36	88	70.4	306.94

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Line No.	LINE DESCRIPTION FROM	TO	LENGTH (miles)	THERMAL RATING (MVA)	80% THERMAL RATING (MVA)	MW - MILES
236	Riverview Interchange 69 kV	Phillips No.1 Sub 69 kV	4.01	88	70.4	282.30
237	Roberts County Sub 69 kV	Northeast Miami Breaker Station 69 kV	6.61	149	119.2	787.91
238	Roberts County Sub 69 kV	Bowers Interchange 69 kV	18.75	149	119.2	2235.00
239	Rocky Point Sub 69 kV	Spring Creek Sub 69 kV	4.55	54	43.2	196.56
240	Roswell Interchange 69 kV	Switch #4702 69 kV	1.49	88	70.4	104.90
241	Roxana Sub 69 kV	Damron (Mid America #4) Sub 69 kV	3.42	54	43.2	147.74
242	Seagraves Interchange 69 kV	Moss Sub 69 kV	0.52	88	70.4	36.61
243	Seagraves Interchange 69 kV	Lyntegar REC-McConal & Seminole 69 kV	10.40	88	70.4	732.16
244	Slaton Sub 69 kV	South Plains REC-Slaton 69 kV	3.10	54	43.2	133.92
245	Slaughter Sub 69 kV	Slaughter Tap 69 kV	5.48	54	43.2	236.74
246	Slaughter Tap 69 kV	Lyntegar REC-Meadow 69 kV	2.03	54	43.2	87.70
247	Smith Sub 69 kV	Artesia Interchange 69 kV	0.01	88	70.4	0.70
248	Soncy Sub 69 kV	Lawrence Park Sub 2 (West) 69 kV	3.24	60	48.0	155.52
249	Soncy Sub 69 kV	Soncy Sub Tap 69 kV	1.00	88	70.4	70.40
250	South Floydada Sub 69 kV	Lighthouse REC-Floydada 69 kV	0.12	54	43.2	5.18
251	South Littlefield & Littlefield City Sub 69 kV	Lamb County Interchange 69 kV	2.70	36	28.8	77.76
252	South Littlefield & Littlefield City Sub 69 kV	West Anton Tap 69 kV	4.70	36	28.8	135.36
253	South Loving Tap 69 kV	Carlsbad Waterfield Tap 69 kV	1.75	36	28.8	50.40
254	South Loving Tap 69 kV	Navajo-Malaga Tap 69kV	5.70	54	43.2	246.24
255	South Plains REC-Abernathy 69 kV	Tuco Interchange 69 kV - 2nd Bus	5.89	88	70.4	414.66
256	South Plains REC-Acuff 69 kV	Crosby County Interchange 69 kV	10.40	54	43.2	449.28
257	South Plains REC-Acuff 69 kV	Vickers Sub 69 kV	1.11	54	43.2	47.95
258	South Plains REC-Becton 69 kV	Allmon Sub 69 kV	5.01	54	43.2	216.43
259	South Plains REC-Carlisle 69 kV	Switch #6878 69 kV	5.99	54	43.2	258.77
260	South Plains REC-Crosby County 69 kV	Crosby County Interchange 69 kV	1.04	54	43.2	44.93
261	South Plains REC-Halfway 69 kV	Hale Co Interchange 69 kV	1.11	54	43.2	47.95
262	South Plains REC-Hettler 69 kV	South Plains REC-Idalou 69 kV	5.63	54	43.2	243.22
263	South Plains REC-Idalou 69 kV	Vickers Sub 69 kV	1.34	54	43.2	57.89
264	South Plains REC-New Deal 69 kV	Monroe Sub 69kV	3.04	54	43.2	131.33
265	South Plains REC-Shallowater 69 kV	Stanton Sub North Bus 69 kV	5.00	54	43.2	216.00
266	South Plains REC-Slaton 69 kV	Southland Sub 69 kV	4.50	54	43.2	194.40
267	South Plainview Sub 69 kV	Hale Co Interchange 69 kV	10.08	54	43.2	435.46
268	South Portales Sub 69 kV	Market Street Sub 69 kV	1.92	54	43.2	82.94
269	Southland Sub 69 kV	Lyntegar REC-Hackberry 69 kV	4.80	54	43.2	207.36
270	Southwest Portland Cement Tap 69 kV	Northwest Tap 69 kV	8.77	88	70.4	617.41
271	Spring Creek Sub 69 kV	Kingsmill Interchange 69 kV	22.26	54	43.2	961.63
272	Springlake Sub 69 kV	Olton Sub 69 kV	10.47	54	43.2	452.30
273	Stanton Sub North Bus 69 kV	Stanton Sub South Bus 69 kV	0.00	72	57.6	0.00
274	Stanton Sub North Bus 69 kV	Switch #6786 North Side Of Switch 69 kV	4.50	54	43.2	194.40
275	Stanton Sub South Bus 69 kV	Switch #6786 South Side Of Switch 69 kV	4.47	54	43.2	193.10
276	Strata Sub 69 kV	I. M. C. #3 Sub 69 kV	0.10	54	43.2	4.32
277	Sudan Rural Sub 69 kV	Lamb County REC-Sandhill 69 kV	4.10	88	70.4	288.64
278	Sulphur Springs Interchange 69 kV	Lyntegar REC-Foster 69 kV	3.09	54	43.2	133.49
279	Switch #2749 69 kV	Southwest Portland Cement Tap 69 kV	4.96	88	70.4	349.18
280	Switch #4702 69 kV	Central Valley REC-Orchard 69 kV	9.62	88	70.4	677.25
281	Switch #6786 North Side Of Switch 69 kV	Switch #6786 South Side Of Switch 69 kV	0.00	72	57.6	0.00
282	Switch #6786 North Side Of Switch 69 kV	South Plains REC-Hettler 69 kV	4.63	54	43.2	200.02
283	Switch #6786 South Side Of Switch 69 kV	Planters Sub 69 kV	1.09	54	43.2	47.09
284	Switch #6878 69 kV	Batton Sub North 69 kV	4.35	54	43.2	187.92
285	Switch #7848 / Switch #7814 69 kV	Oxy Denver City West 69 kV	0.64	54	43.2	27.65
286	Switch #7848 / Switch #7814 69 kV	Switch #7814 69 kV	5.83	54	43.2	251.86
287	Switch 3710 69kV Bus	Aiken Rural Sub 69 kV	1.48	54	43.2	63.94
288	Switch 3710 69kV Bus	Lighthouse REC-Aiken 69 kV	4.26	54	43.2	184.03
289	Switch 3710 69kV Bus	Lockney Sub 69 kV	3.47	54	43.2	149.90
290	Switch 6865 & 6867 69kV	Lamb County REC-Pettit 69 kV	2.62	54	43.2	113.18
291	Switch 6865 & 6867 69kV	Cochran Interchange 69 kV	4.30	90	72.0	309.60
292	Switch 9748 69 kV	Kiser Sub 69 kV	1.61	54	43.2	69.55
293	Tenneco Sub Tap 69 kV	Tenneco Sub 69 kV	0.99	54	43.2	42.77
294	Terry County Interchange 69 kV	Lyntegar REC-Brownfield 69 kV	5.93	54	43.2	256.18
295	Texaco Sub 69 kV	Zavalla Sub 69 kV	6.44	88	70.4	453.38
296	Tokio Sub 69 kV	Lyntegar REC-Tokio 69 kV	0.11	54	43.2	4.75
297	Tokio Sub 69 kV	Kinney Sub 69 kV	9.04	54	43.2	390.53
298	Tokio Tap 69 kV	Lyntegar REC-Seagraves 69 kV	2.66	88	70.4	187.26
299	Tokio Tap 69 kV	Moss Sub 69 kV	4.19	88	70.4	294.98
300	Tuco Interchange 69 kV	Lighthouse REC-Wilson 69 kV	8.83	54	43.2	381.46
301	Tuco Interchange 69 kV	South Plains REC-New Deal 69 kV	7.23	54	43.2	312.34
302	Union Texas Sub 69 kV	Lyntegar REC-Foster 69 kV	2.17	54	43.2	93.74
303	United Salt Sub 69 kV	Strata Sub 69 kV	4.00	54	43.2	172.80
304	Van Buren Sub 1 69 kV (North Auto)	Van Buren Sub 2 69 kV (South Auto)	0.00	79	63.2	0.00
305	Van Buren Sub 1 69 kV (North Auto)	East Plant Interchange 69 kV	4.25	86	68.8	292.40
306	Van Buren Sub 2 69 kV (South Auto)	East Plant Interchange 69 kV	2.08	88	70.4	146.43
307	Vega Sub 69 kV	Wildorado 69 kV	14.06	54	43.2	607.39
308	Wasson Sub 69 kV	Switch #7814 69 kV	6.69	54	43.2	289.01
309	Wasson Sub 69 kV	Denver City Interchange 69 kV	2.37	54	43.2	102.38
310	Waterfield Tap 69 kV	Soncy Sub Tap 69 kV	1.90	88	70.4	133.76
311	Waterfield Tap 69 kV	Coulter Interchange 69 kV	1.12	88	70.4	78.85
312	Weatherly Sub 69 kV	Hutchinson County Interchange 69 kV	2.55	88	70.4	179.52
313	Wellman Sub 69 kV	Lyntegar REC-Wellman 69 kV	1.00	54	43.2	43.20
314	Wellman Sub 69 kV	Union Texas Sub 69 kV	4.26	54	43.2	184.03

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Line No.	LINE DESCRIPTION FROM	TO	LENGTH (miles)	THERMAL RATING (MVA)	80% THERMAL RATING (MVA)	MW - MILES
315	West Anton Tap 69 kV	Lamb County REC-Spade & Hart Camp 69 kV	7.56	88	70.4	532.22
316	West Anton Tap 69 kV	Bainer Sub 69 kV	1.83	54	43.2	79.06
317	West Clovis Sub 69 kV	Curry County Interchange 69 kV	8.14	54	43.2	351.65
318	West Littlefield Sub 69 kV	Lamb County Interchange 69 kV	7.00	54	43.2	302.40
319	West Muleshoe Sub 69 kV	Muleshoe City Sub 69 kV	0.54	88	70.4	38.02
320	West Plainview Sub 69 kV	Kiser Sub 69 kV	2.10	54	43.2	90.72
321	West Plainview Sub 69 kV	Westridge Sub Tap 69kV	7.09	88	70.4	499.14
322	Westridge Sub Tap 69kV	Westridge Sub 69 kV	4.05	88	70.4	285.12
323	Westridge Sub Tap 69kV	Plainview Tap 69 kV	3.98	88	70.4	280.19
324	Whiteface Sub 69 kV	Whiteface Sub Tap 69 kV	0.26	38	30.4	7.90
325	Whiteface Sub Tap 69 kV	Switch 6865 & 6867 69kV	0.11	38	30.4	3.34
326	Whitehead Sub 69kV	Monroe Sub 69kV	0.57	54	43.2	24.62
327	Whitehead Sub 69kV	South Plains REC-Shallowater 69 kV	3.39	54	43.2	146.45
328	Whitharral Sub 69 kV	Lamb County REC-Hodge Tap 69 kV	1.50	54	43.2	64.80
329	Wildorado 69 kV	Switch #2749 69 kV	3.60	35	28.0	100.80
330	XTO-Robertson 69kV	Boardman Sub 69 kV	2.04	54	43.2	88.13
331	Yancy Sub 69 kV	Big Country REC-Yancy Tap 69 kV	2.50	54	43.2	108.00
332	Yancy Tap 69 kV	Garza Sub 69 kV	0.21	54	43.2	9.07
333	Yancy Tap 69 kV	Lyntegar REC-Central 69 kV	11.72	54	43.2	506.30
334	Yancy Tap 69 kV	Big Country REC-Yancy Tap 69 kV	0.50	54	43.2	21.60
335	Zavalla Sub 69 kV	Slaughter Sub 69 kV	0.91	54	43.2	39.31
336	Zodiac Sub 69 kV	South Portales Sub 69 kV	2.20	54	43.2	95.04
337		**69-kV TOTAL**	**1446.81**			**75,789.31**
	115-kV TRANSMISSION LINES					
338	34th Street Sub Tap 115 kV	34th Street Sub 115 kV	1.22	93	74.6	90.96
339	34th Street Sub Tap 115 kV	Coulter Interchange 115 kV	0.96	120	96.0	92.16
340	34th Street Sub Tap 115 kV	Western Sub 115kV	1.11	159	127.1	141.10
341	AGAVE Red Hills 115 kV	Ochoa Sub 115 kV	0.39	159	127.2	49.61
342	Allen Sub 115 kV	Wheelock Sub 115 kV	1.94	60	48.0	93.12
343	Allen Sub 115 kV	South Plains REC-Quaker 115 kV	3.57	120	96.0	342.72
344	Allen Sub 115 kV	Lubbock South Interchange 115 kV	5.98	159	127.2	760.66
345	Allred Subs 115 kV	Allred/Cortez Tap 115 kV	0.95	159	127.1	120.76
346	Allred/Cortez Tap 115 kV	XTO Cornell Sub 115 kV	1.84	275	220.0	404.80
347	Am Frac Sub 115 kV	Mid America #1 Sub 115 kV	0.65	93	74.6	48.46
348	Amarillo South Interchange 115 kV	Spring Draw Sub 115 kV	7.79	138	110.4	860.02
349	Amerada Hess Co2 Sub 115 kV	Seminole Interchange 115 kV	2.53	159	127.2	321.82
350	Amoco Tap 115 kV	Amoco (Amoco Cryogenics) Sub 115 kV	4.86	120	95.6	464.62
351	Amoco Tap 115 kV	Lyntegar REC-Levelland 115 kV	2.01	159	127.2	255.67
352	Andrews 115 kV Bus	National Enrichment Plant Sub 115 kV	2.00	478	382.4	764.80
353	Apache-Roberts Sub 115 kV (customer sub)	Allred Subs 115 kV	1.00	159	127.1	127.12
354	ARCO-Willard Tap 115 kV	OXY-Willard Sub 115 kV	1.54	159	127.1	195.76
355	Arrowhead Sub 115 kV	Amarillo South Interchange 115 kV	3.38	159	127.2	429.94
356	Artesia Country Club Road Sub Tap 115 kV	Artesia Country Club Road and 13th St Sub 115 k'	3.00	273	218.4	655.20
357	Artesia Country Club Road Sub Tap 115 kV	Atoka Interchange 115 kV	5.04	275	220.0	1108.80
358	Artesia Interchange 115 kV	Eagle Creek 115 kV	1.11	159	127.2	141.19
359	ASARCO Sub 115 kV	ASARCO TAP 115 kV	0.77	159	127.1	97.88
360	ASARCO TAP 115 kV	Nichols Station 115 kV	0.21	159	127.2	26.71
361	Atoka Interchange 115 kV	Central Valley REC- Dayton 115 kV	1.01	159	127.2	128.47
362	Atoka Interchange 115 kV	Central Valley REC-Irish Hills 115 kV	4.75	159	127.2	604.20
363	Bailey County REC-Earth Interchange 115 kV	Plant X Station 115 kV	10.75	120	95.6	1027.70
364	Bailey County REC-Kelley 115kV	Bailey County REC-Earth Interchange 115 kV	3.88	159	127.2	493.54
365	Bennett Sub 115 kV	ARCO-Willard Tap 115 kV	0.16	159	127.2	20.35
366	Bennett Sub 115 kV	ODC Tap 115 kV	0.04	159	127.2	5.09
367	Blackhawk Interchange East Bus 115 kV	Quench Ryton Plant Tap 115 kV	0.48	159	127.2	61.06
368	Blackhawk Interchange West Bus 115 kV	Hutchinson County Interchange N. 115 kV	11.94	120	96.0	1146.24
369	Blanco Switching Station 115kV	Crosby County Interchange 115 kV	8.92	96	76.8	685.06
370	BOPCO Poker Lake Substation 115 kV	WolfCamp Sub Tap 115kV	0.78	384	307.2	239.62
371	Bowers Interchange 115 kV	Grapevine Interchange 115 kV	3.86	277	221.6	855.38
372	Bowers Interchange 115 kV	Howard Sub 115 kV	36.80	252	201.6	7418.88
373	Brasher-Sierra Tap 115kV	SWITCH 4J795 Eastside 115kV	0.47	276	220.8	103.78
374	Brasher-Sierra Tap 115kV	Brasher Sub 115 kV	0.68	93	74.4	50.59
375	Brasher-Sierra Tap 115kV	Sierra Sub 115kV	1.97	276	220.8	434.98
376	Buckeye Tap 115 kV	Buckeye Sub 115 kV	1.10	141	113.0	124.26
377	Byrd Sub Tap 115 kV	Byrd Sub 115 kV	0.85	143	114.4	97.24
378	Camex/Agrium Tap 115 kV	Camex/Agrium Sub 115 kV	0.50	159	127.1	63.56
379	Camex/Agrium Tap 115 kV	West Borger Sub Tap 115 kV	2.70	160	128.0	345.60
380	Camex/Agrium Tap 115 kV	Hutchinson County Interchange N. 115 kV	1.10	159	127.2	139.92
381	Cannon A.F.B. Sub Tap 115 kV	Cannon A.F.B. Sub 115 kV	0.89	160	127.9	113.85
382	Cannon A.F.B. Sub Tap 115 kV	Perimeter Sub 115 kV	7.30	158	126.4	922.72
383	Canyon East Tap 115 kV	Canyon East Sub 115 kV	0.99	80	63.8	63.12
384	Canyon West Sub 115 kV	Canyon East Tap 115 kV	3.78	275	220.0	831.60
385	Canyon West Sub 115 kV	Dawn Sub 115 kV	15.01	258	206.4	3098.06
386	Capitan Sub 115 kV	Roswell Interchange 115 kV	8.96	215	172.0	1541.12
387	Cardinal Sub 115 kV	Targa Subs 115 kV	3.00	276	220.8	662.40
388	Cargill Sub 115 kV	Friona Sub 115 kV	1.27	96	76.8	97.54
389	Cargill Sub 115 kV	Deaf Smith REC-#24 115 kV	7.74	95	76.0	588.24
390	Carlisle Interchange 115 kV	Lubbock Power & Light-Doud Substation Tap 115	2.29	120	96.0	219.84

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Line No.	LINE DESCRIPTION FROM	TO	LENGTH (miles)	THERMAL RATING (MVA)	80% THERMAL RATING (MVA)	MW - MILES
391	Carlisle Interchange 115 kV	Murphy Sub 115 kV	3.98	139	111.2	442.58
392	Carlsbad Interchange 115 kV	Pecos Interchange 115 kV	1.83	120	96.0	175.68
393	Carson Sub 115 kV	Martin Sub 115 kV	1.20	93	74.6	89.47
394	Castro County Interchange 115 kV	Bailey County REC-Kelley 115kV	10.48	159	127.2	1333.06
395	Castro County Interchange 115 kV	Newhart Interchange 115 kV	17.88	159	127.2	2274.34
396	Central Valley REC-Azotea Mesa Transmission Tap 11	Seven Rivers Interchange 115 kV	4.97	159	127.2	632.18
397	Central Valley REC-Azotea Mesa Transmission Tap 11	Pecos Interchange 115 kV	12.55	159	127.2	1596.36
398	Central Valley REC-Lakewood 115 kV	Central Valley REC-Irish Hills 115 kV	3.24	159	127.2	412.13
399	Chaves County Interchange 115 kV	Urton Sub 115 kV	3.70	159	127.2	470.64
400	Chaves County Interchange 115 kV	Price Sub Tap 115 kV	4.47	275	220.0	983.40
401	Chaves County Interchange 115 kV	Samson Sub 115 kV	7.78	159	127.2	989.62
402	China Draw Substation 115 kV	China Draw SVC 115 kV	0.00	200	160.0	0.00
403	China Draw Substation 115 kV	Wood Draw Substation 115 kV	20.00	277	221.6	4432.00
404	China Draw Substation 115 kV	Chevron Eddy South Sub 115kV	3.80	276	220.8	839.04
405	Coburn Creek 115 kV Sub	Wheeler County Interchange 115 kV	10.85	160	128.0	1388.80
406	Cochran Interchange 115 kV	Pacific Sub 115 kV	7.50	159	127.2	954.00
407	Cole Interchange 115 kV	Tri Co REC- Aggie Sub 115kV	2.95	159	127.2	375.24
408	Cole Interchange 115 kV	Ochilltree Interchange 115 kV	16.37	277	221.6	3627.59
409	Conway Sub 115 kV	Kirby Switching Station 115 kV	25.18	159	127.2	3202.90
410	Cooper Ranch Sub 115 kV	Byrd Sub Tap 115 kV	4.86	143	114.4	555.98
411	Cortez Sub 115 kV	Apache-Roberts Sub 115 kV (customer sub)	1.48	159	127.1	188.14
412	Coulter Interchange 115 kV	Estacado Tap 115 kV	1.92	159	127.2	244.22
413	Cox Interchange 115 kv	Hale Co Interchange 115 kV	19.80	96	76.8	1520.64
414	Cox Interchange 115 kv	Floyd County Interchange 115 kV	21.30	159	127.2	2709.36
415	CRMWA #1 115 kV	CRMWA #1 Tap 115 kV	2.08	128	102.5	213.16
416	CRMWA #1 Tap 115 kV	CRMWA #2 115 kV	0.31	160	128.0	39.68
417	CRMWA #2 115 kV	Fritch Rural Sub 115 kV	2.45	120	96.0	235.20
418	CRMWA #3 115 kV	Fritch Rural Sub 115 kV	6.37	120	96.0	611.52
419	CRMWA #3 115 kV	Meredith Sub 115 kV	10.09	159	127.2	1283.45
420	CRMWA #4 115 kV	Meredith Sub 115 kV	4.14	159	127.2	526.61
421	CRMWA #4 115 kV	Nichols Station 115 kV	7.45	159	127.2	947.64
422	Crosby County Interchange 115 kV	Lubbock East Interchange 115 kV	27.26	159	127.2	3467.47
423	Crouse Hinds Sub Tap 115 kV	Crouse Hinds Sub 115 kV	0.76	159	127.2	96.67
424	Cunningham Station 115 kV	Hobbs Interchange 115 kV	3.20	159	127.2	407.04
425	Cunningham Station 115 kV	Hobbs Interchange 115 kV	3.67	159	127.2	466.82
426	Cunningham Station 115 kV	Buckeye Tap 115 kV	8.55	249	199.2	1703.16
427	Cunningham Station 115 kV	Maddox Station 115 kV	3.19	239	191.2	609.93
428	Cunningham Station 115 kV	Quahada Sub 115 kV	27.14	158	126.4	3430.50
429	Cunningham Station 115 kV	Monument Tap 115 kV	6.51	159	127.2	828.07
430	Curry County Interchange 115 kV	Farmers Electric REC-Clovis#2 115 kV	0.67	158	126.4	84.69
431	Curry County Interchange 115 kV	Roosevelt County Interchange 115 kV	6.10	158	126.4	771.04
432	Curry County Interchange 115 kV	Bailey County Interchange 115 kV	36.01	274	219.2	7893.39
433	Custer Mountain 115 kV	Ponderosa Sub 115 kV	10.75	276	220.8	2373.60
434	Custer Mountain 115 kV	Whitten Sub 115 kV	3.98	239	191.2	760.98
435	Dallam County Interchange 115 kV	Hilmar Cheese Plant Tap 115 kV	1.59	158	126.4	200.98
436	Dallam County Interchange 115 kV	Dalhart Interchange 115 kV	1.40	158	126.4	176.96
437	Dawn Sub 115 kV	Panda Energy Substation, Hereford 115 kV	8.43	239	191.2	1611.82
438	DCP Zia Sub Tap 115 kV	DCP Zia Sub 115 kV	0.70	249	199.2	139.44
439	Deaf Smith County Interchange West Bus 115 kV	Deaf Smith REC-#21 115 kV	21.56	159	127.2	2742.43
440	Deaf Smith REC-#20 115 kV	Curry County Interchange 115 kV	12.73	93	74.4	947.11
441	Deaf Smith REC-#21 115 kV	Castro County Interchange 115 kV	1.02	159	127.2	129.74
442	Deaf Smith REC-#25 115 kV Sub	Panda Energy Substation, Hereford 115 kV	1.96	275	220.0	431.20
443	Deaf Smith REC-#25 115 kV Sub	Deaf Smith County Interchange West Bus 115 kV	1.52	275	220.0	334.40
444	Deaf Smith REC-#6 115 kV	Friona Sub 115 kV	7.24	96	76.8	556.03
445	Denver City Interchange N. 115 kV	Mustang Interchange North Bus 115 kV	2.82	237	189.6	534.67
446	Denver City Interchange N. 115 kV	Higg East Sub 115 kV	12.81	159	127.2	1629.43
447	Denver City Interchange S. 115 kV	Mustang Interchange North Bus 115 kV	2.96	237	189.6	561.22
448	Diamondback Substation 115 kV	Sulphur Springs Interchange 115 kV	11.75	160	128.0	1504.00
449	Doss Interchange 115 kV	Legacy Interchange 115 kV	6.42	159	127.2	816.62
450	Drinkard Sub 115 kV	National Enrichment Plant Sub 115 kV	7.38	159	127.2	938.74
451	Drinkard Tap 115 kV	Drinkard Sub 115 kV	2.03	159	127.2	258.22
452	Dumas 19th Street Sub 34.5 kV	Exell Sub Tap 115 kV	15.09	120	96.0	1448.64
453	Eagle Creek 115 kV	Navajo No.2 Sub Tap 115 kV	0.55	159	127.1	69.92
454	Eagle Creek 115 kV	Navajo No.5 Sub Tap 115 kV	0.62	159	127.1	78.81
455	Eagle Creek 115 kV	Artesia Country Club Road Sub Tap 115 kV	15.96	275	220.0	3511.20
456	Eagle Creek 115 kV	Eddy County Interchange North 115 kV	9.53	159	127.2	1212.22
457	Eagle Creek 115 kV	Seven Rivers Interchange 115 kV	32.62	238	190.4	6210.85
458	East Clovis Sub 115 kV	Curry County Interchange 115 kV	5.46	158	126.4	690.14
459	East Muleshoe & Valley Substations 115 kV	East Muleshoe & Valley Substations Tap 115 kV	1.02	160	128.0	130.56
460	East Muleshoe & Valley Substations Tap 115 kV	Bailey County Interchange 115 kV	1.10	120	96.0	105.60
461	East Muleshoe & Valley Substations Tap 115 kV	Plant X Station 115 kV	18.11	120	96.0	1738.56
462	East Plant Interchange 115 kV	Pierce Street Tap 115 kV	1.06	159	127.2	134.83
463	East Plant Interchange 115 kV	Manhattan Sub 115 kV	3.32	159	127.2	422.30
464	East Sanger Sub 115 kV	South Hobbs Sub 115 kV	5.93	120	96.0	569.28
465	Eddy County Interchange South 115 kV	Central Valley REC- Dayton 115 kV	12.02	159	127.2	1528.94
466	Eddy County Interchange South 115 kV	Pecos Interchange 115 kV	27.16	192	153.4	4167.43
467	El Paso Sub 115 kV	Denver City Interchange N. 115 kV	3.94	159	127.2	501.17
468	Enron Tap 115 kV	Enron Sub 115 kV	1.81	120	95.9	173.62
469	Enron Tap 115 kV	Pearl Sub 115 kV	18.51	80	64.0	1184.64

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Line No.	LINE DESCRIPTION FROM	TO	LENGTH (miles)	THERMAL RATING (MVA)	80% THERMAL RATING (MVA)	MW - MILES
470	Enron Tap 115 kV	Lea National Sub 115 kV	0.17	120	96.0	16.32
471	Estacado Tap 115 kV	Estacado Sub 115 kV	0.83	159	127.1	105.51
472	Etter Rural Sub 115 kV	Moore County Interchange East Bus 115 kV	10.25	120	96.0	984.00
473	Eunice Sub 115 kV	Drinkard Tap 115 kV	3.08	159	127.2	391.78
474	Eunice Sub 115 kV	Cardinal Sub 115 kV	1.56	159	127.4	198.81
475	Exell Sub 115 kV	Exell Sub Tap 115 kV	2.50	159	127.1	317.80
476	Exell Sub Tap 115 kV	Fain Sub 115 kV	7.47	159	127.1	949.59
477	Fain Sub 115 kV	Nichols Station 115 kV	21.03	159	127.2	2675.02
478	Farmers Electric REC-Cheese Plant 115 kV Tap	Oasis Interchange 115 kV	7.80	130	104.0	811.20
479	Farmers Electric REC-Holland 115 kV	Farmers Electric REC-Clovis#2 115 kV	4.88	158	126.4	616.83
480	Farmers Sub 115 kV	Crouse Hinds Sub Tap 115 kV	0.09	159	127.1	11.44
481	Farmers Sub 115 kV	Amarillo South Interchange 115 kV	2.35	159	127.2	298.92
482	Fiesta Sub 115 kV	Carlsbad Interchange 115 kV	1.10	138	110.4	121.44
483	Floyd County Interchange 115 kV	Blanco Switching Station 115kV	16.87	159	127.2	2145.86
484	Floyd County Interchange 115 kV	Tuco Interchange 115 kV	25.16	120	96.0	2415.36
485	Frisco Wind Farm Tap 115kV	Lasley Switching Station 115 kV	16.41	159	127.2	2087.35
486	Gaines County Interchange 115 kV	Oxy West Seminole Tap 115 kV	0.80	154	123.2	98.56
487	Gaines County Interchange 115 kV	Legacy Interchange 115 kV	4.94	159	127.2	628.37
488	Grapevine Interchange 115 kV	Kirby Switching Station 115 kV	11.72	160	128.0	1500.16
489	Grassland Interchange 115 kV	Graham Interchange 115 kV	17.28	138	110.4	1907.71
490	Hale Co Interchange 115 kV	Plant X Station 115 kV	39.85	80	64.0	2550.40
491	Hale Co Interchange 115 kV	Tuco Interchange 115 kV	20.73	96	76.8	1592.06
492	Happy Interchange 115 kV	Tulia Tap 115 kV	7.47	239	191.2	1428.26
493	Hart Industrial 115 kV	Lamton Interchange 115 kV	17.60	159	127.2	2238.72
494	Hart Industrial 115 kV	Newhart Interchange 115 kV	9.30	159	127.2	1182.96
495	Hastings Sub 115 kV	East Plant Interchange 115 kV	5.34	275	220.0	1174.80
496	Hereford Interchange 115 kV	Deaf Smith County Interchange West Bus 115 kV	2.17	120	96.0	208.32
497	Hereford Interchange 115 kV	Deaf Smith County Interchange West Bus 115 kV	2.35	120	96.0	225.60
498	Hereford Interchange 115 kV	Deaf Smith REC-#6 115 kV	7.05	96	76.8	541.44
499	Herring Tap 115 kV	Herring Sub 115 kV	4.49	93	74.6	334.77
500	Herring Tap 115 kV	Rita Blanca REC-Sneed 115 kV	6.31	212	169.6	1070.18
501	Herring Tap 115 kV	Riverview Interchange 115 kV	11.45	213	170.4	1951.08
502	Higg East Sub 115 kV	Higg Switch Station 115 kV	1.00	159	127.2	127.20
503	Higg Switch Station 115 kV	Bensing Sub 115kV	13.60	159	127.2	1729.92
504	Highland Park Tap 115 kV	Pantex South Sub 115 kV	6.78	159	127.2	862.42
505	Highland Park Tap 115 kV	ASARCO TAP 115 kV	5.84	159	127.2	742.85
506	Highland Park Tap 115 kV	Highland Park Sub 115 kV	5.84	96	76.6	447.58
507	Hillside Substation 115kV	Coulter Interchange 115 kV	2.11	215	172.0	362.92
508	Hilmar Cheese Plant Tap 115 kV	Hilmar Cheese Plant 115 kV	0.49	158	126.7	62.09
509	Hilmar Cheese Plant Tap 115 kV	Rita Blanca REC-Exum Sub 115 kV	21.94	159	127.1	2789.01
510	Hitchland Interchange 115 kV	Frisco Wind Farm Tap 115kV	12.13	160	128.0	1552.64
511	Hitchland Interchange 115 kV	Hansford County Switch Station 115 kV	6.67	224	179.2	1195.26
512	Hobbs Interchange 115 kV	Maddox Station 115 kV	2.06	239	191.2	393.87
513	Hobbs Interchange 115 kV	Bensing Sub 115kV	13.60	159	127.2	1729.92
514	Hobbs Interchange 115 kV	Millen Sub Tap West 115 kV	10.15	143	114.4	1161.16
515	Hockley County Interchange 115 kV	Lamb County REC-Opdyke Sub 115 kV	3.70	159	127.2	470.64
516	Hutchinson County Interchange S. 115 kV	Gray County Interchange 115 kV	25.32	120	96.0	2430.72
517	Hutchinson County Interchange S. 115 kV	Martin Sub 115 kV	21.02	239	191.2	4019.02
518	I. M. C. #1 Sub Tap 115 kV	I. M. C. #1 Sub 115 kV	1.01	160	127.8	129.12
519	I. M. C. #1 Sub Tap 115 kV	XTO DI9 Sub Tap 115 kV	4.47	276	220.8	986.98
520	Ink Basin Sub 115kV Bus	Allred/Cortez Tap 115 kV	3.38	258	206.4	697.63
521	Ink Basin Sub 115kV Bus	Lea County REC-Waits Interchange 115 kV	6.07	211	168.8	1024.62
522	Intrepid West Tap 115 kV	I. M. C. #1 Sub Tap 115 kV	4.02	276	220.8	887.62
523	Jericho Substation (AEP) 115kV	Kirby Switching Station 115 kV	5.02	59	47.2	236.94
524	Johnson Draw 115 kV	Higg Switch Station 115 kV	8.24	96	76.8	632.83
525	Johnson Draw 115 kV	Taylor Switching Station 115 kV	11.93	159	127.2	1517.50
526	Kilgore Sub 115 kV (Zodiac 115kV)	South Portales Sub 115 kV	2.20	239	191.2	420.64
527	Kingsmill Interchange 115 kV	Llano Estacado Wind POI 115 kV	11.30	131	104.8	1184.24
528	Kiser Sub 115 kV	Cox Interchange 115 kv	10.00	159	127.2	1272.00
529	Kress Interchange 115 kV	Swisher County Interchange 115 kV	2.88	239	191.2	550.66
530	Kress Interchange 115 kV	Kress Rural Tap 115 kV	9.03	159	127.1	1147.89
531	Kress Interchange 115 kV	Hale Co Interchange 115 kV	18.40	80	64.0	1177.60
532	Kress Interchange 115 kV	Newhart Interchange 115 kV	20.02	159	127.2	2546.54
533	Kress Rural Sub 115 kV	Kress Rural Tap 115 kV	0.98	159	127.1	124.58
534	Kress Rural Tap 115 kV	North Plainview Sub 115 kV	12.11	159	127.1	1539.42
535	Lamb County Interchange 115 kV	Hockley County Interchange 115 kV	22.70	120	96.0	2179.20
536	Lamb County REC-Opdyke Sub 115 kV	Sundown Interchange 115 kV	13.52	120	96.0	1297.92
537	Lamb County REC-South Olton 115 kV	Plant X Station 115 kV	15.66	120	96.0	1503.36
538	Lamton Interchange 115 kV	Lamb County REC-South Olton 115 kV	6.44	129	103.2	664.61
539	Lamton Interchange 115 kV	Hale Co Interchange 115 kV	20.06	80	64.0	1283.84
540	LaPlata Sub 115 kV	Northeast Hereford Interchange 115 kV	7.50	276	220.8	1656.00
541	Lasley Switching Station 115 kV	Rita Blanca Elks Sub 115kV	0.60	159	127.2	76.32
542	Lea County REC-Plains Interchange 115 kV	Yoakum County Interchange 115 kV	4.95	159	127.2	629.64
543	Lea County REC-Plains Interchange 115 kV	Lyntegar REC-Plains 115 kV	4.04	159	127.2	513.89
544	Lea National Sub 115 kV	Summit Sub 115kV	2.50	159	127.2	318.00
545	Lea Road Sub 115 kV	Ward Sub 115 kV	8.00	120	96.0	768.00
546	Lea Road Sub 115 kV	Oil Center Sub 115 kV	3.11	120	96.0	298.56
547	Lehman Sub Tap 115 kV	Lehman Sub 115 kV	2.06	93	74.4	153.26
548	Lehman Sub Tap 115 kV	Lyntegar REC-Plains 115 kV	23.33	159	127.2	2967.58

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Line No.	LINE DESCRIPTION FROM	TO	LENGTH (miles)	THERMAL RATING (MVA)	80% THERMAL RATING (MVA)	MW - MILES
549	Lipscomb Co Sub 115 kV	Wade Sub Tap 115 kV	7.05	159	127.1	896.20
550	Livingston Ridge Sub 115 kV	Sage Brush 115 kV bus	27.48	275	220.0	6045.60
551	Livingston Ridge Sub 115 kV	WIPP Sub 115 kV	2.78	159	127.2	353.62
552	Livingston Ridge Sub 115 kV	XTO DI9 Sub Tap 115 kV	5.48	276	220.8	1209.98
553	Llano Estacado Wind POI 115 kV	Midstream Energy Tap 115 kV	9.31	129	103.2	960.79
554	Lopez Switch Station 115 kV	Campbell Street Sub 115 kV	0.12	80	63.8	7.65
555	Lopez Switch Station 115 kV	Farmers Electric REC-Tucumcari 115 kV	4.45	158	126.4	562.48
556	Lost Draw Sub 115 kV	Lehman Sub Tap 115 kV	1.12	159	127.2	142.46
557	Lost Draw Sub 115 kV	Cochran Interchange 115 kV	11.48	159	127.2	1460.26
558	Lubbock Power & Light-Doud Substation Tap 115 kV	Lubbock Power & Light Doud Sub Tap 115 kV	1.71	94	74.9	128.04
559	Lubbock Power & Light-Doud Substation Tap 115 kV	South Plains REC-Wolfforth Tap 115 kV	1.38	212	169.6	234.05
560	Lubbock South Interchange 115 kV	Lubbock East Interchange 115 kV	6.82	120	96.0	654.72
561	Lubbock South Interchange 115 kV	South Plains REC-Woodrow Interchange 69 kV	5.62	120	96.0	539.52
562	Lynn County Interchange 115 kV	Grassland Interchange 115 kV	7.11	159	127.2	904.39
563	Lyntegar REC-Clauene 115 kV	Terry County Interchange 115 kV	10.95	159	127.2	1392.84
564	Lyntegar REC-Levelland 115 kV	Lyntegar REC-Clauene 115 kV	6.41	159	127.2	815.35
565	Lyntegar REC-Pleasant Hill 115 kV	Seagraves Interchange 115 kV	4.20	159	127.2	534.24
566	Maddox Station 115 kV	Pearl Sub 115 kV	15.33	120	96.0	1471.68
567	Maddox Station 115 kV	Sanger Switching Station 115 kV	6.15	239	191.2	1175.88
568	Maddox Station 115 kV	Monument Sub 115 kV	3.36	169	135.2	454.27
569	Maljamar Subs 1&2 115 kV	Zia Sub 115 kV	12.18	143	114.4	1393.39
570	Manhattan Sub 115 kV	Randall County Interchange 115 kV	4.10	159	127.2	521.52
571	Martin Sub 115 kV	Pantex North Sub 115 kV	5.14	159	127.2	653.81
572	McClellan Sub 115 kV	McLean Rural Sub 115 kV	21.27	93	74.4	1582.49
573	McClellan Sub 115 kV	Kirby Switching Station 115 kV	0.69	96	76.8	52.99
574	Mid America #1 Sub 115 kV	Johnson Draw 115 kV	0.15	93	74.6	11.18
575	Midstream Energy Tap 115 kV	Nichols Station 115 kV	27.92	120	96.0	2680.32
576	Millen Sub 115 kV	Millen Sub Tap East 115 kV	0.00	143	114.4	0.00
577	Millen Sub Tap East 115 kV	Northeast Hobbs Sub 115 kV	2.00	120	95.6	191.20
578	Millen Sub Tap West 115 kV	Millen Sub 115 kV	0.00	120	95.6	0.00
579	Millen Sub Tap West 115 kV	Millen Sub Tap East 115 kV	0.00	120	95.6	0.00
580	Monument Sub 115 kV	West Hobbs Switching Station 115 kV	5.75	143	114.4	657.80
581	Monument Sub 115 kV	Monument Tap 115 kV	0.10	143	114.4	11.44
582	Monument Tap 115 kV	Byrd Sub Tap 115 kV	3.84	143	114.4	439.30
583	Moore County Interchange West Bus 115 kV	Rita Blanca REC-Stokes & Sheldon 115kV	3.97	80	64.0	254.08
584	Moore County Interchange West Bus 115 kV	Rita Blanca REC-Sneed 115 kV	16.35	120	96.0	1569.60
585	Murphy Sub 115 kV	Quincy Switching Station 115kV	2.24	160	128.0	286.72
586	Mustang Interchange North Bus 115 kV	Seagraves Interchange 115 kV	13.13	159	127.2	1670.14
587	National Enrichment Plant Sub 115 kV	Targa Subs 115 kV	4.26	159	127.2	541.87
588	Navajo No.2 Sub Tap 115 kV	Navajo No.2 Sub 115 kV	0.14	115	91.9	12.87
589	Navajo No.2 Sub Tap 115 kV	Navajo No.3 Sub 115 kV	0.07	138	110.4	7.73
590	Navajo No.5 Sub Tap 115 kV	Navajo No.4 Sub 115 kV	0.03	159	127.1	3.81
591	Navajo No.5 Sub Tap 115 kV	Navajo No.5 Sub 115 kV	0.24	159	127.1	30.51
592	Nichols Station 115 kV	Whitaker Sub 115 kV	2.80	233	186.4	521.92
593	Nichols Station 115 kV	Yarnell Sub Tap 115 kV	9.72	178	142.4	1384.13
594	Norris Street Tap 115 kV	Norris Street Sub 115 kV	0.60	93	74.6	44.74
595	Norris Street Tap 115 kV	Curry County Interchange 115 kV	0.03	158	126.4	3.79
596	Norris Street Tap 115 kV	Farmers Electric REC-Cheese Plant 115 kV Tap	7.62	128	102.4	780.29
597	North Canal Sub Tap 115 kV	Pecos Interchange 115 kV	2.54	159	127.1	322.88
598	North Clovis Sub Tap 115 kV	North Clovis Sub 115 kV	1.02	93	74.6	76.05
599	North Clovis Sub Tap 115 kV	Farmers Electric REC-Clovis Interchange 115 kV	1.95	158	126.4	246.48
600	NORTH LOVING Sub 115 kV	SOUTH LOVING 115 KV	3.43	276	220.8	757.34
601	NORTH LOVING Sub 115 kV	BLACK RIVER SUB 115kV	2.13	276	220.8	470.30
602	NORTH LOVING Sub 115 kV	Hopi Sub 115 kV	15.00	225	180.0	2700.00
603	North Plainview Sub 115 kV	Kiser Sub 115 kV	1.62	159	127.2	206.06
604	Northeast Hereford Interchange 115 kV	Hereford Interchange 115 kV	4.36	159	127.2	554.59
605	Northeast Hereford Interchange 115 kV	Deaf Smith County Interchange West Bus 115 kV	2.49	159	127.2	316.73
606	Northwest Interchange 115 kV	Bush Sub 115 kV	4.32	40	31.8	137.55
607	Northwest Interchange 115 kV	Sunset Sub115 kV	3.27	159	127.2	415.94
608	Norton Switching Station 115 kV	Farmers Electric REC-Tucumcari 115 kV	13.19	136	108.8	1435.07
609	Norton Switching Station 115 kV	Pleasant Hill 115 kV	54.54	128	102.4	5584.90
610	Oasis Interchange 115 kV	Portales Interchange 115 kV	7.40	158	126.4	935.36
611	Ochilltree Interchange 115 kV	Perryton Interchange 115 kV	1.08	97	77.6	83.81
612	Ochilltree Interchange 115 kV	Perryton Interchange 115 kV	1.48	176	140.8	208.38
613	Ocotillo Sub 115 kV	Pecos Interchange 115 kV	5.82	93	74.6	433.94
614	ODC Tap 115 kV	ODC Sub 115 kV	2.04	159	127.1	259.32
615	ODC Tap 115 kV	Shell CO2 Gas Sub 115 kV	2.72	159	127.2	345.98
616	Oil Center Sub 115 kV	Cooper Ranch Sub 115 kV	3.54	143	114.4	404.98
617	Osage Switching Station 115 kV	Arrowhead Sub 115 kV	3.00	120	96.0	288.00
618	Outpost Sub 115 kV	Bushland Interchange 115 kV	1.93	159	127.2	245.50
619	Outpost Sub 115 kV	Hillside Substation 115kV	6.60	248	198.4	1309.44
620	Owens Corning Sub 115 kV	Amarillo South Interchange 115 kV	1.15	215	172.0	197.80
621	Owens Corning Sub 115 kV	Estacado Tap 115 kV	5.51	159	127.2	700.87
622	OXY North Sub 115 kV	OXY Permian Sub 115	0.18	275	220.0	39.60
623	Oxy South Hobbs 115 kV	Switch #4J44 115 kV	1.90	143	114.4	217.36
624	Oxy West Seminole Tap 115 kV	Johnson Draw 115 kV	13.19	155	124.0	1635.56
625	Pacific Sub 115 kV	Sundown Interchange 115 kV	2.05	159	127.2	260.76
626	Palo Duro Sub 115 kV	Happy Interchange 115 kV	23.81	239	191.2	4552.47
627	Pantex North Sub 115 kV	Pantex South Sub 115 kV	3.35	159	127.2	426.12

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Line No.	LINE DESCRIPTION FROM	TO	LENGTH (miles)	THERMAL RATING (MVA)	80% THERMAL RATING (MVA)	MW - MILES
628	Parmer County Sub 115 kV	Deaf Smith REC-#24 115 kV	1.16	96	76.8	89.09
629	Parmer County Sub 115 kV	Deaf Smith REC-#20 115 kV	7.60	93	74.4	565.44
630	PCA Interchange 115 kV	Potash Junction Interchange 115 kV	4.72	159	127.2	600.38
631	PCA Interchange 115 kV	Carlsbad Interchange 115 kV	19.07	120	96.0	1830.72
632	PCA Interchange 115 kV	XTO Big Eddy Tap 115kV	5.63	239	191.2	1076.46
633	Pecos Interchange 115 kV	Hopi Sub 115 kV	11.03	250	200.0	2206.00
634	Perimeter Sub 115 kV	Oasis Interchange 115 kV	7.63	158	126.4	964.43
635	Phantom Substation 115 kV BUS	BOPCO Poker Lake Substation 115 kV	0.20	384	307.2	61.44
636	Phantom Substation 115 kV BUS	Wood Draw Substation 115 kV	7.71	159	127.5	983.18
637	Pierce Street Tap 115 kV	Pierce Street Sub115 kV	2.02	160	127.9	258.40
638	Pierce Street Tap 115 kV	Osage Switching Station 115 kV	3.95	120	96.0	379.20
639	Plant X Station 115 kV	Lamb County Interchange 115 kV	23.14	120	96.0	2221.44
640	Pleasant Hill 115 kV	East Clovis Sub 115 kV	4.41	123	98.4	433.94
641	Pleasant Hill 115 kV	North Clovis Sub Tap 115 kV	5.11	158	126.4	645.90
642	Pleasant Hill 115 kV	Farmers Electric REC-Holland 115 kV	3.51	158	126.4	443.66
643	Portales Interchange 115 kV	Kilgore Sub 115 kV (Zodiac 115kV)	3.20	239	191.2	611.84
644	Portales Interchange 115 kV	Market Street Sub 115 kV	7.00	274	219.2	1534.40
645	Potash Junction Interchange 115 kV	Kiowa Sub 115 kV	0.30	384	307.2	92.16
646	Potash Junction Interchange 115 kV	Intrepid West Tap 115 kV	1.38	276	220.8	304.70
647	Potash Junction Interchange 115 kV	Carlsbad Interchange 115 kV	16.33	96	76.8	1254.14
648	Prentice Sub 115 kV	Yoakum County Interchange 115 kV	21.08	159	127.2	2681.38
649	Price Sub 115 kV	Price Sub Tap 115 kV	1.84	159	127.2	234.05
650	Price Sub Tap 115 kV	Capitan Sub 115 kV	8.96	275	220.0	1971.20
651	Pringle Interchange 115 kV	Riverview Interchange 115 kV	20.25	160	128.0	2592.00
652	Pringle Interchange 115 kV	Quench Ryton Plant Tap 115 kV	27.36	159	127.2	3480.19
653	Puckett Sub 115 kV	Coulter Interchange 115 kV	2.35	159	127.2	298.92
654	Pullman Sub 115 kV	Southeast Sub 115 kV	4.20	160	127.9	537.26
655	Quahada Sub 115 kV	XTO Big Eddy Tap 115kV	6.89	239	191.2	1317.37
656	Quahada Sub 115 kV	Lea National Sub 115 kV	3.68	143	114.4	420.99
657	Quahada Sub 115 kV	DCP Zia Sub Tap 115 kV	1.52	143	114.4	173.89
658	Quincy Switching Station 115kV	South Plains REC-Frankford Sub 115 kV	1.74	160	128.0	222.72
659	Randall County Interchange 115 kV	Canyon East Tap 115 kV	18.23	96	76.8	1400.06
660	Randall County Interchange 115 kV	Palo Duro Sub 115 kV	13.63	239	191.2	2606.06
661	Red Bluff Switching Station 115 kV	Road Runner Sub 115 kV	11.54	159	127.2	1467.89
662	Red Bluff Switching Station 115 kV	WolfCamp Sub Tap 115kV	7.81	384	307.2	2399.23
663	Rita Blanca Elks Sub 115kV	Rita Blanca Spurlock Substation 115 kV	15.75	159	127.2	2003.40
664	Rita Blanca REC-Exum Sub 115 kV	Etter Rural Sub 115 kV	11.55	120	96.0	1108.80
665	Rita Blanca REC-Hogue 115 kV	Rita Blanca REC-Kemp 115 kV	7.06	93	74.2	524.13
666	Rita Blanca REC-Hogue 115 kV	Dalhart Interchange 115 kV	11.44	82	65.6	750.46
667	Rita Blanca REC-Kemp 115 kV	Moore County Interchange East Bus 115 kV	25.01	93	74.2	1856.74
668	Rita Blanca REC-Stokes & Sheldon 115kV	Dumas 19th Street Sub 34.5 kV	9.27	93	74.4	689.69
669	Rita Blanca Spurlock Substation 115 kV	Moore County Interchange East Bus 115 kV	13.02	80	64.0	833.28
670	Riverview Interchange 115 kV	CRMWA #1 Tap 115 kV	8.28	120	96.0	794.88
671	Riverview Interchange 115 kV	West Borger Sub Tap 115 kV	3.24	159	127.2	412.13
672	Riverview Interchange 115 kV	Hutchinson County Interchange S. 115 kV	10.99	160	128.0	1406.72
673	Road Runner Sub 115 kV	Battle Axe Substation 115 kV BUS	19.73	248	198.4	3914.43
674	Road Runner Sub 115 kV	AGAVE Red Hills 115 kV	0.70	159	127.2	89.04
675	Road Runner Sub 115 kV	AGAVE Red Hills #2 115 kV	1.12	158	126.4	141.57
676	Road Runner Sub 115 kV	Custer Mountain 115 kV	11.95	275	220.0	2629.00
677	Road Runner SVC 115kV Bus	Road Runner Sub 115 kV	0.00	200	160.0	0.00
678	Rolling Hills Interchange 115 kV	Cherry Sub 115 kV	0.20	159	127.1	25.42
679	Rolling Hills Interchange 115 kV	Nichols Station 115 kV	6.24	159	127.2	793.73
680	Rolling Hills Interchange 115 kV	Northwest Interchange 115 kV	8.34	159	127.2	1060.85
681	Rolling Hills Interchange 115 kV	Hastings Sub 115 kV	6.09	263	210.4	1281.34
682	Roosevelt County Interchange 115 kV	Portales Interchange 115 kV	11.62	158	126.4	1468.77
683	Roswell City Sub 115 kV	SWITCH 4J795 West Tie 115kV	3.33	138	110.4	367.63
684	Roswell Interchange 115 kV	Tweedy Sub 115 kV	2.49	215	172.0	428.28
685	Roz Substation 115 kV	Amerada Hess Co2 Sub 115 kV	0.75	80	64.0	48.00
686	Roz Substation 115 kV	Seminole Interchange 115 kV	3.43	159	127.2	436.30
687	Russell Oil Field Sub 115 kV	Higg Switch Station 115 kV	1.00	159	127.1	127.12
688	Sage Brush 115 kV bus	Cardinal Sub 115 kV	20.32	275	220.0	4470.40
689	Samson Sub 115 kV	Roswell Interchange 115 kV	3.22	159	127.2	409.58
690	San Andres Sub Tap 115 kV	San Andres Sub 115 kV	2.00	159	127.1	254.24
691	San Andres Sub Tap 115 kV	Denver City Interchange S. 115 kV	1.57	159	127.2	199.70
692	San Andres Sub Tap 115 kV	Seminole Interchange 115 kV	17.56	159	127.2	2233.63
693	Sand Dunes Sub 115 kV	Red Bluff Switching Station 115 kV	7.69	159	127.2	978.17
694	Sanger Switching Station 115 kV	Switch #4J44 115 kV	2.00	143	114.4	228.80
695	Sanger Switching Station 115 kV	OXY Permian Sub 115	0.50	239	191.2	95.60
696	Seagraves Interchange 115 kV	Sulphur Springs Interchange 115 kV	12.53	139	111.2	1393.34
697	Seminole Interchange 115 kV	Gaines County Interchange 115 kV	10.46	159	127.2	1330.51
698	Seminole Interchange 115 kV	Doss Interchange 115 kV	7.75	159	127.2	985.80
699	Sendero Sub 115 kV	BLACK RIVER SUB 115kV	0.25	276	220.8	55.20
700	Sendero Sub 115 kV	China Draw Substation 115 kV	15.88	276	220.8	3506.30
701	Seven Rivers Interchange 115 kV	Central Valley REC-Lakewood 115 kV	7.98	159	127.2	1015.06
702	Shamrock Substation (AEP) 115kV	McLean Rural Sub 115 kV	4.00	65	51.6	206.18
703	Shell C2 Sub 115 kV	Shell C3 Tap 115 kV	2.18	258	206.4	449.95
704	Shell C2 Sub 115 kV	Denver City Interchange S. 115 kV	3.36	216	172.8	580.61
705	Shell C3 Tap 115 kV	Shell C3 Sub 115 kV	0.90	93	74.6	67.10
706	Shell CO2 Gas Sub 115 kV	El Paso Sub 115 kV	0.66	159	127.2	83.95

Southwestern Public Service Company

Wheeling Information

Line No.	LINE DESCRIPTION FROM	TO	LENGTH (miles)	THERMAL RATING (MVA)	80% THERMAL RATING (MVA)	MW - MILES
707	Shell CO2 Gas Sub 115 kV	Mustang Interchange North Bus 115 kV	6.00	275	220.0	1320.00
708	Sherman County Sub 115 kV	Lasley Switching Station 115 kV	11.25	159	127.2	1431.00
709	Sherman County Sub 115 kV	Dallam County Interchange 115 kV	37.11	158	126.4	4690.70
710	Soncy Sub Tap 115 kV	Soncy Sub 115 kV	1.05	159	127.2	133.56
711	Soncy Sub Tap 115 kV	Puckett Sub 115 kV	0.71	159	127.2	90.31
712	South Georgia Interchange 115 kV	Western Sub 115kV	1.11	159	127.1	141.10
713	South Georgia Interchange 115 kV	Randall County Interchange 115 kV	5.89	249	199.2	1173.29
714	South Georgia Interchange 115 kV	Crouse Hinds Sub Tap 115 kV	1.93	159	127.1	245.34
715	South Hobbs Sub 115 kV	Oxy South Hobbs 115 kV	1.21	120	96.0	116.16
716	South Jal Sub 115 kV	Dollarhide Sub 115 kV	3.70	96	76.8	284.16
717	South Plains REC-Erskine 115 kV	Indiana Sub 115 kV	3.90	160	128.0	499.20
718	South Plains REC-Erskine 115 kV	Carlisle Interchange 115 kV	2.16	94	75.2	162.43
719	South Plains REC-Frankford Sub 115 kV	South Plains REC-Quaker 115 kV	2.01	159	127.2	255.67
720	South Plains REC-Upland 115 kV	South Plains REC-Wolfforth Tap 115 kV	1.45	76	61.1	88.62
721	South Plains REC-Woodrow Interchange 69 kV	Lynn County Interchange 115 kV	18.43	120	96.0	1769.28
722	South Portales Sub 115 kV	Market Street Sub 115 kV	1.90	239	191.2	363.28
723	Southeast Sub 115 kV	Randall County Interchange 115 kV	3.38	160	127.9	432.37
724	Spearman Interchange 115 kV	Hansford County Switch Station 115 kV	14.89	159	127.2	1894.01
725	Spearman Interchange 115 kV	Spearman Sub 115 kV	8.44	159	127.2	1073.57
726	Spearman Interchange 115 kV	Pringle Interchange 115 kV	17.76	159	127.2	2259.07
727	Spearman Interchange 115 kV	Pringle Interchange 115 kV	20.02	159	127.2	2546.54
728	Stanton Sub 115 kV	Indiana Sub 115 kV	1.49	120	96.0	143.04
729	Sundown Interchange 115 kV	Amoco Tap 115 kV	0.97	120	96.0	93.12
730	Sunset Sub115 kV	Soncy Sub Tap 115 kV	1.39	159	127.2	176.81
731	Switch #4J44 115 kV	West Hobbs Switching Station 115 kV	1.00	143	114.4	114.40
732	SWITCH 4J795 Eastside 115kV	SWITCH 4J795 West Tie 115kV	0.00	159	127.2	0.00
733	SWITCH 4J795 Eastside 115kV	Roswell Interchange 115 kV	0.21	276	220.8	46.37
734	SWITCH 4J795 West Tie 115kV	Roswell Interchange 115 kV	0.04	159	127.2	5.09
735	Taylor Switching Station 115 kV	Northeast Hobbs Sub 115 kV	3.49	120	96.0	335.04
736	Taylor Switching Station 115 kV	West Bender Sub 115 kV	6.40	143	114.4	732.16
737	Taylor Switching Station 115 kV	East Sanger Sub 115 kV	1.50	120	96.0	144.00
738	Teague Sub 115 kV	South Jal Sub 115 kV	10.28	120	96.0	986.88
739	Teague Sub 115 kV	Cardinal Sub 115 kV	6.81	143	114.4	779.06
740	Terry County Interchange 115 kV	Prentice Sub 115 kV	16.98	159	127.2	2159.86
741	Terry County Interchange 115 kV	Denver City Interchange N. 115 kV	35.61	96	76.8	2734.85
742	Terry County Interchange 115 kV	Sulphur Springs Interchange 115 kV	23.10	120	96.0	2217.60
743	Texas County Interchange 115 kV	Hitchland Interchange 115 kV	13.04	139	111.2	1450.05
744	Texas County Interchange 115 kV	Hitchland Interchange 115 kV	23.95	139	111.2	2663.24
745	Texas County Interchange 115 kV	Tri County REC-McMurry Sub 115 kV	4.13	120	96.0	396.48
746	Texas County Interchange Phase Angle Regulator 115 l	East Liberial Substation (SUNC) 115kV	42.50	80	64.0	2720.30
747	Texas Farms Sub 115 kV	Ochilltree Interchange 115 kV	8.63	178	142.4	1228.91
748	Texas Farms Sub 115 kV	Spearman Sub 115 kV	18.05	178	142.4	2570.32
749	Tri County REC-McMurry Sub 115 kV	Tri Co REC- Aggie Sub 115kV	31.00	159	127.2	3943.20
750	Tuco Interchange 115 kV	Stanton Sub 115 kV	19.24	120	96.0	1847.04
751	Tuco Interchange 115 kV	Lubbock East Interchange 115 kV	22.78	159	127.2	2897.62
752	Tulia Tap 115 kV	Kress Interchange 115 kV	10.38	249	199.2	2067.70
753	Tweedy Sub 115 kV	Eddy County Interchange North 115 kV	44.83	180	144.0	6455.52
754	Urton Sub 115 kV	Roswell City Sub 115 kV	3.17	138	110.4	349.97
755	Valero Sub 115 kV	Moore County Interchange West Bus 115 kV	2.01	159	127.1	255.51
756	Valero Sub 115 kV	Moore County Interchange East Bus 115 kV	1.41	159	127.1	179.24
757	Wade Sub Tap 115 kV	Wade Sub 115 kV	1.50	159	127.1	190.68
758	Wade Sub Tap 115 kV	Ochilltree Interchange 115 kV	10.98	159	127.1	1395.78
759	Ward Sub 115 kV	Whitten Sub 115 kV	10.30	143	114.4	1178.32
760	West Bender Sub 115 kV	North Hobbs Sub 115 kV	2.70	73	58.2	157.03
761	West Bender Sub 115 kV	OXY North Sub 115 kV	0.32	275	220.0	70.40
762	West Borger Sub Tap 115 kV	West Borger Sub 115 kV	1.80	50	40.0	72.00
763	West Clovis Sub 115 kV	Cannon A.F.B. Sub Tap 115 kV	4.60	158	126.4	581.44
764	West Clovis Sub 115 kV	Farmers Electric REC-Clovis Interchange 115 kV	3.20	159	127.2	407.04
765	West Hobbs Switching Station 115 kV	Drinkard Tap 115 kV	12.49	159	127.2	1588.73
766	Wheeler County Interchange 115 kV	Howard Sub 115 kV	8.38	161	128.8	1079.34
767	Whitaker Sub 115 kV	East Plant Interchange 115 kV	4.60	215	172.0	791.20
768	Whitten Sub 115 kV	South Jal Sub 115 kV	7.90	120	96.0	758.40
769	WIPP Sub 115 kV	Sand Dunes Sub 115 kV	5.63	159	127.2	716.14
770	Wolfforth Interchange 115 kV	Terry County Interchange 115 kV	20.54	164	131.2	2694.85
771	XIT Interchange 115 kV	Dallam County Interchange 115 kV	1.25	236	188.8	236.00
772	XTO Cornell Sub 115 kV	Shell C3 Tap 115 kV	2.43	275	220.0	534.60
773	XTO DI9 Sub Tap 115 kV	XTO DI9 Sub 115 kV	1.00	159	127.4	127.44
774	Yarnell Sub Tap 115 kV	Conway Sub 115 kV	13.03	179	143.2	1865.90
775	Yoakum County Interchange 115 kV	ARCO-Willard Tap 115 kV	8.73	159	127.2	1110.46
776	Yoakum County Interchange 115 kV	Lyntegar REC-Pleasant Hill 115 kV	19.24	120	96.0	1847.04
777	Yuma Interchange 115 kV	South Plains REC-Wolfforth Tap 115 kV	0.81	159	127.2	103.03
778	Yuma Interchange 115 kV	Wolfforth Interchange 115 kV	5.09	199	159.2	810.33
779	Zia Sub 115 kV	DCP Zia Sub Tap 115 kV	0.80	143	114.4	91.52
780		**115-kV TOTAL**	**3307.76**			**426,789.90**

Southwestern Public Service Company

Wheeling Information

Line No.	LINE DESCRIPTION FROM	TO	LENGTH (miles)	THERMAL RATING (MVA)	80% THERMAL RATING (MVA)	MW - MILES
	230-kV TRANSMISSION LINES					
781	Amarillo South Interchange 230 kV	Swisher County Interchange 230 kV	57.9	497	397.6	23,021.04
782	Amoco Switching Station 230 kV	Yoakum County Interchange 230 kV	37.03	414	331.2	12,264.34
783	Amoco Wasson Switching Station 230 kV	XTO-Mahoney 230 kV	4.62	431	344.8	1,592.98
784	Amoco Wasson Switching Station 230 kV	Mustang Interchange 230 kV	3.55	431	344.8	1,224.04
785	Bennett Ranch Unit Sub 230 kV	Oxy Bennett Ranch Unit Sub 230 kV	0.11	497	397.6	43.74
786	Bennett Ranch Unit Sub 230 kV	XTO-Mahoney 230 kV	1.76	399	319.2	561.79
787	Bushland Interchange 230 kV	Deaf Smith County Interchange 230 kV	33.48	389	311.2	10,418.98
788	Carlisle Interchange 230 kV	Wolfforth Interchange 230 kV	13.04	499	399.2	5,205.57
789	Channing Sub 230 kV	Potter County Interchange 230 kV	41.65	496	396.8	16,526.72
790	Chaves County Interchange 230 kV	Eddy County Interchange 230 kV	52.45	319	255.2	13,385.24
791	Cunningham Station North 230 kV	Potash Junction Interchange 230 kV	38.48	478	382.4	14,714.75
792	Cunningham Station South 230 kV	Hobbs Interchange 230 kV	4.02	478	382.4	1,537.25
793	Deaf Smith County Interchange 230 kV	Plant X Station 230 kV	45.94	320	256	11,760.64
794	Eddy County Interchange 230 kV	Cunningham Station North 230 kV	58.81	319	255.2	15,008.31
795	Eddy County Interchange 230 kV	Seven Rivers Interchange 230 kV	24.1	478	382.4	9,215.84
796	Grapevine Interchange 230 kV	Wheeler County Interchange 230 kV	37.18	319	255.2	9,488.34
797	Grapevine Interchange 230 kV	Nichols Station 230 kV	53.43	319	255.2	13,635.34
798	Grassland Interchange 230 kV	Cirrus Wind Farm POI 230kV	10.15	478.1	382.48	3,882.17
799	Harrington Station Mid Bus 230 kV	Nichols Station 230 kV	1.13	650	520	587.60
800	Harrington Station Mid Bus 230 kV	Randall County Interchange 230 kV	11.58	478	382.4	4,428.19
801	Harrington Station West Bus 230 kV	Rolling Hills Interchange 230 kV	5.1	478	382.4	1,950.24
802	Harrington Station West Bus 230 kV	Nichols Station 230 kV	1.07	650	520	556.40
803	Harrington Station West Bus 230 kV	East Plant Interchange 230 kV	7.07	319	255.2	1,804.26
804	Hitchland Interchange 230 kV	Ochilltree Interchange 230 kV	38.23	500	400	15,292.00
805	Hitchland Interchange 230 kV	Moore County Interchange 230 kV	62.69	498	398.4	24,975.70
806	Hobbs Interchange 230 kV	Andrews 230 kV Bus	30.77	496	396.8	12,209.54
807	Hutchinson County Interchange 230 kV	Nichols Station 230 kV	30.36	319	255.2	7,747.87
808	Ink Basin Sub 230kV Bus	Hobbs Interchange 230 kV	30.74	496	396.8	12,197.63
809	Jones Station 230 kV	Grassland Interchange 230 kV	26.72	319	255.2	6,818.94
810	Lubbock East Interchange 230 kV	Jones Station 230 kV	6.21	433	346.4	2,151.14
811	Lubbock South Interchange 230 kV	Jones Station 230 kV	5.43	478	382.4	2,076.43
812	Lubbock South Interchange 230 kV	Jones Station 230 kV	5.43	478	382.4	2,076.43
813	Lubbock South Interchange 230 kV	Wolfforth Interchange 230 kV	14.62	365	292	4,269.04
814	Moore County Interchange 230 kV	Potter County Interchange 230 kV	47.48	319	255.2	12,116.90
815	Mustang Interchange 230 kV	Seminole Interchange 230 kV	18.07	498	398.4	7,199.09
816	Needmore Sub 230kV	Yoakum County Interchange 230 kV	74.39	497	397.6	29,577.46
817	Newhart Interchange 230 kV	Plant X Station 230 kV	39.59	321	256.8	10,166.71
818	Nichols Station 230 kV	Amarillo South Interchange 230 kV	19.99	319	255.2	5,101.45
819	Oasis Interchange 230 kV	San Juan Mesa Tap 230 kV	46.2	319	255.2	11,790.24
820	Oasis Interchange 230 kV	Roosevelt County Interchange 230 kV	9.6	319	255.2	2,449.92
821	Plant X Station 230 kV	Tolk Station East 230 kV	10	637	509.6	5,096.00
822	Plant X Station 230 kV	Tolk Station West 230 kV	10.1	637	509.6	5,146.96
823	Plant X Station 230 kV	Sundown Interchange 230 kV	48.2	497	397.6	19,164.32
824	Pleasant Hill 230 kV	Oasis Interchange 230 kV	27.96	493	394.4	11,027.42
825	Pleasant Hill 230 kV	Roosevelt County Interchange 230 kV	19.52	493	394.4	7,698.69
826	Potash Junction Interchange 230 kV	Pecos Interchange 230 kV	14.64	498	398.4	5,832.58
827	Potter County Interchange 230 kV	Harrington Station East Bus 230 kV	11.2	478	382.4	4,282.88
828	Potter County Interchange 230 kV	Rolling Hills Interchange 230 kV	6.23	498	398.4	2,482.03
829	Potter County Interchange 230 kV	Bushland Interchange 230 kV	18.95	459	367.2	6,958.44
830	Potter County Interchange 230 kV	Newhart Interchange 230 kV	67.25	376	300.8	20,228.80
831	Pringle Interchange 230 kV	Harrington Station East Bus 230 kV	59.17	326	260.8	15,431.54
832	Randall County Interchange 230 kV	Amarillo South Interchange 230 kV	8.33	497	397.6	3,312.01
833	Roosevelt County Interchange 230 kV	Tolk Station East 230 kV	39.39	478	382.4	15,062.74
834	Roosevelt County Interchange 230 kV	Tolk Station West 230 kV	39.87	478	382.4	15,246.29
835	San Juan Mesa Tap 230 kV	Chaves County Interchange 230 kV	51.6	478	382.4	19,731.84
836	Seven Rivers Interchange 230 kV	Pecos Interchange 230 kV	20.61	499	399.2	8,227.51
837	Sundown Interchange 230 kV	Amoco Switching Station 230 kV	5.16	498	398.4	2,055.74
838	Sundown Interchange 230 kV	Wolfforth Interchange 230 kV	24.62	426	340.8	8,390.50
839	Swisher County Interchange 230 kV	Newhart Interchange 230 kV	20.83	497	397.6	8,282.01
840	Swisher County Interchange 230 kV	Tuco Interchange 230 kV	39.62	498	398.4	15,784.61
841	Tolk Station East 230 kV	Tuco Interchange 230 kV	54.58	319	255.2	13,928.82
842	Tolk Station West 230 kV	Needmore Sub 230kV	13.65	430	344	4,695.60
843	Tolk Station West 230 kV	Lamb County Interchange 230 kV	35.1	319	255.2	8,957.52
844	Tuco Interchange 230 kV	Carlisle Interchange 230 kV	26.89	499	399.2	10,734.49
845	Tuco Interchange 230 kV	Jones Station 230 kV	29.67	499	399.2	11,844.26
846	Wheeler County Interchange 230 kV	Demarcation Bus Location 230kV	13.92	353	282.4	3,931.01
847	XIT Interchange 230 kV	Channing Sub 230 kV	32.28	495	396	12,782.88
848	Yoakum County Interchange 230 kV	Bennett Ranch Unit Sub 230 kV	5.35	470	376	2,011.60
849	Yoakum County Interchange 230 kV	Ink Basin Sub 230kV Bus	17.29	497	397.6	6,874.50
850	Yoakum County Interchange 230 kV	Mustang Interchange 230 kV	15.65	447	357.6	5,596.44
851		**230-kV TOTAL**	**1837.80**			**621,830.29**

Southwestern Public Service Company

Wheeling Information

Line No.	LINE DESCRIPTION FROM	TO	LENGTH (miles)	THERMAL RATING (MVA)	80% THERMAL RATING (MVA)	MW - MILES
	345-kV TRANSMISSION LINES					
852	Beaver (OGE) 345kV	Hitchland Interchange 345 kV	29.25	1793	1434.2	41949.18
853	Beaver (OGE) 345kV	Hitchland Interchange 345 kV	29.25	1793	1434.2	41949.18
854	Border Substation (OGE) 345kV	Tuco Interchange 345 kV	201.10	1793	1434.2	288409.58
855	Carpenter Sub 345 kV	Finney Switching Station 345 kV	67.96	950	760.0	51649.60
856	Crossroads Switching Station 345kV	Eddy County Interchange 345 kV	105.72	647	517.6	54720.67
857	Finney Switching Station 345 kV	Holcomb Interchange (SUN) 345kV	0.75	956	764.9	573.66
858	Finney Switching Station 345 kV	Lamar HVDC (PSCO) 345 kV	78.86	380	304.0	23971.92
859	Hitchland Interchange 345 kV	Carpenter Sub 345 kV	50.02	1098	878.4	43937.57
860	Hitchland Interchange 345 kV	Potter County Interchange 345 kV	102.60	956	764.8	78468.48
861	Hobbs Interchange 345 kV	Kiowa Sub 345 kV	47.75	1793	1434.4	68492.60
862	Kiowa Sub 345 kV	Road Runner Sub 345 kV	40.02	1793	1434.4	57404.69
863	Kiowa Sub 345 kV	North Loving Sub 345 kV	21.88	1792	1433.6	31367.17
864	North Loving Sub 345 kV	China Draw Substation 345 kV	18.08	1793	1434.4	25933.95
865	OKU Station (PSO) 345kV	Tuco Interchange 345 kV	160.79	956	764.9	122986.58
866	Tolk Station 345 kV	Crossroads Switching Station 345kV	52.00	782	625.6	32531.20
867	Tuco Interchange 345 kV	Yoakum County Interchange 345 kV	113.00	1792	1433.6	161996.80
868	Yoakum County Interchange 345 kV	Hobbs Interchange 345 kV	48.00	1792	1433.6	68812.80
869		**345-kV TOTAL**	**1167.03**			**1,195,155.63**

Acronyms: AEP - American Electric Power
ACCO - Anderson, Clayton and Company
A.F.B. - Air Force Base
ASARCO - American Smelting and Refining
CRMWA - Canadian River Municipal Water
DCP - Duke-Conoco Phillips
HVDC - High Voltage Direct Current
I.M.C. - International Minerals and Chemical Corp.
KCM - Owned by Lea County REC
OGE - Oklahoma Gas and Electric
OXY - Occidental Petroleum Corporation
OKU - Oklaunion
PCA - Potash Company of America
POI - Point of Interconnection
PSCO - Public Service Company of Colorado
PSO - Public Service Company of Oaklahoma
REC - Rural Electric Cooperative
Sub - Substation
SUNC - Sunflower Electric Power Corporation
WIPP - Waste Isolation Pilot Plant