

BP-14 Initial Rate Proposal

Transmission Segmentation Study Documentation

November 2012

BP-14-E-BPA-06A



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Table 1
BPA Investment Summary, through Sept. 30, 2011
(\$000)

A	B	C	D	E
<u>Category</u>	<u>Total</u>	<u>Funded in Advance</u>	<u>PFIA Stations</u>	<u>PFIA Lines</u>
2 TRANSMISSION PLANT IN SERVICE	5,275,816	108,045	56,757	51,288
3 MASTER LEASE	212,614			
4 LEASED ASSETS	102,161			
5 CAPITAL LEASES	43,498			
6 EMERGENCY MINIMUM STOCK	11,226			
7 INTANGIBLES	9,559			
8 FEE LAND IN SERVICE	125,572		<u>Land Stations</u>	<u>Land Lines</u>
9 DEPRECIABLE FEE LAND	43,308	107	24,053	101,519
10 GENERAL PLANT IN SERVICE	862,991	42,982	415	42,478
11 Corporate Plant in Service	81,680			<u>Land GPlant</u>
12 PS Plant in Service	11,645			308
13 Accounting	3,011			
14 Grand Total	6,783,080	151,134		
15 <u>Transmission Plant</u>		<u>Segmented</u>	<u>Unsegmented</u>	<u>Ancillary Service</u>
16 Substations	2,783,807			
17 Metering Locations	14,013			
18 Total Stations	2,797,821	2,784,843	12,978	
19 Total Lines	2,552,687	2,538,219	14,467	
20 Other Transmission Plant	94,942		94,942	
21 Emergency minimum stock	11,226		11,226	
22 Intangibles	9,559	9,559		
23 Communication Equipment (397)	2,740		2,444	296
24 Control Equipment (353.1, 391.2, 391.3)	77,855			77,855
25 TPLNT (inc Leases) less PFIA	5,546,829	5,332,621	136,058	78,151
26 <u>General Plant</u>				
27 Communication Equipment (397)	431,517		372,508	59,009
28 Control Equipment (353.1, 391.2, 391.3)	30,991			30,991
29 Other General Plant	357,500		357,500	
30 GPLNT less PFIA	820,008	0	730,008	90,000
31 <u>Subtotals</u>				
32 Communication Equipment (397)	434,256		374,952	59,304
33 Control Equipment (353.1, 391.2, 391.3)	108,846			108,846
34 Ancillary Services				168,151

Graphed Summary

Segmented Lines & Subs	5,332,621	78.6%
Funded in Advance	151,134	2.2%
Trans. Plant (Unseg)	136,058	2.0%
Ancillary Service	168,151	2.5%
Gen. Plant (Unseg)	730,008	10.8%
Land	168,773	2.5%
Non-Transmission Plant	96,336	1.4%

Total **6,783,080**

(0.00) Validation Check

(0.00) Validation Check

0.00 Validation Check

BPA Plant Investment
as of September 30, 2011 \$6,783,080
(\$000)

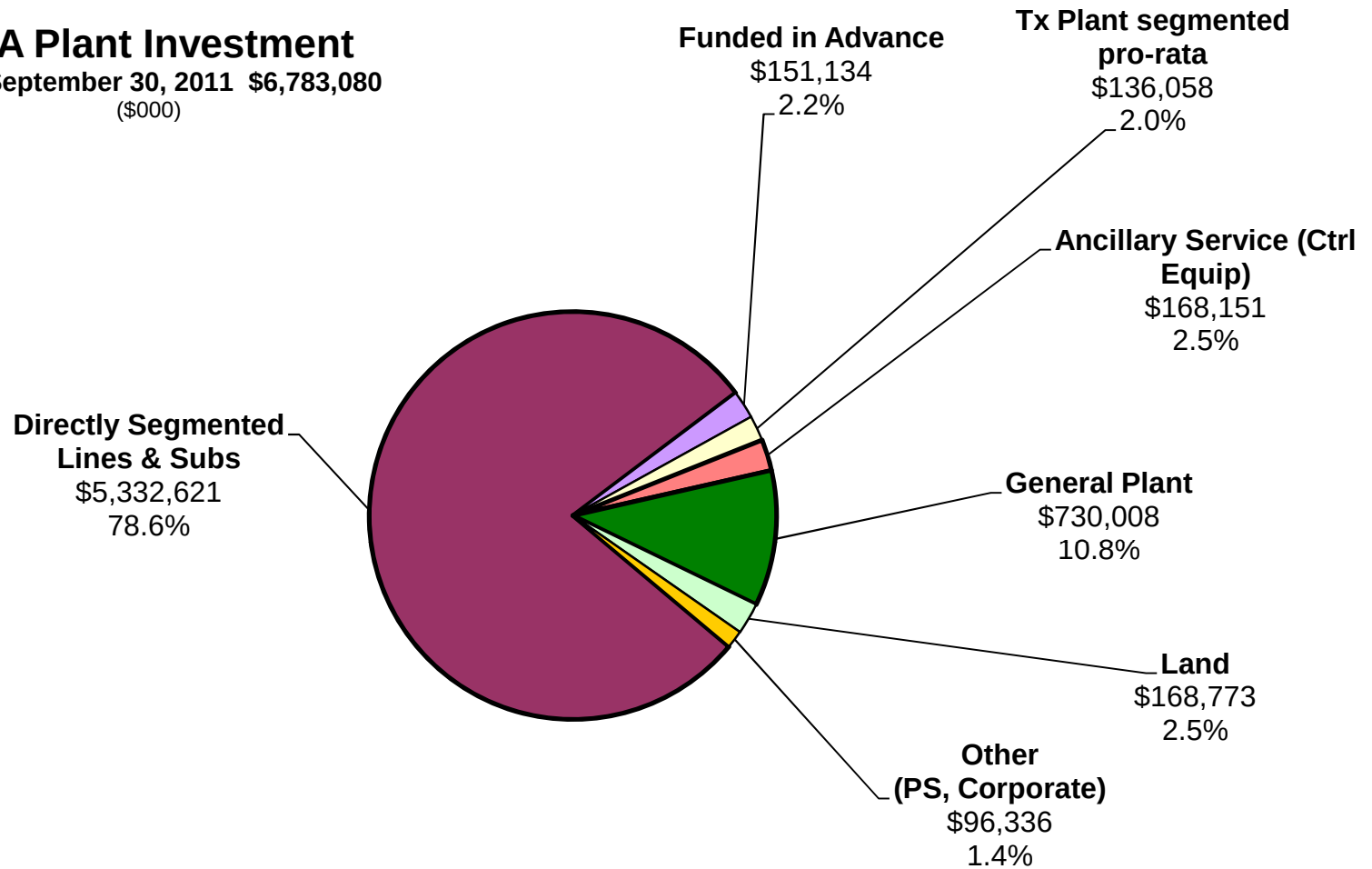


Table 2
BPA Segmented Gross Investment, through Sept. 30, 2011
(\$000)

A	B	C	D	E	F	G	H	I
	<u>Generation</u>	<u>Network</u>	<u>Southern</u>	<u>Eastern</u>	<u>Utility</u>	<u>DSI Delivery</u>	<u>Segmented</u>	<u>Un-</u>
	<u>Integration</u>		<u>Intertie</u>	<u>Intertie</u>	<u>Delivery</u>		<u>Total</u>	<u>segmented</u>
1 Substations	54,121	2,080,171	571,415	24,132	28,994	26,010	2,784,843	12,978
2 Other Facilities								94,942
3 Emergency Stock								11,226
4 Unseg.Allocation	2,316	88,998	24,447	1,032	1,240	1,113	119,146	(119,146)
5 Subtotal	56,436	2,169,168	595,863	25,165	30,234	27,123	2,903,989	-
6 FERC Account Summary								
7 Account 352							287,518	
8 Account 353							2,604,617	
9 Account 354							859	
10 Account 355							755	
11 Account 356							2,263	
12 Account 358							9	
13 Account 359							174	
14 Account 390							84	
15 Account 391							484	
16 Leased (no account)							7,226	
17 Substation total							2,903,989	
18 Lines	18,471	2,227,661	197,768	94,271	47	-	2,538,219	14,467
19 Unseg.Allocation	105	12,697	1,127	537	0	-	14,467	(14,467)
20 Subtotal	18,577	2,240,359	198,895	94,809	48	-	2,552,687	-
21 FERC Account Summary								
22 Account 352							1,377	
23 Account 353							18,147	
24 Account 354							981,753	
25 Account 355							272,970	
26 Account 356							1,077,255	
27 Account 358							21,807	
28 Account 359							124,847	
29 Leased (no account)							54,531	
30 Line total							2,552,687	
31 Intangibles (Account 303)		4,014	5,545				9,559	
32 Lines & Subs Total	75,013	4,413,541	800,302	119,973	30,282	27,123	5,466,235	-
33 % of Segmented Total	1.4%	80.7%	14.6%	2.2%	0.6%	0.5%	100.0%	
34 Depreciable Land (account 350)								
35 Substation	-	27	-	-	-	-	27	
36 Lines	61	42,238	-	-	-	-	42,298	180
37 Other Facilities								388
38 Unseg.Allocation	8	458	83	12	3	3	568	(568)
39 Subtotal	69	42,723	83	12	3	3	42,893	-
40 Other							Ancillary	General
41 Control							Services	Plant
42 Communications							108,846	
43 General Plant							59,304	374,952
44 Depr. Land (GPlant)								357,500
45 Subtotal							168,151	308
46 FERC Account Summary								
47 Account 352								44
48 Account 353							77,855	212
49 Account 356								(2)
50 Account 389								308
51 Account 390								183,353
52 Account 391							30,991	1,663
53 Account 392								67,945
54 Account 393								589
55 Account 394								8,800
56 Account 395								29,936
57 Account 396								30,848
58 Account 397							59,304	374,952
59 Account 398								34,110
60 Other total							168,151	732,760
61 Segmented Investment	75,082	4,456,263	800,386	119,986	30,285	27,126	168,151	732,760

Table 3
Future Plant in Service Summary
(\$000)

A	B	C	D	E	F	G	H
	<u>Generation</u>	<u>Network</u>	<u>Southern</u>	<u>Eastern</u>	<u>Utility</u>	<u>DSI Delivery</u>	<u>Total</u>
	<u>Integration</u>		<u>Intertie</u>	<u>Intertie</u>	<u>Delivery</u>		
1 Stations							
2 FY 2012	-	146,685	10,162	-	254	-	157,101
3 FY 2013	-	247,325	11,691	-	378	-	259,394
4 FY 2014	-	302,586	35,598	-	301	-	338,485
5 FY 2015	-	281,515	17,139	-	495	-	299,150
6 Lines							
7 FY 2012	-	91,475	1,017	-	-	-	92,492
8 FY 2013	-	115,545	2,636	-	-	-	118,181
9 FY 2014	-	149,081	6,035	-	-	-	155,117
10 FY 2015	-	282,129	1,181	-	-	-	283,309
11 Lines & Subs							
12 FY 2012	-	238,160	11,180	-	254	-	249,593
13 FY 2013	-	362,871	14,327	-	378	-	377,576
14 FY 2014	-	451,668	41,633	-	301	-	493,602
15 FY 2015	-	563,644	18,320	-	495	-	582,459
16 Other							
	<u>Ancillary</u>	<u>General</u>					
	<u>Services</u>	<u>Plant</u>					
17 FY 2012	1,720	70,711					
18 FY 2013	13,671	112,617					
19 FY 2014	28,661	139,420					
20 FY 2015	19,766	184,143					

Table 4
BPA Historical Operations and Maintenance (O&M), Fiscal years 2009 through 2011
(\$000)

A	B <u>Generation Integration</u>	C <u>Network</u>	D <u>Southern Intertie</u>	E <u>Eastern Intertie</u>	F <u>Utility Delivery</u>	G <u>DSI Delivery</u>	H <u>Total</u>	I <u>Un- segmented</u>
1 Stations	2,416	80,654	16,336	489	2,106	1,174	103,175	18,047
2 Unseg.Allocation	423	14,107	2,857	86	368	205	18,047	(18,047)
3 Subtotal	2,838	94,761	19,194	574	2,475	1,380	121,222	-
4 Lines	201	23,788	1,362	237	4	-	25,591	968
5 Unseg.Allocation	8	900	52	9	0	-	968	(968)
6 Subtotal	209	24,687	1,413	246	4	-	26,560	-
7 Lines & Subs	3,047	119,449	20,607	820	2,479	1,380	147,782	-
8 % of Segmented Total	2.1%	80.8%	13.9%	0.6%	1.7%	0.9%	100.0%	
9 Other							<u>Ancillary Services</u>	<u>General Plant</u>
							42,382	42,069

	A	B	C	D
1	Appendix A			
2	BP14 Rate Case Initial Proposal Segmentation Details			
3				
4	<u>Generation Integration Facilities</u>			
5	Transmission Lines	Investment (\$)	O&M (\$)	Multi %
6	ANDERSON RANCH-MOUNTAIN HOME NO 1	4,449,861	30,850	
7	BIG CLIFF-DETROIT PH NO 1	181,340	6,338	
8	BIG CLIFF-DETROIT PH NO 2	181,340	2,830	
9	BLACK CANYON-EMMETT NO 1	307,180	18,752	
10	BONNEVILLE PH 1-NORTH BONNEVILLE NO 1	85,578	84	
11	BONNEVILLE PH 1-NORTH BONNEVILLE NO 2	86,775	0	
12	BONNEVILLE PH 2-NORTH BONNEVILLE NO 3	98,469	1,337	
13	BONNEVILLE PH 2-NORTH BONNEVILLE NO 4	1,214,223	579	
14	CHANDLER TAP TO GRANDVIEW-REDMOUNTAIN NO 1	118,517	4,831	
15	CHIEF JOSEPH PH-CHIEF JOSEPH NO 1	68,924	2,482	
16	CHIEF JOSEPH PH-CHIEF JOSEPH NO 2	89,376	3,179	
17	CHIEF JOSEPH PH-CHIEF JOSEPH NO 3	82,433	1,397	
18	CHIEF JOSEPH PH-CHIEF JOSEPH NO 4	78,094	584	
19	CHIEF JOSEPH PH-CHIEF JOSEPH NO 5	475,202	462	
20	CHIEF JOSEPH PH-CHIEF JOSEPH NO 6	439,561	2,600	
21	COLUMBIA GENERATING STATION-ASHE NO 1	330,593	578	
22	COLUMBIA GENERATING STATION-ASHE NO 2	76,075	1,637	
23	COUGAR-THURSTON NO 1	113,609	6,164	5%
24	DETROIT PH-DETROIT NO 1	42,262	15,628	
25	DETROIT PH-DETROIT NO 2	42,262	4,272	
26	DETROIT-SANTIAM NO 1	1,866,656	16,892	
27	DWORSHAK PH-DWORSHAK NO 1	1,225,822	4,198	
28	DWORSHAK PH-DWORSHAK NO 1 ML CLEARWATER CO	76,474	0	
29	GREEN PETER-LEBANON NO 1	357,224	11,869	35%
30	HILLS CREEK-LOOKOUT POINT NO 1	272,720	23,328	19%
31	ICE HARBOR-FRANKLIN NO 3	1,465,528	4,973	
32	JOHN DAY PH-JOHN DAY NO 1	485,647	1,842	
33	JOHN DAY PH-JOHN DAY NO 2	485,647	1,561	
34	JOHN DAY PH-JOHN DAY NO 3	485,647	1,344	
35	JOHN DAY PH-JOHN DAY NO 4	485,642	1,469	
36	LIBBY PH-LIBBY NO 1	278,220	3,420	
37	LIBBY PH-LIBBY NO 2	265,855	7,569	
38	LITTLE GOOSE PH-LITTLE GOOSE NO 1	290,246	1,530	
39	LOOKOUT POINT PH-LOOKOUT POINT NO 1	10,253	557	
40	LOWER GRANITE PH-LOWER GRANITE NO 1	433,123	3,324	
41	LOWER MONUMENTAL PH-LOWER MONUMENTAL NO 1	236,523	1,289	
42	MENARY PH-MENARY 3&4 NO 3	135,173	693	
43	MENARY PH-MENARY NO 1	76,683	1,156	
44	MENARY PH-MENARY NO 2	74,361	859	
45	MENARY PH-MENARY NO 5	101,717	756	
46	MENARY PH-MENARY NO 6	112,595	1,668	
47	THE DALLES PH-BIG EDDY NO 1	118,075	1,395	
48	THE DALLES PH-BIG EDDY NO 2	121,407	1,011	
49	THE DALLES PH-BIG EDDY NO 3	107,356	565	
50	THE DALLES PH-BIG EDDY NO 4	107,351	1,621	
51	THE DALLES PH-BIG EDDY NO 5	116,296	1,031	
52	THE DALLES PH-BIG EDDY NO 6	117,572	561	
53	Subtotal Lines	18,471,487	201,062	
54				
55	Substations	Investment (\$)	O&M (\$)	Multi %
56	ALBENI FALLS SUBSTATION	365,644	24,889	25%
57	ASHE SUBSTATION	3,271,411	145,498	10%
58	BIG EDDY SUBSTATION	3,417,064	101,091	5%
59	BONNEVILLE POWERHOUSE #1	164,462	23,077	
60	CHIEF JOSEPH POWERHOUSE	102,351	8,157	
61	CHIEF JOSEPH SUBSTATION	7,819,165	475,155	25%
62	COLUMBIA GENERATING STATION SUBSTATION (ENERGY NORTHWEST)	31,314	0	
63	COUGAR SUBSTATION	255,378	34,107	
64	DETROIT SUBSTATION	1,051,706	131,767	
65	DWORSHAK POWERHOUSE	190,858	21,456	
66	DWORSHAK SUBSTATION	4,502,639	73,567	18%
67	FOSTER SUBSTATION	42,312	16,140	
68	FRANKLIN SUBSTATION	1,789,491	158,647	20%
69	GRAND COULEE 115 KV SWITCHYARD	75,243	6,100	
70	GRAND COULEE 230 KV SWITCHYARD	82,186	2,839	
71	GRAND COULEE 500 KV SWITCHYARD	413,567	41,160	
72	GREEN PETER SUBSTATION	257,380	19,206	
73	HANFORD NO.2 CONSTRUCTION SUBSTATION	75,446	11,052	
74	HILLS CREEK SUBSTATION	374,351	31,977	
75	HUNGRY HORSE POWERHOUSE	333,182	17,310	
76	HUNGRY HORSE SWITCHYARD	89,046	0	
77	ICE HARBOR POWERHOUSE	118,156	10,517	
78	JOHN DAY POWERHOUSE	276,948	1,233	

	A	B	C	D
1	Appendix A			
2	BP14 Rate Case Initial Proposal Segmentation Details			
79	JOHN DAY SUBSTATION	9,963,420	229,969	29%
80	LIBBY POWERHOUSE	112,091	8,399	
81	LIBBY SUBSTATION(BPA)	1,212,752	85,969	18%
82	LITTLE GOOSE SUBSTATION	2,256,657	60,531	20%
83	LOOKOUT POINT POWERHOUSE	28,750	1,157	
84	LOOKOUT POINT SUBSTATION	409,720	23,243	25%
85	LOWER GRANITE POWERHOUSE	73,128	5,327	
86	LOWER GRANITE SUBSTATION	1,725,321	96,775	25%
87	LOWER MONUMENTAL POWERHOUSE	158,234	4,350	
88	LOWER MONUMENTAL SUBSTATION	2,988,953	34,323	12%
89	MCNARY POWERHOUSE	245,608	12,900	
90	MCNARY SUBSTATION	4,171,947	122,089	12%
91	MINIDOKA POWERHOUSE	147,898	17,653	
92	MOUNTAIN HOME SUBSTATION(BPA)	174,369	66,749	
93	NORTH BONNEVILLE SUBSTATION	3,263,318	176,673	37%
94	PALISADES POWERHOUSE	620,267	16,752	
95	ROZA POWERHOUSE	23,450	0	
96	SACAJAWEA SUBSTATION	184,801	1,304	1%
97	SANTIAM SUBSTATION	743,791	55,625	5%
98	THE DALLES POWERHOUSE	53,426	8,012	
99	WPPSS NO. 2 POWERHOUSE	463,746	33,033	
100	Subtotal Substations	54,120,946	2,415,779	
101	Total Generation Integration	72,592,433	2,616,841	
102				
103	<u>Integrated Network Facilities</u>			
104	Transmission Lines	Investment (\$)	O&M (\$)	Multi %
105	ABERDEEN TAP TO SATSOP PARK-COSMOPOLIS NO 1	1,597,354	4,647	
106	ADDY-COLVILLE NO 1	42,251	9,694	
107	ADDY-CUSICK NO 1	4,803,088	40,643	
108	ALBANY-BURNT WOODS NO 1	1,108,548	22,177	
109	ALBANY-BURNT WOODS NO 1 ML BENTON CO	2,789,686	0	
110	ALBANY-BURNT WOODS NO 1 ML LINCOLN CO	94,000	0	
111	ALBANY-BURNT WOODS NO 1 ML LINN CO	250,687	0	
112	ALBANY-EUGENE NO 1	4,632,722	72,049	
113	ALBANY-LEBANON NO 1	1,079,111	40,389	
114	ALBENI FALLS-PINE STREET NO 1	267,790	4,861	
115	ALBENI FALLS-SAND CREEK NO 1	11,108,982	94,482	
116	ALCOA-FELIDA NO 1	36,090	2,886	
117	ALLSTON-CLATSOP NO 1	2,812,090	109,687	
118	ALLSTON-DRISCOLL NO 1	1,410,837	15,290	
119	ALLSTON-DRISCOLL NO 2	1,910,110	167,207	
120	ALVEY 500/230 KV TIE LINE NO 1	347,565	2,253	
121	ALVEY-FAIRVIEW NO 1	9,229,828	305,925	
122	ALVEY-LANE NO 1	1,378,137	19,497	
123	ALVEY-MARTIN CREEK NO 1	203,899	8,475	
124	ANACONDA-SILVER BOW NO 1	587,205	60,958	
125	Antelope-Fossil Transmission Lines & Substation	16,642,388	0	
126	ASHE TAP TO MIDWAY-HEW NO 2	83,431	3,722	
127	ASHE-HANFORD NO 1	5,509,091	19,422	
128	ASHE-MARION NO 2	84,314,874	335,052	
129	ASHE-SLATT NO 1	25,160,330	55,892	
130	ASHE-WHITE BLUFFS NO 1	1,215,881	6,717	
131	BADGER CANYON-REATA NO 1	352,148	3,450	
132	BADGER CANYON-RICHLAND NO 1	624,512	4,968	
133	BALD MOUNTAIN TAP TO UNDERWOOD TAP	119,704	0	
134	BANDON SUBSTATION TRANSFORMER TIE 1	8,680	14,949	
135	BANDON-ROGUE NO 1	1,661,593	89,130	
136	BELFAIR TAP TO SHELTON-KITSAPNO 2	1,313	0	
137	BELL-ADDY NO 1	4,921,138	42,197	
138	BELL-BOUNDARY NO 1	5,679,015	108,904	
139	BELL-BOUNDARY NO 3	28,992,326	117,341	
140	BELLINGHAM-CUSTER NO 1	149,475	6,555	
141	BELL-LANCASTER NO 1	2,437,602	21,575	
142	BELL-TRENTWOOD NO 1	708,819	39,215	
143	BELL-TRENTWOOD NO 2	586,821	26,387	
144	BELL-USK NO 1	1,831,208	49,591	
145	BENTON-451B NO 1	240,845	10,110	
146	BENTON-DOE B3-S4 NO 1	162,956	6,239	
147	BENTON-FRANKLIN NO 1	7,184,421	13,451	
148	BENTON-FRANKLIN NO 2	606,950	13,465	
149	BENTON-OTHELLO NO 1	318,881	7,189	
150	BENTON-SOOTENNEY NO 1	895,866	72,253	
151	BERTELSEN-WILLOW CREEK NO 1	85,814	3,448	
152	BETTAS ROAD-COLUMBIA NO 1	778,303	5,567	
153	BIG EDDY-CHEMAWA NO 1	3,468,845	145,064	
154	BIG EDDY-CHENOWETH NO 1	859,686	25,963	

	A	B	C	D
1	Appendix A			
2	BP14 Rate Case Initial Proposal Segmentation Details			
155	BIG EDDY-CHENOWETH NO 2	1,352,900	9,973	
156	BIG EDDY-DE MOSS NO 1	869,878	80,376	
157	BIG EDDY-MCLOUGHLIN 1&2 NO 1	4,965,983	42,717	
158	BIG EDDY-MCLOUGHLIN 1&2 NO 2	1,764,192	14,405	
159	BIG EDDY-OSTRANDER NO 1	10,121,976	115,721	
160	BIG EDDY-REDMOND NO 1	5,455,435	169,661	
161	BIG EDDY-SPRING CREEK NO 1	3,032,156	51,282	
162	BIG EDDY-THE DALLES FISHWAY HYDRO PLANT	2,955,999	0	
163	BIG EDDY-TROUTDALE NO 1	7,742,186	331,725	
164	BLUE RIVER TAP TO COUGAR-THURSTON NO 1	19,656	23,906	
165	BOARDMAN TAP TO MCNARY-JONES CANYON NO 1	61,136	933	
166	BOARDMAN-IONE NO 1	676,914	23,238	
167	Boardman-Ione Transmission Line	221,420	0	
168	BOARDMAN-TOWER ROAD NO 1	645,689	7,200	
169	BONNEVILLE PH 1-HOOD RIVER NO 1	2,699,274	148,373	
170	BONNEVILLE PH 1-NORTH CAMAS NO 1	453,835	18,914	
171	BONNEVILLE PH1-ALCOA 1&2	7,905	0	
172	BONNEVILLE PH1-ALCOA NO 1 & 2 (BONN PH1-ALCOA NO 2 SECTION	923,197	24,221	
173	BONNEVILLE PH1-ALCOA NO 1 & 2 (BONN PH1-ALCOA NO 1 SECTION)	77,542	31,283	
174	BOTHELL-SAMMAMISH (PSE) (FOR ACCOUNTING PURPOSES ONLY)	575,499	0	
175	BOTHELL-SNO-KING NO 1	415,901	0	
176	BOTHELL-SNO-KING NO 2	693,960	4,225	
177	BOUNDARY-NELWAY 1	263,960	2,495	
178	BOUNDARY-WANETA 1	117,328	1,162	
179	BOYER-TILLAMOOK NO 1	2,203,792	91,065	
180	BRASADA-HARNEY NO 1	2,944,374	150,722	
181	BRASADA-HARNEY NO 1 ML DESCHUTES CO	314,072	0	
182	BRASADA-HARNEY NO 1 ML HARNEY CO	82,671	0	
183	BRONX-SAND CREEK NO 1	2,558,215	7,157	
184	BUCKLEY-GRIZZLY NO 1	7,514,539	21,240	43%
185	BUCKLEY-MARION NO 1	20,363,344	35,827	50%
186	BURBANK TAP TO FRANKLIN-WALLAWALLA NO 1	2,665	421	
187	CALPINE-MCNARY NO 1	428,117	8,441	
188	CANAL-SECOND LIFT NO 1	25,231	2,120	
189	CANAL-SECOND LIFT NO 2	19,804	155	
190	CANBY TAP TO MALIN-HILLTOP NO1	2,263,227	6,181	
191	CARDWELL-COWLITZ NO 1	558,082	10,489	
192	CARLTON-MCMINNVILLE NO 1	463,769	1,822	
193	CARLTON-SHERWOOD NO 1	575,080	15,838	
194	CARLTON-TILLAMOOK NO 1	5,982,868	119,082	
195	CARSON TAP TO UNDERWOOD TAP	267,329	1,226	
196	CASCADE LOCKS TAP TO BONNEVILLE PH 1-HOOD RIVER NO 1	7,085	1,450	
197	CASCADE STEEL TAP TO CARLTON SHERWOOD NO 1	1,527,599	8,647	
198	CENTRALIA TAP TO CHEHALIS-COVINGTON NO 1	1,162	2,865	
199	CENTRALIA-B STREET NO 1	45,304	1,717	
200	CHALIS-CENTRALIA NO 1 ML LEWIS CO	4,232,257	0	
201	CHEHALIS-CENTRALIA NO 1	880,849	20,246	
202	CHEHALIS-CENTRALIA NO 2	1,187,238	18,063	
203	CHEHALIS-CENTRALIA NO 2 ML LEWIS CO	5,910,934	0	
204	CHEHALIS-COVINGTON NO 1	2,235,062	255,860	
205	CHEHALIS-MAYFIELD NO 1	1,443,731	47,853	
206	CHEHALIS-OLYMPIA NO 1	2,386,366	47,441	
207	CHEHALIS-RAYMOND NO 1	15,249,137	87,081	
208	CHEMAWA-SALEM ALUMINA NO 1	291,827	8,194	
209	CHEMAWA-SALEM NO 1	4,761,205	8,843	
210	CHEMAWA-SALEM NO 2	302,519	4,620	
211	CHENEY TAP TO SILVER LAKE-SUNSET	368,940	31,746	
212	CHENOWETH-GOLDENDALE NO 1	1,293,048	70,821	
213	CHENOWETH-HARVEY NO 1	81,982	653	
214	CHENOWETH-HARVEY NO 2	81,980	445	
215	CHIEF JOSEPH-SICKLER NO 1 ML DOUGLAS CO	737,581	0	
216	CHIEF JOSEPH-EAST OMAK NO 1	5,148,496	97,871	
217	CHIEF JOSEPH-MONROE NO 1	21,617,238	344,262	
218	CHIEF JOSEPH-MONROE NO 1 ML SNOHOMISH CO	1,954,071	0	
219	CHIEF JOSEPH-SICKLER NO 1	4,620,138	172,768	
220	CHIEF JOSEPH-SNOHOMISH NO 3	7,939,299	284,165	
221	CHIEF JOSEPH-SNOHOMISH NO 4	9,240,347	118,252	
222	CHRISTMAS VALLEY TAP TO BRASADA-HARNEY NO 1	1,640	0	
223	CHRISTOPHER TAP TO TACOMA-COVINGTON-4 (RETIRED)	61,063	0	
224	COLUMBIA FALLS-CONKELLEY NO 1	72,714	12,810	
225	COLUMBIA FALLS-FLATHEAD NO 1	756,209	6,822	
226	COLUMBIA FALLS-KALISPELL NO 1	397,575	24,130	
227	COLUMBIA FALLS-TREGO NO 1	1,491,891	141,629	
228	COLUMBIA-ELLENSBURG NO 1	1,962,585	27,488	
229	COLUMBIA-ELLENSBURG NO 1 ML KITTITAS CO	4,463,967	0	
230	COLUMBIA-GRAND COULEE NO 1	1,417,945	155,523	
231	COLUMBIA-GRAND COULEE NO 3	1,722,738	57,619	
232	COLUMBIA-VALHALLA NO 1	207,161	13,952	

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233	COLUMBIA-VALHALLA NO 2	273,624	13,706	
234	COLVILLE-BOUNDARY NO 1	4,878,645	26,439	
235	COLVILLE-REPUBLIC NO 1	3,326,000	85,945	
236	CONKELLY TAP TO HUNGRY HORSE-COLUMBIA FALLS NO 1 (OBSOLETE)	2,743	0	
237	CONNELL TAP TO BENTON-SOOTENEY NO 1	190,017	7,280	
238	CORVALLIS TAP TO MILLER CREEKNO 4-HAMILTON HEIGHTS	12,012	0	
239	COSMOPOLIS-ABERDEEN NO 1	6,928	593	
240	COTTAGE GROVE-DRAIN NO 1 (RETIRED)	312,761	0	
241	COUGAR-THURSTON NO 1	1,983,343	107,606	95%
242	COVINGTON SUBSTATION TIE NO 2	17,720	1,542	
243	COVINGTON-BETTAS ROAD NO 1	1,728,030	86,639	
244	COVINGTON-CRESTON SCL NO 1	398,640	21,548	
245	COVINGTON-DUWAMISH NO 1	752,610	19,106	
246	COVINGTON-MAPLE VALLEY NO 2	1,129,206	44,237	
247	COVINGTON-WHITE RIVER NO 1	216,902	25,774	
248	COWLITZ TAP TO CHEHALIS-COVINGTON NO 1	521,859	29,836	
249	COYOTE SPRINGS-SLATT NO 1	2,352,112	16,158	88%
250	CRESTON-BELL NO 1	3,105,752	71,772	
251	CRESWELL TAP TO ALVEY-MARTIN CREEK NO 1	92,141	0	
252	CUSTER-INGLEDOW NO 1	7,036,672	9,151	
253	CUSTER-INGLEDOW NO 2	1,768,518	14,810	
254	CUSTER-INTALCO NO 1	497,585	5,933	
255	CUSTER-INTALCO NO 2	531,003	5,342	
256	DAVIS CREEK TAP TO MILE-HI-ALTURAS	208,342	8,628	
257	DE MOSS-FOSSIL NO 1	1,760,436	133,893	
258	DEXTER TAP TO LOOKOUT POINT-ALVEY NO 1	27,559	1,494	
259	DISCOVERY-CHENOWETH NO 1	8,490	1,156	
260	DOE B3-S4-WHITE BLUFFS NO 1	557,420	10,997	
261	DORENA TAP TO ALVEY-MARTIN CREEK NO. 1	188,421	12,460	
262	DRAIN-ELKTON NO 1	843	0	
263	DRAIN-OAKLAND NO 1	843	0	
264	DRISCOLL TAP TO ALLSTON-CLATSOP NO 1	1,683,694	0	
265	DRISCOLL-NASELLE NO 1	3,813,174	101,487	
266	DRISCOLL-WAUNA NO 1	28,035	0	
267	DRUMMOND - MACKS INN NO 1	8,954	135,226	
268	DUTCH CANYON TAP TO ST JOHNS-ST HELENS NO 1	139	384	
269	DWORSHAK PH-OROFINO NO 1	205,764	4,025	
270	DWORSHAK-TAFT NO 1	22,069,794	128,618	
271	EAST ELLENSBURG TAP TO COLUMBIA-ELLENSBURG NO 1	356,552	1,782	
272	EAST OMAK TAP TO GRAND COULEE-FOSTER CREEK NO 1	5,127,081	14,072	
273	EAST OMAK-OROVILLE NO 1	13,684	18,786	
274	EAST OMAK-TONASKET NO 2	13,691	11,352	
275	ECHO LAKE - MAPLE VALLEY NO 1 & 2 (EL-MV NO	5,628,393	19,333	
276	ECHO LAKE - MAPLE VALLEY NO 1 & 2 (EL-MV NO 1 SECTION)	5,594,552	75,317	
277	ECHO LAKE-MONROE NO 1	4,938,957	44,223	
278	ELBE TAP TO ALDER-LAGRANDE NO1,2	1,867,188	12,898	
279	ELLENSBURG-MOXEE NO 1	4,540,019	90,557	
280	ELTOPIA TAP TO SMITH CANYON-REDD	415,578	4,536	
281	EUGENE-ALDERWOOD NO 1	3,922,908	22,181	
282	EUGENE-ALVEY NO 2	852,187	30,969	
283	EUGENE-BERTELSEN NO 1	58,755	9,234	
284	EUGENE-LANE NO 1	94,409	20,073	
285	FAIRMOUNT-PORT ANGELES NO 1	1,860,410	53,975	
286	FAIRMOUNT-PORT ANGELES NO 2	1,512,981	89,375	
287	FAIRVIEW-BANDON NO 1	1,682,809	70,817	
288	FAIRVIEW-BANDON NO 2	2,199,172	29,433	
289	FAIRVIEW-ROGUE NO 1	5,605,524	100,751	
290	FIDALGO-LOPEZ ISLAND NO 3	1,929,609	8,597	
291	FIDALGO-LOPEZ ISLAND NO 4	4,794,685	0	
292	FIDALGO-LOPEZ ISLAND NO 5	13,833,755	3,343	
293	FILBERT TAP TO FOREST GROVE-MCMINNVILLE NO 1	290,501	535	
294	FLATHEAD-HOT SPRINGS NO 1	3,257,393	49,138	
295	FORDS PRAIRIE TAP TO CHEHALIS-CENTRALIA NO 2	23,009	334	
296	FOREST GROVE-MCMINNVILLE NO 1	1,040,618	31,591	
297	FOSTER TAP TO GREEN PETER-LEBANON NO 1	254,650	12,955	
298	FOUR LAKES TAP TO SUNSET-EASTCOLFAX	238,110	15,170	
299	FRANKLIN-BADGER CANYON NO 1	1,733,993	8,430	
300	FRANKLIN-BADGER CANYON NO 2	2,122,288	18,619	
301	FRANKLIN-HEDGES NO 1	202,476	5,340	
302	FRANKLIN-RUBY STREET NO 1	1,347,949	7,364	
303	FRANKLIN-WALLA WALLA NO 1	6,092,479	29,352	
304	FRANZ HOLMES TAP TO COWLITZ-LAGRANDE NO 1,2 (OBSOLETE)	276,241	2,925	
305	FROMAN TAP TO ALBANY-LEBANON NO 1	592,229	3,901	
306	GARRISON-ANACONDA NO 1	3,653,013	120,474	
307	GARRISON-TAFT NO 1	86,218,545	220,582	
308	GARRISON-TAFT NO 2	86,218,545	89,558	
309	GLADE TAP TO BENTON-FRANKLIN NO 2	716	0	
310	GOSHEN-DRUMMOND NO 1	16,291,283	143,111	

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311	GRAND COULEE-BELL NO 3	2,031,772	405,467	
312	GRAND COULEE-BELL NO 5	4,113,496	43,722	
313	GRAND COULEE-BELL NO 6	104,017,288	106,480	
314	GRAND COULEE-CHIEF JOSEPH NO 1	1,467,437	39,883	
315	GRAND COULEE-CHIEF JOSEPH NO 2	1,536,480	51,106	
316	GRAND COULEE-CHIEF JOSEPH NO 3	4,100,432	30,925	
317	GRAND COULEE-CRESTON NO 1	1,442,822	50,711	
318	GRAND COULEE-FOSTER CREEK NO 1	784,647	24,965	
319	GRAND COULEE-HANFORD NO 1	12,282,324	70,026	
320	GRAND COULEE-OKANOGAN NO 2	954,810	114,245	
321	GRAND COULEE-SCHULTZ NO 1	31,696,784	314,582	
322	GRAND COULEE-SCHULTZ NO 2	30,625,010	57,698	
323	GRAND COULEE-WESTSIDE(AVA) NO 1	2,238,122	99,491	
324	GRANDE ROND-BOYER NO 1	1,260,158	29,282	
325	GRANDVIEW-RED MOUNTAIN NO 1	1,508,056	27,867	
326	GREEN BLUFF TAP TO BELL-TRENTWOOD NO 2	233,117	8,148	
327	GREEN PETER-LEBANON NO 1	666,893	22,159	65%
328	GRIZZLY-SUMMER LAKE NO 1	14,204,156	46,939	43%
329	GRIZZLY-SUMMER LAKE NO 1 (CROOK CO)	108,228	0	43%
330	GRIZZLY-SUMMER LAKE NO 1 (DESCHUTES CO)	127,891	0	43%
331	GRIZZLY-SUMMER LAKE NO 1 (LAKE CO)	255,806	0	43%
332	Grouse Creek-Tecoma Transmission Lines & Substation	2,236,179	0	
333	HANFORD NO 2 CONSTRUCTION TAP TO BENTON - 451B NO 1	87,163	2,183	
334	HANFORD-WAUTOMA NO 1	3,063,563	8,934	
335	HANFORD-WAUTOMA NO 1, ML BENTON CO	235,126	0	
336	HANFORD-WAUTOMA NO 2	2,601,240	15,579	
337	HANFORD-WAUTOMA NO 2, ML BENTON CO	249,603	0	
338	HARRISBURG TAP TO ALBANY-EUGENE NO 1	15,159	826	
339	HARVALUM-BIG EDDY NO 1	2,717,106	28,710	
340	HAT ROCK TAP TO MCNARY-WALLULA	117,346	1,987	
341	HATTON TAP TO CONNELL TAP	904,801	15,050	
342	HATWAI-DWORSHAK NO 1	6,688,529	189,212	
343	HAWKINS-ALVEY NO 1	146,791	12,034	
344	HEBO TAP TO BOYER-TILLAMOOK NO 1	1,872	321	
345	HEDGES TAP TO FRANKLIN-BADGERCANYON NO 2	197,981	1,435	
346	HEYBURN-ADELAIDE NO 1	3,956,550	12,793	
347	HIDEAWAY TAP TO HAWKINS-ALVEY NO 1	505	537	
348	HILLS CREEK-LOOKOUT POINT NO 1	1,139,277	97,450	81%
349	HILLTOP-WARNER NO 1	4,824,687	15,756	
350	HOLCOMB TAP TO CHEHALIS-RAYMOND NO 1	343,953	1,988	
351	HOLCOMB-NASELLE NO 1	1,818,658	49,604	
352	HOOD RIVER-THE DALLES NO 1	3,502,756	15,131	
353	HORN BUTTE TAP TO TOWER ROAD-ALKALI NO 1	339,950	2,302	
354	HORSE HEAVEN-HARVALUM NO 1	750,152	32,515	
355	HORSE RANCH TAP TO MONROE-SNOHOMISH NO 1&2	79,180	3,767	
356	HOT SPRINGS 500-230KV TIE NO 1	37,012	312	
357	HOT SPRINGS-RATTLESNAKE NO 1	6,281,515	140,440	
358	HUNGRY HORSE-COLUMBIA FALLS NO 1	4,979,851	3,481	
359	HUNGRY HORSE-CONKELLEY NO 1	981,905	6,409	
360	ICE HARBOR-FRANKLIN NO 1	587,534	8,138	
361	ICE HARBOR-FRANKLIN NO 2	570,551	3,943	
362	JACKSON TAP TO CANAL-SECOND LIFT NO. 1(SOLD)	47,234	206	
363	JACKSON TAP TO CANAL-SECOND LIFT NO. 2	54,669	0	
364	JIM CREEK SERVICE NO 1	26,551	1,683	
365	JOHN DAY-BIG EDDY NO 2	3,159,752	10,067	
366	JOHN DAY-BIG EDDY NO 2 ML SHERMAN CO	152,151	0	
367	JOHN DAY-BIG EDDY NO 2 ML WASCO CO	152,153	0	
368	JOHN DAY-MARION NO 1	17,485,758	197,331	
369	JONES CANYON-SANTIAM NO 1	5,427,621	130,231	
370	JUNCTION CITY TAP TO ALBANY-EUGENE NO 1	2,182	1,490	
371	KALISPELL-KERR NO 1	1,248,352	131,554	
372	KEELER-ALLSTON NO 1	5,141,827	68,460	
373	KEELER-FOREST GROVE NO 1	3,236,964	236,063	
374	KEELER-FOREST GROVE NO 2	534,447	15,446	
375	KEELER-OREGON CITY NO 2	1,349,264	35,510	
376	KEELER-PENNWALT NO 1(DEENERGIZED)	256,113	0	
377	KELLER TAP TO GRAND COULEE-OKANOGAN NO 2	4,871,621	44,859	
378	KENNEWICK TAP TO FRANKLIN-BADGER CANYON NO 2	23,991	2,809	
379	KERR SUB TIE TO US ITS MP CO.115KV	77,150	1,345	
380	KITSAP-BANGOR NO 1	637,130	17,906	
381	KITSAP-STATION X NO 1	262,419	0	
382	KLONDIKE SCHOOLHOUSE-JOHN DAY NO 1	9,759,776	13,363	
383	LA PINE-CHILOQUIN NO 1	2,216,239	74,105	
384	LA PINE-FORT ROCK NO 1	6,683,185	39,999	
385	LA PINE-FORT ROCK NO 1 ML DESCHUTES CO	78,561	0	
386	LANCASTER-NOXON NO 1	3,204,668	174,549	
387	LANE-WENDSON NO 1	3,404,292	111,033	
388	LANE-WENDSON NO 2	2,282,762	289,545	

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389	LANGLOIS TAP TO BANDON-ROGUE NO 1	26,783	2,246	
390	LATHAM TAP TO ALVEY-MARTIN CREEK NO 1	1,045,461	4,996	
391	LEXINGTON-DELAMETER NO 1	145,989	0	
392	LEXINGTON-LONGVIEW NO 1	684,658	20,525	
393	LEXINGTON-LONGVIEW NO 2	438,091	79,033	
394	LIBBY-BONNERS FERRY NO 1	25,386,503	125,523	
395	LIBBY-CONKELLEY NO 1	9,627,742	164,782	
396	LITTLE GOOSE-CENTRAL FERRY NO 2	7,632,734	23,693	
397	LITTLE GOOSE-LOWER GRANITE NO 1 ML GARFIELD	77,581	0	
398	LITTLE GOOSE-LOWER GRANITE NO 2 ML COLUMBIA	158,860	0	
399	LITTLE GOOSE-LOWER GRANITE NO 2 ML GARFIELD	360,082	0	
400	LITTLE GOOSE-LOWER GRANITE NO 2 ML WHITMAN	10,591	0	
401	LITTLE GOOSE-LOWER GRANITE NO1	5,783,221	24,262	
402	LONGVIEW-ALLSTON NO 1	333,525	63,302	
403	LONGVIEW-ALLSTON NO 2	69,437	56,883	
404	LONGVIEW-ALLSTON NO 3	1,078,732	24,115	
405	LONGVIEW-ALLSTON NO 4	658,953	118,589	
406	LONGVIEW-BAKERS CORNER (COWLITZ PUD LINE)	32,177	494	
407	LONGVIEW-CHEHALIS NO 1 & 3 (LONGVIEW-CHEHALI	1,453,934	42,868	
408	LONGVIEW-CHEHALIS NO 1 & 3 (LONGVIEW-CHEHALIS NO 1 SECTION)	1,491,566	130,113	
409	LONGVIEW-COWLITZ NO 1	524,096	6,807	
410	LOOKOUT POINT-ALVEY NO 1	789,546	33,329	
411	LOOKOUT POINT-ALVEY NO 2	677,745	34,728	
412	LOPEZ ISLAND-DECATUR NO 1	773,159	0	
413	LOST RIVER-SPAR CANYON NO 1	5,518,064	53,715	
414	LOWER GRANITE-HATWAI NO 1	8,301,795	60,874	
415	LOWER MONUMENTAL-ASHE NO 1	11,094,886	108,053	
416	LOWER MONUMENTAL-HANFORD NO 1	5,699,847	47,026	
417	LOWER MONUMENTAL-HANFORD NO 1 ML BENTON	103,974	0	
418	LOWER MONUMENTAL-HANFORD NO 1 ML FRANKLIN	639,837	0	
419	LOWER MONUMENTAL-HANFORD NO 1 ML GRANT	47,988	0	
420	LOWER MONUMENTAL-HANFORD NO 1 ML WALLA WALLA	7,998	0	
421	LOWER MONUMENTAL-LITTLE GOOSE NO 1 ML COLUMB	28,937	0	
422	LOWER MONUMENTAL-LITTLE GOOSE NO 1 ML WAWA	231,498	0	
423	LOWER MONUMENTAL-LITTLE GOOSE NO 1 ML WHITMA	101,281	0	
424	LOWER MONUMENTAL-LITTLE GOOSE NO 1	2,940,825	41,632	
425	LOWER MONUMENTAL-LITTLE GOOSE NO 2	3,347,265	13,947	
426	LOWER MONUMENTAL-MCNARY NO 1	8,898,963	55,000	
427	LOWER MONUMENTAL-MCNARY NO 1 ML UMATILLA CO	359,186	0	
428	LOWER MONUMENTAL-MCNARY NO 1 ML WALLA WALLA	729,257	0	
429	LYNCH CREEK TAP TO COWLITZ-LAGRANDE NO 1,2 (OBSOLETE)	1,046,977	12,498	
430	MACKS INN-MADISON NO 1	3,715,691	62,666	
431	MALIN-HILLTOP NO 1	6,426,964	129,780	
432	MAPLE VALLEY-DUWAMISH NO 1	73,304	3,575	
433	MAPLE VALLEY-MASSACHUSETTS NO 1	23,317	866	
434	MARION-ALVEY NO 1	4,328,755	54,579	50%
435	MARION-LANE NO 1	8,003,594	86,789	
436	MARION-SANTIAM NO 1	619,487	12,416	
437	MARTIN CREEK TAP TO ALVEY-FAIRVIEW NO 1	11,094	1,897	
438	MARTIN CREEK-DRAIN NO 1	432,052	24,685	
439	Maupin-Antelope Transmission Lines & Substation	894,251	0	
440	MAUPIN-TYGH VALLEY NO 1	340,202	14,632	
441	MCCULLOUGH TAP TO COWLITZ-LAGRANDE NO 1,2	459,238	15,548	
442	MCNARY-BADGER CANYON NO 1	2,651,225	16,565	
443	MCNARY-BADGER CANYON NO 1 ML BENTON CO, WA	5,106,907	0	
444	MCNARY-BOARDMAN NO 1	777,180	9,238	
445	MCNARY-FRANKLIN NO 2	1,639,651	32,047	
446	MCNARY-HORSE HEAVEN NO 1	727,683	9,131	
447	MCNARY-JONES CANYON NO 1	1,657,299	33,244	
448	MCNARY-LONGHORN NO 1 (PLANNED)	2,077,323	43,984	
449	MCNARY-ROSS NO 1	10,349,816	196,722	
450	MCNARY-ROUNDUP NO 1	1,396,046	50,156	
451	MCNARY-SANTIAM NO 1(OBS/RET, SEE NOTES)	6,139,225	17,918	
452	MIDWAY-BENTON NO 1	3,115,724	22,341	
453	MIDWAY-BENTON NO 2	1,944,282	18,931	
454	MIDWAY-GRANDVIEW NO 1	1,254,400	53,146	
455	MIDWAY-MOXEE NO 1	1,317,266	43,202	
456	MIDWAY-POTHOLES NO 1	765,882	19,645	
457	MIDWAY-ROCKY FORD NO 1	1,620,448	20,284	
458	MIDWAY-VANTAGE NO 1	9,942,651	6,476	
459	MILTON TAP TO WALLA WALLA-PENDLETON NO 1	2,236,170	6,307	
460	MINIDOKA PH-UNITY NO 1	2,124,793	57,055	
461	MINIDOKA SUB TAP TO DUFN43	1,099,937	1,194	
462	MIST TAP TO ALLSTON-DRISCOLL NO 2	9,302	1,208	
463	MONROE-CUSTER NO 1	19,774,961	216,961	
464	MONROE-CUSTER NO 1 ML SKAGIT CO	365,246	0	
465	MONROE-CUSTER NO 1 ML SNOHOMISH CO	474,819	0	
466	MONROE-CUSTER NO 1 ML WHATCOME CO	377,421	0	

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467	MONROE-CUSTER NO 2	8,704,892	74,991	
468	MONROE-NOVELTY HILL NO.1	1,736,161	0	
469	MONROE-SNOHOMISH NO 1 & 2 (MONROE-SNOHOMISH NO 1 SECTION)	222,064	7,241	
470	MONROE-SNOHOMISH NO 1 & 2 (MONROE-SNOHOMISH NO 2 SECTION)	164,312	3,943	
471	MOSSYROCK-CHEHALIS NO 1	1,070,923	39,627	
472	MOUNTAIN AVENUE TAP TO (PACIFICORP) ASHLAND-OAK KNOLL	699,916	4,511	
473	MOXEE-ROZA NO 1	23,832	59,646	
474	MT. VERNON TAP TO LOOKOUT POINT-ALVEY NO 2	68,601	6,448	
475	MURRAY-CUSTER NO 1	3,031,420	83,045	
476	NAPAVINE-ALLSTON NO 1	7,972,626	31,764	
477	NAPAVINE-ALLSTON NO 1 ML COLUMBIA CO	35,702	0	
478	NAPAVINE-ALLSTON NO 1 ML COWLITZ CO	267,769	0	
479	NAPAVINE-ALLSTON NO 1 ML WASHINGTON CO	291,571	0	
480	NASELLE-TARLETT NO 1	2,501,357	61,347	
481	NASELLE-TARLETT NO 2	3,761,540	42,516	
482	NESPELEM TAP TO GRAND COULEE-OKANOGAN	579	0	
483	NINE MILE TAP TO FRANKLIN-WALLA WALLA NO 1	40,788	489	
484	NORTH BONNEVILLE-MIDWAY NO 1	7,668,485	286,387	
485	NORTH BONNEVILLE-ROSS NO 1	689,873	27,811	
486	NORTH BONNEVILLE-ROSS NO 2	1,766,327	29,026	
487	NORTH BONNEVILLE-TROUTDALE NO1	2,888,783	55,526	
488	NORTH BONNEVILLE-TROUTDALE NO2	2,881,488	23,206	
489	NORTH CAMAS-OAK PARK NO 1	121,764	7,617	
490	NORTH CAMAS-SIFTON NO 1	190,685	2,130	
491	NORTH MOUNTAIN-SNOHOMISH NO 1	149,405	0	
492	NOXON-HOT SPRINGS NO 1	3,019,998	87,778	
493	NOXON-LIBBY NO 1	2,845,525	345,994	
494	OLYMPIA 500-230 TIE LINE 1 ML THURSTON CO	992,129	0	
495	OLYMPIA-GRAND COULEE NO 1	15,842,152	270,860	
496	OLYMPIA-HITSAP NO 3 ML THURSTON CO(SEE NOTES)	168,820	0	
497	OLYMPIA-KITSAP NO 3 (SEE NOTES)	3,080,675	36,043	
498	OLYMPIA-KITSAP NO 3 ML MASON CO(SEE NOTES)	889,265	0	
499	OLYMPIA-SATSOP NO 2	2,461,745	19,558	
500	OLYMPIA-SATSOP NO 3	4,021,560	8,226	
501	OLYMPIA-SHELTON NO 1	176,884	0	
502	OLYMPIA-SHELTON NO 2	1,510,148	34,462	
503	OLYMPIA-SHELTON NO 3	2,055,537	21,440	
504	OLYMPIA-SHELTON NO 3 ML MASON CO	1,170,314	0	
505	OLYMPIA-SHELTON NO 4	1,943,388	17,286	
506	OLYMPIA-SHELTON NO 4 ML MASON CO	1,170,314	0	
507	OLYMPIA-SHELTON NO 5	292,541	48,528	
508	OLYMPIA-SHELTON NO 5 ML MASON CO	5,257,537	0	
509	OLYMPIA-SHELTON NO 5 ML THURSTON CO	2,750,273	0	
510	OLYMPIA-SOUTH ELMA NO 1	931,011	31,337	
511	OLYMPIA-SOUTH TACOMA NO 1	10,472,082	85,340	
512	OREGON CITY-CANBY PGE NO 1	355,446	10,008	
513	OREGON CITY-CHEMAWA NO 1	35,890	0	
514	OREGON CITY-CHEMAWA NO 2	1,817,433	42,420	
515	OSTRANDER-MCLOUGHLIN NO 1	1,415,214	2,015	
516	OSTRANDER-PEARL NO 1	2,001,443	52,642	
517	OSTRANDER-TROUTDALE NO 1	5,746,220	75,747	
518	PALISADES-CATTLE CREEK NO 1	2,371,809	73,922	
519	PALISADES-GOSHEN NO 1 ML BONNEVILLE CO	13,454,351	0	
520	PALISADES-SWAN VALLEY NO 1	1,276,790	48,716	
521	PARKER TAP TO EUGENE-ALDERWOOD NO 1	9,970	245	
522	PAUL D. JOHNSON TAP TO ROSS-VANCOUVER SHIPYARD NO. 1	180,120	0	
523	PAUL-ALLSTON NO 2	9,278,477	193,032	
524	PAUL-NAPAVINE NO 1	1,699,815	11,407	
525	PAUL-OLYMPIA NO 1	3,514,676	34,431	
526	PAUL-SATSOP NO 1	30,139,100	48,475	
527	PEARL-KEELER NO 1	2,245,471	27,668	
528	PEARL-MARION NO 1	4,504,320	328,977	
529	PEARL-MARION NO 1 ML CLACKAMAS CO	295,852	0	
530	PEARL-MARION NO 1 ML MARION CO	262,359	0	
531	PEARL-SHERWOOD NO. 1 & 2 (PEARL-SHERWOOD NO 1 SECTION)	751,728	1,328	
532	PEARL-SHERWOOD NO. 1 & 2 (PEARL-SHERWOOD NO 2 SECTION)	751,728	3,848	
533	PILOT BUTTE-LA PINE NO 1	1,474,753	49,880	
534	PINE HOLLOW TAP TO THE DALLES-TYGH VALLEY NO 1	15,441	0	
535	POMEROY TAP TO TUCANNON RIVER-NORTH LEWISTON NO 1	29,550	1,600	
536	PONDEROSA-PILOT BUTTE NO 1	4,369,374	42,475	
537	PORT ANGELES-SAPPHO NO 1	2,259,579	98,489	
538	POTHOLES-GRAND COULEE NO 1	1,377,363	23,058	
539	POTLATCH TAP TO SHELTON-FAIRMOUNT NO 1	6,824	2,194	
540	POWERLINE TAPS TO DIAMOND HILL-COBURG	81,433	0	
541	PRIEST RIVER TAP TO ALBENI FALLS-SAND CREEK NO 1	297,117	12,587	
542	PROSSER TAP TO GRANDVIEW-RED MOUNTAIN NO 1	719,927	5,732	
543	RADAR TAP (USBR) TO SCOOTENEYTAP	65,675	3,077	
544	RAINBOW VALLEY TAP TO LANE-WENDSON NO 1	152,368	7,131	

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545	RALSTON TAP TO EAST COLFAX-LIND	532,216	9,130	
546	RATTLESNAKE-GARRISON NO 1	2,276,188	119,253	
547	RAVER TAP TO SCHULTZ-ECHO LAKE NO 1	922,569	4,212	
548	RAVER-COVINGTON NO 1	2,290,045	56,227	
549	RAVER-COVINGTON NO 2	1,295,592	36,933	
550	RAVER-ECHO LAKE NO 1	2,190,125	17,730	
551	RAVER-PAUL NO 1	9,939,897	182,238	
552	RAVER-PAUL NO 1 ML KING CO	182,765	0	
553	RAVER-PAUL NO 1 ML LEWIS CO	86,573	0	
554	RAVER-PAUL NO 1 ML PIERCE CO	461,723	0	
555	RAVER-PAUL NO 1 ML THURSTON CO	230,862	0	
556	RAYMOND-COSMOPOLIS NO 1	10,746,393	24,470	
557	RAYMOND-HENKLE ST. NO 1	85,625	2,209	
558	RAYMOND-WILLAPA RIVER NO 1	378,475	21,185	
559	RED MOUNTAIN-RICHLAND NO 1	367,404	13,067	
560	RED MOUNTAIN-WHITE BLUFFS NO 1	1,184,011	17,504	
561	REDMOND-BRASADA NO 1	195,642	25,389	
562	REDMOND-PILOT BUTTE NO 1	254,774	23,741	
563	REEDSPORT-FAIRVIEW NO 1	5,328,720	118,524	
564	RESTON-FAIRVIEW NO 2	1,743,020	55,619	
565	RIVERGATE-KEELER NO 1 & 2 (RIVERGATE-KEELER NO 1 SECTION)	512,780	12,889	
566	RIVERLAND-MIDWAY NO 1	21,591	6,140	
567	ROCK CREEK-JOHN DAY NO 1	6,107,644	18,136	
568	ROCK CREEK-JOHN DAY NO 1 ML KLINKITAT CO	120,333	0	
569	ROCK CREEK-JOHN DAY NO 1 ML SHERMAN CO	31,987	0	
570	ROCKY FORD-GRAND COULEE NO 1	1,627,129	23,663	
571	ROCKY REACH-COLUMBIA NO 1	1,231,827	21,441	
572	ROCKY REACH-MAPLE VALLEY NO 1	14,602,251	273,369	
573	ROE'S CORNER TAP TO HEYBURN-ADELAIDE NO 1	1,116,651	9,336	
574	ROGUE-GOLD BEACH NO 1	2,572,328	7,023	
575	ROGUE-GOLD BEACH NO 2	4,805,288	76,231	
576	ROSS-ALCOA NO 2 & 4 (ROSS-ALCOA NO 2 SECTION)	136,560	4,438	
577	ROSS-ALCOA NO 3	1,252,366	1,181	
578	ROSS-CARBORUNDUM NO 1	104,720	7,242	
579	ROSS-LEXINGTON NO 1	2,623,214	70,555	
580	ROSS-RIVERGATE NO 1	558,459	120,525	
581	ROSS-ST JOHNS NO 1	1,623,579	105,361	
582	ROSS-VANCOUVER SHIPYARD NO 1	361,029	6,248	
583	ROUNDUP-LAGRANDE NO 1	2,179,507	129,561	
584	SACAJAWEA TAP TO ICE HARBOR-FRANKLIN NO 2	217,457	3,622	
585	SACAJAWEA TAP TO LOWER MONUMENTAL-MCNARY NO 1	2,108,920	3,383	
586	SACAJAWEA-SUN HARBOR NO 1	31,818	4,387	
587	SACHEEN-ALBENI FALLS NO 1	1,130,388	30,856	
588	SALEM-ALBANY NO 1	1,279,628	53,928	
589	SALEM-ALBANY NO 2	1,234,113	96,441	
590	SALEM-GRAND RONDE NO 1	5,045,914	36,654	
591	SAMMAMISH-MAPLE VALLEY NO 1	1,801,866	0	
592	SAND CREEK-BONNERS FERRY NO 1 & 2(SAND CREEK-BF NO 2 SECTI	6,647,798	10,689	
593	SAND CREEK-BONNERS FERRY NO. 1 & 2 (SAND CREEK-BF NO 1 SECT	6,647,804	28,649	
594	SANTIAM SUBSTATION TRANSF BAYTAP TO SANTIAM-ALBANY NO 1	2,323,017	259	
595	SANTIAM-ALBANY NO 1	984,717	22,987	
596	SANTIAM-ALVEY 1 & 2, S-A 1 SECT	3,314,769	57,947	
597	SANTIAM-ALVEY 1 & 2, S-A 2 SECT	2,987,966	71,670	
598	SANTIAM-BETHEL NO 1	12,617,338	6,822	
599	SANTIAM-CHEMAWA NO 1	1,744,710	33,181	
600	SANTIAM-LYONS UHV XFMR 1	126,000	0	
601	SANTIAM-TOLEDO NO 1	4,407,070	121,318	
602	SANTIAM-TOLEDO NO 1 ML BENTON CO	3,933,508	0	
603	SATSOP PARK-COSMOPOLIS NO 1	1,105,918	22,212	
604	SATSOP-ABERDEEN NO 2	5,398,614	36,510	
605	SATSOP-ABERDEEN NO 3	2,402,175	19,302	
606	SATSOP-SHELTON NO 1 ML MASON CO	5,247,630	0	
607	SATSOP-SHELTON NO 1 ML THURSTON CO	2,750,305	0	
608	SCHRAG TAP TO RUFF-WARDEN	701,079	10,740	
609	SCHULTZ-ECHO LAKE NO 1	65,603,696	66,654	
610	SCHULTZ-RAVER NO 1	27,130,703	58,679	
611	SCHULTZ-RAVER NO 3	10,273,142	44,265	
612	SCHULTZ-RAVER NO 4	11,338,901	59,285	
613	SCHULTZ-WAUTOMA NO 1	95,466,530	128,646	
614	SCOOTENEY TAP TO MIDWAY-BENTON NO 1	337,805	24,486	
615	SHELTON-FAIRMOUNT NO 1	4,060,392	94,669	
616	SHELTON-FAIRMOUNT NO 2	3,118,258	59,648	
617	SHELTON-FAIRMOUNT NO 3	3,179,420	37,819	
618	SHELTON-FAIRMOUNT NO 4	2,926,202	30,978	
619	SHELTON-KITSAP NO 2	9,376,899	32,936	
620	SHELTON-KITSAP NO 3 (MASON CO)	222,316	0	
621	SHELTON-KITSAP NO 4	4,003,145	17,535	
622	SHELTON-SOUTH BREMERTON NO 1	9,302,539	10,700	

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623	SHULTZ-RAVER NO 4 ML KING CO	190,718	0	
624	SHULTZ-RAVER NO 4 ML KITTITAS CO	515,646	0	
625	SICKLER-SCHULTZ NO 1	11,145,747	68,936	
626	SICKLER-SCHULTZ NO 1 ML CHELAN COUNTY	144,841	0	
627	SICKLER-SCHULTZ NO 1 ML DOUGLAS COUNTY	214,363	0	
628	SICKLER-SCHULTZ NO 1 ML KITTITAS COUNTY	220,155	0	
629	SIFTON TAP TO N. BONN-ROSS 2	222,180	345	
630	SIFTON TAP TO NORTH BONNEVILLE-ROSS NO 1	222,180	5,380	
631	SIFTON-FISHERS ROAD NO 1	55,704	687	
632	SIFTON-LACAMAS NO 1	354	3,505	
633	SIFTON-ROSS NO 1	226,144	3,581	
634	SLATT-BUCKLEY NO 1	20,801,435	159,738	
635	SLATT-JOHN DAY NO 1	4,797,158	27,913	93%
636	SNOHOMISH-BEVERLY PARK NO 3	328,629	4,926	
637	SNOHOMISH-BEVERLY PARK NO 4	379,809	3,097	
638	SNOHOMISH-BOTHELL NO 1	451,614	17,212	
639	SNOHOMISH-BOTHELL NO 2	148,752	1,630	
640	SNOHOMISH-EVERETT	417,659	4,608	
641	SNOHOMISH-MURRAY NO 1	339,549	28,846	
642	SNOHOMISH-PUD NO 9	2,362,466	4,196	
643	SNOHOMISH-PUD NO. 8	2,377,231	3,341	
644	SNO-KING TAP TO ECHO LAKE-MONROE NO 1	4,503,601	7,696	
645	SNO-KING-MAPLE VALLEY NO 1	1,845,243	3,180	
646	SNO-KING-MAPLE VALLEY NO. 2	651,009	899	
647	SOUTH ELMA-SATSOP PARK NO 1	201,759	11,792	
648	SOUTH FORK TAP TO FOREST GROVE-TILLAMOOK NO 1	9,989	0	
649	SOUTH TACOMA-COWLITZ NO 1	839,010	23,024	
650	SOUTH TACOMA-WHITE RIVER NO 1	339,175	22,725	
651	SPAR CANYON - ROUND VALLEY	1,264,435	21,745	
652	SPEARFISH TAP TO CHENOWETH-GOLDENDALE NO 1	113,617	11,956	
653	SPIRIT TAP TO COLVILLE-BOUNDARY NO 1	416,256	9,213	
654	SPRING CREEK-WINE COUNTRY NO 1	3,721,747	32,367	
655	ST HELENS-ALLSTON NO 1	5,100,760	41,199	
656	ST JOHNS TAP TO KEELER-OREGONCITY NO 2	317,198	1,497	
657	ST JOHNS-KEELER NO 2	353,767	49,265	
658	ST JOHNS-ST HELENS NO 1	1,495,409	73,058	
659	SWAN VALLEY-GOSHEN NO 1	4,291,759	55,026	
660	SWAN VALLEY-TETON NO 1	2,751,164	47,072	
661	SWAN VALLEY-TETON NO 2	5,097,650	37,012	
662	TACOMA-COVINGTON NO 2	1,907,335	27,612	
663	TACOMA-COVINGTON NO 3	1,240,294	40,034	
664	TACOMA-COVINGTON NO 4	1,240,294	23,327	
665	TACOMA-RAVER NO 1&2 (NO 1 SECTION)	4,567,297	74,968	
666	TACOMA-RAVER NO 1&2 (NO 2 SECTION)	2,332,326	15,606	
667	TAFT-BELL NO 1	84,270,516	237,329	
668	TAFT-HOT SPRINGS NO 1	10,315,472	246,561	
669	TAHKENITCH-GARDINER NO 1	181,891	3,190	
670	TAHKENITCH-REEDSPORT NO 1	389,270	34,195	
671	TANNER TAP TO SNOQUALMIE-LAKE TRADITION NO 1	6,243,005	4,373	
672	TARGHEE TAP TO SWAN VALLEY-TETON NO 1	939,693	22,403	
673	TARGHEE-DRUMMOND NO 1	79,148	117,823	
674	Targhee-Mack's Inn Transmission Lines & Substations	510,921	0	
675	THATCHER JUNCTION TAP TO FOREST GROVE-TILLAMOOK NO 1	1,689	0	
676	THE DALLES-DISCOVERY NO 1	92,190	3,734	
677	THURSTON-MCKENZIE NO 1	2,435,522	9,926	
678	TILLAMOOK-TRASK RIVER NO 1	358,808	0	
679	TIMBER TAP	29,500	0	
680	TIMBER TAP TO FOREST GROVE-TILLAMOOK NO 1	459,512	64,394	
681	TOLEDO-WENDSON NO 1	5,931,612	168,097	
682	TOWER ROAD-ALKALI NO 1	430,310	9,458	
683	TRENTWOOD-VALLEY WAY NO 1	249,698	18,850	
684	TROJAN-ALLSTON NO 1	1,595,833	4,654	
685	TROJAN-ALLSTON NO 2	1,584,040	2,678	
686	TUCANNON RIVER-NORTH LEWISTON NO 1	11,818,725	61,795	
687	UNDERWOOD TAP TO BONN-NC 1 & BONN-A 2, BONN-ALCOA TO STR 1	657,771	756	
688	UNDERWOOD TAP TO BONN-NC 1 & BONN-A 2, BONN-NC 1 TO UNDRW S	613,629	53,441	
689	UNITY-HEYBURN NO 1	528,636	19,850	
690	UNITY-WEST BURLEY NO 1	1,921,580	40,305	
691	USK-BOUNDARY NO 1	2,080,111	38,572	
692	VANTAGE-COLUMBIA NO 1	952,851	34,309	
693	VANTAGE-SCHULTZ NO 1	5,194,512	21,611	
694	VANTAGE-SCHULTZ NO 1 ML KITTAS	42,824	0	
695	VERA TAP TO TRENTWOOD-VALLEY WAY NO 1	221,647	12,196	
696	VICTOR TAP TO TARGHEE TAP	96,996	0	
697	WAGNER LAKE TAP TO WILBUR TAP	441,963	42,965	
698	WALLA WALLA-FREEWATER	1,331,932	7,114	
699	WALLA WALLA-PENDLETON NO 1	4,066,405	62,484	
700	WALLA WALLA-TUCANNON RIVER NO. 1	2,087,969	46,412	

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701	WALNUT CITY TAP TO FOREST-GROVE-MCMINNVILLE NO 1	202,305	14,338	
702	WAUTOMA-OSTRANDER NO 1	31,681,375	194,212	
703	WAUTOMA-OSTRANDER NO 1 ML CLACKAMAS CO	285,971	0	
704	WAUTOMA-OSTRANDER NO 1 ML MULTNOMAH CO	428,957	0	
705	WAUTOMA-OSTRANDER NO 1 ML SKAMANIA CO	584,941	0	
706	WAUTOMA-ROCK CREEK NO 1	8,615,764	67,678	
707	WAUTOMA-ROCK CREEK NO 1 ML BENTON CO	94,912	0	
708	WAUTOMA-ROCK CREEK NO 1 ML KLINKITAT CO	322,701	0	
709	WAUTOMA-ROCK CREEK NO 1 ML YAKIMA CO	531,508	0	
710	WENDSON-TAHKENITCH NO 1	3,471,053	52,999	
711	WENDSON-TAHKENITCH NO 2	2,343,750	38,096	
712	WEST BURLEY-HEYBURN NO. 1 (FOREIGN OWNED, SEE NOTES)	21,218	15,619	
713	WESTSIDE (AVA)-BELL NO 1	207,587	3,339	
714	WHITE BLUFFS-451B NO 1	1,025,555	2,850	
715	WHITE BLUFFS-RICHLAND NO 1	1,688,885	27,484	
716	WILLOW CREEK-HAWKINS #1	477,053	3,708	
717	WINE COUNTRY-MIDWAY NO 1	2,763,766	8,873	
718	WINTHROP TAP TO TWISP-OKANOGAN	702,769	39,003	
719	WNP1-ASHE NO 2	76,075	3,209	
720	XADAIR TAP TO SALEM-ALBANY NO2	51,854	1,295	
721	Subtotal Lines	2,227,661,281	23,787,681	
722				
723	Substations	Investment (\$)	O&M (\$)	Multi %
724	ABERDEEN SUBSTATION	5,330,243	391,801	
725	ADAIR SUBSTATION(BPA)	506,210	81,494	
726	ADDY SUBSTATION	7,141,010	229,934	70%
727	AFTON COGENERATION POWER PLANT	8,654	0	
728	AHSAHKA SUBSTATION	22,139	3,495	
729	AIRWAY HEIGHTS SUBSTATION	27,894	1,141	
730	ALBANY SUBSTATION	11,001,946	307,736	88%
731	ALBENI FALLS SUBSTATION	1,096,932	74,667	75%
732	ALBION SUBSTATION	1,031	1,877	
733	ALCOA SUBSTATION	7,623,590	514,440	88%
734	ALDER METERING POINT	27,765	343	
735	ALFALFA SUBSTATION	1,520,391	92,632	
736	ALKALI SUBSTATION	61,692	863	
737	ALLSTON SUBSTATION	44,853,809	1,871,888	
738	ALTURAS SUBSTATION	21,364	1,977	
739	ALVEY SUBSTATION	21,364,524	694,957	73%
740	AMES LAKE SUBSTATION	30,075	946	
741	ANACONDA SUBSTATION	3,438,684	310,458	
742	ANGUS SUBSTATION (BENTON CO PUD)	15,475	1,002	
743	APPLEWAY SUBSTATION	24,992	1,534	
744	ARCO SUBSTATION(UTAH POWER & LIGHT)	32,413	1,180	
745	ARIEL SUBSTATION	35,332	1,434	
746	ARMSTRONG SUBSTATION(INLAND POWER & LIGHT)	8,286	2,716	
747	ARTONDALE SUBSTATION	88,106	8,826	
748	ASHE SUBSTATION	28,599,956	1,272,002	90%
749	ASHLAND SUBSTATION	85,217	0	
750	ATHOL SUBSTATION(KOOTENAI ELEC COOP)	19,663	2,576	
751	AUSTIN SWITCHYARD	13,635	3,726	
752	BADGER CANYON SUBSTATION	1,846,443	75,382	
753	BALD MOUNTAIN SUBSTATION	4,043,063	71,940	
754	BANDON SUBSTATION	3,428,347	169,942	75%
755	BANGOR SUBSTATION	67,321	2,358	
756	BANNACK SUBSTATION	109,110	2,970	
757	BARRETT'S SUBSTATION(VIGILANTEELECTRIC)	28,520	0	
758	BAXTER SUBSTATION(SOLD, SEE NOTES))	15,519	1,691	
759	BEACON SUBSTATION	1,931	0	
760	BEAVER BAY SUBSTATION (COWLITZ PUD)	24,843	440	
761	BEAVER SUBSTATION (PGE)	76,108	10,796	
762	BEAVER SUBSTATION(TILLAMOOK PUD)	61,093	18,605	
763	BELL SUBSTATION	73,218,750	3,014,397	
764	BELLINGHAM SUBSTATION(BPA)	11,711,270	366,538	
765	BELLINGHAM SUBSTATION(PUGET SOUND ENERGY)	2,432	4,017	
766	BENTON CITY SUBSTATION(BENTONCO PUD)	15,267	911	
767	BENTON SUBSTATION	7,772,465	272,028	
768	BERRIAN SUBSTATION	25,904	318	
769	BERRYDALE SUBSTATION (CLP)	36,801	949	
770	BERTENSEN SUBSTATION	28,702	209	
771	BETHEL SUBSTATION	12,410	1,044	
772	BETTAS ROAD SUBSTATION	5,183,108	18,811	
773	BEVERLY PARK SUBSTATION	86,702	2,490	
774	BIG EDDY SUBSTATION	10,815,294	319,962	14%
775	BIG FORK SUBSTATION (FEC)	6,087	0	
776	BIG PASCO	13,215	761	
777	BINGEN SUBSTATION(KLINKITAT CO PUD)	3,919	1,471	

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778	BLACKROCK SUBSTATION	10,803	9,893	
779	BLAINE SUBSTATION	128,593	3,306	
780	BLAKESLEE JUNCTION SWITCHING STATION	1,082,385	0	
781	BLANTON ROAD SUBSTATION	22,796	512	
782	BOARDMAN SUBSTATION	6,843,106	180,344	
783	BONNER SUBSTATION	45,980	1,581	
784	BONNERS FERRY SUBSTATION	1,414,242	75,189	64%
785	BOOTH BEND SUBSTATION	11,060	583	
786	BOUNDARY SUBSTATION	3,898,014	282,962	
787	BOX CANYON POWERHOUSE	56,157	2,288	
788	BOYER SWITCHING STATION	21,947	14,235	
789	BRASADA SUBSTATION (CENTRAL ELECTRIC COOPERATIVE)	492,476	45,301	
790	BREMERTON SUBSTATION (PSE)	57,828	556	
791	BREWSTER SUBSTATION	36,031	1,165	
792	BRIDGE SUBSTATION	4,911,447	162,321	
793	BRIDGEPORT BAR (BOOST)	7,651	757	
794	BRIDGEPORT BAR (PUMP)	8,356	0	
795	BRINCKEN'S CORNER SUBSTATION	922,405	43,343	
796	BROADMOOR SUBSTATION	47,034	548	
797	BROADVIEW SUBSTATION	123,479	0	
798	BROOKDALE SUBSTATION(ELMHURSTMUTUAL PWR & LIGHT)	82,392	5,352	
799	BROOKDALE SUBSTATION(TACOMA PUBLIC UTILITIES)	43,391	0	
800	BUCKLEY SUBSTATION	3,274,840	95,337	36%
801	BURBANK #2 METERING POINT	10,340	0	
802	BURBANK #3 METERING POINT	9,282	0	
803	BURLEY SUBSTATION(CITY OF BURLEY)	8,862	1,219	
804	CABINET GORGE SUBSTATION	86,571	2,304	
805	CALPINE SUBSTATION	25,548	24,570	
806	CANAL SUBSTATION	1,774,559	59,187	
807	CANBY SUBSTATION(BPA)	1,616,374	68,511	
808	CANBY SUBSTATION(PGE)	28,591	1,044	
809	CANBY SUBSTATION(SURPRISE VALLEY ELEC)	84,531	7,763	
810	CAPE HORN SUBSTATION	28,175	4,853	
811	CARDWELL SUBSTATION	2,183,470	131,974	
812	CARLIN SUBSTATION	7,918	713	
813	CARLSON SUBSTATION	29,249	0	
814	CARLTON SUBSTATION	5,825,315	322,145	
815	CARMEN POWERHOUSE	31,287	1,070	
816	CARSON SUBSTATION	2,593	3,755	
817	CASCADE STEEL SUBSTATION	87,356	2,156	
818	CATHLAMET SUBSTATION	59,110	5,204	
819	CEDARVILLE CITY SUBSTATION	22,896	0	
820	CEDARVILLE JUNCTION SUBSTATION	731,274	147,168	
821	CENTRALIA MINES SUBSTATION	5,778	0	
822	CENTRALIA SUBSTATION	1,680,624	101,455	
823	CENTRALIA SWITCHING STATION	176,972	1,005	
824	CENTRALIA THERMAL POWERHOUSE	15,230	705	
825	CHALLIS SUBSTATION	26,328	0	
826	CHEHALIS SUBSTATION	15,690,960	1,060,108	
827	CHELATCHIE SUBSTATION	17,442	626	
828	CHEMAWA SUBSTATION	16,074,934	1,179,904	
829	CHEMICAL SUBSTATION	127,756	0	
830	CHENEY SUBSTATION	338,981	9,140	
831	CHENOWETH SUBSTATION	7,290,514	172,833	
832	CHERRY CREEK SUBSTATION	8,426	1,008	
833	CHESHIRE SUBSTATION (EPUD)	104,113	1,534	
834	CHEVRON SUBSTATION	20,231	3,558	
835	CHEWELAH SUBSTATION	26,994	3,049	
836	CHIEF JOSEPH SUBSTATION	22,807,490	1,385,966	72%
837	CHRISTMAS VALLEY SUBSTATION	36,342	852	
838	CITY VIEW SUBSTATION	29,453	1,735	
839	CLARK SUB	21,851	0	
840	CLARKSTON SUBSTATION	532,252	54,361	
841	CLATSKANIE SUBSTATION (CLATSKANIE PUD)	12,340	4,021	
842	CLATSOP SUBSTATION	2,305,509	400,594	
843	CLAYTON SUBSTATION	28,441	7,517	
844	CLINTON SUBSTATION (SOLD)	5,411	5,233	
845	COEUR D'ALENE 15TH STREET SUBSTATION	37,103	877	
846	COLD CREEK SUBSTATION	41,821	7,549	
847	COLLINS LAKE SUBSTATION	15,858	0	
848	COLLINS SUBSTATION	18,228	1,583	
849	COLUMBIA CREST SUBSTATION	15,608	1,687	
850	COLUMBIA FALLS SUBSTATION -- 115 YARD	3,400,312	372,336	
851	COLUMBIA FALLS SUBSTATION - 230 KV YARD	12,029,984	85,292	
852	COLUMBIA SUBSTATION	24,349,718	807,016	
853	COLVILLE SUBSTATION	3,536,169	199,310	
854	CONDON SUBSTATION	41,086	1,744	
855	CONKELLEY SUBSTATION	5,163,841	264,522	45%

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856	CONNELL SUBSTATION	746,801	18,857	
857	CORVALLIS SUBSTATION	14,452	3,389	
858	COSMOPOLIS SUBSTATION	1,355,888	153,926	
859	COTTONWOOD METERING POINT(BPA)	54,681	1,097	
860	COVINGTON SUBSTATION	34,303,829	4,387,248	
861	COW CREEK SUBSTATION (UIUC)	14,830	2,498	
862	COWLITZ FALLS POWERHOUSE	72,665	4,369	
863	COWLITZ SUBSTATION(TACOMA PUBLIC UTILITIES)	368,188	5,331	
864	COWLITZ SUBSTATION(BPA)	1,913,272	111,866	
865	COYOTE SPRINGS SUBSTATION	4,544,394	(20,835)	
866	CRAIGMONT SUBSTATION	56,390	2,280	
867	CRESTON SUBSTATION(BPA)	1,523,306	102,703	
868	CRESWELL SUBSTATION	31,204	1,265	
869	CURLEW SUBSTATION	10,717	1,534	
870	CUSICK SUBSTATION	1,668,326	82,686	
871	CUSTER SUBSTATION	36,087,595	1,138,407	
872	DARBY SUBSTATION	23,882	1,983	
873	DAYTON SUBSTATION(MASON COUNTY)	42,516	1,405	
874	DE MOSS SUBSTATION(BPA)	1,613,994	156,518	
875	DEER PARK SUBSTATION	934,125	45,696	
876	DELENA SUBSTATION	60,981	9,290	
877	DELIGHT SUBSTATION	34,597	663	
878	DELL SUBSTATION	30,156	4,862	
879	DEXTER SUBSTATION (LANE ELECTRIC)	24,525	1,990	
880	DILLARD SUBSTATION	17,335	1,292	
881	DILLON SUBSTATION	28,985	2,902	
882	DILLON-SALMON SUBSTATION	110,343	2,151	
883	DISCOVERY BAY SUBSTATION	26,613	510	
884	DISCOVERY SUBSTATION (N. WASCO PUD)	124,219	28,076	
885	DIVIDE SUBSTATION	22,748	1,880	
886	DIXON SUBSTATION	3,481,862	91,441	
887	DOE 251W SUBSTATION	12,982	639	
888	DOE 451A SUBSTATION	11,839	1,030	
889	DOE 451B SUBSTATION	21,042	23,462	
890	DONALD NYS SUBSTATION	9,822	0	
891	DORENA SUBSTATION	195,315	52,431	
892	DOVER SWITCHING STATION	18,324	829	
893	DOWER SUBSTATION	1,570	566	
894	DRAIN SUBSTATION	2,418,762	134,497	91%
895	DREWSEY METERING POINT (IPCO)	6,039	0	
896	DRISCOLL SUBSTATION	1,569,835	225,211	
897	DROP PLANT PUMPING PLANT	8,779	0	
898	DRUMMOND MONTANA SUBSTATION	4,352	0	
899	DRUMMOND SUBSTATION	8,831,867	666,134	
900	DUCKABUSH SUBSTATION	37,560	11,130	
901	DUTCH CANYON SUBSTATION	15,947	0	
902	DWORSHAK SUBSTATION	20,299,284	331,661	82%
903	EAGLE POINT METERING POINT	23,907	0	
904	EAST BENCH SUBSTATION	29,447	1,359	
905	EAST COLFAX SUBSTATION	6,054	1,224	
906	EAST FOSSIL SUBSTATION	50,617	770	
907	EAST GREENACRES #1 METERING POINT	9,045	0	
908	EAST GREENACRES #2 METERING POINT	7,420	0	
909	EAST GREENACRES #3 METERING POINT	8,778	0	
910	EAST HILLS SUBSTATION	537,847	33,873	
911	EAST OMAK SUBSTATION	3,994,043	188,531	
912	EAST PINE SUBSTATION	19,963	0	
913	EAST SUBSTATION	4,388	0	
914	ECHO LAKE SUBSTATION	31,761,333	284,913	
915	EGYPT SUBSTATION	29,691	342	
916	EIGHT MILE CREEK METERING POINT	229,192	0	
917	ELBE SUBSTATION	27,620	2,740	
918	ELLENSBURG SUBSTATION	1,239,887	304,035	
919	ELM STREET SUBSTATION	14,496	5,496	
920	ELMA SUBSTATION	686,902	50,720	
921	ELMAR SUBSTATION	33,016	2,263	
922	ELMO SUBSTATION(MVP)	48,586	689	
923	ELTOPIA BRANCH CANAL POWERHOUSE	14,336	396	
924	ELTOPIA SUBSTATION(SOLD)	24,590	342	
925	ELY SUBSTATION	35,905	1,438	
926	EMERGENCY OPERATING FACILITY	44,194	10,580	
927	ENDERSBY SUBSTATION	9,311	7,419	
928	ENERGIZER SUBSTATION (KPUD)	14,669	35,700	
929	ENTERPRISE SUBSTATION	21,193	367	
930	EUGENE SUBSTATION	6,050,935	207,195	
931	EUREKA SUBSTATION (LINCOLN ELEC)	37,497	5,705	
932	EVERGREEN PUMP STATION	24,923	2,862	
933	EWAN SUBSTATION	8,238	139	

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934	FAIRCHILD AIR FORCE BASE NORTH SUBSTATION	25,055	3,652	
935	FAIRCHILD AIR FORCE BASE SOUTH SUBSTATION	34,734	6,807	
936	FAIRFIELD SUBSTATION	22,634	0	
937	FAIRMOUNT SUBSTATION	14,691,524	378,781	
938	FAIRVIEW SUBSTATION(BPA)	11,035,457	685,040	
939	FEEDVILLE SUBSTATION (UEC)	6,548	294	
940	FERN HILL SUBSTATION	13,666	1,337	
941	FERN RIDGE SUBSTATION (LANE ELECTRIC)	16,530	1,191	
942	FERNDAL SUBSTATION	17,315	746	
943	FIDALGO SUBSTATION	4,833,589	175,454	
944	FILBERT SUBSTATION(CITY OF FOREST GROVE)	15,622	270	
945	FIRST LIFT SUBSTATION	28,131	0	
946	FIRST STREET SUBSTATION	69,550	2,204	
947	FISHERS ROAD SUBSTATION	6,861	0	
948	FLATHEAD SUBSTATION(BPA & FLATHEAD ELEC)	5,621,981	179,524	
949	FORDS PRAIRIE SUBSTATION(CITY OF CENTRALIA)	38,555	1,331	
950	FORDS PRAIRIE SUBSTATION(LEWIS CO PUD)	25,993	4,124	
951	FOREST GROVE SUBSTATION	1,248,592	102,115	
952	FORT ROAD METERING POINT	23,768	568	
953	FOSSIL SUBSTATION	1,215,681	95,660	
954	FOSTER CREEK SUBSTATION(NESPELEM VALLEY ELEC)	56,093	11,414	
955	FOSTER CREEK SUBSTATION DOUGLAS CO PUD)	33,214	0	
956	FOSTER WELLS SUBSTATION	87,713	762	
957	FOUR LAKES SUBSTATION	67,720	12,698	
958	FOURTH AND HERALD SUBSTATION	18,003	0	
959	FRANKLIN SUBSTATION	7,304,404	647,570	80%
960	FRANZ HOLMES SUBSTATION	152,954	853	
961	FREEWATER SUBSTATION(BPA)	1,682,349	31,297	
962	FRENCHMAN HILLS SUBSTATION	14,788	603	
963	FRENCHMAN SPRINGS SUBSTATION	19,285	651	
964	FRENCHTOWN SUBSTATION (SOLD)	24,770	2,307	
965	FROMAN SUBSTATION	10,025	2,079	
966	GARIBALDI SUBSTATION(TILLAMOOK PUD)	350,237	12,299	
967	GARRISON SUBSTATION	47,298,918	951,482	66%
968	GATES OF THE MOUNTAINS METERING POINT	7,949	3,359	
969	GEISEL MONUMENT SUBSTATION	37,685	1,391	
970	GEM STATE HYDRO PLANT	10,421	396	
971	GEORGIA PACIFIC SUBSTATION(PSE)	69,838	476	
972	GIG HARBOR SUBSTATION	59,167	2,238	
973	GILMER SUBSTATION(KLICKITAT CO PUD)	22,504	1,092	
974	GLASGOW SUBSTATION	30,939	2,424	
975	GLENOMA SUBSTATION	52,158	1,045	
976	GLENWOOD SUBSTATION	40,100	1,519	
977	GOBLE SUBSTATION	29,349	1,297	
978	GOLD BEACH SUBSTATION	129,528	20,333	
979	GOLDENDALE SUBSTATION(BPA)	1,037,477	92,083	
980	GOOSE LAKE SUBSTATION(NESPELEM VALLEY ELEC)	6,433	4,845	
981	GORMLEY SUBSTATION (MCMINNVILLE W & L)	47,378	0	
982	GOSHEN SUBSTATION(PACIFICORP)	2,479,756	0	
983	GOSHEN SUBSTATION(UTAH POWER & LIGHT)	2,594,019	234,832	
984	GRAND COULEE #2 METERING POINT	10,705	6,893	
985	GRAND COULEE SUBSTATION	385,862	5,548	
986	GRAND RONDE SUBSTATION	31,005	1,697	
987	GRANDVIEW SUBSTATION	3,431,640	204,734	
988	GRANGEVILLE SUBSTATION	1,434	0	
989	GRANTS DALE SUBSTATION	5,648	3,260	
990	GRAYS HARBOR FACILITY NO 1 (GRAYS HARBOR ENE)	11,252	6,400	
991	GRAYS RIVER SUBSTATION	61,344	11,045	
992	GREAT WESTERN MALTING COMPANY SUBSTATION (RETIRED)	9,499	0	
993	GREEN VALLEY SUBSTATION	2,787,339	44,327	
994	GREENTIMBER SUBSTATION	37,716	569	
995	GROUSE CREEK METERING POINT	13,002	1,599	
996	GUM STREET SUBSTATION	20,554	731	
997	H2F SUBSTATION	23,867	740	
998	HAAKENSEN SUBSTATION	106,056	4,784	
999	HAGEN SUBSTATION	48,927	1,707	
1000	HALF MOON SUBSTATION(INLAND POWER & LIGHT)	20,346	304	
1001	HAMPTON SUBSTATION	73,268	4,758	
1002	HANFORD SUBSTATION	24,763,231	588,341	
1003	HANNA SUBSTATION(DOUGLAS CO PUD)	5,942	0	
1004	HAPPY VALLEY SUBSTATION	3,420,224	106,142	
1005	HARNEY SUBSTATION(BPA)	7,663,206	198,274	
1006	HARVALUM SUBSTATION	3,172,717	188,141	
1007	HARVEY SUBSTATION	292,372	0	
1008	HASKILL SUBSTATION	14,514	25,924	
1009	HASKINS METERING POINT	7,710	2,530	
1010	HAT ROCK SUBSTATION	4,980,889	78,913	
1011	HATTON SUBSTATION(SOLD)	21,007	2,458	

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1012	HATWAI SUBSTATION	10,023,417	612,106	
1013	HAUSER SUBSTATION(BPA)	185,541	36,971	
1014	HAUSER SUBSTATION(CENTRAL LINCOLN PUD)	27,964	168	
1015	HAWK ROAD METERING POINT	17,340	904	
1016	HAWKINS SUBSTATION	10,130	234	
1017	HAY CANYON SUBSTATION (IBERDOLA)	33,796	12,354	
1018	HAY MILL SUBSTATION (UNITED ELEC & CITY OF RUPERT)	228,286	46,352	
1019	HAYDEN SUBSTATION	35,420	294	
1020	HAYFORD SUBSTATION(INLAND POWER & LIGHT)	14,000	540	
1021	HEBO SUBSTATION	389,712	49,939	
1022	HECETA BEACH SUBSTATION	13,867	1,105	
1023	HEDGES SUBSTATION(BENTON CO PUD)	14,917	393	
1024	HEGLAR SUBSTATION	34,766	10,404	
1025	HEIMARK METERING POINT	37,535	0	
1026	HEPPNER GENERATING STATION	27,447	0	
1027	HERMISTON BUTTE (UEC)	20,111	2,307	
1028	HEYBURN SUBSTATION	7,830,374	201,197	
1029	HIDEAWAY SUBSTATION (LANE ELECTRIC)	10,025	557	
1030	HIGHLANDS SUBSTATION(BENTON CO PUD)	13,750	2,239	
1031	HILLTOP SUBSTATION	27,323	100,510	
1032	HILTON LAKE SUBSTATION	28,003	1,325	
1033	HINES SUBSTATION	14,034	2,363	
1034	HOLCOMB SUBSTATION	623,072	70,655	
1035	HOOD RIVER SUBSTATION	448,325	53,243	49%
1036	HOODOO SUBSTATION	9,803	294	
1037	HOPE VALLEY METERING POINT	13,403	536	
1038	HORN RAPIDS SUBSTATION	30,595	1,347	
1039	HORSE HEAVEN SUBSTATION	2,919,014	126,745	
1040	HOT SPRINGS SUBSTATION	13,464,283	1,283,497	
1041	HUGHS SUBSTATION(SALEM ELEC COOP)	40,198	7,132	
1042	IDAHO FALLS SUBSTATION	2,983	7,443	
1043	IDAHOME SUBSTATION	464,176	42,674	
1044	IMRIE SUBSTATION (PACW)	13,670	35,835	
1045	INTALCO SUBSTATION	653,075	29,555	4%
1046	IONE SUBSTATION	501,424	28,930	64%
1047	IRBY SUBSTATION	337,734	27,324	
1048	IRRIGRO SUBSTATION	4,436	0	
1049	JENKINS SUBSTATION	183,601	1,809	
1050	JERICO PUMPING PLANT	36,866	335	
1051	JIGGS-LEE METERING POINT	22,773	0	
1052	JIM CREEK SUBSTATION	20,733	2,717	
1053	JOHN CURTIS SUBSTATION	76,330	2,398	
1054	JOHN DAY CONSTRUCTION SUBSTATION	38,025	2,751	
1055	JOHN DAY SUBSTATION	13,843,944	319,536	40%
1056	JOHN DAY SUBSTATION - 230 YARD	28,114,749	149,167	
1057	JOHNS PRAIRIE SUBSTATION	36,662	1,130	
1058	JONES CANYON SUBSTATION	10,386,951	91,715	
1059	JONES SUBSTATION	5,407	0	
1060	JULIAETTA SUBSTATION	11,005	938	
1061	JUNCTION CITY SUBSTATION(BLACHLY-LANE CO ELEC COOP)	5,106	800	
1062	KALISPELL SUBSTATION(BPA)	5,339,069	296,246	
1063	KAMIAH SUBSTATION	19,894	2,673	
1064	KEELER SUBSTATION	61,455,067	1,777,941	
1065	KELLER SUBSTATION	477,912	28,299	
1066	KELTON SUBSTATION	21,825	8,373	
1067	KENNEDY SUBSTATION	34,007	4,848	
1068	KENNEWICK SUBSTATION(BENTON CO PUD)	23,070	473	
1069	KERR SUBSTATION(BPA)	1,148,217	80,946	
1070	KETTLE FALLS SUBSTATION	5,249	1,214	
1071	KITSAP SUBSTATION	12,634,483	483,105	
1072	KLONDIKE SUBSTATION	89,753	8,439	
1073	KNAPPA SVENSEN SUBSTATION	2,188	318	
1074	KOOSKIA SUBSTATION	21,459	598	
1075	LA GRANDE SUBSTATION	7,240,507	140,070	
1076	LA PINE SUBSTATION	11,685,487	328,777	
1077	LAGOON SUBSTATION	22,101	560	
1078	LAGRANDE POWERHOUSE	18,997	0	
1079	LAKE BAY SUBSTATION	7,193	1,244	
1080	LAKE GROVE SUBSTATION	62,954	2,121	
1081	LAKE LENORE #1 IRRIGATION PUMP	12,122	353	
1082	LAKE LENORE #2 IRRIGATION PUMP	12,736	536	
1083	LAKESIDE SUBSTATION (CLP)	21,534	6,420	
1084	LAKESIDE SUBSTATION (FEC)	22,744	1,456	
1085	LAKEVIEW SUBSTATION	59,059	1,086	
1086	LANCASTER SUBSTATION(BPA)	314,848	185,129	
1087	LANE SUBSTATION	13,034,585	521,511	
1088	LARENE SUBSTATION (INLAND)	440	266	
1089	LATERAL 4 METERING POINT	42,935	7,026	

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1090	LATHAM SUBSTATION	89,194	854	
1091	LEBANON SUBSTATION	1,414,297	29,839	
1092	LEVEY SUBSTATION	488,961	60,236	
1093	LEWIS & CLARK SUBSTATION	7,015	0	
1094	LEXINGTON SUBSTATION	3,877,023	85,269	
1095	LIBBY SUBSTATION(BPA)	5,480,815	388,520	82%
1096	LIBBY SUBSTATION(BPA/FLATHEADELEC)	563,499	39,737	
1097	LION MOUNTAIN SUBSTATION	12,034	4,985	
1098	LITTLE GOOSE SUBSTATION	9,026,627	242,123	80%
1099	LOCUST SUBSTATION	32,812	4,603	
1100	LODHOLM SUBSTATION	59,434	1,736	
1101	LOLO SUBSTATION(MPC)	16,060	748	
1102	LONE PINE SUBSTATION(PACIFICORP)	26,796	0	
1103	LONGVIEW SUBSTATION	31,207,900	943,336	
1104	LOOKINGGLASS SUBSTATION(BPA)	309,359	9,004	
1105	LOOKOUT POINT SUBSTATION	1,229,159	69,729	75%
1106	LOPEZ ISLAND SUBSTATION(BPA)	6,647,819	309,468	
1107	LOST RIVER SUBSTATION	1,796,729	91,663	
1108	LOW GAP METERING POINT	11,133	335	
1109	LOWER BULB GENERATING PLANT	16,027	0	
1110	LOWER GRANITE SUBSTATION	5,175,963	290,325	75%
1111	LOWER MONUMENTAL SUBSTATION	22,062,492	253,350	88%
1112	LOWER WOODCHUCK SUBSTATION	34,740	1,483	
1113	LUHR BEACH SUBSTATION	58,733	1,087	
1114	LUMP GULCH SUBSTATION	20,312	2,929	
1115	LYLE SUBSTATION	48,978	1,154	
1116	MABTON SUBSTATION	1,352,795	35,664	
1117	MACKAY SUBSTATION	198,886	0	
1118	MACKS INN SUBSTATION	429,291	125,040	
1119	MADISON SUBSTATION	1,480,810	52,096	
1120	MAPLE VALLEY SUBSTATION	66,945,477	1,658,916	
1121	MAPLETON SUBSTATION	387,996	58,121	68%
1122	MARENGO SUBSTATION	28,220	2,601	
1123	MARION SUBSTATION	30,272,414	1,181,043	92%
1124	MARTIN CREEK SUBSTATION	4,254,903	116,375	
1125	MASON SUBSTATION(MASON CO PUDNO 3)	13,759	1,085	
1126	MAUPIN SUBSTATION	1,872,509	160,111	
1127	MAYFIELD POWERHOUSE	3,167	0	
1128	MAYFIELD SWITCHYARD	202,128	4,114	
1129	MAYVIEW SUBSTATION (INLAND POWER)	100,985	1,379	
1130	MCCULLOUGH SUBSTATION	29,139	1,454	
1131	MCKENZIE SUBSTATION(EWEB)	47,720	1,308	
1132	MCLOUGHLIN SUBSTATION	2,592,460	123,701	
1133	MCMINNVILLE SUBSTATION	1,913,615	129,557	
1134	MCNARY SUBSTATION	31,750,255	929,147	88%
1135	MESA SUBSTATION(SOLD, SEE NOTES)	27,057	977	
1136	METALINE FALLS SUBSTATION(PEND OREILLE CO PUD)	14,425	1,197	
1137	MIDWAY SUBSTATION(BPA)	13,475,761	854,527	
1138	MILAN SUBSTATION	27,672	1,413	
1139	MILL PLAIN SUBSTATION	3,331	0	
1140	MILL PRIMARY SUBSTATION	44,409	0	
1141	MILLER SUBSTATION(LAKEVIEW LIGHT & PWR)	123,121	3,517	
1142	MILTON SUBSTATION(CITY OF MILTON FREEWATER)	141,908	27,617	
1143	MINICO SUBSTATION (UNITED ELECTRIC)	12,493	1,795	
1144	MINT FARM SWITCHING STATION	12,566	30,636	
1145	MISSION SUBSTATION	4,255	591	
1146	MIST SUBSTATION	50,488	15,640	
1147	MOAB SUBSTATION	27,824	294	
1148	MOHLER SUBSTATION(TILLAMOOK PUD)	29,278	16,155	
1149	MONROE SUBSTATION	38,742,774	1,163,297	
1150	MORRISON SUBSTATION	17,456	0	
1151	MOSCOW SUBSTATION	13,897	1,631	
1152	MOSSYROCK SUBSTATION	17,122	0	
1153	MOSSYROCK SWITCHYARD	47,727	3,854	
1154	MOUNTAIN HOME SUBSTATION(IDAHO POWER)	67,338	3,586	
1155	MOUNTAIN VIEW SUBSTATION(MASON CO PUD NO 3)	29,452	0	
1156	MOXEE SUBSTATION	2,368,692	134,869	
1157	MOYIE DAM	32,179	3,725	
1158	MT. HALL SUBSTATION	15,208	2,268	
1159	MT. VERNON SUBSTATION(SPRINGFIELD UTILITY BOARD)	7,307	468	
1160	MURRAY SUBSTATION	9,164,934	1,007,022	
1161	NAPAVINE SUBSTATION	795,546	67,787	
1162	NARROWS SUBSTATION	96,416	2,130	
1163	NASELLE SUBSTATION	4,091,803	243,403	
1164	NEFF ROAD METERING POINT	46,637	342	
1165	NEWCOMB SUBSTATION(SOLD)	28,362	3,206	
1166	NEWPORT SUBSTATION(INLAND POWER)	177,315	4,713	
1167	NINE CANYON SUBSTATION (BENTON PUD)	40,824	35,964	

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1168	NINE MILE SUBSTATION (FPLE)	42,950	19,355	
1169	NORTH BEND SUBSTATION	39,582	234	
1170	NORTH BONNEVILLE SUBSTATION	5,637,233	305,195	63%
1171	NORTH BROOKINGS SUBSTATION	439,706	24,042	
1172	NORTH LEWISTON SUBSTATION	20,900	438	
1173	NORTH PASCO SUBSTATION	59,484	1,767	
1174	NORTH PORT SUBSTATION (CCL)	25,067	0	
1175	NORTH POWDER SUBSTATION	4,392	0	
1176	NOTI CREEK SUBSTATION	114,195	7,256	
1177	NOXON CONSTRUCTION SUBSTATION	171,881	2,750	
1178	NOXON DAM POWERHOUSE	50,959	0	
1179	NOXON SWITCHYARD	3,248	4,354	
1180	OAK KNOLL SUBSTATION	17,403	2,785	
1181	OAKRIDGE SUBSTATION (LANE ELECTRIC)	156,911	10,645	
1182	ODESSA SUBSTATION	816,570	58,059	
1183	O'GARA SUBSTATION	1,305	1,800	
1184	OHOP SUBSTATION	61,175	6,233	
1185	OKANOGAN SUBSTATION	10,025	8,903	
1186	OLD LOWER GENERATING PLANT	7,514	0	
1187	OLINDA SUBSTATION	100,792	0	
1188	OLNEY METERING POINT	35,014	257	
1189	OLYMPIA SUBSTATION	32,346,348	1,322,079	
1190	OLYMPIC PIPELINE	12,580	1,701	
1191	OMAK SUBSTATION	13,613	889	
1192	OPHIR SUBSTATION	11,385	0	
1193	OPPORTUNITY SUBSTATION	15,961	954	
1194	OREGON CITY SUBSTATION	4,969,744	273,299	
1195	OREMET SUBSTATION	31,352	0	
1196	OSTRANDER SUBSTATION	28,199,277	1,264,365	
1197	OTHELLO SUBSTATION	69,527	0	
1198	OVANDO SUBSTATION	1,485,661	123,518	
1199	OXBOW SUBSTATION(PACIFIC CO PUD)	14,180	1,769	
1200	PACIFIC SUBSTATION	39,385	2,717	
1201	PACKWOOD POWERHOUSE	21,911	5,211	
1202	PACKWOOD SUBSTATION	59,119	0	
1203	PARKDALE SUBSTATION	628,684	31,960	51%
1204	PARKLAND SUBSTATION	20,439	0	
1205	PASCO SUBSTATION	46,324	416	
1206	PATEROS SUBSTATION	11,455	0	
1207	PATERSON SUBSTATION	19,705	550	
1208	PATTON VALLEY METERING POINT	17,235	1,012	
1209	PAUL SUBSTATION	13,082,211	618,122	
1210	PE ELL SUBSTATION(LEWIS CO PUD)	16,913	607	
1211	PEARL SUBSTATION	39,072,165	707,886	
1212	PEBBLE SPRINGS SUBSTATION (IBERDOLA)	195,288	0	
1213	PENDERGAST SUBSTATION	5,409	0	
1214	PENDLETON SUBSTATION	43,283	42,048	
1215	PHILLIPS SUBSTATION	51,248	3,249	
1216	PIHL ROAD METERING POINT	12,687	226	
1217	PIKE METERING POINT	46,084	4,926	
1218	PILOT ROCK SUBSTATION	166,943	1,785	
1219	PINE HOLLOW SUBSTATION	9,950	634	
1220	PIONEER SUBSTATION	26,068	0	
1221	PLEASANT HILL SUBSTATION	25,938	295	
1222	PLEASANT VIEW SUBSTATION	6,044	629	
1223	PLUMMER SUBSTATION	55,840	5,389	
1224	PLYMOUTH SUBSTATION	41,633	609	
1225	POINT OF ROCKS SUBSTATION	47,044	1,622	
1226	POMEROY SUBSTATION(BPA)	85,125	70,147	
1227	PONDEROSA SUBSTATION(BPA)	11,102,113	269,247	
1228	POPCORN HILL METERING POINT	22,116	0	
1229	PORT ANGELES SUBSTATION(BPA)	17,382,992	1,032,791	
1230	PORT ANGELES SUBSTATION(ITT RAYONIER)	465,014	0	
1231	PORT ORFORD SUBSTATION	38,845	4,078	9%
1232	PORT TOWNSEND SUBSTATION	54,323	4,276	
1233	POTHOLES EAST CANAL GENERATING PLANT	14,299	860	
1234	POTHOLES SUBSTATION	4,230,633	205,698	
1235	POTLATCH SUBSTATION(AVISTA)	34,912	2,827	
1236	POTLATCH SUBSTATION(BPA)	922,762	61,346	83%
1237	POWERLINE SUBSTATION	22,086	320	
1238	PRAIRIE SUBSTATION(WWP & KOOTENAI ELEC COOP)	15,691	0	
1239	PRIEST RIVER SUBSTATION(AVISTA)	30,389	942	
1240	PRIEST RIVER SUBSTATION(BPA)	784,499	48,446	
1241	PROSSER SUBSTATION(BENTON CO PUD)	12,087	1,760	
1242	PURDY SUBSTATION	59,163	2,153	
1243	PYRAMID SUBSTATION	26,868	1,465	
1244	QUARTZ SUBSTATION (IDAHO POWER)	9,766	3,813	
1245	QUINCY SUBSTATION	16,867	354	

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1246	RADAR PUMPING PLANT	13,763	676	
1247	RAFT SUBSTATION	2,177	14,527	
1248	RAINIER SUBSTATION	146,713	3,112	
1249	RALSTON SUBSTATION(SOLD)	5,604	535	
1250	RANDLE SUBSTATION	32,099	0	
1251	RATHDRUM SUBSTATION	28,219	5,827	
1252	RATTLESNAKE SUBSTATION(BENTON REA)	43,829	414	
1253	RAVER SUBSTATION	43,189,150	1,042,889	
1254	RAYMOND SUBSTATION	2,852,353	264,915	
1255	REATA SUBSTATION(BENTON CO PUD)	12,863	1,293	
1256	RED MOUNTAIN SUBSTATION	4,273,462	90,189	
1257	REDMOND SUBSTATION(BPA)	15,287,424	951,278	
1258	REEDSPORT SUBSTATION (BPA)	1,902,952	105,780	80%
1259	REPUBLIC SUBSTATION	512,562	32,275	
1260	RESTON SUBSTATION	347,850	35,795	
1261	RICHLAND SUBSTATION	2,412,655	141,851	
1262	RILEY SUBSTATION	50,777	1,594	
1263	RIMROCK LAKE SUBSTATION (BENTON REA)	30,789	584	
1264	RIVERFRONT SUBSTATION	21,522	1,579	
1265	RIVERGATE SUBSTATION	4,468	2,035	
1266	RIVERTON SUBSTATION(CITY OF HEYBURN)	22,577	911	
1267	ROBBINS ROAD METERING POINT	20,394	530	
1268	ROCK CREEK SUBSTATION	42,030,039	371,669	
1269	ROCKY BROOK POWERHOUSE	2,016	2,244	
1270	ROCKY REACH SUBSTATION	4,230,844	57,687	
1271	ROE'S CORNER SUBSTATION	38,236	1,245	
1272	ROGUE SUBSTATION	7,072,530	403,772	
1273	ROSALIA SUBSTATION	28,425	1,045	
1274	ROSS SUBSTATION	13,665,026	1,422,482	
1275	ROUND VALLEY SUBSTATION	1,571,272	61,776	
1276	ROUNDUP SUBSTATION	5,356,636	295,012	
1277	ROXBORO SUBSTATION	21,585	2,571	
1278	ROY L ZIMMERMAN SUBSTATION	45,535	799	
1279	ROZA SUBSTATION	3,368	0	
1280	RUBY STREET SUBSTATION (FRANKLIN CO PUD)	41,188	1,751	
1281	RUSSELL SMITH POWERHOUSE	11,906	610	
1282	SACAJAWEA SUBSTATION	22,858,680	161,299	99%
1283	SACHEEN SUBSTATION	2,151,593	79,935	
1284	SAGEHILL SUBSTATION	1,506	649	
1285	SALEM ALUMINA SUBSTATION(SALEM ELEC COOP)	18,224	1,522	
1286	SALEM SUBSTATION(	4,847,599	379,833	
1287	SAMMAMISH SUBSTATION	1,911	0	
1288	SAMUELS SUBSTATION	42,869	738	
1289	SAND CREEK SUBSTATION	5,887,645	139,990	
1290	SAND DUNES SUBSTATION	3,510,776	0	
1291	SAND HILL CRANE SUBSTATION	70,897	3,303	
1292	SANDPOINT SUBSTATION(BPA)	811,367	121,146	77%
1293	SANTIAM SUBSTATION	14,465,837	1,081,840	95%
1294	SAPPHO SUBSTATION	1,579,420	100,103	
1295	SATSOP PARK SUBSTATION (GHPUD)	171,077	9,185	
1296	SATSOP SUBSTATION(BPA)	19,129,257	293,353	
1297	SATUS 2 SUBSTATION	9,693	0	
1298	SATUS 3 SUBSTATION	28,953	0	
1299	SCAPPOOSE SUBSTATION	39,482	1,080	
1300	SCARCELLO SUBSTATION (KOOTENAI ELECTRIC)	10,025	1,816	
1301	SCHULTZ SUBSTATION	64,290,491	695,070	
1302	SCOGGINS VALLEY METERING POINT	27,685	1,365	
1303	SCOOTENEY SUBSTATION	775,042	58,054	77%
1304	SEDRO WOOLLEY SUBSTATION	41,393	3,238	
1305	SETTERS SUBSTATION	18,961	304	
1306	SEVEN FEATHERS SUBSTATION (UIUC)	10,387	2,630	
1307	SHANO SUBSTATION	32,045	547	
1308	SHELTON SUBSTATION	27,020,426	340,482	
1309	SHORT MOUNTAIN GENERATING PLANT	17,681	697	
1310	SICKLER SUBSTATION	8,459,191	1,768,808	
1311	SIFTON SUBSTATION	5,637,094	347,529	
1312	SILVER BOW SUBSTATION	1,249,287	112,893	
1313	SILVER CREEK SUBSTATION	2,084,546	195,606	
1314	SILVER STAR SUBSTATION	44,433	4,925	
1315	SKOOKUM SUBSTATION	68,054	1,114	
1316	SLATT SUBSTATION	25,585,724	461,722	89%
1317	SMITHSON SUBSTATION (KITITITAS CO PUD)	29,513	0	
1318	SNIPES SUBSTATION	90,899	4,141	
1319	SNIPTON SUBSTATION	47,195	1,371	
1320	SNOHOMISH SUBSTATION	37,865,335	2,407,445	
1321	SNO-KING SUBSTATION	34,407,361	935,052	
1322	SNYDER SUBSTATION	24,522	459	
1323	SODA SPRINGS SUBSTATION	6,336	0	

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1324	SOUTH BUTTE SUBSTATION	12,037	0	
1325	SOUTH CUT BANK SUBSTATION	11,955	0	
1326	SOUTH ELMA SUBSTATION	342,096	14,232	
1327	SOUTH FORK SUBSTATION	49,334	2,461	
1328	SOUTH SLOPE SUBSTATION	31,283	1,094	
1329	SOUTH SUBSTATION (SEATTLE CITY LIGHT)	62,772	0	
1330	SOUTH TACOMA SUBSTATION	4,287,820	205,497	
1331	SPALDING SUBSTATION	51,421	1,408	
1332	SPANGLE SUBSTATION	18,957	1,315	
1333	SPAR CANYON SUBSTATION	544,905	68,325	
1334	SPAW SUBSTATION	11,078	0	
1335	SPEARFISH SUBSTATION(KLICKITAT CO PUD)	35,741	2,119	
1336	SPRING CREEK SUBSTATION	9,530,317	102,480	
1337	SPRINGFIELD SUBSTATION(SPRINGFIELD UTILITY BOARD)	23,401	0	
1338	SPRINGHILL SUBSTATION(INLAND POWER & LIGHT)	23,544	618	
1339	ST. HELENS SUBSTATION	18,502	3,949	
1340	ST. JOHNS SUBSTATION	7,165,499	688,812	
1341	STEVENS DRIVE SUBSTATION(CITY OF RICHLAND)	51,835	105	
1342	STEVENSON SUBSTATION	25,896	5,470	
1343	STEVENSVILLE SUBSTATION	2,086	4,007	
1344	STILLWATER SUBSTATION(LINCOLN ELECTRIC COOP)	37,172	4,545	
1345	SUBSTATION FG	15,482	2,599	
1346	SUGAR MILL SUBSTATION	185,017	2,759	
1347	SULLIVAN SUBSTATION(VERA WATER & POWER)	5,684	373	
1348	SUMAS SUBSTATION	13,840	1,836	
1349	SUMMER LAKE SUBSTATION	2,269,369	126,832	43%
1350	SUMNER SUBSTATION	22,970	3,844	
1351	SUN HEAVEN NO. 2 SUBSTATION	31,152	2,821	
1352	SUNNYSIDE PORT SUBSTATION	30,128	0	
1353	SUNSET ROAD SUBSTATION (BENTON CO PUD)	26,467	1,439	
1354	SWAN VALLEY SUBSTATION	5,459,787	149,168	92%
1355	SWEETWATER SUBSTATION	22,846	2,218	
1356	TACOMA SUBSTATION	17,011,984	971,188	92%
1357	TAFT SUBSTATION	34,179,384	539,960	
1358	TAHKENITCH SUBSTATION	5,768,586	158,894	
1359	TAPTEAL SUBSTATION	92,685	942	
1360	TARBELL SUBSTATION	18,665	883	
1361	TARGHEE SUBSTATION	1,463,461	185,162	
1362	TARGHEE TAP SWITCHING STATION	317,710	5,452	
1363	TARKIO SUBSTATION (SOLD)	3,886	2,421	
1364	TAYLOR FLATS SUBSTATION	7,012	1,252	
1365	TEANAWAY SUBSTATION	398	613	
1366	TECOMA METERING POINT	15,357	1,326	
1367	TETON SUBSTATION	2,642,162	232,603	
1368	THAYER DRIVE SUBSTATION(CITY OF RICHLAND)	85,951	2,396	
1369	THE DALLES SUBSTATION	2,378,051	117,164	
1370	THOMPSON FALLS SUBSTATION	41,428	2,129	
1371	THURSTON SUBSTATION	27,476	1,970	
1372	TIDE FLATS SUBSTATION	(1,389)	0	
1373	TILLAMOOK SUBSTATION	7,650,377	457,108	
1374	TIMBER SUBSTATION	595,129	70,956	
1375	TINCUP SUBSTATION	559,127	42,507	
1376	TOLEDO SUBSTATION	12,085,853	356,819	
1377	TOSTON SUBSTATION	24,600	3,259	
1378	TOWNSEND METERING POINT	35,194	2,163	
1379	TRASK RIVER SUBSTATION	19,987	13,127	
1380	TREGO SUBSTATION(LINCOLN ELECTRIC COOP)	454,948	34,826	
1381	TRENTWOOD SUBSTATION	3,377,453	114,451	49%
1382	TROUT CREEK SUBSTATION	45,108	2,008	
1383	TROUTDALE SUBSTATION(BPA)	29,787,750	697,322	
1384	TROY SUBSTATION	118,476	10,263	12%
1385	TRUMBULL CREEK SUBSTATION	12,078	1,040	
1386	TUCANNON RIVER SUBSTATION	3,851,588	131,535	
1387	TUM TUM SUBSTATION	21,889	2,435	
1388	TWILIGHT SUBSTATION	20,840	774	
1389	TWISP SUBSTATION	(630)	1,491	
1390	TWISP SUBSTATION	66,883	0	
1391	TYEE SUBSTATION	86,912	4,813	
1392	TYGH VALLEY SUBSTATION (WASCO ELEC. COOP)	27,349	1,841	
1393	U. S. PLYWOOD SUBSTATION	15,723	0	
1394	UKIAH SUBSTATION	81,846	2,431	
1395	UNDERWOOD SUBSTATION	29,277	6,891	
1396	UNDERWOOD TAP AUTO-SECTIONALIZING STATION	698,308	8,602	
1397	UNITY SUBSTATION (IDAHO POWER COMPANY)	6,894	0	
1398	UNITY SUBSTATION(BPA)	119,169	116,133	
1399	UPPER GENERATING PLANT	17,829	0	
1400	USK SUBSTATION(BPA)	27,619	77,603	
1401	VALHALLA SUBSTATION	3,420,747	282,829	92%

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1402	VALLEY SUBSTATION(RAFT RIVER ELEC COOP)	23,392	4,026	
1403	VANCOUVER SHIPYARD SUBSTATION	26,421	0	
1404	VANTAGE STATE PARK METERING POINT	20,238	0	
1405	VANTAGE SUBSTATION	25,005,273	611,838	
1406	VAUGHN SUBSTATION	29,287	3,623	
1407	VERA SUBSTATION (VERA W&P, INLAND P&L)	10,025	2,164	
1408	VICTOR SUBSTATION (RAVALLI COUNTY ELEC COOP)	6,943	792	
1409	VICTOR SUBSTATION(FALL RIVER RURAL ELEC COOP)	81,618	3,279	
1410	VIEW SUBSTATION	13,906	1,241	
1411	VINSON METERING POINT	27,323	1,007	
1412	VISTA SUBSTATION	25,231	1,205	
1413	WAGNER LAKE SUBSTATION	490,035	39,763	
1414	WAHLUKE SUBSTATION	10,343	0	
1415	WALLA WALLA SUBSTATION(BPA)	10,225,536	254,483	
1416	WALLA WALLA SUBSTATION(PACIFICORP)	224,061	0	
1417	WALNUT CITY SUBSTATION(CITY OF MCMINNVILLE)	9,653	759	
1418	WALTON SUBSTATION	21,204	1,888	6%
1419	WARDEN POLE METERING POINT	14,752	2,661	
1420	WARDEN POLE NO 2 METERING POINT	13,121	0	
1421	WARNER SUBSTATION	3,535,383	139,254	
1422	WARREN SUBSTATION	594,774	83,602	
1423	WAUTOMA SUBSTATION	22,974,978	253,273	
1424	WEIPPE SUBSTATION	18,934	1,577	
1425	WELLS SUBSTATION(IDAHO POWER)	53,246	3,419	
1426	WENDSON SUBSTATION	6,452,098	331,587	
1427	WEST BURLEY SUBSTATION(UNITEDELEC COOP)	156,561	5,859	
1428	WEST JOHN DAY SUBSTATION	32,991	2,865	
1429	WEST PLAINS SUBSTATION (IP&L)	13,630	738	
1430	WEST REXBURG METERING POINT	21,513	0	
1431	WEST WELLS SUBSTATION	18,036	0	
1432	WEST WENDOVER METERING POINT	59,200	3,749	
1433	WESTCOTT SUBSTATION (CANBY ELECTRIC)	22,976	295	
1434	WESTMORELAND SUBSTATION	5,482	0	
1435	WESTSIDE SUBSTATION(BPA)	6,662,868	133,311	
1436	WEYERHAEUSER INDUSTRIAL WAY WEYCO NO 1 SUBSTATION (COWLITZ	20,731	0	
1437	WHEELER SUBSTATION	10,359	0	
1438	WHITCOMB SUBSTATION	95,864	1,227	
1439	WHITE BLUFFS SUBSTATION	8,423,453	200,074	
1440	WHITE RIVER SUBSTATION	10,703	207	
1441	WHITE SWAN SUBSTATION(BENTON REA)	10,025	4,988	
1442	WHITEHALL SUBSTATION	48,014	6,157	
1443	WILLAKENZIE SUBSTATION	32,421	0	
1444	WILLARD JOHNSON SUBSTATION(HOOD RIVER ELEC)	22,483	659	
1445	WILLIS SUBSTATION (KPUD)	12,569	19,135	
1446	WILSON RIVER SUBSTATION	46,669	4,633	
1447	WINCHESTER SUBSTATION	3,851	566	
1448	WINDISHAR SUBSTATION	32,018	42,657	
1449	WINE COUNTRY SUBSTATION	6,342,281	56,054	
1450	WINNEMUCCA SUBSTATION	134,454	5,879	
1451	WINTHROP SUBSTATION	1,167,692	159,512	76%
1452	WOODLAND SWITCHING STATION	250,630	2,943	
1453	WREN SUBSTATION	1,407,981	65,234	
1454	WYNOOCHEE HYDRO PLANT	69,837	1,443	
1455	ZEPHYR HEIGHTS SUBSTATION	36,238	1,012	
1456	Subtotal Subs	2,080,170,535	80,653,983	
1457	Total Integrated Network	4,307,831,816	104,441,665	
1458				
1459	Southern Intertie Facilities			
1460	Transmission Lines	Investment (\$)	O&M (\$)	Multi %
1461	ALVEY-DIXONVILLE NO 1	25,192,398	0	
1462	BIG EDDY 500/230KV TIE NO 1	51,352	311	
1463	BIG EDDY-CELILO NO 1	1,284,742	1,672	
1464	BIG EDDY-CELILO NO 2	1,463,788	1,735	
1465	BIG EDDY-CELILO NO 3	373,697	623	
1466	BIG EDDY-CELILO NO 4	249,132	623	
1467	BUCKLEY-GRIZZLY NO 1	9,961,133	28,155	57%
1468	BUCKLEY-MARION NO 1	20,363,344	35,827	50%
1469	CAPTAIN JACK-MALIN NO 1	844,154	16,723	
1470	CAPTAIN JACK-OLINDA NO 1	7,393,503	7,909	
1471	CELILO-SYLMAR NO 1	27,000,546	561,666	
1472	COYOTE SPRINGS-SLATT NO 1	328,931	2,260	12%
1473	DIXONVILLE-MERIDIAN	32,253,410	8,706	
1474	GRIZZLY-CAPTAIN JACK NO 1	20,239,751	260,490	
1475	GRIZZLY-CAPTAIN JACK NO 1 ML KLAMATH CO	942,373	0	
1476	GRIZZLY-CAPTAIN JACK NO 1 ML LAKE CO	1,106,264	0	
1477	GRIZZLY-SUMMER LAKE NO 1	18,828,765	62,221	57%

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1478	GRIZZLY-SUMMER LAKE NO 1 (CROOK CO)	143,465	0	57%
1479	GRIZZLY-SUMMER LAKE NO 1 (DESCHUTES CO)	169,530	0	57%
1480	GRIZZLY-SUMMER LAKE NO 1 (LAKE CO)	339,092	0	57%
1481	JOHN DAY-BIG EDDY NO 1	2,008,149	10,384	
1482	JOHN DAY-GRIZZLY NO 1	10,719,232	190,806	
1483	JOHN DAY-GRIZZLY NO 1 (JEFFERSON CO)	388,527	0	
1484	JOHN DAY-GRIZZLY NO 1 (SHERMAN CO)	549,297	0	
1485	JOHN DAY-GRIZZLY NO 1 (WASCO CO)	401,925	0	
1486	JOHN DAY-GRIZZLY NO 2	9,110,097	114,896	
1487	JOHN DAY-GRIZZLY NO 2 ML JEFFERSON CO	384,011	0	
1488	JOHN DAY-GRIZZLY NO 2 ML SHERMAN CO	576,018	0	
1489	JOHN DAY-GRIZZLY NO 2 ML WASCO CO	411,442	0	
1490	MARION-ALVEY NO 1	4,328,755	54,579	50%
1491	SLATT-JOHN DAY NO 1	361,130	2,101	7%
1492	Subtotal Lines	197,767,951	1,361,686	
1493				
1494	Substations	Investment (\$)	O&M (\$)	Multi %
1495	ALVEY SUBSTATION	8,054,710	262,008	27%
1496	BAKEOVEN COMPENSATION STATION	19,514,345	31,632	
1497	BIG EDDY 500 KV SWITCHYARD	10,911,415	182,237	
1498	BIG EDDY SUBSTATION	60,378,821	1,786,259	81%
1499	BUCKLEY SUBSTATION	5,864,248	170,720	64%
1500	CAPTAIN JACK SUBSTATION	37,757,361	385,945	
1501	CELILO DC CONVERTER STATION	294,629,056	10,324,583	
1502	CHIEF JOSEPH SUBSTATION	1,062,139	64,544	3%
1503	DIXONVILLE SUBSTATION	7,683,042	0	
1504	FORT ROCK COMPENSATION STATION	15,955,175	200,104	
1505	GRIZZLY SUBSTATION	31,359,382	956,975	
1506	JOHN DAY SUBSTATION	10,534,205	243,143	31%
1507	MALIN SUBSTATION	19,740,302	830,766	
1508	MARION SUBSTATION	2,791,795	108,919	8%
1509	MERIDIAN SUBSTATION(PACIFICORP)	7,458,872	0	
1510	SAND SPRING COMPENSATION STATION	17,102,457	286,747	
1511	SLATT SUBSTATION	3,178,411	57,358	11%
1512	SUMMER LAKE SUBSTATION	3,008,234	168,127	57%
1513	SYCAN COMPENSATION STATION	14,428,469	276,041	
1514	SYLMAR DC CONVERTER STATION	2,784	0	
1515	Subtotal Subs	571,415,225	16,336,108	
1516	Total Southern Intertie	769,183,177	17,697,794	
1517				
1518	<u>Eastern Intertie Facilities</u>			
1519	Transmission Lines	Investment (\$)	O&M (\$)	Multi %
1520	BROADVIEW-GARRISON NO 1	47,280,913	160,644	
1521	BROADVIEW-GARRISON NO 2	46,990,310	76,180	
1522	Subtotal Lines	94,271,222	236,823	
1523				
1524	Substations	Investment (\$)	O&M (\$)	Multi %
1525	COLSTRIP SUBSTATION	43,099	4,234	
1526	GARRISON SUBSTATION	24,089,306	484,589	34%
1527	Subtotal Subs	24,132,405	488,823	
1528	Total Eastern Intertie	118,403,627	725,647	
1529				
1530	<u>Utility Delivery Facilities</u>			
1531	Transmission Lines	Investment (\$)	O&M (\$)	Multi %
1532	ALBANY-BUREAU OF MINES NO 1	23,660	1,742	
1533	HOOD RIVER-COOP SERVICE NO 1	23,808	2,482	
1534	Subtotal Lines	47,468	4,224	
1535				
1536	Substations	Investment (\$)	O&M (\$)	Multi %
1537	ACTON SUBSTATION	163,592	38,023	
1538	ALBANY SUBSTATION	1,527,024	42,713	12%
1539	ALDERWOOD SUBSTATION	668,497	21,791	
1540	BANDON SUBSTATION	1,144,260	56,721	25%
1541	BONNERS FERRY SUBSTATION	811,745	43,157	36%
1542	BURBANK SUBSTATION	619,504	46,432	
1543	BURNT WOODS SUBSTATION	319,577	61,169	
1544	CASCADE LOCKS SUBSTATION	386,614	47,145	
1545	DAVIS CREEK SUBSTATION	545,221	17,684	
1546	DAYTON SUBSTATION(BPA & COLUMBIA REA)	387,531	18,467	
1547	DIXIE SUBSTATION	358,407	38,093	
1548	DRAIN SUBSTATION	252,168	14,022	9%
1549	EAGLE LAKE SUBSTATION	359,208	41,774	

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2	BP14 Rate Case Initial Proposal Segmentation Details			
1550	EAST GRANGEVILLE SUBSTATION	683,793	56,275	
1551	GARDINER SUBSTATION	744,369	65,214	
1552	GLADE SUBSTATION	497,771	37,672	
1553	HARRISBURG SUBSTATION	186,326	49,214	
1554	HOOD RIVER SUBSTATION	462,777	54,959	51%
1555	IONE SUBSTATION	285,241	16,457	36%
1556	LACLEDE SUBSTATION	31,715	30,408	
1557	LANGLOIS SUBSTATION	964,862	48,255	
1558	LYNCH CREEK SUBSTATION	1,271,810	73,804	
1559	MAPLETON SUBSTATION	183,012	27,415	32%
1560	MINIDOKA SUBSTATION	386,140	25,105	
1561	MONMOUTH SUBSTATION	1,242,734	131,160	
1562	MOUNTAIN AVENUE SUBSTATION	2,098,603	55,361	
1563	MOYIE SUBSTATION	65,707	19,247	
1564	NECANICUM SUBSTATION	127,264	16,135	
1565	NORTH BENCH SUBSTATION	527,396	22,716	
1566	NORTH BUTTE SUBSTATION	168,857	11,916	
1567	NORWAY SUBSTATION	327,341	80,397	
1568	PARKDALE SUBSTATION	604,963	30,754	49%
1569	PORT ORFORD SUBSTATION	407,963	42,833	91%
1570	POTLATCH SUBSTATION(BPA)	186,779	12,417	17%
1571	REEDSPORT SUBSTATION (BPA)	477,413	26,538	20%
1572	RINGOLD SUBSTATION	386,634	58,609	
1573	SANDPOINT SUBSTATION(BPA)	242,880	36,265	23%
1574	SCOOTENEY SUBSTATION	233,125	17,462	23%
1575	SELLE SUBSTATION	565,619	35,888	
1576	STATELINE SUBSTATION	141,727	101,169	
1577	STEILACOOM SUBSTATION	929,261	24,120	
1578	SUN HARBOR SUBSTATION	1,420,980	44,668	
1579	SURPRISE LAKE SUBSTATION	760,077	27,694	
1580	SWAN VALLEY SUBSTATION	456,391	12,469	8%
1581	TROY SUBSTATION	845,855	73,274	88%
1582	TUMBLE CREEK SUBSTATION	959,049	50,198	
1583	TWO MILE ROAD SUBSTATION	1,517,678	59,332	
1584	WALTON SUBSTATION	321,529	28,635	94%
1585	WINTHROP SUBSTATION	361,348	49,362	24%
1586	YAAK SUBSTATION	375,561	65,735	
1587	Subtotal Subs	28,993,898	2,106,323	
1588	Total Utility Delivery	29,952,947	2,156,522	
1589				
1590	<u>DSI Delivery Facilities</u>			
1591	Transmission Lines	Investment (\$)	O&M (\$)	Multi %
1592	None			
1593	Subtotal Lines	0	0	
1594				
1595	Substations	Investment (\$)	O&M (\$)	Multi %
1596	CONKELLEY SUBSTATION	6,258,285	320,586	55%
1597	INTALCO SUBSTATION	16,233,070	734,620	96%
1598	TRENTWOOD SUBSTATION	3,518,591	119,234	51%
1599	Subtotal Subs	26,009,947	1,174,440	
1600	Total DSI Delivery	26,009,947	1,174,440	
1601				
1602	<u>Unsegmented Facilities (segmented pro-rata)</u>			
1603	Transmission Lines (allocated according to direct line segmentation)	Investment (\$)	O&M (\$)	Multi %
1604	BALD MOUNTAIN-CONDIT FIBER SYSTEM	6,914	0	
1605	BELLINGHAM-CUSTER FIBER SYSTEM	128,524	0	
1606	BELL-NOXON FIBER SYSTEM	44,711	0	
1607	BPA SYSTEM-LINES	6,107,099	792,953	
1608	COVINGTON-BELL FIBER SYSTEM	80,126	0	
1609	COVINGTON-MAPLE VALLEY FIBER SYSTEM	17,342	0	
1610	FIDALGO-BELLINGHAM FIBER SYSTEM (BLACK ROCK CABLE INC)	360,930	0	
1611	FRANKLIN-MUNRO FIBER SYSTEM	185,538	0	
1612	GRAND COULEE 115KV-GRAND COULEE RS FIBER SEG	16,980	0	
1613	KEELER-ALVEY FIBER SYSTEM	1,018,867	0	
1614	KEELER-COVINGTON FIBER SYSTEM	14,035	0	
1615	Miscellaneous (Inactive, Retired in Place)	621,940	975	
1616	NOXON-TAFT FIBER SYSTEM	357,479	0	
1617	PEARL-TROUTDALE FIBER SYSTEM	113,714	0	
1618	REEDSPORT-TAHKENITCH FIBER SYSTEM	24,936	88,392	
1619	ROSS-FRANKLIN FIBER SYSTEM	85,068	0	
1620	ROSS-MALIN FIBER SYSTEM	4,670,521	0	
1621	STEVENSVILLE TAP TO MILLER CREEK NO 4-HAMILTON HEIGHTS	2,052	18,322	
1622	TUMBLE CREEK-HALL RIDGE NO.1	610,574	4,166	
1623	VANTAGE-HANFORD NO 1	0	63,221	

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1624	Subtotal Lines	14,467,349	968,030	
1625				
1626	Substations (allocated according to direct sub segmentation)	Investment (\$)	O&M (\$)	Multi %
1627	ADDY SUBSTATION	3,058,117	98,469	30%
1628	ALCOA SUBSTATION	1,075,016	72,542	12%
1629	Miscellaneous (Inactive, Retired in Place)	516,905	0	
1630	BPA SYSTEM-METERS	70,427	0	
1631	ROSS HARMONY TRAINING SUBSTATION	2,847,803	0	
1632	SYSTEM WIDE	3,680,597	17,768,951	
1633	TACOMA SUBSTATION	1,410,993	80,551	8%
1634	VALHALLA SUBSTATION	317,754	26,272	8%
1635	Subtotal Subs	12,977,612	18,046,786	
1636				
1637	Other Locations (allocated according to direct sub segmentation)	Investment (\$)		
1638	ALVEY MAINTENANCE HEADQUARTERS	4,978,877		
1639	AUGSPURGER MOUNTAIN RADIO STATION	11,893		
1640	BALD MOUNTAIN RADIO STATION	130,284		
1641	BELL MAINTENANCE HEADQUARTERS	86,241		
1642	BIDDLE BUTTE RADIO STATION	163,480		
1643	BLUE RIDGE RADIO STATION	27,535		
1644	BLYN RADIO STATION	49,179		
1645	BPA SYSTEM	14,820,814		
1646	BPA SYSTEM-MICROWAVE & RADIO STATIONS	182,612		
1647	BPA SYSTEM-NON ELECTRIC PLANT& MISC	4,919,823		
1648	BURLEY MAINTENANCE HEADQUARTERS	6,969		
1649	CAPE BLANCO RADIO STATION (BPA)	58,688		
1650	CHEHALIS MAINTENANCE HEADQUARTERS	88,062		
1651	COVINGTON MAINTENANCE HEADQUARTERS	15,113		
1652	CULDESAC RADIO STATION	6,995		
1653	DEL RIO RADIO STATION	13,084		
1654	DITTMER BPA SYSTEM CONTROL CENTER	14,524,478		
1655	EUGENE C. STARR COMPLEX	9,922,339		
1656	GRAND COULEE RADIO STATION	47,372		
1657	GRANITE MOUNTAIN RADIO STATION	144,812		
1658	GREEN MOUNTAIN PASSIVE REPEATER SITE	3,007		
1659	HORSE ROCK RADIO STATION	(2,444)		
1660	KALISPELL MAINTENANCE HEADQUARTERS	29,664		
1661	KENNEWICK RADIO STATION	49,374		
1662	LAKESIDE RADIO STATION	91,184		
1663	LEWISTON MAINTENANCE HEADQUARTERS	59,008		
1664	LONGVIEW ANNEX I	819,953		
1665	LONGVIEW MAINTENANCE HEADQUARTERS	6,038,256		
1666	LOWELL BUTTE RADIO STATION	7,559		
1667	MALAGA RADIO STATION	17,384		
1668	MALIN MAINTENANCE HEADQUARTERS	398,113		
1669	MARYS PEAK RADIO STATION	5,002		
1670	MEGLER RADIO STATION	11,556		
1671	MILLER PEAK RADIO STATION	117,099		
1672	Miscellaneous (Inactive, Retired in Place)	76,572		
1673	MT. HEBO RADIO STATION	12,244		
1674	MUNRO BPA SYSTEM CONTROL CENTER	2,263,902		
1675	NASELLE RIDGE RADIO STATION	295,505		
1676	NORTH BEND MAINTENANCE HEADQUARTERS	723,564		
1677	NORTH BONNEVILLE ANNEX	29,495		
1678	ODELL BUTTE RADIO STATION	92,507		
1679	OLYMPIA MAINTENANCE HEADQUARTERS	166,376		
1680	OSTRANDER PASSIVE REPEATER SITE	25,022		
1681	PASCO MAINTENANCE HEADQUARTERS	89,312		
1682	REDMOND MAINTENANCE HEADQUARTERS	247,649		
1683	ROCKDALE PASSIVE REPEATER N1 SITE	85,587		
1684	ROCKDALE RADIO STATION	259,336		
1685	ROCKY RIDGE RADIO STATION	114,415		
1686	ROOSEVELT RADIO STATION	13,534		
1687	ROSS AMPERE BUILDING	60,525		
1688	ROSS COMPLEX	24,314,446		
1689	ROSS FOG TEST BUILDING	67,848		
1690	ROSS HEATLINE	5,254,267		
1691	ROSS MAINTENANCE HEADQUARTERS	12,095		
1692	ROSS TOOLS AND EQUIPMENT BUILDING	676,726		
1693	SCHULTZ MAINTENANCE HEADQUARTERS	1,377,094		
1694	SEATTLE RADIO STATION	3,939		
1695	SICKLER MAINTENANCE HEADQUARTERS	50,012		
1696	SNOHOMISH MAINTENANCE HEADQUARTERS	58,551		
1697	SOUTH MOUNTAIN RADIO STATION	2,770		
1698	SPOKANE HANGAR	75,378		
1699	SQUAK MOUNTAIN RADIO STATION	4,272		

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2	BP14 Rate Case Initial Proposal Segmentation Details			
1700	TACOMA PUBLIC UTILITIES DISPATCH CENTER	36,618		
1701	WALKER MOUNTAIN RADIO STATION	609,455		
1702	Subtotal Other	94,942,378		
1703				
1704	Emergency Stock (allocated according to direct sub segmentation)	Investment (\$)		
1705	ROSS WAREHOUSE	11,226,257		
1706	Subtotal Emergency Stock	11,226,257		
1707				
1708	<u>Depreciable Land</u>			
1709	Substations (segmented to Integrated Network)	Investment (\$)		
1710	NOXON CONSTRUCTION SUBSTATION	1		
1711	OKANOGAN SUBSTATION	14,156		
1712	SIFTON SUBSTATION	12,810		
1713	Subtotal Subs	26,967		
1714				
1715	Transmission Lines (segmented to Integrated Network)	Investment (\$)		
1716	ALBANY-BURNT WOODS NO 1	392,083		
1717	ASHE-SLATT NO 1	19,806		
1718	BELL-ADDY NO 1	5,046		
1719	BELL-BOUNDARY NO 3	5,046		
1720	BELL-LANCASTER NO 1	8,276		
1721	BIG EDDY-CHENOWETH NO 1	387,831		
1722	BIG EDDY-CHENOWETH NO 2	387,596		
1723	BIG EDDY-SPRING CREEK NO 1	391,887		
1724	CHEHALIS-OLYMPIA NO 1	793		
1725	CHEHALIS-RAYMOND NO 1	47,011		
1726	CHIEF JOSEPH-EAST OMAK NO 1	10,724		
1727	CHIEF JOSEPH-MONROE NO 1	110,487		
1728	CHIEF JOSEPH-SNOHOMISH NO 3	31,581		
1729	COLUMBIA-ELLENSBURG NO 1	181,965		
1730	DE MOSS-FOSSIL NO 1	320		
1731	DWORSHAK PH-OROFINO NO 1	400		
1732	FAIRVIEW-BANDON NO 2	1,602		
1733	FIDALGO-LOPEZ ISLAND NO 5	63,802		
1734	FLATHEAD-HOT SPRINGS NO 1	6,007,064		
1735	FRANKLIN-BADGER CANYON NO 1	1,432		
1736	GARRISON-ANACONDA NO 1	1,524		
1737	GOSHEN-DRUMMOND NO 1	3,924		
1738	GRAND COULEE-BELL NO 5	2,114,751		
1739	GRAND COULEE-HANFORD NO 1	14,375		
1740	GRAND COULEE-OKANOGAN NO 2	470		
1741	HARVALUM-BIG EDDY NO 1	19,142,567		
1742	HORSE HEAVEN-HARVALUM NO 1	387,596		
1743	HOT SPRINGS-RATTLESNAKE NO 1	6,007,072		
1744	HUNGRY HORSE-CONKELLEY NO 1	6,043		
1745	KEELER-OREGON CITY NO 2	8,729		
1746	KELLER TAP TO GRAND COULEE-OKANOGAN NO 2	3,200		
1747	KLONDIKE SCHOOLHOUSE-JOHN DAY NO 1	657,883		
1748	LANCASTER-NOXON NO 1	82,527		
1749	LIBBY-BONNERS FERRY NO 1	5,851		
1750	LOWER MONUMENTAL-MCNARY NO 1	1,071		
1751	MCNARY-ROSS NO 1	387,596		
1752	OLYMPIA-SATSOP NO 3	27,986		
1753	OSTRANDER-PEARL NO 1	45,358		
1754	PAUL-ALLSTON NO 2	236		
1755	RAVER-COVINGTON NO 2	387,596		
1756	RAYMOND-COSMOPOLIS NO 1	36,335		
1757	ROCKY REACH-MAPLE VALLEY NO 1	216,568		
1758	ROSS-LEXINGTON NO 1	49,260		
1759	ROUNDUP-LAGRANDE NO 1	645,809		
1760	SANTIAM-TOLEDO NO 1	78,029		
1761	SCHULTZ-WAUTOMA NO 1	2,277,742		
1762	SPIRIT TAP TO COLVILLE-BOUNDARY NO 1	24,206		
1763	SWAN VALLEY-TETON NO 1	54,679		
1764	TAFT-BELL NO 1	133,069		
1765	TUCANNON RIVER-NORTH LEWISTON NO 1	862,629		
1766	WALLA WALLA-PENDLETON NO 1	123,691		
1767	WALLA WALLA-TUCANNON RIVER NO. 1	1,340		

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1768	WAUTOMA-OSTRANDER NO 1	1,747		
1769	WAUTOMA-ROCK CREEK NO 1	391,431		
1770	Subtotal Lines segmented to Integrated Network	42,237,644		
1771				
1772	Transmission Lines (segmented to Generation Integration)	Investment (\$)		
1773	ANDERSON RANCH-MOUNTAIN HOME NO 1	60,166		
1774	DETROIT-SANTIAM NO 1	677		
1775	Subtotal Lines segmented to Integrated Network	60,843		
1776				
1777	Facilities segmented pro-rata according to segmented lines and subs	Investment (\$)		
1778	COVINGTON-MAPLE VALLEY FIBER SYSTEM	23,437		
1779	HAYSTACK BUTTE RADIO STATION	387,596		
1780	HOT SPRINGS-GARRISON FIBER SYSTEM	58,561		
1781	Miscellaneous (Inactive, Retired in Place)	195		
1782	ROSS-FRANKLIN FIBER SYSTEM	97,757		
1783	Subtotal segmented pro-rata	567,546		
1784				
1785	Facilities allocated to general plant	Investment (\$)		
1786	LA PINE SUBSTATION	18,619		
1787	OLYMPIA-GRAND COULEE NO 1	13,309		
1788	SANTIAM-TOLEDO NO 1	93		
1789	APPLEGATE BUTTE RADIO STATION	49,780		
1790	BOISTFORT PEAK RADIO STATION(WEYERHOUSER)	9,081		
1791	CAPITOL PEAK RADIO STATION(BPA)	1,916		
1792	DEAD INDIAN MOUNTAIN RADIO STATION	72,672		
1793	ELLIS RADIO STATION	6,824		
1794	HAYSTACK BUTTE RADIO STATION	750		
1795	SICKLER PASSIVE REPEATER SITE	913		
1796	CAPE BLANCO RADIO STATION (BPA)	118,992		
1797	SEVEN MILE HILL METEOROLOGICAL TOWER	15,105		
1798	Subtotal general plant	308,054		
1799				
1800	Ancillary Service Facilities			
1801	Communication and Control Equipment ***	Investment (\$)		
1802	ABERDEEN SUBSTATION	124,433		
1803	ADAIR SUBSTATION(BPA)	2,942		
1804	ADDY SUBSTATION	276,177		
1805	ADEL RADIO STATION	4,142		
1806	ALBANY SUBSTATION	19,130		
1807	ALBENI FALLS SUBSTATION	91,974		
1808	ALCOA SUBSTATION	57,705		
1809	ALFALFA SUBSTATION	5,205		
1810	ALLSTON SUBSTATION	265,594		
1811	ALVEY SUBSTATION	1,101,350		
1812	ANACONDA SUBSTATION	164,488		
1813	ASHE SUBSTATION	241,008		
1814	BANDON SUBSTATION	65,204		
1815	BEAVER SUBSTATION (PGE)	347,008		
1816	BELL SUBSTATION	766,600		
1817	BELLINGHAM SUBSTATION(BPA)	21,653		
1818	BENTON SUBSTATION	18,196		
1819	BETTAS ROAD SUBSTATION	213,160		
1820	BIDDLE BUTTE RADIO STATION	19,866		
1821	BIG EDDY 500 KV SWITCHYARD	345,912		
1822	BIG EDDY SUBSTATION	1,412,420		
1823	BOARDMAN SUBSTATION	143,981		
1824	BONNERS FERRY SUBSTATION	157,414		
1825	BONNEVILLE BUILDING PORTLAND	92,338		
1826	BONNEVILLE POWERHOUSE #1	310,681		
1827	BOUNDARY SUBSTATION	61,874		
1828	BPA HEADQUARTERS BUILDING	6,225		
1829	BPA SYSTEM	5,384,628		
1830	BPA SYSTEM-NON ELECTRIC PLANT& MISC	10,655,445		
1831	BRASADA SUBSTATION (CENTRAL ELECTRIC COOPERATIVE)	187,017		
1832	BRIDGE SUBSTATION	34,676		
1833	BUCK BUTTE RADIO STATION	8,923		
1834	BUCKLEY SUBSTATION	44,620		
1835	CALPINE SUBSTATION	170,566		
1836	CAPTAIN JACK SUBSTATION	160,268		
1837	CARDWELL SUBSTATION	91,579		
1838	CARLTON SUBSTATION	143,120		
1839	CASCADE STEEL SUBSTATION	7,187		

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2	BP14 Rate Case Initial Proposal Segmentation Details			
1840	CELILO DC CONVERTER STATION	8,717,330		
1841	CHEHALIS RADIO STATION	2,057		
1842	CHEHALIS SUBSTATION	328,874		
1843	CHEMAWA SUBSTATION	256,993		
1844	CHENOWETH SUBSTATION	30,194		
1845	CHIEF JOSEPH SUBSTATION	79,485		
1846	COLUMBIA FALLS ALUMINUM COMPANY SUBSTATION	19,459		
1847	COLUMBIA FALLS SUBSTATION - 230 KV YARD	385,522		
1848	COLUMBIA SUBSTATION	466,386		
1849	COLVILLE SUBSTATION	11,883		
1850	CONDON SUBSTATION	29,512		
1851	CONDON WIND SUBSTATION(SEAWEST)	106,380		
1852	CONKELLEY SUBSTATION	130,294		
1853	CONNELL SUBSTATION	14,474		
1854	COSMOPOLIS SUBSTATION	69,807		
1855	COVINGTON SUBSTATION	175,978		
1856	COWLITZ SUBSTATION(BPA)	177,515		
1857	COYOTE SPRINGS SUBSTATION	22,177		
1858	CRESTON SUBSTATION(BPA)	69,343		
1859	CULDESAC RADIO STATION	533		
1860	CUSICK SUBSTATION	74,316		
1861	CUSTER SUBSTATION	357,011		
1862	DE MOSS SUBSTATION(BPA)	509,045		
1863	DEER PARK SUBSTATION	3,886		
1864	DITTMER BPA SYSTEM CONTROL CENTER	90,848,139		
1865	DIXON SUBSTATION	45,323		
1866	DRAIN SUBSTATION	22,237		
1867	DRISCOLL SUBSTATION	46,177		
1868	DRUMMOND SUBSTATION	230,117		
1869	DWORSHAK POWERHOUSE	132,704		
1870	DWORSHAK SUBSTATION	131,479		
1871	EAST OMAK SUBSTATION	164,853		
1872	EASTERN CONTROL CENTER	943,419		
1873	EASTSIDE SYSTEM CONTROL CENTER(PSE)	8,768		
1874	ECHO LAKE SUBSTATION	103,378		
1875	EUGENE C. STARR COMPLEX	31,743		
1876	EUGENE SUBSTATION	75,533		
1877	FAIRMOUNT SUBSTATION	66,191		
1878	FAIRVIEW SUBSTATION(BPA)	214,254		
1879	FIDALGO SUBSTATION	6,872		
1880	FLATHEAD SUBSTATION(BPA & FLATHEAD ELEC)	292,381		
1881	FOREST GROVE SUBSTATION	112,995		
1882	FORT ROCK COMPENSATION STATION	15,976		
1883	FRANKLIN SUBSTATION	247,785		
1884	FREEWATER SUBSTATION(BPA)	15,432		
1885	GARRISON SUBSTATION	1,883,604		
1886	GOSHEN SUBSTATION(PACIFICORP)	335		
1887	GOSHEN SUBSTATION(UTAH POWER & LIGHT)	231,030		
1888	GRAND COULEE 115 KV SWITCHYARD	870,162		
1889	GRAND COULEE 230 KV SWITCHYARD	709,551		
1890	GRAND COULEE 500 KV SWITCHYARD	147,351		
1891	GRAND COULEE RADIO STATION	208,028		
1892	GRAND COULEE SUBSTATION	211,505		
1893	GRANDVIEW SUBSTATION	58,702		
1894	GREEN PETER SUBSTATION	17,205		
1895	GRIZZLY SUBSTATION	30,430		
1896	HANFORD SUBSTATION	925,103		
1897	HAPPY CAMP RADIO STATION(PG&E)	44,805		
1898	HARNEY SUBSTATION(BPA)	142,960		
1899	HARVALUM SUBSTATION	87,669		
1900	HARVEY SUBSTATION	13,444		
1901	HATWAI SUBSTATION	63,305		
1902	HAY CANYON SUBSTATION (IBERDOLA)	52,792		
1903	HEYBURN SUBSTATION	14,446		
1904	HILLTOP SUBSTATION	30,653		
1905	HOLCOMB SUBSTATION	5,632		
1906	HOOD RIVER SUBSTATION	98,499		
1907	HORN BUTTE SUBSTATION (INVENERGY WIND)	21,766		
1908	HORSE HEAVEN SUBSTATION	135,366		
1909	HOT SPRINGS SUBSTATION	172,041		
1910	HUNGRY HORSE POWERHOUSE	558,955		
1911	INTALCO SUBSTATION	131,761		
1912	IONA BUTTE RADIO STATION	2,590		
1913	JOHN DAY SUBSTATION	534,771		
1914	JONES CANYON SUBSTATION	379,283		
1915	KALISPELL SUBSTATION(BPA)	31,178		
1916	KEELER SUBSTATION	97,010		
1917	KENNEWICK RADIO STATION	3,749		

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1	Appendix A			
2	BP14 Rate Case Initial Proposal Segmentation Details			
1918	KITSAP SUBSTATION	112,892		
1919	LA GRANDE SUBSTATION	69,987		
1920	LA PINE SUBSTATION	31,226		
1921	LANCASTER SUBSTATION(BPA)	181,691		
1922	LANE SUBSTATION	69,052		
1923	LEXINGTON SUBSTATION	427,143		
1924	LIBBY SUBSTATION(BPA)	30,624		
1925	LITTLE GOOSE SUBSTATION	352,029		
1926	LONGVIEW SUBSTATION	493,565		
1927	LOOKOUT POINT SUBSTATION	168,496		
1928	LOPEZ ISLAND SUBSTATION(BPA)	6,079		
1929	LOST RIVER SUBSTATION	9,581		
1930	LOWER GRANITE SUBSTATION	193,503		
1931	LOWER MONUMENTAL SUBSTATION	413,165		
1932	MACKS INN SUBSTATION	8,757		
1933	MALIN MAINTENANCE HEADQUARTERS	59,089		
1934	MALIN SUBSTATION	143,268		
1935	MAPLE VALLEY SUBSTATION	136,293		
1936	MARION SUBSTATION	63,214		
1937	MARTIN CREEK SUBSTATION	137,094		
1938	MAUPIN SUBSTATION	50,782		
1939	MCLOUGHLIN SUBSTATION	105,690		
1940	MCMINNVILLE SUBSTATION	10,910		
1941	MCNARY SUBSTATION	583,481		
1942	MIDWAY SUBSTATION(BPA)	24,691		
1943	MONMOUTH SUBSTATION	3,517		
1944	MONROE SUBSTATION	289,707		
1945	MOXEE SUBSTATION	39,656		
1946	MT. HEBO RADIO STATION	30,899		
1947	MUNRO BPA SYSTEM CONTROL CENTER	16,902,248		
1948	MURRAY SUBSTATION	22,071		
1949	NAPAVINE SUBSTATION	170,420		
1950	NASELLE SUBSTATION	273,939		
1951	NORTH BONNEVILLE SUBSTATION	241,495		
1952	NOXON CONSTRUCTION SUBSTATION	982		
1953	OLYMPIA SUBSTATION	62,273		
1954	OREGON CITY SUBSTATION	15,282		
1955	OSTRANDER PASSIVE REPEATER SITE	1,213		
1956	OSTRANDER SUBSTATION	19,385		
1957	PALISADES POWERHOUSE	31,408		
1958	PAUL SUBSTATION	160,293		
1959	PEARL SUBSTATION	298,759		
1960	PONDEROSA SUBSTATION(BPA)	3,987		
1961	PORT ANGELES SUBSTATION(BPA)	307,221		
1962	PORT ORFORD SUBSTATION	1,650		
1963	RAVER SUBSTATION	113,890		
1964	RAYMOND SUBSTATION	73,048		
1965	RED MOUNTAIN SUBSTATION	353,542		
1966	REDMOND SUBSTATION(BPA)	130,308		
1967	REEDSPORT SUBSTATION (BPA)	14,628		
1968	RICHLAND SUBSTATION	173,512		
1969	ROCK CREEK SUBSTATION	167,443		
1970	ROCKY REACH SWITCHYARD	10,008		
1971	ROGUE SUBSTATION	18,388		
1972	ROSS COMPLEX	11,052		
1973	ROSS SUBSTATION	72,916		
1974	ROUND VALLEY SUBSTATION	9,332		
1975	ROUNDUP SUBSTATION	103,350		
1976	SACAJAWEA SUBSTATION	17,136		
1977	SAND CREEK SUBSTATION	165,461		
1978	SAND DUNES SUBSTATION	7,208		
1979	SAND SPRING COMPENSATION STATION	1,473		
1980	SANDPOINT SUBSTATION(BPA)	14,513		
1981	SANTIAM SUBSTATION	59,281		
1982	SAPPHO SUBSTATION	4,868		
1983	SATSOP PARK SUBSTATION (GHPUD)	10,920		
1984	SATSOP SUBSTATION(BPA)	108,841		
1985	SCHULTZ SUBSTATION	137,683		
1986	SEDRO WOOLLEY SUBSTATION	25,481		
1987	SHANO SUBSTATION	4,255		
1988	SHELTON SUBSTATION	87,083		
1989	SICKLER SUBSTATION	181,871		
1990	SIFTON SUBSTATION	97,766		
1991	SILVER CREEK SUBSTATION	225,802		
1992	SLATT SUBSTATION	4,205		
1993	SNOHOMISH SUBSTATION	280,226		
1994	SNO-KING SUBSTATION	130,140		
1995	SOUTH TACOMA SUBSTATION	214,311		

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2	BP14 Rate Case Initial Proposal Segmentation Details			
1996	SPAR CANYON SUBSTATION	8,749		
1997	SPRING CREEK SUBSTATION	34,581		
1998	ST. JOHNS SUBSTATION	228,793		
1999	STEILACOOM SUBSTATION	2,911		
2000	SUMMER LAKE SUBSTATION	35,875		
2001	SWAN VALLEY RADIO STATION	8,904		
2002	SWAN VALLEY SUBSTATION	131,188		
2003	SYCAN COMPENSATION STATION	1,473		
2004	SYSTEM WIDE	819,368		
2005	TACOMA RADIO STATION	15,376		
2006	TACOMA SUBSTATION	83,665		
2007	TAFT SUBSTATION	3,007		
2008	TAHKENITCH SUBSTATION	143,824		
2009	TARGHEE SUBSTATION	12,526		
2010	TEAKEAN BUTTE RADIO STATION	66,706		
2011	TETON SUBSTATION	6,093		
2012	THE DALLES SUBSTATION	102,870		
2013	TILLAMOOK SUBSTATION	25,845		
2014	TINCUP SUBSTATION	147,498		
2015	TOLEDO SUBSTATION	299,940		
2016	TRENTWOOD SUBSTATION	122,039		
2017	TROUTDALE SUBSTATION(BPA)	59,688		
2018	TUCANNON RIVER SUBSTATION	209,349		
2019	UNITY SUBSTATION(BPA)	8,457		
2020	USK SUBSTATION(BPA)	5,650		
2021	VALHALLA SUBSTATION	701,577		
2022	VANSYCLE RIDGE WIND GENERATION FACILITY	68,676		
2023	VANTAGE SUBSTATION	544,206		
2024	WALLA WALLA SUBSTATION(BPA)	345,896		
2025	WARNER SUBSTATION	22,126		
2026	WAUTOMA SUBSTATION	292,418		
2027	WENDSON SUBSTATION	303,201		
2028	WEST PORTLAND RADIO STATION	148,357		
2029	WEYERHAEUSER INDUSTRIAL WAY WEYCO NO 1 SUBSTATION (COWLITZ)	8,630		
2030	WHITE BLUFFS SUBSTATION	180,060		
2031	WHITE CREEK SUBSTATION (KPUD)	43,376		
2032	WILLIS SUBSTATION (KPUD)	22,606		
2033	WINE COUNTRY SUBSTATION	162,189		
2034	Total Ancillary Service	168,150,943		
2035	*** Defined by FERC Account 353(1) Control, 391(2) Hardware, 391(3) Software, and 397(104,108) SCADA Communication			
2036				
2037	<u>General Plant Facilities</u>			
2038	General Plant	Investment (\$)		
2039	ABERDEEN SUBSTATION	243,760		
2040	ADDY SUBSTATION	42,118		
2041	ADEL RADIO STATION	69,634		
2042	ALBANY SUBSTATION	408,367		
2043	ALBANY-EUGENE NO 1	417,035		
2044	ALBENI FALLS RADIO STATION (USCE)	167,336		
2045	ALBENI FALLS SUBSTATION	3,992		
2046	ALBION BUTTE RADIO STATION	204,370		
2047	ALCOA SUBSTATION	285,724		
2048	ALDER METERING POINT	9,317		
2049	ALFALFA SUBSTATION	109,518		
2050	ALLSTON SUBSTATION	1,073,105		
2051	ALVEY MAINTENANCE HEADQUARTERS	844,251		
2052	ALVEY SUBSTATION	4,855,142		
2053	ANACONDA SUBSTATION	198,847		
2054	APPLEGATE BUTTE RADIO STATION	1,912,493		
2055	ARTONDALE SUBSTATION	36,209		
2056	ASHE MAINTENANCE HEADQUARTERS	2,409,638		
2057	ASHE SUBSTATION	3,645,384		
2058	ASHTON HILL RADIO STATION	155,791		
2059	AUGSPURGER MOUNTAIN RADIO STATION	375,425		
2060	BADGER CANYON SUBSTATION	671,301		
2061	BAKEOVEN COMPENSATION STATION	17,163		
2062	BALD MOUNTAIN RADIO STATION	1,373,383		
2063	BALD PEAK RADIO STATION	85,096		
2064	BANDON SUBSTATION	706,439		
2065	BEAVER SUBSTATION (PGE)	140,648		
2066	BELL MAINTENANCE HEADQUARTERS	3,894,785		
2067	BELL SUBSTATION	4,093,906		
2068	BELLINGHAM SUBSTATION(BPA)	458,476		
2069	BELLINGHAM-CUSTER FIBER SYSTEM	3,760,858		
2070	BELL-NOXON FIBER SYSTEM	3,981,955		
2071	BENNETT MOUNTAIN RADIO STATION	89,534		

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2	BP14 Rate Case Initial Proposal Segmentation Details			
2072	BENTON SUBSTATION	52,260		
2073	BENTON-FRANKLIN NO 1	15,180		
2074	BETTAS ROAD SUBSTATION	482,404		
2075	BEVERLY RADIO STATION	575,008		
2076	BIDDLE BUTTE RADIO STATION	32,158		
2077	BIG EDDY 500 KV SWITCHYARD	302,747		
2078	BIG EDDY SUBSTATION	3,002,422		
2079	BIG EDDY-TROUTDALE NO 1	63,155		
2080	BIRCH CREEK RADIO STATION	29,191		
2081	BLACK MOUNTAIN RADIO STATION	142,573		
2082	BLACKTAIL PEAK RADIO STATION	580,461		
2083	BLUE RIDGE RADIO STATION	441,312		
2084	BLYN RADIO STATION	314,745		
2085	BOARDMAN SUBSTATION	418,466		
2086	BOARDMAN-TOWER ROAD NO 1	(5,942)		
2087	BOISTFORT PEAK RADIO STATION(WEYERHOUSER)	55,063		
2088	BONNERS FERRY SUBSTATION	53,864		
2089	BONNEVILLE POWERHOUSE #1	3,513		
2090	BOUNDARY SUBSTATION	940,042		
2091	BPA HEADQUARTERS BUILDING	94,536		
2092	BPA SYSTEM	42,584,520		
2093	BPA SYSTEM-LINES	198,362		
2094	BPA SYSTEM-METERS	18,542		
2095	BPA SYSTEM-MICROWAVE &RADIO STATIONS	474,293		
2096	BPA SYSTEM-NON ELECTRIC PLANT& MISC	82,904,929		
2097	BRADFORD ISLAND RADIO STATION	101,781		
2098	BRASADA SUBSTATION (CENTRAL ELECTRIC COOPERATIVE)	456,814		
2099	BRIDGE SUBSTATION	17,011		
2100	BROADVIEW SUBSTATION	36,126		
2101	BROOKDALE SUBSTATION(ELMHURSTMUTUAL PWR & LIGHT)	43,634		
2102	BUCK BUTTE RADIO STATION	1,600,921		
2103	BUCKLEY SUBSTATION	1,201,140		
2104	BURLEY MAINTENANCE HEADQUARTERS	18,033		
2105	BURNS RADIO STATION	132,271		
2106	CABBAGE HILL RADIO STATION	84,401		
2107	CALPINE SUBSTATION	381,455		
2108	CAPE BLANCO RADIO STATION (BPA)	902,315		
2109	CAPE BLANCO RADIO STATION(US COAST GUARD)	94,791		
2110	CAPITOL PEAK RADIO STATION(BPA)	462,223		
2111	CAPTAIN JACK SUBSTATION	1,745,673		
2112	CARDWELL SUBSTATION	178,350		
2113	CARLTON SUBSTATION	396,407		
2114	CARLTON-SHERWOOD NO 1	556		
2115	CASCADE STEEL SUBSTATION	28,301		
2116	CELILO DC CONVERTER STATION	5,117,665		
2117	CELILO MAINTENANCE HEADQUARTERS	21,287		
2118	CENTRALIA SUBSTATION	31,477		
2119	CHEHALIS MAINTENANCE HEADQUARTERS	79,987		
2120	CHEHALIS RADIO STATION	128,615		
2121	CHEHALIS SUBSTATION	1,509,496		
2122	CHEMAWA MAINTENANCE HEADQUARTERS	14,724		
2123	CHEMAWA SUBSTATION	6,842,011		
2124	CHENOWETH SUBSTATION	252,909		
2125	CHIEF JOSEPH POWERHOUSE	508,107		
2126	CHIEF JOSEPH SUBSTATION	2,375,686		
2127	CLARK SUB	4,827		
2128	CLATSOP SUBSTATION	10,265		
2129	COBURG RADIO STATION	225,732		
2130	COBURG SUBSTATION	140,618		
2131	COLSTRIP SES	41,676		
2132	COLSTRIP SUBSTATION	247,062		
2133	COLUMBIA FALLS SUBSTATION -- 115 YARD	317,988		
2134	COLUMBIA FALLS SUBSTATION - 230 KV YARD	1,280,695		
2135	COLUMBIA FALLS-KALISPELL NO 1	31,810		
2136	COLUMBIA GENERATING STATION SUBSTATION (ENERGY NORTHWEST)	1,864,102		
2137	COLUMBIA GENERATING STATION-ASHE FIBER SYSTEM	57,154		
2138	COLUMBIA SUBSTATION	1,454,937		
2139	COLVILLE SUBSTATION	185,792		
2140	CONDON WIND SUBSTATION(SEAWEST)	17,366		
2141	CONKELLEY SUBSTATION	1,756,049		
2142	COSMOPOLIS SUBSTATION	430,668		
2143	COVINGTON MAINTENANCE HEADQUARTERS	750,168		
2144	COVINGTON SUBSTATION	3,440,650		
2145	COVINGTON-BELL FIBER SYSTEM	18,377,621		
2146	COVINGTON-BETTAS ROAD NO 1	402,607		
2147	COVINGTON-MAPLE VALLEY FIBER SYSTEM	2,941,491		
2148	COWLITZ SUBSTATION(BPA)	21,809		
2149	COYOTE HILLS RADIO STATION	80,652		

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2150	COYOTE SPRINGS SUBSTATION	425,029		
2151	CRESTON SUBSTATION(BPA)	337,151		
2152	CULDESAC RADIO STATION	40,284		
2153	CUSICK SUBSTATION	86,245		
2154	CUSTER MAINTENANCE HEADQUARTERS	724,085		
2155	CUSTER SUBSTATION	2,372,751		
2156	CUSTER-INGLEDOW NO 1	190,843		
2157	DAVENPORT RADIO STATION	85,991		
2158	DE MOSS SUBSTATION(BPA)	343,420		
2159	DEAD INDIAN MOUNTAIN RADIO STATION	15,372		
2160	DECATUR SUBSTATION	134,517		
2161	DEL RIO RADIO STATION	220,873		
2162	DEVILS MOUNTAIN RADIO STATION	548,505		
2163	DITTMER BPA SYSTEM CONTROL CENTER	33,674,612		
2164	DIXONVILLE SUBSTATION	53,012		
2165	DOUGLAS SWITCHYARD	68,042		
2166	DRAIN SUBSTATION	21,211		
2167	DRISCOLL SUBSTATION	14,285		
2168	DRISCOLL-NAELLE NO 1	274,886		
2169	DRUMMOND SUBSTATION	211,029		
2170	DWORSHAK POWERHOUSE	94,065		
2171	DWORSHAK SUBSTATION	496,541		
2172	EAST OMAK SUBSTATION	42,689		
2173	EASTERN CONTROL CENTER	1,951,295		
2174	EASTON RADIO STATION	310,876		
2175	EASTSIDE SYSTEM CONTROL CENTER(PSE)	14,423		
2176	ECHO LAKE SUBSTATION	1,425,544		
2177	ECHO LAKE-MONROE-SNOHOMISH FIBER SYSTEM	4,908,397		
2178	ELLENSBURG SUBSTATION	377,775		
2179	ELLENSBURG-MOXEE NO 1	254,038		
2180	ELLIS MOUNTAIN RADIO STATION	32,352		
2181	ELLIS RADIO STATION	556		
2182	EUGENE C. STARR COMPLEX	3,497,144		
2183	EUGENE SUBSTATION	342,268		
2184	EUGENE-ALDERWOOD NO 1	417,035		
2185	FAIRMOUNT SUBSTATION	16,010		
2186	FAIRVIEW SUBSTATION(BPA)	822,666		
2187	FIDALGO SUBSTATION	434,263		
2188	FIDALGO-LOPEZ ISLAND NO 5	95,100		
2189	FLATHEAD SUBSTATION(BPA & FLATHEAD ELEC)	1,182,863		
2190	FOLSOM CONTROL CENTER (CAL ISO)	3,416		
2191	FOREST GROVE SUBSTATION	106,629		
2192	FOREST GROVE-MCMINNVILLE NO 1	6,668		
2193	FORT ROCK COMPENSATION STATION	371,978		
2194	FORT ROCK SUBSTATION (MIDSTATE ELECTRIC COOP)	3,351		
2195	FOSTER CREEK RADIO STATION	48,736		
2196	FOSTER SUBSTATION	16,933		
2197	FOX MOUNTAIN RADIO STATION	558,142		
2198	FRANKLIN MAINTENANCE HEADQUARTERS	233,605		
2199	FRANKLIN SUBSTATION	1,823,201		
2200	FRANKLIN-MUNRO FIBER SYSTEM	16,440,087		
2201	FREDERICKSON GENERATING PLANT(FREDERICKSON POWER LP)	119,537		
2202	FRENCHMAN SPRINGS SUBSTATION	766		
2203	GARDINER RIDGE RADIO STATION(BPA)	23,654		
2204	GARDINER RIDGE RADIO STATION(CENTRAL LINCOLN PUD)	30,102		
2205	GARRISON MAINTENANCE HEADQUARTERS	158,654		
2206	GARRISON SUBSTATION	4,786,884		
2207	GIG HARBOR SUBSTATION	45,642		
2208	GOLDENDALE SUBSTATION(BPA)	11,710		
2209	GOODWIN PEAK RADIO STATION	390,889		
2210	GOSHEN SUBSTATION(UTAH POWER & LIGHT)	38,803		
2211	GRAND COULEE 115 KV SWITCHYARD	634,821		
2212	GRAND COULEE 115KV-GRAND COULEE RS FIBER SEG	226,774		
2213	GRAND COULEE 230 KV SWITCHYARD	991,364		
2214	GRAND COULEE 500 KV SWITCHYARD	1,217,762		
2215	GRAND COULEE MAINTENANCE BUILDING	629,567		
2216	GRAND COULEE PASSIVE REPEATERSITE	556		
2217	GRAND COULEE RADIO STATION	386,369		
2218	GRAND COULEE SUBSTATION	113,077		
2219	GRAND COULEE THIRD POWERHOUSE	162,390		
2220	GRAND COULEE-BELL NO 5	22,276		
2221	GRANDVIEW SUBSTATION	145,731		
2222	GRANITE MOUNTAIN RADIO STATION	185,927		
2223	GRASSY MOUNTAIN RADIO STATION	556		
2224	GRAZZINI SUBSTATION	67,759		
2225	GREEN MOUNTAIN PASSIVE REPEATER SITE	301,295		
2226	GREENBERRY SUBSTATION	645		
2227	GRIZZLY MOUNTAIN RADIO STATION	90,226		

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2228	GRIZZLY SUBSTATION	925,387		
2229	GROUSE PEAK RADIO STATION	375,503		
2230	HAAKENSEN SUBSTATION	24,422		
2231	HALL RIDGE RADIO STATION	392,006		
2232	HAMPTON BUTTE RADIO STATION	343,430		
2233	HANFORD SUBSTATION	756,710		
2234	HANFORD-WAUTOMA NO 1	1,770		
2235	HAPPY CAMP RADIO STATION(PG&E)	485,754		
2236	HAPPY CAMP RADIO STATION(TANC)	52,708		
2237	HAPPY VALLEY SUBSTATION	119,407		
2238	HARNEY SUBSTATION(BPA)	270,352		
2239	HARVALUM SUBSTATION	487,931		
2240	HARVEY SUBSTATION	142,362		
2241	HAT ROCK SUBSTATION	87,437		
2242	HATWAI SUBSTATION	1,297,841		
2243	HAUSER SUBSTATION(BPA)	9,889		
2244	HAUSER-NORTH BEND MAINTENANCE HQ FIBER SYSTEM	52,648		
2245	HAY MILL SUBSTATION (UNITED ELEC & CITY OF RUPERT)	36,669		
2246	HAYDEN SUBSTATION	4,128		

APPENDIX B-2

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
2	RPA NAME	PIS w/Totals				PIS (SUB)				PIS (LIN)				PIS (GP)			
3		FY 12	FY 13	FY 14	FY 15	FY 12	FY 13	FY 14	FY 15	FY 12	FY 13	FY 14	FY 15	FY 12	FY 13	FY 14	FY 15
4	West of McNary Reinforcements - Group I (WOMR I)	5,462	68			218	3	-	-	5,188	65	-	-	55	1	-	-
5	Line Relocations On Tribal Lands																
6	Seattle Puget Sound Area Reinforcement																
7	Raver 500/230 kV Transformer - PAR TFY130637																
8	Chief JO-Monroe/Monroe-Echo Lake 500kV RAS Addition			4,000												4,000	
9	Olympic Peninsula Reinforcement																
10	North of Fairmont Back-Tripping Safety Net Scheme - PAR TFY110104		999				999										
11	Port Angeles 230/115 kV Bus Development - PAR TFY130628				4,487				4,487								
12	Shelton-Fairmont #2 115 kV Line Tap for Mason PUD				195								195				
12	#1 Substation - PAR TFY130216																
13	New Additional Project Work																
14	Northern Intertie Reinforcement																
15	West of Cascades North Reinforcement																
16	Monroe 500 kV Shunt Capacitor Additon			3,681				3,681									
17	New 500kv Cross-Cascades line (Phase II)			5,097	1,000			510	100			4,587	900				
18	Portland/Vancouver Reinforcement																
19	Ostrander Line Swap - PAR TFY100111	415								415							
20	Forest Grove Loop Into Keeler - TFY100132	147				132				15							
21	Pearl Sub 500KV Bay No 6 Addition - PAR TFY100141	4,328				4,328											
22	N. Bonneville-Ross 230 KV #2 Line Swap - PAR TFY100146																
23	Ostrander 500/230 KV TX Bank - PAR TFY100193	5,152				5,152											
24	Ostrander 500 kV Breaker Addition- PAR TFY130014			1,696				1,696									
25	Keeler 230 kV Bus Sectionalizing Breaker Addition - PAR TFY110073		1,882				1,882										
26	Pearl-Sherwood 230 kV Line Re-termination - PAR TFY130013			1,095				986				110					
27	Pearl 500 kV substation Expansion - PAR TFY140613																
28	Northern Intertie Reinforcement																
29	Various NOS																
30	Monroe-Noveltty 230 kV Line Upgrade - PAR TFY140002																
31	Monroe-Snohomish 230 kV Line Upgrade - PAR TFY140003																
32	Olympia-South Tacoma 230 kV Line Upgrade																
33	Covington-Chehalis 230 KV Line Upgrade																
34	Big Eddy Knight - West of McNary Reinforcements - Group II (WOMR II)				145,194				14,519				116,155				14,519
35	Central Oregon Reinforcement																
36	Redmond 230/115kV Bank No.2 (project includes Redmond 230 kV & 115 kV bus sectionalizing breakers)																
37	L0331,L0332,L0335 Ponderosa New 230/115 Substation			19,425	911			19,425	911								
38	Ponderosa 500/230 kV Transformer Addition		28,302				28,302										
39	Northern Mid-Columbia Reinforcement																
40	Northern Mid-Columbia Project (Columbia Grid Recommendation) FY 13 - PAR TFY120013		661				198				463						
41	LAPINE 115KV SHUNT CAP ADDITION - TFY090213	17				17											
42	Montana-West of Hatwai																
43	Colstrip Upgrade-West																
44	I-5 Corridor Reinforcement																
45	Lower Mid-Columbia Area Reinforcement	899				450				450							
46	Salem/Albany/Euguen Area Reinforcement																
47	LEBANON SUB- SHUNT CAP ADDITIN - PAR TFY090166	1,203				1,203											
48	Alvey 500 kV Shunt Reactor Addition			10,651				10,651									
49	Central Ferry Lower Mon (Little Goose Area Reinforcement)				81,810				12,272				65,448				4,091
50	Ashe Sub New Bay - PAR TFY110201		5,582				5,582										
51	Tri-Cities Area Reinforcement																
52	White Bluffs 115 kV shunt Capacitor Additions - PAR TFY120024			1,457				1,457									
53	McNary-Badger Canyon Transfer Trip - PAR TFY120066																
54	Franklin 115 kV Shunt Capacitor Addition - PAR TFY110037			3,626				3,626									
55	McNary 230 kV Shunt Capacitors - PAR TFY120109			5,692				5,692									
56	McNary 230 KV Breaker Replcmnt Sec 2 & 3 - PAR TFY130403			940				940									
57	L0329 - City of Richland's new 115kV Dallas Road Substation - PAR TFY140418																
58	McNary 230 kV Substation Transformer No. 2 and CLR Addition- PAR TFY14061																
59	McNary Bay Addition, BUS TIE Add and BUS SECT BREAKER Add (I0316)																
60	Tucannon 115 kV Shunt Capacitor Addition - PAR TFY120069		2,073				2,073										
61	Network Open Season Additions																
62	Other Associated Gen Integration																
63	NERC Criteria Compliance		5,655	6,000	6,000		3,393	3,600	3,600		1,697	1,800	1,800		566	600	600
64	Additions & System Reactive Facilities		37	14,859	26,940		37	14,859	26,940								
65	Capital to Expense Adjustment																
66	Non-Wires Program																
67	Longview Area Reinforcement																
68	Longnview Sub 115kV Bus Sect BK - PAR TFY110066		1,869				1,869										

APPENDIX B-2

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
2	RPA NAME	PIS w/Totals				PIS (SUB)				PIS (LIN)				PIS (GP)			
3		FY 12	FY 13	FY 14	FY 15	FY 12	FY 13	FY 14	FY 15	FY 12	FY 13	FY 14	FY 15	FY 12	FY 13	FY 14	FY 15
69	Longview-Lexington 230 kV Line Re-termination - PAR TFY130009			1,267		-	-	1,140	-	-	-	127	-	-	-	-	-
70	CCPUD's Washington Way Sub - PAR TFY110165		628			-	628	-	-	-	-	-	-	-	-	-	-
71	CCPUD 115kV Line & Load L0320 request - PAR TFY130005			-		-	-	-	-	-	-	-	-	-	-	-	-
72	Kalispell/ Flathead Valley Reinforcement					-	-	-	-	-	-	-	-	-	-	-	-
73	Columbia Falls 230 kV Bus Sectionalizing Breaker Addition - PAR TFY110048		2,069			-	2,069	-	-	-	-	-	-	-	-	-	-
74	Columbia Falls 115 kV Bus Sectionalizing Breaker Addition - PAR TFY130015			2,430		-	-	2,430	-	-	-	-	-	-	-	-	-
75	Kalispell 115 kV Additional Capacitor Banks - PAF TFY130419				4,586	-	-	-	4,586	-	-	-	-	-	-	-	-
76	Southern Idaho/ Lower Valley Reinforcement					-	-	-	-	-	-	-	-	-	-	-	-
77	Caribu Sub - Add Sub (Hooper Springs) - PAR T00001641		12,761			-	3,190		-	-	9,571	-	-	-	-	-	-
78	Misc Substation Work	255	3,383	500		255	3,383	500	-	-	-	-	-	-	-	-	-
79	Hood River Area Reinforcement					-	-		-	-	-	-	-	-	-	-	-
80	Area and Customer Service Reactive Additions	1,945	2,115	9,524	11,306	1,945	2,115	9,524	11,306								
81	Security Enhancements	4,191	8,802	17,153	4,100	4,191	8,802	17,153	4,100	-	-	-	-	-	-	-	-
82	IT Projects	(2,856)	2,708	2,775	2,843	-	-	-	-	-	-	-	-	(2,856)	2,708	2,775	2,843
83	Misc Upgrades * Additions	7,498	14,548	14,721	16,995	7,498	14,548	14,721	16,995								
84	Celilo Upgrades - Various	2,261	662			1,945	569			204	60			113	33		
85	Control Centers	337	2,385	2,646	3,237	-	-	-	-	-	-	-	-	337	2,385	2,646	3,237
86	CC- Infrastructure Components	3,062	5,254	4,945	3,428	-	-	-	-	-	-	-	-	3,062	5,254	4,945	3,428
87	CC - System & Application	1,037	3,008	2,116	2,698	-	-	-	-	-	-	-	-	1,037	3,008	2,116	2,698
88	System Telecommunications (Fiber Optics)	14,096	40,171	52,449	41,966	-	-	-	-	-	-	-	-	14,096	40,171	52,449	41,966
89	Line Capacity & Line Switch Upgrades	299	1,300	1,300	1,100	299	1,300	1,300	1,100	-	-	-	-	-	-	-	-
90	Big Eddy Troutdale 230 kV - PAR TFY10019		2,995			-	-	-	-	-	2,995	-	-	-	-	-	-
91	Access Roads - Land Acquisition & Rebuilds	10,670	4,935	2,384	40,976	-	-	-	-	-	-	-	-	10,670	4,935	2,384	40,976
92	Land Rights - Tribal Renewals	962			10,443	-	-	-	-	-	-	-	-	962			10,443
93	Land Rights - Veg Mitigation		590		2,000	-	-	-	-	-	-	-	-		590		2,000
94	Land Rights - Access Roads	690	1,371		15,332	-	-	-	-	-	-	-	-	690	1,371		15,332
95	Misc Sub Additions	16,316	16,000	21,753	14,004	16,316	16,000	21,753	14,004	-	-	-	-	-	-	-	-
96	Transformer Spare Replacement - PAR TFY090242			-		-	-	-	-	-	-	-	-	-	-	-	-
97	Transformers Spare at each wind project - PAR TFY110222			-		-	-	-	-	-	-	-	-	-	-	-	-
98	Fauld Duty Disconnect Switch Upgrades - PAR TFY130418 and TFY130629					-	-	-	-	-	-	-	-	-	-	-	-
99	RAS Upgrades			11,878		-	-	-	-	-	-	-	-			11,878	
100	Synchrophasor			16,214		-	-	-	-	-	-	-	-	-		16,214	
101	Lines - Steel Hardware Replacement	5,411	21,371	25,496	12,625	-	-	-	-	5,411	21,371	25,496	12,625	-	-	-	-
102	Lines - Wood Pole Replacements	42,883	38,256	47,200	42,200	-	-	-	-	42,883	38,256	47,200	42,200	-	-	-	-
103	Misc. Replacements					-	-	-	-	-	-	-	-	-	-	-	-
104	Spacer Damper Replacements			29,493		-	-	-	-	-	-	29,493		-	-	-	-
105	Substation Replacements	15,991	28,023	23,843	24,192	15,991	28,023	23,843	24,192	-	-	-	-	-	-	-	-
106	SUB - Capacitors (Series & Shunt)	82				82				-	-	-	-	-	-	-	-
107	SUB DC - PWR Elect - Celilo Converter Station _ PAR TFY080243		315			-	315			-	-	-	-	-	-	-	-
108	SUB - Series - 3rd AC Tie Control Replacement			15,094		-	-	15,094		-	-	-	-	-	-	-	-
109	SVC				14,037	-	-	-	14,037	-	-	-	-	-	-	-	-
110	SUB AC - Bus & Structures	707	610	847	1,128	-	-	-	-	-	-	-	-	707	610	847	1,128
111	System Protection Replacements (All SPC)	9,882	27,369	45,864	28,082	9,882	27,369	45,864	28,082	-	-	-	-	-	-	-	-
112	Power System Control Replacements (All PSC)	5,708	9,160	18,477	27,065	5,708	9,160	18,477	27,065	-	-	-	-	-	-	-	-
113	TEAP Tools	2,186	2,000	2,000	2,000	-	-	-	-	-	-	-	-	2,186	2,000	2,000	2,000
114	TEAP Equipment	8,012	7,500	5,500	5,500	-	-	-	-	-	-	-	-	8,012	7,500	5,500	5,500
115	Misc. Facilities Replacements	5,700	27,950	31,690	25,848	-	-	-	-	-	-	-	-	5,700	27,950	31,690	25,848
116	PFIA & Generator Interconnection Projects	22,000	32,265	28,350	20,250	18,700	27,425	24,098	17,213	3,300	4,840	4,253	3,038	-	-	-	-
117	Line and Load Interconnection					-	-	-	-	-	-	-	-	-	-	-	-
118	COI Reinforcement					-	-	-	-	-	-	-	-	-	-	-	-
119	Radio Spectrum	4,575	1,296			-	-	-	-	-	-	-	-	4,575	1,296		
120	Total Environment (PP&A)	5,079	5,384	5,380	5,393	5,079	5,384	5,380	5,393								
121	TSD Program Indirect	41,519	45,619	46,075	46,996	20,759	22,809	23,037	23,498	12,456	13,686	13,822	14,099	8,304	9,124	9,215	9,399
122	TSD MS&A					-	-	-	-	-	-	-	-	-	-	-	-
123	Support Services Cap Distribution					-	-	-	-	-	-	-	-	-	-	-	-
124	AFUDC	29,595	33,776	37,273	31,229	14,798	16,888	18,637	15,615	8,879	10,133	11,182	9,369	5,919	6,755	7,455	6,246
125	Corporate Overhead - Updated 5/9/12	44,310	50,156	56,826	58,273	22,155	25,078	28,413	29,136	13,293	15,047	17,048	17,482	8,862	10,031	11,365	11,655
126	TOTALS:	322,025	503,863	661,682	786,368	157,101	259,394	338,485	299,150	92,492	118,181	155,117	283,309	72,432	126,288	168,080	203,909

Appendix C - Historical Operation and Maintenance (O&M) Expenses

	(A) Fiscal Years -->	(B) <u>2009</u>	(C) <u>2010</u>	(D) <u>2011</u>
1	<u>Total O&M by historical fiscal year by category</u>			
2	Table 1 - Total O&M assigned to facilities			
3	SUBSTATION OPERATIONS	19,167,809	20,238,600	21,286,376
4	HEAVY MOBILE EQUIPMENT MAINT	58,282	(79,059)	379,409
5	JOINT COST MAINTENANCE	141,635	96,508	58,410
6	NON-ELECTRIC MAINTENANCE	11,280,142	18,241,006	23,548,403
7	POWER SYSTEM CONTROL MAINT	10,270,560	11,578,547	11,957,956
8	ROW MAINTENANCE	7,003,356	7,965,378	10,386,243
9	SUBSTATION MAINTENANCE	25,522,118	23,809,402	25,521,841
10	SYSTEM MAINTENANCE MANAGEMENT	7,753,452	5,277,458	5,291,643
11	SYSTEM PROTECTION CONTRL MAINT	11,418,812	11,377,126	11,388,170
12	TECHNICAL TRAINING	2,465,761	2,587,595	2,530,457
13	TRANSMISSION LINE MAINTENANCE	21,982,859	21,075,730	22,921,056
14	VEGETATION MANAGEMENT	27,413,912	20,582,979	11,696,219
15	ENVIRONMENTAL ANALYSIS	66,825	47,557	21,372
16	POLLUTION PREVENTN & ABATEMENT	2,906,599	2,870,498	3,236,252
17	Total (assigned)	147,452,121	145,669,323	150,223,806
18	Table 2 - Total O&M directly identified with Ancillary Services			
19	CONTROL CENTER SUPPORT	11,400,420	11,088,350	14,753,404
20	INFORMATION TECHNOLOGY	4,572,020	5,333,553	6,768,154
21	POWER SYSTEM DISPATCHING	11,138,057	11,723,807	11,648,816
22	TECHNICAL OPERATIONS	5,241,705	4,557,317	4,724,968
23	SCHED-AFTER-THE-FACT	310,352	217,882	155,899
24	SCHED-MANAGE SPRVISION & ADMIN	237,381	0	(10,948)
25	SCHED-PRE-SCHEDULING	261,283	187,628	240,302
26	SCHED-REAL-TIME SCHEDULING	3,491,829	3,676,976	3,950,070
27	SCHED-RESERVATIONS	789,943	2,240,902	3,850,292
28	SCHED-TECHNICAL SUPPORT	1,564,134	1,806,571	1,226,234
29	Total (Ancillary Services)	39,007,125	40,832,988	47,307,189
30	Average over 3 fiscal years	42,382,434		
31	Table 3 - Total O&M identified as overhead expenses			
32	AIRCRAFT SERVICES	921,283	1,135,149	1,121,457
33	EXECUTIVE & ADMIN SERVICES	9,310,545	12,407,347	12,179,491
34	GENERAL ADMINISTRATIVE	6,452,872	5,339,338	10,191,414
35	LEGAL SUPPORT - EXPENSE	2,401,088	2,305,057	2,608,620
36	LOGISTICS SERVICES	3,756,348	4,119,706	3,532,420
37	MARKETING IT SUPPORT	22,171	0	0
38	MKTG BUSINESS STRAT & ASSESS	5,345,690	6,005,440	6,426,322
39	MKTG CONTRACT MANAGEMENT	3,556,413	3,880,283	4,058,129
40	MKTG INTERNAL OPERATIONS	0	0	1,734
41	MKTG TRANSMISSION BILLING	2,698,102	2,047,832	2,226,070
42	MKTG TRANSMISSION FINANCE	398,238	305,050	269,957
43	MKTG TRANSMISSION SALES	2,297,537	2,355,792	2,318,854
44	SECURITY ENHANCEMENTS EXPENSE	3,185,952	541,653	482,339
45	Total (overhead)	40,346,238	40,442,648	45,416,807
46	Average over 3 fiscal years	42,068,564		
47	Grand Total historical O&M	226,805,484	226,944,959	242,947,801

Appendix C - Historical Operation and Maintenance (O&M) Expenses

	(A) Fiscal Years -->	(B) <u>2009</u>	(C) <u>2010</u>	(D) <u>2011</u>
48	<u>Assignment of historical O&M to facilities</u>			
49	Table 4 - O&M by historical fiscal year by category directly identified with specific facilities			
50	HEAVY MOBILE EQUIPMENT MAINT	3,472	18,879	2,087
51	JOINT COST MAINTENANCE	141,635	93,815	57,923
52	NON-ELECTRIC MAINTENANCE	3,720,369	5,072,928	10,672,584
53	POWER SYSTEM CONTROL MAINT	2,973,735	3,560,940	3,571,227
54	SUBSTATION MAINTENANCE	16,393,038	14,151,672	15,732,151
55	SUBSTATION OPERATIONS	8,041,705	8,605,933	8,629,570
56	SYSTEM MAINTENANCE MANAGEMENT	33,151	9,437	8,650
57	SYSTEM PROTECTION CONTRL MAINT	5,054,562	5,041,413	4,839,906
58	TRANSMISSION LINE MAINTENANCE	6,783,854	6,249,361	6,574,846
59	POLLUTION PREVENTN & ABATEMENT	7,911	3,203	728
60	Total	43,153,432	42,807,582	50,089,671
61	Table 5 - O&M not directly identified with facilities (table 1 minus table 4)			
62	SUBSTATION OPERATIONS	11,126,104	11,632,667	12,656,806
63	HEAVY MOBILE EQUIPMENT MAINT	54,810	(97,938)	377,321
64	JOINT COST MAINTENANCE	0	2,693	488
65	NON-ELECTRIC MAINTENANCE	7,559,773	13,168,078	12,875,820
66	POWER SYSTEM CONTROL MAINT	7,296,824	8,017,608	8,386,729
67	ROW MAINTENANCE	7,003,356	7,965,378	10,386,243 ***
68	SUBSTATION MAINTENANCE	9,129,080	9,657,730	9,789,690
69	SYSTEM MAINTENANCE MANAGEMENT	7,720,301	5,268,020	5,282,993
70	SYSTEM PROTECTION CONTRL MAINT	6,364,249	6,335,713	6,548,263
71	TECHNICAL TRAINING	2,465,761	2,587,595	2,530,457 ***
72	TRANSMISSION LINE MAINTENANCE	15,199,005	14,826,369	16,346,210
73	VEGETATION MANAGEMENT	27,413,912	20,582,979	11,696,219 ***
74	ENVIRONMENTAL ANALYSIS	66,825	47,557	21,372 ***
75	POLLUTION PREVENTN & ABATEMENT	2,898,687	2,867,295	3,235,524
76	Total	104,298,689	102,861,741	100,134,135
77	*** Subtotal cat. with no direct facility	36,949,855	31,183,508	24,634,290
78	Transmission line assignment			
79	Table 6 - Directly identified with transmission lines			
80	NON-ELECTRIC MAINTENANCE	496	53	261
81	SUBSTATION MAINTENANCE	2,366	9,448	6,597
82	SUBSTATION OPERATIONS	6,906	4,422	6,694
83	SYSTEM PROTECTION CONTRL MAINT	0	1,079	0
84	TRANSMISSION LINE MAINTENANCE	6,783,854	6,249,361	6,574,846
85	Total	6,793,622	6,264,363	6,588,398
86	Table 7 - Assigned to transmission lines (table 5 times ratio of table 6 over table 4)			
87	SUBSTATION OPERATIONS	9,555	5,977	9,818
88	NON-ELECTRIC MAINTENANCE	1,008	137	315
89	SUBSTATION MAINTENANCE	1,317	6,448	4,105
90	SYSTEM PROTECTION CONTRL MAINT	0	1,356	0
91	TRANSMISSION LINE MAINTENANCE	15,199,005	14,826,369	16,346,210
92	Total	15,210,886	14,840,287	16,360,449
93	allocation of O&M with no direct facility identification			
94	(line 77 times line 85 over line 60)	5,816,996	4,563,323	3,240,199
95	Subtotal transmission line assignment	27,821,503	25,667,972	26,189,046
96	Line multiplier (line 95 over line 85)	4.095	4.097	3.975

Appendix C - Historical Operation and Maintenance (O&M) Expenses

	(A) Fiscal Years -->	(B) <u>2009</u>	(C) <u>2010</u>	(D) <u>2011</u>
97	Substation assignment			
98	Table 8 - Directly identified with substations			
99	HEAVY MOBILE EQUIPMENT MAINT	3,472	18,879	2,087
100	JOINT COST MAINTENANCE	141,635	93,815	57,923
101	NON-ELECTRIC MAINTENANCE	3,704,535	5,041,909	10,650,687
102	POWER SYSTEM CONTROL MAINT	2,955,214	3,530,739	3,550,121
103	SUBSTATION MAINTENANCE	16,334,773	14,101,400	15,613,029
104	SUBSTATION OPERATIONS	7,990,915	8,571,416	8,582,514
105	SYSTEM MAINTENANCE MANAGEMENT	33,151	9,437	8,650
106	SYSTEM PROTECTION CONTRL MAINT	4,871,131	4,906,062	4,700,400
107	POLLUTION PREVENTN & ABATEMENT	7,911	3,203	728
108	Total	36,042,738	36,276,860	43,166,140
109	Table 9 - Assigned to substations (table 5 times ratio of table 8 over table 4)			
110	HEAVY MOBILE EQUIPMENT MAINT	54,810	(97,938)	377,321
111	JOINT COST MAINTENANCE	0	2,693	488
112	NON-ELECTRIC MAINTENANCE	7,527,600	13,087,560	12,849,403
113	POWER SYSTEM CONTROL MAINT	7,251,378	7,949,610	8,337,165
114	SUBSTATION MAINTENANCE	9,096,633	9,623,422	9,715,563
115	SUBSTATION OPERATIONS	11,055,833	11,586,009	12,587,791
116	SYSTEM MAINTENANCE MANAGEMENT	7,720,301	5,268,020	5,282,993
117	SYSTEM PROTECTION CONTRL MAINT	6,133,289	6,165,612	6,359,515
118	POLLUTION PREVENTN & ABATEMENT	2,898,687	2,867,295	3,235,524
119	Total	51,738,532	56,452,283	58,745,764
120	allocation of O&M with no direct facility identification			
121	(line 77 times line 108 over line 60)	30,861,367	26,426,154	21,229,271
122	Subtotal substation assignment	118,642,637	119,155,296	123,141,175
123	Substation multiplier (line 122 over line 108)	3.292	3.285	2.853
124	Metering station assignment			
125	Table 10 - Directly identified with metering stations			
126	NON-ELECTRIC MAINTENANCE	15,337	30,966	21,635
127	POWER SYSTEM CONTROL MAINT	18,521	30,200	21,105
128	SUBSTATION MAINTENANCE	55,899	40,825	112,524
129	SUBSTATION OPERATIONS	43,885	30,096	40,362
130	SYSTEM PROTECTION CONTRL MAINT	183,431	134,272	139,507
131	Total	317,073	266,359	335,133
132	Table 11 - Assigned to metering stations (table 5 times ratio of table 10 over table 4)			
133	SUBSTATION OPERATIONS	60,716	40,680	59,198
134	NON-ELECTRIC MAINTENANCE	31,165	80,381	26,101
135	POWER SYSTEM CONTROL MAINT	45,446	67,998	49,564
136	SUBSTATION MAINTENANCE	31,129	27,860	70,021
137	SYSTEM PROTECTION CONTRL MAINT	230,960	168,745	188,749
138	Total	399,417	385,664	393,632
139	allocation of O&M with no direct facility identification			
140	(line 77 times line 131 over line 60)	271,492	194,031	164,820
141	Subtotal metering station assignment	987,981	846,054	893,584
142	Metering multiplier (line 141 over line 131)	3.116	3.176	2.666

