

Southwestern Public Service Company
Capital Cost Methodology
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Line No.	Description
1	Absorber Tower System
2	Absorber Tower System-Control
3	Absorber Tower System-Motor
4	Absorber Tower System-Station Piping
5	Absorber Tower System-Tank
6	Accumulator
7	Air Conditioner
8	Air Heater System
9	Air Heater System-Control
10	Air Heater System-Motor
11	Air Heater System-Station Piping
12	Air Heater System-Tank
13	Air Quality Control System
14	Air Quality Control System-Control
15	Air Quality Control System-Motor
16	Air Quality Control System-Station Piping
17	Alarm-Annunciator System
18	Analyzer
19	AR15 Communication Equip-EMS
20	AR15 Communication Equipment
21	AR15 Communication Equipment-AES
22	AR15 Communication Equip-Two Way
23	AR15 Laboratory Equipment
24	AR15 Miscellaneous Equipment
25	AR15 Network Equipment
26	AR15 Office Furniture & Equipment
27	AR15 Power Operated Equipment
28	AR15 Property-Life 25 Years
29	AR15 Stores Equipment
30	AR15 Tools/Shop/Garage Equipment
31	AR15 Transportation Eq-Automobiles
32	AR15 Transportation Eq-Heavy Trucks
33	AR15 Transportation Eq-Light Trucks
34	AR15 Transportation Eq-Trailers
35	ARC-Elec Distribution
36	ARC-Elec General
37	ARC-Elec Other Production
38	ARC-Elec Steam Production
39	ARC-Elec Transmission
40	Arrester 34.5Kvtem
41	Arrester 44Kv

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Line No.	Description
42	Arrester 69Kv
43	Arrester 88Kv
44	Arrester 115Kv
45	Arrester 138Kv
46	Arrester 161Kv
47	Arrester 230Kv
48	Arrester 345Kv
49	Arrester 500Kv
50	Arrester Distribution
51	Arrester-Polarization Cell
52	Auxiliary Boiler
53	Auxiliary Boiler-Control
54	Auxiliary Boiler-Motor
55	Battery Storage
56	Battery Storage Station
57	Blowdown Cooling System
58	Blowdown Cooling System-Control
59	Blowdown Cooling System-Motor
60	Blowdown Cooling System-Station Piping
61	Blowdown Cooling System-Tank
62	Boiler
63	Boiler Blowdown System
64	Boiler Blowdown System-Control
65	Boiler Blowdown System-Motor
66	Boiler Blowdown System-Station Piping
67	Boiler Blowdown System-Tank
68	Boiler-Control
69	Bottom Ash System
70	Bottom Ash System-Control
71	Bottom Ash System-Motor
72	Bottom Ash System-Station Piping
73	Bottom Ash System-Tank
74	Bridge
75	Building Cooling Plant
76	Building Garage
77	Building Generating Station
78	Building Maint Equip (Buffers, Floor Machines, Etc.)
79	Building Office
80	Building Other
81	Building Station Control
82	Capacitor Bank 34.5KV

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83	Capacitor Bank 44KV
84	Capacitor Bank 69KV
85	Capacitor Bank 88KV
86	Capacitor Bank 115KV
87	Capacitor Bank 138KV
88	Capacitor Bank 161KV
89	Capacitor Bank 230KV
90	Capacitor Bank 345KV
91	Capacitor Bank 500KV
92	Capacitor Distribution
93	Car Railroad Coal
94	Charger Battery
95	Charger Battery Station
96	Chemical and Volume Control System
97	Chemical and Volume Control System-Control
98	Chemical and Volume Control System-Motor
99	Chemical and Volume Control System-Station Piping
100	Chemical and Volume Control System-Tank
101	Chemical Feed System
102	Chemical Feed System-Control
103	Chemical Feed System-Motor
104	Chemical Feed System-Station Piping
105	Chemical Feed System-Tank
106	Chromatograph
107	Circuit Breaker 34.5KV
108	Circuit Breaker 44KV
109	Circuit Breaker 69KV
110	Circuit Breaker 88KV
111	Circuit Breaker 115KV
112	Circuit Breaker 138KV
113	Circuit Breaker 230KV
114	Circuit Breaker 345KV
115	Circuit Breaker 500KV
116	Circuit Breaker Distribution
117	Circulating Water System
118	Circulating Water System-Control
119	Circulating Water System-Motor
120	Circulating Water System-Station Piping
121	Coal Feeder System
122	Coal Feeder System-Control
123	Coal Feeder System-Motor

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124	Coal Handling System
125	Coal Handling System-Control
126	Coal Handling System-Conveyor
127	Coal Handling System-Conveyor-Control
128	Coal Handling System-Conveyor-Motor
129	Coal Handling System-Hopper
130	Coal Handling System-Motor
131	Coal Handling System-Station Piping
132	Coal Handling System-Tank
133	Commercial Vapor System
134	Commercial Vapor System-Control
135	Commercial Vapor System-Motor
136	Commercial Vapor System-Station Piping
137	Component-Closed Cleaning Water System
138	Component-Closed Cleaning Water System-Control
139	Component-Closed Cleaning Water System-Motor
140	Component-Closed Cleaning Water System-Station Piping
141	Component-Closed Cleaning Water System-Tank
142	Compressor Air
143	Compressor Gas
144	Compressor-Turbine Gas
145	Computer Equipment
146	Condensate Polishing System
147	Condensate Polishing System-Control
148	Condensate Polishing System-Motor
149	Condensate Polishing System-Station Piping
150	Condensate Polishing System-Tank
151	Condensate Recovery System
152	Condensate Recovery System-Control
153	Condensate Recovery System-Motor
154	Condensate Recovery System-Station Piping
155	Condensate Recovery System-Tank
156	Condensate System
157	Condensate System-Control
158	Condensate System-Motor
159	Condensate System-Station Piping
160	Condensate System-Tank
161	Condenser
162	Condenser-Control
163	Condenser-Motor
164	Condenser-Station Piping

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165	Conductor Overhead
166	Conductor Overhead Secondary
167	Conductor Underground
168	Conductor Underground Secondary
169	Conduit
170	Controls
171	Controls Station
172	Controls-Computer System-Plant Process
173	Cooler Elec Trans
174	Cooling Tower System
175	Cooling Tower System-Control
176	Cooling Tower System-Motor
177	Cooling Tower System-Station Piping
178	Cooling Tower System-Tank
179	Cooling Water System
180	Cooling Water System-Control
181	Cooling Water System-Motor
182	Cooling Water System-Station Piping
183	Cooling Water System-Tank
184	Cooling Water System-Well
185	Crane and Hoist System
186	Cubicle for Metal Clad Switchgear Distribution
187	Dam
188	Dam-Gravity Section
189	Dampers
190	Dam-Spillway
191	Dam-Substructure
192	Deaerator
193	Dehydrator
194	Dehydrator Air
195	Dehydrator Gas
196	Dehydrator Glycol
197	Detector
198	Device Potential
199	Diesel Generator System
200	Diesel Generator System-Control
201	Diesel Generator System-Motor
202	Diesel Generator System-Station Piping
203	Diesel Generator System-Tank
204	Ditch
205	Dryer

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206	Duct Bank
207	Dust Collection System
208	Dust Collection System-Control
209	Dust Collection System-Motor
210	Dust Collection System-Station Piping
211	Dust Control System
212	Dust Control System-Control
213	Dust Control System-Motor
214	Dust Control System-Station Piping
215	Dust Control System-Tank
216	Electro Hydraulic System
217	Electro Hydraulic System-Control
218	Electro Hydraulic System-Motor
219	Electro Hydraulic System-Station Piping
220	Equipment Farm
221	Equipment Foundation
222	Equipment Mechanical
223	EV Charger
224	Evaporator
225	Exciter
226	Exciter-Control
227	Extraction Steam System
228	Extraction Steam System-Control
229	Extraction Steam System-Motor
230	Extraction Steam System-Station Piping
231	Fan/Blower, Complete
232	Fault Interrupter Distribution
233	Fault Interrupter 34.5KV
234	Fault Interrupter 44KV
235	Fault Interrupter 69KV
236	Fault Interrupter 115KV
237	Fault Interrupter 138KV
238	Fault Interrupter 161KV
239	Fault Interrupter 230KV
240	Fault Interrupter 345KV
241	Fault Interrupter 500KV
242	Fault Interrupter 88KV
243	Feedwater System
244	Feedwater System-Control
245	Feedwater System-Motor
246	Feedwater System-Station Piping

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247	Fence
248	Fence Protective
249	Fiber Optic
250	Filter-Separator-Strainer System
251	Filter-Separator-Strainer System-Motor
252	Fire Detection System
253	Fire Protection System
254	Fire Protection System-Control
255	Fire Protection System-Motor
256	Fire Protection System-Station Piping
257	Fire Protection System-Tank
258	Flue Gas Reheater System
259	Flue Gas Reheater System-Control
260	Flue Gas Reheater System-Motor
261	Flue Gas Reheater System-Station Piping
262	Flue Gas Reheater System-Tank
263	Fly Ash Disposal System
264	Fly Ash Disposal System
265	Fly Ash Disposal System-Motor
266	Fly Ash Disposal System-Station Piping
267	Fly Ash Disposal System-Tank
268	Forced Draft Fan System
269	Forced Draft Fan System-Control
270	Forced Draft Fan System-Motor
271	Forced Draft Fan System-Station Piping
272	Forced Draft Fan System-Tank
273	Foundation Transformer Electric Distribution
274	Franchises and Consents
275	Fuel Transfer System
276	Fuel Transfer System-Control
277	Fuel Transfer System-Motor
278	Fuel Transfer System-Station Piping
279	Fuel Transfer System-Tank
280	Fuel Treatment Equipment
281	Fuel Treatment Equipment-Motor
282	Fuel Treatment Equipment-Station Piping
283	Fuel Treatment Equipment-Tank
284	Fuse Mounting 34.5KV
285	Fuse Mounting 44KV
286	Fuse Mounting 69KV
287	Fuse Mounting 88KV

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288	Fuse Mounting 115KV
289	Fuse Mounting 138KV
290	Fuse Mounting 161KV
291	Fuse Mounting 230KV
292	Fuse Mounting 345KV
293	Fuse Mounting 500KV
294	Fuse Mounting Distribution
295	Gas Injection-Recirc Fan System
296	Gas Injection-Recirc Fan System-Control
297	Gas Injection-Recirc Fan System-Motor
298	Gas Injection-Recirc Fan System-Station Piping
299	Gas Injection-Recirc Fan System-Tank
300	Gas Sampling System
301	Gas Turbine
302	Gas Turbine Air Cooling System
303	Gas Turbine Air Cooling System-Control
304	Gas Turbine Air Cooling System-Motor
305	Gas Turbine Air Cooling System-Station Piping
306	Gas Turbine Atomizing Air System
307	Gas Turbine Atomizing Air System-Control
308	Gas Turbine Atomizing Air System-Motor
309	Gas Turbine Atomizing Air System-Station Piping
310	Gas Turbine Lube Oil System
311	Gas Turbine Lube Oil System-Control
312	Gas Turbine Lube Oil System-Motor
313	Gas Turbine Lube Oil System-Station Piping
314	Gas Turbine Lube Oil System-Tank
315	Gas Turbine-Control
316	Gas Turbine-Motor
317	Gas Turbine-Station Piping
318	Generator
319	Generator Cooling and Purge System
320	Generator Cooling and Purge System-Control
321	Generator Cooling and Purge System-Motor
322	Generator Cooling and Purge System-Station Piping
323	Generator Emergency Power Supply
324	Generator Liquid Cooling System
325	Generator Liquid Cooling System-Control
326	Generator Liquid Cooling System-Motor
327	Generator Liquid Cooling System-Station Piping
328	Generator Liquid Cooling System-Tank

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329	Generator Seal Oil System
330	Generator Seal Oil System-Control
331	Generator Seal Oil System-Motor
332	Generator Seal Oil System-Station Piping
333	Generator Seal Oil System-Tank
334	Generator Standby
335	Generator-Control
336	Generator-Motor
337	Generator-Station Piping
338	Guy Wire
339	Headworks Equipment
340	Headworks Equipment-Motor
341	Headworks Equipment-Station Piping
342	Heat Exchanger
343	Heat Recovery Steam Generator
344	Heat Recovery Steam Generator-Control
345	Heat Recovery Steam Generator-Motor
346	Heat Recovery Steam Generator-Station Piping
347	Heat Recovery Steam Generator-Tank
348	Heater Vents and Drains System
349	Heater Vents and Drains System-Control
350	Heater Vents and Drains System-Motor
351	Heater Vents and Drains System-Station Piping
352	Heater Vents and Drains System-Tank
353	Heater-Gas Line
354	Housing
355	Hydrogen Supply System
356	Hydrogen Supply System-Control
357	Hydrogen Supply System-Motor
358	Hydrogen Supply System-Station Piping
359	Induced Draft Fan System
360	Induced Draft Fan System-Control
361	Induced Draft Fan System-Motor
362	Induced Draft Fan System-Station Piping
363	Installation Reactor
364	Installation Transformer
365	Installation Transformer
366	Instrument Air System
367	Instrument Air System-Gas
368	Instrument Air System-Gas-Station Piping
369	Instrument Air System-Station Piping

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370	Instrument Air System-Tank
371	Insulator
372	Intake Screens System
373	Intake Screens System-Motor
374	Intake Screens System-Station Piping
375	Inverter
376	Land and Rights (Non Depreciable)
377	Land Owned In Fee (Non Depreciable)
378	Launcher Receiver
379	Licenses
380	Limestone Handling System
381	Limestone Handling System-Control
382	Limestone Handling System-Motor
383	Limestone Handling System-Station Piping
384	Limestone Handling System-Tank
385	LNG Storage Tank
386	Locomotive
387	LPG Process Control System
388	Luminaire
389	Main Gas Plastic 2 inch and under
390	Main Gas Plastic over 10 inch to 12 inch
391	Main Gas Plastic over 12 inch to 20 inch
392	Main Gas Plastic over 2 inch to 4 inch
393	Main Gas Plastic over 4 inch to 8 inch
394	Main Gas Plastic over 8 inch to 10 inch
395	Main Gas Steel 2 inch and under
396	Main Gas Steel over 10 inch to 12 inch
397	Main Gas Steel over 12 inch to 20 inch
398	Main Gas Steel over 2 inch to 4 inch
399	Main Gas Steel over 20 inch to 28 inch
400	Main Gas Steel over 28 inch
401	Main Gas Steel over 4 inch to 8 inch
402	Main Gas Steel over 8 inch to 10 inch
403	Main Line Connection Gas
404	Main Steam System
405	Main Steam System-Control
406	Main Steam System-Motor
407	Main Water Coat or Wrap
408	Main Water Plastic
409	Material Handling Equipment
410	Main Steam System-Station Piping

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Line No.	Description
411	Meter AMR
412	Meter Electric
413	Meter Electric ERT (Encoder, Recorder, Transmitter)
414	Meter Gas ERT (Encoder, Recorder, Transmitter)
415	Meter Gas Group 1
416	Meter Gas Group 1 and 2 Installation
417	Meter Gas Group 2
418	Meter Gas Group 3
419	Meter Gas Group 4
420	Meter Gas Groups 3 and 4 Installation
421	Meter Gas Orifice-Flow
422	Meter Gas Orifice-Installation
423	Meter Gas Rotary
424	Meter Gas Rotary and Turbine-Installation
425	Meter Gas Turbine
426	Meters and Gauges (All Types)
427	Minor Items-Pole Trussing
428	Mobile Relay Panel
429	Monitoring System
430	Monitoring System - Environmental
431	Monitoring System - Station
432	Monitoring System - Weather
433	Monitoring System-Continuous Emissions
434	Monitoring System-Emission Analyzer
435	Motor Control Center
436	Motor Control Center-Inverter
437	Motor Generator Set
438	Network Protector Distribution
439	NOX Control Equipment
440	NOX Control Equipment-Control
441	NOX Control Equipment-Motor
442	NOX Control Equipment-Station Piping
443	Odorizing System
444	Oil Firing System
445	Oil Firing System-Control
446	Oil Firing System-Motor
447	Oil Firing System-Station Piping
448	Oil Firing System-Tank
449	Oil Storage System
450	Oil Storage System-Control
451	Oil Storage System-Motor

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452	Oil Storage System-Tank
453	Oil Supply System
454	Oil Supply System-Control
455	Oil Supply System-Motor
456	Oil Supply System-Station Piping
457	Oil Supply System-Tank
458	Pedestrian
459	Petroleum Extraction Package Unit
460	Photovoltaic Unit
461	Pipe Transmission Line
462	Plant Electrical Distribution System
463	Pole Not Wood
464	Pole Wood
465	Pole, Cross Arm
466	Pole, Cross Arm
467	Pole, Insulated Cross Arm
468	Pole, Insulated Cross Arm
469	Pond
470	Pond
471	Potable Water System
472	Potable Water System-Control
473	Potable Water System-Motor
474	Potable Water System-Station Piping
475	Potable Water System-Tank
476	Potable Water System-Well
477	Power Conditioning Unit
478	Power Line Carrier Coupling Capacitor 34.5KV
479	Power Line Carrier Coupling Capacitor 44KV
480	Power Line Carrier Coupling Capacitor 69KV
481	Power Line Carrier Coupling Capacitor 88KV
482	Power Line Carrier Coupling Capacitor 115KV
483	Power Line Carrier Coupling Capacitor 1161KV
484	Power Line Carrier Coupling Capacitor 138KV
485	Power Line Carrier Coupling Capacitor 230KV
486	Power Line Carrier Coupling Capacitor 345KV
487	Power Line Carrier Coupling Capacitor 500KV
488	Power Line Carrier System
489	Power Supply
490	Power Supply Uninterruptible
491	Precipitator/Ash Collection System
492	Precipitator/Ash Collection System-Control

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493	Precipitator/Ash Collection System-Hopper
494	Precipitator/Ash Collection System-Motor
495	Pre-Warm Steam Turbine Bypass System
496	Pre-Warm Steam Turbine Bypass System-Control
497	Pre-Warm Steam Turbine Bypass System-Motor
498	Pre-Warm Steam Turbine Bypass System-Station Piping
499	Primary Air System
500	Primary Air System-Control
501	Primary Air System-Motor
502	Pump
503	Rail Car Unloading Building & Equipment
504	Rail Car Unloading Building & Equipment-Control
505	Rail Car Unloading Building & Equipment-Motor
506	Railway System
507	Reactor 34.5KV
508	Reactor 69KV
509	Reactor 88KV
510	Reactor 115KV
511	Reactor 138KV
512	Reactor 161KV
513	Reactor 230KV
514	Reactor 345KV
515	Reactor 500KV
516	Reactor Distribution
517	Recloser
518	Recorder Electric Metering
519	Rectifier
520	Regulator Gas
521	Regulator Voltage 69KV
522	Regulator Voltage Auto Booster Distribution
523	Regulator Voltage Single Phase Distribution
524	Regulator Voltage Three Phase 44KV
525	Regulator Voltage Three Phase Distribution
526	Reheat Steam System
527	Reheat Steam System-Control
528	Reheat Steam System-Motor
529	Reheat Steam System-Station Piping
530	Reservoir
531	Right of Way (Amortized)
532	Right of Way (Depreciable)
533	Right of Way (Non-Depreciable)

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534	Road
535	Sampling System
536	Sampling System-Control
537	Sampling System-Station Piping
538	Scale Platform
539	Seal Air System
540	Seal Air System-Control
541	Seal Air System-Station Piping
542	Sectionalizer Distribution
543	Sectionalizer Oil Distribution
544	Service Electric Overhead
545	Service Electric Underground
546	Service Gas Plastic
547	Service Steel
548	Service Water System
549	Service Water System-Control
550	Service Water System-Motor
551	Service Water System-Station Piping
552	Service Water System-Tank
553	Site Grounding System
554	Site Security System
555	Slurry Reclaim System
556	Slurry Reclaim System-Control
557	Slurry Reclaim System-Motor
558	Slurry Reclaim System-Station Piping
559	Slurry Reclaim System-Tank
560	Software
561	Soot Blowing System
562	Soot Blowing System-Control
563	Soot Blowing System-Station Piping
564	Spillway
565	Stack
566	Stack-Control
567	Stacker-Reclaimer System
568	Stacker-Reclaimer System-Control
569	Stacker-Reclaimer System-Motor
570	Stack-Muffler/Silencer
571	Standard
572	Station Air System
573	Station Air System-Motor
574	Station Air System-Station Piping

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575	Station Controls
576	Station Piping
577	Station Wiring
578	Station/Auxiliary Transformer
579	Steam Turbine
580	Steam Turbine-Piping Station
581	Structure Substation Equipment and Bus 34.5KV
582	Structure Substation Equipment and Bus 44KV
583	Structure Substation Equipment and Bus 69KV
584	Structure Substation Equipment and Bus 88KV
585	Structure Substation Equipment and Bus 115KV
586	Structure Substation Equipment and Bus 138KV
587	Structure Substation Equipment and Bus 161KV
588	Structure Substation Equipment and Bus 230KV
589	Structure Substation Equipment and Bus 345KV
590	Structure Substation Equipment and Bus 500KV
591	Structure Substation Equipment and Bus Distribution
592	Substation Package Unit 115KV
593	Substation Package Unit 230KV
594	Substation Package Unit 345KV
595	Substation Package Unit 44KV
596	Substation Package Unit 69KV
597	Substation Package Unit Distribution
598	Substation Package Unit-Mobile
599	Substation Portable 115 69-44-13KV
600	Substation Portable 115-25 13KV
601	Substation Portable 115-69 13KV
602	Substation Portable 44-25 4Kv
603	Substation Vault
604	Switch Cabinet Distribution
605	Switch Disconnect 34.5KV
606	Switch Disconnect 44KV
607	Switch Disconnect 69KV
608	Switch Disconnect 88KV
609	Switch Disconnect 115KV
610	Switch Disconnect 138KV
611	Switch Disconnect 161KV
612	Switch Disconnect 230KV
613	Switch Disconnect 345KV
614	Switch Disconnect 500KV
615	Switch Disconnect Distribution

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616	Switch Gang 34.5KV
617	Switch Gang 44KV
618	Switch Gang 69KV
619	Switch Gang 88KV
620	Switch Gang 115KV
621	Switch Gang 138KV
622	Switch Gang 161KV
623	Switch Gang 230KV
624	Switch Gang 345KV
625	Switch Gang 500KV
626	Switch Gang Distribution
627	Switch Gang Grounding 34.5KV
628	Switch Gang Grounding 44KV
629	Switch Gang Grounding 69KV
630	Switch Gang Grounding 88KV
631	Switch Gang Grounding 115KV
632	Switch Gang Grounding 138KV
633	Switch Gang Grounding 161KV
634	Switch Gang Grounding 230KV
635	Switch Gang Grounding 300KV
636	Switch Gang Grounding 345KV
637	Switch Gang Oil Distribution
638	Switch Oil Distribution
639	Switch Radio Activated Service Interruption
640	Switch Vacuum Capacitor 69KV
641	Tank
642	Termination
643	Tower
644	Tower Substation Deadend 34.5KV
645	Tower Substation Deadend 44KV
646	Tower Substation Deadend 69KV
647	Tower Substation Deadend 88KV
648	Tower Substation Deadend 115KV
649	Tower Substation Deadend 138KV
650	Tower Substation Deadend 161KV
651	Tower Substation Deadend 230KV
652	Tower Substation Deadend 345KV
653	Tower Substation Deadend Distribution
654	Transfer Piping System
655	Transformer Auto 600V and Less
656	Transformer Grounding Single Phase Distribution

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Line No.	Description
657	Transformer Grounding Three Phase Distribution
658	Transformer Instrument Current Potential Voltage Constant Current Voltage
659	Transformer Line Amortized
660	Transformer Line Overhead Single Phase
661	Transformer Line Overhead Three Phase
662	Transformer Line Underground Single Phase
663	Transformer Line Underground Three Phase
664	Transformer Potential Device
665	Transformer Single Phase 600V and Less
666	Transformer Special Auto Balance
667	Transformer Special Auxiliary Phasing
668	Transformer Special Control
669	Transformer Special Ignition
670	Transformer Special Insulating
671	Transformer Special Isolating
672	Transformer Special Low Voltage
673	Transformer Special Phase Changing
674	Transformer Special Phase Shifting
675	Transformer Special Saturating Current
676	Transformer Special Single phase
677	Transformer Special Three phase
678	Transformer Special Variable
679	Transformer Special Voltage 230KV
680	Transformer Special Voltage 345KV
681	Transformer Start-up
682	Transformer Station/Aux
683	Transformer Substation 44KV
684	Transformer Substation 69KV
685	Transformer Substation 88KV
686	Transformer Substation 115KV
687	Transformer Substation 138KV
688	Transformer Substation 230KV
689	Transformer Substation 345KV
690	Transformer Substation 500KV
691	Transformer Substation Auto 115KV
692	Transformer Substation Auto 138KV
693	Transformer Substation Auto 230KV
694	Transformer Substation Auto 345KV
695	Transformer Substation Auto 88KV
696	Transformer Substation Single Phase Distribution
697	Transformer Substation Three Phase Distribution

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Line No.	Description
698	Transformer Substation-Generation Step-up
699	Tunnel
700	Turbine
701	Turbine Air Intake System
702	Turbine Air Intake System-Control
703	Turbine Air Intake System-Motor
704	Turbine Crane
705	Turbine Crane-Motor
706	Turbine Gland Seal System
707	Turbine Gland Seal System-Motor
708	Turbine Gland Seal System-Station Piping
709	Turbine Lube Oil System
710	Turbine Lube Oil System-Control
711	Turbine Lube Oil System-Motor
712	Turbine Lube Oil System-Station Piping
713	Turbine Lube Oil System-Tank
714	Turbine Steam Pipe System-Control
715	Turbine Steam Pipe System-Motor
716	Turbine Steam Pipe System-Station Piping
717	Turbine-Station Piping
718	Turbine-Waterwheel
719	Turbine-Waterwheel-Motor
720	Turbine-Waterwheel-Station Piping
721	Valve
722	Valve Control
723	Valve Set
724	Valve Silencer
725	Vault
726	Warning System, Off-Site
727	Waste Solid Disposal System
728	Waste Solid Disposal System-Control
729	Waste Solid Disposal System-Motor
730	Waste Solid Disposal System-Station Piping
731	Waste Solid Disposal System-Tank
732	Water Management System
733	Water Management System-Motor
734	Water Management System-Penstock
735	Water Management System-Spillway
736	Water Management System-Station Piping
737	Water Right
738	Water Sampling System

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Line No.	Description
739	Water Sampling System-Control
740	Water Sampling System-Motor
741	Water Sampling System-Station Piping
742	Water Supply System
743	Water Supply System-Control
744	Water Supply System-Motor
745	Water Supply System-Station Piping
746	Water Supply System-Tank
747	Water Supply System-Well
748	Water Treatment System
749	Water Treatment System-Control
750	Water Treatment System-Motor
751	Water Treatment System-Station Piping
752	Water Treatment System-Tank
753	Waterfront Improvements
754	Weather Package
755	Weir
756	Welding System, Central
757	Well
758	Well Disposal
759	Well Environmental
760	Well Gas
761	Well Water
762	Well Water-Motor
763	Well Water-Station Piping
764	Well Water-Well
765	Wind Turbine Blading
766	Wind Turbine Gearbox
767	Wind Turbine Generator
768	Wind Turbine Structure
769	Wind-Generation
770	X-Brace
771	Yard Improvements

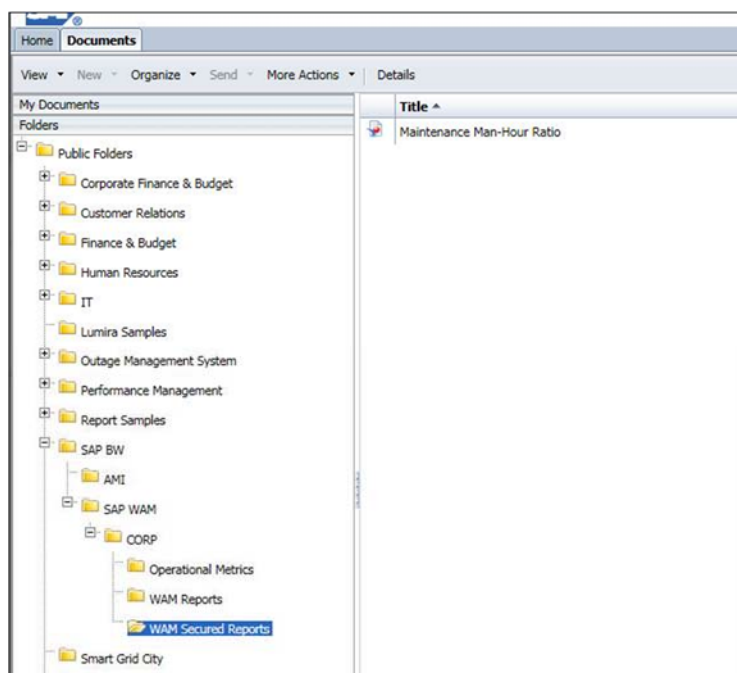
Maintenance Man-Hour Ratio

Data for the Test Year (October 1, 2019 through September 30, 2020) came from the SAP work management database implemented in February 2017 requiring this Business Objects Report.

The man-hours were provided for the following work order types:

- **Breakdown Maintenance (BD):** Maintenance that is performed when the equipment has failed and no longer performs the function that it was designed for.
- **Corrective Maintenance (CM):** Maintenance that is performed when the equipment is functional but has observed signs of improper operations. Equipment has something wrong, but is still operating.
- **Preventive (Periodic) Maintenance (PM):** Maintenance that is scheduled and performed on a regular basis, and is either time or condition directed.

1. Run the Business Objects Report
 - a. Public Folders
 - b. SAP BW
 - c. SAP WAM
 - d. Corp
 - e. WAM Secured Reports
 - i. Maintenance Man-Hour Ratio **(Secured Report)**



2. Run the report with the following parameters (this example captures the test year)

Prompts

Available prompt variants:

Prompts Summary

✓	Maintenance plant =Cunningham Plant;=Harrington Plant;=Jones Plant;=Maddox Plant;=Nichols Plant;=Plant X;=Quay County Plant;=Tolk Plant;=Riverview Plant;=Moore Co. Plant;=Tucumcari SC
✓	WBS: Company code =Southwest Public Serv Co
✓	Order Type =Breakdown Maintenanc;=Corrective Maintenanc;=Preventative Mainten
✓	Calendar Year/Month =APR 2018;=MAY 2018;=JUN 2018;=JUL 2018;=AUG 2018;=SEP 2018;=OCT 2018;=NOV 2018;=DEC 2018;=JAN 2019;=FEB 2019;=MAR 2019
✓	Attendance or Absence
✓	CADO Plant
✓	Enter values for Company code:

3. Copy the report to Excel Spreadsheet
 - a. Run a pivot table on the data

Drag fields between areas below:

Report Filter	Column Labels
WBS Hier. Lvl 2	Order type
WBS Hier. Lvl 4	
WBS Hier. Lvl 4 - Key	

Row Labels	Σ Values
Plant	Sum of Actual Time
Funct Loc Hier.Lvl 3 - Key	

WBS Hier. Lvl 2	(Multiple Items)					
WBS Hier. Lvl 4	(All)					
WBS Hier. Lvl 4 - Key	(All)					
Sum of Actual Time	Order type					
Plant	Funct Loc Hier.Lvl 3 - Key	Breakdown Maintenanc	Corrective Maintenanc	Preventative Mainten	Grand Total	
Carlsbad Plant	ES-CHC-000		29		29	
Carlsbad Plant Total			29		29	
Cunningham Plant	ES-CHC-000	44	1338	1233.5	2615.5	
	ES-CHC-001	49	1243.5	8722.95	10015.45	
	ES-CHC-002	370	2443.25	9022.8	11836.05	
	ES-CHC-003	28	247.5	280.5	556	
	ES-CHC-004	912.25	836	295	2043.25	
Cunningham Plant Total		1403.25	6108.25	19554.75	27066.25	
Harrington Plant	ES-HAR-000	511	2578	5639	8728	
	ES-HAR-001	1096	5570	6861.75	13527.75	
	ES-HAR-002	1362.75	5542	5692.7	12597.45	
	ES-HAR-003	1493.5	5497.75	6636	13627.25	
Harrington Plant Total		4463.25	19187.75	24829.45	48480.45	
Jones Plant	ES-JON-000	564	5212.2	2072.6	7848.8	

We need to filter WBS Hier. Lvl 2 to remove the hours from overhauls. Uncheck those events that have an OM in the title (ex. CHC 2 OM: Cunningham 2)

WBS Hier. Lvl 2	WBS Hier. Lvl 5 - Key
CHC 2 OM: Cunningham 2	A.0001545.987.003.001.18

Please validate this with the financial analyst in making sure this is true with overhauls.

- Total the hours for the Plant as per the type of generation (coal, gas, CT) for breakdown, corrective and preventive maintenance.

Schedule H-11.3 O&M Cost per MWh

The source for generation values in Schedule H-11.3 is the Southwestern Public Service Company (“SPS”) NERC GADS database (Meridium). The source for cost values is from spreadsheets prepared by Corporate Finance using Xcel Energy corporate databases.

Steam Power Generation (FERC Accounts)

Coal Units: Harrington & Tolk.

Gas Units: Cunningham 1&2, Jones 1&2, Maddox 1, Moore Co, Nichols, Plant X.

Operations costs included FERC Accounts 500, 502, 503, 504, 505, 506, 507, 508, and 509. Maintenance costs included FERC Accounts 510, 511, 512, 513, 514, and 515.

Other Power Generation (FERC Accounts)

Combustion Turbines (CT): Carlsbad, Cunningham 3&4, Jones 3&4, Maddox 2&3, Quay, Riverview.

Other: Hale Wind, Celanese, Tucumcari

Operations costs included FERC Accounts 546, 548, 549, 550 and 550.1.

Maintenance costs included FERC Accounts 551, 552, 553, 554 and 554.1.

The general ledger data was used to sort expenses by plants and service organizations. An allocation process was used to allocate service organization expenses to each plant. The data was then summarized for each plant and the data was entered into the Schedule spreadsheet.

Generation data for the past five years and the Test Year (12 months ended September 2020) were entered into Schedule H-11.3.

Using the generation and cost data in Schedule H-11.3, “Cost per MWh” was calculated for Operations, Maintenance, and Total O&M. The information is sorted by Plant and grouped by fuel type (coal, gas, CT, and other).