

Southwestern Public Service Company

Peak Demand Information

**Total System for (a) Twelve Months of the Test Year, (c) Four Years Prior to the Test Year, and
(d) Five Years Beyond the Test Year by Month**

Line No.	Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	2018 - Actual												
2	Total System ⁽¹⁾	3,705	3,443	3,187	3,394	4,344	4,447	4,648	4,391	3,950	3,863	3,571	3,650
3	2019 - Actual												
4	Total System ⁽¹⁾	3,614	3,638	3,727	3,471	3,607	3,944	4,223	4,261	4,146	3,430	3,413	3,458
5	2020 - Actual												
6	Total System ⁽¹⁾	3,406	3,412	3,093	3,053	3,367	3,918	4,195	4,118	3,829	3,456	3,209	3,315
7	2021 - Actual												
8	Total System ⁽¹⁾	3,293	3,466	3,140	3,036	3,515	3,977						
9	2021/2022 - Base Period - Actual												
10	Total System - 2021							3,902	4,054	4,045	3,375	3,177	3,257
11	Total System - 2022	4,124	4,356	4,151	4,725	5,130	5,546						
12	New Mexico Retail - 2021							1,145	1,197	1,237	1,089	1,172	1,129
13	New Mexico Retail - 2022	1,200	1,027	1,304	1,135	1,249	1,314						
14	2022/2023 - Linkage Period - Forecast												
15	Total System - 2022 ⁽¹⁾							3,901	3,987	3,755	3,279	3,257	3,389
16	Total System - 2023 ⁽¹⁾	3,417	3,456	3,271	3,314	3,732	3,841						
17	New Mexico Retail - 2022							1,351	1,397	1,356	1,235	1,235	1,287
18	New Mexico Retail - 2023	1,229	1,232	1,252	1,230	1,402	1,484						
19	2023/2024 - Test Year - Forecast												
20	Total System - 2023							3,935	3,955	3,795	3,315	3,290	3,381

Southwestern Public Service Company

Peak Demand Information

**Total System for (a) Twelve Months of the Test Year, (c) Four Years Prior to the Test Year, and
(d) Five Years Beyond the Test Year by Month**

Line													
No.	Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
21	Total System - 2024	3,410	3,452	3,269	3,300	3,726	3,927						
22	New Mexico Retail - 2023							1,334	1,325	1,318	1,184	1,191	1,214
23	New Mexico Retail - 2024	1,181	1,261	1,219	1,218	1,351	1,396						
24	2024 - Forecast												
25	Total System ⁽¹⁾							4,023	4,036	3,917	3,436	3,411	3,478
26	2025 - Forecast												
27	Total System ⁽¹⁾	3,511	3,558	3,378	3,396	3,821	3,996	4,087	4,098	4,016	3,537	3,512	3,562
28	2026 - Forecast												
29	Total System ⁽¹⁾	3,604	3,662	3,492	3,509	3,943	3,970	4,059	4,080	4,042	3,568	3,550	3,575
30	2027 - Forecast												
31	Total System ⁽¹⁾	3,616	3,674	3,495	3,499	3,929	4,018	4,109	4,121	4,087	3,613	3,599	3,620
32	2028 - Forecast												
33	Total System ⁽¹⁾	3,663	3,717	3,537	3,541	3,973	4,048	4,143	4,151	4,127	3,651	3,642	3,660
34	2029 - Forecast												
35	Total System ⁽¹⁾	3,702	3,746	3,565	3,565	3,997	4,074	4,163	4,171	4,146	3,663	3,660	3,679

⁽¹⁾ No allocation study has been developed for this period to determine the New Mexico demand.

Note: Peak Demand data provided is based on Production Peaks.

Southwestern Public Service Company

Peak Demand Information

Part (b) ii (2 & 3)

NON-COINCIDENT CLASS PEAK DEMAND

FOR THE TEST YEAR ENDING: June 30, 2024

NON-COINCIDENT PEAK DEMAND AT THE METER

Line No.		Total Loss Level 6	Total Loss Level 5	Total Loss Level 4	Total Loss Level 3	Total Loss Level 2	Total New Mexico Retail NCP Demand
1	July - 23	349,816	196,369	323,214	0	0	869,399
2	August - 23	355,331	199,569	335,236	0	0	890,136
3	September - 23	295,587	189,781	379,033	0	0	864,402
4	October - 23	284,191	154,530	311,397	0	0	750,118
5	November - 23	265,168	141,172	340,630	0	0	746,970
6	December - 23	338,738	130,802	345,841	0	0	815,382
7	January - 24	340,086	158,828	328,574	0	0	827,488
8	February - 24	312,236	160,819	340,995	0	0	814,049
9	March - 24	303,551	176,954	367,478	0	0	847,984
10	April - 24	246,922	158,018	349,142	0	0	754,082
11	May - 24	292,857	187,400	336,367	0	0	816,624
12	June - 24	352,040	191,637	333,021	0	0	876,698
13	Max	355,331	199,569	379,033	0	0	890,136

NON-COINCIDENT PEAK DEMAND AT THE SOURCE

		Total Loss Level 6	Total Loss Level 5	Total Loss Level 4	Total Loss Level 3	Total Loss Level 2	Total New Mexico Retail NCP Demand
14	July - 23	401,247	224,307	359,028	0	0	984,581
15	August - 23	407,573	227,962	372,382	0	0	1,007,917
16	September - 23	339,045	216,782	421,032	0	0	976,859
17	October - 23	325,973	176,515	345,902	0	0	848,390
18	November - 23	304,154	161,257	378,374	0	0	843,784
19	December - 23	388,540	149,412	384,163	0	0	922,115
20	January - 24	390,086	181,425	364,982	0	0	936,493
21	February - 24	358,141	183,699	378,779	0	0	920,619
22	March - 24	348,180	202,130	408,197	0	0	958,507
23	April - 24	283,225	180,499	387,829	0	0	851,553
24	May - 24	335,913	214,062	373,639	0	0	923,613
25	June - 24	403,798	218,901	369,921	0	0	992,620
26	Max	407,573	227,962	421,032	0	0	1,007,917

Southwestern Public Service Company

Peak Demand Information

Part (b) ii (2 & 3)

NON-COINCIDENT CLASS PEAK DEMAND

FOR THE TEST YEAR ENDING: June 30, 2024

NON-COINCIDENT PEAK DEMAND AT THE METER

Line No.		(RWH) Residential With Water Heating	(RL) Residential Service	(RH) Residential With Heating	Total Residential	(SGS) Small General Service	(SL) Street Lighting	(AL) Area Lighting	(SMS) Small Municipal and School Service	Total Loss Level 6 Sec Non-Demand
1	July - 23	-	195,637	107,141	302,778	38,515	2,015	4,466	2,041	349,816
2	August - 23	-	196,912	112,421	309,332	37,879	1,843	4,125	2,152	355,331
3	September - 23	-	164,803	87,511	252,314	36,375	1,717	3,516	1,665	295,587
4	October - 23	-	141,012	107,873	248,885	28,787	1,507	3,386	1,626	284,191
5	November - 23	-	125,556	109,971	235,527	23,977	1,444	2,943	1,277	265,168
6	December - 23	-	150,752	159,157	309,909	23,157	1,349	2,844	1,478	338,738
7	January - 24	-	149,107	151,401	300,508	33,124	1,378	3,282	1,793	340,086
8	February - 24	-	148,134	125,247	273,381	31,560	1,690	3,573	2,032	312,236
9	March - 24	-	136,105	126,133	262,238	34,143	1,620	3,603	1,947	303,551
10	April - 24	-	120,520	92,160	212,680	27,127	1,857	4,020	1,238	246,922
11	May - 24	-	155,824	94,091	249,915	34,480	1,979	4,343	2,139	292,857
12	June - 24	-	203,681	103,674	307,355	35,763	2,146	4,537	2,239	352,040
13	Max	-	203,681	159,157	309,909	38,515	2,146	4,537	2,239	355,331

NON-COINCIDENT PEAK DEMAND AT THE SOURCE

						DEMAND LOSS FACTOR = 1.147022				
		(RWH) Residential With Water Heating	(RL) Residential Service	(RH) Residential With Heating	Total Residential	(SGS) Small General Service	(SL) Street Lighting	(AL) Area Lighting	(SMS) Small Municipal and School Service	Total Loss Level 6 Sec Non-Demand
14	July - 23	-	224,400	122,893	347,293	44,178	2,311	5,123	2,341	401,247
15	August - 23	-	225,862	128,949	354,811	43,448	2,114	4,732	2,468	407,573
16	September - 23	-	189,033	100,377	289,409	41,723	1,970	4,033	1,910	339,045
17	October - 23	-	161,744	123,732	285,476	33,019	1,729	3,884	1,865	325,973
18	November - 23	-	144,015	126,140	270,155	27,503	1,656	3,376	1,464	304,154
19	December - 23	-	172,916	182,557	355,473	26,562	1,548	3,263	1,695	388,540
20	January - 24	-	171,029	173,661	344,689	37,994	1,581	3,764	2,057	390,086
21	February - 24	-	169,913	143,661	313,575	36,200	1,939	4,098	2,330	358,141
22	March - 24	-	156,116	144,678	300,793	39,163	1,858	4,133	2,234	348,180
23	April - 24	-	138,239	105,709	243,948	31,116	2,130	4,611	1,420	283,225
24	May - 24	-	178,733	107,925	286,658	39,550	2,270	4,982	2,454	335,913
25	June - 24	-	233,626	118,916	352,542	41,021	2,461	5,205	2,569	403,798
26	Max	-	233,626	182,557	355,473	44,178	2,461	5,205	2,569	407,573

Southwestern Public Service Company

Peak Demand Information

Part (b) ii (2 & 3)

NON-COINCIDENT CLASS PEAK DEMAND

FOR THE TEST YEAR ENDING: June 30, 2024

NON-COINCIDENT PEAK DEMAND AT THE METER

Line No.		(IP) Irrigation Service	(LMS) Large Municipal and School Service	(SG) Sec General Service	Total Loss Level 5 NCP Demand	(LMS -Pri) Large Municipal and School Pri	(PG) Primary General Service	Total Loss Level 4 NCP Demand	Sub-Trans. Loss Level 3 NCP Demand	BB Transmission Loss Level 2 NCP Demand
1	July - 23	24,357	24,277	147,735	196,369	-	323,214	323,214	-	-
2	August - 23	23,157	29,052	147,360	199,569	-	335,236	335,236	-	-
3	September - 23	25,280	25,481	139,020	189,781	-	379,033	379,033	-	-
4	October - 23	17,220	21,536	115,773	154,530	-	311,397	311,397	-	-
5	November - 23	10,114	16,743	114,314	141,172	-	340,630	340,630	-	-
6	December - 23	6,228	20,361	104,213	130,802	-	345,841	345,841	-	-
7	January - 24	6,078	19,256	133,495	158,828	-	328,574	328,574	-	-
8	February - 24	9,079	19,392	132,348	160,819	-	340,995	340,995	-	-
9	March - 24	14,072	22,444	140,438	176,954	-	367,478	367,478	-	-
10	April - 24	19,521	13,426	125,071	158,018	-	349,142	349,142	-	-
11	May - 24	20,995	24,962	141,443	187,400	-	336,367	336,367	-	-
12	June - 24	21,574	27,077	142,986	191,637	-	333,021	333,021	-	-
13	Max	25,280	29,052	147,735	199,569	-	379,033	379,033	-	-

NON-COINCIDENT PEAK DEMAND AT THE SOURCE

DEMAND LOSS FACTOR = 1.142271						DEMAND LOSS FACTOR = 1.110806		1.026867	1.020732	
	(IP)	(LMS)	(SG)	Total		(LMS -Pri)	(PG)	Total	Sub-Trans.	BB Transmission
	Irrigation	Large Municipal	Sec General	Loss Level 5		Large Municipal	Primary General	Loss Level 4	Loss Level 3	Loss Level 2
	Service	and School Service	Service	NCP Demand		and School Pri	Service	NCP Demand	NCP Demand	NCP Demand
14	July - 23	27,823	27,731	168,754	224,307	-	359,028	359,028	-	-
15	August - 23	26,451	33,185	168,326	227,962	-	372,382	372,382	-	-
16	September - 23	28,877	29,106	158,799	216,782	-	421,032	421,032	-	-
17	October - 23	19,670	24,600	132,244	176,515	-	345,902	345,902	-	-
18	November - 23	11,553	19,126	130,578	161,257	-	378,374	378,374	-	-
19	December - 23	7,114	23,258	119,040	149,412	-	384,163	384,163	-	-
20	January - 24	6,943	21,995	152,487	181,425	-	364,982	364,982	-	-
21	February - 24	10,370	22,151	151,177	183,699	-	378,779	378,779	-	-
22	March - 24	16,074	25,638	160,418	202,130	-	408,197	408,197	-	-
23	April - 24	22,298	15,337	142,865	180,499	-	387,829	387,829	-	-
24	May - 24	23,982	28,514	161,566	214,062	-	373,639	373,639	-	-
25	June - 24	24,643	30,929	163,329	218,901	-	369,921	369,921	-	-
26	Max	28,877	33,185	168,754	227,962	-	421,032	421,032	-	-

Southwestern Public Service Company

Peak Demand Information

Part (b) i (PRODUCTION) and ii (Major Customer Classification) (1 & 3)
 FOR THE TEST YEAR ENDED: JUNE 30, 2024

ADJUSTED COINCIDENT PEAK DEMAND AT THE METER

Line No.		Total Loss Level 6	Total Loss Level 5	Total Loss Level 4	Total Loss Level 3	Total Loss Level 2	New Mexico Retail
1	July - 23	310,282	174,949	305,558	16,692	526,546	1,334,027
2	August - 23	312,866	185,641	299,445	18,166	508,763	1,324,880
3	September - 23	238,490	181,007	320,275	14,111	564,512	1,318,394
4	October - 23	224,897	125,857	286,661	8,836	537,826	1,184,077
5	November - 23	227,347	114,194	306,903	12,324	530,363	1,191,131
6	December - 23	253,114	103,507	320,299	20,640	516,460	1,214,020
7	January - 24	283,665	129,900	301,185	14,418	451,845	1,181,013
8	February - 24	227,577	129,958	312,155	14,210	576,760	1,260,660
9	March - 24	236,457	137,334	335,787	14,362	494,574	1,218,514
10	April - 24	198,513	136,421	314,453	20,930	548,147	1,218,465
11	May - 24	256,689	168,271	318,103	18,493	589,284	1,350,840
12	June - 24	321,245	165,595	320,686	25,112	563,008	1,395,645
13	12-CP	257,595	146,053	311,793	16,524	534,007	1,265,972
14	4-CP	295,721	176,798	311,491	18,520	540,707	1,343,237
15	MAX PEAK	321,245	185,641	335,787	25,112	589,284	1,395,645

ADJUSTED COINCIDENT PEAK DEMAND AT THE SOURCE

		Total Loss Level 6	Total Loss Level 5	Total Loss Level 4	Total Loss Level 3	Total Loss Level 2	New Mexico Retail CP Demand
16	July - 23	355,900	199,839	339,415	17,140	537,462	1,449,758
17	August - 23	358,864	212,052	332,625	18,654	519,311	1,441,506
18	September - 23	273,553	206,759	355,763	14,490	576,216	1,426,780
19	October - 23	257,961	143,763	318,424	9,073	548,977	1,278,199
20	November - 23	260,772	130,440	340,910	12,655	541,358	1,286,136
21	December - 23	290,327	118,233	355,790	21,195	527,167	1,312,713
22	January - 24	325,370	148,381	334,558	14,805	461,213	1,284,328
23	February - 24	261,036	148,447	346,744	14,592	588,718	1,359,536
24	March - 24	271,221	156,872	372,994	14,748	504,827	1,320,663
25	April - 24	227,699	155,830	349,297	21,492	559,511	1,313,829
26	May - 24	294,428	192,211	353,351	18,990	601,501	1,460,481
27	June - 24	368,475	189,155	356,220	25,786	574,680	1,514,316
28	12-CP	295,467	166,832	346,341	16,968	545,078	1,370,687
29	4-CP	339,198	201,951	346,006	19,018	551,917	1,458,090
30	MAX PEAK	368,475	212,052	372,994	25,786	601,501	1,514,316

Southwestern Public Service Company

Peak Demand Information

Part (b) ii (1 & 3)

FOR THE TEST YEAR ENDED: JUNE 30, 2024

ADJUSTED COINCIDENT PEAK DEMAND AT THE METER

Line No.		(RWH) Residential With Water Heating	(RL) Residential Service	(RH) Residential With Heating	Total Residential	(SGS) Small General Service	(SL) Street Lighting	(AL) Area Lighting	(SMS) Small Muni and School Service	Total Loss Level 6 Secondary Non-Demand
1	July - 23	-	173,183	100,416	273,598	34,965	-	-	1,718	310,282
2	August - 23	-	170,946	104,343	275,289	35,615	-	-	1,962	312,866
3	September - 23	-	129,455	72,656	202,111	34,858	-	-	1,520	238,490
4	October - 23	-	119,793	80,559	200,352	23,298	-	-	1,246	224,897
5	November - 23	-	104,460	101,529	205,989	20,197	-	-	1,161	227,347
6	December - 23	-	115,003	117,659	232,662	19,091	-	-	1,360	253,114
7	January - 24	-	124,964	129,301	254,265	27,828	-	-	1,572	283,665
8	February - 24	-	107,600	90,881	198,481	27,467	-	-	1,629	227,577
9	March - 24	-	101,630	105,753	207,384	27,366	-	-	1,708	236,457
10	April - 24	-	100,230	75,851	176,080	21,592	-	-	841	198,513
11	May - 24	-	139,612	84,363	223,975	30,886	-	-	1,828	256,689
12	June - 24	-	193,752	95,726	289,478	30,110	-	-	1,656	321,245
13	12-CP	-	131,719	96,586	228,305	27,773	-	-	1,517	257,595
14	4-CP	-	166,834	93,285	260,119	33,887	-	-	1,714	295,721
15	MAX PEAK	-	193,752	129,301	289,478	35,615	-	-	1,962	321,245

ADJUSTED COINCIDENT PEAK DEMAND AT THE SOURCE

DEMAND LOSS FACTOR = 1.147022										
		(RWH) Residential With Water Heating	(RL) Residential Service	(RH) Residential With Heating	Total Residential	(SGS) Small General Service	(SL) Street Lighting	(AL) Area Lighting	(SMS) Small Muni and School Service	Total Loss Level 6 Secondary Non-Demand
16	July - 23	-	198,644	115,179	313,823	40,106	-	-	1,971	355,900
17	August - 23	-	196,079	119,683	315,763	40,851	-	-	2,250	358,864
18	September - 23	-	148,487	83,338	231,826	39,983	-	-	1,744	273,553
19	October - 23	-	137,405	92,403	229,809	26,723	-	-	1,430	257,961
20	November - 23	-	119,818	116,456	236,274	23,167	-	-	1,332	260,772
21	December - 23	-	131,911	134,958	266,869	21,898	-	-	1,560	290,327
22	January - 24	-	143,336	148,311	291,647	31,920	-	-	1,803	325,370
23	February - 24	-	123,420	104,243	227,663	31,505	-	-	1,869	261,036
24	March - 24	-	116,572	121,301	237,873	31,389	-	-	1,959	271,221
25	April - 24	-	114,965	87,002	201,968	24,767	-	-	964	227,699
26	May - 24	-	160,138	96,767	256,904	35,427	-	-	2,096	294,428
27	June - 24	-	222,238	109,800	332,038	34,537	-	-	1,900	368,475
28	12-CP	-	151,085	110,787	261,871	31,856	-	-	1,740	295,467
29	4-CP	-	191,362	107,000	298,362	38,869	-	-	1,966	339,198
30	MAX PEAK	-	222,238	148,311	332,038	40,851	-	-	2,250	368,475

Southwestern Public Service Company

Peak Demand Information

Part (b) ii (1 & 3)

FOR THE TEST YEAR ENDED: JUNE 30, 2024

ADJUSTED COINCIDENT PEAK DEMAND AT THE METER

Line No.		(IRR) Irrigation Service	(LMS) Large Municipal and School Service	(SG) Sec General Service	Total Loss Level 5 Secondary- Demand	(LMS -Pri) Large Municipal and School Service	(PG) Primary General Service	Total Loss Level 4 Primary Distribution	Sub-Trans. Loss Level 3 Transmission	BB - Transmission Loss Level 2 Transmission
1	July - 23	21,808	20,124	133,017	174,949	-	305,558	305,558	16,692	526,546
2	August - 23	20,664	25,201	139,776	185,641	-	299,445	299,445	18,166	508,763
3	September - 23	21,475	23,662	135,870	181,007	-	320,275	320,275	14,111	564,512
4	October - 23	9,516	14,749	101,592	125,857	-	286,661	286,661	8,836	537,826
5	November - 23	2,034	13,510	98,649	114,194	-	306,903	306,903	12,324	530,363
6	December - 23	1,562	14,738	87,207	103,507	-	320,299	320,299	20,640	516,460
7	January - 24	1,424	15,122	113,354	129,900	-	301,185	301,185	14,418	451,845
8	February - 24	1,432	14,806	113,720	129,958	-	312,155	312,155	14,210	576,760
9	March - 24	4,507	16,154	116,673	137,334	-	335,787	335,787	14,362	494,574
10	April - 24	15,048	10,555	110,818	136,421	-	314,453	314,453	20,930	548,147
11	May - 24	18,190	20,717	129,364	168,271	-	318,103	318,103	18,493	589,284
12	June - 24	19,203	21,479	124,913	165,595	-	320,686	320,686	25,112	563,008
13	12-CP	11,405	17,568	117,079	146,053	-	311,793	311,793	16,524	534,007
14	4-CP	20,787	22,617	133,394	176,798	-	311,491	311,491	18,520	540,707
15	MAX PEAK	21,808	25,201	139,776	185,641	-	335,787	335,787	25,112	589,284

ADJUSTED COINCIDENT PEAK DEMAND AT THE SOURCE

DEMAND LOSS FACTOR = 1.142271					DEMAND LOSS FACTOR = 1.110806 1.026867 1.020732				
	(IRR) Irrigation Service	(LMS) Large Municipal and School Service	(SG) Sec General Service	Total Loss Level 5 Secondary- Demand	(LMS -Pri) Large Municipal and School Service	(PG) Primary General Service	Total Loss Level 4 Primary Distribution	Sub-Trans. Loss Level 3 Transmission	BB - Transmission Loss Level 2 Transmission
16	July - 23	24,911	22,988	151,941	-	339,415	339,415	17,140	537,462
17	August - 23	23,604	28,786	159,662	-	332,625	332,625	18,654	519,311
18	September - 23	24,530	27,028	155,200	-	355,763	355,763	14,490	576,216
19	October - 23	10,870	16,848	116,046	-	318,424	318,424	9,073	548,977
20	November - 23	2,324	15,432	112,684	-	340,910	340,910	12,655	541,358
21	December - 23	1,784	16,835	99,615	-	355,790	355,790	21,195	527,167
22	January - 24	1,627	17,273	129,481	-	334,558	334,558	14,805	461,213
23	February - 24	1,635	16,912	129,899	-	346,744	346,744	14,592	588,718
24	March - 24	5,148	18,453	133,272	-	372,994	372,994	14,748	504,827
25	April - 24	17,189	12,057	126,584	-	349,297	349,297	21,492	559,511
26	May - 24	20,778	23,665	147,768	-	353,351	353,351	18,990	601,501
27	June - 24	21,935	24,535	142,684	-	356,220	356,220	25,786	574,680
28	12-CP	13,028	20,068	133,736	-	346,341	346,341	16,968	545,078
29	4-CP	23,745	25,834	152,372	-	346,006	346,006	19,018	551,917
30	MAX PEAK	24,911	28,786	159,662	-	372,994	372,994	25,786	601,501

Southwestern Public Service Company

Peak Demand Information

Part (b) i (TRANSMISSION) and ii (Major Customer Classification) (1 & 3)
 FOR THE TEST YEAR ENDED: JUNE 30, 2024

ADJUSTED COINCIDENT PEAK DEMAND AT THE METER

Line No.		Total Loss Level 6	Total Loss Level 5	Total Loss Level 4	Total Loss Level 3	Total 2	New Mexico Retail CP Demand
1	July - 23	310,282	174,949	305,558	16,692	526,546	1,334,027
2	August - 23	312,866	185,641	299,445	18,166	508,763	1,324,880
3	September - 23	238,490	181,007	320,275	14,111	564,512	1,318,394
4	October - 23	224,897	125,857	286,661	8,836	537,826	1,184,077
5	November - 23	227,347	114,194	306,903	12,324	530,363	1,191,131
6	December - 23	253,114	103,507	320,299	20,640	516,460	1,214,020
7	January - 24	283,665	129,900	301,185	14,418	451,846	1,181,014
8	February - 24	227,577	129,958	312,155	14,210	576,760	1,260,660
9	March - 24	236,457	137,334	335,787	14,362	494,574	1,218,513
10	April - 24	198,513	136,421	314,453	20,930	548,147	1,218,465
11	May - 24	256,689	168,271	318,103	18,493	589,284	1,350,841
12	June - 24	321,245	165,595	320,687	25,112	563,008	1,395,645
13	12-CP	257,595	146,053	311,793	16,524	534,007	1,265,972
14	4-CP	295,721	176,798	311,491	18,520	540,707	1,343,237
15	MAX PEAK	321,245	185,641	335,787	25,112	589,284	1,395,645

ADJUSTED COINCIDENT PEAK DEMAND AT THE SOURCE

		Total Loss Level 6	Total Loss Level 5	Total Loss Level 4	Total Loss Level 3	Total Loss Level 2	New Mexico Retail CP Demand
16	July - 23	355,900	199,839	339,415	17,140	537,462	1,449,758
17	August - 23	358,864	212,052	332,625	18,654	519,311	1,441,506
18	September - 23	273,553	206,759	355,763	14,490	576,216	1,426,780
19	October - 23	257,961	143,763	318,424	9,073	548,976	1,278,199
20	November - 23	260,772	130,440	340,910	12,655	541,358	1,286,136
21	December - 23	290,327	118,233	355,790	21,195	527,167	1,312,712
22	January - 24	325,370	148,381	334,559	14,805	461,213	1,284,328
23	February - 24	261,036	148,447	346,744	14,592	588,718	1,359,536
24	March - 24	271,221	156,872	372,994	14,748	504,827	1,320,663
25	April - 24	227,699	155,830	349,297	21,492	559,511	1,313,829
26	May - 24	294,428	192,211	353,351	18,990	601,502	1,460,481
27	June - 24	368,475	189,155	356,220	25,786	574,680	1,514,316
28	12-CP	295,467	166,832	346,341	16,968	545,078	1,370,687
29	4-CP	339,198	201,951	346,006	19,018	551,917	1,458,090
30	MAX PEAK	368,475	212,052	372,994	25,786	601,502	1,514,316

Southwestern Public Service Company

Peak Demand Information

Part (b) ii (1 & 3)

FOR THE TEST YEAR ENDED: JUNE 30, 2024

ADJUSTED COINCIDENT PEAK DEMAND AT THE METER

Line No.		(RWH) Residential With Water Heating	(RL) Residential Service	(RH) Residential With Heating	Total Residential	(SGS) Small General Service	(SL) Street Lighting	(AL) Area Lighting	(SMS) Small Muni and School Service	Total Loss Level 6 Secondary Non-Demand
1	July - 23	-	173,183	100,416	273,598	34,965	-	-	1,718	310,282
2	August - 23	-	170,947	104,343	275,289	35,615	-	-	1,962	312,866
3	September - 23	-	129,455	72,656	202,111	34,858	-	-	1,520	238,490
4	October - 23	-	119,793	80,559	200,352	23,298	-	-	1,246	224,897
5	November - 23	-	104,460	101,529	205,989	20,197	-	-	1,161	227,347
6	December - 23	-	115,003	117,659	232,662	19,091	-	-	1,360	253,114
7	January - 24	-	124,964	129,301	254,265	27,828	-	-	1,572	283,665
8	February - 24	-	107,600	90,881	198,481	27,467	-	-	1,629	227,577
9	March - 24	-	101,630	105,753	207,384	27,366	-	-	1,708	236,457
10	April - 24	-	100,230	75,851	176,080	21,592	-	-	841	198,513
11	May - 24	-	139,612	84,363	223,975	30,886	-	-	1,828	256,689
12	June - 24	-	193,752	95,726	289,478	30,110	-	-	1,656	321,245
13	12-CP	-	131,719	96,586	228,305	27,773	-	-	1,517	257,595
14	4-CP	-	166,834	93,285	260,119	33,887	-	-	1,714	295,721
15	MAX PEAK	-	193,752	129,301	289,478	35,615	-	-	1,962	321,245

ADJUSTED COINCIDENT PEAK DEMAND AT THE SOURCE

DEMAND LOSS FACTOR = 1.147022										Total Loss Level 6 Secondary Non-Demand
		(RWH) Residential With Water Heating	(RL) Residential Service	(RH) Residential With Heating	Total Residential	(SGS) Small General Service	(SL) Street Lighting	(AL) Area Lighting	(SMS) Small Muni and School Service	
16	July - 23	-	198,644	115,179	313,823	40,106	-	-	1,971	355,900
17	August - 23	-	196,079	119,683	315,763	40,851	-	-	2,250	358,864
18	September - 23	-	148,487	83,338	231,826	39,983	-	-	1,744	273,553
19	October - 23	-	137,405	92,403	229,809	26,723	-	-	1,430	257,961
20	November - 23	-	119,818	116,456	236,274	23,167	-	-	1,332	260,772
21	December - 23	-	131,911	134,958	266,869	21,898	-	-	1,560	290,327
22	January - 24	-	143,336	148,311	291,647	31,920	-	-	1,803	325,370
23	February - 24	-	123,420	104,243	227,663	31,505	-	-	1,869	261,036
24	March - 24	-	116,572	121,301	237,873	31,389	-	-	1,959	271,221
25	April - 24	-	114,965	87,002	201,968	24,767	-	-	964	227,699
26	May - 24	-	160,138	96,767	256,904	35,427	-	-	2,096	294,428
27	June - 24	-	222,238	109,800	332,038	34,537	-	-	1,900	368,475
28	12-CP	-	151,085	110,787	261,871	31,856	-	-	1,740	295,467
29	4-CP	-	191,362	107,000	298,362	38,869	-	-	1,966	339,198
30	MAX PEAK	-	222,238	148,311	332,038	40,851	-	-	2,250	368,475

Southwestern Public Service Company

Plant in Service

Parts (a, c, d) Four Years Prior to Test Year Period

Total Company

Line No.	Functional Classification	12/31/2019	12/31/2020	12/31/2021	12/31/2022	12/31/2023
1	Intangible Plant	\$ 230,199,569	\$ 247,106,854	\$ 270,486,878	\$ 317,355,208	\$ 355,705,974
2	Steam Production Plant	1,956,349,625	1,969,351,999	1,997,635,080	2,054,582,181	2,040,235,923
3	Other Production Plant	992,671,964	1,851,456,790	1,859,422,903	1,864,460,257	1,894,376,193
4	Transmission Plant	3,271,394,574	3,692,252,143	3,892,445,109	4,123,447,785	4,320,195,861
5	Distribution Plant	1,490,887,064	1,632,284,718	1,773,303,015	1,927,978,526	2,112,515,131
6	General Plant	506,052,439	558,873,333	575,856,327	653,541,267	772,453,809
7	Electric Plant Purchased	-	-	-	-	-
8	Removal of Asset Retirement Costs					
9	Asset Retirement Cost - Steam	\$ (28,046,786)	\$ (25,794,491)	\$ (25,842,882)	\$ (25,842,882)	\$ (25,842,882)
10	Asset Retirement Cost - Other	(16,152,845)	(49,157,323)	(49,157,323)	(49,157,323)	(49,157,323)
11	Asset Retirement Cost - Transmission	(25,029)	(25,029)	(25,029)	(25,029)	(25,029)
12	Asset Retirement Cost - Distribution	(7,467,368)	(7,467,368)	(7,467,368)	(7,467,368)	(7,467,368)
13	Asset Retirement Cost - General	(64,394)	-	-	-	-
14	Total Removal of Asset Retirement Costs	<u>\$ (51,756,421)</u>	<u>\$ (82,444,211)</u>	<u>\$ (82,492,601)</u>	<u>\$ (82,492,601)</u>	<u>\$ (82,492,601)</u>
15	Total Electric Plant In Service *	<u>\$ 8,395,798,813</u>	<u>\$ 9,868,881,627</u>	<u>\$ 10,286,656,710</u>	<u>\$ 10,858,872,622</u>	<u>\$ 11,412,990,290</u>
16	Plant Held For Future Use	\$ 4,167,109	\$ 4,167,109	\$ 4,167,109	\$ 4,167,109	\$ 5,250,906
17	Construction Work In Progress	486,406,071	146,724,801	170,971,664	141,754,976	189,465,279
18	Electric Plant Acquisition Adjustment	-	-	-	-	-
19	Total Electric Utility Plant	<u>\$ 8,886,371,993</u>	<u>\$ 10,019,773,537</u>	<u>\$ 10,461,795,482</u>	<u>\$ 11,004,794,706</u>	<u>\$ 11,607,706,474</u>

Southwestern Public Service Company

Plant in Service

Parts (b, c, d) Four Years Prior to Test Year Period
New Mexico Jurisdiction

Line No.	Functional Classification	12/31/2019 ⁽¹⁾	12/31/2020 ⁽¹⁾	12/31/2021 ⁽²⁾	12/31/2022 ⁽²⁾	12/31/2023 ⁽³⁾
20	Intangible Plant	\$ 69,363,986	\$ 74,458,508	\$ 87,569,763	\$ 102,743,322	\$ 124,588,623
21	Steam Production Plant	610,631,813	614,690,220	689,469,555	709,124,442	790,578,604
22	Other Production Plant	309,840,876	577,891,805	641,766,604	643,505,211	734,058,875
23	Transmission Plant	809,340,482	913,460,319	1,051,369,526	1,113,764,542	1,286,306,092
24	Distribution Plant	552,700,083	605,118,873	684,368,270	744,061,966	804,838,938
25	General Plant	152,233,147	168,122,984	186,523,112	211,685,702	270,543,481
26	Electric Plant Purchased	-	-	-	-	-
27	Removal of Asset Retirement Costs					
28	Asset Retirement Cost - Steam	\$ (8,754,192)	\$ (8,051,187)	\$ (8,919,487)	\$ (8,919,487)	\$ (10,013,954)
29	Asset Retirement Cost - Other	(5,041,758)	(15,343,385)	(16,966,301)	(16,966,301)	(19,048,154)
30	Asset Retirement Cost - Transmission	(6,192)	(6,192)	(6,760)	(6,760)	(7,452)
31	Asset Retirement Cost - Distribution	(2,768,295)	(2,768,295)	(2,881,870)	(2,881,870)	(2,844,963)
32	Asset Retirement Cost - General	(19,371)	-	-	-	-
33	Total Removal of Asset Retirement Costs	<u>(16,589,808)</u>	<u>(26,169,059)</u>	<u>(28,774,419)</u>	<u>(28,774,419)</u>	<u>(31,914,524)</u>
34	Total Electric Plant In Service	<u>\$ 2,487,520,579</u>	<u>\$ 2,927,573,650</u>	<u>\$ 3,312,292,412</u>	<u>\$ 3,496,110,767</u>	<u>\$ 3,979,000,090</u>
35	Plant Held For Future Use	1,010,255	1,010,255	1,099,375	1,099,375	1,582,947
36	Construction Work In Progress	157,457,709	47,497,251	50,760,402	42,086,153	61,607,369
37	Electric Plant Acquisition Adjustment	-	-	-	-	-
38	Total Electric Utility Plant	<u>\$ 2,645,988,543</u>	<u>\$ 2,976,081,155</u>	<u>\$ 3,364,152,189</u>	<u>\$ 3,539,296,296</u>	<u>\$ 4,042,190,406</u>

Notes:

Amounts may appear to not total or tie due to rounding.

* Asset Retirement Costs are included as a part of the FERC Account 101 Balance in the Trial Balance of SPS. These amounts are not included in Rate Base and are removed from this schedule to reflect that. Also, the forecast does not include Asset Retirement Costs.

⁽¹⁾ Plant in Service and Construction Work in Progress allocated to New Mexico jurisdiction based on factors from Case No. 20-00238-UT.

⁽²⁾ Plant in Service and Construction Work in Progress allocated to New Mexico jurisdiction based on this current filing's Base Period.

⁽³⁾ Plant in Service and Construction Work in Progress allocated to New Mexico jurisdiction based on factors from this current filing's Test Year.

Southwestern Public Service Company

Plant in Service

Parts (a, c, e) Twelve Months of the Test Year Period
Total Company

Line No.	Functional Classification	7/31/2023	8/31/2023	9/30/2023	10/31/2023	11/30/2023	12/31/2023
1	Intangible Plant	\$ 328,866,027	\$ 329,174,818	\$ 331,622,155	\$ 333,022,088	\$ 334,507,384	\$ 355,705,974
2	Steam Production Plant	2,069,878,049	2,073,980,592	2,076,137,790	2,084,887,561	2,090,098,366	2,040,235,923
3	Other Production Plant	1,883,337,793	1,883,993,389	1,884,322,450	1,884,382,684	1,893,584,455	1,894,376,193
4	Transmission Plant	4,244,913,921	4,242,310,576	4,245,300,300	4,245,006,391	4,254,262,411	4,320,195,861
5	Distribution Plant	2,003,768,303	2,013,329,573	2,022,283,693	2,032,358,357	2,059,758,543	2,112,515,131
6	General Plant	711,464,678	717,347,093	726,611,396	740,270,800	747,713,033	772,453,809
7	Electric Plant Purchased	-	-	-	-	-	-
8	Removal of Asset Retirement Costs						
9	Asset Retirement Cost - Steam	\$ (25,842,882)	\$ (25,842,882)	\$ (25,842,882)	\$ (25,842,882)	\$ (25,842,882)	\$ (25,842,882)
10	Asset Retirement Cost - Other	(49,157,323)	(49,157,323)	(49,157,323)	(49,157,323)	(49,157,323)	(49,157,323)
11	Asset Retirement Cost - Transmission	(25,029)	(25,029)	(25,029)	(25,029)	(25,029)	(25,029)
12	Asset Retirement Cost - Distribution	(7,467,368)	(7,467,368)	(7,467,368)	(7,467,368)	(7,467,368)	(7,467,368)
13	Asset Retirement Cost - General	-	-	-	-	-	-
14	Total Removal of Asset Retirement Costs	<u>\$ (82,492,601)</u>	<u>\$ (82,492,601)</u>	<u>\$ (82,492,601)</u>	<u>\$ (82,492,601)</u>	<u>\$ (82,492,601)</u>	<u>\$ (82,492,601)</u>
15	Total Electric Plant In Service *	<u>\$ 11,159,736,170</u>	<u>\$ 11,177,643,440</u>	<u>\$ 11,203,785,182</u>	<u>\$ 11,237,435,279</u>	<u>\$ 11,297,431,590</u>	<u>\$ 11,412,990,290</u>
16	Plant Held For Future Use	\$ 4,167,109	\$ 4,167,109	\$ 4,167,109	\$ 5,202,092	\$ 5,226,499	\$ 5,250,906
17	Construction Work In Progress	232,739,788	251,793,958	271,226,593	285,441,081	271,151,397	189,465,279
18	Electric Plant Acquisition Adjustment	-	-	-	-	-	-
19	Total Electric Utility Plant	<u>\$ 11,396,643,067</u>	<u>\$ 11,433,604,506</u>	<u>\$ 11,479,178,884</u>	<u>\$ 11,528,078,451</u>	<u>\$ 11,573,809,485</u>	<u>\$ 11,607,706,474</u>

Southwestern Public Service Company

Plant in Service

Parts (a, c, e) Twelve Months of the Test Year Period
Total Company

Line No.	Functional Classification	1/31/2024	2/28/2024	3/31/2024	4/30/2024	5/31/2024	6/30/2024
1	Intangible Plant	\$ 357,696,147	\$ 359,613,298	\$ 365,663,399	\$ 365,926,013	\$ 367,317,765	\$ 368,464,743
2	Steam Production Plant	2,041,564,713	2,041,942,695	2,044,346,621	2,045,323,165	2,060,239,324	2,066,425,245
3	Other Production Plant	1,894,407,425	1,894,418,972	1,894,421,757	1,894,427,114	1,894,450,893	1,894,456,505
4	Transmission Plant	4,319,200,393	4,320,931,094	4,325,976,485	4,329,709,126	4,391,201,682	4,395,975,307
5	Distribution Plant	2,123,355,245	2,133,726,745	2,144,763,673	2,157,826,363	2,171,500,005	2,187,011,894
6	General Plant	775,469,956	778,417,789	788,154,485	792,852,395	802,969,415	811,227,985
7	Electric Plant Purchased	-	-	-	-	-	-
8	Removal of Asset Retirement Costs						
9	Asset Retirement Cost - Steam	\$ (25,842,882)	\$ (25,842,882)	\$ (25,842,882)	\$ (25,842,882)	\$ (25,842,882)	\$ (25,842,882)
10	Asset Retirement Cost - Other	(49,157,323)	(49,157,323)	(49,157,323)	(49,157,323)	(49,157,323)	(49,157,323)
11	Asset Retirement Cost - Transmission	(25,029)	(25,029)	(25,029)	(25,029)	(25,029)	(25,029)
12	Asset Retirement Cost - Distribution	(7,467,368)	(7,467,368)	(7,467,368)	(7,467,368)	(7,467,368)	(7,467,368)
13	Asset Retirement Cost - General	-	-	-	-	-	-
14	Total Removal of Asset Retirement Costs	<u>\$ (82,492,601)</u>	<u>\$ (82,492,601)</u>	<u>\$ (82,492,601)</u>	<u>\$ (82,492,601)</u>	<u>\$ (82,492,601)</u>	<u>\$ (82,492,601)</u>
15	Total Electric Plant In Service *	<u>\$ 11,429,201,276</u>	<u>\$ 11,446,557,991</u>	<u>\$ 11,480,833,819</u>	<u>\$ 11,503,571,575</u>	<u>\$ 11,605,186,483</u>	<u>\$ 11,641,069,076</u>
16	Plant Held For Future Use	\$ 5,250,906	\$ 5,250,906	\$ 5,250,906	\$ 5,250,906	\$ 5,250,906	\$ 5,250,906
17	Construction Work In Progress	216,657,015	251,249,908	272,833,651	319,075,149	287,308,010	303,326,057
18	Electric Plant Acquisition Adjustment	-	-	-	-	-	-
19	Total Electric Utility Plant	<u>\$ 11,651,109,198</u>	<u>\$ 11,703,058,806</u>	<u>\$ 11,758,918,375</u>	<u>\$ 11,827,897,630</u>	<u>\$ 11,897,745,399</u>	<u>\$ 11,949,646,039</u>

Southwestern Public Service Company

Plant in Service

Parts (b, c, e) Twelve Months of the Test Year Period
New Mexico Jurisdiction

Line No.	Functional Classification	7/31/2023 ⁽³⁾	8/31/2023 ⁽³⁾	9/30/2023 ⁽³⁾	10/31/2023 ⁽³⁾	11/30/2023 ⁽³⁾	12/31/2023 ⁽³⁾
20	Intangible Plant	\$ 115,187,736	\$ 115,295,892	\$ 116,153,090	\$ 116,643,426	\$ 117,163,662	\$ 124,588,623
21	Steam Production Plant	802,064,742	803,654,451	804,490,352	807,880,833	809,899,987	790,578,604
22	Other Production Plant	729,781,564	730,035,603	730,163,112	730,186,453	733,752,081	734,058,875
23	Transmission Plant	1,263,891,456	1,263,116,330	1,264,006,497	1,263,918,988	1,266,674,899	1,286,306,092
24	Distribution Plant	763,407,906	767,050,618	770,462,013	774,300,320	784,739,411	804,838,938
25	General Plant	249,182,706	251,242,958	254,487,678	259,271,735	261,878,295	270,543,481
26	Electric Plant Purchased	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
27	Removal of Asset Retirement Costs						
28	Asset Retirement Cost - Steam	\$ (10,013,954)	\$ (10,013,954)	\$ (10,013,954)	\$ (10,013,954)	\$ (10,013,954)	\$ (10,013,954)
29	Asset Retirement Cost - Other	(19,048,154)	(19,048,154)	(19,048,154)	(19,048,154)	(19,048,154)	(19,048,154)
30	Asset Retirement Cost - Transmission	(7,452)	(7,452)	(7,452)	(7,452)	(7,452)	(7,452)
31	Asset Retirement Cost - Distribution	(2,844,963)	(2,844,963)	(2,844,963)	(2,844,963)	(2,844,963)	(2,844,963)
32	Asset Retirement Cost - General	-	-	-	-	-	-
33	Total Removal of Asset Retirement Costs	\$ (31,914,524)	\$ (31,914,524)	\$ (31,914,524)	\$ (31,914,524)	\$ (31,914,524)	\$ (31,914,524)
34	Total Electric Plant In Service	\$ 3,891,601,587	\$ 3,898,481,328	\$ 3,907,848,219	\$ 3,920,287,232	\$ 3,942,193,812	\$ 3,979,000,090
35	Plant Held For Future Use	\$ 1,256,223	\$ 1,256,223	\$ 1,256,223	\$ 1,568,231	\$ 1,575,589	\$ 1,582,947
36	Construction Work In Progress	75,678,700	81,874,438	88,193,240	92,815,286	88,168,789	61,607,369
37	Electric Plant Acquisition Adjustment	-	-	-	-	-	-
38	Total Electric Utility Plant	\$ 3,968,536,510	\$ 3,981,611,990	\$ 3,997,297,682	\$ 4,014,670,749	\$ 4,031,938,190	\$ 4,042,190,406

Notes:

Amounts may appear to not total or tie due to rounding.

⁽³⁾ Plant in Service and Construction Work in Progress allocated to New Mexico jurisdiction based on factors from this current filing's Test Year.

Southwestern Public Service Company

Plant in Service

Parts (b, c, e) Twelve Months of the Test Year Period
New Mexico Jurisdiction

Line No.	Functional Classification	1/31/2024 ⁽³⁾	2/28/2024 ⁽³⁾	3/31/2024 ⁽³⁾	4/30/2024 ⁽³⁾	5/31/2024 ⁽³⁾	6/30/2024 ⁽³⁾
20	Intangible Plant	\$ 125,285,696	\$ 125,957,192	\$ 128,076,285	\$ 128,168,267	\$ 128,655,738	\$ 129,057,476
21	Steam Production Plant	791,093,502	791,239,967	792,171,474	792,549,878	798,329,796	800,726,802
22	Other Production Plant	734,070,977	734,075,451	734,076,531	734,078,607	734,087,821	734,089,995
23	Transmission Plant	1,286,009,699	1,286,525,002	1,288,027,230	1,289,138,596	1,307,447,546	1,308,868,857
24	Distribution Plant	808,968,871	812,920,269	817,125,185	822,101,889	827,311,357	833,221,171
25	General Plant	271,599,853	272,632,300	276,042,471	277,687,862	281,231,238	284,123,711
26	Electric Plant Purchased	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
27	Removal of Asset Retirement Costs						
28	Asset Retirement Cost - Steam	\$ (10,013,954)	\$ (10,013,954)	\$ (10,013,954)	\$ (10,013,954)	\$ (10,013,954)	\$ (10,013,954)
29	Asset Retirement Cost - Other	(19,048,154)	(19,048,154)	(19,048,154)	(19,048,154)	(19,048,154)	(19,048,154)
30	Asset Retirement Cost - Transmission	(7,452)	(7,452)	(7,452)	(7,452)	(7,452)	(7,452)
31	Asset Retirement Cost - Distribution	(2,844,963)	(2,844,963)	(2,844,963)	(2,844,963)	(2,844,963)	(2,844,963)
32	Asset Retirement Cost - General	-	-	-	-	-	-
33	Total Removal of Asset Retirement Costs	\$ (31,914,524)	\$ (31,914,524)	\$ (31,914,524)	\$ (31,914,524)	\$ (31,914,524)	\$ (31,914,524)
34	Total Electric Plant In Service	<u>\$ 3,985,114,075</u>	<u>\$ 3,991,435,658</u>	<u>\$ 4,003,604,651</u>	<u>\$ 4,011,810,575</u>	<u>\$ 4,045,148,972</u>	<u>\$ 4,058,173,488</u>
35	Plant Held For Future Use	\$ 1,582,947	\$ 1,582,947	\$ 1,582,947	\$ 1,582,947	\$ 1,582,947	\$ 1,582,947
36	Construction Work In Progress	70,449,155	81,697,533	88,715,798	103,751,888	93,422,345	98,630,844
37	Electric Plant Acquisition Adjustment	-	-	-	-	-	-
38	Total Electric Utility Plant	<u>\$ 4,057,146,176</u>	<u>\$ 4,074,716,138</u>	<u>\$ 4,093,903,396</u>	<u>\$ 4,117,145,410</u>	<u>\$ 4,140,154,263</u>	<u>\$ 4,158,387,278</u>

Notes:

Amounts may appear to not total or tie due to rounding.

⁽³⁾ Plant in Service and Construction Work in Progress allocated to New Mexico jurisdiction based on factors from this current filing's Test Year.

Southwestern Public Service Company

Plant in Service

Parts (a, c, f) Five Years Beyond Base Period
Total Company

Line No.	Functional Classification	12/31/2022	12/31/2023	12/31/2024	12/31/2025	12/31/2026	12/31/2027
1	Intangible Plant	\$ 317,355,208	\$ 355,705,974	\$ 417,366,025	\$ 441,690,727	\$ 469,248,126	\$ 521,432,429
2	Steam Production Plant	2,054,582,181	2,040,235,923	2,071,004,520	2,046,548,441	2,066,713,073	1,978,414,229
3	Other Production Plant	1,864,460,257	1,894,376,193	1,904,249,245	1,912,523,377	1,918,076,532	1,944,611,245
4	Transmission Plant	4,123,447,785	4,320,195,861	4,540,353,275	4,744,190,129	4,857,857,270	5,680,128,780
5	Distribution Plant	1,927,978,526	2,112,515,131	2,303,950,768	2,453,008,526	2,614,994,751	2,793,151,133
6	General Plant	653,541,267	772,453,809	888,192,503	973,665,954	1,049,517,872	1,119,786,223
7	Electric Plant Purchased	-	-	-	-	-	-
8	Removal of Asset Retirement Costs						
9	Asset Retirement Cost - Steam	\$ (25,842,882)	\$ (25,842,882)	\$ (25,842,882)	\$ (25,842,882)	\$ (25,842,882)	\$ (25,842,882)
10	Asset Retirement Cost - Other	(49,157,323)	(49,157,323)	(49,157,323)	(49,157,323)	(49,157,323)	(49,157,323)
11	Asset Retirement Cost - Transmission	(25,029)	(25,029)	(25,029)	(25,029)	(25,029)	(25,029)
12	Asset Retirement Cost - Distribution	(7,467,368)	(7,467,368)	(7,467,368)	(7,467,368)	(7,467,368)	(7,467,368)
13	Asset Retirement Cost - General	-	-	-	-	-	-
14	Total Removal of Asset Retirement Costs	<u>\$ (82,492,601)</u>	<u>\$ (82,492,601)</u>	<u>\$ (82,492,601)</u>	<u>\$ (82,492,601)</u>	<u>\$ (82,492,601)</u>	<u>\$ (82,492,601)</u>
15	Total Electric Plant In Service *	<u>\$ 10,858,872,622</u>	<u>\$ 11,412,990,290</u>	<u>\$ 12,042,623,736</u>	<u>\$ 12,489,134,554</u>	<u>\$ 12,893,915,022</u>	<u>\$ 13,955,031,437</u>
16	Plant Held For Future Use	4,167,109	5,250,906	4,167,109	4,167,109	4,167,109	4,167,109
17	Construction Work In Progress	141,754,976	189,465,279	212,641,179	366,650,961	699,495,312	404,306,696
18	Electric Plant Acquisition Adjustment	-	-	-	-	-	-
19	Total Electric Utility Plant	<u>\$ 11,004,794,706</u>	<u>\$ 11,607,706,474</u>	<u>\$ 12,259,432,023</u>	<u>\$ 12,859,952,624</u>	<u>\$ 13,597,577,443</u>	<u>\$ 14,363,505,242</u>

Southwestern Public Service Company

Plant in Service

Parts (b, c, f) Five Years Beyond Base Period
New Mexico Jurisdiction

Line No.	Functional Classification	12/31/2022 ⁽³⁾	12/31/2023 ⁽³⁾	12/31/2024 ⁽³⁾	12/31/2025 ⁽³⁾	12/31/2026 ⁽³⁾	12/31/2027 ⁽³⁾
20	Intangible Plant	\$ 111,155,987	\$ 124,588,623	\$ 146,185,508	\$ 154,705,414	\$ 164,357,594	\$ 182,635,529
21	Steam Production Plant	796,137,689	790,578,604	802,501,242	793,024,665	800,838,333	766,623,086
22	Other Production Plant	722,466,638	734,058,875	737,884,621	741,090,795	743,242,607	753,524,642
23	Transmission Plant	1,227,725,820	1,286,306,092	1,351,856,320	1,412,547,223	1,446,390,766	1,691,215,975
24	Distribution Plant	734,533,053	804,838,938	877,773,258	934,562,195	996,276,698	1,064,151,806
25	General Plant	228,895,666	270,543,481	311,079,690	341,015,830	367,582,133	392,192,853
26	Electric Plant Purchased	-	-	-	-	-	-
27	Removal of Asset Retirement Costs						
28	Asset Retirement Cost - Steam	\$ (10,013,954)	\$ (10,013,954)	\$ (10,013,954)	\$ (10,013,954)	\$ (10,013,954)	\$ (10,013,954)
29	Asset Retirement Cost - Other	(19,048,154)	(19,048,154)	(19,048,154)	(19,048,154)	(19,048,154)	(19,048,154)
30	Asset Retirement Cost - Transmission	(7,452)	(7,452)	(7,452)	(7,452)	(7,452)	(7,452)
31	Asset Retirement Cost - Distribution	(2,844,963)	(2,844,963)	(2,844,963)	(2,844,963)	(2,844,963)	(2,844,963)
32	Asset Retirement Cost - General	-	-	-	-	-	-
33	Total Removal of Asset Retirement Costs	<u>\$ (31,914,524)</u>	<u>\$ (31,914,524)</u>	<u>\$ (31,914,524)</u>	<u>\$ (31,914,524)</u>	<u>\$ (31,914,524)</u>	<u>\$ (31,914,524)</u>
34	Total Electric Plant In Service	<u>\$ 3,789,000,329</u>	<u>\$ 3,979,000,090</u>	<u>\$ 4,195,366,116</u>	<u>\$ 4,345,031,597</u>	<u>\$ 4,486,773,608</u>	<u>\$ 4,818,429,366</u>
35	Plant Held For Future Use	\$ 1,256,223	\$ 1,582,947	\$ 1,256,223	\$ 1,256,223	\$ 1,256,223	\$ 1,256,223
36	Construction Work In Progress	46,093,676	61,607,369	69,143,348	119,221,850	227,450,993	131,466,156
37	Electric Plant Acquisition Adjustment	-	-	-	-	-	-
38	Total Electric Utility Plant	<u>\$ 3,836,350,228</u>	<u>\$ 4,042,190,406</u>	<u>\$ 4,265,765,687</u>	<u>\$ 4,465,509,671</u>	<u>\$ 4,715,480,824</u>	<u>\$ 4,951,151,745</u>

Notes:

Amounts may appear to not total or tie due to rounding.

⁽³⁾ Plant in Service and Construction Work in Progress allocated to New Mexico jurisdiction based on factors from this current filing's Test Year.

Southwestern Public Service Company

Property Retirements and Property Investment Information

Parts (a, c, d) Four Years Prior to Test Year Period

Total Company

Line No.	Functional Classification	12/31/2019	12/31/2020	12/31/2021	12/31/2022	12/31/2023
1	Property Additions					
2	Production	\$ 733,803,675	\$ 870,228,941	\$ 59,599,451	\$ 80,933,313	\$ 71,776,396
3	Transmission	299,192,231	431,364,151	211,909,823	247,568,000	214,870,806
4	Distribution	117,643,015	166,189,302	158,611,250	169,781,961	200,843,181
5	General & Intangible	70,476,669	78,169,121	80,343,315	124,553,270	157,263,308
6	Total Additions	\$ 1,221,115,591	\$ 1,545,951,515	\$ 510,463,838	\$ 622,836,545	\$ 644,753,692
7	Property Retirements					
8	Production	\$ (3,221,903)	\$ (28,888,316)	\$ (21,722,716)	\$ (18,948,858)	\$ (56,206,718)
9	Transmission	(14,445,283)	(11,158,889)	(13,700,508)	(16,565,325)	(18,122,730)
10	Distribution	(6,159,842)	(24,083,132)	(17,592,953)	(15,106,450)	(16,306,575)
11	General & Intangible	(14,094,652)	(8,738,364)	(39,672,578)	-	-
12	Total Retirements	\$ (37,921,680)	\$ (72,868,702)	\$ (92,688,756)	\$ (50,620,633)	\$ (90,636,024)

Parts (b, c, d) Four Years Prior to Test Year Period

New Mexico Jurisdiction

	Functional Classification	12/31/2019 ⁽¹⁾	12/31/2020 ⁽¹⁾	12/31/2021 ⁽²⁾	12/31/2022 ⁽²⁾	12/31/2023 ⁽³⁾
13	Property Additions					
14	Production	\$ 229,040,792	\$ 271,622,960	\$ 20,570,327	\$ 27,933,558	\$ 27,812,903
15	Transmission	93,386,321	134,640,900	73,139,170	85,446,336	83,261,088
16	Distribution	29,104,791	41,115,104	42,841,718	45,858,984	59,799,559
17	General & Intangible	21,211,856	23,527,107	26,019,622	40,337,258	55,080,654
18	Total Additions	\$ 372,743,761	\$ 470,906,072	\$ 162,570,837	\$ 199,576,137	\$ 225,954,203
19	Property Retirements					
20	Production	\$ (1,005,647)	\$ (9,016,857)	\$ (7,497,441)	\$ (6,540,064)	\$ (21,779,750)
21	Transmission	(4,508,780)	(3,483,004)	(4,728,633)	(5,717,404)	(7,022,444)
22	Distribution	(1,523,940)	(5,958,148)	(4,751,948)	(4,080,330)	(4,855,161)
23	General & Intangible	(4,242,166)	(2,630,047)	(12,848,181)	-	-
24	Total Retirements	\$ (11,280,533)	\$ (21,088,055)	\$ (29,826,203)	\$ (16,337,798)	\$ (33,657,355)

Notes:

Schedule does not include activity related to Asset Retirement Cost accounts.

Amounts may appear to not total or tie due to rounding.

⁽¹⁾ Plant in Service and Construction Work in Progress allocated to New Mexico jurisdiction based on factors from Case No. 20-00238-UT.

⁽²⁾ Plant in Service and Construction Work in Progress allocated to New Mexico jurisdiction based on this current filing's Base Period.

⁽³⁾ Plant in Service and Construction Work in Progress allocated to New Mexico jurisdiction based on factors from this current filing's Test Year.

Southwestern Public Service Company

Property Retirements and Property Investment Information

Parts (a, c, e) Twelve Months of the Test Year Period
Total Company

Line No.	Functional Classification	7/31/2023	8/31/2023	9/30/2023	10/31/2023	11/30/2023	12/31/2023
1	Property Additions						
2	Production	\$ 15,230,445	\$ 4,758,138	\$ 2,486,259	\$ 8,810,005	\$ 14,412,576	\$ 7,136,013
3	Transmission	627,400	(1,206,050)	4,387,018	1,103,386	10,653,314	68,685,941
4	Distribution	10,461,596	10,920,152	10,313,001	11,433,545	28,759,068	54,115,469
5	General & Intangible	7,222,178	6,191,206	11,711,639	15,059,337	8,927,529	45,939,366
6	Total Additions	\$ 33,541,619	\$ 20,663,446	\$ 28,897,917	\$ 36,406,273	\$ 62,752,487	\$ 175,876,790
7	Property Retirements						
8	Production	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (56,206,718)
9	Transmission	(1,397,294)	(1,397,295)	(1,397,294)	(1,397,295)	(1,397,294)	(2,752,490)
10	Distribution	(1,358,881)	(1,358,881)	(1,358,881)	(1,358,881)	(1,358,881)	(1,358,881)
11	General & Intangible	-	-	-	-	-	-
12	Total Retirements	\$ (2,756,176)	\$ (2,756,176)	\$ (2,756,176)	\$ (2,756,176)	\$ (2,756,176)	\$ (60,318,090)

Parts (b, c, e) Twelve Months of the Test Year Period
New Mexico Jurisdiction

	Functional Classification	7/31/2023 ⁽³⁾	8/31/2023 ⁽³⁾	9/30/2023 ⁽³⁾	10/31/2023 ⁽³⁾	11/30/2023 ⁽³⁾	12/31/2023 ⁽³⁾
13	Property Additions						
14	Production	\$ 5,901,702	\$ 1,843,749	\$ 963,410	\$ 3,413,822	\$ 5,584,783	\$ 2,765,160
15	Transmission	243,114	(467,337)	1,699,942	427,555	4,128,092	26,615,371
16	Distribution	3,114,862	3,251,394	3,070,619	3,404,253	8,562,798	16,112,477
17	General & Intangible	2,529,530	2,168,438	4,101,941	5,274,454	3,126,821	16,090,024
18	Total Additions	\$ 11,789,208	\$ 6,796,243	\$ 9,835,911	\$ 12,520,084	\$ 21,402,493	\$ 61,583,032
19	Property Retirements						
20	Production	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (21,779,750)
21	Transmission	(541,443)	(541,443)	(541,443)	(541,443)	(541,443)	(1,066,573)
22	Distribution	(404,597)	(404,597)	(404,597)	(404,597)	(404,597)	(404,597)
23	General & Intangible	-	-	-	-	-	-
24	Total Retirements	\$ (946,040)	\$ (946,040)	\$ (946,040)	\$ (946,040)	\$ (946,040)	\$ (23,250,920)

Notes:

Schedule does not include activity related to Asset Retirement Cost accounts.

Amounts may appear to not total or tie due to rounding.

⁽³⁾ Plant in Service and Construction Work in Progress allocated to New Mexico jurisdiction based on factors from this current filing's Test Year.

Southwestern Public Service Company

Property Retirements and Property Investment Information

Parts (a, c, e) Twelve Months of the Test Year Period
Total Company

Line No.	Functional Classification	1/31/2024	2/28/2024	3/31/2024	4/30/2024	5/31/2024	6/30/2024
1	Property Additions						
2	Production	\$ 1,360,022	\$ 389,529	\$ 2,406,712	\$ 981,901	\$ 14,939,938	\$ 6,191,532
3	Transmission	466,777	3,192,946	6,507,636	5,194,885	62,954,801	6,235,870
4	Distribution	12,286,819	11,818,206	12,483,634	14,509,396	15,120,348	16,958,595
5	General & Intangible	5,006,319	4,864,985	15,786,796	4,960,525	11,508,772	9,405,548
6	Total Additions	\$ 19,119,937	\$ 20,265,666	\$ 37,184,778	\$ 25,646,707	\$ 104,523,859	\$ 38,791,544
7	Property Retirements						
8	Production	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
9	Transmission	(1,462,245)	(1,462,245)	(1,462,245)	(1,462,245)	(1,462,245)	(1,462,245)
10	Distribution	(1,446,706)	(1,446,706)	(1,446,706)	(1,446,706)	(1,446,706)	(1,446,706)
11	General & Intangible	-	-	-	-	-	-
12	Total Retirements	\$ (2,908,951)	\$ (2,908,951)	\$ (2,908,951)	\$ (2,908,951)	\$ (2,908,951)	\$ (2,908,951)

Parts (b, c, e) Twelve Months of the Test Year Period
New Mexico Jurisdiction

	Functional Classification	1/31/2024 ⁽³⁾	2/28/2024 ⁽³⁾	3/31/2024 ⁽³⁾	4/30/2024 ⁽³⁾	5/31/2024 ⁽³⁾	6/30/2024 ⁽³⁾
13	Property Additions						
14	Production	\$ 527,000	\$ 150,940	\$ 932,586	\$ 380,480	\$ 5,789,132	\$ 2,399,180
15	Transmission	180,873	1,237,246	2,521,668	2,012,985	24,394,590	2,416,360
16	Distribution	3,658,309	3,518,783	3,716,909	4,320,064	4,501,971	5,049,295
17	General & Intangible	1,753,437	1,703,936	5,529,243	1,737,398	4,030,887	3,294,244
18	Total Additions	\$ 6,119,619	\$ 6,610,905	\$ 12,700,406	\$ 8,450,928	\$ 38,716,580	\$ 13,159,079
19	Property Retirements						
20	Production	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
21	Transmission	(566,611)	(566,611)	(566,611)	(566,611)	(566,611)	(566,611)
22	Distribution	(430,746)	(430,746)	(430,746)	(430,746)	(430,746)	(430,746)
23	General & Intangible	-	-	-	-	-	-
24	Total Retirements	\$ (997,357)	\$ (997,357)	\$ (997,357)	\$ (997,357)	\$ (997,357)	\$ (997,357)

Notes:

Schedule does not include activity related to Asset Retirement Cost accounts.

Amounts may appear to not total or tie due to rounding.

⁽³⁾ Plant in Service and Construction Work in Progress allocated to New Mexico jurisdiction based on factors from this current filing's Test Year.

Southwestern Public Service Company

Property Retirements and Property Investment Information

Parts (a, c, f) Five Years Beyond Base Period
Total Company

Line No.	Functional Classification	12/31/2022	12/31/2023	12/31/2024	12/31/2025	12/31/2026	12/31/2027
1	Property Additions						
2	Production	\$ 80,933,313	\$ 71,776,396	\$ 115,328,950	\$ 54,306,233	\$ 25,717,787	\$ 39,947,196
3	Transmission	247,568,000	214,870,806	237,704,353	223,520,560	133,267,032	844,170,599
4	Distribution	169,781,961	200,843,181	208,796,107	167,512,967	181,489,471	198,814,218
5	General & Intangible	124,553,270	157,263,308	176,314,948	108,131,502	103,409,316	122,452,654
6	Total Additions	<u>\$ 622,836,545</u>	<u>\$ 644,753,692</u>	<u>\$ 738,144,358</u>	<u>\$ 553,471,262</u>	<u>\$ 443,883,606</u>	<u>\$ 1,205,384,666</u>
7	Property Retirements						
8	Production	\$ (18,948,858)	\$ (56,206,718)	\$ (74,687,300)	\$ (70,488,181)	\$ -	\$ (101,711,327)
9	Transmission	(16,565,325)	(18,122,730)	(17,546,939)	(19,683,706)	(19,599,892)	(21,899,088)
10	Distribution	(15,106,450)	(16,306,575)	(17,360,470)	(18,455,209)	(19,503,246)	(20,657,836)
11	General & Intangible	-	-	-	-	-	-
12	Total Retirements	<u>\$ (50,620,633)</u>	<u>\$ (90,636,024)</u>	<u>\$ (109,594,709)</u>	<u>\$ (108,627,095)</u>	<u>\$ (39,103,137)</u>	<u>\$ (144,268,251)</u>

Parts (b, c, f) Five Years Beyond Base Period
New Mexico Jurisdiction

	Functional Classification	12/31/2022 ⁽³⁾	12/31/2023 ⁽³⁾	12/31/2024 ⁽³⁾	12/31/2025 ⁽³⁾	12/31/2026 ⁽³⁾	12/31/2027 ⁽³⁾
13	Property Additions						
14	Production	\$ 31,361,150	\$ 27,812,903	\$ 44,689,244	\$ 21,043,324	\$ 9,965,481	\$ 15,479,288
15	Transmission	95,931,045	83,261,088	92,108,943	86,612,813	51,640,138	327,110,804
16	Distribution	50,551,312	59,799,559	62,167,483	49,875,736	54,037,136	59,195,450
17	General & Intangible	43,624,134	55,080,654	61,753,392	37,872,495	36,218,574	42,888,404
18	Total Additions	<u>\$ 221,467,642</u>	<u>\$ 225,954,203</u>	<u>\$ 260,719,062</u>	<u>\$ 195,404,369</u>	<u>\$ 151,861,329</u>	<u>\$ 444,673,946</u>
19	Property Retirements						
20	Production	\$ (7,342,563)	\$ (21,779,750)	\$ (28,940,860)	\$ (27,313,727)	\$ -	\$ (39,412,500)
21	Transmission	(6,418,959)	(7,022,444)	(6,799,328)	(7,627,312)	(7,594,835)	(8,485,759)
22	Distribution	(4,497,833)	(4,855,161)	(5,168,951)	(5,494,901)	(5,806,946)	(6,150,717)
23	General & Intangible	-	-	-	-	-	-
24	Total Retirements	<u>\$ (18,259,356)</u>	<u>\$ (33,657,355)</u>	<u>\$ (40,909,139)</u>	<u>\$ (40,435,940)</u>	<u>\$ (13,401,781)</u>	<u>\$ (54,048,976)</u>

Notes:

Schedule does not include activity related to Asset Retirement Cost accounts.

Amounts may appear to not total or tie due to rounding.

⁽³⁾ Plant in Service and Construction Work in Progress allocated to New Mexico jurisdiction based on factors from this current filing's Test Year.

Southwestern Public Service Company

Operation and Maintenance Expense Information

(a, c, d) Total System Excluding Fuel and Purchased Power
Four Years Prior to Test Year Period

Line No.	Classification	2019	2020	2021	2022	2023
1	Production	\$ 132,746,480	\$ 125,578,257	\$ 135,135,094	\$ 128,751,425	\$ 132,773,675
2	Transmission ⁽¹⁾	200,383,196	206,854,791	204,331,715	185,173,050	162,227,232
3	Regional Markets	8,492,676	8,782,693	8,782,836	8,333,108	11,045,687
4	Distribution	35,668,484	31,751,911	29,974,749	36,165,829	38,872,036
5	Customer Operations	38,659,569	35,860,646	41,688,293	48,018,949	47,350,479
6	Administrative & General	112,672,285	111,637,042	106,891,285	112,212,701	118,363,837
7	Total	<u>\$ 528,622,690</u>	<u>\$ 520,465,339</u>	<u>\$ 526,803,972</u>	<u>\$ 518,655,063</u>	<u>\$ 510,632,947</u>

Notes:

Amounts may appear to not total or tie due to rounding.

⁽¹⁾ SPS does not record Transmission O&M expense by voltage level.

Southwestern Public Service Company

Operation and Maintenance Expense Information

(b, c, d) New Mexico Jurisdiction Excluding Fuel and Purchased Power
Four Years Prior to Test Year Period

Line No.	Classification	2019 ⁽²⁾	2020 ⁽²⁾	2021 ⁽³⁾	2022 ⁽³⁾	2023 ⁽⁴⁾
1	Production	\$ 42,383,032	\$ 40,094,376	\$ 47,111,578	\$ 44,886,066	\$ 52,021,710
2	Transmission ⁽¹⁾	47,359,936	48,889,477	56,650,989	51,339,248	47,658,899
3	Regional Markets	2,327,000	2,406,465	3,142,415	2,981,507	4,331,873
4	Distribution	13,322,533	11,859,654	10,197,796	12,304,081	13,212,965
5	Customer Operations	11,683,061	10,837,217	12,767,616	14,706,467	14,582,183
6	Administrative & General	37,023,946	36,683,767	36,373,341	38,184,131	45,537,740
7	Total	\$ 154,099,509	\$ 150,770,956	\$ 166,243,735	\$ 164,401,500	\$ 177,345,371

Notes:

Amounts may appear to not total or tie due to rounding.

⁽¹⁾ SPS does not record Transmission O&M expense by voltage level.

⁽²⁾ 2019 & 2020 O&M expenses allocated to New Mexico jurisdiction based on factors from Case No. 20-00238-UT.

⁽³⁾ 2021 & 2022 O&M expenses allocated to New Mexico jurisdiction based on factors from this current filing's Base Period.

⁽⁴⁾ 2023 O&M expenses allocated to New Mexico jurisdiction based on factors from this current filing's Test Year.

Southwestern Public Service Company

Operation and Maintenance Expense Information

(a, c, e) Total System Excluding Fuel and Purchased Power

Line No.	Classification	July 2023	August 2023	September 2023	October 2023	November 2023	December 2023	January 2024	February 2024	March 2024	April 2024	May 2024	June 2024
1	Production	\$ 12,059,439	\$ 12,446,677	\$ 11,006,299	\$ 13,141,869	\$ 12,998,031	\$ 11,441,400	\$ 11,597,263	\$ 11,703,050	\$ 14,008,763	\$ 8,981,585	\$ 11,845,665	\$ 12,736,172
2	Transmission ⁽¹⁾	15,804,717	15,886,658	15,176,333	15,623,186	15,578,902	15,833,432	15,919,128	15,511,014	15,798,983	15,971,495	18,080,082	12,880,836
3	Regional Markets	783,189	831,237	784,070	623,168	762,139	709,939	825,931	729,940	763,018	568,322	846,952	1,051,597
4	Distribution	2,673,855	2,862,401	2,403,782	2,799,433	3,216,820	2,003,116	2,804,020	2,689,837	2,765,744	2,830,030	3,785,855	2,569,352
5	Customer Operations	2,679,341	2,152,774	2,079,664	2,851,038	2,734,747	2,680,702	2,376,166	2,337,324	2,720,096	2,546,609	2,432,092	2,503,607
6	Administrative & General	10,784,342	9,655,781	7,983,608	10,008,781	9,546,652	11,085,734	9,726,344	9,855,481	10,617,658	10,319,951	9,034,645	9,416,490
7	Total	\$ 44,784,884	\$ 43,835,529	\$ 39,433,756	\$ 45,047,474	\$ 44,837,290	\$ 43,754,323	\$ 43,248,852	\$ 42,826,645	\$ 46,674,262	\$ 41,217,991	\$ 46,025,291	\$ 41,158,054

Notes:

Amounts may appear to not total or tie due to rounding.

⁽¹⁾ SPS does not record Transmission O&M expense by voltage level.

Southwestern Public Service Company

Operation and Maintenance Expense Information

(b, c, e) New Mexico Jurisdiction Excluding Fuel and Purchased Power

Line No.	Classification	July 2023	August 2023	September 2023	October 2023	November 2023	December 2023	January 2024	February 2024	March 2024	April 2024	May 2024	June 2024
1	Production	\$ 4,724,978	\$ 4,876,700	\$ 4,312,349	\$ 5,149,082	\$ 5,092,725	\$ 4,482,826	\$ 4,543,894	\$ 4,585,342	\$ 5,488,737	\$ 3,519,051	\$ 4,641,219	\$ 4,990,127
2	Transmission ⁽¹⁾	4,643,088	4,667,161	4,458,483	4,589,759	4,576,749	4,651,524	4,676,700	4,556,805	4,641,404	4,692,084	5,311,542	3,784,115
3	Regional Markets	307,149	325,993	307,495	244,393	298,894	278,422	323,912	286,266	299,239	222,883	332,156	412,413
4	Distribution	908,868	972,957	817,068	951,553	1,093,427	680,878	953,112	914,300	940,102	961,954	1,286,847	873,346
5	Customer Operations	825,137	662,974	640,459	878,013	842,200	825,556	731,771	719,809	837,688	784,261	748,994	771,018
6	Administrative & General	4,149,025	3,714,838	3,071,508	3,850,646	3,672,853	4,264,979	3,741,985	3,791,668	4,084,898	3,970,362	3,475,870	3,622,776
7	Total	\$ 15,558,246	\$ 15,220,623	\$ 13,607,362	\$ 15,663,446	\$ 15,576,847	\$ 15,184,185	\$ 14,971,374	\$ 14,854,189	\$ 16,292,068	\$ 14,150,595	\$ 15,796,628	\$ 14,453,794

Notes:

Amounts may appear to not total or tie due to rounding.

Test Year O&M expenses allocated to New Mexico jurisdiction based on factors from this current filing's Test Year.

⁽¹⁾ SPS does not record Transmission O&M expense by voltage level.

Southwestern Public Service Company

Operation and Maintenance Expense Information

(a, c, f) Total System Excluding Fuel and Purchased Power
Five Years Beyond the Base Period

Line No.	Classification	2022 ⁽²⁾	2023 ⁽²⁾	2024 ⁽²⁾	2025 ⁽²⁾	2026 ⁽²⁾	2027 ⁽²⁾
1	Production	\$ 128,751,425	\$ 132,773,675	\$ 139,956,391	\$ 124,304,620	\$ 116,191,722	\$ 115,645,357
2	Transmission ⁽¹⁾	185,173,050	162,227,232	158,696,956	163,654,387	167,284,607	168,330,911
3	Regional Markets	8,333,108	11,045,687	10,599,722	9,675,332	9,276,767	9,296,839
4	Distribution	36,165,829	38,872,036	41,427,223	42,254,392	42,201,106	43,076,271
5	Customer Operations	48,018,949	47,350,479	51,747,943	52,372,812	53,003,855	52,958,462
6	Administrative & General	112,212,701	118,363,837	120,448,574	127,276,812	133,957,574	138,482,975
7	Total	\$ 518,655,063	\$ 510,632,947	\$ 522,876,809	\$ 519,538,355	\$ 521,915,631	\$ 527,790,815

Notes:

Amounts may appear to not total or tie due to rounding.

⁽¹⁾ SPS does not record Transmission O&M expense by voltage level.

⁽²⁾ 2022-2027 represents the Budgeted amounts from SPS's 2022 budget cycle.

Southwestern Public Service Company

Operation and Maintenance Expense Information

(b, c, f) New Mexico Jurisdiction Excluding Fuel and Purchased Power
Five Years Beyond the Base Period

Line No.	Classification	2022 ⁽³⁾	2023 ⁽⁴⁾	2024 ⁽⁴⁾	2025 ⁽⁴⁾	2026 ⁽⁴⁾	2027 ⁽⁴⁾
1	Production	\$ 44,886,066	\$ 52,021,710	\$ 54,835,951	\$ 48,703,472	\$ 45,524,778	\$ 45,310,708
2	Transmission ⁽¹⁾	51,339,248	47,658,899	46,621,779	48,078,166	49,144,648	49,452,029
3	Regional Markets	2,981,507	4,331,873	4,156,975	3,794,450	3,638,142	3,646,014
4	Distribution	12,304,081	13,212,965	14,081,497	14,362,659	14,344,547	14,642,023
5	Customer Operations	14,706,467	14,582,183	15,936,438	16,128,875	16,323,212	16,309,233
6	Administrative & General	38,184,131	45,537,740	46,339,794	48,966,801	51,537,069	53,278,112
7	Total	\$ 164,401,500	\$ 177,345,371	\$ 181,972,436	\$ 180,034,423	\$ 180,512,396	\$ 182,638,120

Notes:

Amounts may appear to not total or tie due to rounding.

⁽¹⁾ SPS does not record Transmission O&M expense by voltage level.

⁽²⁾ 2022-2027 represents the Budgeted amounts from SPS's 2022 budget cycle.

⁽³⁾ 2022 O&M expense allocated to New Mexico jurisdiction based on factors from this current filing's Base Period.

⁽⁴⁾ 2023-2027 O&M expense allocated to New Mexico jurisdiction based on factors from this current filing's Test Year.

Southwestern Public Service Company

Customer Information

(a) For New Mexico Jurisdiction and Service Area

(c) (i) Four Years Prior to Test Year Period

Line No.	Customer Class	Rate No.	Actuals				*		Forecast			
			Custs 12-Months Ended	Avg Custs 12-Months Ended	Custs 12-Months Ended	Avg Custs 12-Months Ended	Custs 12-Months Ended	Avg Custs 12-Months Ended	Custs 12-Months Ended	Avg Custs 12-Months Ended	Custs 12-Months Ended	Avg Custs 12-Months Ended
			Dec 2020	Dec 2020	Dec 2021	Dec 2021	Dec 2022	Dec 2022	Dec 2023	Dec 2023	Dec 2024	Dec 2024
1	Residential Service (RL)	1	61,970	61,739	63,026	62,532	63,847	63,436	64,955	64,482	66,062	65,581
2	Residential Space Heating Service (RH)	39	29,684	29,737	29,767	29,736	29,719	29,728	29,719	29,719	29,719	29,719
3	Small General Service (SGS)	6	11,902	11,883	11,975	11,928	12,088	12,019	12,249	12,176	12,406	12,334
4	Secondary General Service (SG)	40	4,130	4,047	4,259	4,203	4,334	4,303	4,391	4,365	4,448	4,422
5	Irrigation Service (IR)	3	1,001	998	1,007	1,007	1,017	1,010	1,030	1,024	1,044	1,038
6	Primary General Service	13	4,931	4,904	5,040	4,977	5,110	5,075	5,182	5,150	5,255	5,222
7	LGS-T 69 kV to 115 kV ⁽¹⁾ (LGST 69)	34	6	5	6	6	5	6	6	6	6	6
8	LGS-T 115 kV + ⁽¹⁾ (LGST 115)	34	30	31	31	31	33	32	35	34	36	36
9	Small Municipal & School Service (SMS)	42	1,178	1,174	1,175	1,177	1,188	1,184	1,192	1,191	1,196	1,195
10	Large Municipal & School Service (LMS)	16	573	1,174	575	575	576	576	579	578	581	580
11	Street Lighting Service (SL)	14	18	18	18	18	18	18	18	18	18	18
12	Area Lighting Service (RAL, CAL)	28	8,977	9,015	8,925	8,938	8,865	8,901	8,815	8,838	8,766	8,789
13	Retail		124,400	124,724	125,804	125,125	126,800	126,286	128,171	127,579	129,537	128,940

*12-Month Ended Dec 2022 Custs Avg = 6 months of actual; 6 months of forecast

⁽¹⁾ LGS-T is Large General Service Transmission

Southwestern Public Service Company

Customer Information

(a) For New Mexico Jurisdiction and Service Area

(c) (ii) Test Year Information and

(iii) Five Years Beyond the Base Period⁽¹⁾

Line No.	Customer Class	Rate No.	BP Custs 12-Months Ended Jun 2022	Avg BP Custs 12-Months Ended Jun 2022	LP Custs 12-Months Ended Jun 2023	Avg LP Custs 12-Months Ended Jun 2023	TY Custs 12-Months Ended Jun 2024	Avg TY Custs 12-Months Ended Jun 2024	Custs 12-Months Ended Dec 2023	Avg Custs 12-Months Ended Dec 2023
1	Residential Service	1	63,348	63,015	64,437	63,938	65,538	65,030	64,955	64,482
2	Residential Space Heating Service	39	29,719	29,748	29,719	29,719	29,719	29,719	29,719	29,719
3	Small General Service	6	4,297	4,260	12,169	12,095	12,328	12,255	12,249	12,176
4	Secondary General Service	40	11,991	11,970	4,363	4,336	4,420	4,394	4,391	4,365
5	Irrigation Service	3	1,008	1,007	1,024	1,018	1,037	1,031	1,030	1,024
6	Primary General Service	13	5,059	5,033	5,146	5,113	5,219	5,186	5,182	5,150
7	LGS-T 69 kV to 115 kV ⁽²⁾	34	6	6	6	5	6	6	6	6
8	LGS-T 115 kV + ⁽²⁾	34	31	31	34	33	36	35	35	34
9	Small Municipal & School Service	42	1,185	1,179	1,190	1,188	1,194	1,193	1,192	1,191
10	Large Municipal & School Service	16	579	576	578	577	580	579	579	578
11	Street Lighting Service	14	18	18	18	18	18	18	18	18
12	Area Lighting Service	28	8,913	8,926	8,845	8,863	8,796	8,814	8,815	8,838
13	Retail		126,154	125,769	127,529	126,903	128,891	128,258	128,171	127,579

⁽¹⁾ In accordance with Rule 17.1.3.8(A), SPS is providing the year-end number of customers and average number of customers for the year by customer class for five years beyond the Base Period, rather than five years beyond the Test Year Period, as requested in 17.9.530.14(P)(5)(c)(iii).

⁽²⁾ LGS-T is Large General Service Transmission

BP = Base Period, LP = Linkage Period, TY = Future Test Year

Southwestern Public Service Company

Customer Information

(a) For New Mexico Jurisdiction and Service Area

(c) (ii) Test Year Information and

(iii) Five Years Beyond the Base Period⁽¹⁾

Line No.	Customer Class	Rate No.	Custs 12-Months Ended	Avg Custs 12-Months Ended	Custs 12-Months Ended	Avg Custs 12-Months Ended	Custs 12-Months Ended	Avg Custs 12-Months Ended	Custs 12-Months Ended	Avg Custs 12-Months Ended
			Dec 2024	Dec 2024	Dec 2025	Dec 2025	Dec 2026	Dec 2026	Dec 2027	Dec 2027
1	Residential Service	1	66,062	65,581	67,160	66,695	68,209	67,756	69,255	68,809
2	Residential Space Heating Service	39	29,719	29,719	29,719	29,719	29,719	29,719	29,719	29,719
3	Small General Service	6	12,406	12,334	12,560	12,491	12,702	12,636	12,843	12,779
4	Secondary General Service	40	4,448	4,422	4,502	4,478	4,553	4,530	4,604	4,581
5	Irrigation Service	3	1,044	1,038	1,056	1,051	1,069	1,063	1,080	1,075
6	Primary General Service	13	5,255	5,222	5,325	5,294	5,391	5,361	5,456	5,426
7	LGS-T 69 kV to 115 kV ⁽²⁾	34	6	6	6	6	7	6	7	7
8	LGS-T 115 kV + ⁽²⁾	34	36	36	38	37	40	39	42	41
9	Small Municipal & School Service	42	1,196	1,195	1,200	1,199	1,204	1,202	1,207	1,206
10	Large Municipal & School Service	16	581	580	583	582	584	583	586	585
11	Street Lighting Service	14	18	18	18	18	18	18	18	18
12	Area Lighting Service	28	8,766	8,789	8,716	8,740	8,668	8,690	8,618	8,641
13	Retail		129,537	128,940	130,883	130,308	132,164	131,604	133,435	132,887

Southwestern Public Service Company

Customer Information

(a) For New Mexico Jurisdiction and Service Area

(b) Annual kWh Sales and the Revenue Produced and the Increase or Decrease in kWh sales due to Changes in Number of Customers by Customer Class for the Twelve Months of the Test Year

Line No.	New Mexico Customer Class	Rate No.	Base Period kWh Sales	Base Period Revenues from Base Rates	Test Year kWh Sales	Change in kWh	Future Test Year Base Rate Revenues	Change in Base Rate Revenues
1	Residential Service	1	686,557,909	\$ 70,702,930	680,449,936	(6,107,973)	\$ 70,133,888	\$ (569,042)
2	Residential Space Heating Service	39	473,706,806	40,256,595	467,108,000	(6,598,806)	\$ 39,515,829	(740,766)
3	Small General Service	6	145,794,385	12,717,373	178,990,541	33,196,156	\$ 15,028,506	2,311,133
4	Secondary General Service	40	709,966,833	52,829,566	840,894,737	130,927,904	\$ 61,419,128	8,589,562
5	Irrigation Service	3	73,999,751	6,050,188	91,674,454	17,674,704	\$ 7,422,045	1,371,858
6	Primary General Service	13	2,638,701,906	130,767,049	2,678,562,350	39,860,444	\$ 132,700,911	1,933,861
7	LGS-T 69 kV to 115 kV ⁽¹⁾	34	139,265,080	4,684,015	144,711,273	5,446,193	\$ 4,864,095	180,080
8	LGS-T 115 kV + ⁽¹⁾	34	3,374,368,909	93,158,316	4,643,799,519	1,269,430,610	\$ 128,049,878	34,891,561
9	Small Municipal & School Service	42	10,538,152	861,359	11,219,549	681,397	\$ 902,379	41,020
10	Large Municipal & School Service	16	120,182,224	8,155,452	120,390,944	208,720	\$ 8,177,077	21,625
11	Street Lighting Service	14	6,611,555	2,253,676	6,484,150	(127,405)	\$ 2,253,676	-
12	Area Lighting Service	28	14,661,076	2,168,867	14,466,964	(194,112)	\$ 2,168,867	-
13	Retail		8,394,354,585	\$ 424,605,387	9,878,752,417	1,484,397,832	\$ 472,636,279	\$ 48,030,892

⁽¹⁾ LGS-T is Large General Service Transmission

Note : Linkage Period kWh Sales and Revenues are not used in the development of rates as proposed in this case. As a result, these values are not applicable.

Southwestern Public Service Company

Customer Information

(a) For New Mexico Jurisdiction and Service Area

(d) Annual kWh Sales for

(i) Four Years Prior to the Test Year, and

(ii) Five Years Beyond the Base Period

Line No.	Customer Class	Rate No.					*	
			kWh Sales 12-Months Ended Dec 2020	kWh Sales 12-Months Ended Dec 2021	kWh Sales 12-Months Ended Jun 2022	LP kWh Sales 12-Months Ended Jun 2023	kWh Sales 12-Months Ended Dec 2022	kWh Sales 12-Months Ended Dec 2023
1	Residential Service	1	709,170,169	665,215,894	687,969,440	680,533,761	714,530,320	674,373,174
2	Residential Space Heating Service	39	502,362,459	466,068,093	470,694,775	480,557,445	495,977,184	469,806,655
3	Small General Service	6	150,453,775	142,725,873	146,505,556	171,456,531	394,413,585	174,704,234
4	Secondary General Service	40	702,574,273	693,010,871	712,869,366	814,018,930	757,499,465	824,108,701
5	Irrigation Power Service	3	81,264,568	72,287,327	75,458,480	90,779,836	86,331,959	92,015,272
6	Primary General Service	13	2,089,111,674	2,437,092,481	2,638,783,842	2,547,145,086	1,792,310,513	2,626,592,388
7	Large General Service - Trans	34	154,997,338	143,313,775	139,265,080	147,708,598	141,921,774	145,592,731
8	Large General Service - Backbone Trans	34	2,721,813,131	3,059,411,622	3,374,368,909	3,995,617,671	3,710,882,581	4,342,859,236
9	Small Municipal and School Service	42	10,866,241	10,447,973	10,695,163	11,276,315	10,798,976	11,235,497
10	Large Municipal and School Service	16	113,394,929	117,087,833	122,107,244	122,285,027	124,283,507	120,579,404
11	Municipal Street Lighting Service	14	11,026,067	7,264,276	6,611,555	6,593,858	6,555,115	6,600,899
12	Area Lighting Service	28	15,041,515	14,757,366	14,660,969	14,481,920	14,386,290	14,415,355
13	Retail		7,262,076,140	7,828,683,384	8,399,990,380	9,082,454,978	8,249,891,269	9,502,883,547

*12-Months Ended Jun 2023 kWh Sales = 1 month of actual; 11 months of forecast

⁽¹⁾ In accordance with Rule 17.1.3.8(A), SPS is providing the year-end kWh sales for the year by customer class for five years beyond the Base Period, rather than five years beyond the Test Year Period, as requested in 17.9.530.14(P)(5)(d)(ii).

Southwestern Public Service Company

Customer Information

(a) For New Mexico Jurisdiction and Service Area

(d) Annual kWh Sales for

(i) Four Years Prior to the Test Year, and

(ii) Five Years Beyond the Base Period

Line No.	Customer Class	Rate No.	Forecast				
			TY kWh Sales 12-Months Ended Jun 2024	kWh Sales 12-Months Ended Dec 2024	kWh Sales 12-Months Ended Dec 2025	kWh Sales 12-Months Ended Dec 2026	kWh Sales 12-Months Ended Dec 2027
1	Residential Service	1	680,391,620	690,021,609	710,109,216	726,000,341	742,382,988
2	Residential Space Heating Service	39	467,166,316	468,520,556	465,377,345	465,005,384	463,595,650
3	Small General Service	6	178,990,541	176,078,963	178,337,766	180,802,580	181,971,313
4	Secondary General Service	40	840,894,737	828,996,609	839,094,296	850,516,933	855,668,170
5	Irrigation Power Service	3	91,674,454	89,557,641	90,257,997	91,045,531	91,170,234
6	Primary General Service	13	2,678,562,350	2,692,229,659	2,721,156,823	2,760,743,878	2,777,587,392
7	Large General Service - Trans	34	144,711,273	147,504,011	149,120,676	151,473,058	152,147,931
8	Large General Service - Backbone Trans	34	4,643,799,519	5,069,073,080	5,753,242,267	6,480,600,434	6,873,919,061
9	Small Municipal and School Service	42	11,219,549	11,270,295	11,295,193	11,296,164	11,251,716
10	Large Municipal and School Service	16	120,390,944	120,948,832	121,154,530	121,103,541	120,565,837
11	Municipal Street Lighting Service	14	6,600,899	6,600,899	6,600,899	6,600,899	6,600,899
12	Area Lighting Service	28	14,350,215	14,294,095	14,180,041	14,065,988	13,992,487
13	Retail		9,878,752,417	10,315,096,249	11,059,927,048	11,859,254,733	12,290,853,678

Southwestern Public Service Company

Weather Data

In accordance with 17.1.3.16(A) NMAC, Southwestern Public Service Company (“SPS”) has weather normalized the Base Period data. SPS uses 30-year normal weather in its econometric regression models to forecast Test Year sales. The work paper for Schedule P-6, provided in electronic format, contains 30 years of actual cooling degree day (“CDD”), heating degree day (“HDD”) and precipitation data, as well as the calculation of 30 year daily normal CDDs, HDDs, and precipitation. This information is used in the actual and normal weather calculations that are inputs into the forecast process. Reference the “Forecast Development” section of the Direct Testimony of John M. Goodenough for additional information regarding the weather used in the Test Year forecast.

Southwestern Public Service Company

Power Plant Maintenance Information

(a) Total Maintenance by Operating Unit for Four Years Prior to the Test Year Period by Month (2018-Present)

Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
2018					
1	Cunningham 1	01/01/18	01/04/18	3.29	Pinnacle low gas regulator problems.
2	Cunningham 4	01/01/18	01/24/18	23.15	Unit down for stator and rotor inspection.
908	Harrington 1	01/01/18	01/01/18	0.05	Unit was derated to prevent opacity violations.
909	Harrington 1	01/01/18	01/02/18	0.55	Unit tripped when a controls system Control Processor failed.
910	Maddox 2	01/01/18	01/12/18	11.65	Unit Offline; DC Lube Oil Pump Repairs.
911	Nichols 1	01/01/18	01/09/18	8.67	Unit in outage for Deaerator Drive Steam and Air Preheater maintenance work. Cracking around the drive steam inlet was repaired. The air preheater drive gear was replaced due to excessive wear.
912	Tolk 1	01/01/18	01/01/18	0.03	East Induced Draft Fan inboard motor bearing temperature increasing, fan taken off to prevent bearing damage.
913	Cunningham 3	01/02/18	01/02/18	0.44	Unit was taken offline due to high NOx ¹ .
914	Jones 3	01/03/18	01/03/18	0.06	Maintenance outage to replace actuator on glycol bypass valve.
915	Tolk 1	01/04/18	01/04/18	0.03	East Induced Draft Fan Controller trip.
916	Tolk 2	01/04/18	01/06/18	2.40	Tube leak.
917	Cunningham 1	01/05/18	01/09/18	3.93	Loss of excitation.
918	Cunningham 2	01/05/18	01/05/18	0.12	South Forced Draft fan tripped. Control related issue.
919	Cunningham 2	01/05/18	01/10/18	1.63	Derate related to South Forced Draft fan being unavailable.
920	Tolk 2	01/08/18	01/08/18	0.15	Lost unit on High Drum level tripping turbine then Reverse Power tripped the generator TK32 was open.
921	Nichols 3	01/09/18	01/09/18	0.62	Maintenance Outage taken due to problems with the reverse power relays. One relay was found to have a burnt coil preventing it from operating correctly. The relay trip settings were found to have crept from their setpoints since the last inspection.
922	Harrington 3	01/11/18	01/14/18	3.35	Repairs to a tube leak in the division panels.
923	Jones 1	01/11/18	01/11/18	0.03	Unit tripped on high drum level.
924	Jones 4	01/11/18	01/11/18	0.20	Maintenance outage for inspection.
925	Harrington 2	01/12/18	01/12/18	0.25	Unit missed the scheduled on line time due to trying to prevent opacity exceedances when firing with gas and baghouse out of service.
926	Harrington 2	01/12/18	01/15/18	2.68	Unit was removed from service due to condensate contamination.
927	Maddox 1	01/14/18	01/19/18	5.60	Boiler & Minor System Repairs.
928	Cunningham 3	01/15/18	01/15/18	0.11	Loss of lube oil pressure due to faulty pressure transmitter.
929	Maddox 2	01/16/18	01/16/18	0.05	Failed Start; High Blade Path Temperature.
930	Cunningham 3	01/18/18	01/20/18	1.63	Unit tripped offline due to fire protection system being activated. Temperature > 325.
931	Maddox 2	01/18/18	01/18/18	0.17	Offline: Operations observed Thrust Bearing Oil Leak; Repaired.
932	Harrington 3	01/19/18	01/19/18	0.02	B feeder was dropping feed rates for an unknown reason that needed to be addressed along with another mill out of service to repair a coal leak.
933	Maddox 2	01/19/18	01/19/18	0.22	Offline: Main Generator Fuse Clip replacement.
934	Maddox 2	01/21/18	01/22/18	0.88	Failed Start: Bleed Valve Failed to Close; Replaced.
935	Tolk 2	01/22/18	01/22/18	0.41	Transmission outage.
936	Tolk 2	01/22/18	01/23/18	0.96	Outage continuation after Transmission Planned Outage to check out Condenser Water Box pluggage.
937	Maddox 3	01/23/18	01/23/18	0.13	Exhaust Stack Inspection.
938	Tolk 2	01/24/18	01/25/18	1.22	Condenser waterbox door leak.
939	Nichols 3	01/25/18	01/26/18	1.67	Unit offline to replace hogging jet valve orifice.
940	Harrington 3	01/26/18	01/27/18	1.48	Platen panel tube leak.
941	Plant X 1	01/29/18	01/31/18	2.42	Maintenance Outage for circulating water discharge valve repair.
942	Plant X 2	01/29/18	01/31/18	2.42	Maintenance outage for Plant X1 circulating discharge valve repair.
943	Plant X 3	01/29/18	01/31/18	2.42	Maintenance outage for repair to Plant X1 circulating discharge valves.
944	Quay County 1	01/29/18	01/30/18	1.38	Unit was in Maintenance Outage to replace a bad thermocouple in the latter stages of the turbine section of the combustion turbine. This thermocouple caused the unit to trip in earlier runs.
945	Cunningham 2	01/31/18	02/02/18	2.12	Leaking economizer drain piping.
946	Maddox 2	01/31/18	01/31/18	0.17	Offline; Ignitor found out; Replaced.
947	Quay County 1	02/01/18	02/01/18	0.03	Unit tripped shortly after startup. Possibly due to high blade path temperature differentials between turbine stages.
948	Tolk 2	02/01/18	02/01/18	0.49	Transmission work
949	Tolk 1	02/03/18	02/08/18	5.91	Low Pressure Turbine Overhaul *** Due to the Main Power Transformer explosion and fire on Unit 2 marketing needed this Unit back. Work was stopped and necessary repairs done to bring Unit 1 on line.
950	Plant X 2	02/04/18	02/12/18	8.01	Not enough condensate to start the unit due to economizer tube leak on Plant X4. Waiting to build enough condensate in the storage tanks to proceed with the start up.
951	Jones 3	02/05/18	02/05/18	0.24	Direct Air Injection System maintenance.
952	Maddox 3	02/05/18	09/10/18	217.22	Scheduled/Planned Gas Turbine Overhaul.
953	Plant X 1	02/05/18	02/12/18	6.72	Condensate shortage due to Plant X4 economizer leak.
954	Tolk 2	02/05/18	05/26/18	110.07	Main Power transformer faulted, and a FIRE, fire out at 20:00.
955	Harrington 2	02/06/18	02/06/18	0.32	Unit tripped on high Turbine Thrust reading.
956	Harrington 2	02/06/18	02/07/18	0.38	Unit was removed from service to make adjustments on the Thrust readings.
957	Harrington 2	02/07/18	02/07/18	0.14	Unit tripped due to a Field Circuit Trip on the automatic voltage regulators (AVR).
958	Plant X 4	02/08/18	02/09/18	1.34	Economizer tube leak is compromising condensate makeup capability.
959	Cunningham 2	02/10/18	02/12/18	0.06	Control Valve not opening fully.
960	Harrington 1	02/11/18	02/16/18	2.69	Unit was derated due to freeze damage to the lube oil auxiliary cooling water cooler.
961	Harrington 2	02/11/18	02/11/18	0.02	Unit was derated to prevent opacity exceedances because of failed bags.
962	Cunningham 2	02/12/18	02/16/18	0.84	Worn control valve actuator cam bushings.
963	Nichols 1	02/12/18	02/12/18	0.69	Nichols 1 was in outage to repair an economizer tube leak. A small hole was found on the tube/header weld on the economizer inlet header. The hole was patched with a pad weld.
964	Cunningham 2	02/13/18	02/16/18	2.51	Replace E rod bushings and control valve bushings.
965	Harrington 1	02/16/18	02/16/18	0.01	Unit tripped on loss of flame.
966	Harrington 3	02/16/18	02/26/18	10.36	Unit had to come off line to repair a superheat tube leak.
967	Cunningham 2	02/21/18	02/28/18	6.85	Waterwall tube leak.
968	Jones 4	02/22/18	02/22/18	0.39	Direct Air Injection System issue.

Southwestern Public Service Company

Power Plant Maintenance Information

(a) Total Maintenance by Operating Unit for Four Years Prior to the Test Year Period by Month (2018-Present)

Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
969	Maddox 2	02/26/18	03/02/18	4.13	Substation Group Replaced potential transformer Fuses/Holders.
970	Nichols 1	02/26/18	03/07/18	3.22	The North Forced Draft Fan motor tripped during a routine re-pressurization while the unit was in hot standby status. The motor was found to have a fault in the windings. Visual inspection found burnt coils. Motor will be rewound.
971	Maddox 2	03/02/18	03/07/18	5.11	Potential transformer 13.8 Fuse Failure; Replacement Needed.
972	Harrington 2	03/06/18	03/06/18	0.16	Unit was derated to put a temporary auxiliary cooling water lube oil cooler in service.
973	Nichols 1	03/07/18	03/07/18	0.20	The North Forced Draft Fan motor tripped during a routine re-pressurization while the unit was in hot standby status. The motor was found to have a fault in the windings. Visual inspection found burnt coils. Motor will be rewound.
974	Nichols 1	03/07/18	04/04/18	12.24	The North Forced Draft Fan motor tripped during a routine re-pressurization while the unit was in hot standby status. The motor was found to have a fault in the windings. Visual inspection found burnt coils. Motor will be rewound.
975	Cunningham 2	03/10/18	03/12/18	1.45	Boiler tube leak.
976	Cunningham 2	03/12/18	05/19/18	68.60	Turbine control valves and Boiler crown seal repairs.
977	Maddox 2	03/12/18	03/12/18	0.03	Failed Start; High Blade Path Temperature Spread.
978	Nichols 1	03/12/18	03/12/18	0.25	Outage for updating control logic for the Forced Draft fans. Fans will now be controlled by air flow calculated by differential pressure versus being controlled by discharge pressure.
979	Cunningham 1	03/13/18	03/14/18	1.39	Gas supply regulating valve repair.
980	Jones 2	03/14/18	03/15/18	0.29	West main circulating bearing oil pump failure.
981	Plant X 4	03/17/18	03/18/18	0.14	Boiler chemistry (Silica) requires the unit to be dispatched at less than rated boiler pressure. Unable to meet load demand at the lower pressure.
982	Harrington 1	03/18/18	03/19/18	1.42	Unit was removed from service to make a repair to a tube leak at a weld between the tube and the header.
983	Maddox 2	03/19/18	03/20/18	0.36	Unit Tripped on loss of flame.
984	Cunningham 4	03/21/18	03/21/18	0.10	Overspeed Trip Valve went to failure mode due to loss of control air.
985	Cunningham 4	03/22/18	03/22/18	0.05	Turbine enclosure gas detector calibration issue.
986	Jones 3	03/22/18	03/22/18	0.17	Server Reboot and Gas Calibration.
987	Jones 4	03/22/18	03/22/18	0.33	Server reboot and gas calibration.
988	Maddox 1	03/28/18	03/29/18	0.79	Main Pinnacle Gas Valve Repairs.
989	Maddox 2	03/28/18	03/29/18	0.79	Main Pinnacle Gas Valve Repairs.
990	Quay County 1	03/29/18	03/29/18	0.07	Cause of trip is unknown.
991	Maddox 1	03/31/18	04/01/18	0.90	Reverse Osmosis System failed to start; water conservations.
992	Maddox 2	03/31/18	04/01/18	1.50	Reverse Osmosis System failed to start; water conservations.
993	Harrington 3	04/02/18	04/02/18	0.02	Turbine Boiler Feedpump Tripped on low oil pressure and the startup boiler feedpump tripped on start signal causing the unit to trip.
994	Nichols 1	04/02/18	04/04/18	2.56	The rewound North Forced Draft Fan motor is being reinstalled. Leak on liquid level transmitter on the deaerator is being repaired.
995	Harrington 2	04/03/18	04/03/18	0.75	Repaired an exterior steam leak on a blind flange on # 3 high pressure heater.
996	Cunningham 3	04/07/18	04/07/18	0.02	Field breaker did not close.
997	Cunningham 3	04/07/18	04/07/18	0.06	Stopped per supervisor for slow acceleration.
998	Cunningham 3	04/07/18	04/07/18	0.13	Blade path tripped unit.
999	Cunningham 3	04/07/18	04/07/18	0.06	Blade path tripped unit.
1000	Cunningham 3	04/07/18	04/09/18	2.12	Blade path tripped unit.
1001	Maddox 2	04/07/18	04/07/18	0.32	Online Trip; Oil cooler trouble shooting.
1002	Harrington 1	04/08/18	04/28/18	19.33	Unit was removed from service for a mini outage.
1003	Jones 4	04/08/18	04/28/18	20.46	FM 200 (Fire Suppressant) discharged, awaiting refill to ensure fire protection.
1004	Cunningham 3	04/09/18	04/13/18	3.52	Tripped on Vibration.
1005	Harrington 2	04/09/18	04/09/18	0.01	Unit was derated due to multiple compartments out of service to prevent an opacity event.
1006	Maddox 1	04/09/18	04/09/18	0.06	Press Switch Calibration for Auxiliary Lube Oil Pump.
1007	Plant X 2	04/12/18	04/15/18	2.53	Main Circulator Motor Bearing Abnormal Indication.
1008	Quay County 1	04/12/18	04/16/18	3.77	Unit tripped due to starting diesel overheating and tripping on high coolant temperature brought on by insufficient cooling.
1009	Cunningham 3	04/13/18	04/13/18	0.35	Low air flow.
1010	Cunningham 3	04/13/18	04/13/18	0.13	Blade path spread high.
1011	Cunningham 3	04/13/18	04/16/18	2.74	Low air flow.
1012	Jones 3	04/13/18	04/13/18	0.11	Gas orifice plate maintenance.
1013	Maddox 2	04/13/18	04/14/18	0.71	NOx ¹ Water Injection: Low Flow Alarm.
1014	Plant X 1	04/15/18	04/18/18	2.96	No.1 Turbine Bearing Overheat.
1015	Maddox 1	04/16/18	04/17/18	1.09	High Pressure Feedwater Heater Tube Leaks & Gas Valve Repairs.
1016	Maddox 2	04/16/18	04/16/18	0.37	Main Pinnacle Gas Valve Repairs.
1017	Maddox 2	04/16/18	04/18/18	2.08	AC Lube Oil Pump Fails to Start.
1018	Plant X 2	04/16/18	04/26/18	10.53	Unable to maintain Drum level.
1019	Jones 2	04/17/18	04/17/18	0.07	Adding oil to F bus transformer.
1020	Nichols 2	04/18/18	04/19/18	1.00	Forced outage was taken in preparation for replacing the Deaerator Drain Valve and #1 Feedwater Heater Air Vent Orifice.
1021	Plant X 3	04/18/18	04/18/18	0.05	X929 Motor operated knife switch not seated properly while closed. Knife switch connects generator to the ring buss.
1022	Nichols 2	04/19/18	04/20/18	1.65	Outage taken to replace Deaerator Drain Valve and #1 Feedwater Heater Air Vent Orifice.
1023	Tolk 1	04/22/18	04/22/18	0.24	B phase on generator has lower voltage coming offline to check.
1024	Harrington 2	04/23/18	04/23/18	0.01	Unit was derated due to high baghouse differential Pressure. Compartments removed from service to replace failed bags.
1025	Harrington 3	04/23/18	04/23/18	0.10	Unit was derated due to feedwater and boiler silica increase when the #5 heater extraction tripped close.
1026	Harrington 3	04/23/18	04/26/18	3.14	Unit was removed from service to make repairs to the failed #5 feedwater heater extraction joint at the Low Pressure Turbine.
1027	Maddox 2	04/23/18	04/23/18	0.10	Online Trip: Loss of instrument Air.
1028	Jones 1	04/25/18	04/26/18	0.06	Low water level in lagoon due to disruption of circulating water supply from the city of Lubbock.
1029	Jones 2	04/25/18	04/26/18	0.06	City of Lubbock effluent line air relief valve failed.

Southwestern Public Service Company

Power Plant Maintenance Information

(a) Total Maintenance by Operating Unit for Four Years Prior to the Test Year Period by Month (2018-Present)

Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
1030	Plant X 2	04/26/18	04/30/18	4.07	Unable to produce enough condensate to maintain 3 units, 1 with tube leak and another with economizer leak.
1031	Jones 2	04/27/18	04/28/18	0.31	Limited water supply to the plant from the City of Lubbock.
1032	Harrington 1	04/28/18	04/28/18	0.12	Unit tripped when swapping from the piddle valve to the #3 heater using the main feed pump for start up. The feed pump issue was original scope of work.
1033	Plant X 1	04/28/18	05/08/18	10.52	Unit is running with a tube leak causing us to lose condensate. We decided to take it off tonight to help us keep Plant X3 & X4 online.
1034	Plant X 3	04/28/18	04/30/18	1.98	Reverse Osmosis . make up system failure. Unable to maintain necessary condensate level.
1035	Plant X 4	04/28/18	04/30/18	1.57	Reverse Osmosis system failure. Unable to supply necessary condensate to maintain load above the minimum.
1036	Maddox 2	04/29/18	04/29/18	0.04	Startup Failure;
1037	Maddox 2	04/30/18	05/01/18	1.20	Startup Failure;
1038	Jones 4	05/01/18	05/01/18	0.01	Variable guide vanes failure.
1039	Plant X 4	05/01/18	05/01/18	0.58	Repair a leak on feedwater check valve just before the boiler economizer inlet.
1040	Harrington 1	05/02/18	05/02/18	0.01	Unit was derated when ramping up on load and the opacity started getting high. The derate was to prevent opacity violations.
1041	Jones 1	05/02/18	05/02/18	0.18	Loss of Deaerator level, boiler feed pumps tripped and drum level tripped.
1042	Jones 1	05/03/18	05/03/18	0.08	Derate due to lose of one Boiler Feedpump because of outboard bearing getting hot.
1043	Maddox 2	05/03/18	05/03/18	0.72	Offline: Starting Motor Failure Alarm; Trouble shooting.
1044	Jones 3	05/04/18	05/04/18	0.25	Maintenance to perform a water wash.
1045	Jones 4	05/04/18	05/04/18	0.28	Computer Maintenance - water wash.
1046	Harrington 1	05/05/18	05/05/18	0.00	Unit was derated to prevent opacity violations. Electrostatic Precipitator seems to be fouled.
1047	Plant X 4	05/08/18	05/08/18	0.01	Spray water station for reheat temperature control was not functioning as designed.
1048	Plant X 3	05/11/18	05/18/18	6.55	Suspected condenser tube leak is fouling boiler chemistry.
1049	Jones 2	05/13/18	05/16/18	2.86	Waterwall tube leaks in B & D corners.
1050	Jones 4	05/13/18	05/24/18	10.75	Planned outage borescope inspection.
1051	Nichols 2	05/15/18	05/16/18	1.71	Outage taken to repair an economizer tube leak. The leaky tube was repaired.
1052	Plant X 1	05/17/18	05/17/18	0.68	Plant X3 condenser tube leak, cannot isolate Plant X3 without Plant X1 offline.
1053	Plant X 2	05/17/18	05/17/18	0.66	Plant X3 has a condenser tube, cannot isolate Plant X3 without Plant X2 offline.
1054	Harrington 2	05/18/18	05/23/18	5.56	Summer prep outage.
1055	Cunningham 2	05/19/18	05/19/18	0.01	Post Outage testing.
1056	Cunningham 2	05/19/18	05/19/18	0.06	Post Outage Testing Turbine overspeed trip testing.
1057	Cunningham 2	05/19/18	05/20/18	0.01	Post Outage Testing.
1058	Cunningham 2	05/20/18	05/20/18	0.39	Outage due to scope related logic modification.
1059	Cunningham 2	05/20/18	05/30/18	0.26	Coming out of outage and inspecting equipment.
1060	Plant X 1	05/21/18	05/21/18	0.27	Unable to keep ignitors in during startup.
1061	Plant X 1	05/21/18	05/22/18	1.04	Oil trip test failed.
1062	Plant X 3	05/21/18	05/21/18	0.07	X929 in Sub Station did not seat correctly, Transmission Operations advised to limit load till repaired.
1063	Plant X 3	05/21/18	05/21/18	0.12	Outage required for X929 Separation according to Transmission Work Request 909194.
1064	Maddox 2	05/23/18	05/24/18	0.82	Online Trip; Vibration Hardware Failure; #1 Bring Hardware Failure.
1065	Jones 3	05/24/18	06/01/18	7.90	Maintenance outage for borescope.
1066	Maddox 2	05/24/18	05/26/18	2.53	Ignition Failure; Low Fuel Pressure at Ignition.
1067	Harrington 2	05/25/18	05/25/18	0.12	Unit tripped on a turbine rotor position out of range and a mismatch from the probe readings.
1068	Plant X 2	05/25/18	05/30/18	5.15	Pre-heater motor failed causing the unit's inability to achieve full load. 10 MW de-rate required.
1069	Harrington 2	05/26/18	05/26/18	0.01	Unit was derated to prevent high baghouse differential pressure situation and to prevent the furnace from operating positive.
1070	Tolk 2	05/27/18	05/27/18	0.19	BALANCE SHOT.
1071	Tolk 2	05/27/18	05/27/18	0.10	BALANCE SHOTS.
1072	Harrington 2	05/29/18	05/30/18	0.04	Unit had to be derated due to high baghouse differential pressure.
1073	Harrington 1	05/30/18	05/30/18	0.02	Unit was derated to prevent opacity exceedances.
1074	Jones 1	05/30/18	05/30/18	0.07	Leaking Electro-Hydraulic Control fluid on the right side governor control cylinder.
1075	Plant X 2	05/31/18	06/01/18	0.30	Unit limited to one Circulator Pump, unable to achieve full load.
1076	Nichols 3	06/01/18	06/08/18	6.87	Steam seal regulator bypass valve and actuator, and hogging jet block valve were replaced.
1077	Harrington 2	06/03/18	06/03/18	0.02	Unit was derated due to 2 baghouse compartments being out of service at the same time due to bag failures.
1078	Harrington 3	06/09/18	06/09/18	0.39	Unit was removed from service to make repairs to the high pressure supply motor operated block valve to the main feedpump.
1079	Plant X 2	06/09/18	06/15/18	6.00	Unable to maintain drum level.
1080	Jones 2	06/10/18	06/12/18	0.09	Issues with feedwater level controls - had to take the High Pressure heaters out of service.
1081	Tolk 1	06/12/18	06/12/18	0.32	Generator over excitation relay trip, electricians investigating exciter and voltage regulator.
1082	Maddox 2	06/13/18	06/13/18	0.07	Inlet Guide Vane Failure.
1083	Nichols 2	06/13/18	06/14/18	1.74	Hogging jet block and throttle valves were replaced after throttle valve failed in the closed position.
1084	Nichols 3	06/14/18	06/15/18	1.53	An Electro-Hydraulic Control leak at a fitting on the upper control valve caused the unit to be taken offline to perform repairs.
1085	Harrington 1	06/16/18	06/16/18	0.55	Unit was removed from line to make repairs to a water wall but leak.
1086	Plant X 4	06/19/18	06/19/18	0.02	Unable to purge boiler due to pilots not tripped indication caused by flame rod malfunction.
1087	Plant X 4	06/19/18	06/20/18	1.16	Fire discovered on D corner of boiler.
1088	Harrington 1	06/20/18	06/20/18	0.01	Unit tripped on Reverse Power.
1089	Harrington 1	06/20/18	06/20/18	0.01	Unit tripped on Reverse Power.
1090	Harrington 1	06/20/18	06/20/18	0.01	Unit tripped on reverse power.
1091	Jones 1	06/20/18	06/28/18	0.23	Derate because of chattering Reheat pressure relief valve.
1092	Jones 2	06/20/18	06/20/18	0.01	Issues with feedwater level controls - had to take the High Pressure heaters out of service.
1093	Tolk 1	06/20/18	06/20/18	0.31	Need to remove Turbine Driven Boiler Feedpump from service to replace breakdown bushing on inboard side of pump.
1094	Tolk 1	06/20/18	06/23/18	3.45	Turbine Driven Feed Pump would not isolate online and required coming offline to allow feed pump repairs.
1095	Harrington 3	06/21/18	06/21/18	0.01	Unit had to be derated due to the boiler going positive. The air preheaters are fouled.
1096	Plant X 1	06/21/18	06/21/18	0.21	Loss of boiler igniters, causing boiler trip.

Southwestern Public Service Company

Power Plant Maintenance Information

(a) Total Maintenance by Operating Unit for Four Years Prior to the Test Year Period by Month (2018-Present)

Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
1097	Harrington 2	06/22/18	06/22/18	0.01	Unit was derated due to high baghouse pressure. We had 2 baghouse compartments out of service for bag failures.
1098	Maddox 2	06/25/18	06/28/18	3.49	CHANGE FUSE HOLDERS AND FUSES.
1099	Plant X 1	06/25/18	06/25/18	0.07	Boiler tripped due to high ignitor header pressure.
1100	Plant X 4	06/26/18	06/26/18	0.02	Boiler Feed pump trip.
1101	Plant X 4	06/26/18	06/28/18	1.88	Fire in D corner due to loss of refractory.
1102	Jones 1	06/27/18	06/27/18	0.37	Repair to a hot reheat pipe flange on the pressure relief valve.
1103	Jones 2	06/27/18	06/27/18	0.09	Generator breaker would not operate - could not get online.
1104	Jones 1	06/30/18	07/01/18	0.03	Repair to a hot reheat pipe flange on the pressure relief valve.
1105	Harrington 3	07/01/18	07/01/18	0.14	Unit tripped when changes were being made to the baghouse distributed control system.
1106	Harrington 3	07/01/18	07/02/18	0.12	Unit was derated due to high baghouse excessive differential pressure with 4 baghouse compartments out of service.
1107	Jones 1	07/01/18	07/01/18	0.14	Repair to a hot reheat pipe flange on the pressure relief valve.
1108	Jones 1	07/01/18	07/01/18	0.02	Derated due to high backpressure.
1109	Jones 3	07/01/18	07/01/18	0.01	Startup failure due to blade path temperature spread.
1110	Plant X 1	07/03/18	07/04/18	0.95	Appears that a Fieldbus Module failed causing loss of boiler level indication, tripping boiler.
1111	Harrington 2	07/06/18	07/06/18	0.06	Unit was derated due to high baghouse pressure. Unit had 3 compartments out of service to replace bags.
1112	Cunningham 1	07/07/18	07/07/18	0.05	Deacerator level went high. Operations manually tripped unit for protection.
1113	Harrington 2	07/07/18	07/07/18	0.02	Unit was derated due baghouse pressure high. Unit had compartments out of service for bag replacements.
1114	Cunningham 2	07/08/18	07/08/18	0.11	Burner fuel pressure high.
1115	Cunningham 2	07/08/18	07/11/18	2.97	Turbine did not trip after the generator tripped.
1116	Plant X 4	07/08/18	07/08/18	0.10	Gas Firing valve malfunction caused boiler instability issues.
1117	Harrington 3	07/09/18	07/10/18	0.84	Unit tripped when the south auxiliary cooling water motor went to ground and tripped E buss. D Buss also tripped, so all critical 480V equipment lost power.
1118	Maddox 2	07/10/18	07/10/18	0.06	#5 BEARING FIRE SYSTEM TRIP.
1119	Maddox 2	07/12/18	07/13/18	0.70	Igniter failed and was replaced with a new igniter .
1120	Plant X 4	07/12/18	07/13/18	0.76	Hot spot on D corner, 4th floor.
1121	Harrington 2	07/14/18	07/16/18	0.14	Unit was derated due to baghouse compartments being out of service to replace failed bags.
1122	Maddox 2	07/14/18	07/17/18	2.73	GENERATOR BREAKER TRIP COIL FAILED.
1123	Nichols 2	07/15/18	07/15/18	0.03	North Circulation Pump tripped due to water spraying into the motor. The water came from the auxiliary cooling water line to the circulating water pump bearing.
1124	Plant X 4	07/15/18	07/15/18	0.16	Drum level trip.
1125	Plant X 4	07/15/18	07/16/18	0.15	Drum level trip.
1126	Plant X 4	07/15/18	07/16/18	0.20	High load suspect in boiler swings causing drum level trip.
1127	Cunningham 3	07/16/18	08/01/18	5.97	Air flow and blade path temperature issue causing reduced load.
1128	Harrington 2	07/16/18	07/17/18	0.06	Unit was derated due to high baghouse differential pressure. Baghouse compartments had to be removed from service to replace failed bags.
1129	Plant X 2	07/16/18	07/17/18	0.27	Main gas Regulator restricted flow.
1130	Harrington 1	07/18/18	07/18/18	0.02	Unit was derated due to high exit gas temperatures. This condition causes the opacity to spike and high average readings.
1131	Plant X 2	07/18/18	07/18/18	0.46	Maintenance outage to repair main gas regulator.
1132	Harrington 1	07/20/18	07/20/18	0.02	Unit was derated to prevent opacity exceedances.
1133	Harrington 2	07/21/18	07/22/18	0.10	Unit was derated due to baghouse compartments taken out of service to make repairs to failed bags.
1134	Harrington 1	07/22/18	07/22/18	0.01	Unit was derated to prevent opacity exceedances. The boiler exit temps were above 360 degrees. When this happens the ash becomes less reactive and causes this.
1135	Jones 2	07/23/18	07/23/18	0.02	Turbine drain valves did not work in auto. Derate was taken to make repair.
1136	Cunningham 2	07/24/18	07/26/18	1.46	Inspect Turbine Trip Mechanism.
1137	Cunningham 4	07/26/18	07/26/18	0.02	Lightning tripped unit.
1138	Harrington 2	07/27/18	07/27/18	0.01	Unit was derated due to high baghouse differential Pressure. Baghouse compartment taken out of service due to bag failures.
1139	Nichols 3	07/27/18	07/27/18	0.57	The south circulating water piping feeding into the condenser waterbox began to leak due to severe wall thinning at the waterbox inlet flange.
1140	Cunningham 4	07/28/18	07/28/18	0.01	High Lube oil cause unit to trip.
1141	Cunningham 3	07/30/18	08/01/18	2.17	Repair inlet guide vanes for better air flow.
1142	Harrington 2	07/31/18	07/31/18	0.05	Unit was derated due to high baghouse differential pressure. The high differential pressure was caused by having compartments out of service to replace failed bags.
1143	Cunningham 3	08/01/18	12/31/18	152.04	Compressor damage, requires major overhaul to repair.
1144	Jones 2	08/01/18	08/02/18	0.07	Drains pump repaired.
1145	Jones 3	08/01/18	08/01/18	0.23	Startup failure due to no differential pressure signal on exciter blower.
1146	Harrington 2	08/02/18	08/02/18	0.03	Unit was derated due to high baghouse differential pressure. The high differential pressure is due to having a compartment(s) out of service to replace failed bags.
1147	Cunningham 4	08/03/18	08/03/18	0.23	Inspect Inlet Guide Vanes For Loose Hardware.
1148	Plant X 3	08/04/18	08/24/18	20.33	Maintenance Outage for boiler hotspots.
1149	Tolk 1	08/04/18	08/04/18	0.12	South Auxiliary Cooling Water Pump tripped and would not restart electricians called and checking it out will be limited on load with one Auxiliary Cooling Water pump for cooling.
1150	Tolk 2	08/05/18	08/05/18	0.03	East Induced Draft Fan trip - outlet damper not operating properly, had to manually operate damper. Unit can return to Automatic Generator Control with a 406 net MW limit.
1151	Jones 4	08/06/18	08/07/18	1.25	Repair Gas Separator Leak.
1152	Jones 2	08/08/18	08/11/18	3.68	Gas firing valve failure.
1153	Cunningham 1	08/09/18	08/14/18	5.75	Repair economizer tube leak.
1154	Cunningham 2	08/09/18	08/09/18	0.06	Reduce load to change out electronics on extraction valves controller.
1155	Plant X 2	08/09/18	08/25/18	16.04	Boiler waterwall tube leak.
1156	Jones 1	08/10/18	08/12/18	0.12	Leak in High Pressure Feedwater Heater #1 Seal Weld on Head.
1157	Nichols 2	08/11/18	08/11/18	0.40	Auxiliary Cooling Water to Generator Gas Cooler sprung a leak. Outage was taken to shut Auxiliary Cooling Water supply off to repair leak.
1158	Plant X 1	08/12/18	08/12/18	0.14	Gas Firing valve control failed.
1159	Jones 1	08/13/18	08/19/18	0.48	Leak in High Pressure Feedwater Heater #1 Seal Weld on Head.

Southwestern Public Service Company

Power Plant Maintenance Information

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Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
1160	Harrington 3	08/14/18	08/17/18	3.30	Unit was removed from service to make repairs to a water wall tube leak.
1161	Jones 2	08/14/18	08/14/18	0.00	Bank of fans failed on main power transformer. Needed to derate to lower oil temperature, while repairs were made on bank of fans.
1162	Harrington 2	08/15/18	08/15/18	0.02	Unit was derated due to high baghouse pressure. Compartments out of service to replace failed bags.
1163	Jones 2	08/15/18	08/16/18	1.35	Gas firing valve control issues.
1164	Harrington 1	08/18/18	08/23/18	4.90	Unit was removed from service to make repairs to a water wall tube failure.
1165	Jones 1	08/20/18	08/20/18	0.63	Fix leak on High Pressure Feedwater Heater #1.
1166	Jones 1	08/24/18	08/28/18	1.29	Boiler Feedpump suction strainers limiting flow.
1167	Cunningham 4	08/27/18	08/28/18	1.25	Replace inlet air filters.
1168	Harrington 3	08/27/18	08/27/18	0.24	Generator voltage regulator would not go in to service.
1169	Cunningham 4	08/28/18	08/28/18	0.12	Turning gear motor failed to start.
1170	Harrington 1	08/28/18	08/28/18	0.37	Tripped on low drum level.
1171	Jones 1	08/28/18	08/28/18	0.53	Unit will need to come offline to clean Boiler Feedpump suction strainers
1172	Harrington 2	08/29/18	08/30/18	1.14	Unit was removed from service to replace a failed valve that is used for boiler circulating pump purge.
1173	Harrington 2	08/30/18	08/30/18	0.04	The unit experienced an ash clinker falling that caused a change in furnace airflow. Operations removed the air and fuel for 1 hour to prevent an opacity recordable event.
1174	Jones 2	08/30/18	08/31/18	1.68	Leak in main circulating water piping.
1175	Maddox 2	08/30/18	08/30/18	0.16	Replaced roof exhaustor motor.
1176	Jones 1	09/01/18	09/01/18	0.02	Turbine oil leak.
1177	Harrington 2	09/02/18	09/02/18	0.17	Unit tripped due to low instrument air pressure. An Air dryer to failed with the backup dryer out of service and the back up instrument air compressor did not auto start due to an compressor error.
1178	Jones 1	09/04/18	09/05/18	0.28	Not getting enough effluent from the city. Need to derate to conserve water.
1179	Jones 2	09/05/18	09/05/18	0.18	Low flow of effluent from the city. Plant needed to increase lagoon level.
1180	Tolk 2	09/05/18	09/05/18	0.26	Loss of "A" buss leaving only one primary air fan available.
1181	Nichols 1	09/06/18	09/06/18	0.54	Leak in economizer header inlet tubes was repaired.
1182	Plant X 1	09/06/18	09/07/18	0.65	East Boiler feed pump recirculation pipe failed.
1183	Harrington 2	09/07/18	09/07/18	0.05	Unit was derated to relieve baghouse differential pressure. Increased differential pressure resulted when several baghouse compartments were out of service at the same time due to bag failures.
1184	Harrington 3	09/07/18	11/04/18	57.93	Planned Major Outage.
1185	Harrington 1	09/08/18	09/09/18	0.01	Unit Electrostatic Precipitator was fouled.
1186	Harrington 2	09/08/18	09/08/18	0.36	Electrician walking down and hanging LOTO (lock out/tag out) tags went to the automatic voltage regulator on the wrong unit and cleared the power to Field Breaker 41.
1187	Maddox 1	09/08/18	09/08/18	0.05	Tripped on Startup due to high drum level.
1188	Plant X 4	09/08/18	09/21/18	13.00	Planned outage for superheat and reheat valve repair.
1189	Cunningham 1	09/10/18	09/24/18	13.46	Air flow pressure switch failed.
1190	Maddox 3	09/10/18	09/10/18	0.00	TEST RUN AFTER OVERHAUL.
1191	Maddox 3	09/10/18	09/10/18	0.02	Testing.
1192	Maddox 3	09/10/18	09/11/18	0.48	TEST RUN AFTER OVERHAUL.
1193	Cunningham 4	09/12/18	09/14/18	2.26	Excitation failure, brushless exciter, two diodes need to be replaced.
1194	Harrington 1	09/12/18	09/12/18	0.72	Unit was removed from service to determine why the Electrostatic Precipitator was not performing as designed.
1195	Jones 3	09/12/18	09/12/18	0.13	Compressor water wash.
1196	Jones 4	09/12/18	09/12/18	0.19	Compressor water wash.
1197	Harrington 1	09/13/18	09/15/18	2.28	Cleaning the Electrostatic Precipitator.
1198	Jones 2	09/14/18	09/14/18	0.25	Loss of control power on normal source transformer breaker.
1199	Jones 2	09/14/18	09/14/18	0.08	Normal source transformer differential 86N relay. Normal source transformer blew out oil.
1200	Nichols 1	09/14/18	09/14/18	0.77	Turbine stop valves before seat drain line sprung a leak during startup operations. Compromised pipe and valve were replaced.
1201	Maddox 2	09/15/18	09/15/18	0.19	Lube oil pump coupling broke. Replaced coupling.
1202	Jones 4	09/18/18	09/19/18	1.64	PM's and Gas Calibration.
1203	Cunningham 4	09/20/18	09/20/18	0.05	Oil cooler bypass stuck open.
1204	Jones 3	09/20/18	09/21/18	1.65	Preventive Maintenance & Gas Calibration.
1205	Maddox 1	09/21/18	09/21/18	0.13	Hot Reheat header seal box skin leak.
1206	Maddox 1	09/21/18	12/22/18	91.90	Hot Reheat header seal box skin leak.
1207	Nichols 3	09/21/18	09/21/18	0.02	The unit was derated due to problems with the Forced Draft Fan variable frequency drive cooling system.
1208	Plant X 4	09/21/18	10/07/18	17.00	Substation Outage.
1209	Harrington 2	09/22/18	09/23/18	0.07	FA280 Breaker tripped on over current causing the loss of 1/2 of the Cooling Tower fans.
1210	Tolk 1	09/22/18	11/14/18	53.70	Low Pressure Turbine with/bore, Throttle/Intercept Valves, Boiler, Mercury and Air Toxic Standards Capital Replaced Burner Assembly, Submerged Scraper Conveyor Chain/Trough.
1211	Jones 1	09/23/18	09/23/18	0.15	Not getting enough effluent from the city. Need to derate to conserve water.
1212	Jones 2	09/23/18	09/23/18	0.46	Lagoon level low. Chlorides high on cooling towers.
1213	Cunningham 1	09/24/18	10/05/18	11.72	Planned outage
1214	Jones 1	09/24/18	09/24/18	0.10	Lagoon level low, chlorides high on cooling towers.
1215	Jones 2	09/24/18	09/24/18	0.10	Lagoon level low. Chlorides high on cooling towers.
1216	Jones 3	09/24/18	09/29/18	5.45	Install pig launcher/receiver barrel on Red River gas line.
1217	Jones 4	09/24/18	09/29/18	5.45	Install pig launcher/receiver on Red River gas line.
1218	Jones 1	09/25/18	09/25/18	0.14	Not getting enough effluent from the city. Lagoon level low.
1219	Jones 2	09/25/18	09/25/18	0.11	Low flow of effluent from the city. Plant needed to increase lagoon level.
1220	Nichols 3	09/26/18	09/26/18	0.69	Unit brought offline for water wall tube leak.
1221	Nichols 1	09/28/18	10/04/18	6.14	Unit entered into immediate outage due to loss of Automatic Voltage Regulator and inability to manually control machine voltage.
1222	Plant X 3	09/30/18	09/30/18	0.50	Repair economizer tube leak.
1223	Jones 3	10/01/18	10/01/18	0.28	Install pig launcher/receiver barrel on Red River gas line.
1224	Jones 3	10/02/18	10/02/18	0.15	Install pig launcher/receiver barrel on Red River gas line.
1225	Plant X 3	10/02/18	10/03/18	0.84	Voltage regulator auto control failure.
1226	Cunningham 2	10/03/18	10/13/18	10.12	Water wall tube leak in furnace.
1227	Cunningham 4	10/03/18	10/03/18	0.15	Shut unit to add SF6 gas in L915 breaker.

Southwestern Public Service Company

Power Plant Maintenance Information

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Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
1228	Harrington 1	10/03/18	10/03/18	0.01	Unit tripped on reverse power when the boiler fuel rejected to manual when igniters were taken out of service and the turbine rejected to turbine follow and closed the governor valves.
1229	Jones 1	10/04/18	10/05/18	0.04	Forced Draft fan motor winding temperature alarm due to Engineering and Construction testing.
1230	Jones 3	10/04/18	10/04/18	0.01	Auto unload due to both collector fans failing.
1231	Harrington 1	10/06/18	10/07/18	0.02	Unit was derated to prevent opacity exceedances because we lost the first 2 fields of transformer/rectifier sets.
1232	Harrington 1	10/07/18	10/07/18	0.02	Unit was derated to prevent opacity exceedances.
1233	Harrington 1	10/07/18	10/08/18	0.06	Unit was derated to prevent opacity exceedances due to the Electrostatic Precipitator being fouled.
1234	Harrington 1	10/08/18	10/08/18	0.01	Unit was derated due to the East Induced Draft fan had higher than normal vibration on the inboard Fan and Motor bearings.
1235	Harrington 1	10/08/18	10/09/18	0.12	Unit tripped due to a high level in the Feed pump seal water drain vessel. The valving for the steam supply to the sump pump was not valved in.
1236	Jones 2	10/08/18	10/11/18	3.51	Removal of normal source transformer.
1237	Cunningham 2	10/13/18	11/02/18	19.68	Complete spring 2018 outage work, boiler repairs, balance of plant bearing inspections, turbine control valve bushings.
1238	Harrington 1	10/16/18	10/18/18	0.20	Unit was derated to control opacity.
1239	Harrington 2	10/16/18	10/16/18	0.01	Unit was derated to remove baghouse compartments out of service due to failed bags. This causes a higher than normal baghouse pressure difference.
1240	Jones 4	10/16/18	10/16/18	0.44	Static frequency converter relay would not close.
1241	Harrington 1	10/18/18	10/18/18	0.03	Unit was derated to control Opacity and prevent an opacity exceedance.
1242	Harrington 1	10/18/18	10/19/18	0.15	Unit was derated to perform an unscheduled dead rap.
1243	Harrington 1	10/19/18	10/19/18	0.02	Unit was derated to control opacity emissions. The Electrostatic Precipitator is fouled.
1244	Harrington 2	10/19/18	10/19/18	0.01	Unit was derated because of high baghouse differential pressure resulting from baghouse compartments being out of service for bag replacement.
1245	Jones 1	10/19/18	10/19/18	0.05	Voltage regulator tripping issues.
1246	Tolk 2	10/19/18	10/23/18	4.00	Reheat tube leak.
1247	Harrington 1	10/20/18	10/20/18	0.02	Unit was derated to control opacity. Unit Electrostatic Precipitator is fouled.
1248	Harrington 1	10/23/18	10/23/18	0.04	Unit was derated to control opacity. The Electrostatic Precipitator is fouled.
1249	Harrington 1	10/23/18	10/23/18	0.00	Unit was derated to control opacity. The Electrostatic Precipitator is fouled.
1250	Cunningham 4	10/24/18	12/10/18	46.98	Generator Cooling fan blade Broke.
1251	Harrington 1	10/25/18	10/27/18	2.48	Unit was removed from service to make repairs to 3 low temperature superheated tubes in the penthouse.
1252	Jones 2	10/26/18	10/26/18	0.19	Main gas pressure transmitter faulted, which showed low flow of gas. This caused the main gas firing valve to fully open. This altered Fuel/Air ratios which caused the unit to trip.
1253	Jones 4	10/27/18	10/27/18	0.04	Collector blower failure #1.
1254	Plant X 4	10/27/18	10/27/18	0.04	Boiler Feed Pump Packing Failure, removed pump from service.
1255	Plant X 4	10/27/18	10/27/18	0.03	Limited to 1 Feed Pump due to packing failure.
1256	Plant X 4	10/27/18	10/28/18	0.70	Offline to repair Boiler Feed Pump packing.
1257	Harrington 1	11/01/18	11/02/18	0.04	Unit was derated to prevent opacity exceedances.
1258	Cunningham 2	11/02/18	11/26/18	24.16	Boiler buck stay repairs.
1259	Jones 3	11/04/18	11/09/18	5.73	Borescope Inspection.
1260	Harrington 3	11/05/18	11/05/18	0.03	Unit was removed from service to perform an electrical and mechanical overspeed test.
1261	Jones 1	11/07/18	11/07/18	0.22	Lagoon level low, chlorides high on cooling towers.
1262	Jones 2	11/07/18	11/07/18	0.22	Lagoon level low. Chlorides high on cooling towers.
1263	Harrington 1	11/08/18	11/09/18	0.10	Unit was derated to eliminate high opacity events and prevent an opacity violation.
1264	Harrington 2	11/08/18	11/08/18	0.04	Unit was derated because of high baghouse differential pressure resulting from baghouse compartments being out of service for bag replacement.
1265	Harrington 3	11/08/18	11/09/18	1.10	Unit was removed from service to clean out economizer hoppers from contractor materials left in this section after a major outage.
1266	Harrington 1	11/09/18	11/09/18	0.10	Unit was derated to prevent high opacity events and to prevent an opacity violation.
1267	Jones 1	11/09/18	11/10/18	0.09	High Pressure heaters bypassed for leak on #1 High Pressure heater.
1268	Harrington 1	11/10/18	11/14/18	3.49	Unit was in a Reserved Shutdown when operations discovered a tube leak that would not allow the unit to return to line without repairs.
1269	Jones 1	11/10/18	11/11/18	1.26	Repair #1 High Pressure heater leak.
1270	Maddox 2	11/10/18	11/10/18	0.15	Water Injection line leaking, replaced line.
1271	Tolk 2	11/10/18	11/10/18	0.06	Unit trip on flame failure.
1272	Tolk 2	11/10/18	11/10/18	0.02	Unit trip on flame failure.
1273	Jones 4	11/11/18	11/17/18	6.38	Borescope Inspection.
1274	Plant X 3	11/12/18	11/14/18	2.50	Economizer tube leak repair.
1275	Harrington 2	11/13/18	11/13/18	0.06	Unit was derated because of high baghouse differential pressure resulting from baghouse compartments being out of service for bag replacement.
1276	Tolk 2	11/13/18	11/13/18	0.02	Lost Start up breaker TC200 then lost power to C Buss.
1277	Nichols 1	11/14/18	11/14/18	0.34	Unit was in a maintenance outage to repair the voltage regulator.
1278	Tolk 1	11/14/18	11/14/18	0.14	Low Pressures with/bore, Throttle/Intercept Valves, Boiler, Mercury and Air Toxic Standards Capital Replaced Burner Assembly, Submerged Scraper Conveyor Chain/Trough.
1279	Tolk 1	11/14/18	11/16/18	1.29	Low Pressures with/bore, Throttle/Intercept Valves, Boiler, Mercury and Air Toxic Standards Capital Replaced Burner Assembly, Submerged Scraper Conveyor Chain/Trough.
1280	Harrington 2	11/16/18	11/16/18	0.03	Unit was derated because of high baghouse differential pressure resulting from baghouse compartments being out of service for bag replacement.
1281	Harrington 2	11/17/18	11/18/18	0.15	Unit was derated due to high baghouse differential pressure. The baghouse had 2 compartments out of service to perform a complete bag change in one on the compartments.
1282	Harrington 3	11/18/18	11/19/18	0.90	Unit was removed from service to clean debris out of the economizer hoppers left from the economizer retube during the major outage.
1283	Harrington 1	11/19/18	11/20/18	0.05	Unit was derated to control opacity due to a fouled Electrostatic Precipitator.
1284	Harrington 2	11/19/18	11/19/18	0.04	Unit was derated due to high baghouse differential pressure caused by having 2 compartments out of service to replace failed bags.
1285	Tolk 1	11/19/18	11/19/18	0.02	Hot pump bearings on South main circulating.
1286	Harrington 2	11/20/18	11/20/18	0.02	Unit was derated due to high baghouse differential pressure. This was caused from baghouse compartments being out of service to replace failed bags.

Southwestern Public Service Company

Power Plant Maintenance Information

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Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
1287	Maddox 2	11/22/18	12/06/18	13.99	Maddox 2 interposing relay between Distributed Control System and 52G generator breaker failed.
1288	Tolk 1	11/24/18	11/26/18	1.58	Economizer tube leak.
1289	Plant X 1	11/26/18	12/09/18	14.00	Planned Outage - Replaced Boiler Analyzers, Clean lube oil cooler.
1290	Plant X 2	11/26/18	12/09/18	14.00	Planned Outage - Replaced Drum Level Indicator, Replaced Blowdown Valve, Replaced Water Analyzers.
1291	Plant X 3	11/26/18	12/09/18	14.00	Planned Outage - Replaced Boiler Analyzers, Replaced Superheat/Reheat Spray Block Valve, Inspect furnace, boiler tube repair, hot spot repair.
1292	Cunningham 2	11/27/18	11/27/18	0.06	Post outage testing, set low speed stop, high speed stop, and perform overspeed trip.
1293	Jones 1	11/27/18	11/29/18	2.60	Installation of backflow preventer on potable water supply.
1294	Jones 2	11/27/18	11/29/18	2.55	Installation of backflow preventer on potable water supply.
1295	Maddox 3	11/27/18	11/28/18	1.03	Replacing gas valve.
1296	Jones 4	11/28/18	11/28/18	0.09	Offline due to NOx ¹ emissions.
1297	Cunningham 2	12/01/18	12/02/18	0.95	Distributed Control System computer Control Processor failure. Replaced Control Processor.
1298	Jones 1	12/03/18	12/03/18	0.21	Derate to makeup condensate due to issues with the Reverse Osmosis.
1299	Jones 2	12/03/18	12/03/18	0.14	Derate to catch up on condensate water due to Reverse Osmosis system out of service.
1300	Jones 4	12/03/18	12/03/18	0.25	Offline due to NOx1 emissions.
1301	Nichols 2	12/03/18	12/03/18	0.67	Maintenance Outage to Repair Leaking Boiler Drum Safety.
1302	Harrington 2	12/04/18	12/05/18	0.10	Unit had to be derated due to high baghouse differential pressure. The unit had 2 baghouse compartments out of service to replace failed bags.
1303	Jones 1	12/04/18	12/04/18	0.54	Derate to makeup condensate due to issues with the Reverse Osmosis.
1304	Jones 2	12/04/18	12/04/18	0.21	Derate to catch up on condensate water due to Reverse Osmosis system out of service.
1305	Cunningham 2	12/06/18	12/14/18	7.55	Boiler Tube Rupture that causing unit to come offline.
1306	Tolk 1	12/06/18	12/06/18	0.13	"A" feeder - foreign object on belt caused feeder to trip.
1307	Harrington 1	12/07/18	12/10/18	0.47	Unit was derated to prevent opacity violations. Electrostatic Precipitator is dirty.
1308	Harrington 2	12/09/18	12/09/18	0.02	Unit was derated because of high baghouse differential pressure. The baghouse had 2 compartments out of service to replace failed bags.
1309	Cunningham 4	12/10/18	12/11/18	0.85	Unit tripped Due to Stator Spread High: Bad Resistance Temperature Detector.
1310	Harrington 1	12/10/18	12/10/18	0.09	This derate as for an unscheduled derate to dead rap the Electrostatic Precipitator for Mercury and Air Toxic Standards testing.
1311	Harrington 2	12/10/18	12/10/18	0.02	Unit was derated to reduce baghouse differential pressure. This is caused from baghouse compartment(s) being out of service to replace failed bags.
1312	Nichols 1	12/10/18	12/12/18	1.56	Unit was in a maintenance outage to repair an economizer tube leak.
1313	Tolk 1	12/11/18	12/11/18	0.13	A,B & C mills are all unavailable - overhaul.
1314	Plant X 3	12/12/18	12/12/18	0.04	Due to loss of East Forced Draft fan.
1315	Plant X 3	12/12/18	12/31/18	4.84	Derate to loss of east Forced Draft fan motor.
1316	Harrington 3	12/13/18	12/15/18	2.57	Unit was removed from service to make repairs to a water wall tube leak.
1317	Maddox 2	12/14/18	12/14/18	0.07	Trip due to blade path temperature spread.
1318	Harrington 1	12/15/18	12/16/18	0.17	Unit was derated to prevent opacity exceedances. This is caused from a dirty Electrostatic Precipitator
1319	Harrington 2	12/15/18	12/15/18	0.02	Unit was derated to reduce the baghouse differential pressure. This is caused from having baghouse compartments out of service to replace failed bags.
1320	Cunningham 1	12/16/18	12/23/18	6.47	Repair safety relief valves, replace south drum vent valves, replace north superheat cross over link vent valves.
1321	Harrington 2	12/17/18	12/17/18	0.02	Unit was derated due to high differential pressure on the baghouse. we had 2 compartments out of service to replace failed bags.
1322	Nichols 1	12/17/18	12/21/18	4.35	Unit was in a maintenance outage for substation work on B903. The breaker needed to be worked to allow easier operation.
1323	Plant X 3	12/18/18	12/18/18	0.04	Outside of Management Control - Transmission working on X931.
1324	Tolk 1	12/19/18	12/21/18	1.26	C Mill out of service due to mechanical problems, A & B mill unavailable due to gas restraint - upper mill to be started before reaching 200 MW.
1325	Tolk 2	12/19/18	12/19/18	0.92	Gas is currently unavailable. The main gas RCV (remote control valve) was closed by Xcel Gas Control Center Golden by our request. Qualified team member to arrive later this afternoon to open valve.
1326	Quay County 1	12/20/18	12/20/18	0.13	Outage taken to replace the combustion turbine starting diesel engine radiator.
1327	Maddox 1	12/22/18	12/31/18	1.45	During planned outage inspection (this was part of outage scope) found west condensate pump wore out. Pulled and sent off for pump replacement.
1328	Maddox 2	12/23/18	12/23/18	0.04	Vibration hardware tripped Maddox 2, reset and restarted Maddox 2.
1329	Harrington 1	12/24/18	12/24/18	0.06	Unit was derated due to 2 coal mills/feeders unavailable.
1330	Plant X 3	12/24/18	12/24/18	0.36	Turbine thrust position high trip.
1331	Nichols 3	12/27/18	12/27/18	0.50	Unit in outage to repair boiler safety.
1332	Harrington 1	12/29/18	12/29/18	0.49	Unit was removed from service due to inaccurate emissions data gathering.
2019					
1333	Cunningham 3	01/01/19	05/21/19	140.53	Compressor damage, requires major overhaul to repair
1334	Cunningham 4	01/01/19	01/03/19	2.25	Main firing valve actuator failure. Replaced actuator.
1335	Harrington 1	01/01/19	01/02/19	1.51	Unit was removed from line due to inaccurate emissions data
1336	Maddox 1	01/01/19	03/11/19	10.54	During planned outage inspection (this was part of outage scope) found west condensate pump wore out. Pulled and sent off for pump replacement
1337	Plant X 3	01/01/19	01/09/19	2.13	Derate do to loss of East Forced Draft fan motor
1338	Harrington 2	01/02/19	01/02/19	0.02	Unit was derated due to high baghouse differential pressure. Baghouse had 2 compartments out of service to replace failed bags.
1339	Plant X 3	01/02/19	01/02/19	0.05	Turbine thrust position high trip
1340	Harrington 2	01/03/19	01/03/19	0.03	Unit was derated due to high baghouse differential pressure. Compartment 22 was removed from service to replace failed bags.
1341	Tolk 1	01/03/19	01/08/19	5.10	Boiler tube leak in the Reheat section
1342	Cunningham 2	01/04/19	01/23/19	19.44	Boiler water wall tube leak
1343	Harrington 1	01/04/19	01/04/19	0.43	While in a Reserved Shutdown the plant changed out a Main Boiler Feed Pump recirc check valve and a Deaerator recirculating valve that would prevent a start up.

Southwestern Public Service Company

Power Plant Maintenance Information

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Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
1344	Harrington 3	01/05/19	01/05/19	0.01	Unit was derated due to high baghouse differential pressure. We had compartments 14 and 11 out at the same time to replace failed bags.
1345	Plant X 2	01/05/19	01/10/19	5.17	Boiler tube leak
1346	Jones 2	01/07/19	01/08/19	1.19	Left side governor valve actuator Electro-Hydraulic leak
1347	Harrington 1	01/08/19	01/08/19	0.40	Unit missed its scheduled start up time due to Generator Step-Up Transformer cooling pump issues
1348	Cunningham 4	01/11/19	01/11/19	0.25	Digital Control System Server Cleaning to remove dust buildup
1349	Nichols 3	01/12/19	01/17/19	1.22	Unit derated to 180 net MWs due to boiler feed pump auxiliary oil pump motor failure.
1350	Harrington 1	01/13/19	01/13/19	0.02	Unit was derated to control high opacity readings.
1351	Tolk 1	01/13/19	01/18/19	5.09	Boiler reheat tube inspection (Stress corrosion cracking)
1352	Harrington 3	01/14/19	01/14/19	0.02	Unit was derated due to high baghouse differential pressure. The high DP was caused from 4 Baghouse compartments being out of service to replace failed bags.
1353	Jones 3	01/14/19	01/14/19	0.07	Replace filters in control oil system
1354	Harrington 1	01/15/19	01/15/19	0.01	Unit was derated to control opacity. The high opacity is due to a foul Electrostatic Precipitator
1355	Harrington 1	01/15/19	01/25/19	9.95	Unit was removed from service to inspect the Conservator Tank and assess the Generator Step-Up Transformer oil. A gas was discovered in the oil when gathering an oil sample
1356	Plant X 2	01/15/19	06/07/19	142.52	Generator rotor collector brushes were arcing causing the voltage regulator to act erratically
1357	Harrington 2	01/16/19	01/16/19	0.01	Unit was derated due to high baghouse pressure with compartments out of service.
1358	Jones 1	01/16/19	01/17/19	0.68	Repair 7th floor backpass casing
1359	Harrington 3	01/17/19	01/23/19	5.49	Unit was removed from service to clear refract and other trash from the economizer ash removal hoppers. We also inspected the Cooling Tower circulation system.
1360	Jones 4	01/18/19	01/18/19	0.12	Outage to inspect exhaust section for loose material.
1361	Maddox 3	01/18/19	01/18/19	0.03	Blown fuse on Turning Gear Hand-Off-Automatic switch
1362	Jones 2	01/19/19	04/06/19	77.04	Spring Outage
1363	Cunningham 4	01/21/19	01/21/19	0.18	Inlet Guide Vanes actuator calibration
1364	Maddox 1	01/21/19	01/22/19	0.29	Replacing cooling tower fan motors and gearboxes, capital project
1365	Harrington 2	01/22/19	01/23/19	0.15	Missed Scheduled start up time because the East Induced Draft fan lube oil system pressure could not be maintained due to dirty in line filters. The West Forced Draft Fan had the same issues.
1366	Cunningham 4	01/23/19	01/23/19	0.17	Main Firing Valve failure.
1367	Harrington 2	01/23/19	01/23/19	0.85	Unit was started up with the decision to not have a main circulator being in service and ruptured the Low Pressure Turbine Shell Diaphragm
1368	Harrington 2	01/23/19	01/23/19	0.09	Unit was unable to start up because the Center and South Main circulators would not start.
1369	Cunningham 2	01/25/19	01/25/19	0.01	High burner pressure caused unit to trip.
1370	Cunningham 2	01/25/19	01/25/19	0.00	Operator green flagged switch instead of red flagging switch.
1371	Cunningham 2	01/25/19	01/25/19	0.00	Operator green flagged switch instead of red flagging switch.
1372	Cunningham 2	01/25/19	01/25/19	0.01	South Boiler Feed Pump 4160V Breaker Microswitch failed
1373	Harrington 1	01/25/19	01/25/19	0.02	Turbine tripped on high drum level.
1374	Harrington 1	01/25/19	01/25/19	0.28	Generator breaker tripped from turbine control system and would not reclose. There was a contactor in the breaker panel that had to be replaced.
1375	Cunningham 4	01/28/19	01/28/19	0.17	Replace Hydraulic System oil filters.
1376	Maddox 1	01/28/19	01/28/19	0.03	Reverse Power took unit back off line
1377	Cunningham 2	01/29/19	01/29/19	0.07	Calibrate the South Boiler Feed Pump Oil Pressure Switch, adjusted Boiler Feed Pump oil pump pressure relief setting
1378	Harrington 1	01/29/19	01/29/19	0.06	Unit was derated to control opacity due to a fouled Electrostatic Precipitator
1379	Harrington 1	01/29/19	01/29/19	0.02	Unit was derated to control opacity due to a fouled Electrostatic Precipitator
1380	Harrington 2	01/30/19	01/30/19	0.02	Unit was derated due to high baghouse differential pressure when compartments were removed from service to replace failed bags.
1381	Harrington 2	02/01/19	02/01/19	0.02	Unit was derated due to high baghouse differential pressure when compartments were removed from service to replace failed bags.
1382	Cunningham 1	02/04/19	02/08/19	4.30	Worked on High Pressure drains pump, Air Preheater Oil, Air Preheater motor, condensate pump breaker, and other electric needs.
1383	Cunningham 2	02/04/19	02/04/19	0.10	Broken pipe nipple on fuel gas system.
1384	Jones 3	02/04/19	02/06/19	2.19	Emissions Permit Compliance
1385	Tolk 1	02/05/19	02/06/19	1.32	Reheat tube replacement
1386	Maddox 3	02/06/19	02/06/19	0.06	Attempt to restart for over speed testing. Voltage regulator caused field breaker to trip after generator breaker opens, field breaker won't reset
1387	Maddox 3	02/06/19	02/07/19	1.05	Voltage regulator caused field breaker to trip after generator breaker opens, field breaker won't reset
1388	Cunningham 4	02/07/19	02/07/19	0.45	Replaced Uninterruptible Power Supply power source
1389	Harrington 1	02/08/19	02/08/19	0.03	Unit was derated due to high vibration on the #1 bearing. The high vibrations was caused by the #4 Governor Valve not operating as designed
1390	Harrington 1	02/08/19	02/09/19	0.05	Unit was derated because the #4 Governor Valve was removed from service due to not operating as designed and causing a high vibration on #1 bearing
1391	Maddox 3	02/08/19	02/08/19	0.23	Voltage regulator caused field breaker to trip after generator breaker opens, field breaker won't reset
1392	Harrington 2	02/09/19	02/15/19	6.52	Unit was removed from service for a mini outage.
1393	Jones 4	02/09/19	02/09/19	0.08	Outage to inspect exhaust section for loose material.
1394	Cunningham 2	02/10/19	02/17/19	7.10	Waterwall Tube leak.
1395	Maddox 3	02/13/19	02/14/19	1.36	Replace Speed probe.
1396	Plant X 3	02/13/19	02/16/19	2.82	Generator Viscous seal inspection/repair
1397	Harrington 1	02/15/19	02/16/19	0.03	Unit was derated to prevent Opacity exceedances. Electrostatic Precipitator is fouled
1398	Tolk 2	02/15/19	02/16/19	0.04	Reducing pressure and load due to silicon dioxide contamination in the boiler. Will remain here till we are able to clean up the boiler. Suspected silica contamination from anodamine injection.
1399	Harrington 1	02/16/19	02/16/19	0.05	Unit was derated to prevent opacity exceedances. Electrostatic Precipitator is fouled
1400	Harrington 2	02/17/19	02/17/19	0.16	Unit missed on line schedule due to the automatic voltage regulator not operating as designed.

Southwestern Public Service Company

Power Plant Maintenance Information

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Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
1401	Harrington 2	02/17/19	02/17/19	0.07	Unit was derated to "season" the new bags in the 5 baghouse compartments we rebagged.
1402	Harrington 2	02/17/19	02/18/19	0.42	Unit tripped due to a dirty contact in the automatic voltage regulator not showing the automatic voltage regulator field breaker closed
1403	Harrington 2	02/18/19	02/23/19	0.45	Unit was derated to "season" the new bags put in 6 baghouse compartments.
1404	Harrington 1	02/19/19	02/19/19	0.06	Unit was derated to prevent opacity violations.
1405	Maddox 2	02/19/19	02/19/19	0.05	Bleed Valve issue.
1406	Plant X 3	02/19/19	02/28/19	9.32	Forced outage due to waterwall tube leak
1407	Harrington 3	02/21/19	02/21/19	0.03	Unit was derated because there was only one Main Circulator in service. The South was out of service to change the oil and the North would not start when trying to swap it with the south one.
1408	Harrington 1	02/23/19	05/22/19	88.69	Major Outage on Boiler, Electrostatic Precipitator, Turbine, and Auxiliaries
1409	Harrington 3	02/24/19	02/24/19	0.03	Unit was derated with we tripped P buss Normal Source breaker. We were in the process of using Harrington 3 for Harrington 1 Station Power while the Start-Up transformers were out of service
1410	Plant X 4	02/24/19	02/24/19	0.02	High Pressure Heater Relief lifted at Full load pressures, derate to lower boiler pressure.
1411	Plant X 4	02/25/19	02/27/19	0.27	High Pressure Heater Relief lifted at Full load pressures, derate to lower boiler pressure.
1412	Maddox 1	02/26/19	02/26/19	0.26	Black Plant 5 year and 3 year test, EOP-005
1413	Maddox 2	02/26/19	02/26/19	0.26	Black Plant 5 year and 3 year test, EOP-005
1414	Maddox 2	02/26/19	02/28/19	1.83	After black plant testing M2 was switched back from "black" to normal power. During this time Maddox 2 was not on turning gear but was hot. Maddox 2 needs 48 hours of turning gear time before it should be available again.
1415	Maddox 3	02/26/19	02/26/19	0.26	5 year and 3 year black plant testing, EOP-005
1416	Maddox 1	02/27/19	03/01/19	0.97	Boiler Feed Pump lube oil pump pressure switch caused 4160 breaker to not close
1417	Nichols 1	02/27/19	02/27/19	0.59	Nichols 1 unit was in a maintenance outage to repair a economizer tube leak
1418	Plant X 4	02/27/19	02/27/19	0.80	Loss of Power on the 480 Volt Buss
1419	Tolk 1	02/27/19	02/27/19	0.06	Electro-Hydraulic issues - Turbine Controls- Reheat Stop Valve stuck on test lowered pressure to see if it would open. Ended up with low Electro-Hydraulic pressure taking us offline.
1420	Maddox 2	02/28/19	03/19/19	19.00	Turning Gear Motor failed. Motor needs rewind
1421	Plant X 3	02/28/19	03/06/19	5.94	Substation outage requested for substation crew
1422	Quay Co 1	02/28/19	03/01/19	1.38	Maintenance outage taken to replace starting diesel radiator
1423	Cunningham 2	03/02/19	03/15/19	13.62	Boiler tube leak in furnace section.
1424	Tolk 2	03/07/19	03/12/19	5.72	Mini Outage - Scope of work Grit Blast Finish Superheat, Clean Auxiliary Cooling Water Heat Exchanger, Inspect Reheat
1425	Plant X 3	03/08/19	03/08/19	0.18	Excessive condensate usage, unable to make up water in the condensate tanks.
1426	Plant X 3	03/09/19	03/21/19	11.62	Unable to maintain drum level, waterwall tube leak
1427	Harrington 2	03/11/19	03/11/19	0.04	Unit was derated due to high baghouse pressure. We had compartments 12 and 14 out of service to replace failed bags.
1428	Maddox 1	03/11/19	04/22/19	6.35	During planned outage inspection (this was part of outage scope) found west condensate pump wore out. Pulled and sent off pump for refurbishing.
1429	Jones 3	03/12/19	03/13/19	1.74	Gas Calibrations
1430	Plant X 1	03/13/19	03/13/19	0.15	Start-Up Failure due to synchronization issues
1431	Jones 4	03/14/19	03/15/19	1.96	Gas Calibrations
1432	Tolk 1	03/15/19	03/15/19	0.01	A feeder problem. Relay problem on Controls
1433	Tolk 1	03/16/19	03/16/19	0.06	A mill problems. Relay problem on Controls
1434	Cunningham 2	03/17/19	04/08/19	22.44	Boiler tube leak
1435	Tolk 2	03/18/19	03/18/19	0.25	Heat Exchangers will not isolate - was discovered when maintenance installed the plate backwards
1436	Cunningham 1	03/19/19	03/22/19	0.31	Oil Lubrication problems on South Boiler Feed pump.
1437	Maddox 2	03/19/19	03/19/19	0.05	Bleed valve failed on startup.
1438	Cunningham 1	03/22/19	03/23/19	0.11	South Boiler Feedwater Pump packing blew when starting up.
1439	Plant X 1	03/22/19	03/29/19	6.73	Superheat Tube Leak
1440	Maddox 1	03/23/19	03/23/19	0.09	High back pressure. Near 4.0
1441	Cunningham 1	03/24/19	04/15/19	2.31	South Boiler Feedwater Pump Fluid Drive temperatures high.
1442	Tolk 1	03/27/19	03/30/19	3.19	Repair on reheat tubes
1443	Cunningham 4	03/29/19	04/02/19	4.10	#5 bearing thermocouple shorter causing high temperature indication
1444	Harrington 2	03/30/19	03/30/19	0.34	Unit tripped when the generator automatic voltage regulator failed and opened the field breaker.
1445	Plant X 4	03/30/19	06/07/19	70.00	Generator Inspection/Rewedge, Generator Breaker Replacement, Turbine Valve Inspection/Repairs, Boiler Inspection/Repairs, Boiler Chemical Clean, Digital Control System Upgrade, Balance of Plant Inspections/Repairs, Cooling Tower Inspection/Repairs
1446	Plant X 3	04/03/19	04/16/19	13.13	Unable to maintain drum level
1447	Plant X 1	04/05/19	04/05/19	0.60	Unable to maintain water chemistry
1448	Jones 2	04/06/19	04/11/19	5.86	Spring Outage
1449	Cunningham 2	04/08/19	04/10/19	2.16	Planned outage work
1450	Harrington 2	04/08/19	04/08/19	0.01	Unit was derated due to high baghouse differential pressure. We had a baghouse compartment out of service to replace failed bags.
1451	Plant X 1	04/08/19	04/10/19	2.18	Unable to maintain water chemistry
1452	Tolk 1	04/08/19	04/08/19	0.00	"A" Mill trip on low lube oil pressure
1453	Maddox 3	04/09/19	04/09/19	0.04	Tripped on Blade Path Spread. Removed Blade Path Thermocouple #1.
1454	Cunningham 2	04/10/19	09/17/19	54.15	Operating boiler at reduced pressure due to hydrogen embrittlement
1455	Jones 2	04/11/19	04/12/19	0.04	Spring Outage Testing
1456	Tolk 1	04/11/19	04/12/19	1.15	Repair reheat tubes
1457	Jones 2	04/12/19	04/12/19	0.89	Spring Outage
1458	Jones 2	04/12/19	04/13/19	0.19	Spring Outage Testing
1459	Jones 2	04/13/19	04/13/19	0.75	Spring Outage

Southwestern Public Service Company

Power Plant Maintenance Information

(a) Total Maintenance by Operating Unit for Four Years Prior to the Test Year Period by Month (2018-Present)

Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
1460	Jones 2	04/13/19	04/15/19	0.44	Spring Outage Testing
1461	Jones 2	04/15/19	04/15/19	0.49	Spring Outage
1462	Jones 2	04/15/19	05/20/19	11.36	Lost Inboard Bearing on East Boiler Feed Pump Due to Lack of Oil
1463	Jones 1	04/16/19	04/19/19	3.67	Mini Outage
1464	Maddox 2	04/16/19	04/18/19	2.49	Replace roof exhausters
1465	Cunningham 1	04/18/19	04/22/19	0.47	South Boiler Feedwater Pump Fluid Drive temperature High
1466	Maddox 2	04/19/19	04/19/19	0.05	High Blade Path Temperatures
1467	Plant X 3	04/19/19	05/10/19	21.41	Unable to maintain drum level
1468	Plant X 1	04/20/19	04/29/19	9.98	Capitol Project to replace boiler blowdown sump piping that affects all Plant X Units.
1469	Maddox 1	04/22/19	04/29/19	7.00	Boiler work. Finish 1B Condensate work.
1470	Cunningham 1	04/23/19	07/26/19	9.68	South Boiler Feedwater Pump Fluid Drive issues. Feed pump not maintaining flow correctly.
1471	Harrington 3	04/23/19	05/26/19	17.00	Unit 3 West Induced Fan motor went to ground and motor burned up
1472	Tolk 1	04/23/19	04/23/19	0.38	Inspect/Repair reheat tubes
1473	Jones 1	04/26/19	04/28/19	1.67	Boiler Drain Valves Leaking By
1474	Jones 2	04/26/19	04/29/19	2.96	Hydrogen Leak
1475	Cunningham 1	04/27/19	05/07/19	10.13	Loss of Drum Level. Furnace Water Wall Tube Leak.
1476	Harrington 3	04/27/19	04/27/19	0.44	Unit transitioned from an reserve shutdown to forced outage when a Bearing Oil Pump bearing failed and had to be replaced
1477	Harrington 3	04/27/19	04/27/19	0.01	Unit tripped when swapping station power from Start up source to Normal source on B Buss
1478	Harrington 3	04/27/19	05/01/19	3.88	Unit transitioned from event 20 to this event when the turbine Bearing Oil Pump motor went to ground.
1479	Jones 4	04/28/19	05/04/19	6.93	Borescope/Gas Calibrations
1480	Maddox 1	04/29/19	04/30/19	1.26	Boiler work. Finish 1B Condensate work.
1481	Cunningham 4	04/30/19	04/30/19	0.63	De-winterization of unit.
1482	Tolk 2	04/30/19	04/30/19	0.04	East Primary Air fan motor bearing temp high
1483	Harrington 2	05/01/19	05/01/19	0.05	Unit was derated due to high baghouse differential pressure. Compartment 26 was removed from service to replace failed bags.
1484	Jones 1	05/01/19	05/01/19	0.11	Lack of city effluent flow
1485	Jones 1	05/01/19	05/02/19	0.51	Lack of city fresh due to new potable water line installation
1486	Jones 2	05/01/19	05/02/19	0.51	Lack of city fresh water due to potable water line replacement
1487	Jones 3	05/02/19	05/02/19	0.04	Must reboot T3000. No controls during 1 hr reboot
1488	Maddox 2	05/04/19	05/04/19	0.13	Hardware vibration issues. Unit tripped on high vibration.
1489	Jones 3	05/05/19	05/10/19	5.88	Borescope Inspection
1490	Cunningham 1	05/09/19	05/10/19	0.52	Gas Controller went bad.
1491	Cunningham 2	05/09/19	05/10/19	0.55	Gas Controller went bad
1492	Maddox 2	05/09/19	05/09/19	0.03	#5 bearing vibration. Unit tripped.
1493	Jones 1	05/10/19	05/10/19	0.08	Variable Frequency Drive tripped which caused West Forced Draft fan to trip
1494	Jones 2	05/11/19	05/17/19	6.51	High silica content. Condenser tube leak
1495	Plant X 3	05/11/19	05/11/19	0.07	Primary drum level transmitter not operating properly
1496	Plant X 1	05/12/19	05/17/19	5.10	Unable to maintain water chemistry
1497	Harrington 2	05/13/19	05/15/19	0.44	Unit is derated due to a steam leak on the Main Feed Pump Low Pressure steam supply. We transitioned to the High pressure supply and it can not pull full load
1498	Nichols 3	05/13/19	05/20/19	0.91	North Boiler Feed Pump Motor Burned Up
1499	Cunningham 4	05/14/19	05/14/19	0.08	Replaced flashback thermocouple.
1500	Harrington 2	05/15/19	05/18/19	2.18	Unit was removed from service to make repairs to the horizontal joint on the low pressure supply steam chest on the turbine driven boiler feed pump.
1501	Plant X 3	05/16/19	05/17/19	0.75	Unable to isolate water boxes for Plant X Unit 1,2, and 3. Plant X 3 Outage required outage to isolate Plant X 1
1502	Cunningham 4	05/18/19	05/18/19	0.02	Technician accidentally tripped unit. Thought he was on C3 that was being tested.
1503	Jones 2	05/18/19	05/19/19	0.92	Water Wall tube leak. C Corner
1504	Nichols 3	05/19/19	05/23/19	3.76	Nichols Mini Outage Prior to Summer 2019
1505	Jones 2	05/20/19	05/21/19	1.12	Water Wall tube leak. C Corner
1506	Cunningham 3	05/21/19	05/21/19	0.01	Test Unit.
1507	Cunningham 3	05/21/19	05/23/19	1.73	Compressor damage, requires major overhaul
1508	Cunningham 4	05/21/19	05/21/19	0.12	Low fuel gas pressure
1509	Cunningham 4	05/22/19	05/22/19	0.07	Low SF6 gas pressure in generator breaker
1510	Cunningham 4	05/22/19	05/22/19	0.10	Low fuel gas pressure
1511	Harrington 1	05/22/19	05/22/19	0.08	Unit was removed from service to test and check Potential Transformers on the new Generator breaker installed for the unit.
1512	Jones 2	05/22/19	05/23/19	0.28	Clearances too tight on East Boiler Feed Pump motor inboard bearing. Had to make adjustment
1513	Nichols 1	05/22/19	05/22/19	0.28	Boiler Tripped on loss of igniter pressure
1514	Plant X 1	05/22/19	05/23/19	0.46	Gas firing valve unable to supply fuel pressure for higher load
1515	Cunningham 3	05/23/19	05/23/19	0.00	Test Unit
1516	Cunningham 3	05/23/19	05/24/19	1.14	Compressor damage, requires major overhaul
1517	Harrington 1	05/23/19	05/24/19	0.85	Unit was removed from line to make repairs to Blowdown throttling valve and Electrostatic Precipitator transformer-rectifier sets. These were original scope of work from the major.
1518	Jones 1	05/23/19	05/23/19	0.07	Lack of city effluent flow
1519	Plant X 1	05/23/19	05/23/19	0.21	Outage to repair gas firing valve
1520	Plant X 1	05/23/19	05/24/19	0.13	Unable to maintain 50# gas header pressure
1521	Cunningham 3	05/24/19	05/24/19	0.01	Test Unit

Southwestern Public Service Company

Power Plant Maintenance Information

(a) Total Maintenance by Operating Unit for Four Years Prior to the Test Year Period by Month (2018-Present)

Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
1522	Cunningham 3	05/24/19	05/29/19	4.83	Compressor damage, requires major overhaul
1523	Harrington 2	05/24/19	05/25/19	0.42	Unit 2 derated for only one Cooling Tower circ pump available
1524	Jones 1	05/24/19	05/25/19	0.34	Lack of city effluent flow
1525	Jones 2	05/24/19	05/24/19	0.01	Gas firing valve not maintaining flow at full load
1526	Jones 2	05/24/19	05/25/19	0.34	Lack of effluent flow from the city
1527	Plant X 1	05/24/19	05/24/19	0.53	Unable to maintain 50# gas header pressure
1528	Harrington 1	05/28/19	05/29/19	0.33	Unit was derated due to the reheater spray block valve needing repairs. This equipment was original scope of work from the major outage.
1529	Cunningham 3	05/29/19	05/29/19	0.03	Test Unit.
1530	Cunningham 3	05/29/19	05/30/19	0.80	Compressor damage, requires major overhaul
1531	Jones 1	05/29/19	05/29/19	0.31	Lack of city effluent flow
1532	Jones 2	05/29/19	05/29/19	0.31	Lack of effluent flow from the city
1533	Cunningham 3	05/30/19	05/30/19	0.01	Test Unit
1534	Cunningham 3	05/30/19	05/30/19	0.05	Compressor damage, requires major overhaul
1535	Cunningham 3	05/30/19	05/30/19	0.01	Test Unit.
1536	Cunningham 3	05/30/19	05/31/19	0.87	Compressor damage, requires major overhaul
1537	Harrington 1	05/30/19	06/06/19	0.27	The unit is derated due to high vibration on the East Induced Draft inboard motor bearing.
1538	Jones 1	05/30/19	05/30/19	0.28	Lack of city effluent flow
1539	Jones 2	05/30/19	05/30/19	0.28	Lack of effluent flow from the city
1540	Jones 1	05/31/19	05/31/19	0.21	Lack of city effluent flow
1541	Jones 2	05/31/19	06/04/19	3.88	Repair furnace gas leaks
1542	Tolk 1	05/31/19	05/31/19	0.04	Unit tripped on loss of flame with a feeder deviation right before, emptying a bunker
1543	Cunningham 3	06/01/19	06/01/19	0.06	Instrument Air valve continuously blowing
1544	Tolk 2	06/01/19	06/02/19	0.11	East Induced Draft fan tripped, electricians are doing Diagnostics on it
1545	Jones 3	06/02/19	06/02/19	0.16	Unit tripped on blade path spread during start up
1546	Tolk 2	06/02/19	06/02/19	0.03	East Induced Draft Fan trip
1547	Nichols 2	06/03/19	06/06/19	2.66	Nichols 2 outage for condenser maintenance
1548	Plant X 3	06/03/19	06/07/19	3.01	Maintenance Outage, to repair hot spots and fix economizer tube leak
1549	Maddox 1	06/04/19	06/04/19	0.01	Boiler Feed Pump Control issues. Mismatch indication on Digital Control System.
1550	Cunningham 3	06/05/19	06/05/19	0.21	Rotor Air Temperature High.
1551	Jones 2	06/05/19	06/06/19	0.08	Gas firing valve control issues at full load/bad gas regulator
1552	Harrington 1	06/06/19	06/07/19	0.89	Unit was removed from service to make adjustments and test equipment from the major outage.
1553	Jones 2	06/06/19	06/06/19	0.44	Lack of effluent flow from the city
1554	Jones 1	06/07/19	06/07/19	0.23	Lack of city effluent flow
1555	Jones 2	06/07/19	06/07/19	0.44	Lack of effluent flow from the city
1556	Plant X 2	06/07/19	06/07/19	0.21	Collector ring adjustments needed
1557	Plant X 4	06/07/19	08/27/19	80.63	Generator rewind
1558	Jones 1	06/08/19	06/08/19	0.20	Lack of city effluent flow
1559	Jones 2	06/08/19	06/08/19	0.37	Lack of effluent flow from the city
1560	Nichols 1	06/08/19	06/09/19	0.36	Nichols unit 1 tripped due to B932 substation relay trip.
1561	Nichols 2	06/08/19	06/08/19	0.28	Nichols unit 1 tripped due to B932 substation relay trip.
1562	Harrington 1	06/10/19	06/10/19	0.33	Unit startup failed due to the automatic voltage regulator Voltage Control Switch tripping when trying to close.
1563	Maddox 2	06/10/19	06/10/19	0.04	Inlet Guide Vanes Closed
1564	Maddox 2	06/10/19	06/11/19	0.86	Inlet Guide Vanes closed.
1565	Jones 1	06/11/19	06/11/19	0.14	Lack of city effluent flow
1566	Jones 1	06/12/19	06/12/19	0.06	Lack of city effluent flow
1567	Jones 2	06/12/19	06/12/19	0.06	Lack of city effluent flow
1568	Jones 1	06/13/19	06/13/19	0.25	Lack of city effluent flow
1569	Jones 2	06/13/19	06/13/19	0.24	Lack of city effluent flow
1570	Maddox 1	06/13/19	06/13/19	0.03	Valve freedom testing
1571	Nichols 1	06/13/19	06/14/19	1.42	Nichols unit 1 is in a maintenance outage
1572	Nichols 2	06/13/19	06/13/19	0.67	Maintenance Outage for Superheat Steam leak repair
1573	Jones 1	06/14/19	06/14/19	0.00	Variable Frequency Drive temperatures increasing
1574	Jones 1	06/14/19	06/15/19	0.34	Lack of city effluent flow
1575	Harrington 2	06/15/19	06/17/19	1.47	The Unit is derated due to the feed pump discharge valve drive not operating to open the valve.
1576	Harrington 3	06/15/19	06/15/19	0.20	The unit failed to hit the line when scheduled to due to the generator breaker not having the ability to close. The air compressor failed that pressures up the delav tank to close the breaker switches.
1577	Jones 1	06/15/19	06/17/19	1.06	Due to leak in reheat section cannot maintain water level in condensate tanks.
1578	Jones 2	06/15/19	06/15/19	0.25	Lack of city effluent flow
1579	Plant X 2	06/15/19	06/21/19	5.98	Unable to maintain drum level due to tube leak
1580	Jones 1	06/16/19	06/16/19	0.25	Lack of city effluent flow
1581	Jones 2	06/16/19	06/16/19	0.25	Lack of city effluent flow
1582	Jones 2	06/16/19	06/16/19	0.22	Lack of city effluent flow
1583	Jones 2	06/16/19	06/16/19	0.28	Lack of city effluent flow
1584	Jones 2	06/16/19	06/17/19	0.68	Cooling tower chlorides high, not enough water from the city to blow down tower
1585	Maddox 1	06/16/19	11/24/19	5.76	Boiler Feed Pump Control issues. Not able to maintain drum level.

Southwestern Public Service Company

Power Plant Maintenance Information

(a) Total Maintenance by Operating Unit for Four Years Prior to the Test Year Period by Month (2018-Present)

Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
1586	Harrington 2	06/17/19	06/20/19	2.73	Unit was removed from service to repair the feed pump discharge valve and clear refractory out of an economizer hopper.
1587	Jones 1	06/17/19	06/17/19	0.24	Lack of city effluent flow
1588	Jones 2	06/17/19	06/17/19	0.24	Lack of city effluent flow
1589	Plant X 3	06/17/19	06/17/19	0.54	Repair Economizer Header leak
1590	Cunningham 3	06/18/19	06/18/19	0.08	Relative Accuracy Test Audit testing: zero fuel required for Relative Accuracy Test Audit
1591	Cunningham 3	06/18/19	06/18/19	0.08	Relative Accuracy Test Audit Testing: zero fuel required for Relative Accuracy Test Audit
1592	Jones 1	06/18/19	06/19/19	1.89	Reheat tube leak
1593	Plant X 1	06/18/19	06/18/19	0.07	Forced Draft fan tripped
1594	Cunningham 3	06/19/19	06/19/19	0.07	Relative Accuracy Test Audit Testing: zero fuel required for Relative Accuracy Test Audit
1595	Cunningham 3	06/19/19	07/19/19	3.59	Derate to 95mw due Wet Compression not available
1596	Plant X 1	06/19/19	06/22/19	3.31	Boiler Tube leak
1597	Tolk 2	06/19/19	06/19/19	0.01	East Induced Draft Fan tripped due to the loss of communication with the fan controller
1598	Cunningham 3	06/20/19	06/20/19	0.11	Relative Accuracy Test Audit Testing: zero fuel required for Relative Accuracy Test Audit
1599	Harrington 2	06/20/19	06/22/19	1.31	Unit is derated because the Main Boiler Feed Pump cannot be placed in service. The discharge valve on the feed pump will not operate.
1600	Harrington 1	06/21/19	06/21/19	0.10	The unit is derated to replace the packing on the north Condensate Pump. The packing leak is affecting our dissolved oxygen levels and back pressure.
1601	Jones 1	06/22/19	06/22/19	0.35	Lack of city effluent flow
1602	Jones 2	06/22/19	06/22/19	0.17	Lack of city effluent flow
1603	Jones 1	06/23/19	06/23/19	0.34	Lack of city effluent flow
1604	Jones 2	06/23/19	06/23/19	0.34	Lack of city effluent flow
1605	Jones 1	06/24/19	06/24/19	0.27	Lack of city effluent flow
1606	Jones 2	06/24/19	06/24/19	0.16	Lack of city effluent flow
1607	Jones 2	06/25/19	06/25/19	0.11	Lack of city effluent flow
1608	Harrington 1	06/26/19	06/27/19	0.57	Unit is derated due to not having the Main Feed pump available for service. The pump needed some alignment work to decrease pump bearing vibrations
1609	Jones 1	06/27/19	06/27/19	0.27	Lack of city effluent flow
1610	Jones 1	06/27/19	06/28/19	0.22	Lack of city effluent flow
1611	Jones 2	06/27/19	06/27/19	0.27	Lack of city effluent flow
1612	Jones 2	06/27/19	06/28/19	0.22	Lack of city effluent flow
1613	Plant X 2	06/27/19	07/05/19	7.72	Unable to maintain drum level
1614	Jones 1	06/28/19	06/29/19	0.34	Lack of city effluent flow
1615	Jones 2	06/28/19	06/29/19	0.34	Lack of city effluent flow
1616	Jones 2	06/28/19	06/29/19	0.34	Lack of city effluent flow
1617	Hale Wind	06/28/19	11/25/19	1.89	3 Turbines are out of service.
1618	Hale Wind	06/28/19	11/25/19	6.72	3 Turbines are out of service. 2 due tower collapse, and one due fire.
1619	Harrington 1	06/29/19	07/02/19	3.12	Unit was removed due to high readings of condensate chemistry readings. We will perform a check and repair of a condenser tube leak
1620	Harrington 2	06/29/19	06/30/19	0.07	Unit was derated to reduce the Baghouse Differential Pressure. We had to remove compartment 3 from service due to failed bags. Derate was released when ambient temp cooled and Forced Draft/Induced Draft fans reduced speed.
1621	Jones 1	06/29/19	06/30/19	0.34	Lack of city effluent flow
1622	Jones 2	06/29/19	06/30/19	0.34	Lack of city effluent flow
1623	Jones 2	06/29/19	06/30/19	0.34	Lack of city effluent flow
1624	Plant X 3	06/29/19	07/03/19	4.39	Unable to maintain drum level
1625	Harrington 2	06/30/19	07/01/19	0.08	Unit was derated to reduce the baghouse Differential Pressure. We had compartment 14 and 3 out of service due to failed bags.
1626	Jones 1	06/30/19	07/01/19	0.20	Lack of city effluent flow
1627	Jones 2	06/30/19	07/01/19	0.20	Lack of city effluent flow
1628	Jones 1	07/01/19	07/02/19	0.27	Lack of city effluent flow
1629	Jones 2	07/01/19	07/02/19	0.27	Lack of city effluent flow
1630	Jones 1	07/02/19	07/03/19	0.25	Lack of city effluent flow
1631	Jones 2	07/02/19	07/03/19	0.25	Lack of city effluent flow
1632	Hale Wind	07/02/19	07/03/19	0.17	In order to isolate the tower that collapsed, we have to isolate it by taking three feeders out, 30 towers.
1633	Jones 1	07/03/19	07/04/19	0.35	Lack of city effluent flow
1634	Jones 2	07/03/19	07/04/19	0.35	Lack of city effluent flow
1635	Harrington 2	07/04/19	07/17/19	12.08	Unit was removed from service to make repairs to a Super Heat tube leak on a division panel.
1636	Jones 1	07/04/19	07/05/19	0.03	Transmitter issue causing heater level to go high.
1637	Jones 1	07/04/19	07/05/19	0.37	Lack of city effluent flow
1638	Jones 2	07/04/19	07/05/19	0.37	Lack of city effluent flow
1639	Jones 1	07/05/19	07/06/19	0.26	Lack of city effluent flow
1640	Jones 2	07/05/19	07/06/19	0.26	Lack of city effluent flow
1641	Plant X 1	07/05/19	07/16/19	11.24	Loss of Excitation trip
1642	Jones 1	07/06/19	07/07/19	0.37	Lack of city effluent flow
1643	Jones 2	07/06/19	07/07/19	0.37	Lack of city effluent flow
1644	Tolk 2	07/06/19	07/06/19	0.02	Unit tripped on low vacuum due to drag line on condenser was opened on wrong unit.
1645	Jones 1	07/07/19	07/08/19	0.37	Lack of city effluent flow
1646	Jones 2	07/07/19	07/08/19	0.34	Lack of city effluent flow

Southwestern Public Service Company

Power Plant Maintenance Information

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1647	Harrington 1	07/08/19	07/15/19	2.67	Unit was derated to take the north condensate pump out of service. The pump need to be repaired to prevent air leaks into the suction of the pump.
1648	Jones 1	07/08/19	07/09/19	0.30	Lack of city effluent flow
1649	Jones 2	07/08/19	07/09/19	0.27	Lack of city effluent flow
1650	Plant X 2	07/08/19	07/11/19	2.96	Unable to maintain drum level
1651	Jones 1	07/09/19	07/10/19	0.43	Lack of city effluent flow
1652	Jones 2	07/09/19	07/10/19	0.40	Lack of city effluent flow
1653	Jones 1	07/10/19	07/10/19	0.00	Variable Frequency Drive on Forced Draft fans went into alarm so derated to get out of alarm situation.
1654	Jones 1	07/10/19	07/11/19	0.34	Lack of city effluent flow
1655	Jones 2	07/10/19	07/11/19	0.34	Lack of city effluent flow
1656	Quay Co 1	07/10/19	07/26/19	16.01	Quay county in forced outage due to automatic voltage regulator setting issues.
1657	Jones 1	07/11/19	07/12/19	0.37	Lack of city effluent flow
1658	Jones 2	07/11/19	07/12/19	0.34	Lack of city effluent flow
1659	Tolk 1	07/11/19	07/16/19	4.90	Reheat tube leak
1660	Jones 1	07/12/19	07/13/19	0.34	Lack of city effluent flow
1661	Jones 2	07/12/19	07/13/19	0.34	Lack of city effluent flow
1662	Plant X 2	07/12/19	12/31/19	38.38	Operating boiler at reduced pressure due to hydrogen embrittlement damage.
1663	Jones 1	07/13/19	07/14/19	0.34	Lack of city effluent flow
1664	Jones 2	07/13/19	07/14/19	0.34	Lack of city effluent flow
1665	Jones 1	07/14/19	07/15/19	0.34	Lack of city effluent flow
1666	Jones 2	07/14/19	07/15/19	0.34	Lack of city effluent flow
1667	Harrington 1	07/16/19	07/16/19	0.03	Opacity running high at full load
1668	Maddox 1	07/16/19	07/20/19	3.80	Repair leak on high pressure heater drain control valve between number 1 and 2 heaters
1669	Jones 3	07/17/19	07/17/19	0.30	Stack Inspection
1670	Jones 1	07/18/19	07/18/19	0.06	Lack of city effluent flow
1671	Jones 1	07/18/19	07/19/19	0.26	Lack of city effluent flow
1672	Jones 2	07/18/19	07/18/19	0.06	Lack of city effluent flow
1673	Jones 2	07/18/19	07/19/19	0.26	Lack of city effluent flow
1674	Cunningham 2	07/19/19	07/23/19	2.04	South Forced Draft fan Variable Frequency Drive tripped, will not restart
1675	Jones 1	07/19/19	07/20/19	0.34	Lack of city effluent flow
1676	Jones 2	07/19/19	07/20/19	0.34	Lack of city effluent flow
1677	Cunningham 2	07/20/19	07/27/19	6.85	boiler inspection for hydrogen damage
1678	Harrington 1	07/20/19	07/20/19	0.01	Swapping from Start up source breaker to normal source breaker on Q bus tripped turbine which opened generator breaker
1679	Jones 1	07/20/19	07/21/19	0.30	Lack of city effluent flow
1680	Jones 2	07/20/19	07/21/19	0.30	Lack of city effluent flow
1681	Jones 1	07/21/19	07/22/19	0.25	Lack of city effluent flow
1682	Jones 2	07/21/19	07/22/19	0.25	Lack of city effluent flow
1683	Jones 1	07/22/19	07/23/19	0.25	Lack of city effluent flow
1684	Jones 2	07/22/19	07/23/19	0.12	Lack of city effluent flow
1685	Jones 1	07/23/19	07/24/19	0.34	Lack of city effluent flow
1686	Jones 2	07/23/19	07/24/19	0.34	Lack of city effluent flow
1687	Hale Wind	07/23/19	07/23/19	0.08	Landowner needs to dig up piping that was damaged during construction. This will require taking 2 feeders, 24 towers, out of service.
1688	Jones 2	07/24/19	07/25/19	0.40	Lack of city effluent flow
1689	Jones 1	07/25/19	07/25/19	0.15	Lack of city effluent flow
1690	Jones 1	07/25/19	07/26/19	0.20	Lack of city effluent flow
1691	Tolk 1	07/25/19	07/25/19	0.67	Maintenance on Unit Exciter - ground
1692	Cunningham 1	07/26/19	07/26/19	0.05	Level swinging on boiler, Deaerator, and Hotwell
1693	Cunningham 1	07/26/19	09/09/19	4.63	South Boiler Feedwater Pump Fluid Drive issues. Feed pump not maintaining flow
1694	Cunningham 4	07/26/19	07/27/19	1.46	Flashback thermocouple 8 caused unit to come off line.
1695	Harrington 2	07/26/19	07/26/19	0.00	Unit had to be derated to eliminate boiler swings. The swings were causing the boiler to go positive.
1696	Jones 1	07/26/19	07/27/19	0.16	Lack of city effluent flow
1697	Maddox 2	07/26/19	07/26/19	0.14	Inlet Guide Vanes stuck.
1698	Nichols 3	07/26/19	07/26/19	0.15	Nichols unit 3 is in force outage due to turbine speed issues
1699	Quay Co 1	07/26/19	07/29/19	2.96	Quay County is in unplanned forced outage due to automatic voltage regulator settings issues
1700	Jones 2	07/27/19	07/27/19	0.60	Repair Superheat vent valve
1701	Jones 4	07/27/19	07/29/19	2.18	Inlet Guide Vanes positioner feedback mismatch
1702	Harrington 3	07/28/19	07/29/19	1.05	Unit was removed from line to make repairs to a 2" test line that was leaking on the discharge pipping of the main feed pump
1703	Harrington 1	07/29/19	07/29/19	0.03	Unit was derated to make repairs to the north condensate pump seal water system.
1704	Jones 1	07/29/19	07/30/19	0.47	Lack of city effluent flow
1705	Jones 2	07/29/19	07/30/19	0.47	Lack of city effluent flow
1706	Jones 1	07/30/19	07/31/19	0.37	Lack of city effluent flow
1707	Jones 2	07/30/19	07/31/19	0.37	Lack of city effluent flow
1708	Jones 1	07/31/19	08/01/19	0.37	Lack of city effluent flow

Southwestern Public Service Company

Power Plant Maintenance Information

(a) Total Maintenance by Operating Unit for Four Years Prior to the Test Year Period by Month (2018-Present)

Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
1709	Jones 2	07/31/19	08/01/19	0.37	Lack of city effluent flow
1710	Jones 1	08/01/19	08/01/19	0.12	Lack of city effluent flow
1711	Jones 1	08/01/19	08/02/19	0.34	Lack of city effluent flow
1712	Jones 2	08/01/19	08/01/19	0.15	Lack of city effluent flow
1713	Jones 2	08/01/19	08/02/19	0.37	Lack of city effluent flow
1714	Plant X 1	08/01/19	08/04/19	3.00	Boiler tube leak
1715	Plant X 2	08/01/19	08/04/19	2.96	Boiler tube leak
1716	Jones 1	08/02/19	08/03/19	0.34	Lack of city effluent flow
1717	Jones 2	08/02/19	08/03/19	0.37	Lack of city effluent flow
1718	Jones 1	08/03/19	08/04/19	0.31	Lack of city effluent flow
1719	Jones 2	08/03/19	08/04/19	0.34	Lack of city effluent flow
1720	Jones 1	08/04/19	08/04/19	0.01	Gas valve limit - fully open - caused boiler to swing.
1721	Jones 1	08/04/19	08/05/19	0.34	Lack of city effluent flow
1722	Jones 2	08/04/19	08/05/19	0.37	Lack of city effluent flow
1723	Nichols 3	08/04/19	08/04/19	0.00	Nichols 3 unit is in a unplanned forced derate to 240 MWs due to air leakage on the boiler which is limiting load, and a possible boiler tube leak.
1724	Nichols 3	08/04/19	08/09/19	5.17	Nichols 3 unit is in a unplanned forced outage due to a boiler tube leak.
1725	Plant X 1	08/04/19	08/09/19	5.38	Auxiliary Cooling Water Cooler leak into Turbine Oil Tank
1726	Jones 1	08/05/19	08/06/19	0.21	Lack of city effluent flow
1727	Jones 2	08/05/19	08/06/19	0.21	Lack of city effluent flow
1728	Harrington 2	08/06/19	08/06/19	0.01	Running out of fans boiler going positive
1729	Jones 1	08/06/19	08/07/19	0.19	Lack of city effluent flow
1730	Jones 2	08/06/19	08/07/19	0.19	Lack of city effluent flow
1731	Harrington 2	08/07/19	08/07/19	0.01	Out of fans boiler going positive
1732	Jones 1	08/07/19	08/08/19	0.25	Lack of city effluent flow
1733	Jones 2	08/07/19	08/08/19	0.07	Lack of city effluent flow
1734	Cunningham 4	08/08/19	08/09/19	0.09	Calibrate Lower Explosive Limit Gas Detectors
1735	Harrington 1	08/08/19	08/08/19	0.03	Dropped load because of Opacity - raining hard
1736	Jones 1	08/08/19	08/08/19	0.02	Excessive heat in Variable Frequency Drive housing
1737	Jones 2	08/08/19	08/09/19	0.34	Lack of city effluent flow
1738	Hale Wind	08/08/19	08/08/19	0.06	Taking 48 towers out of service. A landowner has a busted water line that was caused during construction.
1739	Hale Wind	08/08/19	08/08/19	0.03	Taking 48 towers out of service. A landowner has a busted water line that was caused during construction.
1740	Harrington 2	08/09/19	08/09/19	0.01	Running out of fans boiler going positive
1741	Jones 1	08/09/19	08/09/19	0.01	Lost an AC unit on Variable Frequency Drive housing causing high temps
1742	Jones 1	08/09/19	08/09/19	0.08	Main Power Transformer high oil temp
1743	Jones 1	08/09/19	08/10/19	0.27	Lack of city effluent flow
1744	Harrington 2	08/10/19	08/10/19	0.01	Running out of fans boiler going positive
1745	Jones 1	08/10/19	08/10/19	0.05	Excessive heat in Variable Frequency Drive housing
1746	Jones 1	08/10/19	08/11/19	0.32	Lack of city effluent flow
1747	Cunningham 3	08/11/19	08/13/19	2.27	Unit tripped on vibration indication at full load.
1748	Harrington 2	08/11/19	08/11/19	0.01	Running out of fans boiler going positive
1749	Jones 1	08/11/19	08/11/19	0.05	Excessive heat in Variable Frequency Drive housing
1750	Jones 1	08/11/19	08/12/19	0.34	Lack of city effluent flow
1751	Jones 2	08/11/19	08/12/19	0.34	Lack of city effluent flow
1752	Plant X 3	08/11/19	08/15/19	4.20	Unable to maintain drum level, waterwall tube leak due to hydrogen damage and embrittlement
1753	Jones 1	08/12/19	08/13/19	0.34	Lack of city effluent flow
1754	Jones 2	08/12/19	08/13/19	0.28	Lack of city effluent flow
1755	Plant X 1	08/12/19	08/12/19	0.22	2400 volt breaker issue
1756	Cunningham 3	08/13/19	08/13/19	0.02	Combustor probe issue caused unit to trip.
1757	Cunningham 3	08/13/19	08/13/19	0.10	Combustor probe issue caused startup failure.
1758	Harrington 2	08/13/19	08/13/19	0.01	Unit was derated to prevent the boiler from going positive. The boiler is swinging and causing us to limit on Induced Draft fans.
1759	Jones 1	08/13/19	08/14/19	0.31	Lack of city effluent flow
1760	Nichols 3	08/13/19	08/13/19	0.02	Nichols unit 3 tripped due to changing a light bulb in a relay.
1761	Hale Wind	08/13/19	08/13/19	0.06	Have to take three feeders out of service which will effect 29 turbines. Landowner needs his underground pipe repaired, it was damaged during construction.
1762	Hale Wind	08/13/19	08/13/19	0.06	Have to take three feeders out of service which will effect 29 turbines. Landowner needs his underground pipe repaired, it was damaged during construction.
1763	Jones 1	08/14/19	08/15/19	0.16	Lack of city effluent flow
1764	Jones 2	08/14/19	08/15/19	0.16	Lack of city effluent flow
1765	Jones 3	08/14/19	08/30/19	16.57	Repair stack liner
1766	Jones 4	08/14/19	08/15/19	0.71	Rotor Air Cooler Repair
1767	Cunningham 1	08/15/19	08/21/19	6.68	Unit brought off line due to boiler tube leak.
1768	Harrington 1	08/16/19	08/18/19	1.86	Unit was removed from service to make repairs to a waterwall tube leak.
1769	Jones 1	08/16/19	08/17/19	0.34	Lack of city effluent flow
1770	Jones 2	08/16/19	08/17/19	0.28	Lack of city effluent flow
1771	Maddox 2	08/16/19	08/25/19	9.01	#1 bearing has oil leak

Southwestern Public Service Company

Power Plant Maintenance Information

(a) Total Maintenance by Operating Unit for Four Years Prior to the Test Year Period by Month (2018-Present)

Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
1772	Jones 1	08/17/19	08/18/19	0.33	Lack of city effluent flow
1773	Jones 2	08/17/19	08/18/19	0.33	Lack of city effluent flow
1774	Harrington 2	08/18/19	08/18/19	0.43	Unit went from and reserve shutdown to a forced outage when it was discovered that the water treating facility ruptured a condensate supply line out of the demineralizer. We had no condensate make up to our condensate tanks.
1775	Harrington 3	08/18/19	08/18/19	0.33	Unit was derated due to loss of condensate supply from Nichols water treating facility. This was a preservation measure. The unit derate was lifted when we got partial make up established.
1776	Jones 1	08/18/19	08/19/19	0.31	Lack of city effluent flow
1777	Jones 2	08/18/19	08/19/19	0.34	Lack of city effluent flow
1778	Nichols 1	08/18/19	08/18/19	0.14	Nichols 1 unplanned derate due to electrodeionization inlet water line failure
1779	Nichols 2	08/18/19	08/18/19	0.18	Nichols 2 in unplanned forced outage for main inlet line to electrodeionization failure
1780	Nichols 3	08/18/19	08/18/19	0.18	Nichols 3 in unplanned forced outage for main inlet line to electrodeionization failure
1781	Cunningham 2	08/19/19	08/19/19	0.13	Leak on copper line to controls above main gas firing valve on 3 1/2 level.
1782	Jones 1	08/19/19	08/19/19	0.01	Lack of city effluent flow
1783	Jones 2	08/19/19	08/19/19	0.02	Lack of city effluent flow
1784	Jones 1	08/20/19	08/21/19	0.37	Lack of city effluent flow
1785	Jones 2	08/20/19	08/21/19	0.37	Lack of city effluent flow
1786	Jones 1	08/21/19	08/22/19	0.37	Lack of city effluent flow
1787	Jones 2	08/21/19	08/22/19	0.37	Lack of city effluent flow
1788	Tolk 2	08/21/19	08/23/19	1.13	Lower drum leak
1789	Jones 1	08/22/19	08/23/19	0.37	Lack of city effluent flow
1790	Jones 2	08/22/19	08/23/19	0.37	Lack of city effluent flow
1791	Nichols 1	08/22/19	08/29/19	6.54	Nichols 1 unplanned forced outage due to boiler tube leak in reheater section
1792	Plant X 3	08/22/19	08/24/19	1.49	Unable to maintain drum level, waterwall tube leak due to hydrogen damage and embrittlement
1793	Jones 1	08/23/19	08/24/19	0.31	Lack of city effluent flow
1794	Jones 2	08/23/19	08/24/19	0.31	Lack of city effluent flow
1795	Hale Wind	08/23/19	08/30/19	7.96	Transmission Line Failure.
1796	Hale Wind	08/23/19	08/30/19	7.83	Transmission Line Failure.
1797	Jones 1	08/24/19	08/25/19	0.61	Lack of city effluent flow
1798	Jones 2	08/24/19	08/25/19	0.20	Lack of city effluent flow
1799	Plant X 1	08/24/19	08/29/19	5.26	Forced Draft Fan tripped
1800	Jones 1	08/25/19	08/26/19	0.16	Lack of city effluent flow
1801	Jones 2	08/25/19	08/26/19	0.16	Lack of city effluent flow
1802	Maddox 1	08/25/19	08/28/19	2.75	#1 High Pressure Heater tube leak.
1803	Cunningham 3	08/26/19	08/26/19	0.03	Lube Oil Temperature tripped unit at 151.9 degrees.
1804	Cunningham 3	08/26/19	08/26/19	0.10	Unit failed to start after lube oil tripped unit.
1805	Harrington 2	08/26/19	08/30/19	4.19	Unit was removed from service due to a condenser tube leak.
1806	Harrington 3	08/26/19	08/28/19	0.71	Unit is derated due to 2 Mills being unavailable.
1807	Jones 1	08/26/19	08/26/19	0.01	Loss of Variable Frequency Drive Air Conditioner
1808	Jones 2	08/26/19	08/26/19	0.04	Lack of city effluent flow
1809	Plant X 2	08/26/19	08/30/19	3.88	Boiler tube leak, unable to maintain drum level.
1810	Cunningham 2	08/27/19	08/27/19	0.19	Sensing line ruptured.
1811	Jones 1	08/27/19	08/28/19	0.09	Lack of city effluent flow
1812	Jones 2	08/27/19	08/27/19	0.04	Lack of city effluent flow
1813	Jones 1	08/28/19	08/29/19	0.73	Lack of city effluent flow
1814	Maddox 1	08/28/19	09/10/19	13.19	Major Oil Leak on Electro-Hydraulic
1815	Jones 1	08/29/19	08/30/19	0.27	Lack of city effluent flow
1816	Jones 2	08/29/19	08/30/19	0.27	Lack of city effluent flow
1817	Jones 1	08/30/19	08/31/19	0.34	Lack of city effluent flow
1818	Jones 2	08/30/19	08/31/19	0.37	Lack of city effluent flow
1819	Jones 1	08/31/19	09/01/19	0.34	Lack of city effluent flow
1820	Jones 2	08/31/19	09/01/19	0.37	Lack of city effluent flow
1821	Jones 1	09/01/19	09/02/19	0.22	Lack of city effluent flow
1822	Jones 2	09/01/19	09/02/19	0.20	Lack of city effluent flow
1823	Nichols 3	09/01/19	11/03/19	62.99	Nichols unit 3 is in major overhaul.
1824	Tolk 1	09/01/19	09/01/19	0.01	Lost 6 cooling tower fans to lightning - electricians out to repair vibration probes
1825	Harrington 3	09/02/19	09/10/19	8.06	Unit was removed from service for a planned mini outage. Scope is 4 compartment rebag, Circulating line inspection, front standard, Reheat valve.
1826	Jones 1	09/02/19	09/03/19	0.24	Lack of city effluent flow
1827	Jones 2	09/02/19	09/03/19	0.28	Lack of city effluent flow
1828	Cunningham 3	09/03/19	09/04/19	0.75	Replace Gas Firing Valve
1829	Harrington 1	09/03/19	09/03/19	0.03	Unit was derated do to experiencing high opacity readings.
1830	Maddox 3	09/03/19	09/17/19	14.33	Hydro Vacuuming around U940. Building fence around the air disconnects.
1831	Nichols 1	09/03/19	09/03/19	0.01	Nichols 1 unit was in a unplanned forced outage due to a blocked gas valve that was operated attempting to block Nichols 3 unit gas
1832	Nichols 2	09/03/19	09/03/19	0.02	Nichols 2 unit was in a unplanned forced outage due to a blocked gas valve that was operated attempting to block Nichols 3 unit gas
1833	Plant X 4	09/03/19	09/18/19	7.83	Loss of West Forced draft fan
1834	Cunningham 1	09/04/19	09/06/19	1.94	Replace Gas Burner hose. Cooling Tower suction line.

Southwestern Public Service Company

Power Plant Maintenance Information

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Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
1835	Jones 1	09/04/19	09/04/19	0.31	Lack of city effluent flow
1836	Jones 2	09/04/19	09/04/19	0.31	Lack of city effluent flow
1837	Jones 4	09/04/19	09/15/19	11.11	Repair exhaust stack
1838	Jones 1	09/05/19	09/05/19	0.31	Lack of city effluent flow
1839	Jones 2	09/05/19	09/05/19	0.31	Lack of city effluent flow
1840	Harrington 1	09/06/19	09/06/19	0.04	Unit was derated to prevent opacity violations. The chemical feed that aids in controlling opacity was not operating as designed.
1841	Jones 1	09/06/19	09/06/19	0.25	Lack of city effluent flow
1842	Jones 2	09/06/19	09/06/19	0.25	Lack of city effluent flow
1843	Jones 1	09/07/19	09/07/19	0.26	Lack of city effluent flow
1844	Jones 2	09/07/19	09/07/19	0.26	Lack of city effluent flow
1845	Tolk 1	09/07/19	09/07/19	0.03	Coal leak excessive on E mill transition pipe, will need to take off E mill to repair and C mill is still out for overhaul, maintenance called out
1846	Jones 1	09/08/19	09/08/19	0.37	Lack of city effluent flow
1847	Jones 2	09/08/19	09/08/19	0.37	Lack of city effluent flow
1848	Plant X 2	09/08/19	09/11/19	3.02	Unable to maintain drum level due to waterwall tube leak due to hydrogen damage and embrittlement
1849	Plant X 3	09/08/19	09/20/19	11.95	Unable to maintain drum level, waterwall tube leak due to hydrogen damage and embrittlement
1850	Nichols 1	09/09/19	09/09/19	0.63	Nichols unit 1 maintenance outage to repair line
1851	Cunningham 3	09/12/19	09/12/19	0.01	Unit failed to start.
1852	Cunningham 3	09/12/19	09/18/19	6.13	Unit failed to start due to ignitor issues.
1853	Harrington 3	09/12/19	09/12/19	0.06	Unit was derated to make an inspection to A Coal Mill. We also have E mill out of service for a full overhaul.
1854	Nichols 1	09/15/19	12/31/19	108.00	Nichols unit 1 is in major overhaul. Turbine inspection (High Pressure, Intermediate Pressure ,Low Pressure, Generator)
1855	Jones 2	09/16/19	09/21/19	5.74	Boiler and circ line repairs
1856	Maddox 2	09/16/19	09/17/19	1.33	Replace U940 Breaker
1857	Plant X 1	09/16/19	10/01/19	14.22	Start up transformer low voltage issues during change of unit online/offline status.
1858	Cunningham 2	09/17/19	12/03/19	76.88	Tube leaks. Loss of Drum level and pressure.
1859	Harrington 1	09/17/19	09/18/19	0.75	Unit was removed from service to make repairs to the #1 High Pressure Feedwater Heater running and startup vents.
1860	Maddox 3	09/17/19	10/22/19	34.93	Remove and replace u940 and put up fence
1861	Plant X 4	09/18/19	09/19/19	1.75	Replace X4 west forced draft fan motor
1862	Cunningham 4	09/19/19	09/19/19	0.11	Unit tripped.
1863	Cunningham 4	09/19/19	09/24/19	4.83	Thermocouple failure.
1864	Jones 1	09/19/19	09/19/19	0.06	Lack of city effluent flow
1865	Harrington 2	09/20/19	09/20/19	0.12	Unit tripped on high drum level. Operator had a Drum Level deviation between level transmitters. When determining which transmitter was causing the problem he chose the wrong transmitter and overrode the redundant transmitter. The next high level tripped the turbine.
1866	Harrington 1	09/22/19	09/22/19	0.02	Unit was derated to prevent opacity violations.
1867	Harrington 2	09/22/19	09/22/19	0.04	Unit was derated to take baghouse compartments out of service to replace failed bags.
1868	Harrington 2	09/23/19	09/23/19	0.03	Unit was derated to replace failed bags.
1869	Jones 2	09/23/19	11/14/19	52.79	#1 Bearing vibration and temperature problems
1870	Cunningham 1	09/24/19	10/16/19	22.55	Furnace Waterwall tube leak.
1871	Jones 3	09/25/19	09/25/19	0.09	Blade Path Spread
1872	Plant X 3	09/25/19	09/30/19	5.37	Unable to maintain drum level, waterwall tube leak due to hydrogen damage and embrittlement
1873	Cunningham 3	09/26/19	09/26/19	0.09	Repair fix for relay settings
1874	Cunningham 4	09/26/19	09/26/19	0.04	Repair fix for relays
1875	Plant X 2	09/29/19	12/31/19	93.04	Substation outage work requires unit to be offline
1876	Plant X 3	09/30/19	11/30/19	60.04	Substation outage requires unit be offline
1877	Cunningham 3	10/01/19	10/02/19	0.50	Rotor Air Cooler tripped.
1878	Plant X 1	10/01/19	12/31/19	92.04	Start up transformer low voltage issues during change of unit online/offline status
1879	Plant X 4	10/02/19	10/02/19	0.10	Unable to maintain Deaerator level, loss of condensate pump variable drive prime
1880	Harrington 2	10/03/19	10/03/19	0.01	High Drum level trip
1881	Harrington 1	10/04/19	10/04/19	0.37	West Dry Vent on Steam drum has a split in valve causing steam leak.
1882	Harrington 3	10/04/19	10/04/19	0.10	D mill's feeder plugged we are down to 3 mill operation
1883	Harrington 3	10/04/19	10/04/19	0.02	Feeder Plugged alarm not letting feeder to run
1884	Maddox 1	10/04/19	10/17/19	12.98	Boiler Tube Leaks
1885	Tolk 1	10/04/19	10/04/19	0.35	Generator "A" phase has possible ground, maintenance inspection -"Failed resistor on the Potential Transformer & Current Transformer caused a false grounding indication."
1886	Harrington 3	10/05/19	10/05/19	0.05	Unit was derated due to loss of a mill. B mill is out of service and in need of extensive repairs. C mill tripped on loss of coal due to wet coal plugging.
1887	Jones 3	10/05/19	10/06/19	0.58	NOx analyzer failed
1888	Harrington 2	10/06/19	10/06/19	0.02	Boiler tripped wet coal in feeders
1889	Harrington 2	10/06/19	10/06/19	0.12	Wet coal in Feeders down to 3 mill operation
1890	Cunningham 4	10/11/19	10/11/19	0.11	NOX reaching limits. Shutdown unit.
1891	Harrington 3	10/15/19	10/15/19	0.13	Unit was removed from line to make repairs to an Electro-Hydraulic leak on right Throttle Valves
1892	Harrington 1	10/16/19	10/17/19	0.11	Unit is derated to prevent opacity exceedances. Transformer-rectifier set ED4 is out of service.
1893	Harrington 2	10/16/19	10/18/19	1.81	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
1894	Hale Wind	10/16/19	10/16/19	0.02	Tower 184 Switchgear repair from construction.

Southwestern Public Service Company

Power Plant Maintenance Information

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Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
1895	Hale Wind	10/16/19	10/16/19	0.03	Tower 184 Switchgear repair from construction.
1896	Maddox 2	10/17/19	10/19/19	1.77	Blade Path Temperature problems
1897	Cunningham 1	10/18/19	10/18/19	0.05	Gas Sensing Line problem.
1898	Cunningham 1	10/18/19	10/26/19	7.91	Air Preheater breaker problems
1899	Cunningham 4	10/19/19	10/28/19	8.35	Combustion Inspection
1900	Harrington 1	10/21/19	10/21/19	0.15	Derate request by Transmission System Operations
1901	Nichols 2	10/21/19	11/01/19	11.74	Maintenance outage to repair windbox
1902	Harrington 1	10/25/19	10/25/19	0.46	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
1903	Cunningham 1	10/28/19	11/01/19	1.38	Unit drum pressure lowered to 1000# and 30 mw gross due to possible tube leak to conserve water.
1904	Jones 1	10/29/19	10/30/19	0.75	City effluent water supply booster pump installation
1905	Cunningham 4	10/31/19	11/03/19	2.46	Basket #10. Support housing Air Leak.
1906	Harrington 1	10/31/19	10/31/19	0.03	Unit dropped load the cool the back end of boiler temperatures down after performance testing to prevent Opacity issues
1907	Jones 3	10/31/19	10/31/19	0.12	Loss Red River line pressure to plant. (Issue with supplier's valve)
1908	Jones 4	10/31/19	10/31/19	0.08	Loss Red River line pressure to plant. (Issue with supplier's valve)
1909	Cunningham 1	11/01/19	11/05/19	2.59	Fixed load and pressure due to potential tube leaks
1910	Jones 3	11/02/19	11/02/19	0.03	"Turb/Gen XHI vibration" went high
1911	Jones 4	11/03/19	11/08/19	5.91	Borescope Inspection
1912	Nichols 3	11/04/19	11/04/19	0.39	Unit tripped due to failure in the automatic voltage regulator sending signal to lockout relay.
1913	Cunningham 1	11/05/19	11/25/19	19.78	Boiler Tube Leak: Furnace Waterwall
1914	Harrington 3	11/06/19	11/07/19	1.16	Unit was tripped when the breaker E4H was tripped. The breaker was accidentally manually tripped by an electrician while trouble shooting the diesel generator breaker and relays
1915	Nichols 3	11/06/19	11/06/19	0.27	Nichols Unit 3 Immediate outage due to loss of boiler pilot air
1916	Harrington 3	11/07/19	11/08/19	0.38	The startup failure was caused when the unit could not continue the startup due to the startup feedwater valve actuator failed
1917	Harrington 1	11/08/19	11/08/19	0.10	Unit needs to decrease load due to Opacity, cannot blow retracts and having to shut off rappers to stay out of six minute alarm
1918	Harrington 1	11/09/19	11/09/19	0.01	Unit needs to decrease load due to Opacity, cannot blow retracts and having to shut off rappers to stay out of six minute alarm
1919	Jones 3	11/10/19	11/17/19	7.00	Borescope Inspection
1920	Cunningham 4	11/11/19	11/11/19	0.22	Loss of Turning Gear
1921	Harrington 1	11/12/19	11/13/19	0.07	Unit was derated to prevent an opacity violation.
1922	Harrington 3	11/12/19	11/12/19	0.01	Unit was derated due to the Reheater desuperheater valve not opening.
1923	Jones 4	11/12/19	11/12/19	0.12	Red River Suppliers Gas Block Valves Did Not Open and Lost Line Pressure
1924	Nichols 3	11/14/19	11/16/19	2.65	Nichols Unit 3 is in planned outage
1925	Jones 2	11/16/19	11/19/19	3.08	Boiler Tube Leak
1926	Harrington 2	11/17/19	11/18/19	0.81	Unit tripped off line when the automatic voltage regulator manually tripped the unit generator.
1927	Jones 3	11/17/19	11/20/19	3.73	Borescope Inspection.
1928	Harrington 2	11/18/19	11/18/19	0.01	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
1929	Harrington 3	11/18/19	11/23/19	1.45	Unit is derated because D Mill is out of service to replace the Cone. B mill is also out of service to replace the bowl
1930	Jones 1	11/18/19	11/19/19	0.50	#1 High Pressure heater torsion ring head leak
1931	Tolk 2	11/19/19	11/22/19	2.72	Maintenance outage to repair center high pressure booster pump and cooling tower pH probe
1932	Cunningham 3	11/21/19	11/21/19	0.05	Ignitor issues
1933	Cunningham 1	11/25/19	12/31/19	15.05	Reduced pressure due to Furnace Waterwall tube issues
1934	Maddox 1	11/25/19	12/05/19	9.75	Boiler Recirculation Valves. Balance of Plant
1935	Hale Wind	11/25/19	01/22/20	0.49	Turbines out of service.
1936	Hale Wind	11/25/19	01/24/20	2.44	2 Turbines out of service due to tower collapse.
1937	Jones 1	11/27/19	11/27/19	0.01	#2A Drains Valve Diaphragm Blown
1938	Jones 2	11/28/19	11/29/19	0.61	High Chlorides on the Cooling Tower
1939	Jones 1	11/29/19	11/29/19	0.03	Investigate Hydrogen Cooler Leak
1940	Jones 2	11/29/19	11/29/19	0.03	Investigate Hydrogen Cooler Leak
1941	Plant X 3	11/30/19	12/31/19	32.00	Discovery work on boiler
1942	Cunningham 4	12/02/19	12/02/19	0.41	Gas Turbine turning gear electrical issues.
1943	Cunningham 2	12/03/19	12/15/19	3.98	Load limit to 125mw gross. Drum pressure limit 1340# due to Boiler tube issues.
1944	Cunningham 3	12/04/19	12/04/19	0.19	Work on Thermocouples and Calibrate Gas Detectors
1945	Harrington 3	12/04/19	12/04/19	0.04	Derate 3 mill operation due to feeder bearing failure on the 4th mill
1946	Maddox 2	12/04/19	12/12/19	7.78	Generator Resistance Temperature Detector Invalid.
1947	Maddox 1	12/05/19	12/18/19	13.67	Planned outage extension.
1948	Cunningham 3	12/08/19	12/08/19	0.39	Turning gear wouldn't properly engage
1949	Cunningham 3	12/08/19	12/08/19	0.28	Allow time for Unit to be on gear
1950	Jones 2	12/09/19	12/12/19	3.19	Boiler Tube Leak
1951	Maddox 3	12/09/19	12/09/19	0.45	Lube Oil Temperature too cool to start unit.
1952	Harrington 3	12/10/19	12/13/19	0.69	Unit was derated due to only having 3 coal mills available. C mill needed to have the liners in the exhauster area replaced and B mill was unavailable
1953	Nichols 2	12/11/19	12/11/19	0.13	Nichols 2 Overspeed test
1954	Jones 3	12/12/19	12/14/19	1.71	Red River Gas Safety Valve Issues
1955	Jones 4	12/12/19	12/14/19	1.71	Red River Gas Relief Valve Issues

Southwestern Public Service Company

Power Plant Maintenance Information

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Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
1956	Maddox 2	12/12/19	12/12/19	0.03	Unit tripped on 86G Lockout
1957	Maddox 2	12/12/19	12/31/19	19.42	86G relay locked out. Unit tripped.
1958	Harrington 2	12/14/19	12/14/19	0.22	Unit was tripped when the Automatic Voltage Regulator failed.
1959	Cunningham 2	12/15/19	12/31/19	16.85	Tube Leaks.
1960	Jones 1	12/15/19	12/16/19	0.26	Lack of city effluent flow
1961	Jones 2	12/15/19	12/16/19	0.24	Due to water make up for lagoon
1962	Plant X 4	12/15/19	12/15/19	0.08	East Boiler Feed pump tripped due to faulty wire, lost vacuum do to loss of cooling tower fans.
1963	Plant X 4	12/15/19	12/16/19	1.01	Upon further investigations we had a faulted and grounded cable between 4X15 4160V Breaker and the 4160/480v transformer
1964	Hale Wind	12/15/19	12/18/19	0.35	Twenty six turbines were off line due to a failure in the underground cable/feeder.
1965	Hale Wind	12/15/19	12/20/19	0.65	Feeder breaker out of service to reconnect tower switch gear.
1966	Harrington 3	12/16/19	12/16/19	0.10	Unit is derated to inspect A mill.
1967	Harrington 2	12/17/19	12/17/19	0.03	Unit was derated because A mill hot air gate would not operate. We also had E mill out of service to make coal leak repairs.
1968	Plant X 4	12/17/19	12/31/19	5.30	Damaged wire to East Boiler Feed Pump, which will not allow us to operate the Boiler Feed Pump
1969	Plant X 4	12/17/19	12/18/19	1.28	Inspect Main Transformer
1970	Cunningham 4	12/18/19	12/18/19	0.15	Ignition Failed
1971	Cunningham 4	12/18/19	12/18/19	0.05	Ignition failed
1972	Cunningham 4	12/18/19	12/18/19	0.13	Ignition failed
1973	Harrington 1	12/18/19	12/18/19	0.02	Unit was derated due to high opacity readings. The chemical injection system to the Electrostatic Precipitator failed for ~4.5 hours.
1974	Harrington 2	12/18/19	12/19/19	0.76	Unit was removed from line to make repairs on a main steam sample line coming off of the mixing chamber.
1975	Harrington 3	12/18/19	12/18/19	0.10	Unit was derated to inspect E Mill. B Mill is unavailable.
1976	Nichols 3	12/19/19	12/19/19	0.08	Over speed test and calibrate Main Steam Stop Valve
1977	Plant X 4	12/20/19	12/20/19	0.07	Unit taken offline to repair High Pressure feedwater heater safety relief valves.
1978	Jones 1	12/21/19	12/22/19	0.47	Derate to make up lagoon level
1979	Jones 2	12/21/19	12/22/19	0.47	Due to water make up for lagoon
1980	Plant X 4	12/23/19	12/31/19	8.73	Outage to repair wiring on the 4160 volt breaker bus.
1981	Harrington 3	12/24/19	12/31/19	2.02	Unit is derated due to lack of mills in service needed for full load. A Mill experienced a mill explosion and B mill is out of service for bowl replacement
1982	Jones 1	12/26/19	12/26/19	0.50	Derate to make up lagoon level
1983	Jones 2	12/26/19	12/26/19	0.50	Due to water make up for lagoon
1984	Jones 1	12/29/19	12/29/19	0.36	Derate to make up lagoon level
1985	Jones 2	12/29/19	12/29/19	0.36	Due to water make up for lagoon
1986	Cunningham 4	12/30/19	12/31/19	0.94	Computer System frozen. Unit is offline. No trip or shutdown
2020					
1987	Maddox 2	01/01/20	01/03/20	2.66	86G relay locked out. Unit won't go online.
1988	Hale Wind	01/02/20	01/02/20	0.03	2 Feeders out of service. 20 turbines.
1989	Hale Wind	01/02/20	01/03/20	0.08	Partial feeder out of service for repair. Six turbines affected.
1990	Cunningham 4	01/03/20	01/03/20	0.23	Repair Oil Accumulation on Oil Tank
1991	Harrington 2	01/05/20	01/06/20	0.65	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.
1992	Tolk 1	01/05/20	01/06/20	0.33	Maintenance outage to get boiler tube samples, Tolk management cancelled this outage waiting until spring mini to take samples.
1993	Maddox 2	01/06/20	01/06/20	0.15	Adjust Inlet Guide Vanes
1994	Harrington 3	01/07/20	01/09/20	1.62	Unit was removed from service to make repairs to a water wall tube leak on the 5th floor #3 corner
1995	Maddox 1	01/07/20	01/07/20	0.13	1B Boiler Feed Pump: Repair Inlet Oil Line
1996	Maddox 1	01/07/20	01/07/20	0.05	1B Boiler Feed Pump: Adjust Lube Oil Pump
1997	Cunningham 4	01/08/20	01/11/20	3.46	Thrust Bearing Thermocouple leaking oil
1998	Hale Wind	01/09/20	01/09/20	0.01	Open breaker that will take three feeders out while T91 is taken off of the feeder. At the end of this derate, approximately an hour, we will close the breaker and T91 and T141 will be disconnected and tested while the others will be placed in run.
1999	Hale Wind	01/09/20	01/09/20	0.00	Open breaker which will take three feeders offline so we can tie T97 and T141 back into feeder. At the end of this derate the park will again have the potential for 474 MW's.
2000	Harrington 3	01/11/20	01/14/20	3.32	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.
2001	Tolk 2	01/13/20	01/16/20	2.84	Scraper Slag Conveyor derailed - clean out/inspection/repairs
2002	Cunningham 3	01/14/20	01/14/20	0.23	Repair Ignitor
2003	Jones 2	01/14/20	01/18/20	3.45	Boiler Tube Leak
2004	Cunningham 4	01/15/20	01/18/20	3.33	Torque Oil leak around thrust bearing probe.
2005	Harrington 1	01/16/20	01/16/20	0.01	Unit was derated due to high opacity readings. Unsure of any issues
2006	Harrington 1	01/17/20	01/17/20	0.01	Unit was derated due to high opacity readings. Unsure of any problems
2007	Cunningham 1	01/18/20	02/29/20	42.35	Planned 10 week outage
2008	Harrington 1	01/18/20	01/18/20	0.03	Boiler tripped on loss off fuel (natural 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.
2009	Jones 3	01/18/20	01/22/20	4.28	Turning gear issues
2010	Hale Wind	01/18/20	01/24/20	6.33	Transmission Line failure.
2011	Maddox 1	01/19/20	01/24/20	5.09	Boiler Skin Leak
2012	Jones 1	01/20/20	01/20/20	0.21	Derate to make up lagoon level
2013	Jones 2	01/20/20	01/21/20	1.21	Boiler Water Chemistry Problems
2014	Jones 2	01/20/20	01/20/20	0.23	Due to water make up for lagoon
2015	Maddox 2	01/21/20	01/21/20	0.27	Lube Oil Cooler Logic Controls Change
2016	Harrington 1	01/22/20	01/24/20	2.17	Unit was shut down to make repairs to the Main Feedpump recirculation line safety and manual block valve.

Southwestern Public Service Company

Power Plant Maintenance Information

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Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
2017	Harrington 1	01/22/20	01/22/20	0.02	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.
2018	Harrington 3	01/22/20	01/23/20	0.15	The unit was derated due to A Mill hot air damper not controlling mill discharge temperature.
2019	Jones 2	01/22/20	01/23/20	0.38	Boiler Water Chemistry Problems
2020	Maddox 2	01/22/20	01/22/20	0.09	Lube Oil Cooler Logic Controls Change
2021	Jones 2	01/24/20	01/24/20	0.07	Boiler Feed Pump Fluid Drive Bearings Getting Hot
2022	Hale Wind	01/24/20	01/26/20	0.24	Restarting farm after outage.
2023	Jones 1	01/25/20	01/25/20	0.24	Derate to make up lagoon level
2024	Jones 2	01/25/20	01/25/20	0.24	Derate to make up lagoon level
2025	Cunningham 4	01/26/20	01/28/20	1.59	Hydraulic skid in alarm. Not Ready to start.
2026	Harrington 1	01/26/20	01/26/20	0.01	Operator tripped the unit during a start up
2027	Jones 1	01/27/20	01/27/20	0.27	Derate to make up lagoon level
2028	Jones 2	01/27/20	01/27/20	0.06	Derate to make up lagoon level
2029	Jones 1	01/30/20	01/30/20	0.10	Loss of West Forced Draft Fan
2030	Jones 1	01/31/20	02/01/20	0.38	Derate to make up lagoon level
2031	Jones 2	01/31/20	02/01/20	0.38	Derate to make up lagoon level
2032	Harrington 3	02/01/20	02/01/20	0.09	Unit was derated because A coal mill hot air damper is not operating as designed. B coal mill is also out of service.
2033	Maddox 2	02/01/20	02/05/20	4.31	Bearing #5 Thermocouple
2034	Plant X 1	02/02/20	02/07/20	4.67	Turbine inspection
2035	Hale Wind	02/04/20	02/04/20	0.12	Failure of cap bank caused damage to a breaker feeding the main power transformer.
2036	Harrington 1	02/05/20	02/05/20	0.04	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
2037	Plant X 2	02/06/20	02/07/20	1.14	Condenser tube leak on Plant X 1. Unit required to be offline to repair Plant X 1 condenser tube leak as both units share a common circ. return line.
2038	Maddox 1	02/07/20	02/28/20	3.15	Boiler Skin Leak, 2nd Level
2039	Nichols 1	02/07/20	02/07/20	0.00	Planned derate to 105
2040	Nichols 1	02/07/20	02/13/20	5.84	Nichols 1 planned outage
2041	Tolk 1	02/08/20	02/09/20	1.19	Tube leak on lower water wall
2042	Harrington 1	02/10/20	02/13/20	2.26	Unit is derated due to the main feedpump not being available. The feedpump recirculation line safety valve failed
2043	Maddox 1	02/13/20	02/13/20	0.32	T1-C Fieldbus Module Modular Burnt Up. Unit tripped.
2044	Nichols 1	02/13/20	02/14/20	0.02	Planned derate to 105
2045	Plant X 1	02/13/20	06/18/20	126.67	Unable to maintain proper condensate chemistry
2046	Plant X 2	02/13/20	02/25/20	11.54	Unable to maintain acceptable water chemistry
2047	Hale Wind	02/13/20	02/26/20	1.13	At a minimum there will be 5 turbines out of service on a daily basis due to required services by Vestas.
2048	Nichols 1	02/14/20	02/14/20	0.07	Nichols 1 is in planned outage for "No Load" setting on turbine control valves.
2049	Nichols 1	02/14/20	02/24/20	9.78	Nichols 1 in planned outage-balance issues
2050	Jones 1	02/15/20	02/16/20	0.37	Derate to make up lagoon level
2051	Jones 2	02/15/20	02/16/20	0.37	Derate to make up lagoon level
2052	Jones 1	02/17/20	02/18/20	0.34	Derate to make up lagoon level
2053	Jones 2	02/17/20	02/18/20	0.34	Derate to make up lagoon level
2054	Cunningham 3	02/18/20	02/22/20	3.26	Generator Air Filters bad
2055	Jones 1	02/18/20	02/19/20	0.21	Derate to make up lagoon level
2056	Jones 2	02/18/20	02/19/20	0.21	Derate to make up lagoon level
2057	Harrington 1	02/19/20	02/19/20	0.35	The unit was derated because we were unable to get the #3 High Pressure Heater inlet valve open. This caused us to have to operate on the startup feedwater valve.
2058	Nichols 2	02/21/20	02/21/20	0.31	Nichols unit 2 is in unplanned forced outage to work on wind box furnace transmitter.
2059	Nichols 2	02/21/20	02/22/20	0.19	Nichols 2 unit is in a unplanned forced outage due to 45lb gas regulator issues that need to be repaired.
2060	Cunningham 2	02/22/20	03/06/20	12.54	Boiler Tube Leak, East side, Furnace Waterwall
2061	Harrington 2	02/22/20	05/08/20	76.58	Major Outage
2062	Jones 1	02/22/20	02/23/20	0.29	Derate to make up lagoon level
2063	Jones 2	02/22/20	02/23/20	0.29	Derate to make up lagoon level
2064	Jones 1	02/23/20	02/24/20	0.60	Repair hot spot on bottom boiler door on West side
2065	Nichols 1	02/24/20	02/25/20	0.02	Planned derate to 105
2066	Jones 3	02/25/20	02/28/20	2.57	Gas calibrations
2067	Nichols 1	02/25/20	03/06/20	10.05	Nichols 1 is in planned outage for vibration issues.
2068	Nichols 3	02/26/20	02/28/20	1.92	Nichols unit 3 will come offline to repair boiler tube leak
2069	Hale Wind	02/26/20	04/28/20	4.27	Required derate for service on turbines.
2070	Cunningham 3	02/28/20	02/28/20	0.15	L915 Low Gas Pressure
2071	Cunningham 4	02/28/20	02/28/20	0.18	L915 Gas Pressure Low
2072	Jones 4	02/29/20	03/30/20	29.32	Repair the silencers in the stack
2073	Tolk 1	02/29/20	04/07/20	37.59	Boiler Outage - tube replacement work
2074	Cunningham 4	03/01/20	03/01/20	0.24	Flashback Temps 4A and 4B
2075	Cunningham 4	03/01/20	03/01/20	0.03	Unit Tripped, flashback
2076	Jones 2	03/01/20	03/01/20	0.39	Intercept valve not opening
2077	Maddox 2	03/01/20	03/02/20	1.23	Unit Tripped
2078	Plant X 3	03/02/20	12/31/20	304.00	Unit retirement approval requested due to discovery work on boiler
2079	Cunningham 4	03/04/20	07/02/20	114.82	86-1, 86-2 caused unit to trip
2080	Tolk 2	03/04/20	03/08/20	3.18	Superheat tube leak
2081	Nichols 1	03/06/20	03/17/20	10.88	Nichols 1 is in planned outage for vibration issues.
2082	Nichols 1	03/06/20	03/06/20	0.00	Planned derate to 105
2083	Cunningham 3	03/07/20	03/13/20	5.48	Arc Flash installation for breakers
2084	Plant X 2	03/08/20	03/13/20	4.60	Repair steam leak on turbine steam driven emergency oil pump
2085	Nichols 3	03/10/20	03/14/20	4.14	Nichols 3 is in a maintenance outage for boiler tube repair
2086	Harrington 1	03/11/20	03/12/20	0.71	The unit was derated because of excessive water discovered in the lube oil system.

Southwestern Public Service Company

Power Plant Maintenance Information

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2087	Harrington 1	03/12/20	03/21/20	8.46	The unit was removed from service because the Main Feedpump would not isolate on line to make repairs to the break down bushings on the pump.
2088	Jones 2	03/12/20	03/12/20	0.02	Vacuum Low, got Vacuum Pretrip Alarm
2089	Cunningham 2	03/13/20	05/17/20	65.26	Outage: Boiler Tube Replacement
2090	Jones 1	03/13/20	03/13/20	0.07	Came off to investigate the #4 bearing temperature being erratic
2091	Jones 1	03/15/20	03/15/20	0.28	Derate to make up lagoon level
2092	Jones 2	03/15/20	03/15/20	0.28	Derate to make up lagoon level
2093	Jones 2	03/16/20	03/17/20	0.04	Condenser plugging and high back pressure
2094	Jones 1	03/17/20	03/17/20	0.27	Derate to make up lagoon level
2095	Jones 1	03/17/20	03/18/20	0.28	Derate to make up lagoon level
2096	Jones 2	03/17/20	03/17/20	0.04	Condenser plugging and high back pressure
2097	Jones 2	03/17/20	03/18/20	0.28	Derate to make up lagoon level
2098	Jones 2	03/17/20	03/17/20	0.27	Derate to make up lagoon level
2099	Jones 2	03/17/20	03/18/20	0.05	Condenser plugging and high back pressure
2100	Nichols 1	03/17/20	03/18/20	0.02	Planned derate to 105
2101	Maddox 3	03/18/20	03/18/20	0.27	Auxiliary Gear Oil Leak
2102	Nichols 1	03/18/20	03/19/20	0.83	Nichols 1 is in planned outage for vibration issues.
2103	Plant X 4	03/18/20	03/18/20	0.02	De-rated due to loss of one-half of the fans on the Main Power Transformer
2104	Nichols 1	03/19/20	03/20/20	0.03	Planned derate to 105
2105	Jones 1	03/20/20	03/20/20	0.66	Circulating water line leak
2106	Nichols 1	03/20/20	03/24/20	3.58	Nichols 1 is in a planned outage extension.
2107	Jones 2	03/21/20	03/28/20	7.00	Clean the condenser
2108	Plant X 4	03/21/20	03/24/20	0.16	Normal Source Transformer out of service for Inspection, Start-Up Transformer hi amp alarms under full load
2109	Harrington 1	03/24/20	03/24/20	0.26	Unit missed on line and min load times due to issues with hot well level. We feel we have issues with the make up valving or piping from the storage tanks.
2110	Harrington 1	03/24/20	03/25/20	0.29	Unit is derated due to the Main Boiler Feed Pump is not available. The Gland seal water system is not operational.
2111	Nichols 1	03/24/20	03/27/20	0.07	Planned derate to 105
2112	Plant X 4	03/24/20	04/01/20	0.21	Normal source transformer out of service. Start-up transformer alarms with high amps at loads above 185 MW net
2113	Nichols 1	03/27/20	03/31/20	3.50	Nichols 1 is in an outage extension for vibration issues
2114	Plant X 4	03/28/20	04/01/20	4.34	Turbine oil trip issue
2115	Plant X 4	03/28/20	03/28/20	0.40	Reheat valves shut do to hydraulic oil flow issue
2116	Harrington 1	03/29/20	03/29/20	0.10	Unit was derated because the Main Boiler Feed Pump was not available. The Feed pump has gland seal water temperature issues.
2117	Harrington 3	03/29/20	03/29/20	0.10	The unit was derated due to C mill not being available. An electronic board failed.
2118	Jones 1	03/30/20	03/31/20	0.35	Derate to make up lagoon level
2119	Jones 2	03/30/20	03/31/20	0.35	Derate to make up lagoon level
2120	Jones 4	03/30/20	03/30/20	0.01	Test Run after installing the silencers in the stack
2121	Tolk 2	03/30/20	04/01/20	1.88	Repair tube leak in reheat section of boiler
2122	Jones 2	03/31/20	04/03/20	3.03	Hot spot on boiler camera port
2123	Nichols 1	03/31/20	04/02/20	0.04	Planned derate to 105
2124	Plant X 4	04/01/20	04/04/20	2.37	Inspect and repair boiler hot spots.
2125	Nichols 1	04/02/20	04/03/20	0.03	Planned derate to 105
2126	Maddox 2	04/05/20	04/09/20	3.75	Vibration issues
2127	Jones 1	04/07/20	04/08/20	0.21	Derate to make up lagoon level
2128	Jones 2	04/07/20	04/08/20	0.21	Derate to make up lagoon level
2129	Plant X 4	04/07/20	04/09/20	1.78	Inspect reheat steam safety valve
2130	Jones 1	04/08/20	04/09/20	0.17	Derate to make up lagoon level
2131	Jones 2	04/08/20	04/09/20	0.17	Derate to make up lagoon level
2132	Harrington 3	04/09/20	05/29/20	13.20	C Coal Mill pillow block failed. Unit is derated due to not having the necessary coal mills to operate at full load. B mills is out of service to replace a failed bowl.
2133	Maddox 2	04/09/20	04/30/20	20.37	Gas Turbine Stack Work
2134	Plant X 2	04/11/20	04/30/20	18.67	Inspect boiler safety valves per boiler code
2135	Jones 4	04/12/20	04/13/20	0.31	Replacing Oil Filters
2136	Plant X 4	04/15/20	04/29/20	0.37	Normal source transformer out of service. Start-up transformer alarms with high amps at loads above 185 MW net
2137	Jones 2	04/16/20	04/17/20	1.02	Waterwall tube leak on B corner
2138	Nichols 3	04/16/20	04/19/20	3.28	Nichols Unit 3 is in forced outage to repair boiler tube leak.
2139	Tolk 1	04/17/20	04/19/20	1.60	Tube leak - Wall
2140	Tolk 2	04/17/20	04/17/20	0.25	Replace bearing: Main Turbine AC (alternating current) Bearing Oil Pump
2141	Jones 1	04/19/20	04/21/20	0.97	Derate to make up lagoon level
2142	Jones 2	04/19/20	04/20/20	0.35	Derate to make up lagoon level
2143	Jones 2	04/20/20	04/21/20	0.24	Derate to make up lagoon level
2144	Jones 1	04/21/20	04/22/20	0.37	Derate to make up lagoon level
2145	Jones 2	04/21/20	04/22/20	0.37	Derate to make up lagoon level
2146	Jones 1	04/22/20	04/23/20	0.29	Derate to make up lagoon level
2147	Jones 2	04/22/20	04/23/20	0.29	Derate to make up lagoon level
2148	Tolk 1	04/22/20	04/27/20	5.55	Tube leak on 11-12 floor, wall tube
2149	Jones 1	04/23/20	04/24/20	0.35	Derate to make up lagoon level
2150	Jones 2	04/23/20	04/24/20	0.35	Derate to make up lagoon level
2151	Harrington 1	04/25/20	04/25/20	0.03	Turbine tripped on high drum level. Drum level went high when operator was swapping from the startup valve and on the #3 heater valves.
2152	Jones 1	04/26/20	04/26/20	0.26	Derate to make up lagoon level
2153	Jones 2	04/26/20	04/26/20	0.26	Derate to make up lagoon level
2154	Jones 1	04/29/20	05/01/20	0.37	Gas supply issues with Power Tex gas line maintenance
2155	Jones 1	04/29/20	04/29/20	0.26	Weld leak on continuous blowdown line
2156	Jones 2	04/29/20	05/01/20	0.37	Gas supply issues with Power Tex gas line maintenance

Southwestern Public Service Company

Power Plant Maintenance Information

(a) Total Maintenance by Operating Unit for Four Years Prior to the Test Year Period by Month (2018-Present)

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2157	Jones 3	04/29/20	05/02/20	2.21	Gas supply issues with Power Tex gas line maintenance
2158	Nichols 1	04/29/20	04/29/20	0.01	Nichols unit 1 has emission testing
2159	Nichols 3	04/29/20	04/29/20	0.02	Nichols Unit 3 tripped due to high drum level
2160	Plant X 4	04/29/20	05/05/20	0.63	Unable to maintain feedwater supply to boiler for max load
2161	Jones 1	05/02/20	05/02/20	0.01	High backpressure on unit
2162	Jones 2	05/02/20	05/03/20	1.43	Waterwall tube leak on B corner
2163	Plant X 2	05/02/20	05/02/20	0.24	Leak on Circulating Water Line
2164	Maddox 2	05/05/20	05/08/20	3.38	Transformer and Generator Relay work
2165	Maddox 3	05/05/20	05/08/20	3.45	Change differential relays
2166	Plant X 4	05/05/20	05/31/20	0.68	Normal source transformer out of service. Start-up transformer alarms with high amps at loads above 185 MW
2167	Harrington 1	05/06/20	05/16/20	9.20	Unit was removed from service to prevent a particulate matter exceedance
2168	Plant X 4	05/06/20	05/06/20	0.10	During an inspection of the main power transformer fans, the fans tripped due to an electrical issue on the fans.
2169	Harrington 2	05/08/20	05/18/20	2.50	Unit was derated to allow the seasoning of new bags in 7 compartments
2170	Cunningham 3	05/10/20	05/16/20	6.09	Generator Bellows Inspection Repairs
2171	Jones 4	05/10/20	05/11/20	0.91	Gas Calibration
2172	Harrington 2	05/12/20	05/12/20	0.49	Unit was removed from service to make a balance move on the Low Pressure turbine and exciter.
2173	Jones 3	05/12/20	05/13/20	0.64	Gas Calibration
2174	Jones 4	05/12/20	05/12/20	0.15	Gas Calibration
2175	Maddox 2	05/12/20	05/15/20	2.89	5 bearing temperature high on startup
2176	Harrington 2	05/13/20	05/13/20	0.10	Unit was derated when the West Induced Draft Lube Oil pressure trip malfunctioned.
2177	Tolk 2	05/15/20	05/22/20	6.81	Inspection of lower loops of reheat tubes and heat exchanger cleaning
2178	Cunningham 2	05/17/20	06/09/20	22.52	Outage Extension: Boiler Tube Replacement
2179	Harrington 1	05/18/20	05/24/20	6.05	Unit was removed from service after Preventive Maintenance testing because the unit is environmentally out of compliance.
2180	Harrington 2	05/18/20	05/20/20	0.32	Unit is derated due to the #2 and #3 High Pressure heaters not available for service. #1 Heater is not available due to #2 being out of service.
2181	Jones 1	05/18/20	05/18/20	0.03	High backpressure on unit
2182	Jones 1	05/19/20	05/19/20	0.03	High backpressure on unit
2183	Harrington 2	05/20/20	05/21/20	1.42	Unit was removed from service to make repairs to the #2 and #3 High Pressure heater valves.
2184	Maddox 2	05/20/20	05/20/20	0.11	Disc Cavity Thermocouple Replacement
2185	Maddox 1	05/21/20	05/29/20	8.03	Boiler Inspection
2186	Harrington 2	05/22/20	05/27/20	0.87	Unit is derated because the new Drum and Reheat safeties were lifting at pressures higher than 2050 drum pressure. Original scope of work from the major outage.
2187	Harrington 1	05/24/20	06/01/20	7.69	Planned Mini outage to clean the Electrostatic Precipitator
2188	Jones 1	05/24/20	05/24/20	0.03	High backpressure on unit
2189	Tolk 1	05/25/20	05/28/20	3.22	Water wall tube leak water standing on 12th floor buck stay on 4 corner
2190	Jones 1	05/26/20	05/26/20	0.02	High backpressure on unit
2191	Jones 1	05/29/20	06/07/20	8.54	Clean Condenser and Boiler Repairs
2192	Jones 1	05/29/20	05/29/20	0.05	High backpressure on unit
2193	Maddox 1	05/30/20	06/01/20	0.84	Cooling Tower East Side Cooling Plugged
2194	Maddox 1	05/30/20	05/30/20	0.14	North Turbine Throttle Valve Stuck
2195	Plant X 4	05/31/20	06/09/20	8.97	To repair Main Power Transformer
2196	Harrington 2	06/01/20	06/01/20	0.04	Manual Trip turbine on startup - Super Steam Temperature dropped 300 degrees
2197	Maddox 1	06/01/20	06/16/20	7.40	Back Pressure High due to Cooling Tower East side
2198	Nichols 1	06/01/20	06/03/20	1.58	Maintenance Outage to repair Feedwater Heater check valves and condenser maintenance. Prepare the unit for summer run.
2199	Maddox 2	06/02/20	06/02/20	0.14	AC (alternating current) Lube Oil Motor, Inspect
2200	Harrington 2	06/03/20	06/04/20	0.38	Unit was derated due to the loss of the Center Main Circulating Pump. The pin for the retaining nut on the thrust bearing sleeve failed. We also have the south pump out of service for a broken shaft.
2201	Jones 3	06/04/20	06/04/20	0.01	Took Evaporator Coiling off due to running out water
2202	Maddox 2	06/06/20	06/06/20	0.04	Blade Path Temperature
2203	Maddox 1	06/10/20	06/18/20	7.66	Electrohydraulic Control System
2204	Nichols 1	06/10/20	06/10/20	0.06	Boiler Electronic Valve Testing safety valves
2205	Plant X 4	06/10/20	06/11/20	0.16	Reheat Safety Malfunctioned, to get it to close back we had to de-rate it
2206	Nichols 2	06/14/20	06/18/20	3.65	Maintenance Outage to replace condenser outlet expansion joints and prepare for summer
2207	Cunningham 3	06/17/20	06/17/20	0.16	Vacuum leak
2208	Jones 2	06/18/20	06/19/20	1.62	Waterwall tube leak on B corner
2209	Cunningham 2	06/19/20	08/04/20	15.79	North Boiler Feed Pump Outboard Packing
2210	Harrington 1	06/19/20	06/19/20	0.04	Unit was derated due to 2 coal mill/feeders being out of service for repairs. B mill feeder had a speed card fail, and C mill motor failed.
2211	Maddox 1	06/20/20	06/20/20	0.11	Hydrogen Cooling System
2212	Harrington 2	06/22/20	06/22/20	0.07	Unit was derated due to the West Forced Draft fan tripping. The fan had a oil temperature switch that was not calibrated correctly.
2213	Jones 2	06/22/20	06/24/20	1.71	Loss of West auxiliary circulating pump motor.
2214	Nichols 2	06/22/20	07/02/20	9.70	Forced outage due to tube leak in reheat section
2215	Harrington 3	06/24/20	06/25/20	0.70	Unit was removed from service to make repairs to an external water wall tube leak.
2216	Plant X 1	06/24/20	06/24/20	0.04	Lost boiler due to high furnace pressure, issues with Forced Draft fan control
2217	Cunningham 2	06/25/20	06/28/20	2.23	Inspect North Boiler Feed Pump/Repack South Boiler Feed Pump
2218	Jones 3	06/25/20	06/25/20	0.19	Stack Inspection
2219	Cunningham 3	06/26/20	06/26/20	0.04	Cunningham 3: Move C4 Starting Motor
2220	Cunningham 2	06/28/20	06/29/20	1.26	South Boiler Feed Pump Repack Packing
2221	Jones 1	07/01/20	07/01/20	0.01	Gas firing valve not able to maintain firing rate at full load
2222	Jones 1	07/02/20	07/02/20	0.01	50# Gas header not maintaining pressure at full load
2223	Jones 1	07/03/20	07/03/20	0.01	50# Gas header not maintaining pressure at full load
2224	Maddox 2	07/03/20	07/07/20	1.23	Condensate Tanks Low
2225	Jones 1	07/04/20	07/05/20	0.01	50# Gas header not maintaining pressure at full load
2226	Harrington 2	07/05/20	07/09/20	3.90	Unit was removed from service to make repairs to a water wall tube leak on the floor slope.

Southwestern Public Service Company

Power Plant Maintenance Information

(a) Total Maintenance by Operating Unit for Four Years Prior to the Test Year Period by Month (2018-Present)

Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
2227	Harrington 2	07/05/20	07/05/20	0.05	Unit was derated due high baghouse Differential Pressure. The unit had 2 Baghouse compartments out of service due to failed bags
2228	Jones 1	07/05/20	07/06/20	0.01	50# Gas header not maintaining pressure at full load
2229	Nichols 1	07/05/20	07/06/20	0.16	Turbine high thrust alarm came in at a trip level
2230	Jones 1	07/06/20	07/06/20	0.14	Make up condensate to storage tanks
2231	Jones 1	07/06/20	07/06/20	0.00	Limit Torque Active Alarm on the East Forced Draft Fan Variable Frequency Drive
2232	Jones 2	07/06/20	07/06/20	0.14	Make up condensate to storage tanks
2233	Nichols 3	07/06/20	07/10/20	3.89	Boiler tube leak unable to maintain hotwell
2234	Tolk 1	07/06/20	07/06/20	0.11	PPS failed (Power system stabilizer)
2235	Tolk 1	07/06/20	07/06/20	0.15	50# Gas regulator leak on Tolk 1
2236	Jones 1	07/07/20	07/07/20	0.19	Make up condensate to storage tanks
2237	Jones 2	07/07/20	07/07/20	0.19	Make up condensate to storage tanks
2238	Plant X 4	07/09/20	09/03/20	55.56	Switchyard circuit breaker-external fault, causing damage to Plant X4 Generator step-up transformers (GSU).
2239	Jones 3	07/11/20	07/17/20	5.32	Unit tripped on Blade Path spread
2240	Nichols 3	07/11/20	07/11/20	0.01	1st row burners controls failed
2241	Maddox 3	07/14/20	07/16/20	1.94	Unit tripped on high oil temperature
2242	Jones 1	07/15/20	07/15/20	0.00	West Forced Draft Fan motor windings temperature high
2243	Maddox 2	07/15/20	07/21/20	5.48	52G failed to open
2244	Tolk 1	07/16/20	07/18/20	1.47	Unit offline due to abnormally high water chemistry issues suspect condenser tube leak
2245	Tolk 1	07/16/20	07/16/20	0.04	Unit trip on high drum level excursion
2246	Harrington 1	07/17/20	07/18/20	0.62	Unit was removed from service to replace a manhole cover gasket on the Deaerator Heater upper tank.
2247	Jones 3	07/17/20	07/17/20	0.02	Tuning by Siemens after replacing one Pilot fuel nozzle
2248	Jones 3	07/17/20	07/17/20	0.04	While removing the Lockout Tagout on the SEE (Static Excitation Equipment) and SFC (Static Frequency Converter) and unlocking the breaker the unit tripped.
2249	Nichols 3	07/17/20	07/19/20	1.71	While cycling steam drum north door gasket failed
2250	Cunningham 2	07/18/20	07/29/20	11.04	Water Supply not keeping up. Boiler Tube Leak Suspected
2251	Jones 2	07/18/20	07/21/20	3.61	Waterwall tube leak on B corner
2252	Plant X 2	07/19/20	07/22/20	2.61	Unable to maintain feedwater level
2253	Harrington 1	07/20/20	07/20/20	0.61	Unit experienced a Startup Failure due to the Startup Boiler Feedpump Motor failure. We had to re-gear to startup with the Main Boiler Feedpump.
2254	Maddox 2	07/23/20	07/23/20	0.05	Flame Failed to Light
2255	Jones 1	07/26/20	07/27/20	0.52	Water treatment Ultrafiltration (UF) B had a pipe rupture
2256	Jones 2	07/26/20	07/27/20	0.52	Water treatment Ultrafiltration (UF) B had a pipe rupture
2257	Harrington 1	07/27/20	07/27/20	0.04	Unit experienced an Master Fuel Trip-Flame Failure Trip. Unit was derating to remove the furnace from coal to gas when Electrostatic Precipitator issues were taking place.
2258	Harrington 1	07/27/20	07/27/20	0.05	Unit was derated due to high opacity readings and to prevent opacity exceedances.
2259	Harrington 1	07/27/20	07/27/20	0.01	Unit was derated to prevent opacity issues while the East Electrostatic Precipitator rappers were inoperable.
2260	Nichols 3	07/27/20	07/28/20	0.32	#1 Control valve stem broke
2261	Harrington 1	07/28/20	07/28/20	0.02	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 feedpump because the Start-Up feedpump is not available.
2262	Harrington 1	07/28/20	07/28/20	0.01	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 feedpump because the Start-Up feedpump was unavailable.
2263	Jones 1	07/28/20	07/28/20	0.00	East Forced Draft Fan alarm showing "Forced Limit Reached"
2264	Maddox 2	07/28/20	07/30/20	0.41	Injection Water Source
2265	Nichols 3	07/28/20	07/31/20	2.69	#1 Control valve stem broke
2266	Harrington 2	07/29/20	07/30/20	0.21	Unit was derated to replace failed bags in 3 Baghouse compartments. West Induced Draft tripped causing the East Induced Draft to ramp up causing bag damage due to high Baghouse Differential Pressure.
2267	Harrington 3	07/29/20	07/29/20	0.10	Unit was derated to take an Induced Draft fan out of service to make repairs to a coupling guard and fix a pressure transmitter oil leak.
2268	Jones 2	07/29/20	07/29/20	0.03	East Boiler Feed Pump Oil Leak
2269	Nichols 2	07/29/20	07/29/20	0.01	Derate to hold boiler pressure to Electronic Valve Testing boiler Superheat outlet PRV
2270	Plant X 1	07/29/20	08/04/20	0.73	Operating lower unit Megawatt due to boiler tuning issues
2271	Cunningham 2	07/30/20	08/03/20	3.95	Boiler Furnace: A Corner
2272	Cunningham 3	07/31/20	07/31/20	0.17	Inspect Gas Metering
2273	Jones 2	07/31/20	07/31/20	0.18	Replace the moog valve to the Left Side Governor Valve
2274	Maddox 1	07/31/20	08/06/20	3.14	Primary Inlet Section Tube Leak
2275	Plant X 2	08/01/20	08/04/20	2.64	Unable to maintain feedwater level
2276	Jones 1	08/02/20	08/02/20	0.09	Silicon Dioxide (SIO2) running high on circulating water causing us to have high blowdown rates and low lagoon levels.
2277	Jones 2	08/02/20	08/02/20	0.09	Silicon Dioxide (SIO2) running high on circulating water causing us to have high blowdown rates and low lagoon levels.
2278	Plant X 1	08/02/20	08/07/20	5.15	Turbine bearing vibration issues on #1 bearing
2279	Cunningham 2	08/04/20	08/06/20	2.10	Boiler Furnace: Skin
2280	Cunningham 2	08/06/20	08/07/20	1.28	Water Supply Makeup not Keeping up. Suspect Boiler Tube Leak
2281	Cunningham 1	08/07/20	08/11/20	3.42	Boiler Tube Leak Suspected
2282	Cunningham 4	08/07/20	08/07/20	0.13	Unit tripped on Loss of Lube Oil Pressure
2283	Maddox 2	08/07/20	08/11/20	3.53	Generator breaker failed to open on shut down.
2284	Harrington 3	08/09/20	08/09/20	0.01	Unit was removed from service to transfer turbine valve control from the pilot valve to the governor valves.
2285	Plant X 2	08/09/20	08/09/20	0.28	West Forced Draft fan breaker failed. Maximum of 3 failed starts in a 24 hour period met.
2286	Jones 2	08/10/20	08/12/20	0.05	Reached max condensate flow on the transmitter causing Deaerator level control issues
2287	Plant X 1	08/10/20	08/10/20	0.31	Low pressure water seals appear to be leaking from the turbine.
2288	Nichols 3	08/11/20	08/11/20	0.07	Generator step-up transformers (GSU) lost 3 banks of cooling fans and pumps to a contactor failure.
2289	Plant X 1	08/11/20	08/12/20	1.05	Forced Draft fan trip

Southwestern Public Service Company

Power Plant Maintenance Information

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2290	Tolk 2	08/12/20	08/15/20	2.97	Circulating water system leak on cooling tow header.
2291	Cunningham 3	08/13/20	08/21/20	1.19	Wet Compression Unavailable Due to Reverse Osmosis (RO)
2292	Cunningham 4	08/13/20	08/21/20	1.00	Wet Compression Unavailable Due to Reverse Osmosis (RO)
2293	Harrington 1	08/14/20	08/14/20	0.00	Unit was derated to prevent opacity exceedances. We had a storm blow thru that contributed to this event.
2294	Cunningham 3	08/15/20	08/15/20	0.14	Unit tripped to Lower Explosive Limit (LEL) reaching limit
2295	Cunningham 3	08/16/20	08/17/20	0.60	Repair Gas Leaks
2296	Maddox 1	08/16/20	08/17/20	0.23	Condensate and Boiler Feed Pump 4160V Breakers
2297	Plant X 1	08/16/20	08/24/20	7.66	Boiler tube leak
2298	Cunningham 4	08/17/20	08/24/20	6.46	Unit Tripped on Gas Low Pressure
2299	Harrington 1	08/18/20	08/18/20	0.03	Unit was derated to prevent opacity exceedances.
2300	Maddox 1	08/18/20	08/19/20	0.10	Main Transformer Cooling Fans and Oil Pump
2301	Maddox 1	08/19/20	08/19/20	0.00	East Condensate Pump 4160V Breaker, Loss of Power
2302	Cunningham 2	08/21/20	09/01/20	3.77	Boiler Furnace Door Leaks, Fan Room
2303	Cunningham 2	08/22/20	08/28/20	5.25	Boiler Furnace Door Repair
2304	Maddox 1	08/22/20	08/26/20	1.86	1A Boiler Feed Pump Variable Frequency Drive
2305	Tolk 2	08/22/20	08/22/20	0.03	Flame failure trip
2306	Harrington 2	08/24/20	08/24/20	0.04	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.
2307	Hale Wind	08/24/20	08/28/20	4.46	Outage needed to improve transmission line where it has failed twice at the TUCO substation.
2308	Jones 1	08/27/20	08/30/20	2.83	Repair crack in the Cooling Tower Distribution Header in the hot water deck
2309	Tolk 2	08/28/20	08/29/20	0.17	Measurements for new non-segmented buss installation for synchronous condenser
2310	Harrington 1	08/29/20	09/17/20	4.67	Unit was derated due to storm damage to 8 cooling tower fans.
2311	Harrington 1	08/29/20	08/29/20	0.07	Unit was derated to prevent opacity exceedances. Opacity increased when a heavy rain storm blew thru.
2312	Hale Wind	08/29/20	09/01/20	0.34	Following a planned outage, Hale Wind has 15 turbines down due to various alarms after trying to start back up.
2313	Harrington 2	08/30/20	09/04/20	4.41	Unit was removed from service to make repairs to a re-heater tube leak.
2314	Nichols 1	08/30/20	08/30/20	0.16	Unit tripped due Transmission Operations storm restoration switching in the substation.
2315	Maddox 3	09/01/20	09/18/20	17.23	Check Cooling Pump and Calibrate
2316	Tolk 2	09/01/20	09/04/20	2.70	Reheat tube leak repairs
2317	Jones 3	09/02/20	09/03/20	0.81	Unit failed the start on blade path spread
2318	Jones 1	09/04/20	09/04/20	0.07	Loss of Main Power Transformer Cooling pumps and fans
2319	Jones 3	09/04/20	09/04/20	0.14	Unit had failed start for blade path spread
2320	Cunningham 3	09/05/20	09/05/20	0.05	Breaker 3a100 Tripped
2321	Cunningham 4	09/05/20	09/05/20	0.06	Breaker 3a100 tripped
2322	Tolk 2	09/05/20	09/18/20	12.80	Start-up Motor Driven Feed Pump 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
2323	Cunningham 2	09/08/20	09/15/20	2.56	Boiler Furnace Door Hot Spot
2324	Cunningham 4	09/08/20	09/08/20	0.35	Lube Oil Cooler Belts Loose
2325	Jones 2	09/08/20	09/12/20	4.00	Waterwall tube leak on B corner/clean condenser
2326	Plant X 2	09/08/20	09/11/20	3.02	Air Preheater bearing replacement
2327	Harrington 2	09/09/20	09/09/20	0.13	Unit had a start up failure due to the turbine differential expansion readings not being with in the set limits.
2328	Cunningham 2	09/10/20	09/15/20	4.76	Boiler Furnace Rear Water Wall Tube Leak
2329	Maddox 2	09/10/20	09/10/20	0.13	Bleed Valves Won't Open
2330	Nichols 1	09/14/20	09/17/20	3.12	Turbine #2 bearing oil seal leak
2331	Tolk 1	09/15/20	11/10/20	56.04	Boiler Inspection, Capital: Synchronous Condenser Conversion ADDED: Swapping back over from Synchronous Condenser To Couple back to Turbine
2332	Maddox 2	09/16/20	09/16/20	0.25	Change Generator Air Filters
2333	Cunningham 2	09/17/20	12/02/20	26.15	South Boiler Feed Pump Packing Leak
2334	Harrington 2	09/17/20	09/17/20	0.21	The turbine tripped when the turbine thrust reached the 30 mil trip point.
2335	Jones 4	09/21/20	09/22/20	0.64	Gas Chromatograph Calibration
2336	Maddox 1	09/21/20	10/31/20	40.71	Boiler and Balance of Plant
2337	Plant X 4	09/21/20	09/25/20	3.32	Boiler tube leak repairs
2338	Tolk 2	09/21/20	09/24/20	2.62	Division panel tube leak
2339	Cunningham 3	09/22/20	09/23/20	0.41	Fix Gas Leak and Balance Shot
2340	Maddox 2	09/22/20	09/24/20	2.42	5 Bearing Oil Drain Temperature High, Unit Tripped
2341	Cunningham 3	09/24/20	09/25/20	0.59	Balance shot to correct vibration issues
2342	Cunningham 3	09/25/20	09/25/20	0.06	Startup Failure: 24DT Volt/HZ Inverter Time
2343	Cunningham 3	09/25/20	10/24/20	29.04	Field Breaker failed to close
2344	Jones 3	09/28/20	09/29/20	0.61	Gas Calibration
2345	Nichols 3	09/29/20	10/09/20	10.22	Field ground alarm came in while online.
2346	Tolk 2	09/29/20	09/29/20	0.16	Center bushing on TK32 generator breaker, has no oil level. Once bushing is filled with oil, unit can come back online.
2347	Nichols 1	09/30/20	10/01/20	1.17	Turbine governor drives fault
2348	Harrington 3	10/03/20	10/15/20	11.44	Mini Planned Outage
2349	Plant X 1	10/05/20	10/12/20	6.33	To Replace Unit Inverters
2350	Plant X 2	10/05/20	10/09/20	3.67	To Replace Unit Inverters
2351	Plant X 4	10/06/20	10/20/20	2.69	High Pressure Feedwater Heater Safety relief valve lifting at full load, unable to isolate
2352	Tolk 2	10/07/20	10/08/20	0.20	Reheat tube leak make-up flow up to 400gpm, dropping load to try to maintain unit off Automatic Generator Control by 1 AM offline at 3 AM for scheduled Reserved Shut Down
2353	Tolk 2	10/08/20	10/09/20	1.84	Reheat tube leak
2354	Tolk 2	10/09/20	10/16/20	3.54	Reduced load to tie in B & C buses to S bus for synchronous condenser
2355	Cunningham 4	10/12/20	10/12/20	0.03	Startup Failure: Overspeed Trip, Over fuel
2356	Cunningham 4	10/12/20	10/12/20	0.50	Overspeed Trip, Over fuel.
2357	Harrington 1	10/13/20	10/13/20	0.01	Unit had to derate to prevent an Opacity exceedance.
2358	Nichols 3	10/13/20	10/24/20	0.28	Nichols 3 Turbine #2 Control Valve Broke - derated.

Southwestern Public Service Company

Power Plant Maintenance Information

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Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
2359	Harrington 3	10/15/20	10/17/20	2.07	Unit moved from a Planned Outage to an unplanned Forced Outage when it was discovered a sample line heater in the Continuous Emission Monitoring System (CEMS) umbilical had failed. Damage occurred to the umbilical during a storm on 7/31 and the failure took place during repairs to the damage.
2360	Jones 3	10/15/20	12/10/20	55.37	Capital Replacement of Hot Gas Path
2361	Tolk 2	10/15/20	10/15/20	0.03	Unit tripped on loss of East Forced Draft Fan, only had one fan with C Buss out
2362	Nichols 1	10/16/20	10/19/20	2.46	North steam drum door gasket failed
2363	Cunningham 2	10/17/20	10/23/20	5.85	Repack South Boiler Feed Pump
2364	Jones 4	10/17/20	11/01/20	14.89	Gas Calibration, Bore Scope Inspection and Controls Upgrade
2365	Maddox 2	10/17/20	10/19/20	2.02	Bearing 5, Unit tripped
2366	Nichols 3	10/17/20	10/18/20	0.42	Condensate makeup transmitter failed
2367	Harrington 1	10/18/20	10/18/20	0.13	Unit tripped due to a High Drum Level. The drum level transmitters failed.
2368	Harrington 1	10/18/20	10/18/20	0.01	Unit tripped on a High Drum Level due to failed drum level transmitters
2369	Harrington 1	10/19/20	10/19/20	0.06	Unit was derated due to high opacity readings.
2370	Harrington 3	10/19/20	10/23/20	1.09	Unit will be derated to "season/cake" new bags in 7 compartments.
2371	Jones 1	10/19/20	10/19/20	0.28	Right Side Governor Actuator Electrohydraulic Leak
2372	Jones 2	10/19/20	10/22/20	3.18	Waterwall tube leak on B corner
2373	Nichols 1	10/19/20	10/26/20	7.23	Capital outage to replace the voltage regulator
2374	Plant X 4	10/20/20	10/30/20	9.76	Outside of Management Control (OMC) - Substation work
2375	Tolk 2	10/20/20	10/22/20	1.67	Tube leak - convection pass - waterwall
2376	Maddox 2	10/22/20	10/22/20	0.03	Flame Detector Failure
2377	Nichols 3	10/24/20	10/30/20	5.62	Broken #2 Control Valve Repair
2378	Nichols 1	10/26/20	10/26/20	0.03	Set load 75MW gross for Automatic Voltage Regulator (AVR) tuning and testing
2379	Hale Wind	10/27/20	10/28/20	1.33	Icing on all turbines
2380	Harrington 1	10/28/20	10/28/20	0.01	Unit was derated to prevent high opacity readings due to a fouled Electrostatic Precipitator. The unit ran full load for 48 hours and was not able to dead rap clean the Electrostatic Precipitator.
2381	Hale Wind	10/28/20	10/28/20	0.21	Transmission tie line breaker opened. Line patrolled, nothing found, closed breaker back in and held. Heavy icing
2382	Hale Wind	10/28/20	10/29/20	0.46	Site Startup after icing & transmission outage.
2383	Tolk 2	10/29/20	10/30/20	0.71	Reheat tube leak - reduced load to meet system reliability
2384	Hale Wind	10/29/20	10/30/20	0.98	Continue site startup after icing & transmission outage.
2385	Hale Wind	10/29/20	10/30/20	0.15	Continue site startup after icing and transmission outage.
2386	Tolk 2	10/30/20	11/04/20	5.14	Reheat tube leak - 6 tubes needing attention
2387	Hale Wind	10/30/20	10/30/20	0.06	Continue site startup after icing and transmission outage.
2388	Hale Wind	10/30/20	10/31/20	0.12	Continue site startup after icing and transmission outage.
2389	Maddox 1	10/31/20	11/02/20	1.83	Boiler Trip Check Issues
2390	Plant X 2	10/31/20	11/03/20	2.84	Unable to maintain boiler chemistry - sodium ion levels
2391	Hale Wind	10/31/20	11/01/20	0.10	Continue site startup after icing and transmission outage.
2392	Cunningham 2	11/01/20	11/04/20	3.01	Repack South Boiler Feed Pump and check Boiler for Tube Leak/s
2393	Maddox 1	11/03/20	11/05/20	1.00	Superheat Relief Valve Lifted Coming up on Pressure
2394	Maddox 2	11/03/20	11/03/20	0.03	Bleed Valves failed, Air Pressure Low, and Flame Detector Failure
2395	Maddox 2	11/03/20	11/03/20	0.28	52G Air Pressure Low
2396	Maddox 1	11/04/20	11/06/20	1.68	Main Steam Line Drains (Work to complete from Outage)
2397	Cunningham 2	11/05/20	11/13/20	7.49	Tube Leak, North Furnace Waterwall
2398	Cunningham 3	11/05/20	11/05/20	0.02	Rotor Temperature High
2399	Jones 4	11/05/20	11/05/20	0.05	Blade Path (BP) Spread Issues
2400	Cunningham 3	11/06/20	11/06/20	0.35	Air to Air Coolers
2401	Jones 4	11/07/20	11/08/20	0.61	Blade Path (BP) Spread Issues
2402	Harrington 3	11/10/20	11/13/20	3.31	Unit was removed from service to make repairs to a division panel tube leak.
2403	Tolk 1	11/10/20	12/03/20	22.54	Boiler Inspection, Capital: Synchronous Condenser Conversion ADDED: Swapping back over from Synchronous Condenser To Couple back to Turbine NOTE: Extension due to COVID issues with numerous specialist workers availability due to positive test of Covid
2404	Tolk 2	11/10/20	11/14/20	1.27	Unit load and pressure reduced to ride out boiler tube leak till outage (event note: Must Run Fixed to follow projected load profile to empty coal bunkers out for outage)
2405	Hale Wind	11/11/20	11/11/20	0.00	Data communication outage during substation maintenance support in SPS region.
2406	Plant X 4	11/14/20	11/17/20	3.21	Suspected boiler(Economizer) tube leak
2407	Tolk 2	11/14/20	12/29/20	45.04	Outage for synchronous condenser installation: Throttle/Intercept Valves, Boiler, Mercury and Air Toxics Standards (MATS). Capital: Synchronous Condenser Install, Replace Burners, Circulating Pipe, Drag Chain, Rebuild Mill B Gearbox, Drae Chain Controls
2408	Cunningham 3	11/16/20	11/17/20	0.59	Balance Shot on Turbine
2409	Harrington 3	11/18/20	11/21/20	3.02	Unit was removed from service to make repairs to a water wall tube leak.
2410	Jones 2	11/18/20	11/20/20	1.79	Waterwall tube leak on A corner
2411	Jones 4	11/18/20	11/20/20	2.28	Stack Liner Repair
2412	Harrington 1	11/24/20	11/30/20	3.08	Unit was derated due to a failed check valve on the main feedpump recirculation piping. This failure made the feedpump inoperable, so the unit was in service with only the startup feedpump.
2413	Jones 4	11/25/20	11/25/20	0.12	Blade path (BP) Spread Issues
2414	Harrington 1	11/30/20	12/01/20	0.73	The unit was removed from service to replace a failed check valve on the main boiler feedpump recirculation line.
2415	Jones 4	11/30/20	11/30/20	0.19	Blade Path (BP) Temperature Spread Issues
2416	Jones 4	11/30/20	12/03/20	2.91	Communication error within the new software
2417	Maddox 2	11/30/20	12/01/20	1.24	Bleed Valves Failed to Open
2418	Maddox 2	11/30/20	11/30/20	0.07	Bleed Valves Failed to Open, Low Oil Pressure indication
2419	Harrington 1	12/01/20	12/02/20	0.88	Unit was removed from service to perform testing on protective relays.
2420	Harrington 3	12/02/20	12/04/20	2.00	Unit was removed from service to make repairs to a water wall tube leak.
2421	Maddox 1	12/02/20	12/02/20	0.01	1A Boiler Feed Pump Warmup Drain Valve Leak
2422	Cunningham 2	12/03/20	12/09/20	3.42	Boiler Sample Lines
2423	Cunningham 4	12/03/20	12/03/20	0.04	Unit Tripped: Low Air Pressure
2424	Harrington 1	12/03/20	12/04/20	0.25	When trying to latch the turbine, we had a test trip dump valve that would not close and allow the trip system to pressure up to latch the turbine

Southwestern Public Service Company

Power Plant Maintenance Information

(a) Total Maintenance by Operating Unit for Four Years Prior to the Test Year Period by Month (2018-Present)

Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
2425	Harrington 2	12/03/20	12/03/20	0.01	Unit was derated because of high baghouse delt pressure. The unit had excessive compartments out of service to replace failed bags.
2426	Jones 4	12/03/20	12/04/20	0.41	Tuning and Commissioning after controls changes
2427	Jones 1	12/04/20	12/07/20	2.39	City of Lubbock Effluent Line Leak
2428	Jones 2	12/04/20	12/07/20	2.89	City of Lubbock Effluent Line Leak
2429	Harrington 3	12/05/20	12/05/20	0.08	Unit tripped on high back pressure when making repairs to a condensate pump check valve an inspection port was damaged and caused air to be drawn in to the condenser.
2430	Harrington 3	12/05/20	12/05/20	0.10	Unit was derated due to a condensate pump being unavailable for service to make repairs to an inspection port on a discharge line inspection port.
2431	Cunningham 1	12/07/20	12/12/20	5.52	Pinnacle Gas Upgrade - Gas Run
2432	Cunningham 2	12/07/20	12/12/20	5.56	Pinnacle Gas Upgrade - Gas Run
2433	Cunningham 3	12/07/20	12/18/20	10.35	Controls and Voltage Regulator Upgrade
2434	Cunningham 4	12/07/20	12/24/20	16.89	Controls and Voltage Regulator Upgrade
2435	Harrington 1	12/08/20	12/08/20	0.01	Unit was derated to prevent opacity exceedances due to a fouled Electrostatic Precipitator.
2436	Harrington 1	12/09/20	12/09/20	0.02	Unit was derated to prevent opacity exceedances due to a fouled Electrostatic Precipitator
2437	Harrington 2	12/09/20	12/09/20	0.01	Unit had to reduce load due to high baghouse Differential Pressure. The baghouse had excessive compartments out of service to replace failed bags which caused the high Differential Pressure.
2438	Nichols 1	12/09/20	12/11/20	1.90	Economizer inlet header tube leak
2439	Harrington 2	12/10/20	12/10/20	0.00	Unit was derated due to high baghouse delta pressure caused by excessive compartments being out of service to replace failed bags.
2440	Tolk 1	12/10/20	12/11/20	0.08	Relay changeout, was installed on the wrong unit during synchronization installation
2441	Tolk 1	12/11/20	12/19/20	8.56	Ash Clean out on outant slope
2442	Harrington 1	12/12/20	12/12/20	0.02	Unit was derated to prevent opacity violations. The chemical injection system that helps control opacity failed to operate as designed.
2443	Jones 2	12/14/20	12/14/20	0.15	Fuel/Air Issues caused boiler to trip
2444	Harrington 1	12/16/20	12/16/20	0.03	Unit was derated to prevent opacity exceedance due to a dirty Electrostatic Precipitator
2445	Harrington 1	12/16/20	12/17/20	0.03	Unit was derated to prevent opacity exceedances due to a fouled Electrostatic Precipitator
2446	Harrington 2	12/16/20	12/18/20	1.56	Unit was removed from service to make repairs to a water wall tube leak.
2447	Harrington 1	12/17/20	12/17/20	0.17	Unit was derated to dead rap the Electrostatic Precipitator
2448	Harrington 1	12/17/20	12/17/20	0.08	Unit was derated to prevent opacity exceedances due to the Electrostatic Precipitator being dirty
2449	Maddox 2	12/17/20	12/17/20	0.10	Bleed Valve Failed to Open
2450	Cunningham 3	12/18/20	12/18/20	0.06	Generator Vibrations not Reading in Software
2451	Harrington 1	12/19/20	12/19/20	0.04	Unit was derated to prevent opacity exceedances due to a fouled Electrostatic Precipitator
2452	Harrington 3	12/19/20	12/21/20	0.20	Unit was derated to reduce baghouse Differential Pressure due to excessive compartments being out of service on one side to replace failed bags. We operated with the derate versus paying weekend overtime.
2453	Harrington 1	12/20/20	12/20/20	0.03	Unit was derated to prevent opacity exceedances due to a fouled Electrostatic Precipitator
2454	Cunningham 4	12/24/20	12/31/20	6.66	Controls and Voltage Regulator Upgrade, Extended
2455	Jones 2	12/29/20	12/31/20	2.16	Circulating water line leak
2456	Tolk 2	12/29/20	12/29/20	0.88	Planned outage extension
2457	Jones 2	12/31/20	01/07/21	6.84	Circulating water line leak
2458	Plant X 2	12/31/20	12/31/21	81.11	Operating boiler at reduced pressure due to hydrogen embrittlement damage.
2459	Plant X 3	12/31/20	12/31/21	365.00	Unit retirement approval requested due to discovery work on boiler
2021					
2460	Cunningham 1	01/01/21	12/31/21	150.29	Unit derated to 42mw net, 1000#s on Boiler
2461	Cunningham 3	01/06/21	01/06/21	0.21	Replace Gasket/Air to Air Coolers
2462	Cunningham 3	01/07/21	01/07/21	0.03	Startup Failure: Low Air Pressure, Not Ready to Start
2463	Cunningham 3	01/07/21	01/07/21	0.29	Replace Gaskets on Instrument Air
2464	Harrington 1	01/07/21	01/08/21	0.11	Unit was derated to prevent opacity exceedances. The Electrostatic Precipitator is fouling.
2465	Cunningham 3	01/09/21	01/18/21	8.98	Vibration while unit coming down to gear
2466	Harrington 1	01/09/21	01/10/21	0.13	Unit was derated to prevent opacity exceedances. Unit Electrostatic Precipitator is fouling.
2467	Harrington 3	01/10/21	01/10/21	0.01	Unit was derated due to high baghouse delta pressures. The duct tie dampers and control damper setpoints were adjusted to allow us to return to normal operations.
2468	Cunningham 4	01/11/21	01/11/21	0.02	Unit tripped on Low Gas Pressure @ 1500 rpms
2469	Cunningham 4	01/11/21	01/12/21	1.36	Unit tripped on Low Gas Pressure @ 1500 rpms
2470	Harrington 1	01/11/21	01/12/21	0.11	Unit was derated to prevent opacity exceedances. Unit Electrostatic Precipitator is fouling and not cleaning up on dead rapping.
2471	Harrington 2	01/14/21	01/14/21	0.01	Unit was removed from service when it was discovered that the turbine valves had not been transferred before coming on line.
2472	Harrington 2	01/14/21	01/15/21	0.62	Unit was removed from service to swap the shell side safeties on #5 and #6 Feedwater Heaters. Safeties were installed on the wrong heater when the heaters were replaced during the 2019 major outage.
2473	Jones 3	01/14/21	01/14/21	0.50	OneOK running a pig down their transmission line
2474	Jones 4	01/14/21	01/14/21	0.50	OneOK running a pig down their transmission line
2475	Jones 1	01/15/21	04/09/21	83.96	Overhaul of High Pressure/Intermediate Pressure , Exciter and Major Boiler work
2476	Plant X 2	01/17/21	01/19/21	1.32	Turbine oil tank inspection and oil change
2477	Cunningham 3	01/18/21	01/19/21	0.33	Turbine Exhaust Bearing Vibration High
2478	Plant X 4	01/18/21	01/18/21	0.01	Operator error/broke vacuum
2479	Tolk 2	01/18/21	01/24/21	5.65	Took Unit Off of Synchronous Condenser Operation for some required testing, begin Generation Mode Conversion
2480	Sagamore Wind	01/18/21	01/30/21	9.91	Derated to 418MW due to ongoing maintenance from construction
2481	Cunningham 2	01/19/21	01/29/21	9.94	Furnace Water Wall Tube Leak
2482	Nichols 1	01/25/21	01/27/21	2.13	Economizer inlet header tube leak
2483	Harrington 2	01/26/21	01/26/21	0.11	Unit was derated to make repairs on the balance leak off line on the feedpump.
2484	Plant X 1	01/26/21	02/03/21	8.39	Damage to cable tray after small fire. loss of burner management
2485	Tolk 2	01/26/21	01/29/21	2.88	Coming offline with Tube leak; Reheat tube leak by IK 11 on west side
2486	Harrington 1	01/27/21	01/27/21	0.04	Unit was derated to prevent opacity exceedances. The Electrostatic Precipitator is fouled.
2487	Sagamore Wind	01/30/21	03/29/21	53.02	Derated to 475MW due to ongoing maintenance from construction

Southwestern Public Service Company

Power Plant Maintenance Information

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Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
2488	Harrington 2	01/31/21	01/31/21	0.02	Unit tripped on loss of vacuum when the operator closed off the steam supply to the Hogging Jet before closing the valve on the drag line to the hogging jet.
2489	Maddox 1	01/31/21	01/31/21	0.21	Boiler Drum - Steam Leak
2490	Maddox 1	01/31/21	02/01/21	0.34	1B Boiler Feed Pump, Auxiliary Oil Pump
2491	Tolk 2	02/01/21	02/05/21	4.58	Bunker cleanout completed. Beginning Conversion of Unit to return to Synchronous Condenser Operation. Will convert to Generation mode when traders need generation.
2492	Harrington 3	02/04/21	02/04/21	0.02	Unit tripped due to the operator not transferring turbine valves and not having adequate throttle pressure to prevent the turbine generator from tripping on reverse power.
2493	Maddox 2	02/04/21	02/04/21	0.09	Inspect Inlet Air Section
2494	Hale Wind	02/04/21	02/05/21	0.22	Substation breaker tripped, 29 turbines unavailable. Troubleshooting. HV Cable termination failure.
2495	Tolk 2	02/05/21	02/08/21	2.81	Balance shots and testing
2496	Cunningham 3	02/07/21	02/07/21	0.08	Thermocouple bad
2497	Harrington 2	02/07/21	02/08/21	0.19	Unit was derated due to high baghouse Differential Pressure. Unit has 3 compartments out of service due to failed bags.
2498	Jones 2	02/07/21	02/09/21	2.37	Waterwall Tube Leak A corner
2499	Jones 3	02/07/21	02/08/21	1.15	Blade Path Temperature Spread
2500	Maddox 3	02/07/21	02/07/21	0.42	Low Nitrogen on Main Power Transformer
2501	Nichols 3	02/07/21	02/09/21	2.29	Boiler tube leak D corner
2502	Cunningham 3	02/08/21	02/12/21	4.05	Turning Gear Oil Leak
2503	Harrington 1	02/08/21	02/08/21	0.06	Unit was derated to prevent opacity exceedances due to a fouled Electrostatic Precipitator
2504	Jones 3	02/08/21	02/09/21	0.50	Rotor air cooler issues
2505	Jones 3	02/08/21	02/08/21	0.05	Rotor air cooler issues
2506	Jones 3	02/08/21	02/08/21	0.05	Blade path temperature spread
2507	Jones 3	02/08/21	02/08/21	0.03	Rotor air cooler issues
2508	Maddox 1	02/08/21	02/08/21	0.31	Field Breaker Failed to Close
2509	Tolk 1	02/08/21	02/11/21	2.57	Main power transformer alarm. Relief valve lifted and burped/expelled some oil out. Transmission is investigating the issue.
2510	Tolk 2	02/08/21	02/10/21	2.31	Conversion to generation mode
2511	Harrington 2	02/09/21	02/09/21	0.00	Unit was derated due to high Baghouse Differential Pressure. The high Differential Pressure was caused by trying to increase excess oxygen to prevent stack carbon monoxide exceedances. This caused the deflation portion of the cleaning cycle not to operate properly
2512	Harrington 3	02/09/21	02/10/21	0.04	Unit was derated due to high baghouse Differential Pressure. Unit has 2 Baghouse compartments out of service due to failed bags.
2513	Harrington 3	02/09/21	02/09/21	0.01	Unit was derated due to high baghouse Differential Pressure. The high Differential Pressure was caused from biasing up excess oxygen to prevent stack Carbon Monoxide exceedances and removing compartment to try and find blown bags.
2514	Plant X 1	02/09/21	03/25/21	44.32	Loss of Forced Draft Fan
2515	Harrington 2	02/10/21	02/10/21	0.01	Unit was derated due to high boiler brine Cation conductivity readings were not within Action level 2. We experienced a tube leak in the blowdown recovery system heat exchanger.
2516	Harrington 2	02/10/21	02/10/21	0.39	Unit was removed from service due to an Electrohydraulic fluid oil leak on the #3 GV.
2517	Harrington 2	02/10/21	02/13/21	2.05	Unit continued off line from event 14 to make repairs to a boiler tube leak in the 2nd reheater section.
2518	Jones 3	02/10/21	02/11/21	0.97	Blade Path Temperature Spread
2519	Tolk 2	02/10/21	02/11/21	1.04	Air flow trip
2520	Sagamore Wind	02/11/21	02/16/21	5.33	Potential of Forced Outage Due to Icing Concerns
2521	Hale Wind	02/11/21	02/12/21	0.96	Icing on blades causing no production
2522	Cunningham 4	02/12/21	02/15/21	2.35	Unit Shutdown to Keep from Violating nitrogen oxides (NOx) Permit
2523	Cunningham 3	02/13/21	02/15/21	2.14	Compressor Inlet Pressure Low Alarm
2524	Cunningham 2	02/14/21	02/23/21	9.48	Deaerator level indication
2525	Harrington 1	02/14/21	02/15/21	0.11	Unit was derated to prevent possible opacity exceedances. We feel this was a weather and monitoring related event that was causing the derate.
2526	Maddox 2	02/14/21	02/15/21	1.49	Lube Oil Bearing Drain Temperature High
2527	Nichols 1	02/14/21	02/15/21	0.11	Commercial Operations derated the unit due to lack of fuel supply
2528	Nichols 2	02/14/21	02/15/21	0.22	Commercial operation derated unit due to lack of fuel supply.
2529	Nichols 3	02/14/21	02/15/21	0.12	Commercial operations derated due to lack of fuel availability
2530	Plant X 2	02/14/21	02/17/21	2.17	Boiler tube leak
2531	Plant X 4	02/14/21	02/14/21	0.08	Loss of gas supply due to spike in gas line
2532	Cunningham 4	02/15/21	02/15/21	0.10	Lube oil cooler bypass controller not controlling
2533	Jones 4	02/15/21	02/18/21	3.47	Trouble shooting Static frequency Converter (SFC) issues with relay faults
2534	Nichols 1	02/15/21	02/18/21	0.70	Commercial Operations derated the unit due to lack of fuel supply
2535	Nichols 2	02/15/21	02/17/21	0.95	Commercial operation derated unit due to lack of fuel supply.
2536	Nichols 3	02/15/21	02/17/21	1.24	Commercial operations derated due to lack of fuel availability
2537	Plant X 4	02/15/21	02/19/21	1.13	Fuel supply limitations
2538	Hale Wind	02/15/21	02/15/21	0.04	Minor turbine faults from cold temps
2539	Jones 2	02/16/21	02/16/21	0.19	Fuel Oil Burner Pressure Controller Failed
2540	Maddox 1	02/16/21	02/19/21	1.36	Fuel Supply Shortage
2541	Hale Wind	02/16/21	02/17/21	0.10	Minor turbine faults from cold temps. Should improve throughout the day.
2542	Cunningham 3	02/17/21	02/24/21	6.50	Turbine Failing to Spin
2543	Cunningham 3	02/17/21	02/17/21	0.19	Lack of Fuel
2544	Cunningham 4	02/17/21	02/18/21	0.58	Lack of Fuel Supply
2545	Jones 3	02/17/21	02/18/21	0.28	Failure of fuel supplier to fulfill contractual obligations
2546	Maddox 2	02/17/21	02/18/21	0.70	Lack of Fuel
2547	Nichols 2	02/17/21	02/17/21	0.01	Commercial operation derated unit due to lack of fuel supply.
2548	Nichols 2	02/17/21	02/18/21	0.43	Commercial operation derated unit due to lack of fuel supply.
2549	Nichols 3	02/17/21	02/18/21	0.56	Commercial operations derated due to lack of fuel availability
2550	Nichols 3	02/17/21	02/17/21	0.05	Commercial operations derated due to lack of fuel availability
2551	Cunningham 4	02/18/21	02/19/21	0.79	Lack of fuel supply
2552	Jones 4	02/18/21	02/19/21	0.70	Failure of fuel supplier to fulfill contractual obligations.
2553	Maddox 2	02/18/21	02/22/21	3.66	Lube oil bearing drain temperature high , Overhaul
2554	Hale Wind	02/18/21	02/18/21	0.02	Minor turbine faults from cold temps.

Southwestern Public Service Company

Power Plant Maintenance Information

(a) Total Maintenance by Operating Unit for Four Years Prior to the Test Year Period by Month (2018-Present)

Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
2555	Harrington 2	02/19/21	02/21/21	2.40	Unit was removed due to condensate contamination from a condenser tube leak.
2556	Jones 2	02/19/21	03/31/21	39.36	Change out all 4 corner tubes in the boiler
2557	Maddox 2	02/22/21	05/15/21	82.96	Major Outage: Turbine-Generator
2558	Plant X 2	02/23/21	03/05/21	10.42	Discovered boiler tube leak
2559	Tolk 2	02/23/21	03/03/21	7.81	Synchronous Condenser Conversion
2560	Maddox 1	02/25/21	03/01/21	4.51	Condenser Tubes
2561	Plant X 4	02/25/21	02/25/21	0.03	Air flow transmitter issues
2562	Cunningham 1	03/01/21	03/30/21	29.92	Planned Outage
2563	Cunningham 3	03/01/21	03/01/21	0.01	Turbine Exhaust Temperature
2564	Jones 4	03/01/21	03/05/21	4.38	Gas Calibration and Miscellaneous repairs
2565	Hale Wind	03/01/21	03/03/21	0.70	Open Breakers 311, 312, & 313 for BKR 311 replacement. BKR 311, 312, & 313 closed back in but only 7 turbines' switchgears closed. Will close switchgears on remaining turbines during and as PCI expires
2566	Tolk 2	03/03/21	03/04/21	0.75	Balance shots & Testing
2567	Tolk 2	03/04/21	03/04/21	0.13	Balance shots and testing
2568	Tolk 2	03/05/21	03/05/21	0.20	Balance shots & Testing
2569	Tolk 2	03/05/21	03/05/21	0.08	Balance shots and testing
2570	Plant X 4	03/06/21	05/15/21	69.93	Major Turbine Overhaul
2571	Nichols 2	03/08/21	03/11/21	3.09	North Boiler Feed Pump motor bearing wiped and there is no spare.
2572	Cunningham 3	03/09/21	03/10/21	1.30	Change Lube Oil Filters
2573	Maddox 1	03/09/21	03/16/21	6.87	Ruptured Water Line from Raw Water Tank to Cooling Tower
2574	Hale Wind	03/11/21	03/12/21	0.47	Open Breakers 321, 322, 323 for BKR 321 replacement. Closed breakers 321, 322, & 323 back in after replacement.
2575	Cunningham 3	03/12/21	03/17/21	4.17	Analyzer Problems, Fails Calibration
2576	Harrington 1	03/15/21	03/16/21	1.23	Unit was taken out of service to complete repairs to the High Pressure Heater Drains Pump
2577	Tolk 2	03/16/21	03/16/21	0.07	Balance shot
2578	Cunningham 3	03/17/21	03/19/21	1.78	Generator Inlet Air Filters
2579	Nichols 1	03/17/21	03/17/21	0.13	Nichols 1 tripped from substation relay 186sub lockout. Heavy wind and winter weather
2580	Cunningham 2	03/18/21	03/18/21	0.03	Feedwater Recirc Safety Relief Valve Leaking
2581	Tolk 1	03/18/21	03/18/21	0.31	Unit unavailable due to switchyard repair work on TK04
2582	Harrington 2	03/19/21	03/19/21	0.04	Unit was derated due to high baghouse Differential Pressure. The unit had 2 Baghouse compartments out of service at the same time to replace failed bags.
2583	Harrington 1	03/23/21	03/24/21	0.08	Unit was derated make repairs to a failed actuator on the low pressure gov.
2584	Nichols 2	03/23/21	05/14/21	51.06	Nichols 2 Planned Outage for Turbine valves and boiler work.
2585	Jones 3	03/24/21	03/26/21	2.00	Gas Calibration
2586	Tolk 2	03/26/21	05/13/21	47.67	Transformer replacement (3620 - 105971126) Then will continue with Reheat tube loop replacement (1800 - 105897723)
2587	Jones 3	03/28/21	04/02/21	4.91	Overspeed Trip Valve Solenoid Failed and tripped the unit
2588	Sagamore Wind	03/29/21	03/31/21	1.80	3 Feeders out of service. 27 turbines affected
2589	Cunningham 1	03/30/21	04/09/21	9.91	Planned Outage Extension - Stop Valve and Controls work
2590	Harrington 3	03/30/21	03/30/21	0.08	Unit was derated due to the loss of the main feed pump. The feed pump tripped when personnel mis operated a valve on the lube oil pressure transmitter.
2591	Harrington 2	03/31/21	04/01/21	0.04	Unit was derated due to high baghouse Differential Pressure. Unit had 2 baghouse compartments out of service.
2592	Sagamore Wind	04/01/21	04/12/21	10.92	Derated to 475MW due to ongoing maintenance from construction
2593	Harrington 2	04/04/21	04/04/21	0.05	Bag failures and rebagging
2594	Cunningham 1	04/09/21	04/10/21	0.18	17th stage heater extraction sticking
2595	Jones 1	04/09/21	05/13/21	33.72	Planned outage extension (Overhaul of High Pressure/Intermediate Pressure , Exciter and Major Boiler work)
2596	Nichols 1	04/13/21	04/16/21	3.35	Maintenance Outage to repair a gas leak on the metering outlet piping underground
2597	Sagamore Wind	04/13/21	04/26/21	12.74	Derated to 475MW due to ongoing maintenance from construction
2598	Harrington 1	04/16/21	04/16/21	0.02	Unit was derated to prevent opacity violations. The Electrostatic Precipitator is very dirty.
2599	Jones 2	04/16/21	04/16/21	0.02	Turbine Making a High Pitched Noise
2600	Harrington 2	04/17/21	04/30/21	12.68	Planned Mini
2601	Harrington 1	04/19/21	04/19/21	0.01	Unit was derated to prevent opacity exceedances. Unit is operating with a fouled Electrostatic Precipitator
2602	Cunningham 1	04/20/21	04/20/21	0.08	Annual Turbine Overspeed Test
2603	Cunningham 3	04/20/21	04/22/21	2.00	Turning Gear Oil Leak
2604	Harrington 1	04/21/21	04/21/21	0.11	Unit was derated to prevent opacity exceedances. Electrostatic Precipitator is fouled
2605	Cunningham 3	04/22/21	04/26/21	4.33	Continuous Emission Monitoring System (CEMS) Analyzer Replacement
2606	Cunningham 1	04/23/21	04/27/21	4.17	El Paso Gas line Department of Transportation (DOT) inspection.
2607	Cunningham 2	04/23/21	04/27/21	0.71	El Paso Gas line Department of Transportation (DOT) inspection
2608	Cunningham 4	04/23/21	04/25/21	2.67	Lack of Fuel: El Paso working on compressor line in Eunice area.
2609	Maddox 1	04/23/21	04/25/21	1.21	Lack of Fuel: El Paso Gas Line Department of Transportation (DOT) inspection
2610	Cunningham 4	04/25/21	05/01/21	5.38	Turning Oil Leak.
2611	Maddox 1	04/25/21	04/26/21	1.06	El Paso Gas Line Department of Transportation (DOT) inspection
2612	Cunningham 3	04/26/21	04/27/21	1.03	Lack of Fuel Supply
2613	Sagamore Wind	04/27/21	06/01/21	33.52	Derated to 500MW due to ongoing maintenance from construction
2614	Harrington 2	04/30/21	05/07/21	2.26	Planned derate to season bags in 7 rebagged compartments during planned outage
2615	Harrington 1	05/01/21	05/01/21	0.05	Unit was tripped when the boiler drum level was not controlled by the operator.
2616	Harrington 1	05/02/21	05/15/21	13.94	Unit removed from service for a planned outage. Scope: Blast the Electrostatic Precipitator, Tube Leak, Cooling Tower blowdown valve, West Induced Draft damper, C Igniter, Air Preheater Wash, Main Boiler Feed Pump Steam Valve, and Front Standard Work.
2617	Cunningham 4	05/07/21	05/09/21	1.64	L915: Sulfur Hexafluoride (SF6) Gas Pressure Low
2618	Cunningham 2	05/09/21	05/09/21	0.10	Cooling Tower Low pH.
2619	Cunningham 3	05/10/21	05/10/21	0.14	Cunningham 3: Instrument Air Compressor Tripped
2620	Maddox 1	05/10/21	05/12/21	2.74	Relay work by Transmission Operations
2621	Tolk 1	05/10/21	05/11/21	0.04	"A" Mill is in major overhaul, "D" feeder tripped will not restart could not reach full load with gas Work ID 106184082

Southwestern Public Service Company

Power Plant Maintenance Information

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Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
2622	Cunningham 2	05/11/21	05/15/21	4.32	Makeup valve
2623	Plant X 2	05/11/21	05/12/21	0.98	Start up failure due to crack in main steam line discovered
2624	Maddox 3	05/12/21	05/18/21	5.95	Generator Failed to synchronize
2625	Hale Wind	05/12/21	05/12/21	0.00	Feeder outage for maintenance
2626	Jones 4	05/13/21	05/13/21	0.41	Gas Calibration
2627	Cunningham 3	05/14/21	05/14/21	0.08	Cunningham 3: Wet Compression Activation
2628	Cunningham 4	05/14/21	05/14/21	0.06	Wet Compression
2629	Jones 3	05/14/21	05/14/21	0.22	Gas Calibration
2630	Harrington 1	05/15/21	05/16/21	0.62	Unit Planned Outage was extended to make repairs to discovered tube leaks
2631	Maddox 2	05/15/21	08/04/21	78.25	Major Outage
2632	Nichols 2	05/15/21	05/18/21	2.88	Nichols 2 planned outage extension for turbine valve overspeed throttle valve issues.
2633	Plant X 4	05/15/21	06/28/21	43.36	Major turbine overhaul
2634	Harrington 3	05/17/21	05/21/21	4.00	Unit was removed from service to make repairs to tube leaks
2635	Jones 1	05/17/21	05/17/21	0.43	Waterwall tube leak in D corner.
2636	Cunningham 4	05/19/21	05/26/21	6.92	Turning Gear Oil Leaks
2637	Nichols 2	05/19/21	05/20/21	1.26	Nichols 2 planned outage extension for turbine valve overspeed throttle valve issue
2638	Maddox 3	05/20/21	05/21/21	0.98	Breaker Issues: Anchor Wire Broken
2639	Harrington 2	05/21/21	05/21/21	0.02	Unit was tripped we a 6900 volt buss was tripped. While swapping from startup source to normal source the operations of the fast transfer did not operate as designed.
2640	Jones 1	05/21/21	05/23/21	2.42	Inspect turbine governor/control valves.
2641	Nichols 3	05/23/21	05/28/21	4.58	Mini outage to replace turbine vibration monitoring equipment, Deaerator steam blanket Control Valve, steam drum vent Block Valve, boiler sampling Block Valves and prepare for summer.
2642	Maddox 1	05/24/21	06/02/21	9.70	Maintenance Outage
2643	Maddox 3	05/24/21	05/24/21	0.49	Instrument Air Leaks
2644	Cunningham 3	05/25/21	05/25/21	0.55	Cunningham 3 Wet Compression Activation
2645	Jones 2	05/25/21	06/18/21	6.00	Lost #2 G Bus Transformer which lost 6-11 Cooling tower Fans
2646	Tolk 2	05/25/21	05/29/21	3.28	Synchronous Condenser Conversion
2647	Cunningham 4	05/26/21	06/16/21	21.33	Torque Converter and Turning Gear
2648	Quay County 1	05/27/21	05/28/21	0.72	Tried to start the unit for monthly Preventive Maintenance run but would not start due to turbine fan compressor, generator heater and 2 other monitoring system failures. Crews found a bad programmable logic controller (PLC). Once replaced the unit was started for the Preventive Maintenance run and then put into Reserved Shutdown.
2649	Harrington 3	06/01/21	06/01/21	0.01	Unit was derated due to high baghouse Differential Pressure. The high Differential Pressure was caused by having 3 compartments out of service to replace failed bags.
2650	Maddox 3	06/01/21	06/02/21	1.22	Conoco Gas Line - Capped
2651	Harrington 2	06/02/21	06/02/21	0.02	Unit was derated due to high baghouse Differential Pressure. Deflation damper issues are preventing the deflation duct work from pressuring up to deflate compartments at high load.
2652	Harrington 2	06/03/21	06/05/21	0.22	Unit was derated due to high baghouse Differential Pressure. Deflation damper issues are preventing the deflation duct work from pressuring up to deflate compartments at high load.
2653	Harrington 2	06/07/21	06/08/21	0.07	Unit was derated to relieve the high baghouse Delta Pressure. The high Differential Pressure is due to #7 Baghouse compartment out of service to replace failed bags.
2654	Jones 3	06/08/21	06/08/21	0.07	Reserved Shutdown - Check
2655	Harrington 1	06/11/21	06/11/21	0.03	Unit was derated to replace a board on D Feeder load cell. We also had another mill out of service for repairs.
2656	Harrington 1	06/12/21	06/12/21	0.02	Unit was derated due to boiler going positive. The Induced Draft fans could not maintain enough draft on the furnace. We feel this was more an ambient conditions than equipment problems.
2657	Jones 1	06/14/21	06/15/21	0.26	Loss of Power to the Inverter
2658	Plant X 1	06/14/21	06/14/21	0.11	Forced Draft fan controls issue
2659	Cunningham 1	06/15/21	06/18/21	3.27	Unit tripped. Loss of Excitation
2660	Tolk 2	06/17/21	06/17/21	0.02	High Drum Level Trip-controls very sloppy, closed #2 Feedwater Heater outlet to try to control level
2661	Harrington 3	06/20/21	06/20/21	0.02	Unit was derated due to high boiler brine silica readings. After returning from a reserve shutdown and achieving full load the boiler silica reading spiked up for no known reason.
2662	Harrington 3	06/20/21	06/20/21	0.02	Unit was derated because #30 Baghouse compartment was out of service for failed bags. As a result of the compartment out of service the furnace was running positive and the Induced Draft Fans were maxed out.
2663	Tolk 2	06/20/21	06/23/21	2.34	Main Power Transformer oil leak on flange - warranty WO# 106389297
2664	Nichols 2	06/21/21	06/21/21	0.34	Maintenance Outage to put balance shot in Forced Draft fan
2665	Jones 1	06/22/21	06/23/21	0.97	D Corner 2nd Floor Water wall Tube Repair
2666	Harrington 3	06/26/21	06/28/21	0.11	Unit was derated due to high furnace pressure. The high pressure is due to high humidity, a plugged Air Preheater, and increasing oxygen to control Carbon Monoxide.
2667	Jones 1	06/26/21	06/29/21	0.26	#1 High Pressure Heater had a tube leak and both #1 & #2 High Pressure heaters had to be bypassed
2668	Jones 2	06/26/21	06/26/21	0.02	Operators were getting a Forced Draft fan discharge pressure alarms
2669	Harrington 2	06/27/21	06/28/21	0.01	Unit was derated due to high baghouse Differential Pressure. Unit had 2 compartments out of service to replace failed bags.
2670	Harrington 1	06/28/21	06/28/21	0.04	Unit was derated to prevent opacity exceedances. Electrostatic Precipitator is Fouled
2671	Plant X 4	06/28/21	06/29/21	1.12	Major turbine overhaul related work
2672	Harrington 2	06/29/21	06/30/21	0.02	Unit was derated due to high baghouse Differential Pressure. The cleaning cycle deflation fan was not able to draft enough flow from the Induced Draft duct work due to high Induced Draft inlet pressure
2673	Harrington 2	06/29/21	06/29/21	0.02	Unit was derated to prevent high baghouse Differential Pressure due to a compartment being out of service to replace failed bags.
2674	Jones 1	06/29/21	07/05/21	5.80	Shutdown to repair #1 High Pressure heater tube leak
2675	Plant X 4	06/29/21	06/30/21	0.92	Loss of east circulating pump motor
2676	Maddox 1	06/30/21	07/13/21	13.77	South Turbine Throttle Valve
2677	Maddox 3	06/30/21	07/02/21	2.50	Gas Controls Upgrade for Maddox 2
2678	Plant X 4	06/30/21	07/01/21	0.03	Major Turbine Overhaul
2679	Plant X 4	06/30/21	08/17/21	16.34	Loss of East Main Circulator Pump Motor
2680	Tolk 1	06/30/21	06/30/21	0.03	E' Feeder tripped due to failed gearbox. Topping with gas could not reach full load. WO# 106465396
2681	Harrington 1	07/01/21	07/02/21	0.02	Unit was derated to prevent opacity exceedances. The Electrostatic Precipitator is fouled.

Southwestern Public Service Company

Power Plant Maintenance Information

(a) Total Maintenance by Operating Unit for Four Years Prior to the Test Year Period by Month (2018-Present)

Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
2682	Harrington 2	07/03/21	07/03/21	0.05	Unit is being derated due to high baghouse Differential Pressure. We feel this is being caused by the cleaning cycle under performing.
2683	Harrington 2	07/04/21	07/04/21	0.05	Unit is being derated due to high baghouse Differential Pressure. We feel this is being caused by the cleaning cycle under performing.
2684	Nichols 3	07/04/21	07/04/21	0.14	Gas firing valve not functioning properly due to internal issues
2685	Nichols 3	07/04/21	07/04/21	0.06	Gas firing valve not controlling properly
2686	Nichols 1	07/05/21	07/07/21	1.76	Economizer tube leak from cycling causing thermal fatigue cracking
2687	Harrington 2	07/06/21	07/06/21	0.10	Unit is being derated due to high baghouse Differential Pressure. We feel this is being caused by the cleaning cycle under performing.
2688	Harrington 2	07/06/21	07/07/21	0.05	Unit is being derated due to high baghouse Differential Pressure. We feel this is being caused by the cleaning cycle under performing.
2689	Harrington 1	07/07/21	07/07/21	0.42	Unit boiler and turbine tripped from a loss of auxiliary cooling water to the plant equipment. The west auxiliary cooling water pump suction can ruptured causing a lost of auxiliary cooling water to the system.
2690	Harrington 1	07/07/21	07/09/21	2.08	Unit cannot return from event due to boiler circulating pump suction are in bind and will not open
2691	Harrington 2	07/07/21	07/08/21	0.11	Unit is being derated due to high baghouse Differential Pressure. We feel this is being caused by the cleaning cycle under performing.
2692	Tolk 2	07/07/21	07/07/21	0.01	2B feeder clean out conveyor gearbox failed WO# 106461496
2693	Harrington 2	07/08/21	07/16/21	8.53	Unit was removed from service to inspect the furnace for plugging and the Baghouse cleaning cycle deflation ductwork and dampers.
2694	Harrington 3	07/08/21	07/08/21	0.01	Unit was derated due to high baghouse Differential Pressure. We have 2 compartments out of service to replace failed bags.
2695	Plant X 1	07/08/21	07/08/21	0.23	Unable to start Reverse Osmosis (RO) 1 pump motor
2696	Tolk 1	07/08/21	07/08/21	0.46	Unit Motor Driven Boiler Feedpump discharge valve failed - repairs underway
2697	Cunningham 4	07/12/21	07/12/21	0.06	Failed to ignite.
2698	Cunningham 4	07/12/21	07/12/21	0.07	Failed to Ignite.
2699	Tolk 1	07/15/21	07/15/21	0.26	#3 Extraction valve failure WO# 106496487
2700	Cunningham 4	07/17/21	07/17/21	0.13	Direct Current (DC) Oil Pump Failed Startup Prechecks before Starting Unit
2701	Cunningham 4	07/17/21	07/17/21	0.03	Direct Current (DC) Oil Pump failed startup test before starting
2702	Cunningham 2	07/18/21	07/20/21	0.46	Suspected tube leak causing the Reverse Osmosis (RO) to fall behind.
2703	Harrington 2	07/18/21	07/18/21	0.02	Unit was derated to prevent the furnace from going positive due to running out of Induced Draft fans. The Baghouse cleaning cycle is not performing as designed and not allowing the Baghouse to clean efficiently.
2704	Harrington 1	07/19/21	07/22/21	2.67	Unit was removed from service to inspect the furnace and repair the West Boiler Circulating Pump suction valve
2705	Harrington 3	07/19/21	07/20/21	0.04	Unit was derated due to 2 baghouse compartments being out of service to replace failed bags.
2706	Harrington 2	07/20/21	07/20/21	0.02	The unit was derated due to high Baghouse Differential Pressure and not having the ability to deflate the compartments properly when cleaning them.
2707	Nichols 1	07/21/21	07/23/21	1.54	Economizer tube leak from cycling causing corrosion and thermal fatigue cracking
2708	Harrington 2	07/23/21	07/23/21	0.09	Unit was derated to inspect the deflation fans.
2709	Harrington 2	07/24/21	07/25/21	0.01	Unit was derated due to high baghouse Differential Pressure. The cleaning cycle is not operating as designed and causing the high Differential Pressure.
2710	Harrington 3	07/24/21	07/25/21	0.01	Unit was derated due to high baghouse Differential Pressure. The cleaning cycle is not operating as designed and its causing the high Differential Pressure
2711	Cunningham 1	07/25/21	08/04/21	10.06	Oxygen Sensor Probes Failed
2712	Harrington 1	07/26/21	07/26/21	0.10	Electrostatic precipitator fouling
2713	Harrington 2	07/26/21	07/27/21	0.07	Unit was derated due to high baghouse Differential Pressure. The cleaning cycle is not operating as designed and its causing the high Differential Pressure
2714	Maddox 1	07/26/21	07/26/21	0.05	Check 1A Circulator Electric Trips
2715	Nichols 2	07/26/21	08/04/21	8.72	Reheat tube leak caused by long term overheating
2716	Tolk 2	07/26/21	07/28/21	1.28	High Pressure heater tube side safety relief valve is leaking through WO# 106544350
2717	Harrington 1	07/27/21	07/28/21	0.13	Unit was derated to prevent opacity exceedances due to a fouled Electrostatic Precipitator
2718	Harrington 2	07/27/21	07/28/21	0.07	Unit was derated to reduce high baghouse Differential Pressure. The high Differential Pressure is due to the deflation portion of the cleaning cycle not operating efficiently.
2719	Harrington 3	07/27/21	07/27/21	0.05	Unit was derated to reduce high baghouse Differential Pressure. The high Differential Pressure is due to the deflation portion of the cleaning cycle not operating efficiently.
2720	Maddox 3	07/27/21	07/27/21	0.35	U919 Shows Open when Closed
2721	Harrington 1	07/28/21	07/28/21	0.04	Unit was derated to prevent opacity exceedances due to a fouled Electrostatic Precipitator.
2722	Harrington 3	07/28/21	07/28/21	0.02	Unit was derated to reduce high baghouse Differential Pressure. The high Differential Pressure is due to the deflation portion of the cleaning cycle not operating efficiently.
2723	Harrington 1	07/29/21	07/29/21	0.01	Unit was derated to prevent opacity exceedances due to a fouled Electrostatic Precipitator
2724	Harrington 2	08/01/21	08/01/21	0.01	Blown bags caused high Differential Pressure.
2725	Harrington 3	08/02/21	08/03/21	1.64	Unit was removed from service to inspect the first stage superheater section.
2726	Harrington 2	08/03/21	08/03/21	0.02	High baghouse Differential Pressure.
2727	Jones 1	08/04/21	08/04/21	0.51	Repair Electrohydraulic leak on Left Side Intercept Valve
2728	Maddox 2	08/04/21	08/05/21	0.83	Gas Turbine Overhaul. Bearing 4 Vibration high, Tripped
2729	Harrington 2	08/05/21	08/06/21	0.03	Baghouse Differential Pressure high.
2730	Harrington 2	08/05/21	08/05/21	0.04	Baghouse Differential Pressure high.
2731	Harrington 2	08/06/21	08/06/21	0.00	Baghouse Differential Pressure high.
2732	Maddox 2	08/06/21	08/10/21	3.77	Gas Turbine Overhaul: Bearing 4 high vibration, tripped
2733	Nichols 2	08/06/21	08/13/21	7.24	Unable to pull vacuum due to reheat tube leak
2734	Harrington 2	08/08/21	08/08/21	0.00	Baghouse Differential Pressure high.
2735	Cunningham 4	08/09/21	08/11/21	1.75	Continuous Emission Monitoring System (CEMS) not Ready
2736	Harrington 3	08/09/21	08/09/21	0.03	Unit was derated due to high winding temperatures on the East Induced Draft Fan.
2737	Harrington 3	08/10/21	08/10/21	0.01	The unit was derated to decrease baghouse Differential Pressure and control furnace pressure. The high Differential Pressure is caused by inadequate deflation during the cleaning cycle
2738	Maddox 1	08/10/21	08/11/21	0.43	Transformer Bushings
2739	Maddox 2	08/10/21	08/11/21	0.57	Gas Turbine Overhaul: Bearing 4 Vibration High, tripped
2740	Maddox 2	08/11/21	08/13/21	1.86	Gas Turbine Overhaul: Bearing 4 Vibration High

Southwestern Public Service Company

Power Plant Maintenance Information

(a) Total Maintenance by Operating Unit for Four Years Prior to the Test Year Period by Month (2018-Present)

Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
2741	Harrington 2	08/12/21	08/12/21	0.23	Feedwater piping and supports
2742	Harrington 2	08/12/21	08/14/21	2.42	Repairs to main feed pump recirculation valves.
2743	Harrington 3	08/15/21	08/15/21	0.02	Unit was derated to reduce the baghouse Differential Pressure. The high Differential Pressure was due to having two compartments out of service to replace failed bags.
2744	Maddox 1	08/16/21	08/20/21	4.46	Cooling Tower Transformer Bushings Leak
2745	Maddox 2	08/17/21	08/18/21	0.69	Bearing 5 Vibration High
2746	Maddox 2	08/17/21	08/17/21	0.04	Bearing 4 High Vibration, Trip
2747	Plant X 4	08/18/21	08/25/21	2.53	Steam leak on west boiler feed pump allowed water to get in the pump's oil system
2748	Cunningham 2	08/19/21	08/19/21	0.01	Turbine Control Redundant Module
2749	Harrington 3	08/19/21	08/19/21	0.19	Unit was removed from service to reduce baghouse Differential Pressure. the high Differential Pressure was a result of inadequate cleaning.
2750	Maddox 2	08/19/21	09/09/21	20.19	Generator Differential Relay Trip
2751	Cunningham 3	08/20/21	08/20/21	0.11	Turning Gear Line Oil Leak
2752	Jones 2	08/21/21	08/23/21	0.73	Water in the oil feeding the Gear and Pump bearings on the East Boiler Feed Pump
2753	Plant X 4	08/23/21	08/25/21	1.73	Repair steam leak on Boiler feed pump
2754	Harrington 3	08/24/21	08/24/21	0.02	Unit was derated to reduce the motor winding temperatures on the East Induced Draft fan.
2755	Jones 2	08/24/21	08/24/21	0.04	Replace the oil in the East Boiler Feed Pump gearbox reservoir
2756	Cunningham 3	08/25/21	08/25/21	0.12	Continuous Emission Monitoring System (CEMS) Not Reading
2757	Jones 4	08/25/21	08/25/21	0.27	Tripped on Blade Path Temperature Spread
2758	Harrington 2	08/26/21	08/26/21	0.02	Compartments out of service due to blown bags
2759	Jones 1	08/26/21	09/02/21	7.65	Had a superheat panel stub tube pull out of the superheat header
2760	Jones 4	08/26/21	08/27/21	0.92	Blade Path Spread Temperature Problems
2761	Cunningham 3	08/27/21	08/27/21	0.12	Oil Leak at Torque Converter Section
2762	Harrington 2	08/30/21	08/30/21	0.02	Baghouse Differential Pressure high.
2763	Harrington 3	08/30/21	08/30/21	0.03	Unit was derated to reduce baghouse Differential Pressure. The high Differential Pressure was caused from the deflation portion of the cleaning cycle not operating as designed.
2764	Jones 3	08/30/21	08/30/21	0.02	Could get load due to weather conditions with high humidity
2765	Harrington 2	08/31/21	08/31/21	0.01	Baghouse Differential Pressure issues.
2766	Harrington 3	08/31/21	08/31/21	0.06	Unit was derated due to the furnace going positive. We have a fouled Air Preheater and have high ambient temperatures and humidity.
2767	Maddox 1	08/31/21	09/01/21	1.27	TID Transformer Leaking Oil
2768	Harrington 2	09/01/21	09/01/21	0.04	Unit was derated to reduce baghouse Differential Pressure. Inadequate deflation during cleaning.
2769	Harrington 3	09/01/21	09/01/21	0.02	Unit was derated to prevent the furnace from going positive. We have a fouled Air Preheater and bag cleaning issues.
2770	Harrington 2	09/02/21	09/02/21	0.03	Unit was derated to reduce baghouse Differential Pressure. The unit had 1 Baghouse compartment out of service to replace failed bags.
2771	Harrington 3	09/02/21	09/02/21	0.02	Unit was derated due to the furnace going positive. We feel this is due to a fouled Electrostatic Precipitator.
2772	Cunningham 4	09/03/21	09/03/21	0.14	Blade Path Temperature Spread A
2773	Harrington 2	09/03/21	09/03/21	0.02	Unit was derated to reduce the Baghouse Differential Pressure. The deflation portion of the cleaning cycle is not adequate.
2774	Harrington 3	09/03/21	09/03/21	0.02	Unit was derated to control furnace pressure. The unit has a fouled Air Preheater.
2775	Plant X 4	09/03/21	09/03/21	0.02	Loss of redundancy due to the West Boiler Feed Pump failing to start
2776	Harrington 3	09/04/21	09/04/21	0.02	Unit was derated to reduce Baghouse Differential Pressure. The unit had 2 compartments out of service to replace failed bag.
2777	Maddox 1	09/04/21	09/05/21	0.10	Loss of Water well Communication
2778	Harrington 2	09/05/21	09/05/21	0.04	Unit was derated to reduce the Baghouse Differential Pressure. The deflation portion of the bag cleaning is not adequate.
2779	Harrington 1	09/06/21	09/06/21	0.01	Unit was derated to prevent opacity exceedances. Unit Electrostatic Precipitator was fouled.
2780	Harrington 2	09/06/21	09/06/21	0.02	Unit was derated to reduce the Baghouse Differential Pressure. The unit deflation portion of the cleaning cycle is inadequate.
2781	Nichols 2	09/06/21	09/15/21	8.64	Maintenance Outage to repair an economizer inlet header tube leak
2782	Harrington 2	09/07/21	09/07/21	0.02	Unit was derated to reduce Baghouse Differential Pressure due to inadequate baghouse bag cleaning.
2783	Jones 2	09/07/21	09/10/21	3.34	Multiple Reheat Tube Repairs in the Panels in the Boiler
2784	Tolk 2	09/07/21	09/07/21	0.03	East Forced Draft Fan tripped
2785	Hale Wind	09/07/21	09/07/21	0.02	LPS work in turbine blades.
2786	Harrington 3	09/08/21	09/08/21	0.02	Unit was derated to control furnace pressure. The unit has a fouled Air Preheater.
2787	Tolk 1	09/08/21	09/08/21	0.10	Reheat/Intercept valve stuck closed during testing
2788	Tolk 1	09/08/21	09/08/21	0.07	Turbine Reheat an Intercepts stuck closed on Valve stem freedom test WO# 106743154
2789	Hale Wind	09/08/21	09/08/21	0.03	Updated: 09/03/2021 14:12 09/03/2021 13:52 LPS work in turbine blades.
2790	Cunningham 2	09/09/21	09/10/21	1.11	Main Power Transformer, Insulation Across Phase
2791	Harrington 2	09/09/21	09/09/21	0.02	Unit was derated to reduce baghouse Differential Pressure. The high Differential Pressure is due to inadequate compartment cleaning
2792	Maddox 2	09/09/21	09/20/21	10.44	Gas Turbine: Balance of Plant
2793	Maddox 2	09/09/21	09/09/21	0.05	Gas Valve
2794	Hale Wind	09/09/21	09/09/21	0.02	LPS work in turbine blades.
2795	Harrington 2	09/10/21	09/10/21	0.02	Unit was derated to reduce baghouse Differential Pressure. The high Differential Pressure is due to inadequate compartment cleaning
2796	Harrington 3	09/10/21	09/10/21	0.05	Unit was derated to reduce the motor winding temperatures on the East Induced Draft fan.
2797	Jones 3	09/11/21	09/13/21	1.64	Turbine Lube Oil Leak around the Filter Housing
2798	Harrington 2	09/12/21	09/12/21	0.02	Unit was derated to reduce baghouse Differential Pressure. The high Differential Pressure is due to inadequate compartment cleaning
2799	Harrington 3	09/12/21	09/12/21	0.01	Unit was derated to control furnace pressure. The unit has a fouled Air Preheater.
2800	Hale Wind	09/13/21	09/13/21	0.02	LPS work in turbine blades.
2801	Cunningham 4	09/14/21	09/16/21	2.07	Replaced the continuous emission monitoring system (CEMS) Analyzer, Umbilical Cord
2802	Harrington 1	09/14/21	09/14/21	0.01	Unit was derated to reduce Baghouse Differential Pressure. The high Differential Pressure is being caused by inadequate cleaning on the compartments.
2803	Harrington 2	09/14/21	09/14/21	0.01	Unit was derated to reduce Baghouse Differential Pressure. Baghouse cleaning is not sufficient.

Southwestern Public Service Company

Power Plant Maintenance Information

(a) Total Maintenance by Operating Unit for Four Years Prior to the Test Year Period by Month (2018-Present)

Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
2804	Jones 3	09/14/21	09/17/21	2.34	Got a lube oil mismatch alarm from 2 failed pressure switches which did not allow unit to go on turning gear.
2805	Hale Wind	09/14/21	09/14/21	0.02	LPS work in turbine blades.
2806	Harrington 2	09/15/21	09/15/21	0.01	Unit was derated to reduce the Baghouse Differential Pressure. The high Differential Pressure is due to inadequate cleaning of the baghouse bags.
2807	Hale Wind	09/15/21	09/15/21	0.02	LPS work in turbine blades.
2808	Hale Wind	09/16/21	09/16/21	0.02	LPS work in turbine blades.
2809	Cunningham 3	09/17/21	09/17/21	0.17	Generator Stator A Temperature
2810	Nichols 2	09/17/21	09/17/21	0.03	Right throttle stop valve would trip just before going full valve
2811	Plant X 4	09/17/21	09/18/21	0.68	Low Oil pressure on West Boiler Feed pump
2812	Hale Wind	09/17/21	09/17/21	0.02	LPS work in turbine blades.
2813	Cunningham 4	09/18/21	09/18/21	0.06	Blade Path Temperature Spread A
2814	Cunningham 4	09/18/21	09/18/21	0.03	Blade Path Temperature Spread A
2815	Harrington 1	09/18/21	09/18/21	0.03	Unit was derated to prevent opacity exceedances
2816	Harrington 2	09/18/21	09/18/21	0.03	Unit was derated to reduce Baghouse Differential Pressure. Baghouse cleaning is insufficient.
2817	Jones 4	09/19/21	09/22/21	3.21	Replace 2 combustion burners
2818	Nichols 3	09/19/21	09/22/21	3.00	Maintenance Outage to repair a boiler Superheat drain line leak inside the header casing
2819	Maddox 2	09/20/21	09/22/21	2.07	Tripped. Vibration 4.
2820	Plant X 1	09/20/21	09/24/21	4.14	Maintenance Outage to replace Station Batteries
2821	Tolk 2	09/20/21	09/20/21	0.02	Unit tripped on high drum level and low gas line pressure
2822	Hale Wind	09/20/21	09/20/21	0.02	LPS work in turbine blades.
2823	Cunningham 4	09/21/21	09/21/21	0.04	Low Air Pressure, Failed Start
2824	Harrington 2	09/22/21	09/22/21	0.02	Unit was derated to reduce Baghouse Differential Pressure
2825	Jones 4	09/22/21	09/24/21	1.58	Quarterly Gas Calibrations and Preventive Maintenance
2826	Maddox 2	09/22/21	09/23/21	0.43	Vibration 4 high
2827	Hale Wind	09/22/21	09/22/21	0.02	LPS work in turbine blades.
2828	Hale Wind	09/23/21	09/23/21	0.02	LPS work in turbine blades.
2829	Harrington 1	09/24/21	09/24/21	0.08	Unit was derated when B coal mill was removed from service due to a failed journal/door.
2830	Harrington 2	09/24/21	09/24/21	0.01	Unit was derated to reduce Baghouse Differential Pressure. The cleaning cycle is not cleaning the bags sufficiently.
2831	Jones 3	09/24/21	09/24/21	0.10	Inspect the Exhaust Stack
2832	Plant X 4	09/24/21	09/28/21	4.06	Main Power Transformer Oil level Low
2833	Tolk 1	09/24/21	10/27/21	32.94	#4 Bearing wiped - will also pull #5 bearing and inspect/repair as needed WO# 106817497
2834	Hale Wind	09/24/21	09/24/21	0.02	LPS work in turbine blades.
2835	Cunningham 4	09/25/21	09/25/21	0.03	Unit tripped. Low Pressure Bleed Valve Position
2836	Harrington 2	09/25/21	09/25/21	0.03	Unit was derated to reduce Baghouse Differential Pressure. High Differential Pressure is caused from inadequate cleaning of the bags.
2837	Harrington 3	09/25/21	09/25/21	0.01	Unit was derated to reduce Baghouse Differential Pressure due to having high Air Preheater Differential Pressures.
2838	Hale Wind	09/25/21	09/25/21	0.02	LPS work in turbine blades.
2839	Harrington 3	09/26/21	09/26/21	0.13	Unit tripped due to drum level excursions when the #2 High Pressure Feedwater head leak increased significantly causing heater level issues.
2840	Hale Wind	09/26/21	09/26/21	0.02	LPS work in turbine blades.
2841	Cunningham 4	09/27/21	09/27/21	0.08	Blade Path Trip, Low Pressure Bleed Valve
2842	Harrington 2	09/27/21	09/27/21	0.04	Unit was derated to replace failed bags in two compartments.
2843	Harrington 3	09/27/21	09/27/21	0.40	Unit was removed from line to repair the #2 High Pressure Heater head crack. The heater would not isolate.
2844	Maddox 3	09/27/21	09/27/21	0.04	Oil change, Annual
2845	Hale Wind	09/27/21	09/27/21	0.04	LPS work in turbine blades.
2846	Harrington 2	09/28/21	09/28/21	0.01	Unit was derated to reduce the Baghouse Differential Pressure. Differential Pressure is high due to inefficient cleaning of the Baghouse compartments.
2847	Cunningham 4	09/29/21	09/29/21	0.04	L935 Gas Pressure Low
2848	Harrington 1	09/29/21	09/29/21	0.08	Unit was derated due to lack of available coal mills for service. B Coal mill had a journal fail and E mill is out of service for a motor change out.
2849	Harrington 3	09/29/21	09/29/21	0.01	Unit was derated because the furnace was going positive. The Air Preheaters are plugged and are the main contributing factor to these events.
2850	Jones 3	09/29/21	10/01/21	1.62	Quarterly Gas Calibrations and Preventive Maintenance's
2851	Hale Wind	09/29/21	09/29/21	0.04	LPS work in turbine blades.
2852	Jones 1	09/30/21	10/03/21	0.26	Possible Tube Leak in #1 High Pressure Heater
2853	Hale Wind	09/30/21	09/30/21	0.04	LPS work in turbine blades.
2854	Cunningham 2	10/01/21	10/04/21	3.00	Balance of Plant
2855	Cunningham 4	10/01/21	10/05/21	4.32	Lack of Gas
2856	Harrington 2	10/01/21	10/01/21	0.02	Unit was derated to reduce Baghouse Differential Pressure. The unit had 2 Baghouse compartments out of service to replace failed bags.
2857	Harrington 2	10/01/21	10/01/21	0.03	Unit was derated to reduce Baghouse Differential Pressure. The unit had 1 Baghouse compartments out of service to replace failed bags.
2858	Harrington 3	10/01/21	10/02/21	0.08	Unit was derated to reduce Baghouse Differential Pressure. The unit had 2 Baghouse compartments out of service to replace failed bags.
2859	Harrington 2	10/02/21	10/03/21	0.03	Unit was derated to reduce Baghouse Differential Pressure. The unit had 2 Baghouse compartments out of service to replace failed bags.
2860	Harrington 3	10/02/21	12/18/21	77.11	Planned Major Outage
2861	Hale Wind	10/02/21	10/02/21	0.02	LPS work in turbine blades.
2862	Harrington 2	10/03/21	10/03/21	0.02	Unit was derated to reduce Baghouse Differential Pressure. The unit had 1 Baghouse compartments out of service to replace failed bags.
2863	Jones 1	10/03/21	10/08/21	4.80	#1 High Pressure heater tube repair
2864	Maddox 2	10/03/21	10/04/21	1.03	Vibration High, Bearing 4
2865	Nichols 2	10/03/21	10/06/21	3.10	While cycling the left side throttle stop valve would not open to roll back up
2866	Hale Wind	10/03/21	10/03/21	0.02	LPS work in turbine blades.
2867	Cunningham 2	10/04/21	12/08/21	66.04	High Pressure/Intermediate Pressure Outage

Southwestern Public Service Company

Power Plant Maintenance Information

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Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
2868	Harrington 2	10/04/21	10/04/21	0.01	Unit was derated to reduce Baghouse Differential Pressure. Differential Pressure was high due to baghouse compartments being out of service to replace failed bags.
2869	Harrington 2	10/04/21	10/04/21	0.03	Unit was derated to reduce Baghouse Differential Pressure. Differential Pressure was high due to baghouse compartments being out of service to replace failed bags.
2870	Hale Wind	10/04/21	10/04/21	0.02	LPS work in turbine blades.
2871	Harrington 2	10/05/21	10/05/21	0.02	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate ability to clean the Baghouse compartments adequately at high loads.
2872	Hale Wind	10/05/21	10/05/21	0.02	LPS work in turbine blades.
2873	Sagamore Wind	10/05/21	10/05/21	0.12	Maintenance Derate to 490MW for Inline Fuse Replacement in Substation
2874	Hale Wind	10/06/21	10/06/21	0.02	LPS work in turbine blades.
2875	Harrington 2	10/07/21	10/07/21	0.01	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate ability to clean the Baghouse compartments adequately at high loads.
2876	Hale Wind	10/07/21	10/07/21	0.02	LPS work in turbine blades.
2877	Harrington 2	10/08/21	10/11/21	0.29	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate ability to clean the Baghouse compartments adequately at high loads.
2878	Cunningham 3	10/11/21	10/11/21	0.11	Lube Oil Temperature Low
2879	Hale Wind	10/11/21	10/11/21	0.02	LPS work in turbine blades.
2880	Tolk 2	10/12/21	10/13/21	0.25	Generator C Phase Indication WO# 106905681
2881	Jones 3	10/13/21	10/13/21	0.34	Blade Path Temperature Spread A
2882	Maddox 2	10/13/21	10/13/21	0.08	Bearing 4, Vibration High, Tripped
2883	Maddox 2	10/13/21	10/13/21	0.02	Disable Fogging System for Winter
2884	Tolk 2	10/13/21	10/13/21	0.03	East Forced Draft Fan tripped WO# 106905356
2885	Tolk 2	10/13/21	10/13/21	0.03	Lost unit on High drum level (opening #2 Outlet valve)
2886	Hale Wind	10/13/21	10/13/21	0.02	LPS work in turbine blades.
2887	Harrington 2	10/14/21	10/14/21	0.06	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate ability to clean the Baghouse compartments adequately at high loads.
2888	Hale Wind	10/14/21	10/14/21	0.02	LPS work in turbine blades.
2889	Harrington 2	10/16/21	10/16/21	0.02	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate ability to clean the Baghouse compartments adequately at high loads.
2890	Hale Wind	10/18/21	10/18/21	0.02	LPS work in turbine blades.
2891	Harrington 2	10/20/21	10/21/21	0.05	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate ability to clean the Baghouse compartments adequately at high loads.
2892	Hale Wind	10/20/21	10/20/21	0.02	LPS work in turbine blades.
2893	Harrington 2	10/21/21	10/21/21	0.03	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate ability to clean the Baghouse compartments adequately at high loads.
2894	Maddox 2	10/21/21	10/22/21	1.37	Protective Relay Testing
2895	Maddox 3	10/21/21	10/21/21	0.37	Protective Relay Protection Testing.
2896	Hale Wind	10/21/21	10/21/21	0.02	LPS work in turbine blades.
2897	Harrington 2	10/22/21	10/22/21	0.04	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate ability to clean the Baghouse compartments adequately at high loads.
2898	Tolk 2	10/23/21	11/19/21	27.23	Turbine Bearing Inspection WO# 106887801
2899	Harrington 2	10/24/21	10/25/21	0.08	Unit was derated to reduce Baghouse Differential Pressure. Unit had one compartment out of service to replace failed bags.
2900	Maddox 2	10/24/21	10/24/21	0.06	Tripped, Bearing 4 High Vibration
2901	Hale Wind	10/25/21	10/25/21	0.02	LPS work in turbine blades.
2902	Cunningham 3	10/26/21	10/26/21	0.18	Winterization of Unit
2903	Hale Wind	10/27/21	10/27/21	0.03	LPS work in turbine blades.
2904	Hale Wind	10/28/21	10/28/21	0.03	LPS work in turbine blades.
2905	Cunningham 1	10/29/21	10/29/21	0.32	Unit off line, Fuel Indicates Flow
2906	Harrington 2	10/29/21	10/30/21	0.03	Unit was derated to reduce Baghouse Differential Pressure. Unit had one compartment out of service to replace failed bags.
2907	Harrington 2	10/30/21	10/30/21	0.01	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to increasing Baghouse Differential Pressure.
2908	Quay County 1	10/31/21	12/02/21	31.71	Planned Outage for nozzle maintenance, borescope inspection and other preventive maintenance.
2909	Harrington 1	11/01/21	11/01/21	0.02	Unit was derated to prevent opacity exceedances. The Electrostatic Precipitator was fouled.
2910	Harrington 2	11/01/21	11/01/21	0.03	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
2911	Maddox 2	11/01/21	11/01/21	0.07	Bearing 4 Vibration high, trip
2912	Hale Wind	11/01/21	11/01/21	0.02	LPS work in turbine blades.
2913	Harrington 2	11/02/21	11/04/21	0.15	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
2914	Jones 1	11/02/21	11/03/21	0.33	The city of Lubbock had a leak on their effluent line that supplies the plant with cooling water.
2915	Jones 2	11/02/21	11/03/21	0.33	The city of Lubbock had a leak on their effluent line that supplies the plant with cooling water.
2916	Jones 1	11/03/21	11/04/21	0.50	The city of Lubbock had a leak on their effluent line that supplies the plant with cooling water.
2917	Jones 2	11/03/21	11/04/21	0.50	The city of Lubbock had a leak on their effluent line that supplies the plant with cooling water.
2918	Hale Wind	11/03/21	11/03/21	0.02	LPS work in turbine blades.
2919	Plant X 2	11/04/21	11/19/21	15.81	Boiler tube leak caused an inability to control drum level forcing the unit offline.
2920	Hale Wind	11/04/21	11/04/21	0.02	LPS work in turbine blades.
2921	Harrington 1	11/05/21	11/08/21	2.65	Unit was removed from service to make repairs to a Platen Superheat tube leak.
2922	Hale Wind	11/05/21	11/05/21	0.02	LPS work in turbine blades.
2923	Harrington 2	11/08/21	11/09/21	0.04	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
2924	Jones 4	11/08/21	11/10/21	1.60	Quarterly Gas Calibration.
2925	Hale Wind	11/08/21	11/08/21	0.02	LPS work in turbine blades.

Southwestern Public Service Company

Power Plant Maintenance Information

(a) Total Maintenance by Operating Unit for Four Years Prior to the Test Year Period by Month (2018-Present)

Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
2926	Harrington 2	11/09/21	11/09/21	0.04	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
2927	Hale Wind	11/10/21	11/10/21	0.02	LPS work in turbine blades.
2928	Harrington 1	11/11/21	11/11/21	0.00	Unit was derated to prevent opacity exceedances.
2929	Harrington 2	11/11/21	11/11/21	0.02	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
2930	Hale Wind	11/11/21	11/11/21	0.02	LPS work in turbine blades.
2931	Harrington 2	11/12/21	11/13/21	0.06	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
2932	Hale Wind	11/12/21	11/12/21	0.02	LPS work in turbine blades.
2933	Harrington 2	11/14/21	11/15/21	0.46	Unit was removed from line due to erratic Direct Current (DC) voltages on the Automatic Voltage Regulator (AVR). Unit had a generator Potential Transformer (PT) cabinet ground cable that came loose.
2934	Harrington 2	11/14/21	11/14/21	0.01	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
2935	Jones 3	11/14/21	11/19/21	4.83	Borescope and Preventive Maintenance
2936	Harrington 2	11/15/21	11/15/21	0.11	Unit was derated due to not being able to put the Main Feedpump in service. The controls would not allow the operator to open the High Pressure or Low Pressure steam supply valves.
2937	Harrington 2	11/15/21	11/15/21	0.01	Unit was derated to reduce Baghouse Differential Pressure. Unit had one compartment out of service to replace failed bags.
2938	Hale Wind	11/15/21	11/15/21	0.02	LPS work in turbine blades.
2939	Cunningham 3	11/16/21	11/16/21	0.38	PRC-005 Testing
2940	Hale Wind	11/16/21	11/16/21	0.01	LPS work in turbine blades.
2941	Hale Wind	11/17/21	11/17/21	0.01	LPS work in turbine blades.
2942	Cunningham 4	11/18/21	11/18/21	0.05	Unit tripped on Loss of Fuel
2943	Cunningham 4	11/18/21	11/18/21	0.42	Unit Tripped on Loss of Fuel
2944	Harrington 2	11/18/21	11/18/21	0.03	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
2945	Jones 4	11/18/21	11/18/21	0.21	Dynamics caused Auto Unload. Need to investigate the problem before restart
2946	Hale Wind	11/18/21	11/18/21	0.01	LPS work in turbine blades.
2947	Tolk 2	11/19/21	12/02/21	13.00	Low Pressure Turbine Bearing work WO # 106887801
2948	Hale Wind	11/19/21	11/19/21	0.01	LPS work in turbine blades.
2949	Harrington 2	11/20/21	11/20/21	0.08	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
2950	Hale Wind	11/20/21	11/20/21	0.01	LPS work in turbine blades.
2951	Harrington 2	11/21/21	11/22/21	0.09	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
2952	Hale Wind	11/22/21	11/22/21	0.01	LPS work in turbine blades.
2953	Jones 2	11/23/21	11/23/21	0.60	Power-Tex Gas was doing some maintenance work on their transmission line that comes to the plant
2954	Hale Wind	11/23/21	11/23/21	0.01	LPS work in turbine blades.
2955	Jones 3	11/24/21	11/24/21	0.14	Replace Speed Probe
2956	Hale Wind	11/24/21	11/24/21	0.01	LPS work in turbine blades.
2957	Harrington 2	11/28/21	11/28/21	0.04	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
2958	Harrington 2	11/28/21	11/28/21	0.03	Unit was derated to reduce Baghouse Differential Pressure. Unit had compartment(s) out of service to replace failed bags.
2959	Harrington 1	11/29/21	11/29/21	0.01	Unit was derated to prevent opacity exceedances. The Electrostatic Precipitator became fouled.
2960	Harrington 2	11/29/21	11/29/21	0.07	Unit was derated to reduce Baghouse Differential Pressure. Unit had compartment(s) out of service to replace failed bags.
2961	Hale Wind	11/29/21	11/29/21	0.01	LPS work in turbine blades.
2962	Harrington 2	11/30/21	12/01/21	0.01	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
2963	Hale Wind	11/30/21	11/30/21	0.01	LPS work in turbine blades.
2964	Harrington 2	12/01/21	12/01/21	0.05	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
2965	Hale Wind	12/01/21	12/01/21	0.01	LPS work in turbine blades.
2966	Harrington 2	12/02/21	12/02/21	0.01	Unit was derated to reduce Baghouse Differential Pressure. Unit had compartment(s) out of service to replace failed bags.
2967	Jones 2	12/02/21	12/02/21	0.33	Power-Tex Gas was doing some maintenance work on their transmission line that comes to the plant
2968	Maddox 1	12/02/21	12/03/21	0.85	Continuous Emission Monitoring System (CEMS)
2969	Hale Wind	12/02/21	12/02/21	0.01	LPS work in turbine blades.
2970	Hale Wind	12/03/21	12/03/21	0.01	LPS work in turbine blades.
2971	Cunningham 4	12/04/21	12/04/21	0.16	Unit Tripped Loss of Fuel
2972	Harrington 2	12/04/21	12/04/21	0.04	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
2973	Tolk 2	12/04/21	12/10/21	3.19	SPP (Southwest power Pool) directive load limit to 230 net due to Transmission constraint
2974	Hale Wind	12/06/21	12/06/21	0.01	LPS work in turbine blades.
2975	Hale Wind	12/07/21	12/07/21	0.01	LPS work in turbine blades.

Southwestern Public Service Company

Power Plant Maintenance Information

(a) Total Maintenance by Operating Unit for Four Years Prior to the Test Year Period by Month (2018-Present)

Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
2976	Cunningham 2	12/08/21	12/16/21	7.39	High Pressure/Intermediate Pressure Turbine
2977	Harrington 2	12/08/21	12/08/21	0.05	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
2978	Hale Wind	12/08/21	12/08/21	0.01	LPS work in turbine blades.
2979	Harrington 1	12/09/21	12/09/21	0.02	Unit was derated to prevent opacity exceedances. Electrostatic Precipitator is fouled.
2980	Harrington 2	12/09/21	12/09/21	0.02	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
2981	Plant X 4	12/09/21	12/10/21	0.98	Replace the Equalizing line on the West Boiler Feed Pump
2982	Tolk 2	12/10/21	12/16/21	3.33	SPP (Southwest power Pool) directive load limit to 230 net due to Transmission constraint
2983	Harrington 2	12/11/21	12/11/21	0.02	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
2984	Harrington 2	12/13/21	12/13/21	0.03	Unit was derated to reduce Baghouse Differential Pressure. Unit had compartment(s) out of service to replace failed bags.
2985	Maddox 1	12/13/21	12/15/21	2.12	South Turbine Throttle Valve not Opening
2986	Hale Wind	12/13/21	12/13/21	0.01	LPS work in turbine blades.
2987	Hale Wind	12/14/21	12/14/21	0.01	LPS work in turbine blades.
2988	Harrington 2	12/16/21	12/16/21	0.04	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
2989	Hale Wind	12/16/21	12/16/21	0.01	LPS work in turbine blades.
2990	Cunningham 2	12/17/21	12/17/21	0.11	Fall Outage
2991	Harrington 2	12/17/21	12/17/21	0.03	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
2992	Tolk 2	12/17/21	12/24/21	4.48	SPP (Southwest power Pool) directive load limit to 230 net due to Transmission constraint
2993	Hale Wind	12/17/21	12/17/21	0.01	LPS work in turbine blades.
2994	Cunningham 2	12/18/21	12/20/21	0.62	South Boiler Feed Pump Auxiliary Oil Pump Pressure Switch
2995	Cunningham 2	12/18/21	12/18/21	0.35	Fall Outage
2996	Harrington 1	12/18/21	12/19/21	0.03	Unit was derated to prevent opacity exceedances due to a fouled Electrostatic Precipitator
2997	Harrington 2	12/18/21	12/19/21	0.03	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
2998	Harrington 3	12/18/21	12/31/21	12.52	Additional work had to be performed on the High Pressure/Intermediate Pressure Turbine.
2999	Harrington 1	12/20/21	12/21/21	0.03	Unit was derated to prevent opacity exceedances. We were unable to dead rap due to a programing issue.
3000	Harrington 1	12/20/21	12/20/21	0.03	Unit was derated when the North Condensate pump showed a trip and didn't actually trip. Breaker had a racking device issue
3001	Harrington 2	12/20/21	12/21/21	0.07	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3002	Hale Wind	12/20/21	12/20/21	0.01	LPS work in turbine blades.
3003	Harrington 1	12/21/21	12/22/21	0.16	Dead Rap
3004	Harrington 1	12/21/21	12/21/21	0.03	Unit was derated to prevent opacity exceedances. We were unable to dead rap due to a programing issue.
3005	Harrington 2	12/21/21	12/22/21	0.14	Unit was derated to reduce Baghouse Differential Pressure. Unit had compartment(s) out of service to replace failed bags.
3006	Hale Wind	12/21/21	12/21/21	0.01	LPS work in turbine blades.
3007	Harrington 2	12/25/21	12/25/21	0.03	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3008	Tolk 2	12/25/21	12/31/21	3.65	SPP (Southwest power Pool) directive load limit to 230 net due to Transmission constraint
3009	Harrington 2	12/27/21	12/27/21	0.01	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3010	Harrington 2	12/29/21	12/29/21	0.08	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3011	Harrington 2	12/30/21	12/30/21	0.02	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3012	Harrington 3	12/31/21	12/31/21	0.09	Unit tripped when testing the turbine's new control system portion of the valve freedom test.
2022					
3013	Plant X 2	01/01/22	12/31/2022*	40.29	Operating boiler at reduced pressure due to hydrogen embrittlement damage.
3014	Tolk 2	01/01/22	01/03/22	1.49	Southwest Power Pool directive load limit to 230 net due to Transmission constraint part of this was at 180 Net MW
3015	Cunningham 1	01/01/22	12/31/2022*	69.31	Tube Leaks: Unit derated to 42mw Net, Pressure reduced to 1000#
3016	Cunningham 3	01/02/22	01/02/22	0.16	Bleed Valve Position
3017	Cunningham 4	01/02/22	01/02/22	0.05	Acceleration Deviation
3018	Cunningham 4	01/02/22	01/02/22	0.11	Acceleration Deviation, Auto Unload, Temperatures
3019	Harrington 2	01/02/22	01/03/22	0.12	Unit was derated to reduce the Baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse differential pressure.
3020	Maddox 2	01/02/22	01/02/22	0.07	Low Oil Pressure
3021	Tolk 1	01/02/22	01/02/22	0.02	West Induced Draft fan tripped

Southwestern Public Service Company

Power Plant Maintenance Information

(a) Total Maintenance by Operating Unit for Four Years Prior to the Test Year Period by Month (2018-Present)

Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
3022	Harrington 1	01/03/22	01/03/22	0.12	Unit was derated due to only having 3 Mills operational. C Mill was out of service and B mill tripped on high vibration.
3023	Sagamore Wind	01/03/22	01/04/22	0.45	Derated to 400MW; 60 turbines affected
3024	Harrington 3	01/04/22	01/10/22	6.28	Unit tripped on high back pressure due to a valve failure on the north main circulator.
3025	Tolk 2	01/04/22	01/07/22	1.05	Southwest Power Pool directive load limit to 180 net due to Transmission constraint (Out Of Merit Energy Dispatch) in Place must run cold weather thru 1/7
3026	Harrington 2	01/05/22	01/05/22	0.04	Unit was derated to reduce the Baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse differential pressure.
3027	Nichols 3	01/05/22	01/05/22	0.57	South Superheat Spray auto block valve packing failed
3028	Plant X 1	01/05/22	01/26/22	20.83	The discharge valve on the east circulator pump does not operate.
3029	Tolk 1	01/05/22	01/07/22	0.50	Southwest Power Pool directive load limit to 414 net due to Transmission constraint (Out Of Merit Energy Dispatch) in place limiting unit to 414 net MW for Transmission work and cold weather
3030	Harrington 1	01/06/22	01/06/22	0.09	The unit was derated to mitigate ash build up in the furnace. The plant only had one Soot Blower Air Compressor in service with all three units on line
3031	Harrington 2	01/06/22	01/06/22	0.09	Unit was derated to prevent excessive ash buildup in the furnace. The unit did not have adequate sootblowing capabilities due to only having one Soot Blower Air Compressor in service
3032	Harrington 2	01/06/22	01/06/22	0.02	Unit was derated to reduce the Baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse differential pressure.
3033	Jones 3	01/06/22	01/06/22	0.14	Ignition Failure. Operator went out and slid the ignitor out then back in place.
3034	Maddox 1	01/06/22	01/06/22	0.15	Forced Draft Fan Alarm.
3035	Hale Wind	01/06/22	01/06/22	0.01	LPS work in turbine blades.
3036	Harrington 2	01/07/22	01/07/22	0.04	Unit was derated to reduce the Baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse differential pressure.
3037	Hale Wind	01/07/22	01/07/22	0.01	LPS work in turbine blades.
3038	Maddox 1	01/08/22	01/13/22	4.64	Feed Pump Balancing Line Leak
3039	Tolk 2	01/08/22	01/11/22	0.49	Southwest Power Pool directive load limit to 454 net due to Transmission constraint
3040	Harrington 2	01/09/22	01/16/22	0.40	Unit is derated due to only having 2 boiler circulating pumps available. The center pump motor went to ground.
3041	Harrington 2	01/09/22	01/09/22	0.01	Unit was derated to reduce the Baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse differential pressure.
3042	Tolk 1	01/09/22	01/10/22	0.37	Southwest Power Pool directive load limit to 414 net due to Transmission constraint (Out Of Merit Energy Dispatch) in place limiting unit to 414 net MW for Transmission work
3043	Nichols 1	01/10/22	01/12/22	1.62	Maintenance Outage to repair and economizer tube leak at the inlet header
3044	Tolk 1	01/10/22	01/14/22	3.88	Tube leak repairs - Platen tube blew out cutting reheater tubes also WO# 107290342
3045	Hale Wind	01/10/22	01/10/22	0.02	LPS work in turbine blades.
3046	Hale Wind	01/11/22	01/11/22	0.02	LPS work in turbine blades.
3047	Harrington 2	01/12/22	01/12/22	0.02	Unit was derated to reduce Baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags.
3048	Jones 3	01/12/22	01/12/22	0.31	Change out the oil temp control valve that was leaking
3049	Plant X 4	01/12/22	01/17/22	4.62	Visual inspection of Main Power Transformer after smoke was noticed around "B" isophase during last run event.
3050	Tolk 2	01/12/22	01/17/22	0.83	Southwest Power Pool directive load limit to 454 net due to Transmission constraint Min 125 MW to 454 MW Net
3051	Hale Wind	01/12/22	01/12/22	0.02	LPS work in turbine blades.
3052	Cunningham 1	01/13/22	01/14/22	0.73	Boiler Drum Relief Valve Replacement
3053	Harrington 1	01/13/22	01/13/22	0.04	Unit was derated to prevent opacity exceedances. The Electrostatic Precipitator was fouled.
3054	Harrington 2	01/13/22	01/13/22	0.04	Unit was derated to reduce Baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags.
3055	Hale Wind	01/13/22	01/13/22	0.02	LPS work in turbine blades.
3056	Cunningham 2	01/14/22	01/21/22	2.28	Oil Not Visible in sight glass
3057	Harrington 3	01/14/22	01/14/22	0.19	Unit was tripped due to a Substation department error when commissioning FK20
3058	Hale Wind	01/14/22	01/14/22	-0.01	LPS work in turbine blades.
3059	Harrington 2	01/16/22	01/20/22	3.76	Unit was removed from service to replace the failed center Boiler Circulating Pump motor
3060	Hale Wind	01/16/22	01/16/22	0.02	LPS work in turbine blades.
3061	Hale Wind	01/17/22	01/17/22	0.02	LPS work in turbine blades.
3062	Tolk 1	01/18/22	01/24/22	1.30	West Induced Draft Fan Controller out of Service due to coolant leak WO#107290270
3063	Hale Wind	01/18/22	01/18/22	0.02	LPS work in turbine blades.
3064	Tolk 2	01/19/22	01/19/22	0.20	Tolk 2 tripped due to loss of power on B Buss and H Buss
3065	Hale Wind	01/19/22	01/20/22	0.10	LPS work in turbine blades.
3066	Sagamore Wind	01/19/22	01/24/22	4.77	Derated to 480MW; 18 turbines affected
3067	Harrington 1	01/20/22	01/20/22	0.02	Unit was derated to prevent opacity exceedances. Electrostatic Precipitator was fouled
3068	Hale Wind	01/20/22	01/20/22	0.04	LPS work in turbine blades.
3069	Harrington 1	01/21/22	01/22/22	0.13	Unit was derated to prevent opacity exceedances. Electrostatic Precipitator is fouled
3070	Hale Wind	01/21/22	01/21/22	0.02	LPS work in turbine blades.
3071	Harrington 1	01/22/22	01/25/22	0.84	Unit was derated due to coal mill availability. E mill is out of service for damper issues and C mill was removed from service due to a failed inboard motor bearing.
3072	Harrington 1	01/22/22	01/22/22	0.11	Unit was derated to perform an unscheduled dead rap to clean the Electrostatic Precipitator
3073	Harrington 2	01/22/22	01/27/22	2.74	Unit is derated due to the West Forced Draft fan not being available. The lube oil Auxiliary Cooling Water cooler has a leak and the oil has water in it.
3074	Hale Wind	01/22/22	01/22/22	0.03	LPS work in turbine blades.
3075	Hale Wind	01/23/22	01/23/22	0.03	LPS work in turbine blades.
3076	Plant X 2	01/24/22	01/26/22	2.11	Safety, due to Circulating water system being connected to Plant X 1 and Repairing Plant X 1 west circulator discharge valve
3077	Hale Wind	01/24/22	01/24/22	0.04	LPS work in turbine blades.
3078	Hale Wind	01/25/22	01/25/22	0.03	LPS work in turbine blades.

Southwestern Public Service Company

Power Plant Maintenance Information

(a) Total Maintenance by Operating Unit for Four Years Prior to the Test Year Period by Month (2018-Present)

Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
3079	Tolk 2	01/26/22	01/26/22	0.04	Water Chemistry is out of range
3080	Harrington 1	01/27/22	01/28/22	0.22	Unit was derated to prevent opacity exceedances. Electrostatic Precipitator is fouled.
3081	Tolk 2	01/27/22	01/27/22	0.00	East Forced Draft Fan tripped on communication loss and unit run back. Fan was reset & restarted
3082	Hale Wind	01/27/22	01/27/22	0.04	LPS work in turbine blades.
3083	Cunningham 4	01/28/22	01/28/22	0.04	IGV (Inlet Guide Vane) Wiring Conduit
3084	Harrington 2	01/28/22	01/28/22	0.02	Unit was derated to reduce Baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags.
3085	Tolk 2	01/28/22	01/28/22	0.01	East Forced Draft Fan tripped on communication loss, causing a unit runback to 300 NMW, fan was reset and restarted
3086	Hale Wind	01/28/22	01/28/22	0.04	LPS work in turbine blades.
3087	Harrington 2	01/29/22	01/29/22	0.34	Unit was removed from service to remove refractory from an economizer hopper.
3088	Hale Wind	01/29/22	01/29/22	0.04	LPS work in turbine blades.
3089	Harrington 1	01/30/22	01/30/22	0.03	Unit was derated to prevent opacity exceedances. The Electrostatic Precipitator is fouling
3090	Harrington 2	01/30/22	01/31/22	0.17	Unit was derated to reduce Baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags.
3091	Hale Wind	01/30/22	01/30/22	0.04	LPS work in turbine blades.
3092	Hale Wind	01/31/22	01/31/22	0.05	LPS work in turbine blades.
3093	Hale Wind	02/01/22	02/01/22	0.05	LPS work in turbine blades.
3094	Hale Wind	02/02/22	02/03/22	0.06	LPS work in turbine blades.
3095	Harrington 1	02/03/22	02/03/22	0.27	Unit was derated when the opacity monitor seemed not to be measuring opacity correctly, and the unit removed coal from the furnace as a precaution
3096	Hale Wind	02/03/22	02/03/22	0.03	LPS work in turbine blades.
3097	Harrington 1	02/04/22	04/24/22	78.94	Out of service to perform a major outage.
3098	Harrington 2	02/04/22	02/04/22	0.10	Unit was derated to reduce Baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags.
3099	Hale Wind	02/04/22	02/04/22	0.05	LPS work in turbine blades.
3100	Hale Wind	02/05/22	02/05/22	0.05	LPS work in turbine blades.
3101	Hale Wind	02/06/22	02/06/22	0.05	LPS work in turbine blades.
3102	Cunningham 2	02/07/22	02/09/22	2.06	12th Stage High Pressure Leak.
3103	Harrington 2	02/07/22	02/07/22	0.10	Unit was derated to reduce Baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags.
3104	Harrington 3	02/07/22	02/07/22	0.04	Unit was derated to decrease the amount of coal usage due to Savage being able to fill bunkers. Harrington 1 station power was lost which feeds power to Savage.
3105	Hale Wind	02/07/22	02/07/22	0.05	LPS work in turbine blades.
3106	Maddox 3	02/08/22	02/09/22	1.12	Protective relay operated, Inspecting
3107	Hale Wind	02/08/22	02/08/22	0.05	LPS work in turbine blades.
3108	Cunningham 3	02/09/22	02/10/22	1.15	Replace torque converter oil pump
3109	Harrington 2	02/09/22	02/09/22	0.04	Unit was derated to reduce the Baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse differential pressure.
3110	Harrington 2	02/09/22	02/09/22	0.02	Unit was derated to reduce Baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags.
3111	Hale Wind	02/09/22	02/09/22	0.05	LPS work in turbine blades.
3112	Cunningham 3	02/10/22	02/10/22	0.06	L915 low gas pressure
3113	Cunningham 4	02/10/22	02/10/22	0.06	L915 low gas pressure
3114	Harrington 2	02/10/22	02/10/22	0.03	Unit was derated to reduce Baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags.
3115	Jones 3	02/10/22	02/10/22	0.35	Ignition Failure, found failed ignitor
3116	Hale Wind	02/10/22	02/10/22	0.02	LPS work in turbine blades.
3117	Hale Wind	02/10/22	02/11/22	0.11	Feeder breaker trip.
3118	Harrington 3	02/11/22	02/11/22	0.02	Operator brought the unit on line and could not control drum level.
3119	Jones 3	02/11/22	02/11/22	0.09	Replace Failed Ignitor
3120	Plant X 4	02/11/22	03/01/22	0.93	Unable to meet Transmission Operations request for VARs (Volt-Amperes Reactive) adjustment on Normal Source Transformer. Unable to get full load on Emergency Source Transformer.
3121	Hale Wind	02/11/22	02/11/22	0.02	LPS work in turbine blades.
3122	Hale Wind	02/11/22	02/12/22	0.01	Turbine blade repairs.
3123	Cunningham 2	02/12/22	02/12/22	0.03	South Boiler Feed Auxiliary Oil Pump
3124	Harrington 2	02/12/22	02/12/22	0.05	Unit was derated to reduce the Baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse differential pressure.
3125	Hale Wind	02/12/22	02/12/22	0.03	LPS work in turbine blades.
3126	Hale Wind	02/12/22	02/13/22	0.01	Blade Repairs
3127	Cunningham 2	02/13/22	02/22/22	8.82	Boiler Tube Leak. Roof Tube
3128	Harrington 2	02/13/22	02/13/22	0.07	Unit was derated to reduce the Baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse differential pressure.
3129	Harrington 3	02/13/22	02/13/22	0.02	Unit was derated to reduce Baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags.
3130	Hale Wind	02/13/22	02/13/22	0.05	LPS work in turbine blades.
3131	Hale Wind	02/13/22	02/14/22	0.01	Blade Repairs
3132	Harrington 2	02/14/22	03/03/22	1.98	Unit was derated to reduce the Baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse differential pressure.
3133	Hale Wind	02/14/22	02/14/22	0.02	LPS Work in turbine blades.
3134	Hale Wind	02/15/22	02/15/22	0.06	LPS Work in turbine blades.
3135	Hale Wind	02/16/22	02/16/22	0.06	LPS Work in turbine blades.
3136	Hale Wind	02/16/22	02/17/22	0.03	Turbine blade repairs. Flash over damage.
3137	Maddox 1	02/17/22	02/18/22	0.54	Economizer Inlet Piping
3138	Hale Wind	02/17/22	02/17/22	0.04	Blade repairs.

Southwestern Public Service Company

Power Plant Maintenance Information

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Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
3139	Hale Wind	02/17/22	02/18/22	0.03	Turbine blade repairs. Flash over damage.
3140	Maddox 1	02/18/22	02/20/22	2.04	Outage Prep Work
3141	Hale Wind	02/18/22	02/18/22	0.07	LPS Work in turbine blades.
3142	Hale Wind	02/18/22	02/19/22	0.03	Turbine blade repairs. Flash over damage.
3143	Hale Wind	02/19/22	02/19/22	0.06	LPS Work in turbine blades.
3144	Hale Wind	02/19/22	02/20/22	0.03	Turbine blade repairs. Flash over damage.
3145	Maddox 1	02/20/22	05/29/22	97.96	High Pressure/Intermediate Pressure/Low Pressure Turbine Outage
3146	Hale Wind	02/20/22	02/20/22	0.06	LPS Work in turbine blades.
3147	Hale Wind	02/20/22	02/21/22	0.03	Turbine blade repairs. Flash over damage.
3148	Hale Wind	02/21/22	02/21/22	0.07	LPS work in turbine blades.
3149	Hale Wind	02/21/22	02/22/22	0.04	Blade repair, lightning damage.
3150	Hale Wind	02/22/22	02/22/22	0.07	LPS work in turbine blades.
3151	Hale Wind	02/22/22	02/23/22	0.04	Blade repairs, lightning damage.
3152	Harrington 2	02/23/22	02/23/22	0.03	Unit was derated to reduce Baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags.
3153	Tolk 2	02/23/22	02/23/22	0.02	East Forced Draft Fan tripped
3154	Hale Wind	02/23/22	02/23/22	0.07	LPS work in turbine blades.
3155	Hale Wind	02/23/22	02/24/22	0.04	Blade repairs lightning damage.
3156	Cunningham 3	02/24/22	02/24/22	0.42	Fuel Valve Failure
3157	Cunningham 4	02/24/22	02/24/22	0.34	Startup Failure due to Air Leaks.
3158	Hale Wind	02/24/22	02/24/22	0.07	LPS work in turbine blades.
3159	Hale Wind	02/24/22	02/25/22	0.04	Blade repairs lightning damage.
3160	Cunningham 3	02/25/22	03/03/22	6.03	Combustion Baskets Popping. Loud noise.
3161	Harrington 3	02/25/22	02/26/22	0.03	Unit was derated to reduce Baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags.
3162	Harrington 3	02/25/22	02/25/22	0.01	Unit was derated to reduce Baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags.
3163	Hale Wind	02/25/22	02/25/22	0.07	LPS work in turbine blades.
3164	Hale Wind	02/25/22	02/26/22	0.04	Blade repairs, lightning damage.
3165	Harrington 3	02/26/22	02/27/22	0.13	Unit was derated to reduce Baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags.
3166	Hale Wind	02/26/22	02/26/22	0.07	LPS work in turbine blades.
3167	Hale Wind	02/26/22	02/27/22	0.04	Blade repairs, lightning damage.
3168	Harrington 2	02/27/22	03/28/22	4.22	The unit was derated past the dominate derate because a Baghouse compartment is out of service to make repairs on the dampers.
3169	Hale Wind	02/27/22	02/27/22	0.07	LPS work in turbine blades.
3170	Hale Wind	02/27/22	02/28/22	0.04	Blade repairs, lightning damage.
3171	Hale Wind	02/28/22	02/28/22	0.08	LPS work in turbine blades.
3172	Hale Wind	02/28/22	03/01/22	0.04	Blade repairs, lightning damage.
3173	Harrington 2	03/01/22	03/01/22	0.01	Excess Baghouse compartments out of service to replace failed bags.
3174	Hale Wind	03/01/22	03/01/22	0.08	LPS work in turbine blades.
3175	Hale Wind	03/01/22	03/02/22	0.04	Blade repairs, lightning damage.
3176	Harrington 3	03/02/22	03/03/22	0.78	Unit was removed from line to repair a water wall tube leak.
3177	Hale Wind	03/02/22	03/02/22	0.08	LPS work in turbine blades.
3178	Hale Wind	03/02/22	03/03/22	0.04	Blade repairs, lightning damage.
3179	Harrington 2	03/03/22	03/03/22	0.03	Unit was derated to reduce the Baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse differential pressure.
3180	Hale Wind	03/03/22	03/03/22	0.06	LPS Work in turbine blades.
3181	Hale Wind	03/03/22	03/04/22	0.04	Blade repairs, lightning damage.
3182	Tolk 1	03/04/22	03/15/22	7.20	Turbine Driven Boiler Feed Pump COUPLING FAILED WO 107535305
3183	Tolk 2	03/04/22	03/04/22	0.02	Boiler tripped on loss of flame, even with warmup gas in service/put unit back on and finished emptying bunkers WO# 107543589
3184	Tolk 2	03/04/22	03/15/22	10.92	Forced outage for Substation work WO 107504155 This outage was because the substation had some of our trip relays unavailable, they were not in configuration that would trip the plant owned generation in a load shed event.
3185	Hale Wind	03/04/22	03/04/22	0.08	NA
3186	Hale Wind	03/04/22	03/05/22	0.04	Blade repairs, lightning damage.
3187	Jones 2	03/05/22	03/11/22	5.52	Summer Readiness- (repaired 3 reheater tube leaks, Eletrohydraulic leak, Eccentricity, and turbine oil cooler)
3188	Hale Wind	03/05/22	03/05/22	0.08	LPS work in turbine blades.
3189	Hale Wind	03/05/22	03/07/22	0.11	Blade repairs, lightning damage.
3190	Harrington 2	03/06/22	03/06/22	0.02	Excessive Compartments out of service
3191	Nichols 3	03/06/22	03/11/22	4.65	Mini outage to replace boiler valves, Low Pressure diaphragm replace
3192	Harrington 2	03/07/22	03/07/22	0.02	Unit was derated due to high Baghouse differential pressure because multiple compartments were out of service to replace failed bags.
3193	Maddox 2	03/07/22	03/07/22	0.04	Replace Pinnacle Regulator
3194	Maddox 3	03/07/22	03/07/22	0.04	Replaced the Pinnacle Gas Regulator
3195	Nichols 1	03/07/22	03/07/22	0.04	Boiler tripped on high burner pressure causing the unit to come offline
3196	Hale Wind	03/07/22	03/07/22	0.07	LPS work in turbine blades.
3197	Hale Wind	03/07/22	03/08/22	0.04	Blade repairs, lightning damage.
3198	Harrington 2	03/08/22	03/09/22	0.03	Unit was derated to reduce the Baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse differential pressure.
3199	Hale Wind	03/08/22	03/08/22	0.07	LPS work in turbine blades.

Southwestern Public Service Company

Power Plant Maintenance Information

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3200	Hale Wind	03/08/22	03/09/22	0.04	Blade repairs, lightning damage.
3201	Harrington 2	03/09/22	03/09/22	0.01	Unit was derated to reduce Baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags.
3202	Hale Wind	03/09/22	03/09/22	0.07	LPS work in turbine blades.
3203	Hale Wind	03/09/22	03/10/22	0.04	Blade repairs, lightning damage.
3204	Hale Wind	03/10/22	03/10/22	0.05	LPS work in turbine blades.
3205	Hale Wind	03/10/22	03/11/22	0.04	Blade repairs, lightning damage.
3206	Hale Wind	03/11/22	03/11/22	0.07	LPS work in turbine blades.
3207	Hale Wind	03/11/22	03/12/22	0.04	Blade repairs, lightning damage.
3208	Harrington 2	03/12/22	03/12/22	0.02	Unit was derated to reduce Baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags.
3209	Jones 4	03/12/22	03/18/22	5.60	Borecope & Gas Calibration
3210	Tolk 1	03/12/22	03/15/22	3.03	Unit offline for cool down and alignment of Turbine Feed Pump after coupling replacement
3211	Hale Wind	03/12/22	03/12/22	0.07	LPS work in turbine blades.
3212	Hale Wind	03/12/22	03/14/22	0.11	Blade repairs, lightning damage.
3213	Tolk 1	03/14/22	04/01/22	6.91	Unit load limited to 320 NMW due to switchyard construction constraint
3214	Hale Wind	03/14/22	03/14/22	0.03	LPS work in turbine blades.
3215	Hale Wind	03/14/22	03/15/22	0.04	Blade repairs, lightning damage.
3216	Harrington 2	03/15/22	03/15/22	0.02	Unit was derated to reduce the Baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse differential pressure.
3217	Maddox 2	03/15/22	03/15/22	0.05	#5 Bearing Vibration High, Tripped
3218	Tolk 2	03/15/22	03/31/22	16.05	Planned Outage - Transformer work - will also Move to a new Double Buss Double Breaker on Tolk 1 (WO 107504153)
3219	Hale Wind	03/15/22	03/15/22	0.05	LPS work in turbine blades.
3220	Hale Wind	03/15/22	03/16/22	0.04	Blade repairs, lightning damage.
3221	Hale Wind	03/16/22	03/16/22	0.05	LPS work in turbine blades.
3222	Hale Wind	03/16/22	03/17/22	0.05	Blade repairs, lightning damage.
3223	Hale Wind	03/17/22	03/17/22	0.05	LPS work in turbine blades.
3224	Hale Wind	03/17/22	03/19/22	0.13	Blade repairs, lightning damage.
3225	Harrington 2	03/19/22	03/19/22	0.05	Unit was derated to reduce Baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags.
3226	Jones 1	03/19/22	03/21/22	2.13	Economizer Link Vent valves pin holes leaking at the bottom welds. There is 2 Valves needing repaired.
3227	Jones 3	03/19/22	03/25/22	5.81	Borecope
3228	Hale Wind	03/19/22	03/19/22	0.05	LPS work in turbine blades.
3229	Hale Wind	03/19/22	03/20/22	0.05	Blade repairs, lightning damage.
3230	Plant X 4	03/20/22	03/21/22	0.47	Substation Department required unit Isolation for Substation line tie ins.
3231	Hale Wind	03/20/22	03/20/22	0.05	LPS work in turbine blades.
3232	Hale Wind	03/20/22	03/21/22	0.05	Blade repairs, lightning damage.
3233	Maddox 2	03/21/22	03/21/22	0.15	Bleed Valves
3234	Hale Wind	03/21/22	03/21/22	0.05	LPS work in turbine blades.
3235	Hale Wind	03/21/22	03/22/22	0.05	LPS work in turbine blades.
3236	Hale Wind	03/22/22	03/22/22	0.05	LPS work in turbine blades.
3237	Hale Wind	03/22/22	03/23/22	0.03	Blade repairs, lightning damage.
3238	Maddox 2	03/23/22	03/23/22	0.17	Bearing Oil #5 Drain
3239	Hale Wind	03/23/22	03/23/22	0.05	LPS work in turbine blades.
3240	Hale Wind	03/23/22	03/24/22	0.03	Blade repairs, lightning damage.
3241	Harrington 2	03/24/22	03/25/22	0.04	Unit was derated to reduce Baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags.
3242	Maddox 2	03/24/22	03/24/22	0.17	Turbine Bearing 5
3243	Plant X 1	03/24/22	03/25/22	0.96	Continuous Emission Monitoring System , EcoChem MC3 system analyzer failed during reboot/calibration.
3244	Hale Wind	03/24/22	03/24/22	0.05	LPS work in turbine blades.
3245	Hale Wind	03/24/22	03/25/22	0.03	Blade repairs, lightning damage.
3246	Harrington 2	03/25/22	03/26/22	0.04	Unit was derated to reduce Baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags.
3247	Tolk 1	03/25/22	04/01/22	7.13	Auxiliary circulating water leak - stayed online to empty coal bunkers - WO 107620557
3248	Hale Wind	03/25/22	03/25/22	0.05	LPS work in turbine blades.
3249	Hale Wind	03/25/22	03/26/22	0.03	Blade repairs, lightning damage.
3250	Jones 1	03/26/22	04/03/22	7.93	Inspect #1 Bearing and make a shim change, Hotwell wall leak, and repair oil leaks on the Normal Source Transformer
3251	Hale Wind	03/26/22	03/26/22	0.05	LPS work in turbine blades.
3252	Hale Wind	03/27/22	03/27/22	0.05	LPS work in turbine blades.
3253	Hale Wind	03/27/22	03/28/22	0.03	Blade repairs, lightning damage.
3254	Hale Wind	03/28/22	03/28/22	0.05	LPS work in turbine blades.
3255	Hale Wind	03/28/22	03/30/22	0.09	Blade repairs, lightning damage.
3256	Harrington 2	03/30/22	03/31/22	0.03	Unit was derated to reduce Baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags.
3257	Hale Wind	03/30/22	03/30/22	0.02	LPS work in turbine blades.
3258	Hale Wind	03/30/22	03/31/22	0.07	Blade repairs, lightning damage.
3259	Harrington 2	03/31/22	04/01/22	0.02	Unit was derated to reduce Baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags.
3260	Maddox 3	03/31/22	04/01/22	0.98	Fuel Valve Issues
3261	Plant X 4	03/31/22	04/02/22	1.73	Economizer tube leak repair
3262	Hale Wind	03/31/22	03/31/22	0.03	LPS work in turbine blades.
3263	Hale Wind	03/31/22	04/01/22	0.07	Blade repairs, lightning damage.
3264	Tolk 1	04/01/22	05/28/22	57.00	Tolk Outage - WO 107504153 - Transmission work & Move to new Double Buss Double Breaker
3265	Hale Wind	04/01/22	04/01/22	0.02	LPS work in turbine blades.

Southwestern Public Service Company

Power Plant Maintenance Information

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3266	Hale Wind	04/01/22	04/02/22	0.07	Blade repairs, lightning damage.
3267	Harrington 2	04/02/22	04/02/22	0.05	Unit was derated to reduce Baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags.
3268	Hale Wind	04/02/22	04/02/22	0.02	LPS work in turbine blades.
3269	Hale Wind	04/02/22	04/03/22	0.07	Blade repairs, lightning damage.
3270	Harrington 2	04/03/22	04/06/22	2.54	Unit was removed from service to install new protective equipment in the substation.
3271	Jones 1	04/03/22	04/20/22	16.62	Planned Extension to repair #1 turbine bearing journal and to have #1 bearing re-poured.
3272	Hale Wind	04/03/22	04/03/22	0.02	LPS work in turbine blades.
3273	Hale Wind	04/03/22	04/04/22	0.07	Blade repairs, lightning damage.
3274	Nichols 3	04/04/22	04/07/22	3.36	Condenser tube leak
3275	Tolk 2	04/04/22	04/04/22	0.04	Dropped load due to main steam silicon dioxide high. Big blowdown opened and boiler pressure dropped to clean up as soon as possible
3276	Hale Wind	04/04/22	04/04/22	0.05	LPS work in turbine blades.
3277	Hale Wind	04/04/22	04/06/22	0.11	Blade repairs, lightning damage.
3278	Hale Wind	04/06/22	04/06/22	0.05	LPS work in turbine blades.
3279	Hale Wind	04/06/22	04/07/22	0.03	Blade repairs, lightning damage.
3280	Hale Wind	04/07/22	04/07/22	0.05	LPS work in turbine blades.
3281	Hale Wind	04/07/22	04/08/22	0.03	Blade repairs, lightning damage.
3282	Tolk 2	04/08/22	04/09/22	0.09	Mass amount of air in Auxiliary Cooling Water system, venting air, Auxiliary Cooling Water supply valve to north Soot Blower Air Compressor WO 107683779
3283	Hale Wind	04/08/22	04/08/22	0.05	LPS work in turbine blades.
3284	Hale Wind	04/08/22	04/09/22	0.03	Blade repairs, lightning damage.
3285	Hale Wind	04/09/22	04/09/22	0.05	LPS work in turbine blades.
3286	Hale Wind	04/09/22	04/10/22	0.03	Blade repairs, lightning damage.
3287	Jones 3	04/10/22	04/10/22	0.02	Unit Evaporative Cooling was not in service limiting MW output.
3288	Hale Wind	04/10/22	04/10/22	0.05	LPS work in turbine blades.
3289	Hale Wind	04/10/22	04/11/22	0.03	Blade repairs, lightning damage.
3290	Harrington 2	04/11/22	04/11/22	0.03	Unit was derated to reduce Baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags.
3291	Hale Wind	04/11/22	04/11/22	0.04	LPS work in turbine blades.
3292	Hale Wind	04/11/22	04/14/22	0.16	Blade repairs, lightning damage.
3293	Harrington 2	04/14/22	04/14/22	0.16	Unit was derated to reduce Baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags. 4 Compartments out of service
3294	Hale Wind	04/14/22	04/14/22	0.04	LPS work in turbine blades.
3295	Hale Wind	04/14/22	04/15/22	0.04	Blade repairs, lightning damage.
3296	Plant X 4	04/15/22	04/15/22	0.05	Temperature alarm on generator brush in requiring inspection by electrician.
3297	Hale Wind	04/15/22	04/15/22	0.04	LPS work in turbine blades.
3298	Hale Wind	04/15/22	04/16/22	0.04	Blade repairs, lightning damage.
3299	Hale Wind	04/16/22	04/16/22	0.04	LPS work in turbine blades.
3300	Hale Wind	04/16/22	04/17/22	0.04	Blade repairs, lightning damage.
3301	Cunningham 4	04/17/22	04/17/22	0.03	High Vibration on Exhaust End. Tripped
3302	Harrington 2	04/17/22	04/18/22	0.18	Unit was derated to reduce Baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags.
3303	Harrington 3	04/17/22	04/17/22	0.01	Unit was derated to reduce Baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags.
3304	Hale Wind	04/17/22	04/17/22	0.04	LPS work in turbine blades.
3305	Hale Wind	04/17/22	04/18/22	0.04	Blade repairs, lightning damage.
3306	Cunningham 4	04/18/22	04/18/22	0.14	L935. Low Gas Pressure Alarm
3307	Harrington 2	04/18/22	04/18/22	0.05	Unit was derated to reduce Baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags.
3308	Hale Wind	04/18/22	04/18/22	0.03	LPS work in turbine blades.
3309	Hale Wind	04/18/22	04/20/22	0.12	Blade repairs, lightning damage.
3310	Maddox 2	04/19/22	04/26/22	6.30	Turbine Vibration Issues
3311	Cunningham 4	04/20/22	04/20/22	0.03	Generator Inlet vibration tripped unit.
3312	Hale Wind	04/20/22	04/20/22	0.03	LPS work in turbine blades.
3313	Hale Wind	04/20/22	04/21/22	0.04	Blade repairs, lightning damage.
3314	Hale Wind	04/21/22	04/21/22	0.03	LPS work in turbine blades.
3315	Hale Wind	04/21/22	04/22/22	0.04	Blade repairs, lightning damage.
3316	Hale Wind	04/22/22	04/22/22	0.03	LPS work in turbine blades.
3317	Hale Wind	04/22/22	04/23/22	0.04	Blade repairs, lightning damage.
3318	Hale Wind	04/23/22	04/23/22	0.03	LPS work in turbine blades.
3319	Hale Wind	04/23/22	04/24/22	0.04	Blade repairs, lightning damage.
3320	Harrington 1	04/24/22	04/26/22	1.37	Unit went from a Planned Outage to the Planned Outage Extension due to the Scraper Slag Conveyor not being ready for service
3321	Plant X 4	04/24/22	05/06/22	11.38	Boiler Repairs, Prep unit for Summer run
3322	Hale Wind	04/24/22	04/24/22	0.03	LPS work in turbine blades.
3323	Hale Wind	04/24/22	04/25/22	0.04	Blade repairs, lightning damage.
3324	Cunningham 4	04/25/22	04/28/22	2.49	Summer Prep Work
3325	Harrington 2	04/25/22	04/25/22	0.01	Unit was derated to reduce the Baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse differential pressure.
3326	Hale Wind	04/25/22	10/31/22	11.47	LPS work in turbine blades, blade repairs, replacements due to lightning damage.
3327	Cunningham 2	04/26/22	04/26/22	0.05	Transmitter line leak
3328	Cunningham 2	04/26/22	04/26/22	0.15	Boiler Gas Transmitter Line Leak, Level 4
3329	Harrington 1	04/26/22	04/26/22	0.03	Unit was tripped when an alarm on the Automatic Voltage Regulator was reset. This was original scope of work from major outage.
3330	Harrington 3	04/26/22	04/28/22	2.05	Unit was removed from service to repair a water wall tube leak and Pressure Relief Valves on the #1 and #2 HP heaters.

Southwestern Public Service Company

Power Plant Maintenance Information

(a) Total Maintenance by Operating Unit for Four Years Prior to the Test Year Period by Month (2018-Present)

Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
3331	Sagamore Wind	04/27/22	04/27/22	0.10	Unplanned Outage: Tripped at Interconnect due to over production into Interconnect Sub. Outside of Park Control
3332	Sagamore Wind	04/27/22	04/30/22	2.70	Recover Efforts due to Trip at Interconnection Sub.
3333	Cunningham 3	04/28/22	04/29/22	0.64	Summer Prep
3334	Harrington 1	04/28/22	04/30/22	2.56	Unit was removed from service to determine where a hydrogen leak was and to make the repairs
3335	Cunningham 4	04/30/22	04/30/22	0.04	Turbine Exhaust A High Vibration
3336	Cunningham 2	05/02/22	05/16/22	14.50	Transmission Outage: Failed Breaker Relays Installed.
3337	Harrington 2	05/02/22	05/11/22	9.95	Unit was removed from line to make minor repairs to equipment for summer operations.
3338	Cunningham 4	05/03/22	05/03/22	0.04	Turbine Exhaust X High Vibration, Tripped
3339	Cunningham 4	05/03/22	05/03/22	0.05	Grease Trunions
3340	Cunningham 3	05/05/22	05/05/22	0.07	Breaker 384 Voltage/Amperage Spike
3341	Cunningham 4	05/05/22	05/05/22	0.09	Breaker 384, Voltage/Amps High
3342	Harrington 3	05/06/22	05/06/22	0.01	Unit was derated to reduce the Baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse differential pressure.
3343	Hale Wind	05/08/22	05/09/22	0.04	HLW333 tripped, taking 24 turbines off-line. Turbine transformer failure.
3344	Harrington 1	05/09/22	05/10/22	1.09	Unit tripped on a generator ground relay. Trip was caused when a metering Potential Transformer vibrated lose.
3345	Plant X 4	05/10/22	05/10/22	0.02	East Boiler Feed Pump failed to start. Online with one boiler feed pump. Faulty oil pressure switch.
3346	Tolk 2	05/10/22	05/10/22	0.01	West Induced Draft Fan tripped during thunderstorm causing a runback
3347	Harrington 2	05/11/22	05/14/22	2.24	The Main Feed Pump had Element Issues and was not returned to service.
3348	Plant X 2	05/13/22	05/19/22	6.11	Unable to maintain drum level due to Water Wall tube rupture
3349	Harrington 2	05/14/22	06/12/22	11.59	Unit is derated due to the Main Feed pump not being available. This is original scope of work from the planned Mini outage.
3350	Harrington 3	05/14/22	05/14/22	0.01	Unit was derated to reduce the Baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse differential pressure.
3351	Nichols 1	05/14/22	05/20/22	5.45	Reheat tube leak
3352	Hale Wind	05/16/22	05/16/22	0.11	HLW322 tripped, taking 24 turbines off-line. HV Cable Termination failure.
3353	Plant X 1	05/18/22	05/18/22	0.30	Miscalculation on Startup Timeframe, Circulating Pump/Valve operation issues, causing circulating motor over amp issues.
3354	Harrington 3	05/19/22	05/20/22	0.45	Unit was removed from service to remove debris from the economizer hoppers.
3355	Cunningham 4	05/20/22	05/20/22	0.03	Turbine Exhaust X High Vibration Trip
3356	Cunningham 3	05/22/22	05/23/22	0.45	Balance shot and borescope inspection
3357	Cunningham 4	05/22/22	06/08/22	17.36	Turbine Balance Shot and Borescope Inspection
3358	Nichols 2	05/22/22	05/27/22	4.94	Planned Outage-Summer Prep
3359	Cunningham 3	05/23/22	05/25/22	1.73	Borescope and balance shots
3360	Cunningham 3	05/25/22	05/26/22	0.73	Borescope Inspection and balance
3361	Harrington 3	05/26/22	05/26/22	0.03	Replace blown bags
3362	Harrington 2	05/27/22	06/09/22	0.73	Unit was derated having only two Boiler Circulating Pump operation. Center Boiler Circulating Pump motor failed.
3363	Tolk 1	05/28/22	06/03/22	5.41	Planned outage for transmission work - move to new Double Buss Double Breaker - Transmission work delayed original startup
3364	Harrington 2	05/29/22	06/29/22	10.09	Multiple Baghouse Compartment failed bags.
3365	Maddox 1	05/29/22	07/20/22	32.32	High Pressure/Intermediate Pressure/Low Pressure Turbine Outage
3366	Jones 3	05/30/22	06/01/22	1.43	Borescope, Gas Calibration, and Rotor Air gasket replacement
3367	Nichols 1	05/30/22	06/03/22	3.54	Planned outage to prepare the unit for summer.
3368	Tolk 2	05/30/22	05/31/22	0.11	West Induced Draft Fan has tripped twice and unavailable
3369	Harrington 3	05/31/22	05/31/22	0.05	Unit was derated to reduce the Baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse differential pressure.
3370	Plant X 1	05/31/22	06/01/22	1.40	Boiler tube Leak
3371	Tolk 2	05/31/22	05/31/22	0.01	West Induced Draft Fan, both drive channels tripped
3372	Hale Wind	05/31/22	05/31/22	0.08	Lightning blade repairs and high number of turbines down due to maintenance issues.
3373	Jones 4	06/01/22	06/02/22	0.75	Gas Calibration
3374	Maddox 2	06/03/22	06/03/22	0.08	Water Injection Flow Meter
3375	Cunningham 2	06/06/22	06/06/22	0.07	Cooling Tower: Inadequate Cooling due to Heat
3376	Cunningham 3	06/06/22	06/06/22	0.06	Low gas pressure trip
3377	Harrington 2	06/06/22	06/19/22	13.23	Unit was removed from service due to an inoperable tube leak.
3378	Maddox 2	06/06/22	06/06/22	0.05	#5 Bearing Tripped Unit on High Vibration
3379	Maddox 2	06/06/22	06/07/22	0.63	Water Injection Flow Meter
3380	Tolk 2	06/06/22	06/06/22	0.01	West Induced Draft Fan trip forced a runback
3381	Harrington 3	06/07/22	06/08/22	0.07	Unit was derated to reduce Baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags and The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse differential pressure.
3382	Maddox 2	06/07/22	06/09/22	2.11	Bearing 5 High Vibration Trip
3383	Nichols 1	06/07/22	06/17/22	9.87	Forced outage due to reheat boiler tube leak
3384	Plant X 4	06/07/22	06/07/22	0.09	Unit was taken offline to test the Normal Source Transformer
3385	Tolk 2	06/07/22	06/08/22	1.36	Steam drum manhole leak WO# 107939440
3386	Cunningham 2	06/08/22	06/09/22	0.72	Boiler Trip: Elevation 4 Wiring
3387	Maddox 2	06/08/22	06/09/22	1.06	Bearing 5 Temperature High
3388	Harrington 3	06/10/22	06/10/22	0.03	Unit was derated to reduce the Baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse differential pressure.
3389	Harrington 3	06/11/22	06/11/22	0.02	Unit was derated to reduce the Baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse differential pressure.

Southwestern Public Service Company

Power Plant Maintenance Information

(a) Total Maintenance by Operating Unit for Four Years Prior to the Test Year Period by Month (2018-Present)

Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
3390	Harrington 3	06/12/22	06/12/22	0.02	Unit was derated to reduce the Baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse differential pressure.
3391	Hale Wind	06/13/22	06/15/22	0.35	Large number of turbines off due to turbine faults, unable to respond due to high winds and high temps.
3392	Hale Wind	06/14/22	06/14/22	0.07	Feeder breaker tripped taking string of 24 turbines offline, HV Cable termination failure.
3393	Cunningham 2	06/15/22	06/16/22	0.11	North Boiler Feed Pump Outboard Packing Leak
3394	Tolk 1	06/15/22	06/15/22	0.02	East Forced Draft Fan tripped - Variable Frequency Drive WO# 108014126
3395	Hale Wind	06/15/22	06/15/22	0.05	Down turbines that were not accessible due to high winds.
3396	Harrington 3	06/16/22	06/16/22	0.03	Unit was derated to reduce the Baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse differential pressure.
3397	Tolk 2	06/16/22	06/16/22	0.01	F Mill Hot air gate will not operate WO# 108010633
3398	Harrington 2	06/19/22	06/20/22	0.12	Unit was derated to reduce Baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags.
3399	Harrington 3	06/21/22	06/21/22	0.04	Unit was derated to reduce the Baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse differential pressure.
3400	Harrington 1	06/22/22	06/22/22	0.02	Electrostatic Precipitator was getting fouled and the back end temps were high due to increased ambient temps
3401	Harrington 1	06/22/22	06/22/22	0.01	The chemical injection system that helps control opacity tripped and we had to call out to get it restarted.
3402	Harrington 2	06/22/22	06/22/22	0.06	Unit was derated to reduce the Baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse differential pressure.
3403	Harrington 3	06/22/22	06/22/22	0.01	Unit was derated to reduce the Baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse differential pressure.
3404	Plant X 1	06/22/22	06/22/22	0.08	Instruments called out to repair Gas line issue, one valve found closed on the gas line.
3405	Plant X 1	06/22/22	06/22/22	0.09	Loss of boiler ignitors caused the boiler to trip.
3406	Cunningham 4	06/23/22	06/24/22	0.63	Generator X Probe: Unit Tripped
3407	Harrington 2	06/23/22	06/23/22	0.02	Unit was derated to reduce the Baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse differential pressure.
3408	Harrington 2	06/24/22	06/24/22	0.02	Unit was derated to reduce the Baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse differential pressure.
3409	Harrington 3	06/24/22	06/24/22	0.01	Unit was derated to reduce the Baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse differential pressure.
3410	Harrington 2	06/25/22	06/29/22	3.69	Unit tripped off line due to a failure with the Condensate Booster pump in service. This time includes fan down for refill and repairs to a resulting tube leak.
3411	Cunningham 2	06/26/22	06/29/22	3.44	17th Stage Extraction
3412	Cunningham 2	06/27/22	06/27/22	0.07	17th stage heater extraction line steam leak.
3413	Harrington 3	06/27/22	06/27/22	0.05	Unit was derated to reduce the Baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse differential pressure.
3414	Harrington 3	06/28/22	06/28/22	0.06	Unit was derated to reduce the Baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse differential pressure.
3415	Cunningham 4	06/29/22	07/01/22	0.12	Wet Compression Not Available
3416	Harrington 3	06/29/22	06/29/22	0.03	Unit was derated to reduce the Baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse differential pressure.
3417	Harrington 3	06/30/22	06/30/22	0.01	Unit was derated to reduce Baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags.
3418	Harrington 2	07/01/22	07/01/22	0.01	Unit was derated to reduce Baghouse Differential Pressure. Unit had compartment(s) out of service to replace failed bags.
3419	Harrington 3	07/01/22	07/01/22	0.02	Unit was derated to reduce Baghouse Differential Pressure. Unit had compartment(s) out of service to replace failed bags.
3420	Harrington 1	07/02/22	07/02/22	0.02	Unit was derated to prevent opacity exceedances. Transformer/Rectifier set ED4 failed
3421	Harrington 2	07/02/22	07/02/22	0.08	Unit was derated to reduce Baghouse Differential Pressure. Unit had compartment(s) out of service to replace failed bags.
3422	Tolk 2	07/02/22	07/02/22	0.03	B Feeder cleanout conveyor not running ** note C Mill is also out of service WO# 108078925
3423	Harrington 2	07/03/22	07/03/22	0.04	Unit was derated to reduce Baghouse Differential Pressure. Unit had compartment(s) out of service to replace failed bags.
3424	Harrington 2	07/03/22	07/03/22	0.02	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3425	Harrington 3	07/03/22	07/03/22	0.02	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3426	Harrington 3	07/03/22	07/03/22	0.02	Unit was derated to reduce Baghouse Differential Pressure. Unit had compartment(s) out of service to replace failed bags.
3427	Tolk 2	07/03/22	07/03/22	0.04	Load drop due to Boiler pluggage from extended high loads, blowing to see if boiler cleans up
3428	Harrington 2	07/04/22	07/04/22	0.02	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3429	Tolk 1	07/04/22	07/04/22	0.20	Submerged Scraper Conveyor failure WO# 108090853

Southwestern Public Service Company

Power Plant Maintenance Information

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3430	Tolk 2	07/04/22	07/05/22	0.07	Boiler Furnace going positive, possible pluggage
3431	Harrington 2	07/05/22	07/05/22	0.05	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3432	Harrington 3	07/06/22	07/06/22	0.03	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3433	Harrington 2	07/07/22	07/08/22	0.02	Unit was derated to reduce Baghouse Differential Pressure. Unit had compartment(s) out of service to replace failed bags.
3434	Harrington 2	07/07/22	07/07/22	0.01	Unit was derated to reduce Baghouse Differential Pressure. Unit had compartment(s) out of service to replace failed bags.
3435	Tolk 1	07/08/22	07/09/22	0.24	Unit Auxiliary Cooling Water temperatures struggling and south soot blower air compressor tripping on high discharge temperature
3436	Harrington 1	07/09/22	07/09/22	0.02	Unit was derated to prevent opacity exceedances. Fields are fouled and backend temperatures are high.
3437	Harrington 2	07/09/22	07/09/22	0.01	Unit was derated to reduce Baghouse Differential Pressure. Unit had compartment(s) out of service to replace failed bags. Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long.
3438	Harrington 3	07/09/22	07/10/22	0.02	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3439	Tolk 2	07/09/22	07/09/22	0.07	Boiler furnace going positive, continue to clean boiler to improve furnace pressure
3440	Harrington 2	07/10/22	07/10/22	0.01	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3441	Harrington 2	07/10/22	07/10/22	0.01	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3442	Tolk 1	07/10/22	07/10/22	0.01	Possible pluggage, furnace pressure going positive
3443	Tolk 2	07/10/22	07/10/22	0.01	Furnace pressure going positive
3444	Harrington 2	07/11/22	07/12/22	0.07	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3445	Harrington 3	07/11/22	07/11/22	0.02	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3446	Tolk 1	07/11/22	07/19/22	8.00	Tube leak in waterwall section WO# 108126092
3447	Cunningham 3	07/12/22	07/12/22	0.03	Unplanned forced outage. (Mod - Model and Data Standards testing). Automatic Voltage Regulator Trip
3448	Harrington 2	07/12/22	07/12/22	0.01	Unit was derated to reduce Baghouse Differential Pressure. Unit had compartment(s) out of service to replace failed bags.
3449	Harrington 2	07/12/22	07/13/22	0.03	Unit was derated to reduce Baghouse Differential Pressure. Unit had compartment(s) out of service to replace failed bags.
3450	Cunningham 1	07/13/22	1/1/2023*	171.99	Superheat Tube leak
3451	Harrington 2	07/13/22	07/13/22	0.01	Unit was derated to reduce Baghouse Differential Pressure. Unit had compartment(s) out of service to replace failed bags.
3452	Harrington 2	07/15/22	07/15/22	0.08	Unit was derated to reduce Baghouse Differential Pressure. Unit had compartment(s) out of service to replace failed bags.
3453	Harrington 3	07/17/22	07/17/22	0.01	Unit was derated to reduce Baghouse Differential Pressure. Unit had compartment(s) out of service to replace failed bags.
3454	Harrington 2	07/18/22	07/18/22	0.02	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3455	Harrington 3	07/18/22	07/18/22	0.02	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3456	Quay County 1	07/18/22	08/03/22	16.27	Emergency Diesel Generator (EDG) is not ready to start and DC oil pump motor not reliable results in high risk to run the unit. Engine Control Module (ECM) had failed on EDG.
3457	Harrington 2	07/19/22	07/20/22	0.05	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3458	Harrington 3	07/19/22	07/19/22	0.04	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3459	Plant X 1	07/19/22	08/03/22	15.63	Water conservation. Tolk lagoon levels dropping faster than make-up could supply.
3460	Plant X 2	07/19/22	08/03/22	15.67	Water conservation. Tolk lagoon levels dropping faster than make-up could supply.
3461	Harrington 2	07/20/22	07/20/22	0.01	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3462	Harrington 2	07/21/22	07/21/22	0.02	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3463	Harrington 3	07/21/22	07/21/22	0.04	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3464	Jones 1	07/21/22	07/22/22	0.84	Steam leak on #4 Governor Valve loop pressure transmitter tap
3465	Harrington 2	07/22/22	07/22/22	0.05	Unit was derated to reduce Baghouse Differential Pressure. Unit had compartment(s) out of service to replace failed bags.

Southwestern Public Service Company

Power Plant Maintenance Information

(a) Total Maintenance by Operating Unit for Four Years Prior to the Test Year Period by Month (2018-Present)

Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
3466	Plant X 4	07/22/22	07/22/22	0.02	Unit tripped on Reverse Power shortly after coming online due to decline in boiler pressure.
3467	Tolk 1	07/23/22	07/29/22	6.13	Tube leak on 8th floor east side of boiler Commercial Operations ask for hour to meet additional resources being dispatched WO # 108183208
3468	Tolk 2	07/23/22	08/01/22	8.98	Fireside cleaning in the Boiler WO# 108153494 E-log note Shift Supervisor 7/23 N- reflects several other issues to address during this outage
3469	Jones 1	07/24/22	07/24/22	0.03	Repair leak on the supply hose to the left side Governor Valve Actuator
3470	Harrington 3	07/25/22	07/25/22	0.03	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3471	Harrington 2	07/26/22	07/26/22	0.09	Unit was derated to reduce Baghouse Differential Pressure. Unit had compartment(s) out of service to replace failed bags.
3472	Harrington 3	07/26/22	07/26/22	0.04	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3473	Jones 3	07/26/22	07/26/22	0.16	Stack Inspection before RATA (Relative Accuracy Test Audit)
3474	Harrington 2	07/27/22	07/27/22	0.06	Unit was derated to reduce Baghouse Differential Pressure. Unit had compartment(s) out of service to replace failed bags.
3475	Harrington 3	07/27/22	07/27/22	0.07	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3476	Cunningham 3	07/28/22	07/28/22	0.08	Wet Compression, Loss of Pressure
3477	Cunningham 3	07/28/22	09/15/22	4.16	Wet Compression Injection Pump
3478	Harrington 2	07/28/22	07/28/22	0.01	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3479	Harrington 3	07/28/22	07/28/22	0.04	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3480	Harrington 3	07/28/22	07/28/22	0.02	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3481	Harrington 3	07/28/22	07/28/22	0.02	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3482	Harrington 1	07/29/22	07/31/22	0.17	The unit was derated due to loss of Superheat Spray flow control. Unit had to be brought to a load that we could control superheat steam temperatures without desuperheater sprays.
3483	Harrington 2	07/29/22	07/30/22	0.04	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3484	Harrington 2	07/29/22	07/29/22	0.04	Unit was derated to reduce Baghouse Differential Pressure. Unit had compartment(s) out of service to replace failed bags.
3485	Harrington 3	07/29/22	07/29/22	0.02	Unit was derated to reduce Baghouse Differential Pressure. Unit had compartment(s) out of service to replace failed bags.
3486	Harrington 2	07/30/22	07/31/22	0.19	Unit was derated to reduce Baghouse Differential Pressure. Unit had compartment(s) out of service to replace failed bags.
3487	Harrington 3	07/30/22	07/30/22	0.02	Unit was derated to reduce Baghouse Differential Pressure. Unit had compartment(s) out of service to replace failed bags.
3488	Harrington 2	07/31/22	08/13/22	12.84	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3489	Harrington 3	08/01/22	08/01/22	0.00	Unit was derated to reduce the baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing baghouse differential pressure.
3490	Harrington 3	08/03/22	08/04/22	0.01	Unit was derated to reduce the baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing baghouse differential pressure.
3491	Maddox 2	08/03/22	08/03/22	0.20	S2G Failed to synchronize
3492	Maddox 2	08/03/22	08/11/22	7.42	Failed to Synchronize
3493	Harrington 3	08/04/22	08/04/22	0.00	Unit was derated to reduce the baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing baghouse differential pressure.
3494	Jones 1	08/04/22	08/05/22	0.77	City of Lubbock Effluent Supply Line Break
3495	Jones 2	08/04/22	08/05/22	0.77	City of Lubbock Effluent Supply Line Break
3496	Harrington 3	08/05/22	08/05/22	0.01	Unit was derated to reduce the baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing baghouse differential pressure.
3497	Sagamore Wind	08/07/22	08/08/22	0.75	Unplanned Outage: Derated to 460MW, SWF311 Breaker Trip Event
3498	Harrington 3	08/09/22	08/09/22	0.01	Unit was derated to reduce the baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing baghouse differential pressure.
3499	Harrington 1	08/10/22	08/10/22	0.00	Fouled Electrostatic Precipitator
3500	Harrington 2	08/10/22	08/10/22	0.01	Unit was derated to reduce baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags.
3501	Harrington 3	08/10/22	08/10/22	0.00	Unit was derated to reduce baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags.
3502	Harrington 3	08/10/22	08/10/22	0.00	Unit was derated to reduce the baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing baghouse differential pressure.
3503	Plant X 1	08/11/22	11/1/2022*	82.58	Turbine inspection by Fleet Engineering needed

Southwestern Public Service Company

Power Plant Maintenance Information

(a) Total Maintenance by Operating Unit for Four Years Prior to the Test Year Period by Month (2018-Present)

Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
3504	Plant X 2	08/11/22	11/1/2022*	82.14	Turbine inspection by Fleet Engineering needed
3505	Cunningham 4	08/12/22	08/12/22	0.05	Lube Oil Cooler Bypass
3506	Maddox 1	08/12/22	08/12/22	0.09	Forced Draft Fan Tripped.
3507	Harrington 1	08/15/22	08/17/22	1.56	Unit was removed from service due to a cracked weld on the Main Feedpump where its recirculation line connects to the DA (deaerator) inlet line.
3508	Harrington 2	08/16/22	08/26/22	0.07	Unit was derated to reduce the baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing baghouse differential pressure.
3509	Maddox 1	08/16/22	08/17/22	1.41	U934 Motor
3510	Cunningham 4	08/19/22	08/22/22	2.69	Lube Oil Pressure Low.
3511	Harrington 1	08/19/22	08/19/22	0.01	Unit was derated to prevent opacity exceedances. Electrostatic Precipitator was fouled
3512	Jones 1	08/19/22	08/19/22	0.40	The rupture discs on the Low Pressure Turbine failed.
3513	Maddox 1	08/20/22	08/22/22	2.00	Forced Draft Fan Tripped
3514	Harrington 1	08/22/22	08/22/22	0.01	Unit was derated to prevent Opacity exceedances.
3515	Harrington 2	08/22/22	08/23/22	0.02	Unit was derated to reduce baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags.
3516	Jones 1	08/22/22	08/24/22	2.72	Clean Condenser and Other Miscellaneous repairs
3517	Harrington 2	08/23/22	08/23/22	0.03	Unit was derated to reduce the baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing baghouse differential pressure.
3518	Harrington 3	08/23/22	08/23/22	0.00	Unit was derated to reduce baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags.
3519	Harrington 1	08/24/22	08/24/22	0.01	Unit was derated to prevent Opacity exceedances
3520	Harrington 2	08/24/22	08/24/22	0.01	Unit was derated to reduce baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags.
3521	Harrington 2	08/25/22	08/25/22	0.00	Unit was derated to reduce the baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing baghouse differential pressure.
3522	Cunningham 2	08/26/22	08/26/22	0.01	Redundant CPU (central processing unit)failed on computer, Changed Out
3523	Harrington 2	08/26/22	08/26/22	0.01	Unit was derated to reduce the baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing baghouse differential pressure.
3524	Harrington 3	08/26/22	08/26/22	0.00	Unit was derated to reduce the baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing baghouse differential pressure.
3525	Nichols 2	08/27/22	08/31/22	3.86	Turbine main steam right throttle stop valve tripping
3526	Harrington 1	08/28/22	08/28/22	0.00	Unit was derated to prevent Opacity exceedances
3527	Harrington 3	08/28/22	08/28/22	0.00	Unit was derated to reduce the baghouse differential pressure. The differential pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing baghouse differential pressure.
3528	Harrington 2	08/29/22	08/29/22	0.01	Unit was derated to reduce baghouse differential pressure. Unit had compartment(s) out of service to replace failed bags.
3529	Cunningham 4	08/30/22	08/30/22	0.02	Exhaust Hood Stack Temperature Causing Runback
3530	Harrington 1	08/30/22	08/30/22	0.00	Unit was derated to prevent opacity exceedances. Electrostatic Precipitator is fouled.
3531	Harrington 2	08/30/22	09/06/22	1.32	Unit was derated when the outboard seal water temperature was above operating range. It appears that we have an o-ring that failed on the drive shaft.
3532	Maddox 1	08/30/22	08/30/22	0.41	Forced Draft Fan Tripped
3533	Harrington 1	09/01/22	09/01/22	0.00	Unit was derated to prevent opacity exceedances. We have a fouled Electrostatic Precipitator
3534	Tolk 1	09/01/22	09/02/22	0.96	Replace Submerged Scraper Conveyor (SSC) Idler Bearing WO# 108369172
3535	Harrington 1	09/03/22	09/03/22	0.00	Unit was derated to prevent opacity exceedances. Electrostatic Precipitator is fouled
3536	Maddox 1	09/04/22	09/04/22	0.18	Forced Draft Fan Tripped
3537	Cunningham 2	09/05/22	09/05/22	0.11	Forced Draft Fans North and South Tripped due to Room Temperature
3538	Cunningham 3	09/05/22	10/28/22	53.40	Torque Seal Inspection
3539	Cunningham 4	09/05/22	09/09/22	4.80	Dissolved Gas Analyzer Install On Main Power Transformer
3540	Harrington 2	09/06/22	09/13/22	7.54	Unit was removed from service to replace all the bags in 7 compartments.
3541	Maddox 1	09/06/22	09/06/22	0.33	Forced Draft Fan Tripped.
3542	Harrington 1	09/07/22	09/07/22	0.00	Unit was derated to prevent opacity exceedances. Fouled Electrostatic Precipitator
3543	Tolk 2	09/09/22	09/09/22	0.00	2 D Mill out for lube oil replacement, 2C was already out for overhaul WO# 108408295
3544	Tolk 1	09/11/22	09/12/22	0.13	Condensate makeup has increased after the recent startup, Tube leak is suspected to be on a division panel.
3545	Tolk 1	09/12/22	09/23/22	11.39	Tube leak repair in the division panel section WO# 108420610
3546	Cunningham 2	09/14/22	09/14/22	0.23	LK60 Relay Work in Substation
3547	Harrington 2	09/15/22	09/21/22	0.19	Unit is derated to season new baghouse bags.
3548	Harrington 1	09/17/22	09/22/22	4.26	Water in the turbine lube oil system that came about from an Auxiliary Cooling Water leak.
3549	Nichols 1	09/18/22	09/21/22	3.38	Replacing water box outlet expansion joints and hot well makeup control valve
3550	Harrington 2	09/19/22	09/19/22	0.04	Unit was derated due to the loss of a coal mill. (3 mill operations)
3551	Nichols 3	09/21/22	12/31/2022*	102.04	Planned Outage for turbine overhaul and multiple capital projects to upgrade unit
3552	Harrington 2	09/22/22	09/22/22	0.00	Unit was derated due to failed bags needing to be replaced and high Air Preheater Differential Pressure.
3553	Jones 3	09/22/22	09/22/22	0.53	Gas Calibration and Preventive Maintenance
3554	Cunningham 4	09/24/22	10/01/22	0.35	Wet Compression Unavailable due to T11 work
3555	Harrington 2	09/24/22	09/24/22	0.00	Unit was derated due to high Air Preheater and Baghouse Differential Pressure.
3556	Sagamore Wind	09/24/22	09/24/22	0.28	Unplanned Outage: Derated to 482MW, SWF322 Breaker Trip Event
3557	Cunningham 2	09/25/22	09/30/22	5.63	Replace Wiring (Unit auxiliaries transformer)
3558	Jones 4	09/26/22	09/26/22	0.58	Gas Calibration and Preventive Maintenance
3559	Maddox 2	09/26/22	09/26/22	0.21	3 Year Black Plant Test
3560	Maddox 3	09/26/22	09/26/22	0.10	3 Year Black Plant Test
3561	Maddox 3	09/26/22	09/26/22	0.03	3 Year Black Plant Test

Southwestern Public Service Company

Power Plant Maintenance Information

(a) Total Maintenance by Operating Unit for Four Years Prior to the Test Year Period by Month (2018-Present)

Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
3562	Harrington 2	09/27/22	09/28/22	0.05	Unit was derated to reduce Baghouse Differential Pressure. Unit had compartment(s) out of service to replace failed bags.
3563	Maddox 2	09/27/22	09/27/22	0.05	Fuel Ignitor
3564	Plant X 4	09/27/22	10/06/22	9.67	Unable to maintain/increase condensate storage tank levels due to boiler tube leaks in the economizer.
3565	Harrington 1	09/28/22	09/28/22	0.00	Unit was derated to prevent an opacity exceedance. The Electrostatic Precipitator was fouled.
3566	Harrington 2	09/28/22	09/28/22	0.01	Unit was derated to reduce Baghouse Differential Pressure. Unit had compartment(s) out of service to replace failed bags.
3567	Harrington 2	09/28/22	09/28/22	0.00	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3568	Harrington 2	09/29/22	09/29/22	0.00	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3569	Maddox 2	10/02/22	10/06/22	4.26	High Bearing oil Drain Temperature
3570	Harrington 2	10/02/22	10/02/22	0.02	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3571	Harrington 2	10/03/22	10/03/22	0.01	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3572	Harrington 3	10/04/22	10/04/22	0.04	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3573	Harrington 2	10/04/22	10/04/22	0.02	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3574	Maddox 1	10/05/22	10/07/22	2.40	Economizer East Inlet Valve
3575	Harrington 2	10/05/22	10/05/22	0.09	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3576	Tolk 1	10/05/22	10/07/22	2.21	Synchronous Condenser Conversion: Hydrogen tank pressure low
3577	Tolk 2	10/06/22	10/15/22	1.93	Drum safety lifting on higher pressures
3578	Harrington 2	10/06/22	10/06/22	0.05	Unit was derated to reduce Baghouse Differential Pressure. Unit had compartment(s) out of service to replace failed bags.
3579	Harrington 2	10/06/22	10/06/22	0.04	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3580	Maddox 2	10/06/22	10/06/22	0.03	High Bearing Oil Temperature
3581	Maddox 2	10/06/22	10/07/22	0.71	High Bearing Oil Temperature
3582	Harrington 2	10/07/22	10/07/22	0.05	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3583	Harrington 2	10/08/22	10/09/22	0.27	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3584	Harrington 3	10/09/22	10/09/22	0.02	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3585	Harrington 2	10/09/22	10/10/22	0.05	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3586	Harrington 3	10/10/22	10/10/22	0.02	Unit was derated to reduce Baghouse Differential Pressure. Unit had compartment(s) out of service to replace failed bags.
3587	Harrington 2	10/10/22	10/10/22	0.05	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3588	Jones 2	10/11/22	10/14/22	3.04	Economizer Tube Leak on the SW Corner
3589	Harrington 2	10/12/22	10/12/22	0.02	Unit was derated to reduce Baghouse Differential Pressure. Unit had compartment(s) out of service to replace failed bags.
3590	Harrington 2	10/12/22	10/13/22	0.89	Unit was removed from service to make repairs on an auxiliary cooling water vent line in generator exciter house.
3591	Harrington 3	10/14/22	10/21/22	6.56	Planned Mini
3592	Tolk 2	10/15/22	10/16/22	1.09	Steam Drum safety Valve Repair WO# 108569904
3593	Harrington 2	10/15/22	10/15/22	0.04	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3594	Harrington 1	10/15/22	10/15/22	0.02	Unit was derated to prevent opacity exceedances. We have a fouled electrostatic precipitator
3595	Harrington 2	10/16/22	10/16/22	0.05	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3596	Harrington 2	10/17/22	10/19/22	0.31	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3597	Tolk 2	10/18/22	10/18/22	0.01	F Mill issues mill would trip on loss of seal air WO # 108581604
3598	Tolk 2	10/18/22	10/18/22	0.01	Load Held to test Drum Safety which was rebuilt - holding drum pressure below 2400 PSI until test is complete

Southwestern Public Service Company

Power Plant Maintenance Information

(a) Total Maintenance by Operating Unit for Four Years Prior to the Test Year Period by Month (2018-Present)

Line No.	Unit Name	Actual/Planned Start Date	Actual Completion Date	Outage Duration (Days)	Reason for Outage
3599	Harrington 2	10/20/22	10/20/22	0.04	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.
3600	Maddox 2	10/20/22	10/20/22	0.05	Ignitor Failure
3601	Maddox 2	10/20/22	10/21/22	0.68	Bearing 5: Lube Oil Bearing Drain Temperature High
3602	Harrington 3	10/21/22	10/22/22	0.97	The west auxiliary cooling water heat exchanger had an anode that was leaking and had to be replaced.
3603	Tolk 2	10/21/22	10/29/22	8.03	Troubleshoot #6 Turbine bearing temperature increase
3604	Harrington 2	10/24/22	10/24/22	0.03	Unit was derated to reduce Baghouse Differential Pressure. Unit had compartment(s) out of service to replace failed bags.
3605	Sagamore Wind	10/24/22	10/24/22	0.17	Unplanned Outage: Derated to 450MW, SWF343 Breaker Trip Event
3606	Harrington 2	10/25/22	10/25/22	0.10	Unit was derated when the main feed pump would not control feedwater flow and we swapped to the startup feed pump due to a dirty inline filter on the EH system supplied to the Low Pressure Governor Valve.
3607	Harrington 2	10/25/22	10/26/22	0.02	Unit was derated to reduce the Baghouse Differential Pressure. The Differential Pressure is high due to inadequate compartment cleaning. This will not allow the unit to operate at full loads very long due to the increasing Baghouse Differential Pressure.

*Estimated Date

Southwestern Public Service Company

Power Plant Maintenance Information

(b)(i) Scheduled System Maintenance by Operating Unit for Test Year Period (July 1, 2023 - June 30, 2024) by Month

Line No.	Unit Name	Planned Outage Month
1	Jones 4	September
2	Jones 3	September
3	Harrington 2	September
4	Cunningham 4	October
5	Jones 4	November
6	Jones 3	November
7	Plant X 4	February
8	Tolk 1	March
9	Jones 1	March
10	Tolk 2	April
11	Tolk 1	May
12	Nichols 3	May

Southwestern Public Service Company

Power Plant Maintenance Information

(b)(ii) Scheduled System Maintenance Information for Five Years Beyond the Base Period (2022-2027)

Line No.	Unit Name	Planned Outage Month
2022		
1	Cunningham 3	November
2	Jones 4	November
3	Jones 3	November
2023		
4	Jones 4	February
5	Jones 3	February
6	Jones 2	February
7	Plant X 2	March
8	Nichols 1	March
9	Nichols 2	March
10	Jones 4	March
11	Plant X 4	April
12	Harrington 3	April
13	Maddox 1	April
14	Jones 1	April
15	Harrington 1	April
16	Tolk 2	May
17	Nichols 3	May
18	Jones 2	May
19	Jones 3	May
20	Jones 4	September
21	Jones 3	September
22	Harrington 2	September
23	Cunningham 4	October
24	Jones 4	November
25	Jones 3	November
2024		
26	Plant X 4	February
27	Tolk 1	March
28	Jones 1	March
29	Tolk 2	April
30	Tolk 1	May
31	Nichols 3	May
37	Hale Co.Wind	August
38	Harrington 1	September
39	Cunningham 2	September
40	PlantX 4	September
41	Harrington 2	October
42	QuayCounty	October
43	Cunningham 3	October
2025		
44	Harrington 3	January
45	Nichols 3	March
46	Plant X 4	March
47	Tolk 2	April
48	Tolk 1	May
49	Nichols 3	May
50	Sagamore Wind	August
51	Harrington 1	September
52	Nichols 1	September
53	Maddox 2	September
54	Harrington 2	October
2026		
55	Tolk 2	February
56	Maddox 1	March
57	Jones 2	March

Southwestern Public Service Company

Power Plant Maintenance Information

(b)(ii) Scheduled System Maintenance Information for Five Years Beyond the Base Period (2022-2027)

Line No.	Unit Name	Planned Outage
		Month
58	Harrington 3	April
59	Nichols 3	May
60	Harrington 2	September
61	Harrington 1	October
	2027	
62	Jones 1	March
63	Harrington 3	April
64	Nichols 3	May
65	Nichols 2	September
66	Harrington 1	October
67	Harrington 2	October

Southwestern Public Service Company

Customer Service Interruption Information

Line No.	Total Company			New Mexico Jurisdiction		
	Occurrence (Central Prevailing Time)	Duration (Minutes)	Geographical Location	Occurrence (Central Prevailing Time)	Duration (Minutes)	Geographical Location
1	Transmission			Transmission		
2	2019			2019		
3	3/9/19 2:31 AM *	189	Plainview, TX	3/12/19 6:07 PM *	804	Carlsbad, NM/Roswell, NM
4	3/12/19 6:07 PM *	804	Carlsbad, NM/Roswell, NM	4/10/19 9:51 AM *	182	Carlsbad, NM
5	3/13/19 1:23 AM *	146	Levelland, TX	6/2/19 6:17 PM	89	Carlsbad, NM
6	3/13/19 1:58 PM *	299	Pampa, TX	6/10/19 10:11 AM *	17	Carlsbad, NM
7	3/29/19 9:21 PM *	65	Plainview, TX	11/26/19 1:10 PM *	588	Carlsbad, NM
8	4/10/19 9:51 AM *	182	Carlsbad, NM	11/26/19 2:11 PM *	527	Carlsbad, NM
9	5/23/19 6:31 PM *	52	Perryton, TX			
10	5/25/19 7:10 PM *	70	Plainview, TX			
11	6/2/19 6:17 PM	89	Carlsbad, NM			
12	6/10/19 10:11 AM *	17	Carlsbad, NM			
13	8/23/19 3:44 AM	128	Lubbock, TX			
14	10/13/19 11:30 PM	349	Levelland, TX/Lubbock, TX/Plainview, TX			
15	11/5/19 2:46 PM	75	Levelland, TX/Plainview, TX			
16	11/21/19 2:43 AM *	20	Lubbock, TX			
17	11/26/19 1:10 PM *	588	Carlsbad, NM			
18	11/26/19 2:11 PM *	527	Carlsbad, NM			
19	11/28/19 4:03 AM	132	Seminole, TX			
20	11/29/19 9:44 AM	170	Seminole, TX			
21	2020			2020		
22	1/2/20 3:43 AM *	587	Carlsbad, NM	1/2/20 3:43 AM *	587	Carlsbad, NM
23	1/24/20 3:30 PM *	90	Plainview, TX	2/16/20 11:47 AM *	134	Carlsbad, NM
24	2/16/20 11:47 AM *	134	Carlsbad, NM	3/8/20 8:03 AM *	119	Clovis, NM
25	3/8/20 8:03 AM *	119	Clovis, NM	3/8/20 10:49 AM *	23	Clovis, NM
26	3/8/20 10:49 AM *	23	Clovis, NM			
27	6/10/20 2:35 AM	57	Pampa, TX			
28	8/10/20 3:46 AM	60	Amarillo, TX/Canyon, TX			
29	8/12/20 6:34 PM	422	Levelland, TX/Seminole, TX			
30	8/29/20 8:28 PM	559	Amarillo, TX/Borger, TX			
31	10/27/20 4:10 PM *	935	Plainview, TX			
32	10/27/20 9:18 PM *	712	Plainview, TX			
33	10/28/20 12:40 PM *	140	Levelland, TX			
34	10/28/20 9:51 PM *	130	Amarillo, TX/Borger, TX			
35	10/28/20 10:33 PM	88	Amarillo, TX			
36	10/28/20 11:48 PM *	803	Pampa, TX			
37	10/29/20 6:57 PM	487	Pampa, TX/Amarillo, TX/Borger, TX			
38	11/3/20 9:37 AM *	33	Levelland, TX			
39	11/3/20 10:15 AM *	100	Plainview, TX			
40	2021			2021		
41	1/4/21 1:13 PM	50	Levelland, TX	3/28/21 4:28 PM	47	Carlsbad, NM
42	2/5/21 8:03 AM	15	Amarillo, TX	5/30/21 6:06 PM *	62	Carlsbad, NM
43	3/28/21 4:28 PM	47	Carlsbad, NM			
44	5/30/21 6:06 PM *	62	Carlsbad, NM			
45	7/2/21 10:40 AM B	74	Plainview, TX			
46	7/7/21 2:40 PM * B	153	Borger, TX			
47	7/7/21 2:41 PM * B	91	Borger, TX			
48	7/15/21 10:31 PM * B	73	Plainview, TX			
49	2022			2022		
	2/15/22 10:48 AM * B	1,127	Lubbock, TX			
50	2/17/22 8:02 AM * B	276	Lubbock, TX			
51	3/21/22 10:20 PM * B	63	Amarillo, TX			
52	3/29/22 3:01 PM * B	186	Levelland, TX/Lubbock, TX			

Southwestern Public Service Company

Customer Service Interruption Information

Line No.	Total Company		
	Occurrence (Central Prevailing Time)	Duration (Minutes)	Geographical Location
53	Distribution		
54	2019		
55	3/13/19 12:13 PM	306	Roswell, NM
56	3/28/19 3:48 AM *	108	Plainview, TX
57	6/1/19 11:06 PM *	216	Plainview, TX
58	6/3/19 7:01 AM *	147	Carlsbad, NM
59	6/14/19 5:03 PM	76	Carlsbad, NM
60	6/18/19 10:14 PM *	353	Pampa, TX
61	6/19/19 9:19 AM *	244	Levelland, TX
62	6/19/19 12:37 PM	77	Carlsbad, NM
63	6/21/19 12:39 AM	94	Carlsbad, NM/Hobbs, NM
64	7/26/19 4:56 AM	284	Seminole, TX
65	10/26/19 8:47 AM *	65	Carlsbad, NM
66	11/27/19 12:52 AM	79	Carlsbad, NM
67	2020		
68	4/12/20 11:44 AM *	177	Lubbock, TX
69	4/18/20 7:11 AM *	187	Lubbock, TX
70	5/15/20 7:21 PM *	112	Lubbock, TX
71	5/23/20 7:12 PM *	121	Levelland, TX
72	7/9/20 3:51 PM *	115	Carlsbad, NM
73	7/9/20 4:24 PM	99	Carlsbad, NM
74	7/14/20 3:32 PM	118	Amarillo, TX/Borger, TX/Pampa, TX
75	7/27/20 4:14 PM	83	Borger, TX
76	8/12/20 5:55 PM *	111	Borger, TX
77	8/19/20 8:29 PM *	650	Carlsbad, NM
78	8/19/20 8:30 PM *	645	Carlsbad, NM
79	9/5/20 7:42 PM	70	Amarillo, TX
80	10/28/20 5:56 PM *	154	Borger, TX
81	11/9/20 10:20 AM	83	Carlsbad, NM
82	11/26/20 9:03 AM	97	Amarillo, TX
83	2021		
84	3/19/21 8:31 AM	52	Dumas, TX
85	4/21/21 8:47 AM *	136	Plainview, TX
86	5/8/21 9:48 AM *	285	Carlsbad, NM
87	5/30/21 10:31 PM *	665	Levelland, TX
88	6/9/21 6:12 PM *	132	Borger, TX
89	6/22/21 8:56 PM *	212	Levelland, TX
90	7/5/21 3:41 AM *	195	Carlsbad, NM
91	7/16/21 8:16 AM *	123	Lubbock, TX
92	8/13/21 9:32 PM B	514	Hobbs, NM
93	8/15/21 12:39 PM *	256	Lubbock, TX
94	8/28/21 4:00 AM *	121	Lubbock, TX
95	8/29/21 1:21 AM *	319	Pampa, TX
96	10/30/21 8:14 AM B	105	Carlsbad, NM
97	11/2/21 3:37 PM *	184	Lubbock, TX
98	2022		
99	1/12/22 11:02 AM B	50	Clovis, NM
100	3/16/22 7:48 PM B	164	Plainview, TX/Lubbock, TX
101	4/10/22 9:32 PM *	60	Plainview, TX
102	5/2/22 4:43 AM B	71	Carlsbad, NM
103	5/7/22 11:14 AM *	47	Plainview, TX
104	5/10/22 6:16 PM *	209	Levelland, TX
105	5/10/22 6:20 PM *	106	Levelland, TX
106	5/17/22 7:19 PM *	1,385	Lubbock, TX
107	5/17/22 8:10 PM *	81	Levelland, TX
108	5/23/22 9:22 PM *	218	Levelland, TX
109	5/25/22 6:05 AM *	648	Levelland, TX/Plainview, TX
110	6/1/22 7:50 PM *	51	Borger, TX/Pampa, TX
111	6/1/22 9:29 PM *	98	Pampa, TX
112	6/8/22 5:09 AM *	706	Perryton, TX/Borger, TX
113	6/22/22 5:05 AM B	19	Carlsbad, NM

New Mexico Jurisdiction			
Occurrence (Central Prevailing Time)	Duration (Minutes)	Geographical Location	
Distribution			
2019			
3/13/19 12:13 PM	306	Roswell, NM	
6/3/19 7:01 AM *	147	Carlsbad, NM	
6/14/19 5:03 PM	76	Carlsbad, NM	
6/19/19 12:37 PM	77	Carlsbad, NM	
6/21/19 12:39 AM	94	Carlsbad, NM/Hobbs, NM	
10/26/19 8:47 AM *	65	Carlsbad, NM	
11/27/19 12:52 AM	79	Carlsbad, NM	
2020			
7/9/20 3:51 PM *	115	Carlsbad, NM	
7/9/20 4:24 PM	99	Carlsbad, NM	
8/19/20 8:29 PM *	650	Carlsbad, NM	
8/19/20 8:30 PM *	645	Carlsbad, NM	
11/9/20 10:20 AM	83	Carlsbad, NM	
2021			
5/8/21 9:48 AM *	285	Carlsbad, NM	
7/5/21 3:41 AM * B	195	Carlsbad, NM	
8/13/21 9:32 PM B	514	Hobbs, NM	
10/30/21 8:14 AM B	105	Carlsbad, NM	
2022			
1/12/22 11:02 AM B	50	Clovis, NM	
5/2/22 4:43 AM B	71	Carlsbad, NM	
6/22/22 5:05 AM B	19	Carlsbad, NM	

* Event MW load unavailable, cannot determine if event exceeds 15 MW.
B - Base Period months (7/1/2021-6/30/2022).

Southwestern Public Service Company

System Loss Information

Part (a)(i) and (b)

System loss data is calculated for total system. Refer to the table below for loss factors determined from calendar year 2021 data. Factors are generated on a total system basis and then applied to the New Mexico retail jurisdiction according to voltage level and class of customer. Therefore, the New Mexico losses are based on system losses, but the actual loss within the jurisdiction is dependent upon the sales mix among customer classes. Monthly data are not available as discussed in Schedule M-3. Refer to Schedule M-3 for a discussion of the methods, procedures, and formulae used for developing loss information.

The 2021 System Loss Study was developed using data for calendar year 2021. Please refer to the Direct Testimony of Duane J. Ripperger, Attachment DJR-2.

Part (a)(ii) – (v)

New Mexico Jurisdiction

	Proposed (including Test Year) (based on 2021 Line Loss Study)	
Voltage Level	Demand Loss Factor	Energy Loss Factor
Backbone Transmission (115 kV+)	1.020732	1.025762
Sub-Transmission (69 kV)	1.026867	1.031784
Distribution Primary	1.110806	1.096228
Secondary of Distribution Transformers	1.142271	1.11657
Secondary and Service Lines	1.147022	1.12008

	2016 - Present (based on 2016 Line Loss Study)	
Voltage Level	Demand Loss Factor	Energy Loss Factor
Backbone Transmission (115 kV+)	1.023667	1.029633
Sub-Transmission (69 kV)	1.030961	1.035919
Distribution Primary	1.131015	1.105898
Secondary of Distribution Transformers	1.161769	1.125047
Secondary and Service Lines	1.166539	1.128389

Part (a)(vi)

Southwestern Public Service Company (“SPS”) does not forecast line loss data.

Southwestern Public Service Company

Reliability Indices Information

Line No.	Year	(a) Total System			(b) New Mexico Jurisdiction		
		SAIDI ⁽¹⁾	SAIFI ⁽²⁾	CAIDI ⁽³⁾	SAIDI ⁽¹⁾	SAIFI ⁽²⁾	CAIDI ⁽³⁾
1	(c) Four Years Prior to the Test Year Period						
2	2019 Year End	121.0	1.10	110.5	136.6	1.20	114.0
3	2020 Year End	102.3	0.96	106.4	103.7	0.88	117.8
4	2021 Year End	113.8	0.99	115.5	128.5	1.14	112.5
5	Base Period - Twelve Months Ended 6/30/22	99.7	0.89	111.4	107.3	0.90	119.7
6	Forecast 2022 Year End ⁽⁴⁾	109.6	1.01	108.3	114.5	0.99	116.0
7	(d) Twelve Months of Test Year Period						
8	SPS forecasts targets to meet for the current year; however, SPS does not forecast beyond the current year. Therefore data is not available for the Test Year.						
9	(e) Five Years Beyond the Base Period						
10	Forecast 2022 Year End ⁽⁴⁾	109.6	1.01	108.3	114.5	0.99	116.0
11	2023 ⁽⁵⁾	-	-	-	-	-	-
12	2024 ⁽⁵⁾	-	-	-	-	-	-
13	2025 ⁽⁵⁾	-	-	-	-	-	-
14	2026 ⁽⁵⁾	-	-	-	-	-	-
15	2027 ⁽⁵⁾	-	-	-	-	-	-

Notes: SPS reliability indices are based on IEEE 1366 normalization methodology applied at the Operating Company level.

New Mexico reliability indices are based on IEEE 1366 normalization methodology applied at the State of New Mexico level.

$$^{(1)} \text{ SAIDI - System Average Interruption Duration Index } = \frac{\text{Sum of Customer Minutes Out (CMO)}}{\text{Total Number of Customers Served}}$$

Indicates the total duration of interruption (in minutes) for the average customer from outages lasting longer than 5 minutes

Customer Minutes Out (CMO) is the number of customers interrupted on an outage multiplied by its duration.

$$^{(2)} \text{ SAIFI - System Average Interruption Frequency Index } = \frac{\text{Sum of Sustained Customers Interrupted (SCI)}}{\text{Total Number of Customers Served}}$$

Indicates how many times the average customer experiences a sustained interruption lasting longer than 5 minutes over the measured period of time.

Sustained Customer Interruptions (SCI) is the number of customers interrupted from an outage.

$$^{(3)} \text{ CAIDI - Customer Average Interruption Duration Index } = \frac{\text{Sum of Customer Minutes Out (CMO)}}{\text{Sum of Sustained Customers Interrupted (SCI)}}$$

Indicates the average time (in minutes) to restore service of an outage lasting longer than 5 minutes over the measure period of time.

⁽⁴⁾ SPS 2022 forecast is based on using the current year-to-date June results added to the previous 5 year average July to December performance.

⁽⁵⁾ 17.1.3.8(A) NMAC requires providing reliability indices information for five years beyond the Base Period, rather than five years beyond the Test Year, as requested in 17.9.530.14(P)(10)(e) NMAC. However, SPS forecasts targets to meet for the current year, but does not forecast beyond the current year.

Southwestern Public Service Company

**Reserve Margin Information - Summer 2022 Planning Forecast
(a), (c), (e) Total System**

Line No.		2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
1	Owned Accredited Generating Capacity (MW)	4,472	4,335	4,333	4,302	4,151	4,151	4,151	3,906	3,906	3,611	2,323
2	Thermal Accredited Purchased Capacity (MW)	787	792	802	781	781	558	558	558	558	558	558
3	Renewable Owned / Purchased Accredited Capacity (MW)	453	478	410	300	501	501	493	483	390	361	356
4	Net Accredited Capacity (MW)	5,712	5,605	5,545	5,384	5,434	5,210	5,202	4,947	4,854	4,530	3,237
5	Capacity Unavailable (MW)	565	562	549	263	0	0	0	0	0	0	0
6	Total Net Capacity with Renewables (MW)	5,147	5,043	4,996	5,121	5,434	5,210	5,202	4,947	4,854	4,530	3,237
7	Total Net Capacity without Renewables (MW)	4,694	4,565	4,586	4,820	4,932	4,709	4,709	4,464	4,464	4,169	2,881
8	Peak Demand (MW)	4,261	4,118	4,018	4,255	4,101	4,238	4,371	4,393	4,540	4,587	4,718
9	Capacity Sales (MW)	-400	-531	0	0	0	0	0	0	0	0	0
10	SPS Reserve Margin with Renewables (%)	11.41%	9.57%	24.34%	20.35%	32.50%	22.94%	19.02%	12.60%	6.91%	-1.24%	-31.39%
11	SPS Reserve Margin without Renewables (%)	0.77%	-2.04%	14.14%	13.29%	20.27%	11.10%	7.74%	1.61%	-1.68%	-9.12%	-38.94%

For Informational Purposes

12	Unserviced Contractual Obligation (MW)	36	0	0	25	0	0	0	0	0	0	0
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(d) Twelve months of the Test Year Period

	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
13	Owned Accredited Generating Capacity (MW)	4,151	4,151	4,151	4,138	4,138	4,138	4,138	4,138	4,138	4,138	4,151
14	Thermal Accredited Purchased Capacity (MW)	781	781	781	818	818	818	818	818	818	818	558
15	Renewable Owned / Purchased Accredited Capacity (MW)	501	501	501	390	390	390	390	390	390	390	501
16	Net Accredited Capacity (MW)	5,434	5,434	5,434	5,346	5,346	5,346	5,346	5,346	5,346	5,346	5,210
17	Capacity Unavailable (MW)	0	0	0	0	0	0	0	0	0	0	0
18	Total Net Capacity with Renewables (MW)	5,434	5,434	5,434	5,346	5,346	5,346	5,346	5,346	5,346	5,346	5,210
19	Total Net Capacity without Renewables (MW)	4,932	4,932	4,932	4,956	4,956	4,956	4,956	4,956	4,956	4,956	4,709
20	Peak Demand (MW)	4,081	4,101	4,027	3,492	3,489	3,585	3,652	3,713	3,534	3,555	4,098
21	Capacity Sales (MW)	0	0	0	0	0	0	0	0	0	0	0
22	SPS Reserve Margin with Renewables (%)	33.15%	32.50%	34.92%	53.07%	53.21%	49.12%	46.38%	43.98%	51.27%	50.40%	27.14%
23	SPS Reserve Margin without Renewables (%)	20.86%	20.27%	22.47%	41.91%	42.03%	38.25%	35.70%	33.48%	40.24%	39.43%	14.91%

For Informational Purposes

24	Unserviced Contractual Obligation (MW)	0	0	0	0	0	0	0	0	0	0	0
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(b) New Mexico Jurisdiction. SPS does not track reserve margin by jurisdiction.

Southwestern Public Service Company

Reserve Margin Information - Updated Planning Forecast (a), (c), (e) Total System													
Line No.		2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
1	Owned Accredited Generating Capacity (MW)	4,472	4,335	4,333	4,302	4,151	4,151	4,151	3,906	3,906	3,611	2,323	
2	Thermal Accredited Purchased Capacity (MW)	787	792	802	781	781	558	558	558	558	558	558	
3	Renewable Owned / Purchased Accredited Capacity (MW)	453	478	410	300	501	501	493	483	390	361	356	
4	Net Accredited Capacity (MW)	5,712	5,605	5,545	5,384	5,434	5,210	5,202	4,947	4,854	4,530	3,237	
5	Capacity Unavailable (MW)	565	562	549	263	0	0	0	0	0	0	0	
6	Total Net Capacity with Renewables (MW)	5,147	5,043	4,996	5,121	5,434	5,210	5,202	4,947	4,854	4,530	3,237	
7	Total Net Capacity without Renewables (MW)	4,694	4,565	4,586	4,820	4,932	4,709	4,709	4,464	4,464	4,169	2,881	
8	Peak Demand (MW)	4,261	4,118	4,018	4,255	4,101	4,558	4,811	4,833	4,980	5,027	5,158	
9	Capacity Sales (MW)	-400	-531	0	0	0	0	0	0	0	0	0	
10	SPS Reserve Margin with Renewables (%)	11.41%	9.57%	24.34%	20.35%	32.50%	14.30%	8.14%	2.35%	-2.54%	-9.89%	-37.24%	
11	SPS Reserve Margin without Renewables (%)	0.77%	-2.04%	14.14%	13.29%	20.27%	3.30%	-2.12%	-7.64%	-10.36%	-17.07%	-44.15%	
For Informational Purposes													
12	Unservd Contractual Obligation (MW)	36	0	0	25	0	0	0	0	0	0	0	
(d) Twelve months of the Test Year Period													
		Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
13	Owned Accredited Generating Capacity (MW)	4,151	4,151	4,151	4,138	4,138	4,138	4,138	4,138	4,138	4,138	4,138	4,151
14	Thermal Accredited Purchased Capacity (MW)	781	781	781	818	818	818	818	818	818	818	818	558
15	Renewable Owned / Purchased Accredited Capacity (MW)	501	501	501	390	390	390	390	390	390	390	390	501
16	Net Accredited Capacity (MW)	5,434	5,434	5,434	5,346	5,346	5,346	5,346	5,346	5,346	5,346	5,346	5,210
17	Capacity Unavailable (MW)	0	0	0	0	0	0	0	0	0	0	0	0
18	Total Net Capacity with Renewables (MW)	5,434	5,434	5,434	5,346	5,346	5,346	5,346	5,346	5,346	5,346	5,346	5,210
19	Total Net Capacity without Renewables (MW)	4,932	4,932	4,932	4,956	4,956	4,956	4,956	4,956	4,956	4,956	4,956	4,709
20	Peak Demand (MW)	4,081	4,101	4,227	3,692	3,689	3,785	3,852	3,913	3,734	3,875	4,289	4,418
21	Capacity Sales (MW)	0	0	0	0	0	0	0	0	0	0	0	0
22	SPS Reserve Margin with Renewables (%)	33.15%	32.50%	28.54%	44.78%	44.90%	41.24%	38.78%	36.62%	43.17%	37.98%	24.64%	17.93%
23	SPS Reserve Margin without Renewables (%)	20.86%	20.27%	16.68%	34.22%	34.33%	30.94%	28.66%	26.66%	32.73%	27.91%	15.55%	6.58%
For Informational Purposes													
24	Unservd Contractual Obligation (MW)	0	0	0	0	0	0	0	0	0	0	0	0

(b) New Mexico Jurisdiction. SPS does not track reserve margin by jurisdiction.

Southwestern Public Service Company

Fuel Statistics Information

Parts (a, c, d, e & f) Four Years Prior to Test Year
Total Company

Line No.	Description	Year Ended 12/31/2017	Year Ended 12/31/2018	Year Ended 12/31/2019	Year Ended 12/31/2020	Year Ended 12/31/2021
1	<u>Cost of Fuel (\$)</u>					
2	Coal Cost	\$ 178,575,514	\$ 143,141,708	\$ 115,567,805	\$ 90,149,861	\$ 130,804,890
3	Gas Cost	\$ 121,077,493	160,755,274	93,080,509	114,481,423	273,548,816
4	Oil Cost	\$ 151,035	623,649	88,807	82,779	2,481,249
5	<u>Cost of Fuel by Type</u>					
6	Coal (\$ /MMBtu)	\$ 1.75	\$ 1.59	\$ 1.70	\$ 1.67	\$ 1.68
7	Gas (\$ /MMBtu)	3.39	2.24	1.14	1.43	6.72
8	Oil (\$ /MMBtu)	15.96	15.03	14.18	17.08	12.83
9	<u>Generation by Type (MWh)</u>					
10	Coal	9,776,148	8,535,946	6,476,992	5,202,536	7,313,820
11	Gas	3,079,842	6,419,303	7,186,857	6,845,138	3,340,020
12	Oil	196	169	231	246	1,244
13	<u>Total Fuel</u>					
14	Total Fuel Cost (\$)	\$ 299,804,042	\$ 304,520,631	\$ 208,737,121	\$ 204,714,063	\$ 406,834,955
15	Cost (\$ /MMBtu)	2.18	\$ 1.88	\$ 1.40	\$ 1.53	\$ 3.43
16	Generation - (MWh)	12,856,185	14,955,418	13,664,080	12,047,920	10,655,084

Southwestern Public Service Company

Fuel Statistics Information

Parts (a, c, d, e & f) Four Years Prior to Test Year
Total Company

Line No.	Description	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
1	<u>Cost of Fuel (\$)</u>						
2	Coal Cost	\$ 20,504,254	\$ 24,081,644	\$ 9,629,780	\$ 9,051,890	\$ 9,739,010	\$ 15,437,830
3	Gas Cost	44,380,333	53,606,100	23,526,997	19,625,147	13,939,339	9,378,486
4	Oil Cost	-	-	-	-	-	-
5	<u>Cost of Fuel by Type</u>						
6	Coal (\$ /MMBtu)	\$ 2.00	\$ 2.04	\$ 2.00	\$ 2.02	\$ 2.02	\$ 1.99
7	Gas (\$ /MMBtu)	6.46	7.97	7.84	4.09	4.68	6.76
8	Oil (\$ /MMBtu)	-	-	-	-	-	-
9	<u>Generation by Type (MWh)</u>						
10	Coal	987,142,000	1,133,637,000	441,970,000	404,340,000	434,950,000	746,460,000
11	Gas	570,734,000	565,796,000	272,850,000	443,090,000	270,410,000	122,980,000
12	Oil	-	-	-	-	-	-
13	<u>Total Fuel</u>						
14	Total Fuel Cost (\$)	\$ 64,884,588	\$ 77,687,745	\$ 33,156,777	\$ 28,677,037	\$ 23,678,349	\$ 24,816,316
15	Cost (\$ /MMBtu)	\$ 3.79	\$ 4.19	\$ 4.25	\$ 3.09	\$ 3.04	\$ 2.71
16	Generation - (MWh)	1,557,876,000	1,699,433,000	714,820,000	847,430,000	705,360,000	869,440,000

Southwestern Public Service Company

Fuel Statistics Information

Parts (a, c, d, e & f) Four Years Prior to Test Year
Total Company

Line No.	Description	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Total
1	<u>Cost of Fuel (\$)</u>							
2	Coal Cost	\$ 15,740,090	\$ 14,111,370	\$ 8,971,350	\$ 6,538,220	\$ 6,856,170	\$ 13,320,220	\$ 153,981,828
3	Gas Cost	12,208,926	14,373,777	11,743,414	11,209,400	16,686,639	19,441,538	250,120,098
4	Oil Cost	-	-	-	-	-	-	-
5	<u>Cost of Fuel by Type</u>							
6	Coal (\$ /MMBtu)	\$ 1.91	\$ 1.93	\$ 1.92	\$ 1.95	\$ 1.92	\$ 1.96	\$ 1.98
7	Gas (\$ /MMBtu)	7.50	7.43	4.57	3.21	2.81	2.91	5.21
8	Oil (\$ /MMBtu)	-	-	-	-	-	-	-
9	<u>Generation by Type (MWh)</u>							
10	Coal	792,420,000	704,350,000	445,860,000	313,720,000	337,720,000	651,610,000	7,394,179,000
11	Gas	145,670,000	174,110,000	230,060,000	312,390,000	536,700,000	607,300,000	4,252,090,000
12	Oil	-	-	-	-	-	-	-
13	<u>Total Fuel</u>							
14	Total Fuel Cost (\$)	\$ 27,949,016	\$ 28,485,147	\$ 20,714,764	\$ 17,747,620	\$ 23,542,809	\$ 32,761,758	\$ 404,101,926
15	Cost (\$ /MMBtu)	\$ 2.83	\$ 3.08	\$ 2.86	\$ 2.59	\$ 2.48	\$ 2.43	\$ 3.21
16	Generation - (MWh)	938,090,000	878,460,000	675,920,000	626,110,000	874,420,000	1,258,910,000	11,646,269,000

Note: Coal cost excludes Non-mine and Non-freight costs
The Company does not forecast oil costs
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Southwestern Public Service Company

Fuel Statistics Information

Parts (a, c, d, e & f) Four Years Prior to Test Year
Total Company

Line No.	Description	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23
1	<u>Cost of Fuel (\$)</u>						
2	Coal Cost	\$ 15,270,210	\$ 14,530,110	\$ 12,112,820	\$ 10,023,420	\$ 9,562,730	\$ 13,061,300
3	Gas Cost	23,602,623	21,374,845	17,769,647	23,511,965	14,381,822	11,534,190
4	Oil Cost	-	-	-	-	-	-
5	<u>Cost of Fuel by Type</u>						
6	Coal (\$ /MMBtu)	\$ 2.02	\$ 2.03	\$ 2.04	\$ 1.91	\$ 1.91	\$ 1.91
7	Gas (\$ /MMBtu)	3.19	3.19	3.21	3.35	4.48	5.82
8	Oil (\$ /MMBtu)	-	-	-	-	-	-
9	<u>Generation by Type (MWh)</u>						
10	Coal	722,650,000	682,210,000	567,760,000	503,020,000	478,480,000	658,840,000
11	Gas	678,760,000	611,380,000	502,670,000	648,770,000	291,890,000	180,120,000
12	Oil	-	-	-	-	-	-
13	<u>Total Fuel</u>						
14	Total Fuel Cost (\$)	\$ 38,872,833	\$ 35,904,955	\$ 29,882,467	\$ 33,535,385	\$ 23,944,552	\$ 24,595,490
15	Cost (\$ /MMBtu)	\$ 2.60	\$ 2.59	\$ 2.60	\$ 2.73	\$ 2.92	\$ 2.78
16	Generation - (MWh)	1,401,410,000	1,293,590,000	1,070,430,000	1,151,790,000	770,370,000	838,960,000

Southwestern Public Service Company

Fuel Statistics Information

Parts (a, c, d, e & f) Four Years Prior to Test Year
Total Company

Line No.	Description	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Total
1	<u>Cost of Fuel (\$)</u>							
2	Coal Cost	\$ 15,979,250	\$ 14,393,310	\$ 12,341,980	\$ 8,205,090	\$ 7,352,750	\$ 15,692,820	\$ 148,525,790
3	Gas Cost	12,456,146	8,925,408	8,556,452	8,254,506	15,231,513	13,780,613	179,379,730
4	Oil Cost	-	-	-	-	-	-	-
5	<u>Cost of Fuel by Type</u>							
6	Coal (\$ /MMBtu)	\$ 1.99	\$ 1.99	\$ 2.02	\$ 2.03	\$ 2.06	\$ 2.10	\$ 2.00
7	Gas (\$ /MMBtu)	6.49	7.10	5.51	4.25	3.55	4.20	3.89
8	Oil (\$ /MMBtu)	-	-	-	-	-	-	-
9	<u>Generation by Type (MWh)</u>							
10	Coal	773,700,000	696,420,000	581,840,000	380,900,000	334,690,000	716,540,000	7,097,050,000
11	Gas	176,240,000	113,080,000	142,520,000	176,090,000	386,380,000	296,240,000	4,204,140,000
12	Oil	-	-	-	-	-	-	-
13	<u>Total Fuel</u>							
14	Total Fuel Cost (\$)	\$ 28,435,396	\$ 23,318,718	\$ 20,898,432	\$ 16,459,596	\$ 22,584,263	\$ 29,473,433	\$ 327,905,520
15	Cost (\$ /MMBtu)	\$ 2.85	\$ 2.75	\$ 2.73	\$ 2.75	\$ 2.87	\$ 2.74	\$ 2.73
16	Generation - (MWh)	949,940,000	809,500,000	724,360,000	556,990,000	721,070,000	1,012,780,000	11,301,190,000

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