

BP-14 Final Rate Proposal

Transmission Segmentation Study Documentation

BP-14-FS-BPA-06A

July 2013



Table 1
BPA Investment Summary, through Sept. 30, 2012
(\$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	5,608,444	126,129	69,711	51,777
3 MASTER LEASE	257,501			
4 LEASED ASSETS	101,800			
5 CAPITAL LEASES	43,612			
6 EMERGENCY MINIMUM STOCK	11,896			
7 INTANGIBLES	9,559			
8 FEE LAND IN SERVICE	129,955		<u>Land Stations</u> 14,434	<u>Land Lines</u> 105,166
9 DEPRECIABLE FEE LAND	48,309	107	415	47,419
10 GENERAL PLANT IN SERVICE	888,152	42,777		
11 Corporate Plant in Service	113,222			<u>Dep Land GPlant</u>
12 PS Plant in Service	20,932			368
13 Accounting	0			
14 Grand Total	<u>7,233,382</u>	<u>169,013</u>		
15 <u>Transmission Plant</u>		<u>Segmented</u>	<u>Unsegmented</u>	<u>Ancillary Service</u>
16 Substations	2,912,157			
17 Metering Locations	14,057			
18 Total Stations	<u>2,926,214</u>	2,912,591	13,623	
19 Total Lines	<u>2,779,880</u>	2,761,976	17,903	
20 Other Transmission Plant	98,540		98,540	
21 Emergency minimum stock	11,896		11,896	
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	<u>5,906,682</u>	<u>5,684,126</u>	<u>144,406</u>	<u>78,151</u>
26 <u>General Plant</u>				
27 Communication Equipment (397)	433,649		390,727	42,922
28 Control Equipment (353.1, 391.2, 391.3)	42,744			42,744
29 Other General Plant	368,982		368,982	
30 GPLNT less PFIA	<u>845,375</u>		<u>759,709</u>	<u>85,666</u>
31 <u>Subtotals</u>				
32 Communication Equipment (397)	436,389		393,171	43,218
33 Control Equipment (353.1, 391.2, 391.3)	120,599			120,599
34 Total (incl. Dep Land GPlant)			<u>762,522</u>	<u>163,817</u>

BPA Plant Investment
as of September 30, 2012 \$7,233,382
(\$000)

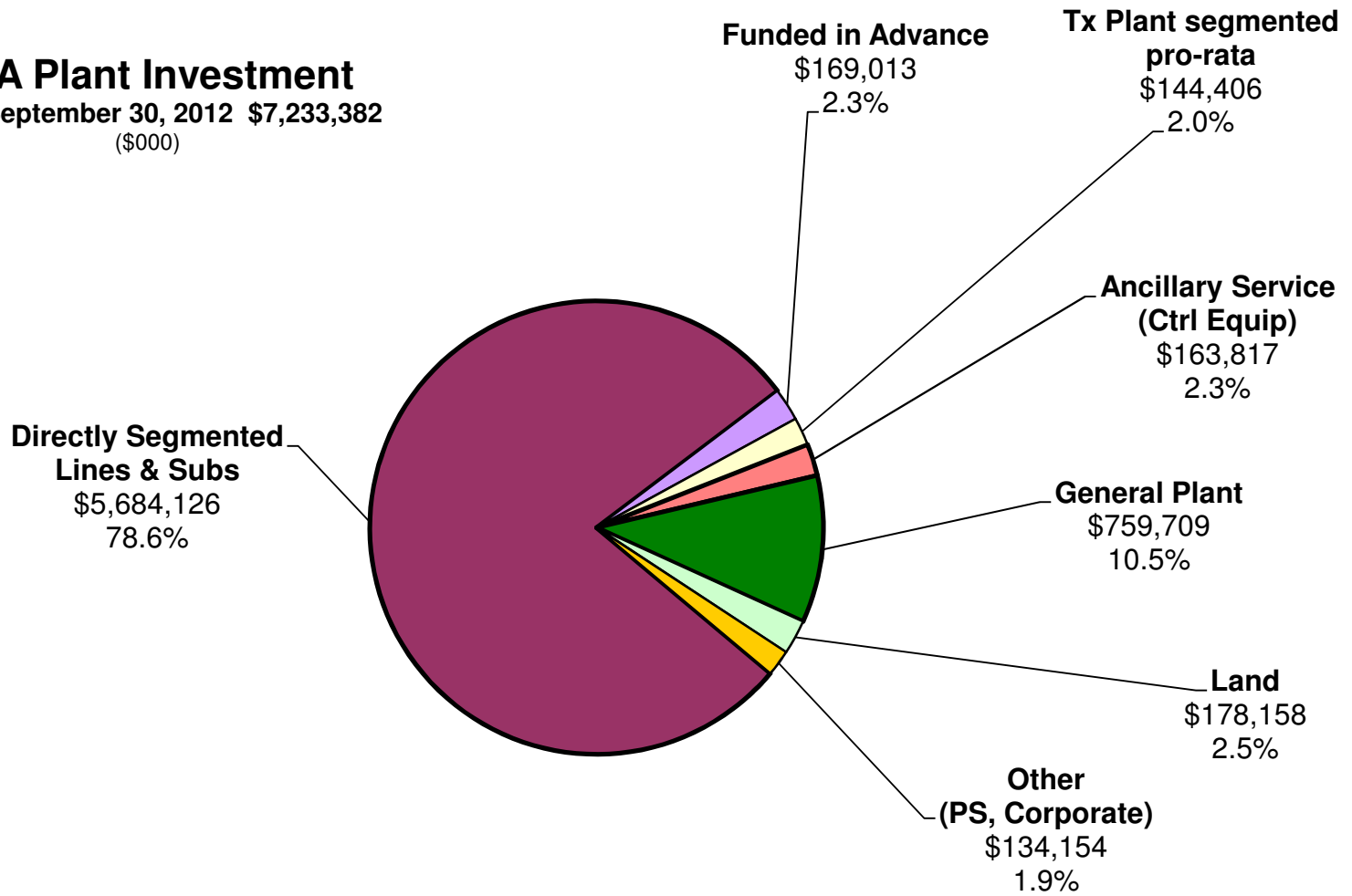


Table 2
BPA Segmented Gross Investment, through Sept. 30, 2012
(\$000)

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>Network</u>	<u>Intertie</u>	<u>Intertie</u>	<u>Delivery</u>	<u>DSI Delivery</u>	<u>Total</u>	<u>segmented</u>	
1	Substations	58,578	2,182,567	591,757	24,226	29,254	26,210	2,912,591	13,623
2	Other Facilities								98,540
3	Emergency Stock								11,896
4	Unseg.Allocation	2,495	92,964	25,205	1,032	1,246	1,116	124,058	(124,058)
5	Subtotal	<u>61,074</u>	<u>2,275,531</u>	<u>616,962</u>	<u>25,258</u>	<u>30,500</u>	<u>27,326</u>	<u>3,036,649</u>	-
6	FERC Account Summary								
7	Account 352						297,830		
8	Account 353						2,728,948		
9	Account 354						3,630		
10	Account 355						1,072		
11	Account 356						3,742		
12	Account 358						9		
13	Account 359						782		
14	Account 390						84		
15	Account 391						484		
16	Leased (no account)						67		
17	Substation total						<u>3,036,649</u>		
18	Lines	18,537	2,451,140	197,981	94,271	47	-	2,761,976	17,903
19	Unseg.Allocation	120	15,889	1,283	611	0	-	17,903	(17,903)
20	Subtotal	<u>18,657</u>	<u>2,467,028</u>	<u>199,264</u>	<u>94,882</u>	<u>48</u>	<u>-</u>	<u>2,779,880</u>	-
21	FERC Account Summary								
22	Account 352						1,473		
23	Account 353						22,080		
24	Account 354						1,084,626		
25	Account 355						288,057		
26	Account 356						1,147,417		
27	Account 358						21,807		
28	Account 359						152,583		
29	Leased (no account)						61,838		
30	Line total						<u>2,779,880</u>		
31	Intangibles (Account 303)		4,014	5,545				9,559	
32	Lines & Subs Total	<u>79,731</u>	<u>4,746,573</u>	<u>821,770</u>	<u>120,140</u>	<u>30,547</u>	<u>27,326</u>	<u>5,826,088</u>	-
33	% of Segmented Total	1.4%	81.5%	14.1%	2.1%	0.5%	0.5%	100.0%	
34	Depreciable Land (Account 350)								
35	Substations	-	27	-	-	-	-	27	
36	Lines	61	47,179	-	-	-	-	47,239	180
37	Other Facilities								388
38	Unseg.Allocation	8	462	80	12	3	3	568	(568)
39	Subtotal	<u>69</u>	<u>47,668</u>	<u>80</u>	<u>12</u>	<u>3</u>	<u>3</u>	<u>47,834</u>	-
40	Other						Ancillary	General	
41	Control						Services	Plant	
42	Communications						120,599		
43	General Plant						43,218	393,171	
44	Depr. Land (G. Plant)							368,982	
45	Subtotal						<u>163,817</u>	<u>762,522</u>	
46	FERC Account Summary								
47	Account 352								44
48	Account 353						77,855		(5)
49	Account 356								(2)
50	Account 389								368
51	Account 390								193,934
52	Account 391						42,744		1,663
53	Account 392								72,875
54	Account 393								607
55	Account 394								9,187
56	Account 395								26,687
57	Account 396								28,806
58	Account 397						43,218		393,171
59	Account 398								35,187
60	Other total						<u>163,817</u>	<u>762,522</u>	
61	Segmented Investment	<u>79,799</u>	<u>4,794,241</u>	<u>821,851</u>	<u>120,152</u>	<u>30,550</u>	<u>27,329</u>	<u>163,817</u>	<u>762,522</u>

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>Intertie</u>	<u>Intertie</u>	<u>Delivery</u>		
1 Stations							
2 FY 2013	-	152,708	10,929	-	558	-	164,195
3 FY 2014	-	263,432	11,140	-	439	-	275,011
4 FY 2015	-	226,945	12,271	-	438	-	239,654
5 Lines							
6 FY 2013	-	88,172	2,079	-	-	-	90,251
7 FY 2014	-	96,471	12,968	-	-	-	109,439
8 FY 2015	-	224,656	3,056	-	-	-	227,712
9 Lines & Subs							
10 FY 2013	-	240,880	13,008	-	558	-	254,446
11 FY 2014	-	359,903	24,108	-	439	-	384,451
12 FY 2015	-	451,601	15,327	-	438	-	467,366
13 Other							
		<u>Ancillary</u>	<u>General</u>				
		<u>Services</u>	<u>Plant</u>				
14 FY 2013		7,831	67,822				
15 FY 2014		27,108	62,441				
16 FY 2015		11,683	118,788				

Table 4
BPA Historical Operations and Maintenance (O&M), Fiscal years 2010 through 2012
(\$000)

A	B	C	D	E	F	G	H	I
	<u>Generation Integration</u>	<u>Network</u>	<u>Southern Intertie</u>	<u>Eastern Intertie</u>	<u>Utility Delivery</u>	<u>DSI Delivery</u>	<u>Total</u>	<u>Un- segmented</u>
1 Stations	2,538	85,248	16,305	531	1,854	985	107,460	16,899
2 Unseg.Allocation	399	13,406	2,564	84	292	155	16,899	(16,899)
3 Subtotal	2,937	98,654	18,869	615	2,145	1,140	124,359	-
4 Lines	207	23,657	1,384	173	4	-	25,425	1,289
5 Unseg.Allocation	10	1,199	70	9	0	-	1,289	(1,289)
6 Subtotal	217	24,856	1,455	181	4	-	26,713	-
7 Lines & Subs	3,154	123,510	20,323	796	2,149	1,140	151,072	-
8 % of Segmented Total	2.1%	81.8%	13.5%	0.5%	1.4%	0.8%	100.0%	
9 Other							Ancillary Services	General Plant
							45,337	45,945

Appendix A
BP14 Rate Case Final Proposal Segmentation Details

Generation Integration Facilities

Transmission Lines	Investment (\$)	O&M (\$)	Multi %
ANDERSON RANCH-MOUNTAIN HOME NO 1	4,449,861	38,869	
BIG CLIFF-DETROIT PH NO 1	181,340	2,744	
BIG CLIFF-DETROIT PH NO 2	181,340	1,301	
BLACK CANYON-EMMETT NO 1	307,180	19,288	
BONNEVILLE PH 1-NORTH BONNEVILLE NO 1	85,578	1,153	
BONNEVILLE PH 1-NORTH BONNEVILLE NO 2	86,775		
BONNEVILLE PH 2-NORTH BONNEVILLE NO 3	98,469	2,483	
BONNEVILLE PH 2-NORTH BONNEVILLE NO 4	1,214,223	0	
CHANDLER TAP TO GRANDVIEW-REDMOUNTAIN NO 1	118,517	4,041	
CHIEF JOSEPH PH-CHIEF JOSEPH NO 1	68,924	3,014	
CHIEF JOSEPH PH-CHIEF JOSEPH NO 2	89,376	2,936	
CHIEF JOSEPH PH-CHIEF JOSEPH NO 3	82,433	1,156	
CHIEF JOSEPH PH-CHIEF JOSEPH NO 4	78,094	381	
CHIEF JOSEPH PH-CHIEF JOSEPH NO 5	475,202	1,370	
CHIEF JOSEPH PH-CHIEF JOSEPH NO 6	439,561	2,849	
COLUMBIA GENERATING STATION-ASHE NO 1	330,593	591	
COLUMBIA GENERATING STATION-ASHE NO 2	76,075	1,374	
COUGAR-THURSTON NO 1	113,609	6,123	5%
DETROIT PH-DETROIT NO 1	42,262	18,314	
DETROIT PH-DETROIT NO 2	42,262	3,093	
DETROIT-SANTIAM NO 1	1,916,208	11,641	
DWORSHAK PH-DWORSHAK NO 1	1,225,822	3,451	
DWORSHAK PH-DWORSHAK NO 1 ML CLEARWATER CO	76,474		
GREEN PETER-LEBANON NO 1	357,224	13,494	35%
HILLS CREEK-LOOKOUT POINT NO 1	288,822	26,195	19%
ICE HARBOR-FRANKLIN NO 3	1,465,528	4,845	
JOHN DAY PH-JOHN DAY NO 1	485,647	1,996	
JOHN DAY PH-JOHN DAY NO 2	485,647	1,758	
JOHN DAY PH-JOHN DAY NO 3	485,647	1,343	
JOHN DAY PH-JOHN DAY NO 4	485,642	1,670	
LIBBY PH-LIBBY NO 1	278,220	2,202	
LIBBY PH-LIBBY NO 2	265,855	6,865	
LITTLE GOOSE PH-LITTLE GOOSE NO 1	290,246	1,987	
LOOKOUT POINT PH-LOOKOUT POINT NO 1	10,253	478	
LOWER GRANITE PH-LOWER GRANITE NO 1	433,123	3,987	
LOWER MONUMENTAL PH-LOWER MONUMENTAL NO 1	236,523	6,207	
MCNARY PH-MCNARY 3&4 NO 3	135,173	549	
MCNARY PH-MCNARY NO 1	76,683	990	
MCNARY PH-MCNARY NO 2	74,361	654	
MCNARY PH-MCNARY NO 5	101,717	549	
MCNARY PH-MCNARY NO 6	112,595	1,365	
THE DALLES PH-BIG EDDY NO 1	118,075	931	
THE DALLES PH-BIG EDDY NO 2	121,407	361	
THE DALLES PH-BIG EDDY NO 3	107,356	403	
THE DALLES PH-BIG EDDY NO 4	107,351	478	
THE DALLES PH-BIG EDDY NO 5	116,296	783	
THE DALLES PH-BIG EDDY NO 6	117,572	478	
Subtotal Lines	18,537,140	206,739	

Substations	Investment (\$)	O&M (\$)	Multi %
ALBENI FALLS SUBSTATION	365,644	27,288	25%
ASHE SUBSTATION	3,326,619	137,356	10%
BIG EDDY SUBSTATION	3,428,441	119,541	5%
BONNEVILLE POWERHOUSE #1	164,462	26,925	
CHIEF JOSEPH POWERHOUSE	102,351	30,737	
CHIEF JOSEPH SUBSTATION	7,910,317	623,780	25%
COLUMBIA GENERATING STATION SUBSTATION (ENERGY NORTHWEST)	31,314		
COUGAR SUBSTATION	255,378	23,637	
DETROIT SUBSTATION	1,051,706	60,965	
DWORSHAK POWERHOUSE	190,858	9,406	
DWORSHAK SUBSTATION	4,502,639	77,027	18%
FOSTER SUBSTATION	42,312	14,104	
FRANKLIN SUBSTATION	1,804,029	190,370	20%
GRAND COULEE 115 KV SWITCHYARD	75,243	11,312	
GRAND COULEE 230 KV SWITCHYARD	82,186	3,612	
GRAND COULEE 500 KV SWITCHYARD	413,567	39,160	
GREEN PETER SUBSTATION	257,380	17,042	
HANFORD NO.2 CONSTRUCTION SUBSTATION	75,446	12,475	
HILLS CREEK SUBSTATION	374,351	28,983	
HUNGRY HORSE POWERHOUSE	333,182	16,670	
HUNGRY HORSE SWITCHYARD	89,046		
ICE HARBOR POWERHOUSE	187,001	13,476	
JOHN DAY POWERHOUSE	276,948	1,230	
JOHN DAY SUBSTATION	10,818,276	232,187	27%
LIBBY POWERHOUSE	112,091	10,494	
LIBBY SUBSTATION(BPA)	1,212,752	88,119	18%
LITTLE GOOSE POWERHOUSE	484,978	9,419	
LITTLE GOOSE SUBSTATION	2,496,988	56,771	20%
LOOKOUT POINT POWERHOUSE	28,750	1,513	
LOOKOUT POINT SUBSTATION	553,632	12,775	25%
LOST CREEK POWERHOUSE	53,123	2,691	

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LOWER GRANITE POWERHOUSE	368,331	5,315	
LOWER GRANITE SUBSTATION	2,095,399	77,182	25%
LOWER MONUMENTAL POWERHOUSE	393,152	3,404	
LOWER MONUMENTAL SUBSTATION	2,238,972	33,526	12%
M McNARY POWERHOUSE	245,608	18,441	
M McNARY SUBSTATION	5,917,573	164,705	12%
MINIDOKA POWERHOUSE	147,898	8,100	
MOUNTAIN HOME SUBSTATION(BPA)	174,369	64,272	
NORTH BONNEVILLE SUBSTATION	3,773,241	153,205	37%
PALISADES POWERHOUSE	620,267	20,072	
ROZA POWERHOUSE	23,450		
SACAJAWEA SUBSTATION	186,464	899	1%
SANTIAM SUBSTATION	775,593	49,245	5%
THE DALLES POWERHOUSE	53,426	8,140	
WPPSS NO. 2 POWERHOUSE	463,746	32,033	
Subtotal Substations	58,578,499	2,537,601	
Total Generation Integration	77,115,639	2,744,340	

Integrated Network Facilities

Transmission Lines	Investment (\$)	O&M (\$)	Multi %
ABERDEEN TAP TO SATSOP PARK-COSMOPOLIS NO 1	1,597,354	16,211	
ACORD TAP TO GRANDVIEW-RED MOUNTAIN NO 1	256,732		
ADDY-COLVILLE NO 1	42,251	7,815	
ADDY-CUSICK NO 1	4,892,667	38,581	
ALBANY-BURNT WOODS NO 1	1,108,548	26,477	
ALBANY-BURNT WOODS NO 1 ML BENTON CO	2,789,686		
ALBANY-BURNT WOODS NO 1 ML LINCOLN CO	94,000		
ALBANY-BURNT WOODS NO 1 ML LINN CO	250,687		
ALBANY-EUGENE NO 1	4,632,722	52,029	
ALBANY-LEBANON NO 1	1,083,416	45,361	
ALBENI FALLS-PINE STREET NO 1	329,901	3,665	
ALBENI FALLS-SAND CREEK NO 1	11,116,181	78,720	
ALCOA-FELIDA NO 1	36,090	3,858	
ALLSTON-CLATSOP NO 1	2,812,090	125,055	
ALLSTON-DRISCOLL NO 1	1,410,837	12,516	
ALLSTON-DRISCOLL NO 2	4,866,564	113,589	
ALVEY 500/230 KV TIE LINE NO 1	347,565	1,328	
ALVEY-FAIRVIEW NO 1	9,229,828	359,978	
ALVEY-LANE NO 1	1,378,137	21,026	
ALVEY-MARTIN CREEK NO 1	203,899	18,705	
ANACONDA-SILVER BOW NO 1	587,205	43,172	
Antelope-Fossil Transmission Lines & Substation	16,642,388		
ASHE TAP TO MIDWAY-HEW NO 2	83,431	3,108	
ASHE-HANFORD NO 1	5,509,091	13,519	
ASHE-MARION NO 2	84,328,646	381,147	
ASHE-SLATT NO 1	25,162,078	71,631	
ASHE-WHITE BLUFFS NO 1	1,215,881	7,790	
BADGER CANYON-REATA NO 1	352,148	3,415	
BADGER CANYON-RICHLAND NO 1	624,512	4,490	
BALD MOUNTAIN TAP TO UNDERWOOD TAP	119,704		
BANDON SUBSTATION TRANSFORMER TIE 1	8,680	325	
BANDON-ROGUE NO 1	2,949,372	74,408	
BELFAIR TAP TO SHELTON-KITSAPNO 2	1,313		
BELL-ADDY NO 1	4,921,055	44,167	
BELL-BOUNDARY NO 1	5,679,015	91,175	
BELL-BOUNDARY NO 3	29,044,903	135,994	
BELLINGHAM-CUSTER NO 1	149,475	9,246	
BELL-LANCASTER NO 1	2,437,602	36,078	
BELL-TRENTWOOD NO 1	709,183	34,162	
BELL-TRENTWOOD NO 2	586,821	25,265	
BELL-USK NO 1	1,831,208	40,992	
BENTON-451B NO 1	240,845	8,180	
BENTON-DOE B3-S4 NO 1	162,956	6,645	
BENTON-FRANKLIN NO 1	7,189,560	15,065	
BENTON-FRANKLIN NO 2	606,950	14,034	
BENTON-OTHELLO NO 1	318,857	6,540	
BENTON-SOOTENEY NO 1	936,782	76,921	
BERTELSEN-WILLOW CREEK NO 1	85,814	1,809	
BETTAS ROAD-COLUMBIA NO 1	792,557	7,531	
BIG EDDY-CHEMAWA NO 1	3,468,845	155,597	
BIG EDDY-CHENOWETH NO 1	885,593	17,874	
BIG EDDY-CHENOWETH NO 2	1,381,639	8,744	
BIG EDDY-DE MOSS NO 1	915,833	43,708	
BIG EDDY-MCLOUGHLIN 1&2 NO 1	4,965,983	45,628	
BIG EDDY-MCLOUGHLIN 1&2 NO 2	1,764,192	14,929	
BIG EDDY-OSTRANDER NO 1	10,045,705	59,515	
BIG EDDY-OSTRANDER NO 1 (ML CLACKAMAS CO)	1,877,797		
BIG EDDY-REDMOND NO 1	5,590,842	168,791	
BIG EDDY-SPRING CREEK NO 1	3,032,156	83,745	
BIG EDDY-THE DALLES FISHWAY HYDRO PLANT	2,955,999		
BIG EDDY-TROUTDALE NO 1	7,742,186	205,673	
BLUE RIVER TAP TO COUGAR-THURSTON NO 1	19,656	19,299	

Appendix A

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BOARDMAN TAP TO MCNARY-JONES CANYON NO 1	61,136	1,317	
BOARDMAN-IONE NO 1	676,914	21,203	
Boardman-Ione Transmission Line	221,420		
BOARDMAN-TOWER ROAD NO 1	645,689	4,049	
BONNEVILLE PH 1-HOOD RIVER NO 1	2,711,115	152,772	
BONNEVILLE PH 1-NORTH CAMAS NO 1	453,835	21,942	
BONNEVILLE PH1-ALCOA 1&2	7,905		
BONNEVILLE PH1-ALCOA NO 1 & 2 (BONN PH1-ALCOA NO 2 SECTION	923,197	21,321	
BONNEVILLE PH1-ALCOA NO 1 & 2 (BONN PH1-ALCOA NO 1 SECTION)	77,542	24,539	
BOTHELL-SAMMAMISH (PSE) (FOR ACCOUNTING PURPOSES ONLY)	575,499		
BOTHELL-SNO-KING NO 1	415,901		
BOTHELL-SNO-KING NO 2	693,960	1,390	
BOUNDARY-NELWAY 1	263,960	21,431	
BOUNDARY-WANETA 1	117,328	1,143	
BOYER-TILLAMOOK NO 1	2,529,381	76,212	
BRASADA-HARNEY NO 1	2,944,374	129,377	
BRASADA-HARNEY NO 1 ML DESCHUTES CO	314,072		
BRASADA-HARNEY NO 1 ML HARNEY CO	82,671		
BRONX-SAND CREEK NO 1	2,571,101	6,763	
BUCKLEY-GRIZZLY NO 1	7,514,539	21,322	43%
BUCKLEY-MARION NO 1	20,369,871	49,991	50%
BURBANK TAP TO FRANKLIN-WALLAWALLA NO 1	2,665	685	
CALPINE-MCNARY NO 1	428,117	22,588	
CANAL-SECOND LIFT NO 1	25,231	2,123	
CANAL-SECOND LIFT NO 2	19,804	155	
CANBY TAP TO MALIN-HILLTOP NO1	2,263,227	17,638	
CARDWELL-COLITZ NO 1 (ML) COWLITZ COUNTY	3,466,643		
CARDWELL-COWLITZ NO 1	629,399	7,257	
CARLTON-MCMINNVILLE NO 1	463,769	1,824	
CARLTON-SHERWOOD NO 1	575,080	7,434	
CARLTON-TILLAMOOK NO 1	5,998,086	172,575	
CARSON TAP TO UNDERWOOD TAP	267,329	1,468	
CASCADE LOCKS TAP TO BONNEVILLE PH 1-HOOD RIVER NO 1	7,085	5,203	
CASCADE STEEL TAP TO CARLTON SHERWOOD NO 1	1,527,599	15,079	
CENTRALIA TAP TO CHEHALIS-COVINGTON NO 1	1,162	2,870	
CENTRALIA-MAY STREET NO 1	45,304	1,985	
CGS BACKUP BANK TAP TO BENTON - 451B NO 1	87,163	1,506	
CHEHALIS-CENTRALIA NO 1 ML LEWIS CO	4,232,257		
CHEHALIS-CENTRALIA NO 1	880,849	14,240	
CHEHALIS-CENTRALIA NO 2	1,248,508	19,209	
CHEHALIS-CENTRALIA NO 2 ML LEWIS CO	5,911,773		
CHEHALIS-COVINGTON NO 1	2,235,062	147,364	
CHEHALIS-MAYFIELD NO 1	1,576,880	52,750	
CHEHALIS-OLYMPIA NO 1	2,507,120	59,094	
CHEHALIS-RAYMOND NO 1	15,303,992	81,460	
CHEMAWA-SALEM ALUMINA NO 1	299,492	6,879	
CHEMAWA-SALEM NO 1	4,761,205	8,506	
CHEMAWA-SALEM NO 2	302,519	4,651	
CHENEY TAP TO SILVER LAKE-SUNSET	381,384	32,417	
CHENOWETH-GOLDENDALE NO 1	1,375,378	53,861	
CHIEF JOEPH-SICKLER NO 1 ML DOUGLAS CO	737,581		
CHIEF JOSEPH-EAST OMAK NO 1	5,148,496	134,746	
CHIEF JOSEPH-MONROE NO 1	21,776,416	237,699	
CHIEF JOSEPH-MONROE NO 1 ML SNOHOMISH CO	1,954,071		
CHIEF JOSEPH-SICKLER NO 1	4,620,138	60,383	
CHIEF JOSEPH-SNOHOMISH NO 3	7,939,299	68,309	
CHIEF JOSEPH-SNOHOMISH NO 4	9,240,347	124,494	
CHRISTMAS VALLEY TAP TO BRASADA-HARNEY NO 1	1,640		
CHRISTOPHER TAP TO TACOMA-COVINGTON-4 (RETIRED)	61,063		
COLUMBIA FALLS-CONKELLEY NO 1	72,714	1,121	
COLUMBIA FALLS-FLATHEAD NO 1	756,209	7,772	
COLUMBIA FALLS-KALISPELL NO 1	397,575	26,710	
COLUMBIA FALLS-TREGO NO 1	1,542,772	134,012	
COLUMBIA-ELLENSBURG NO 1	1,962,585	25,749	
COLUMBIA-ELLENSBURG NO 1 ML KITTITAS CO	4,463,967		
COLUMBIA-GRAND COULEE NO 1	1,417,945	134,705	
COLUMBIA-GRAND COULEE NO 3	1,722,738	59,086	
COLUMBIA-VALHALLA NO 1	207,161	11,337	
COLUMBIA-VALHALLA NO 2	534,449	14,332	
COLVILLE-BOUNDARY NO 1	4,878,645	24,943	
COLVILLE-REPUBLIC NO 1	5,539,915	85,911	
CONKELLY TAP TO HUNGRY HORSE-COLUMBIA FALLS NO 1 (OBSOLETE)	2,743		
CONNELL TAP TO BENTON-SOOTENEY NO 1	190,017	9,255	
COSMOPOLIS-ABERDEEN NO 1	6,928	594	
COTTAGE GROVE-DRAIN NO 1 (RETIRED)	312,761		
COUGAR-THURSTON NO 1	1,983,343	106,885	95%
COVINGTON SUBSTATION TIE NO 2	17,720	1,771	
COVINGTON-BETTAS ROAD NO 1	1,742,283	61,811	
COVINGTON-CRESTON SCL NO 1	398,640	19,706	
COVINGTON-DUWAMISH NO 1	752,610	14,531	
COVINGTON-MAPLE VALLEY NO 2	1,129,206	29,247	
COVINGTON-WHITE RIVER NO 1	216,902	16,638	
COWLITZ TAP TO CHEHALIS-COVINGTON NO 1	740,713	26,515	
COYOTE SPRINGS-SLATT NO 1	2,352,112	13,126	88%

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CRESTON-BELL NO 1	3,104,680	84,247	
CRESWELL TAP TO ALVEY-MARTIN CREEK NO 1	92,141		
CUSTER-INGLEDOW NO 1	7,036,672	10,371	
CUSTER-INGLEDOW NO 2	1,768,518	6,482	
CUSTER-INTALCO NO 1	497,585	18,177	
CUSTER-INTALCO NO 2	531,003	11,093	
DAVIS CREEK TAP TO MILE-HI-ALTURAS	208,342	5,689	
DE MOSS-FOSSIL NO 1	1,784,328	125,301	
DEXTER TAP TO LOOKOUT POINT-ALVEY NO 1	27,559	1,295	
DISCOVERY-CHENOWETH NO 1	8,490	396	
DOE B3-S4-WHITE BLUFFS NO 1	557,626	12,001	
DORENA TAP TO ALVEY-MARTIN CREEK NO. 1	221,415	10,597	
DRAIN-ELKTON NO 1	843		
DRAIN-OAKLAND NO 1	843		
DRISCOLL TAP TO ALLSTON-CLATSOP NO 1	1,683,694		
DRISCOLL-NASELLE NO 1	3,827,817	128,187	
DRISCOLL-WAUNA NO 1	28,035	825	
DRUMMOND - MACKS INN NO 1	8,954	144,334	
DUTCH CANYON TAP TO ST JOHNS-ST HELENS NO 1	139		
DWORSHAK PH-OROFINO NO 1	205,764	4,443	
DWORSHAK-TAFT NO 1	22,069,794	121,571	
EAST ELLENSBURG TAP TO COLUMBIA-ELLENSBURG NO 1	356,552	1,790	
EAST OMAK TAP TO GRAND COULEE-FOSTER CREEK NO 1	5,127,081	14,775	
EAST OMAK-OROVILLE NO 1	13,684	19,410	
EAST OMAK-TONASKET NO 2	13,691	9,305	
ECHO LAKE - MAPLE VALLEY NO 1 & 2 (EL-MV NO	5,628,393	15,491	
ECHO LAKE - MAPLE VALLEY NO 1 & 2 (EL-MV NO 1 SECTION)	5,594,552	26,963	
ECHO LAKE-MONROE NO 1	4,938,957	46,594	
ELBE TAP TO ALDER-LAGRANDE NO1,2	1,867,188	12,261	
ELLENSBURG-MOXEE NO 1	4,540,019	78,529	
ELTOPIA TAP TO SMITH CANYON-REDD	415,578	4,236	
EUGENE-ALDERWOOD NO 1	3,965,075	26,977	
EUGENE-ALVEY NO 2	913,760	27,330	
EUGENE-BERTELSEN NO 1	58,755	8,466	
EUGENE-LANE NO 1	105,016	23,990	
FAIRMOUNT-PORT ANGELES NO 1	1,878,901	43,273	
FAIRMOUNT-PORT ANGELES NO 2	1,529,338	94,270	
FAIRVIEW-BANDON NO 1	1,682,809	83,556	
FAIRVIEW-BANDON NO 2	2,199,172	48,962	
FAIRVIEW-ROGUE NO 1	6,893,302	106,558	
FIDALGO-LOPEZ ISLAND NO 3	1,929,609	7,549	
FIDALGO-LOPEZ ISLAND NO 4	4,794,685		
FIDALGO-LOPEZ ISLAND NO 5	13,833,755	3,052	
FILBERT TAP TO FOREST GROVE-MCMINNVILLE NO 1	290,501	491	
FLATHEAD-HOT SPRINGS NO 1	3,257,393	47,815	
FORDS PRAIRIE TAP TO CHEHALIS-CENTRALIA NO 2	23,009	104	
FOREST GROVE-MCMINNVILLE NO 1	1,091,179	28,469	
FOREST GROVE-TILLAMOOK NO 1	6,218,645	35,599	
FOSTER TAP TO GREEN PETER-LEBANON NO 1	254,650	8,459	
FOUR LAKES TAP TO SUNSET-EASTCOLFAX	238,110	11,775	
FRANKLIN-BADGER CANYON NO 1	1,733,993	8,913	
FRANKLIN-BADGER CANYON NO 2	2,181,290	15,747	
FRANKLIN-HEDGES NO 1	247,366	4,796	
FRANKLIN-RUBY STREET NO 1	1,347,949	4,283	
FRANKLIN-WALLA WALLA NO 1	6,166,393	39,379	
FRANZ HOLMES TAP TO COWLITZ-LAGRANDE NO 1,2 (OBSOLETE)	276,241	8,509	
FROMAN TAP TO ALBANY-LEBANON NO 1	592,229	3,399	
GARRISON-ANACONDA NO 1	5,153,222	62,325	
GARRISON-TAFT NO 1	86,218,545	165,690	
GARRISON-TAFT NO 2	86,218,545	85,076	
GLADE TAP TO BENTON-FRANKLIN NO 2	716		
GOSHEN-DRUMMOND NO 1	16,291,283	186,425	
GRAND COULEE-BELL NO 3	3,271,711	264,987	
GRAND COULEE-BELL NO 5	4,113,496	43,063	
GRAND COULEE-BELL NO 6	104,017,288	87,148	
GRAND COULEE-CHIEF JOSEPH NO 1	1,530,305	49,182	
GRAND COULEE-CHIEF JOSEPH NO 2	1,945,691	52,774	
GRAND COULEE-CHIEF JOSEPH NO 3	4,100,432	14,098	
GRAND COULEE-CRESTON NO 1	1,479,628	29,917	
GRAND COULEE-FOSTER CREEK NO 1	786,871	28,459	
GRAND COULEE-HANFORD NO 1	12,282,324	79,905	
GRAND COULEE-OKANOGAN NO 2	954,810	262,905	
GRAND COULEE-SCHULTZ NO 1	31,696,784	324,286	
GRAND COULEE-SCHULTZ NO 2	30,625,010	56,084	
GRAND COULEE-WESTSIDE(AVA) NO 1	2,238,122	51,962	
GRANDE ROND-BOYER NO 1	1,283,226	12,105	
GRANDVIEW-RED MOUNTAIN NO 1	1,578,244	26,652	
GREEN BLUFF TAP TO BELL-TRENTWOOD NO 2	268,903	8,390	
GREEN PETER-LEBANON NO 1	666,893	25,192	65%
GRIZZLY-SUMMER LAKE NO 1	14,204,156	45,107	43%
GRIZZLY-SUMMER LAKE NO 1 (CROOK CO)	108,228		43%
GRIZZLY-SUMMER LAKE NO 1 (DESCHUTES CO)	127,891		43%
GRIZZLY-SUMMER LAKE NO 1 (LAKE CO)	255,806		43%
Grouse Creek-Tecoma Transmission Lines & Substation	2,236,179		

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HANFORD-WAUTOMA NO 1	3,063,563	8,407	
HANFORD-WAUTOMA NO 1, ML BENTON CO	235,126		
HANFORD-WAUTOMA NO 2	2,601,240	13,275	
HANFORD-WAUTOMA NO 2, ML BENTON CO	249,603		
HARRISBURG TAP TO ALBANY-EUGENE NO 1	15,159	271	
HARVALUM-BIG EDDY NO 1	2,717,106	19,039	
HAT ROCK TAP TO MCNARY-WALLULA	117,346	1,426	
HATTON TAP TO CONNELL TAP	904,801	13,267	
HATWAI-DWORSHAK NO 1	6,688,529	199,206	
HAWKINS-ALVEY NO 1	193,564	23,830	
HEBO TAP TO BOYER-TILLAMOOK NO 1	1,872	322	
HEDGES TAP TO FRANKLIN-BADGERCANYON NO 2	197,981	1,151	
HEYBURN-ADELAIDE NO 1	3,956,550	11,645	
HIDEAWAY TAP TO HAWKINS-ALVEY NO 1	505	323	
HILLS CREEK-LOOKOUT POINT NO 1	1,206,539	109,427	81%
HILLTOP-WARNER NO 1	4,824,687	28,443	
HOLCOMB TAP TO CHEHALIS-RAYMOND NO 1	343,953	2,235	
HOLCOMB-NASELLE NO 1	1,873,857	80,192	
HOOD RIVER-THE DALLES NO 1	3,502,756	11,660	
HORN BUTTE TAP TO TOWER ROAD-ALKALI NO 1	339,950	1,588	
HORSE HEAVEN-HARVALUM NO 1	750,152	29,386	
HORSE RANCH TAP TO MONROE-SNOHOMISH NO 1&2	79,180		
HOT SPRINGS 500-230KV TIE NO 1	37,012	171	
HOT SPRINGS-RATTLESNAKE NO 1	6,405,758	157,690	
HUNGRY HORSE-COLUMBIA FALLS NO 1	4,979,851	4,067	
HUNGRY HORSE-CONKELLEY NO 1	981,905	6,517	
ICE HARBOR-FRANKLIN NO 1	587,534	12,738	
ICE HARBOR-FRANKLIN NO 2	570,551	7,736	
JACKSON TAP TO CANAL-SECOND LIFT NO. 2	54,669		
JIM CREEK SERVICE NO 1	26,551	295	
JOHN DAY-BIG EDDY NO 2	5,433,041	9,948	
JOHN DAY-BIG EDDY NO 2 ML SHERMAN CO	152,151		
JOHN DAY-BIG EDDY NO 2 ML WASCO CO	152,153		
JOHN DAY-MARION NO 1	17,485,758	191,931	
JONES CANYON-SANTIAM NO 1	5,427,621	115,776	
JUNCTION CITY TAP TO ALBANY-EUGENE NO 1	2,182	1,436	
KALISPELL-KERR NO 1	1,283,063	102,965	
KEELER-ALLSTON NO 1	5,141,827	57,833	
KEELER-FOREST GROVE NO 1	3,011,998	165,191	
KEELER-FOREST GROVE NO 2	575,738	23,050	
KEELER-OREGON CITY NO 2	1,405,479	31,392	
KEELER-PENNWALT NO 1(DEENERGIZED)	256,113		
KELLER TAP TO GRAND COULEE-OKANOGAN NO 2	4,871,621	104,600	
KENNEWICK TAP TO FRANKLIN-BADGER CANYON NO 2	38,892	2,496	
KERR SUB TIE TO US ITS MP CO.115KV	77,150	363	
KITSAP-BANGOR NO 1	637,130	17,295	
KITSAP-STATION X NO 1	262,419		
KLONDIKE SCHOOLHOUSE-JOHN DAY NO 1	9,759,776	7,592	
LA PINE-CHILOQUIN NO 1	2,337,568	60,109	
LA PINE-FORT ROCK NO 1	6,683,185	25,138	
LA PINE-FORT ROCK NO 1 ML DESCHUTES CO	78,561		
LANCASTER-NOXON NO 1	3,204,668	94,036	
LANE-WENDSON NO 1	3,773,069	149,285	
LANE-WENDSON NO 2	2,282,762	128,494	
LANGLOIS TAP TO BANDON-ROGUE NO 1	26,655	862	
LATHAM TAP TO ALVEY-MARTIN CREEK NO 1	1,045,461	4,193	
LEXINGTON-DELAMETER NO 1	145,989		
LEXINGTON-LONGVIEW NO 1	717,372	22,983	
LEXINGTON-LONGVIEW NO 2	438,091	31,291	
LIBBY-BONNERS FERRY NO 1	25,635,253	184,705	
LIBBY-CONKELLEY NO 1	9,627,742	101,320	
LITTLE GOOSE-CENTRAL FERRY NO 2	11,183,170	16,664	
LITTLE GOOSE-LOWER GRANITE NO 1 ML GARFIELD	77,581		
LITTLE GOOSE-LOWER GRANITE NO 2 ML COLUMBIA	158,860		
LITTLE GOOSE-LOWER GRANITE NO 2 ML GARFIELD	360,082		
LITTLE GOOSE-LOWER GRANITE NO 2 ML WHITMAN	10,591		
LITTLE GOOSE-LOWER GRANITE NO1	5,783,221	25,386	
LONGVIEW-ALLSTON NO 1	333,525	58,302	
LONGVIEW-ALLSTON NO 2	69,437	58,198	
LONGVIEW-ALLSTON NO 3	1,078,732	42,902	
LONGVIEW-ALLSTON NO 4	658,953	149,461	
LONGVIEW-BAKERS CORNER (COWLITZ PUD LINE)	32,177	495	
LONGVIEW-CHEHALIS NO 1 & 3 (LONGVIEW-CHEHALI	1,453,934	39,877	
LONGVIEW-CHEHALIS NO 1 & 3 (LONGVIEW-CHEHALIS NO 1 SECTION)	1,491,566	87,616	
LONGVIEW-COWLITZ NO 1	524,096	24,097	
LOOKOUT POINT-ALVEY NO 1	789,546	56,407	
LOOKOUT POINT-ALVEY NO 2	695,638	33,010	
LOPEZ ISLAND-DECATUR NO 1	773,159		
LOST RIVER-SPAR CANYON NO 1	5,518,064	109,277	
LOWER GRANITE-HATWAI NO 1	8,301,795	73,026	
LOWER MONUMENTAL-ASHE NO 1	11,094,886	112,854	
LOWER MONUMENTAL-HANFORD NO 1	5,699,847	47,154	
LOWER MONUMENTAL-HANFORD NO 1 ML BENTON	103,974		
LOWER MONUMENTAL-HANFORD NO 1 ML FRANKLIN	639,837		

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LOWER MONUMENTAL-HANFORD NO 1 ML GRANT	47,988	
LOWER MONUMENTAL-HANFORD NO 1 ML WALLA WALLA	7,998	
LOWER MONUMENTAL-LITTLE GOOSE NO 1 ML COLUMB	28,937	
LOWER MONUMENTAL-LITTLE GOOSE NO 1 ML WAWA	231,498	
LOWER MONUMENTAL-LITTLE GOOSE NO 1 ML WHITMA	101,281	
LOWER MONUMENTAL-LITTLE GOOSENO 1	2,940,825	86,431
LOWER MONUMENTAL-LITTLE GOOSENO 2	3,347,265	33,377
LOWER MONUMENTAL-MCNARY NO 1	8,898,963	144,368
LOWER MONUMENTAL-MCNARY NO 1 ML UMATILLA CO	359,186	
LOWER MONUMENTAL-MCNARY NO 1 ML WALLA WALLA	729,257	
LYNCH CREEK TAP TO CANYON-LAGRANDE NO 1,2	1,053,417	19,249
MACKS INN-MADISON NO 1	3,753,253	83,120
MALIN-HILLTOP NO 1	6,426,964	124,133
MAPLE VALLEY-DUWAMISH NO 1	73,304	3,600
MAPLE VALLEY-MASSACHUSETTS NO 1	23,317	721
MARION-ALVEY NO 1	4,456,110	51,232
MARION-LANE NO 1	8,003,594	111,281
MARION-SANTIAM NO 1	619,487	1,902
MARTIN CREEK TAP TO ALVEY-FAIRVIEW NO 1	11,094	1,894
MARTIN CREEK-DRAIN NO 1	452,513	29,645
Maupin-Antelope Transmission Lines & Substation	894,251	
MAUPIN-TYGH VALLEY NO 1	562,433	10,748
MCCULLOUGH TAP TO COWLITZ-LAGRANDE NO 1,2	459,238	17,361
MCNARY-BADGER CANYON NO 1	2,668,698	22,190
MCNARY-BADGER CANYON NO 1 ML BENTON CO, WA	5,106,907	
MCNARY-BOARDMAN NO 1	777,180	8,836
MCNARY-COYOTE SPRINGS NO 1	2,077,323	46,860
MCNARY-FRANKLIN NO 2	1,653,546	47,530
MCNARY-HORSE HEAVEN NO 1	12,914,790	9,054
MCNARY-JOHN DAY NO 2	134,422,448	11,136
MCNARY-JONES CANYON NO 1	1,657,299	27,850
MCNARY-ROSS NO 1	12,808,869	208,506
MCNARY-ROUNDUP NO 1	1,396,046	46,493
MCNARY-SANTIAM NO 1(OBS/RET, SEE NOTES)	6,139,225	18,539
MIDWAY-BENTON NO 1	3,115,724	15,802
MIDWAY-BENTON NO 2	1,944,282	13,108
MIDWAY-GRANDVIEW NO 1	1,254,400	39,073
MIDWAY-MOXEE NO 1	1,375,442	54,479
MIDWAY-POTHOLES NO 1	765,882	119,766
MIDWAY-ROCKY FORD NO 1	1,620,448	29,315
MIDWAY-VANTAGE NO 1	9,948,980	5,093
MILTON TAP TO WALLA WALLA-PENDLETON NO 1	2,236,170	5,932
MINIDOKA PH-UNITY NO 1	2,146,839	55,855
MINIDOKA SUB TAP TO DUFN43	1,099,937	562
MIST TAP TO ALLSTON-DRISCOLL NO 2	9,302	1,207
MONROE-CUSTER NO 1	19,774,961	289,139
MONROE-CUSTER NO 1 ML SKAGIT CO	365,246	
MONROE-CUSTER NO 1 ML SNOHOMISH CO	474,819	
MONROE-CUSTER NO 1 ML WHATCOMO CO	377,421	
MONROE-CUSTER NO 2	8,704,892	118,916
MONROE-NOVELTY HILL NO.1	1,736,161	
MONROE-SNOHOMISH NO 1 & 2 (MONROE-SNOHOMISH NO 1 SECTION)	222,064	8,396
MONROE-SNOHOMISH NO 1 & 2 (MONROE-SNOHOMISH NO 2 SECTION)	164,312	3,350
MOSSYROCK-CHEHALIS NO 1	1,070,923	26,097
MOUNTAIN AVENUE TAP TO (PACIFICORP) ASHLAND-OAK KNOLL	699,916	5,498
MOXEE-ROZA NO 1	23,832	59,260
MT. VERNON TAP TO LOOKOUT POINT-ALVEY NO 2	68,601	5,476
MURRAY-CUSTER NO 1	3,130,600	84,401
NAPAVINE-ALLSTON NO 1	7,972,626	51,088
NAPAVINE-ALLSTON NO 1 ML COLUMBIA CO	35,702	
NAPAVINE-ALLSTON NO 1 ML COWLITZ CO	267,769	
NAPAVINE-ALLSTON NO 1 ML WASHINGTON CO	291,571	
NASELLE-TARLETT NO 1	2,514,187	48,407
NASELLE-TARLETT NO 2	3,823,152	51,223
NESPELEM TAP TO GRAND COULEE-OKANOGAN	579	
NINE MILE TAP TO FRANKLIN-WALLA WALLA NO 1	40,788	492
NORTH BONNEVILLE-MIDWAY NO 1	7,668,485	296,443
NORTH BONNEVILLE-ROSS NO 1	1,953,157	33,975
NORTH BONNEVILLE-ROSS NO 2	1,843,674	59,633
NORTH BONNEVILLE-TROUTDALE NO1	2,888,783	41,199
NORTH BONNEVILLE-TROUTDALE NO2	2,881,488	18,653
NORTH CAMAS-OAK PARK NO 1	114,939	7,100
NORTH CAMAS-SIFTON NO 1	190,685	2,637
NORTH MOUNTAIN-SNOHOMISH NO 1	149,405	
NOXON-HOT SPRINGS NO 1	3,019,998	205,497
NOXON-LIBBY NO 1	2,845,525	197,289
OLYMPIA 500-230 TIE LINE 1 ML THURSTON CO	992,129	
OLYMPIA-GRAND COULEE NO 1	18,026,581	535,541
OLYMPIA-HITSAP NO 3 ML THURSTON CO(SEE NOTES)	168,820	
OLYMPIA-KITSAP NO 3 (SEE NOTES)	3,080,675	36,559
OLYMPIA-KITSAP NO 3 ML MASON CO(SEE NOTES)	889,265	
OLYMPIA-SATSOP NO 2	2,461,745	19,996
OLYMPIA-SATSOP NO 3	4,021,560	10,793
OLYMPIA-SHELTON NO 1	300,750	

50%

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OLYMPIA-SHELTON NO 2	1,553,815	27,592
OLYMPIA-SHELTON NO 3	2,055,537	17,388
OLYMPIA-SHELTON NO 3 ML MASON CO	1,170,314	
OLYMPIA-SHELTON NO 4	1,943,388	21,632
OLYMPIA-SHELTON NO 4 ML MASON CO	1,170,314	
OLYMPIA-SHELTON NO 5	292,541	34,860
OLYMPIA-SHELTON NO 5 ML MASON CO	5,257,537	
OLYMPIA-SHELTON NO 5 ML THURSTON CO	2,750,273	
OLYMPIA-SOUTH ELMA NO 1	997,348	19,400
OLYMPIA-SOUTH TACOMA NO 1	10,472,082	67,529
OREGON CITY-CANBY PGE NO 1	376,143	9,846
OREGON CITY-CHEMAWA NO 1	35,890	
OREGON CITY-CHEMAWA NO 2	1,919,853	33,061
OSTRANDER-MCLOUGHLIN NO 1	1,415,214	1,082
OSTRANDER-PEARL NO 1	2,001,443	40,501
OSTRANDER-TROUTDALE NO 1	5,624,505	68,522
OSTRANDER-TROUTDALE NO 1 (ML CLACKACMAS CO)	1,743,312	
PALISADES-CATTLE CREEK NO 1	6,032,846	93,180
PALISADES-GOSHEN NO 1 ML BONNEVILLE CO	13,454,351	
PALISADES-SWAN VALLEY NO 1	1,276,790	57,760
PARKER TAP TO EUGENE-ALDERWOOD NO 1	9,970	328
PAUL D. JOHNSON TAP TO ROSS-VANCOUVER SHIPYARD NO. 1	180,120	
PAUL-ALLSTON NO 2	9,278,477	221,240
PAUL-NAPAVINE NO 1	1,699,815	64,693
PAUL-OLYMPIA NO 1	3,514,676	49,368
PAUL-SATSOP NO 1	30,139,100	54,559
PEARL-KEELER NO 1	2,245,471	28,782
PEARL-MARION NO 1	4,556,475	566,959
PEARL-MARION NO 1 ML CLACKAMAS CO	295,852	
PEARL-MARION NO 1 ML MARION CO	262,359	
PEARL-SHERWOOD NO. 1 & 2 (PEARL-SHERWOOD NO 1 SECTION)	751,728	0
PEARL-SHERWOOD NO. 1 & 2 (PEARL-SHERWOOD NO 2 SECTION)	751,728	2,439
PILOT BUTTE-LA PINE NO 1	1,474,753	68,437
PINE HOLLOW TAP TO THE DALLES-TYGH VALLEY NO 1	15,441	
POMEROY TAP TO TUCANNON RIVER-NORTH LEWISTON NO 1	29,550	1,051
PONDEROSA-PILOT BUTTE NO 1	4,369,374	44,761
PORT ANGELES-SAPPHO NO 1	2,619,357	90,956
POTHOLES-GRAND COULEE NO 1	1,377,363	21,713
POTLATCH TAP TO SHELTON-FAIRMOUNT NO 1	6,824	0
POWERLINE TAPS TO DIAMOND HILL-COBURG	81,433	
PRIEST RIVER TAP TO ALBENI FALLS-SAND CREEK NO 1	297,117	12,782
PROSSER TAP TO GRANDVIEW-RED MOUNTAIN NO 1	719,927	10,366
RADAR TAP (USBR) TO SCOOTENEYTAP	65,675	3,124
RAINBOW VALLEY TAP TO LANE-WENDSON NO 1	152,368	13,781
RALSTON TAP TO EAST COLFAX-LIND	532,216	5,513
RATTLESNAKE-GARRISON NO 1	2,348,224	132,221
RAVER TAP TO SCHULTZ-ECHO LAKE NO 1	922,569	5,653
RAVER-COVINGTON NO 1	2,290,045	59,659
RAVER-COVINGTON NO 2	1,295,592	31,115
RAVER-ECHO LAKE NO 1	2,190,125	15,114
RAVER-PAUL NO 1	11,801,698	150,843
RAVER-PAUL NO 1 ML KING CO	182,765	
RAVER-PAUL NO 1 ML LEWIS CO	86,573	
RAVER-PAUL NO 1 ML PIERCE CO	461,723	
RAVER-PAUL NO 1 ML THURSTON CO	230,862	
RAYMOND-COSMOPOLIS NO 1	10,746,393	37,874
RAYMOND-HENKLE ST. NO 1	85,625	2,416
RAYMOND-WILLAPA RIVER NO 1	387,668	21,778
RED MOUNTAIN-RICHLAND NO 1	367,404	11,958
RED MOUNTAIN-WHITE BLUFFS NO 1	1,197,530	16,944
REDMOND SUBSTATION 230/115KV TIE NO 1	315,227	
REDMOND-BRASADA NO 1	195,642	5,885
REDMOND-PILOT BUTTE NO 1	251,202	16,174
REEDSPORT-FAIRVIEW NO 1	5,325,284	119,021
RESTON-FAIRVIEW NO 2	1,743,020	71,799
RIVERGATE-KEELER NO 1 & 2 (RIVERGATE-KEELER NO 1 SECTION)	512,780	9,531
RIVERLAND-MIDWAY NO 1	21,591	5,616
ROCK CREEK-JOHN DAY NO 1	6,097,654	23,558
ROCK CREEK-JOHN DAY NO 1 ML KLUCKITAT CO	120,333	
ROCK CREEK-JOHN DAY NO 1 ML SHERMAN CO	31,987	
ROCKY FORD-GRAND COULEE NO 1	1,627,129	21,627
ROCKY REACH-COLUMBIA NO 1	1,231,827	24,966
ROCKY REACH-MAPLE VALLEY NO 1	15,011,139	176,973
ROE'S CORNER TAP TO HEYBURN-ADELAIDE NO 1	1,116,651	2,199
ROGUE-GOLD BEACH NO 1	2,736,726	4,822
ROGUE-GOLD BEACH NO 2	4,805,288	68,342
ROSS-ALCOA NO 2 & 4 (ROSS-ALCOA NO 2 SECTION)	136,560	891
ROSS-ALCOA NO 3	1,252,366	1,181
ROSS-CARBORUNDUM NO 1	104,720	4,210
ROSS-LEXINGTON NO 1	2,623,214	62,255
ROSS-RIVERGATE NO 1	558,459	155,891
ROSS-ST JOHNS NO 1	1,623,578	106,204
ROSS-VANCOUVER SHIPYARD NO 1	361,029	4,569
ROUNDUP-LAGRANDE NO 1	2,179,507	101,561

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SACAJAWEA TAP TO ICE HARBOR-FRANKLIN NO 2	217,457	3,520	
SACAJAWEA TAP TO LOWER MONUMENTAL-MCNARY NO 1	2,108,920	4,150	
SACAJAWEA-SUN HARBOR NO 1	31,818	3,520	
SACHEEN-ALBENI FALLS NO 1	1,130,388	35,612	
SALEM-ALBANY NO 1	1,361,290	61,489	
SALEM-ALBANY NO 2	1,240,527	60,319	
SALEM-GRAND RONDE NO 1	5,060,649	29,653	
SAMMAMISH-MAPLE VALLEY NO 1	1,801,866		
SAND CREEK-BONNERS FERRY NO 1 & 2(SAND CREEK-BF NO 2 SECTI	6,647,798	16,389	
SAND CREEK-BONNERS FERRY NO. 1 & 2 (SAND CREEK-BF NO 1 SECT	6,647,804	38,374	
SANTIAM SUBSTATION TRANSF BAYTAP TO SANTIAM-ALBANY NO 1	2,323,017	260	
SANTIAM-ALBANY NO 1	984,717	21,749	
SANTIAM-ALVEY 1 & 2, S-A 1 SECT	3,314,769	56,043	
SANTIAM-ALVEY 1 & 2, S-A 2 SECT	2,987,966	61,041	
SANTIAM-BETHEL NO 1	12,617,338	7,388	
SANTIAM-CHEMAWA NO 1	1,744,710	12,812	
SANTIAM-LYONS UHV XFMR 1	126,000		
SANTIAM-TOLEDO NO 1	4,407,070	133,230	
SANTIAM-TOLEDO NO 1 ML BENTON CO	3,933,508		
SATSOP PARK-COSMOPOLIS NO 1	1,124,071	33,926	
SATSOP-ABERDEEN NO 2	5,398,614	49,774	
SATSOP-ABERDEEN NO 3	2,402,175	18,521	
SATSOP-SHELTON NO 1 ML MASON CO	5,247,630		
SATSOP-SHELTON NO 1 ML THURSTON CO	2,750,305		
SCHRAG TAP TO RUFF-WARDEN	701,079	10,349	
SCHULTZ-ECHO LAKE NO 1	65,603,696	61,492	
SCHULTZ-RAVER NO 1	27,130,703	58,031	
SCHULTZ-RAVER NO 3	10,273,142	38,034	
SCHULTZ-RAVER NO 4	11,338,901	54,065	
SCHULTZ-WAUTOMA NO 1	95,466,530	124,924	
SCOOTENEY TAP TO MIDWAY-BENTON NO 1	337,805	23,425	
SHELTON-FAIRMOUNT NO 1	4,077,852	84,735	
SHELTON-FAIRMOUNT NO 2	3,118,258	56,153	
SHELTON-FAIRMOUNT NO 3	3,179,420	36,068	
SHELTON-FAIRMOUNT NO 4	2,926,202	40,504	
SHELTON-KITSAP NO 2	9,376,899	32,660	
SHELTON-KITSAP NO 3 (MASON CO)	222,316		
SHELTON-KITSAP NO 4	4,003,145	37,222	
SHELTON-SOUTH BREMERTON NO 1	9,302,539	11,237	
SHULTZ-RAVER NO 4 ML KING CO	190,718		
SHULTZ-RAVER NO 4 ML KITTITAS CO	515,646		
SICKLER-SCHULTZ NO 1	11,145,747	41,254	
SICKLER-SCHULTZ NO 1 ML CHELAN COUNTY	144,841		
SICKLER-SCHULTZ NO 1 ML DOUGLAS COUNTY	214,363		
SICKLER-SCHULTZ NO 1 ML KITTITAS COUNTY	220,155		
SIFTON TAP TO N. BONN-ROSS 2	222,180	0	
SIFTON TAP TO NORTH BONNEVILLE-ROSS NO 1	222,180	3,784	
SIFTON-FISHERS ROAD NO 1	55,704	4,553	
SIFTON-LACAMAS NO 1	354	7,449	
SIFTON-ROSS NO 1	226,144	3,443	
SILVERADO TAP TO PORT ANGELES-SAPPHO NO 1	458,627	138	
SLATT-BUCKLEY NO 1	21,015,205	199,231	
SLATT-JOHN DAY NO 1	4,358,495	13,105	93%
SLATT-JOHN DAY NO 1 ML GILLIAM CO	270,276		
SLATT-JOHN DAY NO 1 ML SHERMAN CO	201,410		
SNOHOMISH-BEVERLY PARK NO 3	328,629	5,632	
SNOHOMISH-BEVERLY PARK NO 4	379,809	3,455	
SNOHOMISH-BOTHELL NO 1	451,614	15,518	
SNOHOMISH-BOTHELL NO 2	148,752	2,822	
SNOHOMISH-EVERETT	417,659	1,024	
SNOHOMISH-MURRAY NO 1	429,756	52,336	
SNOHOMISH-PUD NO 9	2,362,466	3,989	
SNOHOMISH-PUD NO. 8	2,377,231	3,810	
SNO-KING TAP TO ECHO LAKE-MONROE NO 1	4,503,601	13,902	
SNO-KING-MAPLE VALLEY NO 1	1,845,243	1,778	
SNO-KING-MAPLE VALLEY NO. 2	651,009	738	
SOUTH ELMA-SATSOP PARK NO 1	201,759	12,483	
SOUTH FORK TAP TO FOREST GROVE-TILLAMOOK NO 1	9,989		
SOUTH TACOMA-COWLITZ NO 1	893,383	16,843	
SOUTH TACOMA-WHITE RIVER NO 1	339,175	23,060	
SPAR CANYON - ROUND VALLEY	1,264,435	33,191	
SPEARFISH TAP TO CHENOWETH-GOLDENDALE NO 1	113,617	10,955	
SPIRIT TAP TO COLVILLE-BOUNDARY NO 1	416,256	6,702	
SPRING CREEK-WINE COUNTRY NO 1	3,721,747	21,784	
ST HELENS-ALLSTON NO 1	5,111,661	27,530	
ST JOHNS TAP TO KEELER-OREGONCITY NO 2	317,198	0	
ST JOHNS-KEELER NO 2	406,700	77,243	
ST JOHNS-ST HELENS NO 1	1,560,732	72,777	
SWAN VALLEY-GOSHEN NO 1	4,291,759	44,511	
SWAN VALLEY-TETON NO 1	2,751,164	68,073	
SWAN VALLEY-TETON NO 2	12,256,729	44,442	
TACOMA-COVINGTON NO 2	1,907,335	28,352	
TACOMA-COVINGTON NO 3	1,240,294	31,367	
TACOMA-COVINGTON NO 4	1,240,294	21,271	

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TACOMA-RAVER NO 1&2 (NO 1 SECTION)	4,567,297	56,905
TACOMA-RAVER NO 1&2 (NO 2 SECTION)	2,332,326	8,560
TAFT-BELL NO 1	84,342,970	241,831
TAFT-HOT SPRINGS NO 1	10,315,472	81,781
TAHKENITCH-GARDINER NO 1	181,891	2,134
TAHKENITCH-REEDSPORT NO 1	421,496	33,380
TANNER TAP TO SNOQUALMIE-LAKE TRADITION NO 1	6,243,005	3,233
TARGHEE TAP TO SWAN VALLEY-TETON NO 1	939,693	42,329
TARGHEE-DRUMMOND NO 1	87,417	134,945
Targhee-Mack's Inn Transmission Lines & Substations	264,201	
THATCHER JUNCTION TAP TO FOREST GROVE-TILLAMOOK NO 1	1,689	
THE DALLES-DISCOVERY NO 1	221,839	4,585
THURSTON-MCKENZIE NO 1	2,435,522	12,027
TILLAMOOK-TRASK RIVER NO 1	358,808	1,517
TIMBER TAP	29,500	
TIMBER TAP TO FOREST GROVE-TILLAMOOK NO 1	573,785	33,722
TOLEDO-WENDSON NO 1	5,931,612	224,338
TOWER ROAD-ALKALI NO 1	430,310	5,425
TRENTWOOD-VALLEY WAY NO 1	249,698	11,223
TROJAN-ALLSTON NO 1	1,595,833	5,692
TROJAN-ALLSTON NO 2	1,584,040	2,543
TUCANNON RIVER-NORTH LEWISTON NO 1	11,818,725	66,832
UNDERWOOD TAP TO BONN-NC 1 & BONN-A 2, BONN-ALCOA TO STR 1	695,184	598
UNDERWOOD TAP TO BONN-NC 1 & BONN-A 2, BONN-NC 1 TO UNDRW S	613,629	47,353
UNITY-HEYBURN NO 1	549,469	14,910
UNITY-WEST BURLEY NO 1	1,931,734	53,831
USK-BOUNDARY NO 1	2,080,111	39,192
VANTAGE-COLUMBIA NO 1	1,207,066	39,974
VANTAGE-HANFORD NO 1 ML BENTON CO	386,552	
VANTAGE-HANFORD NO 1 ML GRANT CO	7,889	
VANTAGE-SCHULTZ NO 1	5,194,512	18,979
VANTAGE-SCHULTZ NO 1 ML KITTAS	42,824	
VERA TAP TO TRENTWOOD-VALLEY WAY NO 1	225,518	13,336
VICTOR TAP TO TARGHEE TAP	96,996	797
WAGNER LAKE TAP TO WILBUR TAP	441,963	24,733
WALLA WALLA-FREEWATER	1,331,932	6,566
WALLA WALLA-PENDLETON NO 1	4,185,671	43,945
WALLA WALLA-TUCANNAN RVIER NO 1 ML WALLA WALLA CO	7,629,916	
WALLA WALLA-TUCANNON RIVER NO 1	4,993,738	44,913
WALLA WALLA-TUCANNON RIVER NO 1 ML COLUMBIA CO	7,162,851	
WALNUT CITY TAP TO FOREST-GROVE-MCMINNVILLE NO 1	202,305	14,427
WAUTOMA-OSTRANDER NO 1	31,681,375	333,608
WAUTOMA-OSTRANDER NO 1 ML CLACKAMAS CO	2,548,784	
WAUTOMA-OSTRANDER NO 1 ML MULTNOMAH CO	428,957	
WAUTOMA-OSTRANDER NO 1 ML SKAMANIA CO	584,941	
WAUTOMA-ROCK CREEK NO 1	8,615,764	99,078
WAUTOMA-ROCK CREEK NO 1 ML BENTON CO	94,912	
WAUTOMA-ROCK CREEK NO 1 ML KLUCKITAT CO	322,701	
WAUTOMA-ROCK CREEK NO 1 ML YAKIMA CO	531,508	
WENDSON-TAHKENITCH NO 1	3,507,825	51,498
WENDSON-TAHKENITCH NO 2	2,343,750	30,573
WEST BURLEY-HEYBURN NO. 1 (FOREIGN OWNED, SEE NOTES)	21,218	12,616
WESTSIDE (AVA)-BELL NO 1	207,587	3,005
WHITE BLUFFS-451B NO 1	1,025,555	3,543
WHITE BLUFFS-RICHLAND NO 1	1,698,054	25,442
WILLOW CREEK-HAWKINS #1	477,053	3,734
WINE COUNTRY-MIDWAY NO 1	2,763,766	14,302
WINTHROP TAP TO TWISP-OKANOGAN	702,769	20,458
WNP1-ASHE NO 2	76,075	3,514
XADAIR TAP TO SALEM-ALBANY NO2	51,854	1,294
Subtotal Lines	2,451,139,644	23,657,137

Substations	Investment (\$)	O&M (\$)	Multi %
ABERDEEN SUBSTATION	5,579,338	326,627	
ACORD SUBSTATION (BENTON REA)	22,142		
ADAIR SUBSTATION(BPA)	771,251	86,388	
ADDY SUBSTATION	7,221,024	167,998	70%
AFTON COGENERATION POWER PLANT	8,654		
AHSAHKA SUBSTATION	22,139	3,274	
AIRWAY HEIGHTS SUBSTATION	27,894	876	
ALBANY SUBSTATION	11,439,511	329,588	88%
ALBENI FALLS SUBSTATION	1,096,932	81,865	75%
ALCOA SUBSTATION	7,623,590	534,656	88%
ALDER METERING POINT	27,765	781	
ALFALFA SUBSTATION	1,615,149	83,863	
ALKALI SUBSTATION	61,692	844	
ALLSTON SUBSTATION	50,051,489	1,996,928	
ALTURAS SUBSTATION	21,364	940	
ALVEY SUBSTATION	23,054,289	666,514	74%
AMES LAKE SUBSTATION	30,075	668	
ANACONDA SUBSTATION	3,438,684	404,414	
ANGUS SUBSTATION (BENTON CO PUD)	15,475	551	
APPLEWAY SUBSTATION	24,992	1,270	
ARCO SUBSTATION(UTAH POWER & LIGHT)	32,413	737	

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ARIEL SUBSTATION	35,332	1,023	
ARM RELIFT SUBSTATION	8,900		
ARMSTRONG SUBSTATION(INLAND POWER & LIGHT)	8,286	922	
ARTONDALE SUBSTATION	88,106	8,235	
ASHE SUBSTATION	29,082,605	1,200,823	90%
ASHLAND SUBSTATION	85,217		
ATHOL SUBSTATION(KOOTENAI ELEC COOP)	19,663	7,591	
AUSTIN SWITCHYARD	13,635	1,961	
BADGER CANYON SUBSTATION	2,026,502	71,275	
BALD MOUNTAIN SUBSTATION	4,043,063	92,656	
BANDON SUBSTATION	3,425,352	162,521	75%
BANGOR SUBSTATION	67,321	2,920	
BANNACK SUBSTATION	109,110	3,216	
BARRETT'S SUBSTATION(VIGILANTEELECTRIC)	28,520		
BAXTER SUBSTATION(SOLD, SEE NOTES))	15,519	2,048	
BEACON SUBSTATION	1,931		
BEAVER BAY SUBSTATION (COWLITZ PUD)	24,843	837	
BEAVER SUBSTATION (PGE)	76,108	11,302	
BEAVER SUBSTATION(TILLAMOOK PUD)	61,093	20,059	
BELL SUBSTATION	73,512,797	3,429,532	
BELLINGHAM SUBSTATION(BPA)	11,711,269	310,840	
BELLINGHAM SUBSTATION(PUGET SOUND ENERGY)	2,432	698	
BENTON CITY SUBSTATION(BENTONCO PUD)	15,267	909	
BENTON SUBSTATION	7,772,465	269,196	
BERRIAN SUBSTATION	25,904		
BERRYDALE SUBSTATION (CLP)	36,801	371	
BERTELSEN SUBSTATION	28,702	280	
BETHEL SUBSTATION	12,410	491	
BETTAS ROAD SUBSTATION	5,183,108	50,383	
BEVERLY PARK SUBSTATION	86,702	7,275	
BIG EDDY SUBSTATION	10,851,303	378,357	14%
BIG FORK SUBSTATION (FEC)	6,087		
BIG HORN SUBSTATION (IBERDOLA)	18,601	21,612	
BIG PASCO	13,215	918	
BIGLOW CANYON SUBSTATION	58,562	11,650	
BINGEN SUBSTATION(KLICKITAT CO PUD)	32,117	1,590	
BLACKROCK SUBSTATION	10,803	1,119	
BLAINE SUBSTATION	128,593	3,489	
BLAKESLEE JUNCTION SWITCHING STATION	1,082,385		
BLANTON ROAD SUBSTATION	22,796	511	
BOARDMAN SUBSTATION	6,926,781	164,185	
BONNER SUBSTATION	45,980	1,728	
BONNERS FERRY SUBSTATION	1,458,704	69,435	64%
BOOTH BEND SUBSTATION	11,060	508	
BOUNDARY SUBSTATION	3,969,456	341,614	
BOX CANYON POWERHOUSE	56,157	1,110	
BOYER SWITCHING STATION	21,947	14,266	
BRASADA SUBSTATION (CENTRAL ELECTRIC COOPERATIVE)	492,476	44,999	
BREMERTON SUBSTATION (PSE)	57,828	176	
BREWSTER SUBSTATION	36,031	473	
BRIDGE SUBSTATION	4,911,447	140,552	
BRIDGEPORT BAR (BOOST)	7,651	2,465	
BRIDGEPORT BAR (PUMP)	8,356		
BRINCKEN'S CORNER SUBSTATION	922,405	43,135	
BROADMOOR SUBSTATION	56,805	1,121	
BROADVIEW SUBSTATION	123,479		
BROOKDALE SUBSTATION(ELMHURSTMUTUAL PWR & LIGHT)	82,392	2,802	
BROOKDALE SUBSTATION(TACOMA PUBLIC UTILITIES)	43,391		
BUCKLEY SUBSTATION	3,262,522	133,110	36%
BURBANK #2 METERING POINT	10,340		
BURBANK #3 METERING POINT	9,282		
BURLEY SUBSTATION(CITY OF BURLEY)	8,862	628	
CABINET GORGE SUBSTATION	86,571	1,097	
CALPINE SUBSTATION	25,548	14,000	
CANAL SUBSTATION	1,774,559	40,325	
CANBY SUBSTATION(BPA)	1,616,374	42,629	
CANBY SUBSTATION(PGE)	28,591	491	
CANBY SUBSTATION(SURPRISE VALLEY ELEC)	84,531	12,033	
CAPE HORN SUBSTATION	28,175	5,418	
CARDWELL SUBSTATION	2,303,416	157,409	
CARLIN SUBSTATION	7,918		
CARLSON SUBSTATION	29,249		
CARLTON SUBSTATION	6,103,198	311,806	
CARMEN POWERHOUSE	31,287	1,072	
CARSON SUBSTATION	2,593	4,155	
CASCADE STEEL SUBSTATION	87,356	1,885	
CATHLAMET SUBSTATION	59,110	4,274	
CEDARVILLE CITY SUBSTATION	22,896		
CEDARVILLE JUNCTION SUBSTATION	731,274	112,775	
CENTRAL FERRY SUBSTATION	1,352,132	69,866	
CENTRALIA MINES SUBSTATION	5,778		
CENTRALIA SUBSTATION	1,680,624	71,664	
CENTRALIA SWITCHING STATION	176,972	847	
CENTRALIA THERMAL POWERHOUSE	15,230	1,333	

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CHALLIS SUBSTATION	26,328		
CHEHALIS SUBSTATION	15,921,614	794,359	
CHELATCHIE SUBSTATION	17,442	624	
CHEMAWA SUBSTATION	16,637,079	1,330,613	
CHEMICAL SUBSTATION	127,756		
CHENEY SUBSTATION	338,981	1,320	
CHENOWETH SUBSTATION	7,290,514	158,951	
CHERRY CREEK SUBSTATION	8,426	5,237	
CHESHIRE SUBSTATION (EPUD)	104,113	1,652	
CHEVRON SUBSTATION	20,231	3,504	
CHEWELAH SUBSTATION	26,994	2,539	
CHIEF JOSEPH SUBSTATION	23,073,926	1,819,530	72%
CHRISTMAS VALLEY SUBSTATION	36,342	624	
CITY VIEW SUBSTATION	29,453	1,485	
CLARK SUB	21,851		
CLARKSTON SUBSTATION	532,252	45,368	
CLATSKANIE SUBSTATION (CLATSKANIE PUD)	12,340	8,596	
CLATSOP SUBSTATION	2,322,572	291,026	
CLAYTON SUBSTATION	28,441	6,990	
CLINTON SUBSTATION (SOLD)	5,411	2,797	
COASTAL ENERGY GENERATING PLANT	10,371	13,885	
COEUR D'ALENE 15TH STREET SUBSTATION	37,103	461	
COFFIN BUTTE GENERATING PLANT	9,770	5,406	
COLD CREEK SUBSTATION	41,821	7,766	
COLLINS LAKE SUBSTATION	15,858		
COLLINS SUBSTATION	18,228	1,559	
COLUMBIA CREST SUBSTATION	15,608	1,417	
COLUMBIA FALLS SUBSTATION -- 115 YARD	3,436,193	444,141	
COLUMBIA FALLS SUBSTATION - 230 KV YARD	12,038,998	63,732	
COLUMBIA SUBSTATION	25,420,672	1,218,316	
COLVILLE SUBSTATION	4,141,976	215,960	
COMBINE HILLS II SUBSTATION (EURUS EGY)	44,832	13,298	
CONDON SUBSTATION	41,086	1,364	
CONDON WIND SUBSTATION(SEAWEST)	72,793	28,665	
CONKELLEY SUBSTATION	5,163,841	210,660	45%
CONNELL SUBSTATION	746,801	13,616	
CORVALLIS SUBSTATION	14,452	437	
COSMOPOLIS SUBSTATION	1,392,400	148,635	
COTTONWOOD METERING POINT(BPA)	54,681	1,809	
COVINGTON SUBSTATION	36,002,595	3,373,883	
COW CREEK SUBSTATION (UIUC)	14,830	982	
COWLITZ FALLS POWERHOUSE	72,665	5,373	
COWLITZ SUBSTATION(TACOMA PUBLIC UTILITIES)	368,188	2,572	
COWLITZ SUBSTATION(BPA)	2,704,197	115,612	
COYOTE SPRINGS SUBSTATION	4,532,741	4,806	
CRAIGMONT SUBSTATION	56,390	2,935	
CRESTON SUBSTATION(BPA)	1,523,306	79,630	
CRESWELL SUBSTATION	31,204	735	
CURLEW SUBSTATION	10,717	913	
CUSICK SUBSTATION	1,806,564	66,119	
CUSTER SUBSTATION	36,147,567	2,286,811	
DARBY SUBSTATION	23,882	2,307	
DAYTON SUBSTATION(BPA & COLUMBIA REA)	52,456	1,227	14%
DAYTON SUBSTATION(MASON COUNTY)	42,516	1,945	
DE MOSS SUBSTATION(BPA)	1,613,994	145,537	
DECLO METERING POINT	43,494	2,725	
DEER PARK SUBSTATION	461,637	34,311	
DELENA SUBSTATION	60,981	5,749	
DELIGHT SUBSTATION	34,597	1,322	
DELL SUBSTATION	30,156	5,132	
DEXTER SUBSTATION (LANE ELECTRIC)	24,525	1,375	
DILLARD SUBSTATION	17,335	1,274	
DILLON SUBSTATION	28,985	2,894	
DILLON-SALMON SUBSTATION	110,343	1,134	
DISCOVERY BAY SUBSTATION	22,832	234	
DISCOVERY SUBSTATION (N. WASCO PUD)	124,219	31,607	
DIVIDE SUBSTATION	22,748	1,883	
DIXON SUBSTATION	3,481,862	93,797	
DOE 251W SUBSTATION	12,982	844	
DOE 451A SUBSTATION	11,839	32	
DOE 451B SUBSTATION	21,042	4,694	
DONALD NYS SUBSTATION	9,822		
DOOLEY SUBSTATION (WINDY POINT)	25,389	25,768	
DORENA SUBSTATION	195,315	53,166	
DOVER SWITCHING STATION	18,324	351	
DOWER SUBSTATION	30,249	290	
DRAIN SUBSTATION	2,664,627	119,742	91%
DREWSEY METERING POINT (IPCO)	6,039		
DRISCOLL SUBSTATION	6,515,691	246,437	
DROP PLANT PUMPING PLANT	8,779		
DRUMMOND MONTANA SUBSTATION	4,352		
DRUMMOND SUBSTATION	10,838,386	645,798	
DUCKABUSH SUBSTATION	37,560	1,613	
DUTCH CANYON SUBSTATION	15,947		

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DWORSHAK SUBSTATION	20,299,284	347,262	82%
EAGLE POINT METERING POINT	23,907	1,098	
EAST BENCH SUBSTATION	29,447	791	
EAST COLFAX SUBSTATION	6,054	2,393	
EAST FOSSIL SUBSTATION	50,617	492	
EAST GREENACRES #1 METERING POINT	9,045		
EAST GREENACRES #2 METERING POINT	7,420		
EAST GREENACRES #3 METERING POINT	8,778		
EAST HILLS SUBSTATION	537,847	34,800	
EAST OMAK SUBSTATION	3,994,043	278,867	
EAST PINE SUBSTATION	19,963		
EAST SUBSTATION	4,388		
ECHO LAKE SUBSTATION	31,905,404	353,827	
EGYPT SUBSTATION	29,691	612	
EIGHT MILE CREEK METERING POINT	229,192		
ELBE SUBSTATION	27,620	5,101	
ELLENSBURG SUBSTATION	1,239,887	289,675	
ELM STREET SUBSTATION	14,496	7,263	
ELMA SUBSTATION	686,902	71,045	
ELMAR SUBSTATION	33,016	1,550	
ELMO SUBSTATION(MVP)	48,586	1,390	
ELTOPIA BRANCH CANAL POWERHOUSE	14,336	397	
ELTOPIA SUBSTATION(SOLD)	24,590	1,012	
ELY SUBSTATION	35,905	368	
EMERGENCY OPERATING FACILITY	44,194	9,921	
ENDERSBY SUBSTATION	9,311	7,466	
ENERGIZER SUBSTATION (KPUD)	23,969	33,515	
ENTERPRISE SUBSTATION	21,193	701	
EUGENE SUBSTATION	6,050,935	162,896	
EUREKA SUBSTATION (LINCOLN ELEC)	37,497	5,608	
EVERGREEN PUMP STATION	24,923	3,225	
EWAN SUBSTATION	8,238	140	
FAIRCHILD AIR FORCE BASE NORTH SUBSTATION	25,055	1,383	
FAIRCHILD AIR FORCE BASE SOUTH SUBSTATION	34,734	4,083	
FAIRFIELD SUBSTATION	22,634		
FAIRMOUNT SUBSTATION	15,089,480	371,058	
FAIRVIEW SUBSTATION(BPA)	11,843,483	792,214	
FEEDVILLE SUBSTATION (UEC)	6,548	865	
FERN HILL SUBSTATION	13,666	1,806	
FERN RIDGE SUBSTATION (LANE ELECTRIC)	16,530	1,698	
FERNDALE SUBSTATION	17,315	751	
FIDALGO SUBSTATION	4,642,101	173,713	
FILBERT SUBSTATION(CITY OF FOREST GROVE)	15,622		
FINLEY SUBSTATION (BENTON COUNTY PUD)	10,473	455	
FIRST LIFT SUBSTATION	28,131		
FIRST STREET SUBSTATION	69,550	1,897	
FISHERS ROAD SUBSTATION	6,861		
FLATHEAD SUBSTATION(BPA & FLATHEAD ELEC)	5,621,981	185,193	
FLORENCE SUBSTATION (CENTRAL LINCLON PUD)	17,351	1,152	
FORDS PRAIRIE SUBSTATION(CITYOF CENTRALIA)	38,555	1,014	
FORDS PRAIRIE SUBSTATION(LEWIS CO PUD)	25,993	3,613	
FOREST GROVE SUBSTATION	5,137,437	96,977	
FORT ROAD METERING POINT	23,768	575	
FORT ROCK SUBSTATION (MIDSTATE ELECTRIC COOP)	2,580		
FOSSIL SUBSTATION	1,215,681	151,974	
FOSTER CREEK SUBSTATION(NESPELEM VALLEY ELEC)	56,093	11,502	
FOSTER CREEK SUBSTATIONDOUGLAS CO PUD)	33,214		
FOSTER WELLS SUBSTATION	87,713	491	
FOUR LAKES SUBSTATION	67,720	7,059	
FOURTH AND HERALD SUBSTATION	18,003		
FRANKLIN SUBSTATION	7,363,748	777,061	80%
FRANZ HOLMES SUBSTATION	152,954	1,680	
FREEWATER SUBSTATION(BPA)	1,737,632	26,301	
FRENCHMAN HILLS SUBSTATION	14,788	554	
FRENCHMAN SPRINGS SUBSTATION	19,285	1,892	
FRENCHTOWN SUBSTATION (SOLD)	24,770	3,298	
FROMAN SUBSTATION	10,025	1,345	
GARIBALDI SUBSTATION(TILLAMOOK PUD)	350,237	12,104	
GARRISON SUBSTATION	47,482,147	1,040,173	66%
GATES OF THE MOUNTAINS METERING POINT	7,949	3,290	
GEISEL MONUMENT SUBSTATION	37,685	930	
GEM STATE HYDRO PLANT	10,421	397	
GEORGIA PACIFIC SUBSTATION(PSE)	69,838	477	
GIG HARBOR SUBSTATION	59,167	3,058	
GILMER SUBSTATION(KLICKITAT CO PUD)	22,504	550	
GLASGOW SUBSTATION	30,939	2,080	
GLENOMA SUBSTATION	52,158	1,057	
GLENWOOD SUBSTATION	40,100	1,094	
GOBLE SUBSTATION	29,349	746	
GOLD BAR SUBSTATION	20,053	466	
GOLD BEACH SUBSTATION	129,528	22,841	
GOLDENDALE SUBSTATION(BPA)	1,220,930	78,601	
GOOSE LAKE SUBSTATION(NESPELEM VALLEY ELEC)	6,433	3,277	
GORMLEY SUBSTATION (MCMINNVILLE W & L)	47,378		

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GOSHEN SUBSTATION(PACIFICORP)	2,479,756		
GOSHEN SUBSTATION(UTAH POWER & LIGHT)	2,694,047	529,264	
GRAND COULEE #2 METERING POINT	10,705	6,814	
GRAND COULEE SUBSTATION	385,862	5,451	
GRAND RONDE SUBSTATION	31,005	1,011	
GRANDVIEW SUBSTATION	3,490,379	193,697	
GRANGEVILLE SUBSTATION	1,434		
GRANTSDALE SUBSTATION	5,648	337	
GRAYS HARBOR FACILITY NO 1 (GRAYS HARBOR ENE)	11,252	11,715	
GRAYS RIVER SUBSTATION	61,344	7,689	
GREAT WESTERN MALTING COMPANYSUBSTATION (RETIRED)	9,499		
GREEN VALLEY SUBSTATION	2,787,339	36,220	
GREENTIMBER SUBSTATION	37,716	329	
GROUSE CREEK METERING POINT	13,002	1,944	
GUM STREET SUBSTATION	20,554	702	
H2F SUBSTATION	23,867	98	
HAAKENSON SUBSTATION	106,056	2,786	
HAGEN SUBSTATION	48,927	333	
HALF MOON SUBSTATION(INLAND POWER & LIGHT)	20,346	574	
HAMPTON SUBSTATION	73,268	2,037	
HANFORD SUBSTATION	24,766,759	634,302	
HANNA SUBSTATION(DOUGLAS CO PUD)	5,942		
HAPPY VALLEY SUBSTATION	3,420,224	133,763	
HARNEY SUBSTATION(BPA)	7,673,059	200,385	
HARVALUM SUBSTATION	3,172,717	140,900	
HARVEST WIND SUBSTATION (KPUJ)	25,283	24,595	
HARVEY SUBSTATION	292,372		
HASKILL SUBSTATION	35,947	19,685	
HASKINS METERING POINT	7,710	3,515	
HAT ROCK SUBSTATION	5,040,308	97,948	
HATTON SUBSTATION(SOLD)	21,007	2,452	
HATWAI SUBSTATION	10,175,667	593,106	
HAUSER SUBSTATION(BPA)	185,541	34,671	
HAUSER SUBSTATION(CENTRAL LINCOLN PUD)	27,964	168	
HAWK ROAD METERING POINT	17,340	906	
HAWKINS SUBSTATION	10,130	237	
HAY CANYON SUBSTATION (IBERDOLA)	37,783	15,038	
HAY MILL SUBSTATION (UNITED ELEC & CITY OF RUPERT)	228,286	39,341	
HAYDEN SUBSTATION	35,420	294	
HAYFORD SUBSTATION(INLAND POWER & LIGHT)	14,000	681	
HEBO SUBSTATION	389,712	55,608	
HEDGES SUBSTATION(BENTON CO PUD)	14,917	478	
HEGLAR SUBSTATION	34,766	5,807	
HEIMARK METERING POINT	37,535		
HEPPNER GENERATING STATION	27,447		
HERMISTON BUTTE (UEC)	20,111	2,755	
HEYBURN SUBSTATION	9,366,751	234,896	
HIDEAWAY SUBSTATION (LANE ELECTRIC)	10,025	2,023	
HIGHLANDS SUBSTATION(BENTON CO PUD)	13,750	961	
HILLTOP SUBSTATION	27,323	103,214	
HILTON LAKE SUBSTATION	28,003	1,053	
HINES SUBSTATION	32,533	1,708	
HOLCOMB SUBSTATION	623,072	90,092	
HOOD RIVER SUBSTATION	608,322	54,369	49%
HOODOO SUBSTATION	9,803	778	
HOPE VALLEY METERING POINT	13,403		
HOPKINS RIDGE SUBSTATION	29,306	5,931	
HORN BUTTE SUBSTATION (INVENERGY WIND)	29,306	21,060	
HORN RAPIDS SUBSTATION	30,595	5,822	
HORSE HEAVEN SUBSTATION	2,982,891	109,209	
HOT SPRINGS SUBSTATION	18,374,362	1,560,181	
HUGHS SUBSTATION(SALEM ELEC COOP)	40,198	5,973	
IDAHO FALLS SUBSTATION	2,983	6,771	
IDAHOME SUBSTATION	464,176	40,455	
IMRIE SUBSTATION (PACW)	28,340	34,024	
INTALCO SUBSTATION	659,933	25,152	4%
IONE SUBSTATION	501,424	65,529	64%
IRBY SUBSTATION	337,734	26,532	
IRRIGRO SUBSTATION	4,436		
JENKINS SUBSTATION	183,601	1,346	
JERICHO PUMPING PLANT	36,866	762	
JIGGS-LEE METERING POINT	22,773		
JIM CREEK SUBSTATION	20,733	1,070	
JOHN CURTIS SUBSTATION	76,330	1,710	
JOHN DAY CONSTRUCTION SUBSTATION	38,025	1,190	
JOHN DAY SUBSTATION	18,359,456	394,040	46%
JOHN DAY SUBSTATION - 230 YARD	28,114,749	148,339	
JOHNS PRAIRIE SUBSTATION	36,662	539	
JONES CANYON SUBSTATION	16,745,285	139,408	
JONES SUBSTATION	5,407	254	
JULIAETTA SUBSTATION	11,005	1,286	
JUNCTION CITY SUBSTATION(BLACHLY-LANE CO ELEC COOP)	5,106	1,118	
JUNIPER CANYON I SUBSTATION (IR INC.)	8,697	13,822	
KALISPELL SUBSTATION(BPA)	5,339,069	283,312	

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KAMIAH SUBSTATION	19,894	1,970	
KEELER SUBSTATION	63,892,506	3,796,005	
KELLER SUBSTATION	464,356	28,967	
KELTON SUBSTATION	21,825	4,739	
KENNEDY SUBSTATION	34,007	4,616	
KENNEWICK SUBSTATION(BENTON CO PUD)	23,070	961	
KERR SUBSTATION(BPA)	1,148,217	87,649	
KETTLE FALLS SUBSTATION	5,249	2,295	
KITSAP SUBSTATION	12,858,338	428,027	
KLONDIKE SCHOOLHOUSE SUBSTATION (IBERDOLA)	27,902	8,622	
KLONDIKE SUBSTATION	99,054	(29,955)	
KNAPPA SVENSEN SUBSTATION	2,188	318	
KOOSKIA SUBSTATION	21,459	1,086	
LA GRANDE SUBSTATION	7,320,433	141,047	
LA PINE SUBSTATION	11,685,487	262,103	
LAGOON SUBSTATION	22,101	558	
LAGRANDE POWERHOUSE	18,997		
LAKE BAY SUBSTATION	7,193	1,721	
LAKE GROVE SUBSTATION	62,954	1,027	
LAKE LENORE #1 IRRIGATION PUMP	12,122	353	
LAKE LENORE #2 IRRIGATION PUMP	12,736	507	
LAKESIDE SUBSTATION (CLP)	21,534	5,161	
LAKESIDE SUBSTATION (FEC)	22,744	1,645	
LAKEVIEW SUBSTATION	59,059	1,223	
LANCASTER SUBSTATION(BPA)	365,490	146,274	
LANE SUBSTATION	14,081,932	499,309	
LARENE SUBSTATION (INLAND)	440	536	
LATERAL 4 METERING POINT	42,935	10,605	
LATHAM SUBSTATION	89,194	916	
LEBANON SUBSTATION	1,414,297	61,122	
LEVEY SUBSTATION	488,961	99,037	
LEWIS & CLARK SUBSTATION	7,015		
LEXINGTON SUBSTATION	3,877,023	293,420	
LIBBY SUBSTATION(BPA)	5,480,815	398,239	82%
LIBBY SUBSTATION(BPA/FLATHEADELEC)	674,984	44,442	
LINDEN SUBSTATION (KPUD)	9,771		
LION MOUNTAIN SUBSTATION	47,515	4,494	
LITTLE FALLS GENERATING PLANT	3,547		
LITTLE GOOSE SUBSTATION	9,987,953	227,082	80%
LOCUST SUBSTATION	32,812	5,074	
LODHOLM SUBSTATION	59,434	1,745	
LOLO SUBSTATION(MPC)	16,060	742	
LONE PINE SUBSTATION(PACIFICORP)	26,796		
LONGVIEW SUBSTATION	32,857,948	622,706	
LOOKINGGLASS SUBSTATION(BPA)	329,093	11,143	
LOOKOUT POINT SUBSTATION	1,660,895	38,326	75%
LOPEZ ISLAND SUBSTATION(BPA)	6,976,972	359,908	
LOST RIVER SUBSTATION	1,796,729	68,607	
LOW GAP METERING POINT	11,133	396	
LOWER BULB GENERATING PLANT	16,027		
LOWER GRANITE SUBSTATION	6,286,197	231,545	75%
LOWER MONUMENTAL SUBSTATION	16,526,624	247,469	88%
LOWER WOODCHUCK SUBSTATION	34,740	834	
LUHR BEACH SUBSTATION	58,733	953	
LUMP GULCH SUBSTATION	20,312	3,125	
LYLE SUBSTATION	48,978	905	
LYN PUMPS PUMPING PLANT	28,149		
MABTON SUBSTATION	1,352,795	28,461	
MACKAY SUBSTATION	198,886		
MACKS INN SUBSTATION	429,291	106,581	
MADISON SUBSTATION	1,559,262	57,166	
MAPLE VALLEY SUBSTATION	67,243,376	1,059,291	
MAPLETON SUBSTATION	387,996	55,199	68%
MARENGO SUBSTATION	28,220	1,417	
MARION SUBSTATION	32,498,176	1,362,094	91%
MARTIN CREEK SUBSTATION	4,342,343	83,418	
MASHEL PRAIRIE SUBSTATION (OHOP)	131,931	6,179	
MASON SUBSTATION(MASON CO PUDNO 3)	13,759	1,083	
MAUPIN SUBSTATION	1,872,509	165,251	
MAYFIELD POWERHOUSE	3,167		
MAYFIELD SWITCHYARD	202,128	6,288	
MAYVIEW SUBSTATION (INLAND POWER)	100,985	1,252	
MCCULLOUGH SUBSTATION	29,139	592	
MCKENZIE SUBSTATION(EWEB)	47,720	1,304	
MCLOUGHLIN SUBSTATION	329,193	94,786	
MCMINNVILLE SUBSTATION	1,913,615	189,197	
MCNARY SUBSTATION	45,035,199	1,253,471	88%
MESA SUBSTATION(SOLD, SEE NOTES)	91,656	1,945	
METALINE FALLS SUBSTATION(PEND OREILLE CO PUD)	14,425	459	
MIDWAY SUBSTATION(BPA)	13,660,138	739,649	
MILAN SUBSTATION	27,672	871	
MILL PLAIN SUBSTATION	3,331		
MILL PRIMARY SUBSTATION	44,409		
MILLER SUBSTATION(LAKEVIEW LIGHT & PWR)	123,121	4,122	

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MILTON SUBSTATION(CITY OF MILTON FREEWATER)	141,908	17,039	
MINICO SUBSTATION (UNITED ELECTRIC)	12,493	5,824	
MINT FARM SWITCHING STATION	12,566	22,059	
MISSION SUBSTATION	4,255	316	
MIST SUBSTATION	50,488	15,425	
MOAB SUBSTATION	27,824	758	
MOHLER SUBSTATION(TILLAMOOK PUD)	29,278	16,110	
MONROE SUBSTATION	38,863,604	1,498,509	
MORRISON SUBSTATION	17,456		
MOSCOW SUBSTATION	13,897	1,950	
MOSSYROCK SUBSTATION	17,122		
MOSSYROCK SWITCHYARD	47,727	3,843	
MOUNTAIN HOME SUBSTATION(IDAHO POWER)	67,338	3,747	
MOUNTAIN VIEW SUBSTATION(MASON CO PUD NO 3)	29,452	427	
MOXEE SUBSTATION	2,368,692	112,715	
MOYIE DAM	32,179	500	
MT. HALL SUBSTATION	15,208	2,536	
MT. VERNON SUBSTATION(SPRINGFIELD UTILITY BOARD)	7,307	467	
MURRAY SUBSTATION	9,164,934	862,904	
NAPAVINE SUBSTATION	848,895	70,318	
NARROWS SUBSTATION	96,416	1,094	
NASELLE SUBSTATION	4,091,803	191,807	
NEFF ROAD METERING POINT	46,637	714	
NEWCOMB SUBSTATION(SOLD)	28,362	539	
NEWPORT SUBSTATION(INLAND POWER)	262,468	1,639	
NINE CANYON SUBSTATION (BENTON PUD)	85,656	17,017	
NINE MILE SUBSTATION (FPLE)	42,950	15,755	
NORTH BEND SUBSTATION	39,582	653	
NORTH BONNEVILLE SUBSTATION	6,518,101	264,654	63%
NORTH BROOKINGS SUBSTATION	439,706	21,962	
NORTH LEWISTON SUBSTATION	20,900	701	
NORTH PASCO SUBSTATION	59,484	2,769	
NORTH PORT SUBSTATION (CCL)	25,067	514	
NORTH POWDER SUBSTATION	4,392		
NOTI CREEK SUBSTATION	114,195	7,324	
NOXON CONSTRUCTION SUBSTATION	171,881	1,133	
NOXON DAM POWERHOUSE	50,959		
NOXON SWITCHYARD	3,248	3,275	
OAK KNOLL SUBSTATION	17,403	1,450	
OAKRIDGE SUBSTATION (LANE ELECTRIC)	156,911	10,970	
ODESSA SUBSTATION	816,570	54,723	
O'GARA SUBSTATION	1,305	1,527	
OHOP SUBSTATION	61,175	7,390	
OKANOGAN SUBSTATION	10,025	2,417	
OLD LOWER GENERATING PLANT	7,514		
OLINDA SUBSTATION	100,792		
OLNEY METERING POINT	35,014	170	
OLYMPIA SUBSTATION	32,734,115	1,337,423	
OLYMPIC PIPELINE	12,580	540	
OMAK SUBSTATION	13,613	955	
OPHIR SUBSTATION	11,385		
OPPORTUNITY SUBSTATION	15,961	1,154	
OREGON CITY SUBSTATION	4,969,744	200,432	
OREMET SUBSTATION	31,352		
OSTRANDER SUBSTATION	30,780,723	1,483,524	
OTHELLO SUBSTATION	69,527		
OUTBACK SOLAR GENERATING PLANT (OUTBACK SOLAR, LLC)	26,907		
OVANDO SUBSTATION	1,485,661	78,160	
OXBOW SUBSTATION(PACIFIC CO PUD)	14,180	1,918	
PACIFIC SUBSTATION	39,385	3,795	
PACKWOOD POWERHOUSE	21,911	6,353	
PACKWOOD SUBSTATION	59,119		
PARKDALE SUBSTATION	628,684	25,805	51%
PARKLAND SUBSTATION	20,439		
PASCO SUBSTATION	97,900	283	
PATEROS SUBSTATION	11,455		
PATERSON SUBSTATION	19,705		
PATTON VALLEY METERING POINT	17,235		
PATU SUBSTATION	5,875		
PAUL SUBSTATION	14,103,128	754,829	
PE ELL SUBSTATIONLEWIS CO PUD)	16,913	2,906	
PEARL SUBSTATION	39,770,497	1,437,386	
PEBBLE SPRINGS SUBSTATION (IBERDOLA)	192,912		
PENDERGAST SUBSTATION	5,409	222	
PENDLETON SUBSTATION	43,283	46,160	
PHILLIPS SUBSTATION	51,248	722	
PIHL ROAD METERING POINT	12,687	226	
PIKE METERING POINT	46,084	2,469	
PILOT ROCK SUBSTATION	166,943	961	
PINE HOLLOW SUBSTATION	9,950	2,311	
PIONEER SUBSTATION	26,068		
PLEASANT HILL SUBSTATION	25,938	296	
PLEASANT VIEW SUBSTATION	6,044	319	
PLUMMER SUBSTATION	55,840	1,113	

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PLYMOUTH SUBSTATION	41,633	528	
POINT OF ROCKS SUBSTATION	47,044	1,209	
POMEROY SUBSTATION(BPA)	85,125	57,557	
PONDEROSA SUBSTATION(BPA)	11,102,113	277,624	
POPCORN HILL METERING POINT	22,116		
PORT ANGELES SUBSTATION(BPA)	17,438,884	1,020,647	
PORT ANGELES SUBSTATION(ITT RAYONIER)	465,014		
PORT ORFORD SUBSTATION	38,845	4,264	9%
PORT TOWNSEND SUBSTATION	54,323	4,112	
POTHOLES EAST CANAL GENERATING PLANT	14,299	862	
POTHOLES SUBSTATION	4,230,633	313,397	
POTLATCH SUBSTATION(AVISTA)	34,912	2,789	
POTLATCH SUBSTATION(BPA)	932,667	51,550	83%
POWERLINE SUBSTATION	22,086	431	
PRAIRIE SUBSTATION(WWP & KOOTENAI ELEC COOP)	15,691	474	
PRIEST RIVER SUBSTATION(AVISTA)	30,389	950	
PRIEST RIVER SUBSTATION(BPA)	784,499	42,353	
PROSSER SUBSTATION(BENTON CO PUD)	12,087	540	
PURDY SUBSTATION	59,163	1,930	
PYRAMID SUBSTATION	26,868	432	
QUARTZ SUBSTATION (IDAHO POWER)	9,766	3,946	
QUINCY SUBSTATION	16,867		
RADAR PUMPING PLANT	13,763	1,140	
RAFT SUBSTATION	2,177	13,869	
RAINIER SUBSTATION	146,713	2,511	
RALSTON SUBSTATION(SOLD)	5,604	907	
RANDLE SUBSTATION	32,099		
RATHDRUM SUBSTATION	28,219	8,757	
RATTLESNAKE ROAD SUBSTATION (HORIZON WIND)	15,520		
RATTLESNAKE SUBSTATION(BENTONREA)	43,829	2,440	
RAVER SUBSTATION	43,324,210	1,010,807	
RAYMOND SUBSTATION	2,852,353	292,865	
REATA SUBSTATION(BENTON CO PUD)	12,863	1,764	
RED MOUNTAIN SUBSTATION	4,273,462	88,868	
REDMOND SUBSTATION(BPA)	35,225,686	904,531	
REEDSPORT SUBSTATION (BPA)	2,068,210	87,111	80%
REPUBLIC SUBSTATION	537,888	33,694	
RESTON SUBSTATION	347,850	38,831	
RICHLAND SUBSTATION	2,451,184	138,434	
RILEY SUBSTATION	50,777	1,362	
RIMROCK LAKE SUBSTATION (BENTON REA)	30,789	1,396	
RIVER ROAD GENERATION PLANT SUBSTATION	9,743	18,071	
RIVERBEND LANDFILL GENERATING PLANT (WM LLC)	9,771	4,659	
RIVERFRONT SUBSTATION	21,522	775	
RIVERGATE SUBSTATION	4,468	789	
RIVERTON SUBSTATION(CITY OF HEYBURN)	22,577	3,510	
ROBBINS ROAD METERING POINT	20,394	1,439	
ROCK CREEK SUBSTATION	42,772,819	339,577	
ROCKY BROOK POWERHOUSE	2,016	2,191	
ROCKY REACH SUBSTATION	4,230,844	41,167	
ROE'S CORNER SUBSTATION	38,236	9,454	
ROGUE SUBSTATION	7,129,655	330,856	
ROSALIA SUBSTATION	28,425	775	
ROSS SUBSTATION	13,906,082	1,184,162	
ROUND VALLEY SUBSTATION	1,571,272	50,684	
ROUNDUP SUBSTATION	5,356,636	308,503	
ROXBORO SUBSTATION	21,585	2,063	
ROY L ZIMMERMAN SUBSTATION	45,535	808	
ROZA SUBSTATION	3,368		
RUBY STREET SUBSTATION (FRANKLIN CO PUD)	60,722	1,229	
RUSSELL SMITH POWERHOUSE	11,906	611	
SACAJAWEA SUBSTATION	23,064,384	111,178	99%
SACHEEN SUBSTATION	2,151,593	82,455	
SAGEHILL SUBSTATION	1,506	324	
SALEM ALUMINA SUBSTATION(SALEM ELEC COOP)	18,224	843	
SALEM SUBSTATION(4,847,599	336,076	
SAMMAMISH SUBSTATION	1,911		
SAMUELS SUBSTATION	42,869	1,302	
SAND CREEK SUBSTATION	5,921,250	163,035	
SAND DUNES SUBSTATION	3,510,776		
SAND HILL CRANE SUBSTATION	70,897	3,109	
SANDPOINT SUBSTATION(BPA)	870,402	113,868	77%
SANTIAM SUBSTATION	15,084,336	957,761	95%
SAPPHO SUBSTATION	1,673,235	91,745	
SATSOP PARK SUBSTATION (GHPUD)	171,077	15,709	
SATSOP SUBSTATION(BPA)	19,294,515	339,959	
SATUS 2 SUBSTATION	9,693		
SATUS 3 SUBSTATION	28,953		
SCAPPOOSE SUBSTATION	39,482	1,254	
SCARCELLO SUBSTATION (KOOTENAI ELECTRIC)	10,025	1,518	
SCHULTZ SUBSTATION	64,386,115	723,212	
SCOGGINS VALLEY METERING POINT	27,685	1,011	
SCOOTENEY SUBSTATION	933,355	61,826	77%
SEDRO WOOLLEY SUBSTATION	41,393	3,798	

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SETTERS SUBSTATION	18,961	614	
SEVEN FEATHERS SUBSTATION (UIUC)	10,387	1,437	
SHANO SUBSTATION	32,045	553	
SHELTON SUBSTATION	27,020,426	620,265	
SHEPHERDS FLAT SUBSTATION (CAITHNESS SF)	60,724		
SHORT MOUNTAIN GENERATING PLANT	17,681	623	
SICKLER SUBSTATION	11,312,117	1,953,586	
SIFTON SUBSTATION	5,637,094	321,971	
SILVER BOW SUBSTATION	1,249,287	95,200	
SILVER CREEK SUBSTATION	2,084,546	215,970	
SILVER STAR SUBSTATION	44,433	2,626	
SILVERADO SUBSTATION (CLALLAM CO. PUD)	119,823		
SKOOKUM SUBSTATION	68,054	1,687	
SLATT SUBSTATION	26,985,058	518,502	89%
SMITH CREEK POWERHOUSE	4,962	881	
SMITHSON SUBSTATION (KITITAS CO PUD)	29,513		
SNIPES SUBSTATION	90,899	3,249	
SNIPTION SUBSTATION	47,195	899	
SNOHOMISH SUBSTATION	40,614,125	1,695,435	
SNO-KING SUBSTATION	31,179,451	1,115,212	
SNYDER SUBSTATION	24,522	321	
SODA SPRINGS SUBSTATION	6,336		
SOUTH BUTTE SUBSTATION	12,037		
SOUTH CUT BANK SUBSTATION	11,955		
SOUTH ELMA SUBSTATION	342,096	13,708	
SOUTH FORK SUBSTATION	49,334	703	
SOUTH SLOPE SUBSTATION	31,283	712	
SOUTH SUBSTATION (SEATTLE CITY LIGHT)	62,772		
SOUTH TACOMA SUBSTATION	4,284,160	216,301	
SPALDING SUBSTATION	51,421	786	
SPANGLE SUBSTATION	18,957	896	
SPAR CANYON SUBSTATION	544,905	89,683	
SPAW SUBSTATION	11,078		
SPEARFISH SUBSTATION(KLICKITAT CO PUD)	35,741	2,418	
SPRING CREEK SUBSTATION	9,530,317	126,342	
SPRINGFIELD SUBSTATION(SPRINGFIELD UTILITY BOARD)	23,401		
SPRINGHILL SUBSTATION(INLAND POWER & LIGHT)	23,544	676	
ST. HELENS SUBSTATION	18,502	5,034	
ST. JOHNS SUBSTATION	7,165,499	665,024	
STEVENS DRIVE SUBSTATION(CITYOF RICHLAND)	51,835	68	
STEVENSON SUBSTATION	25,896	3,660	
STEVENSVILLE SUBSTATION	2,086	337	
STILLWATER SUBSTATION(LINCOLNELECTRIC COOP)	37,172	3,924	
SUBSTATION FG	15,482	13,130	
SUGAR MILL SUBSTATION	185,017	2,737	
SULLIVAN SUBSTATION(VERA WATER & POWER)	5,684	677	
SUMAS SUBSTATION	13,840	2,532	
SUMMER LAKE SUBSTATION	2,269,369	124,947	43%
SUMNER SUBSTATION	22,970	3,871	
SUN HEAVEN NO. 2 SUBSTATION	31,152	381	
SUNNYSIDE PORT SUBSTATION	35,471		
SUNSET ROAD SUBSTATION (BENTON CO PUD)	26,467	1,540	
SWAN VALLEY SUBSTATION	5,358,768	139,253	92%
SWEETWATER SUBSTATION	22,846	2,146	
TACOMA SUBSTATION	17,088,837	981,240	92%
TAFT SUBSTATION	34,179,384	553,979	
TAHKENITCH SUBSTATION	6,999,388	178,178	
TAPTEAL SUBSTATION	92,685	530	
TARBELL SUBSTATION	18,665	329	
TARGHEE SUBSTATION	1,595,611	199,157	
TARGHEE TAP SWITCHING STATION	317,710	3,335	
TARKIO SUBSTATION (SOLD)	3,886	2,070	
TAYLOR FLATS SUBSTATION	7,012	880	
TEANAWAY SUBSTATION	398	554	
TECOMA METERING POINT	15,357	7,957	
TETON SUBSTATION	2,914,590	203,127	
THAYER DRIVE SUBSTATION(CITY OF RICHLAND)	85,951	3,375	
THE DALLES SUBSTATION	2,378,051	159,228	
THOMPSON FALLS SUBSTATION	41,428	1,520	
THURSTON SUBSTATION	27,476	1,561	
TIDE FLATS SUBSTATION	(1,389)		
TILLAMOOK SUBSTATION	7,803,817	399,613	
TIMBER SUBSTATION	722,020	63,104	
TINCUP SUBSTATION	559,127	39,052	
TOLEDO SUBSTATION	12,291,641	453,269	
TOSTON SUBSTATION	24,600	3,945	
TOWNSEND METERING POINT	35,194	1,947	
TRASK RIVER SUBSTATION	19,987	13,090	
TREGO SUBSTATION(LINCOLN ELECTRIC COOP)	454,948	51,826	
TRENTWOOD SUBSTATION	3,405,368	100,503	49%
TROUT CREEK SUBSTATION	45,108	704	
TROUTDALE SUBSTATION(BPA)	30,315,836	733,644	
TROY SUBSTATION	114,273	8,779	12%
TRUMBULL CREEK SUBSTATION	12,078	771	

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TUCANNON RIVER SUBSTATION	3,851,588	140,808	
TUM TUM SUBSTATION	21,889	1,476	
TWILIGHT SUBSTATION	20,840	148	
TWISP SUBSTATION	(630)	1,527	
TWISP SUBSTATION	66,883		
TYEE SUBSTATION	86,912	3,694	
TYGH VALLEY SUBSTATION (WASCO ELEC. COOP)	27,349	1,395	
U. S. PLYWOOD SUBSTATION	15,723		
UKIAH SUBSTATION	81,846	1,078	
UNDERWOOD SUBSTATION	29,277	4,448	
UNDERWOOD TAP AUTO-SECTIONALIZING STATION	698,308	14,175	
UNITY SUBSTATION (IDAHO POWERCOMPANY)	6,894		
UNITY SUBSTATION(BPA)	1,559,777	98,050	
UPPER GENERATING PLANT	17,829		
USK SUBSTATION(BPA)	84,338	84,051	
VALHALLA SUBSTATION	3,500,495	343,534	92%
VALLEY SUBSTATION(RAFT RIVER ELEC COOP)	23,392	3,088	
VANCOUVER SHIPYARD SUBSTATION	26,421		
VANTAGE STATE PARK METERING POINT	20,238		
VANTAGE SUBSTATION	25,297,651	534,062	
VAUGHN SUBSTATION	29,287	4,075	
VERA SUBSTATION (VERA W&P, INLAND P&L)	10,025	2,522	
VICTOR SUBSTATION (RAVALLI COUNTY ELEC COOP)	6,943	763	
VICTOR SUBSTATION(FALL RIVER RURAL ELEC COOP)	81,618	1,281	
VIEW SUBSTATION	13,906	592	
VINSON METERING POINT	27,323	828	
VISTA SUBSTATION	25,231	368	
WAGNER LAKE SUBSTATION	489,897	35,179	
WAHLUKE SUBSTATION	10,343		
WALLA WALLA SUBSTATION(BPA)	10,333,966	260,662	
WALLA WALLA SUBSTATION(PACIFICORP)	224,061		
WALNUT CITY SUBSTATION(CITY OF MCMINNVILLE)	9,653	669	
WALTON SUBSTATION	21,204	2,608	6%
WARDEN POLE METERING POINT	14,752	1,016	
WARDEN POLE NO 2 METERING POINT	13,121		
WARNER SUBSTATION	3,535,383	123,323	
WARREN SUBSTATION	594,774	93,523	
WAUTOMA SUBSTATION	23,443,640	306,732	
WEIPPE SUBSTATION	18,934	1,026	
WELLS SUBSTATION(IDAHO POWER)	53,246	2,891	
WENDSON SUBSTATION	6,491,249	307,738	
WEST BURLEY SUBSTATION(UNITEDELEC COOP)	156,561	7,336	
WEST JOHN DAY SUBSTATION	32,991	1,582	
WEST PLAINS SUBSTATION (IP&L)	13,630	464	
WEST REXBURG METERING POINT	21,513		
WEST WELLS SUBSTATION	18,036	1,056	
WEST WENDOVER METERING POINT	59,200	3,307	
WESTCOTT SUBSTATION (CANBY ELECTRIC)	22,976	586	
WESTMORELAND SUBSTATION	5,482		
WESTSIDE SUBSTATION(BPA)	6,662,868	114,303	
WEYERHAEUSER INDUSTRIAL WAY WEYCO NO 1 SUBSTATION (COWLITZ)	20,731		
WHEAT FIELD SUBSTATION (WFWPP)	9,771		
WHEELER SUBSTATION	10,359		
WHITCOMB SUBSTATION	95,864	190	
WHITE BLUFFS SUBSTATION	8,423,453	181,150	
WHITE CREEK SUBSTATION (KPUD)	37,195	23,678	
WHITE RIVER SUBSTATION	10,703		
WHITE SWAN SUBSTATION(BENTON REA)	10,025	5,552	
WHITEHALL SUBSTATION	48,014	4,311	
WILLAKENZIE SUBSTATION	32,420		
WILLARD JOHNSON SUBSTATION(HOOD RIVER ELEC)	22,483	631	
WILLIS SUBSTATION (KPUD)	28,033	21,941	
WILSON RIVER SUBSTATION	46,669	1,287	
WINCHESTER SUBSTATION	3,851	407	
WINDISHAR SUBSTATION	32,018	38,783	
WINE COUNTRY SUBSTATION	6,342,281	83,372	
WINNEMUCCA SUBSTATION	134,454	4,428	
WINTHROP SUBSTATION	1,167,692	39,594	76%
WOODLAND SWITCHING STATION	250,630	3,790	
WREN SUBSTATION	1,407,981	55,007	
WYNOOCHEE HYDRO PLANT	73,355	939	
ZEPHYR HEIGHTS SUBSTATION	46,009	884	
Subtotal Subs	2,182,567,325	85,247,873	
Total Integrated Network	4,633,706,969	108,905,010	

Southern Intertie Facilities

Transmission Lines	Investment (\$)	O&M (\$)	Multi %
ALVEY-DIXONVILLE NO 1	25,192,398		
BIG EDDY 500/230KV TIE NO 1	51,352	232	
BIG EDDY-CELILO NO 1	1,284,742	2,023	
BIG EDDY-CELILO NO 2	1,463,788	3,285	
BIG EDDY-CELILO NO 3	373,697	739	

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BIG EDDY-CELILO NO 4	249,132	739	
BUCKLEY-GRIZZLY NO 1	9,961,133	28,265	57%
BUCKLEY-MARION NO 1	20,369,871	49,991	50%
CAPTAIN JACK-MALIN NO 1	844,154	14,077	
CAPTAIN JACK-OLINDA NO 1	7,393,503	6,671	
CELILO-SYLMAR NO 1	27,012,691	482,838	
COYOTE SPRINGS-SLATT NO 1	328,931	1,836	12%
DIXONVILLE-MERIDIAN	32,272,663	8,703	
GRIZZLY-CAPTAIN JACK NO 1	20,239,751	291,963	
GRIZZLY-CAPTAIN JACK NO 1 ML KLAMATH CO	942,373		
GRIZZLY-CAPTAIN JACK NO 1 ML LAKE CO	1,106,264		
GRIZZLY-SUMMER LAKE NO 1	18,828,765	59,793	57%
GRIZZLY-SUMMER LAKE NO 1 (CROOK CO)	143,465		57%
GRIZZLY-SUMMER LAKE NO 1 (DESCHUTES CO)	169,530		57%
GRIZZLY-SUMMER LAKE NO 1 (LAKE CO)	339,092		57%
JOHN DAY-BIG EDDY NO 1	2,008,149	7,243	
JOHN DAY-GRIZZLY NO 1	10,760,175	249,937	
JOHN DAY-GRIZZLY NO 1 (JEFFERSON CO)	388,527		
JOHN DAY-GRIZZLY NO 1 (SHERMAN CO)	549,297		
JOHN DAY-GRIZZLY NO 1 (WASCO CO)	401,925		
JOHN DAY-GRIZZLY NO 2	9,149,545	123,882	
JOHN DAY-GRIZZLY NO 2 ML JEFFERSON CO	384,011		
JOHN DAY-GRIZZLY NO 2 ML SHERMAN CO	576,018		
JOHN DAY-GRIZZLY NO 2 ML WASCO CO	411,442		
MARION-ALVEY NO 1	4,456,110	51,232	50%
SLATT-JOHN DAY NO 1	328,108	987	7%
Subtotal Lines	197,980,600	1,384,435	

Substations	Investment (\$)	O&M (\$)	Multi %
ALVEY SUBSTATION	8,015,579	231,735	26%
BAKEOVEN COMPENSATION STATION	22,868,102	103,463	
BIG EDDY 500 KV SWITCHYARD	11,512,241	164,258	
BIG EDDY SUBSTATION	60,579,852	2,112,265	81%
BUCKLEY SUBSTATION	5,842,191	238,359	64%
CAPTAIN JACK SUBSTATION	39,970,149	378,913	
CELILO CONVERTER NO 3	880,128	10,277	
CELILO CONVERTER NO 4	864,806	11,802	
CELILO DC CONVERTER STATION	300,727,223	9,942,542	
CHIEF JOSEPH SUBSTATION	1,060,040	83,591	3%
DIXONVILLE SUBSTATION	7,837,854		
FORT ROCK COMPENSATION STATION	15,955,175	244,256	
GRIZZLY SUBSTATION	31,354,626	1,004,419	
JOHN DAY SUBSTATION	11,158,900	239,498	28%
MALIN SUBSTATION	24,430,327	680,471	
MARION SUBSTATION	3,378,622	141,608	9%
MERIDIAN SUBSTATION(PACIFICORP)	7,458,872		
ROUND MOUNTAIN SUBSTATION	65,046		
SAND SPRING COMPENSATION STATION	17,102,457	233,554	
SLATT SUBSTATION	3,230,461	62,071	11%
SUMMER LAKE SUBSTATION	3,008,234	165,627	57%
SYCAN COMPENSATION STATION	14,453,018	255,808	
SYLMAR DC CONVERTER STATION	2,784		
Subtotal Subs	591,756,688	16,304,519	
Total Southern Intertie	789,737,289	17,688,953	

Eastern Intertie Facilities

Transmission Lines	Investment (\$)	O&M (\$)	Multi %
BROADVIEW-GARRISON NO 1	47,280,913	130,414	
BROADVIEW-GARRISON NO 2	46,990,310	42,175	
Subtotal Lines	94,271,222	172,589	
Substations	Investment (\$)	O&M (\$)	Multi %
COLSTRIP SUBSTATION	43,099	1,239	
GARRISON SUBSTATION	24,182,624	529,760	34%
Subtotal Subs	24,225,723	530,999	
Total Eastern Intertie	118,496,946	703,588	

Utility Delivery Facilities

Transmission Lines	Investment (\$)	O&M (\$)	Multi %
ALBANY-BUREAU OF MINES NO 1	23,660	2,226	
HOOD RIVER-COOP SERVICE NO 1	23,808	1,538	
Subtotal Lines	47,468	3,763	
Substations	Investment (\$)	O&M (\$)	Multi %
ACTON SUBSTATION	163,592	27,271	
ALBANY SUBSTATION	1,587,757	45,746	12%
ALDERWOOD SUBSTATION	668,497	20,094	
BANDON SUBSTATION	1,143,260	54,244	25%
BONNERS FERRY SUBSTATION	837,266	39,854	36%

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BURBANK SUBSTATION	619,504	45,672	
BURNT WOODS SUBSTATION	319,577	54,410	
CASCADE LOCKS SUBSTATION	386,614	57,648	
DAVIS CREEK SUBSTATION	545,221	25,430	
DIXIE SUBSTATION	519,936	41,615	
DRAIN SUBSTATION	277,801	12,484	9%
EAGLE LAKE SUBSTATION	380,534	39,746	
EAST GRANGEVILLE SUBSTATION	683,793	67,349	
GARDINER SUBSTATION	744,369	89,051	
GLADE SUBSTATION	497,771	32,210	
HARRISBURG SUBSTATION	186,326	55,066	
HOOD RIVER SUBSTATION	627,932	56,122	51%
IONE SUBSTATION	285,241	37,277	36%
LACLEDE SUBSTATION	31,715	20,768	
LANGLOIS SUBSTATION	1,101,133	32,499	
LYNCH CREEK SUBSTATION	1,271,810	62,626	
MAPLETON SUBSTATION	183,012	26,037	32%
MINIDOKA SUBSTATION	385,789	19,240	
MONMOUTH SUBSTATION	1,244,686	77,057	
MOUNTAIN AVENUE SUBSTATION	2,098,603	45,487	
MOYIE SUBSTATION	65,707	24,082	
NECANICUM SUBSTATION	127,264	15,403	
NORTH BENCH SUBSTATION	527,396	12,577	
NORTH BUTTE SUBSTATION	168,857	13,863	
PARKDALE SUBSTATION	604,963	24,831	49%
PORT ORFORD SUBSTATION	407,963	44,779	91%
POTLATCH SUBSTATION(BPA)	188,784	10,434	17%
REEDSPORT SUBSTATION (BPA)	518,873	21,854	20%
RINGOLD SUBSTATION	522,279	48,296	
SANDPOINT SUBSTATION(BPA)	260,551	34,086	23%
SCOOTENEY SUBSTATION	280,744	18,597	23%
SELLE SUBSTATION	565,619	31,095	
STATELINE SUBSTATION	141,727	97,312	
STEILACOOM SUBSTATION	1,101,095	26,406	
SUN HARBOR SUBSTATION	1,420,980	33,945	
SURPRISE LAKE SUBSTATION	760,077	58,734	
SWAN VALLEY SUBSTATION	447,947	11,640	8%
TROY SUBSTATION	815,848	62,677	88%
TUMBLE CREEK SUBSTATION	959,049	26,488	
TWO MILE ROAD SUBSTATION	1,517,678	69,347	
WALTON SUBSTATION	321,529	39,541	94%
WINTHROP SUBSTATION	361,348	12,253	24%
YAAK SUBSTATION	375,561	30,660	
Subtotal Subs	29,253,578	1,853,903	
Total Utility Delivery	29,575,108	1,893,444	

DSI Delivery Facilities

Transmission Lines	Investment (\$)	O&M (\$)	Multi %
None			
Subtotal Lines	0	0	
Substations			
CONKELLEY SUBSTATION	6,258,285	255,308	55%
INTALCO SUBSTATION	16,403,546	625,198	96%
TRENTWOOD SUBSTATION	3,547,673	104,703	51%
Subtotal Subs	26,209,504	985,208	
Total DSI Delivery	26,209,504	985,208	

Unsegmented Facilities (segmented pro-rata)

Transmission Lines (allocated according to direct line segmentation)	Investment (\$)	O&M (\$)	Multi %
BALD MOUNTAIN-CONDIT FIBER SYSTEM	6,914		
BELLINGHAM-CUSTER FIBER SYSTEM	128,524		
BELL-NOXON FIBER SYSTEM	44,711		
BPA SYSTEM-LINES	6,101,263	1,036,317	
CHENOWETH-HARVEY NO 1	81,982	1,556	
CHENOWETH-HARVEY NO 2	81,980	748	
COVINGTON-BELL FIBER SYSTEM	80,126		
COVINGTON-MAPLE VALLEY FIBER SYSTEM	17,342		
FIDALGO-BELLINGHAM FIBER SYSTEM (BLACK ROCK CABLE INC)	360,930		
FRANKLIN-MUNRO FIBER SYSTEM	185,538		
GRAND COULEE 115KV-GRAND COULEE RS FIBER SEG	18,644		
JACKSON TAP TO CANAL-SECOND LIFT NO. 1(SOLD)	47,234	101	
KEELER-ALVEY FIBER SYSTEM	1,018,867		
KEELER-COVINGTON FIBER SYSTEM	14,035		
LANE-FAIRVIEW FIBER SYSTEM	3,435		
Miscellaneous (Inactive, Retired in Place)	621,940	976	
NOXON-TAFT FIBER SYSTEM	357,479		
PEARL-TROUTDALE FIBER SYSTEM	113,714		
REEDSPORT-TAHKENITCH FIBER SYSTEM	24,936	103,554	
ROSS-FRANKLIN FIBER SYSTEM	3,312,768		
ROSS-MALIN FIBER SYSTEM	4,670,521		

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TUMBLE CREEK-HALL RIDGE NO.1	610,574	54,844	
VANTAGE-HANFORD NO 1	0	90,411	
Subtotal Lines	17,903,457	1,288,507	
Substations (allocated according to direct sub segmentation)	Investment (\$)	O&M (\$)	Multi %
ADDY SUBSTATION	3,092,383	71,945	30%
ALBION SUBSTATION	1,031	2,571	
ALCOA SUBSTATION	1,075,016	75,393	12%
BPA SYSTEM-METERS	29,831		
DAYTON SUBSTATION(BPA & COLUMBIA REA)	335,075	7,835	86%
KIONA HYDROMET STATION	6,709		
Miscellaneous (Inactive, Retired in Place)	335,409		
NORWAY SUBSTATION	289,018	67,438	
ROSS HARMONY TRAINING SUBSTATION	2,847,803		
SYSTEM WIDE	3,867,732	16,560,434	
TACOMA SUBSTATION	1,417,368	81,385	8%
VALHALLA SUBSTATION	325,162	31,911	8%
Subtotal Subs	13,622,536	16,898,911	
Other Locations (allocated according to direct sub segmentation)	Investment (\$)		
ALVEY MAINTENANCE HEADQUARTERS	5,491,090		
AUGSPURGER MOUNTAIN RADIO STATION	11,893		
BALD MOUNTAIN RADIO STATION	130,284		
BELL MAINTENANCE HEADQUARTERS	536,007		
BIDDLE BUTTE RADIO STATION	163,480		
BLUE RIDGE RADIO STATION	91,805		
BLYN RADIO STATION	49,179		
BPA SYSTEM	14,820,814		
BPA SYSTEM-MICROWAVE &RADIO STATIONS	182,612		
BPA SYSTEM-NON ELECTRIC PLANT& MISC	4,919,823		
BURLEY MAINTENANCE HEADQUARTERS	6,969		
CAPE BLANCO RADIO STATION (BPA)	58,688		
CHEHALIS MAINTENANCE HEADQUARTERS	88,062		
CHEMAWA MAINTENANCE HEADQUARTERS	74,117		
COVINGTON MAINTENANCE HEADQUARTERS	15,113		
COYOTE HILLS RADIO STATION	25,472		
CULDESAC RADIO STATION	6,995		
DEL RIO RADIO STATION	13,084		
DITTMER BPA SYSTEM CONTROL CENTER	15,564,103		
EASTERN CONTROL CENTER	32,523		
EUGENE C. STARR COMPLEX	9,922,339		
GRAND COULEE RADIO STATION	47,372		
GRANITE MOUNTAIN RADIO STATION	144,812		
GREEN MOUNTAIN PASSIVE REPEATER SITE	3,007		
HORSE ROCK RADIO STATION	(2,444)		
KALISPELL MAINTENANCE HEADQUARTERS	29,664		
KEELER MAINTENANCE HEADQUARTERS	40,199		
KENNEWICK RADIO STATION	49,374		
LAKESIDE RADIO STATION	91,184		
LEWISTON MAINTENANCE HEADQUARTERS	59,008		
LONGVIEW ANNEX I	819,953		
LONGVIEW MAINTENANCE HEADQUARTERS	6,038,256		
LOWELL BUTTE RADIO STATION	7,559		
MALAGA RADIO STATION	17,384		
MALIN MAINTENANCE HEADQUARTERS	398,113		
MARYS PEAK RADIO STATION	5,002		
MEGLER RADIO STATION	11,556		
MILLER PEAK RADIO STATION	117,099		
Miscellaneous (Inactive, Retired in Place)	111,542		
MT. HEBO RADIO STATION	12,244		
MUNRO BPA SYSTEM CONTROL CENTER	3,444,116		
NASELLE RIDGE RADIO STATION	295,505		
NORTH BEND MAINTENANCE HEADQUARTERS	723,564		
NORTH BONNEVILLE ANNEX	29,495		
ODELL BUTTE RADIO STATION	92,507		
OLYMPIA MAINTENANCE HEADQUARTERS	166,376		
OSTRANDER PASSIVE REPEATER SITE	25,022		
PASCO MAINTENANCE HEADQUARTERS	89,312		
REDMOND MAINTENANCE HEADQUARTERS	247,649		
ROCKDALE PASSIVE REPEATER N1 SITE	85,587		
ROCKDALE RADIO STATION	358,292		
ROCKY RIDGE RADIO STATION	114,415		
ROOSEVELT RADIO STATION	13,534		
ROSS AMPERE BUILDING	60,525		
ROSS COMPLEX	24,268,692		
ROSS FOG TEST BUILDING	67,848		
ROSS HEATLINE	5,254,267		
ROSS MAINTENANCE HEADQUARTERS	12,095		
ROSS RADIO STATION	8,615		
ROSS TOOLS AND EQUIPMENT BUILDING	676,726		
SCHULTZ MAINTENANCE HEADQUARTERS	1,377,094		
SEATTLE RADIO STATION	3,939		
SICKLER MAINTENANCE HEADQUARTERS	50,012		

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SKYROCKET RADIO STATION	6,509
SNOHOMISH MAINTENANCE HEADQUARTERS	58,551
SOUTH MOUNTAIN RADIO STATION	2,770
SPOKANE HANGAR	75,378
SQUAK MOUNTAIN RADIO STATION	4,272
TACOMA PUBLIC UTILITIES DISPATCH CENTER	36,618
TACOMA RADIO STATION	59,709
WALKER MOUNTAIN RADIO STATION	625,240
Subtotal Other	<u>98,539,567</u>

Emergency Stock (allocated according to direct sub segmentation)	Investment (\$)
ROSS WAREHOUSE	11,896,045
Subtotal Emergency Stock	<u>11,896,045</u>

Depreciable Land

Substations (segmented to Integrated Network)	Investment (\$)
NOXON CONSTRUCTION SUBSTATION	1
OKANOGAN SUBSTATION	14,156
SIFTON SUBSTATION	12,810
Subtotal Subs	<u>26,967</u>

Transmission Lines (segmented to Integrated Network)	Investment (\$)
ALBANY-BURNT WOODS NO 1	307,119
ASHE-SLATT NO 1	19,806
BELL-ADDY NO 1	5,046
BELL-BOUNDARY NO 3	5,046
BELL-LANCASTER NO 1	8,276
BIG EDDY-CHENOWETH NO 1	387,831
BIG EDDY-CHENOWETH NO 2	387,596
BIG EDDY-SPRING CREEK NO 1	391,887
CHEHALIS-OLYMPIA NO 1	793
CHEHALIS-RAYMOND NO 1	47,011
CHIEF JOSEPH-EAST OMAK NO 1	10,724
CHIEF JOSEPH-MONROE NO 1	141,953
CHIEF JOSEPH-SNOHOMISH NO 3	31,581
COLUMBIA-ELLENSBURG NO 1	181,965
DE MOSS-FOSSIL NO 1	320
DWORSHAK PH-OROFINO NO 1	400
EAST OMAK TAP TO GRAND COULEE-FOSTER CREEK NO 1	174,817
FAIRVIEW-BANDON NO 2	1,602
FIDALGO-LOPEZ ISLAND NO 5	63,802
FLATHEAD-HOT SPRINGS NO 1	10,728,941
FOREST GROVE-TILLAMOOK NO 1	1,731
FRANKLIN-BADGER CANYON NO 1	1,432
GARRISON-ANACONDA NO 1	1,524
GOSHEN-DRUMMOND NO 1	3,924
GRAND COULEE-BELL NO 5	2,114,751
GRAND COULEE-HANFORD NO 1	14,375
GRAND COULEE-OKANOGAN NO 2	470
HARVALUM-BIG EDDY NO 1	19,142,567
HORSE HEAVEN-HARVALUM NO 1	387,596
HOT SPRINGS-RATTLESNAKE NO 1	6,007,072
HUNGRY HORSE-CONKELLEY NO 1	6,043
KEELER-OREGON CITY NO 2	8,729
KELLER TAP TO GRAND COULEE-OKANOGAN NO 2	3,200
KLONDIKE SCHOOLHOUSE-JOHN DAY NO 1	657,883
LANCASTER-NOXON NO 1	82,527
LIBBY-BONNERS FERRY NO 1	5,851
LOWER MONUMENTAL-MCNARY NO 1	1,071
MCNARY-ROSS NO 1	387,596
OLYMPIA-SATSOP NO 3	27,986
OSTRANDER-PEARL NO 1	45,358
PALISADES-CATTLE CREEK NO 1	91,948
PAUL-ALLSTON NO 2	236
RAVER-COVINGTON NO 2	387,596
RAYMOND-COSMOPOLIS NO 1	36,335
ROCKY REACH-MAPLE VALLEY NO 1	216,568
ROSS-LEXINGTON NO 1	50,376
ROUNDUP-LAGRANDE NO 1	645,809
SANTIAM-TOLEDO NO 1	78,029
SCHULTZ-WAUTOMA NO 1	2,277,742
SPIRIT TAP TO COLVILLE-BOUNDARY NO 1	24,206
SWAN VALLEY-TETON NO 1	54,679
TAFT-BELL NO 1	133,069

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TUCANNON RIVER-NORTH LEWISTON NO 1	862,880
WALLA WALLA-PENDLETON NO 1	126,393
WALLA WALLA-TUCANNON RIVER NO 1	1,340
WAUTOMA-OSTRANDER NO 1	1,747
WAUTOMA-ROCK CREEK NO 1	391,431
Subtotal Lines segmented to Integrated Network	47,178,588

Transmission Lines (segmented to Generation Integration)	Investment (\$)
ANDERSON RANCH-MOUNTAIN HOME NO 1	60,166
DETROIT-SANTIAM NO 1	677
Subtotal Lines segmented to Integrated Network	60,843

Facilities segmented pro-rata according to segmented lines and subs	Investment (\$)
COVINGTON-MAPLE VALLEY FIBER SYSTEM	23,437
HAYSTACK BUTTE RADIO STATION	387,596
HOT SPRINGS-GARRISON FIBER SYSTEM	58,561
Miscellaneous (Inactive, Retired in Place)	195
ROSS-FRANKLIN FIBER SYSTEM	97,757
Subtotal segmented pro-rata	567,546

Facilities allocated to general plant (Account 389)	Investment (\$)
APLEGATE BUTTE RADIO STATION	49,780
BOISTFORT PEAK RADIO STATION(WEYERHOUSER)	9,081
CAPE BLANCO RADIO STATION (BPA)	118,992
CAPITOL PEAK RADIO STATION(BPA)	1,916
DEAD INDIAN MOUNTAIN RADIO STATION	72,672
ELLIS RADIO STATION	6,824
GRAND COULEE-SCHULTZ NO 1	24,380
HAYSTACK BUTTE RADIO STATION	750
LA PINE SUBSTATION	18,619
OLYMPIA-GRAND COULEE NO 1	16,745
ROSS-LEXINGTON NO 1	32,522
SANTIAM-TOLEDO NO 1	93
SEVEN MILE HILL METEOROLOGICAL TOWER	15,105
SICKLER PASSIVE REPEATER SITE	913
Subtotal general plant	368,392

Ancillary Service Facilities

Communication and Control Equipment ***	Investment (\$)
ABERDEEN SUBSTATION	124,433
ADAIR SUBSTATION(BPA)	2,942
ADDY SUBSTATION	270,287
ALBANY SUBSTATION	19,130
ALBENI FALLS SUBSTATION	5,807
ALCOA SUBSTATION	47,905
ALFALFA SUBSTATION	5,205
ALLSTON SUBSTATION	265,594
ALVEY SUBSTATION	1,097,447
ANACONDA SUBSTATION	164,488
ASHE SUBSTATION	234,277
BANDON SUBSTATION	16,566
BEAVER SUBSTATION (PGE)	347,008
BELL SUBSTATION	766,600
BELLINGHAM SUBSTATION(BPA)	21,653
BENTON SUBSTATION	14,301
BETTAS ROAD SUBSTATION	213,160
BIDDLE BUTTE RADIO STATION	19,866
BIG EDDY 500 KV SWITCHYARD	345,912
BIG EDDY SUBSTATION	1,464,768
BOARDMAN SUBSTATION	143,981
BONNERS FERRY SUBSTATION	151,071
BONNEVILLE BUILDING PORTLAND	92,338
BONNEVILLE POWERHOUSE #1	310,681
BOUNDARY SUBSTATION	55,264
BPA HEADQUARTERS BUILDING	6,225
BPA SYSTEM	5,815,092
BPA SYSTEM-NON ELECTRIC PLANT& MISC	21,043,102
BRASADA SUBSTATION (CENTRAL ELECTRIC COOPERATIVE)	187,017
BRIDGE SUBSTATION	34,676
BUCK BUTTE RADIO STATION	8,923
BUCKLEY SUBSTATION	44,620
CALPINE SUBSTATION	170,566
CAPTAIN JACK SUBSTATION	76,789
CARDWELL SUBSTATION	91,579
CARLTON SUBSTATION	143,120
CASCADE STEEL SUBSTATION	7,187
CELILO DC CONVERTER STATION	9,208,195
CHEHALIS RADIO STATION	2,057

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CHEHALIS SUBSTATION	328,874
CHEMAWA SUBSTATION	256,993
CHENOWETH SUBSTATION	30,194
CHIEF JOSEPH SUBSTATION	46,909
COLUMBIA FALLS ALUMINUM COMPANY SUBSTATION	19,459
COLUMBIA FALLS SUBSTATION - 230 KV YARD	385,522
COLUMBIA SUBSTATION	463,846
COLVILLE SUBSTATION	11,883
CONDON SUBSTATION	29,512
CONDON WIND SUBSTATION(SEAWEST)	283,503
CONKELLEY SUBSTATION	130,294
CONNELL SUBSTATION	14,474
COSMOPOLIS SUBSTATION	69,807
COVINGTON SUBSTATION	147,447
COWLITZ SUBSTATION(BPA)	177,515
COYOTE SPRINGS SUBSTATION	22,177
CRESTON SUBSTATION(BPA)	69,343
CULDESAC RADIO STATION	533
CUSICK SUBSTATION	74,316
CUSTER SUBSTATION	330,386
DE MOSS SUBSTATION(BPA)	509,045
DEER PARK SUBSTATION	3,886
DITTMER BPA SYSTEM CONTROL CENTER	80,327,926
DRAIN SUBSTATION	22,237
DRISCOLL SUBSTATION	46,177
DRUMMOND SUBSTATION	230,117
DWORSHAK POWERHOUSE	132,704
DWORSHAK SUBSTATION	131,479
EAST OMAK SUBSTATION	164,853
EASTERN CONTROL CENTER	3,697
EASTSIDE SYSTEM CONTROL CENTER(PSE)	8,768
ECHO LAKE SUBSTATION	70,699
EUGENE C. STARR COMPLEX	31,743
EUGENE SUBSTATION	75,533
FAIRMOUNT SUBSTATION	66,191
FAIRVIEW SUBSTATION(BPA)	205,282
FIDALGO SUBSTATION	6,872
FLATHEAD SUBSTATION(BPA & FLATHEAD ELEC)	292,381
FOREST GROVE SUBSTATION	112,995
FORT ROCK COMPENSATION STATION	406
FORT ROCK SUBSTATION (MIDSTATE ELECTRIC COOP)	27,484
FRANKLIN SUBSTATION	247,785
FREEWATER SUBSTATION(BPA)	15,432
GARRISON SUBSTATION	1,874,531
GOSHEN SUBSTATION(UTAH POWER & LIGHT)	231,030
GRAND COULEE 115 KV SWITCHYARD	869,968
GRAND COULEE 230 KV SWITCHYARD	709,551
GRAND COULEE 500 KV SWITCHYARD	147,351
GRAND COULEE RADIO STATION	208,028
GRAND COULEE SUBSTATION	211,505
GRANDVIEW SUBSTATION	13,048
GREEN PETER SUBSTATION	17,205
GRIZZLY SUBSTATION	24,261
HANFORD SUBSTATION	915,989
HAPPY CAMP RADIO STATION(PG&E)	44,805
HARNEY SUBSTATION(BPA)	142,960
HARVALUM SUBSTATION	87,669
HARVEY SUBSTATION	13,444
HATWAI SUBSTATION	63,305
HAY CANYON SUBSTATION (IBERDOLA)	52,792
HEYBURN SUBSTATION	14,446
HILLTOP SUBSTATION	30,653
HOOD RIVER SUBSTATION	98,499
HORN BUTTE SUBSTATION (INVENERGY WIND)	21,766
HORSE HEAVEN SUBSTATION	135,366
HOT SPRINGS SUBSTATION	172,041
HUNGRY HORSE POWERHOUSE	468,842
INTALCO SUBSTATION	19,480
IONA BUTTE RADIO STATION	2,590
JOHN DAY SUBSTATION	515,753
JONES CANYON SUBSTATION	570,325
KALISPELL SUBSTATION(BPA)	31,178
KEELER SUBSTATION	64,713
KENNEWICK RADIO STATION	3,749
KITSAP SUBSTATION	112,892
LA GRANDE SUBSTATION	69,987
LA PINE SUBSTATION	31,226
LANCASTER SUBSTATION(BPA)	181,691
LANE SUBSTATION	69,052
LEXINGTON SUBSTATION	427,143
LIBBY SUBSTATION(BPA)	30,624
LITTLE GOOSE POWERHOUSE	26,599
LITTLE GOOSE SUBSTATION	861,512
LONGVIEW SUBSTATION	490,281

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LOOKOUT POINT SUBSTATION	168,496
LOPEZ ISLAND SUBSTATION(BPA)	6,079
LOST RIVER SUBSTATION	9,581
LOWER GRANITE SUBSTATION	423,147
LOWER MONUMENTAL SUBSTATION	799,040
MACKS INN SUBSTATION	8,757
MALIN MAINTENANCE HEADQUARTERS	59,089
MALIN SUBSTATION	121,224
MAPLE VALLEY SUBSTATION	136,293
MARION SUBSTATION	50,889
MARTIN CREEK SUBSTATION	42,765
MAUPIN SUBSTATION	50,782
MCLOUGHLIN SUBSTATION	77,460
MCMINNVILLE SUBSTATION	10,910
MCNARY SUBSTATION	579,109
MIDWAY SUBSTATION(BPA)	18,480
MONMOUTH SUBSTATION	3,517
MONROE SUBSTATION	222,755
MOXEE SUBSTATION	36,140
MT. HEBO RADIO STATION	30,899
MUNRO BPA SYSTEM CONTROL CENTER	11,362,415
MURRAY SUBSTATION	20,792
NAPAVINE SUBSTATION	170,420
NASELLE SUBSTATION	220,459
NINE CANYON SUBSTATION (BENTON PUD)	209,461
NINE MILE SUBSTATION (FPLE)	266,961
NORTH BONNEVILLE SUBSTATION	241,495
NOXON CONSTRUCTION SUBSTATION	982
OLYMPIA SUBSTATION	60,331
OREGON CITY SUBSTATION	15,282
OSTRANDER PASSIVE REPEATER SITE	1,213
OSTRANDER SUBSTATION	19,385
PALISADES POWERHOUSE	31,408
PAUL SUBSTATION	284,179
PEARL SUBSTATION	152,709
PLUM RADIO STATION	60,317
PONDEROSA SUBSTATION(BPA)	3,987
PORT ANGELES SUBSTATION(BPA)	307,221
PORT ORFORD SUBSTATION	1,650
RAVER SUBSTATION	72,009
RAYMOND SUBSTATION	73,048
RED MOUNTAIN SUBSTATION	353,542
REDMOND SUBSTATION(BPA)	170,089
REEDSPORT SUBSTATION (BPA)	347,724
RICHLAND SUBSTATION	173,512
ROCK CREEK SUBSTATION	167,443
ROCKY REACH SWITCHYARD	10,008
ROSS COMPLEX	11,052
ROSS SUBSTATION	72,916
ROUND VALLEY SUBSTATION	9,332
ROUNDUP SUBSTATION	103,350
SACAJAWEA SUBSTATION	11,318
SAND CREEK SUBSTATION	24,113
SAND DUNES SUBSTATION	7,208
SANDPOINT SUBSTATION(BPA)	14,513
SANTIAM SUBSTATION	52,080
SAPPHO SUBSTATION	4,868
SATSOP PARK SUBSTATION (GHPUD)	10,920
SATSOP SUBSTATION(BPA)	108,841
SCHULTZ SUBSTATION	137,683
SEDRO WOOLLEY SUBSTATION	25,481
SHANO SUBSTATION	4,255
SHELTON SUBSTATION	61,607
SICKLER SUBSTATION	181,871
SIFTON SUBSTATION	97,766
SILVER CREEK SUBSTATION	225,802
SKYROCKET RADIO STATION	8,941
SNOHOMISH SUBSTATION	277,715
SNO-KING SUBSTATION	130,140
SOUTH TACOMA SUBSTATION	213,815
SPAR CANYON SUBSTATION	8,749
SPRING CREEK SUBSTATION	34,581
ST. JOHNS SUBSTATION	34,628
STEILACOOM SUBSTATION	2,911
SUMMER LAKE SUBSTATION	35,875
SWAN VALLEY RADIO STATION	8,904
SWAN VALLEY SUBSTATION	129,757
SYSTEM WIDE	819,368
TACOMA RADIO STATION	15,376
TACOMA SUBSTATION	83,008
TAFT SUBSTATION	982
TAHKENITCH SUBSTATION	139,952
TARGHEE SUBSTATION	12,526
TEAKEAN BUTTE RADIO STATION	66,706

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TETON SUBSTATION	364,191
THE DALLES SUBSTATION	102,870
TILLAMOOK SUBSTATION	25,845
TINCUP SUBSTATION	147,498
TOLEDO SUBSTATION	299,940
TRENTWOOD SUBSTATION	116,476
TROUTDALE SUBSTATION(BPA)	84,977
TUCANNON RIVER SUBSTATION	209,349
UNITY SUBSTATION(BPA)	8,457
VALHALLA SUBSTATION	728,708
VANSYCLE RIDGE WIND GENERATION FACILITY	68,676
VANTAGE SUBSTATION	544,206
WALLA WALLA SUBSTATION(BPA)	345,896
WARNER SUBSTATION	22,126
WAUTOMA SUBSTATION	292,418
WENDSON SUBSTATION	303,201
WEST PORTLAND RADIO STATION	148,357
WEYERHAEUSER INDUSTRIAL WAY WEYCO NO 1 SUBSTATION (COWLITZ)	8,630
WHITE BLUFFS SUBSTATION	180,060
WHITE CREEK SUBSTATION (KPUD)	43,376
WILLIS SUBSTATION (KPUD)	22,606
WINE COUNTRY SUBSTATION	162,189
Total Ancillary Service	<u>163,816,783</u>

*** Defined by FERC Account 353(1) Control, 391(2) Hardware, 391(3) Software, and 397(104,108) SCADA Communication:

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General Plant Facilities

General Plant	Investment (\$)
ABERDEEN SUBSTATION	51,922
ADDY SUBSTATION	42,118
ADEL RADIO STATION	1,153,729
ALBANY SUBSTATION	351,924
ALBANY-EUGENE NO 1	417,035
ALBENI FALLS RADIO STATION (USCE)	167,336
ALBENI FALLS SUBSTATION	3,992
ALBION BUTTE RADIO STATION	204,370
ALCOA SUBSTATION	92,061
ALDER METERING POINT	9,317
ALFALFA SUBSTATION	109,518
ALLSTON SUBSTATION	1,401,172
ALVEY MAINTENANCE HEADQUARTERS	844,250
ALVEY SUBSTATION	4,711,842
ANACONDA SUBSTATION	198,847
APPLEGATE BUTTE RADIO STATION	1,813,502
ARTONDALE SUBSTATION	38,647
ASHE MAINTENANCE HEADQUARTERS	2,409,638
ASHE SUBSTATION	3,420,068
ASHTON HILL RADIO STATION	155,791
AUGSPURGER MOUNTAIN RADIO STATION	320,586
BADGER CANYON SUBSTATION	671,301
BAKEOVEN COMPENSATION STATION	20,113
BALD MOUNTAIN RADIO STATION	1,373,383
BALD PEAK RADIO STATION	85,096
BANDON SUBSTATION	684,901
BEAVER SUBSTATION (PGE)	140,648
BELL MAINTENANCE HEADQUARTERS	6,887,379
BELL SUBSTATION	3,999,290
BELLINGHAM SUBSTATION(BPA)	961,749
BELLINGHAM-CUSTER FIBER SYSTEM	3,760,858
BELL-NOXON FIBER SYSTEM	3,981,955
BENNETT MOUNTAIN RADIO STATION	89,534
BENTON SUBSTATION	48,848
BENTON-FRANKLIN NO 1	15,180
BETTAS ROAD SUBSTATION	482,404
BEVERLY RADIO STATION	75,088
BIDDLE BUTTE RADIO STATION	32,158
BIG EDDY 500 KV SWITCHYARD	302,747
BIG EDDY SUBSTATION	3,295,427
BIG EDDY-TROUTDALE NO 1	63,155
BIRCH CREEK RADIO STATION	29,191
BLACK MOUNTAIN RADIO STATION	142,573
BLACKTAIL PEAK RADIO STATION	580,461
BLUE RIDGE RADIO STATION	441,312
BOARDMAN SUBSTATION	418,466
BOARDMAN-TOWER ROAD NO 1	(5,942)
BOISTFORT PEAK RADIO STATION(WEYERHOUSER)	55,063
BONNERS FERRY SUBSTATION	53,864
BONNEVILLE POWERHOUSE #1	3,513
BOUNDARY SUBSTATION	937,566
BPA HEADQUARTERS BUILDING	94,536
BPA SYSTEM	36,439,456
BPA SYSTEM-LINES	209,411
BPA SYSTEM-METERS	14,275
BPA SYSTEM-MICROWAVE &RADIO STATIONS	474,293
BPA SYSTEM-NON ELECTRIC PLANT& MISC	81,991,663
BRADFORD ISLAND RADIO STATION	58,502
BRASADA SUBSTATION (CENTRAL ELECTRIC COOPERATIVE)	456,814
BRIDGE SUBSTATION	17,011
BROADVIEW SUBSTATION	36,126
BROOKDALE SUBSTATION(ELMHURSTMUTUAL PWR & LIGHT)	44,058
BUCK BUTTE RADIO STATION	1,598,343
BUCKLEY SUBSTATION	1,915,600
BURLEY MAINTENANCE HEADQUARTERS	57,779
BURNS RADIO STATION	132,271
CABBAGE HILL RADIO STATION	84,401
CALPINE SUBSTATION	381,455
CAPE BLANCO RADIO STATION (BPA)	902,315
CAPITOL PEAK RADIO STATION(BPA)	583,519
CAPTAIN JACK SUBSTATION	1,628,771
CARDWELL SUBSTATION	213,502
CARLTON SUBSTATION	396,407
CARLTON-SHERWOOD NO 1	556
CASCADE STEEL SUBSTATION	28,301
CELILO DC CONVERTER STATION	5,419,519
CELILO MAINTENANCE HEADQUARTERS	21,287
CENTRALIA SUBSTATION	31,477
CHEHALIS MAINTENANCE HEADQUARTERS	79,987
CHEHALIS RADIO STATION	128,615
CHEHALIS SUBSTATION	1,509,496
CHEMAWA MAINTENANCE HEADQUARTERS	93,505

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CHEMAWA SUBSTATION	7,056,934
CHENOWETH SUBSTATION	252,909
CHIEF JOSEPH POWERHOUSE	508,107
CHIEF JOSEPH SUBSTATION	2,288,689
CLARK SUB	4,827
CLATSOP SUBSTATION	10,265
CLINTON SUBSTATION (SOLD)	1,193
COBURG RADIO STATION	225,732
COBURG SUBSTATION	140,618
COLSTRIP SES	41,676
COLSTRIP SUBSTATION	247,062
COLUMBIA FALLS SUBSTATION -- 115 YARD	406,902
COLUMBIA FALLS SUBSTATION - 230 KV YARD	1,191,780
COLUMBIA FALLS-KALISPELL NO 1	31,810
COLUMBIA GENERATING STATION SUBSTATION (ENERGY NORTHWEST)	1,864,102
COLUMBIA GENERATING STATION-ASHE FIBER SYSTEM	126,744
COLUMBIA SUBSTATION	1,372,878
COLVILLE SUBSTATION	185,792
CONDON WIND SUBSTATION(SEAWEST)	17,366
CONKELLEY SUBSTATION	1,756,049
COSMOPOLIS SUBSTATION	4,164
COVINGTON MAINTENANCE HEADQUARTERS	750,168
COVINGTON SUBSTATION	3,650,407
COVINGTON-BELL FIBER SYSTEM	18,377,621
COVINGTON-BETTAS ROAD NO 1	402,607
COVINGTON-MAPLE VALLEY FIBER SYSTEM	2,941,491
COVINGTON-MUNRO FIBER SYSTEM(INACTIVE SEE NOTES)	1,383,291
COWLITZ SUBSTATION(BPA)	21,809
COYOTE HILLS RADIO STATION	1,373,033
COYOTE SPRINGS SUBSTATION	449,012
CRESTON SUBSTATION(BPA)	337,151
CULDESAC RADIO STATION	40,284
CUSICK SUBSTATION	86,245
CUSTER MAINTENANCE HEADQUARTERS	724,085
CUSTER SUBSTATION	2,331,219
CUSTER-INGLEDOW NO 1	190,843
DAVENPORT RADIO STATION	85,991
DE MOSS SUBSTATION(BPA)	343,420
DEAD INDIAN MOUNTAIN RADIO STATION	51,774
DECATUR SUBSTATION	134,517
DEL RIO RADIO STATION	220,873
DEVILS MOUNTAIN RADIO STATION	548,505
DITTMER BPA SYSTEM CONTROL CENTER	29,850,355
DIXONVILLE SUBSTATION	164,947
DOMINION PEAK BALD MOUNTAIN(INACTIVE. SEE NOTES)	35,587
DOUGLAS SWITCHYARD	68,042
DRAIN SUBSTATION	21,211
DRISCOLL SUBSTATION	58,340
DRISCOLL-NASELLE NO 1	274,886
DRUMMOND SUBSTATION	193,289
DWORSHAK POWERHOUSE	94,065
DWORSHAK SUBSTATION	529,413
EAST OMAK SUBSTATION	42,689
EASTERN CONTROL CENTER	1,161,009
EASTON RADIO STATION	310,876
EASTSIDE SYSTEM CONTROL CENTER(PSE)	14,423
ECHO LAKE SUBSTATION	1,420,119
ECHO LAKE-MONROE-SNOHOMISH FIBER SYSTEM	4,908,397
ELLENSBURG SUBSTATION	377,775
ELLENSBURG-MOXEE NO 1	254,038
ELLIS MOUNTAIN RADIO STATION	32,352
ELLIS RADIO STATION	556
EUGENE C. STARR COMPLEX	3,497,144
EUGENE SUBSTATION	342,268
EUGENE-ALDERWOOD NO 1	417,035
FAIRMOUNT SUBSTATION	16,010
FAIRVIEW SUBSTATION(BPA)	799,002
FIDALGO SUBSTATION	434,263
FIDALGO-LOPEZ ISLAND NO 5	95,100
FLATHEAD SUBSTATION(BPA & FLATHEAD ELEC)	1,182,863
FOLSOM CONTROL CENTER (CAL ISO)	3,416
FOREST GROVE SUBSTATION	106,629
FOREST GROVE-MCMINNVILLE NO 1	6,668
FORT ROCK COMPENSATION STATION	371,978
FORT ROCK SUBSTATION (MIDSTATE ELECTRIC COOP)	3,351
FOSTER CREEK RADIO STATION	48,736
FOSTER SUBSTATION	16,933
FRANKLIN MAINTENANCE HEADQUARTERS	233,605
FRANKLIN SUBSTATION	1,444,893

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BP14 Rate Case Final Proposal Segmentation Details

FRANKLIN-MUNRO FIBER SYSTEM	16,440,087
FRANZ HOLMES SUBSTATION	2,341
FREDERICKSON GENERATING PLANT(FREDERICKSON POWER LP)	119,537
FRENCHMAN SPRINGS SUBSTATION	766
GARDINER RIDGE RADIO STATION(BPA)	23,654
GARDINER RIDGE RADIO STATION(CENTRAL LINCOLN PUD)	10,244
GARRISON MAINTENANCE HEADQUARTERS	158,654
GARRISON SUBSTATION	4,785,254
GIG HARBOR SUBSTATION	46,027
GOLDENDALE SUBSTATION(BPA)	11,710
GOODWIN PEAK RADIO STATION	390,889
GOSHEN SUBSTATION(UTAH POWER & LIGHT)	38,803
GRAND COULEE 115 KV SWITCHYARD	634,783
GRAND COULEE 115KV-GRAND COULEE RS FIBER SEG	249,005
GRAND COULEE 230 KV SWITCHYARD	684,577
GRAND COULEE 500 KV SWITCHYARD	1,217,762
GRAND COULEE MAINTENANCE BUILDING	629,567
GRAND COULEE PASSIVE REPEATERSITE	556
GRAND COULEE RADIO STATION	386,369
GRAND COULEE SUBSTATION	113,077
GRAND COULEE THIRD POWERHOUSE	152,907
GRAND COULEE-BELL NO 5	22,276
GRANDVIEW SUBSTATION	38,617
GRANITE MOUNTAIN RADIO STATION	185,927
GRASSY MOUNTAIN RADIO STATION	556
GRAZZINI SUBSTATION	69,978
GREEN MOUNTAIN PASSIVE REPEATER SITE	18,681
GREENBERRY SUBSTATION	645
GRIZZLY MOUNTAIN RADIO STATION	90,226
GRIZZLY SUBSTATION	911,895
GROUSE PEAK RADIO STATION	375,503
HAAKENSON SUBSTATION	24,891
HALL RIDGE RADIO STATION	392,006
HAMPTON BUTTE RADIO STATION	343,430
HANFORD SUBSTATION	753,297
HANFORD-WAUTOMA NO 1	1,770
HAPPY CAMP RADIO STATION(PG&E)	485,754
HAPPY CAMP RADIO STATION(TANC)	52,708
HAPPY VALLEY SUBSTATION	1,657
HARNEY SUBSTATION(BPA)	270,352
HARVALUM SUBSTATION	487,931
HARVEY SUBSTATION	142,362
HAT ROCK SUBSTATION	87,437
HATWAI SUBSTATION	1,330,644
HAUSER SUBSTATION(BPA)	9,889
HAUSER-NORTH BEND MAINTENANCE HQ FIBER SYSTEM	52,648
HAYDEN SUBSTATION	4,128
HAYSTACK BUTTE RADIO STATION	86,253
HEYBURN SUBSTATION	26,048
HILLTOP SUBSTATION	27,330
HOLCOMB RADIO STATION	11,374
HOLCOMB SUBSTATION	16,087
HOOD RIVER SUBSTATION	143,515
HOOD RIVER-THE DALLES NO 1	95,770
HORN BUTTE TAP TO TOWER ROAD-ALKALI NO 1	7,512
HORSE HEAVEN SUBSTATION	11,423
HOT SPRINGS SUBSTATION	2,578,325
HOT SPRINGS-GARRISON FIBER SYSTEM	9,027,301
HUNGRY HORSE POWERHOUSE	543,650
HUNGRY HORSE RADIO STATION	653,256
HUNGRY HORSE SWITCHYARD	41,716
ICE HARBOR POWERHOUSE	251,067
IDAHO FALLS DISTRICT OFFICE AND MAINTENANCE HEADQUARTERS	4,447,679
IDAHO FALLS STORAGE YARD	380,162
INTALCO SUBSTATION	928,828
IONA BUTTE RADIO STATION	747
JOHN CURTIS SUBSTATION	68,395
JOHN DAY POWERHOUSE	270,063
JOHN DAY SUBSTATION	2,356,399
JOHN DAY SUBSTATION - 230 YARD	971,128
JONES CANYON SUBSTATION	2,483,423
KAHLOTUS RADIO STATION	116,277
KALISPELL MAINTENANCE HEADQUARTERS	7,012,388
KALISPELL SUBSTATION(BPA)	1,925,385

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KEELER MAINTENANCE HEADQUARTERS	521,342
KEELER SUBSTATION	1,422,150
KEELER-ALVEY FIBER SYSTEM	8,601,493
KEELER-COVINGTON FIBER SYSTEM	17,816,936
KEELER-FOREST GROVE NO 1	18,163
KENNEDY SUBSTATION	3,017
KENNEWICK RADIO STATION	1,305,105
KENNEWICK SUBSTATION(BENTON CO PUD)	7,152
KENYON MOUNTAIN RADIO STATION	309,028
KING LAKE RADIO STATION	104,217
KITSAP SUBSTATION	761,990
KLONDIKE SCHOOLHOUSE SUBSTATION (IBERDOLA)	130,842
LA GRANDE SUBSTATION	164,303
LA PINE SUBSTATION	948,178
LAKE BAY SUBSTATION	119,816
LAKE GROVE SUBSTATION	56,584
LAKESIDE RADIO STATION	34,188
LANCASTER SUBSTATION(BPA)	407,219
LANE SUBSTATION	842,434
LEBANON SUBSTATION	6,013
LENEVE RADIO STATION	94,478
LEWISTON MAINTENANCE HEADQUARTERS	24,455
LEXINGTON SUBSTATION	351,036
LIBBY POWERHOUSE	529,570
LIBBY SUBSTATION(BPA)	1,769,270
LIBBY SUBSTATION(BPA/FLATHEADELEC)	434,298
LINES CREEK RADIO STATION	757,679
LITTLE GOOSE PH-LITTLE GOOSE NO 1	(1,777)
LITTLE GOOSE POWERHOUSE	595,840
LITTLE GOOSE SUBSTATION	3,259,465
LODHOLM SUBSTATION	132,402
LONGVIEW ANNEX I	2,885
LONGVIEW MAINTENANCE HEADQUARTERS	267,444
LONGVIEW SUBSTATION	2,144,248
LOOKOUT MOUNTAIN RADIO STATION	37,843
LOOKOUT POINT SUBSTATION	17,902
LOPEZ ISLAND SUBSTATION(BPA)	496,029
LOST RIVER SUBSTATION	173,126
LOWELL BUTTE RADIO STATION	1,855,300
LOWER GRANITE POWERHOUSE	329,857
LOWER GRANITE SUBSTATION	4,246,564
LOWER MONUMENTAL POWERHOUSE	258,795
LOWER MONUMENTAL SUBSTATION	1,536,280
LOWER MONUMENTAL-HANFORD NO 1	53,475
LOWER MONUMENTAL-MCNARY NO 1	7,729
LYN PUMPS PUMPING PLANT	4,267
LYNCH CREEK SUBSTATION	121,887
MACKS INN SUBSTATION	13,198
MALAGA RADIO STATION	253,068
MALIN MAINTENANCE HEADQUARTERS	5,338,656
MALIN PASSIVE REPEATER S SITE	13,184
MALIN SUBSTATION	2,903,209
MALONEY RIDGE RADIO STATION	1,571
MAPLE VALLEY SUBSTATION	2,297,389
MAPLE VALLEY-SNOHOMISH FIBER SYSTEM	732,999
MAPLETON SUBSTATION	60,489
MARION SUBSTATION	2,030,956
MARION-SANTIAM FIBER SYSTEM	220,328
MARTIN CREEK SUBSTATION	57,943
MARYS PEAK RADIO STATION	225,335
MAUPIN SUBSTATION	229,841
MAYFIELD POWERHOUSE	12,509
MAYFIELD SWITCHYARD	57,344
MCCULLOUGH SUBSTATION	59,703
MCLOUGHLIN SUBSTATION	881,150
MCMINNVILLE SUBSTATION	235,988
MCNARY MAINTENANCE HEADQUARTERS	64,656
MCNARY POWERHOUSE	465,808
MCNARY SUBSTATION	4,138,481
MCNARY-COYOTE SPRINGS NO 1	1,519,037
MCNARY-HORSE HEAVEN NO 1	68,203
MCNARY-JOHN DAY NO 2	5,361,930
MEAD SUBSTATION	4,712
MEGLER RADIO STATION	556

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BP14 Rate Case Final Proposal Segmentation Details

MERIDIAN SUBSTATION(PACIFICORP)	215,029
MERRITT RADIO STATION	119,019
METALINE RADIO STATION	78,233
MICA PEAK RADIO STATION	765,517
MIDWAY SUBSTATION(BPA)	2,112,049
MIDWAY-MOXEE NO 1	33,830
MILES CITY SUBSTATION	78,146
MILLER PEAK RADIO STATION	825,116
MILLER SUBSTATION(LAKEVIEW LIGHT & PWR)	65,777
MINIDOKA POWERHOUSE	67,168
MINIDOKA RADIO STATION	104,319
MINTER SUBSTATION (PENINSULA)	100,179
MOBILE COMMUNICATIONS	409,133
MONROE SUBSTATION	1,128,212
MOXEE SUBSTATION	94,867
MT. EMILY RADIO STATION	65,833
MT. HEBO RADIO STATION	9,063
MT. SPOKANE RADIO STATION(AVISTA)	43,896
MT. SPOKANE RADIO STATION(BPA)	201,662
MUNRO BPA SYSTEM CONTROL CENTER	13,107,414
MURRAY SUBSTATION	31,793
NAPAVINE SUBSTATION	361,081
NARROWS SUBSTATION	75,170
NASELLE RIDGE RADIO STATION	13,353
NASELLE SUBSTATION	10,219
NASELLE-TARLETT NO 1	37,122
NEWPORT SUBSTATION(INLAND POWER)	431
NINE CANYON SUBSTATION (BENTON PUD)	63,776
NORTH BEND MAINTENANCE HEADQUARTERS	2,487,737
NORTH BEND RADIO STATION	596,263
NORTH BONNEVILLE SUBSTATION	386,245
NORTH BONNEVILLE-MIDWAY NO 1	3,745
NORTH BONNEVILLE-TROUTDALE NO2	281,830
NOTI RADIO STATION	271,116
NOXON CONSTRUCTION SUBSTATION	344,199
NOXON RADIO STATION	1,687,314
NOXON-KALISPELL FIBER SYSTEM	11,514,282
NOXON-TAFT FIBER SYSTEM	5,718,682
ODELL BUTTE RADIO STATION	970,199
OHOP SUBSTATION	126,215
OLNEY METERING POINT	2,706
OLYMPIA MAINTENANCE HEADQUARTERS	6,562,207
OLYMPIA SUBSTATION	1,597,077
OLYMPIA-ABERDEEN FIBER SYSTEM	989,884
OLYMPIA-GRAND COULEE NO 1	898,339
OLYMPIA-KITSAP NO 3 (SEE NOTES)	66,850
OLYMPIA-PORT ANGELES FIBER SYSTEM	6,850,457
OLYMPIA-SOUTH TACOMA NO 1	1,318,835
OREGON CITY SUBSTATION	118,458
OSTRANDER PASSIVE REPEATER SITE	66,182
OSTRANDER SUBSTATION	6,415,861
PACIFIC GAS AND ELECTRIC OPERATIONS CENTER	4,109
PALISADES POWERHOUSE	14,556
PASCO MAINTENANCE HEADQUARTERS	196,041
PATRICKS KNOB RADIO STATION	701,903
PAUL SUBSTATION	1,479,161
PBL ROSS EMERGENCY SCHEDULINGCENTER (ESC)	57,571
PEARL SUBSTATION	1,246,402
PEARL-TROUTDALE FIBER SYSTEM	4,093,153
PENDLETON SUBSTATION	17,757
PILOT BUTTE-LA PINE NO 1	124,765
PINE MOUNTAIN RADIO STATION	192,493
POMEROY RADIO STATION	542,569
POMEROY SUBSTATION(BPA)	133,662
PONDEROSA SUBSTATION(BPA)	231,433
PORT ANGELES SUBSTATION(BPA)	139,450
PORTLAND INTERNATIONAL AIRPORT HANGAR	1,160,192
POTHOLES SUBSTATION	33,878
PROSPECT HILL RADIO STATION	513,780
PURDY SUBSTATION	46,473
RAINIER RADIO STATION	189,502
RAINIER SUBSTATION	3,384
RATTLESNAKE SUBSTATION(MPC)	554,550
RAVER SUBSTATION	2,796,798

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BP14 Rate Case Final Proposal Segmentation Details

RAVER-ECHO LAKE FIBER SYSTEM	7,294,724
RAYMOND HILL RADIO STATION	18,859
RAYMOND SUBSTATION	21,198
RED MOUNTAIN SUB (BENTON REA)- NEVER BUILT-OBS	391,394
RED MOUNTAIN SUBSTATION	462,774
REDMOND BPA HANGAR SITE	1,348,223
REDMOND MAINTENANCE HEADQUARTERS	3,092,670
REDMOND SUBSTATION(BPA)	1,409,148
REEDSPORT SUBSTATION (BPA)	177,550
REEDSPORT-FAIRVIEW NO 1	314,896
REEDSPORT-TAHKENITCH FIBER SYSTEM	193,800
RESTON SUBSTATION	153,458
RICHLAND SUBSTATION	98,308
ROCK CREEK SUBSTATION	602,715
ROCK CREEK-JOHN DAY NO 1	1,994
ROCKDALE RADIO STATION	31,091
ROCKY RADIO STATION [RET]	12,681
ROCKY REACH SUBSTATION	556
ROCKY REACH SWITCHYARD	85,702
ROCKY RIDGE RADIO STATION	941,683
ROGUE SUBSTATION	725,548
ROOSEVELT RADIO STATION	240,239
ROSS AMPERE BUILDING	1,612,752
ROSS COMPLEX	61,439,181
ROSS CONSTRUCTION AND SERVICES BUILDING	1,947,939
ROSS EHV LABORATORY	603,409
ROSS MAINTENANCE HEADQUARTERS	205,983
ROSS PLANT SERVICES BUILDING	105,387
ROSS RADIO STATION	45,113
ROSS SUBSTATION	521,532
ROSS TOOLS AND EQUIPMENT BUILDING	3,459,851
ROSS WAREHOUSE	5,737,739
ROSS-FRANKLIN FIBER SYSTEM	20,824,306
ROSS-MALIN FIBER SYSTEM	20,193,947
ROUND VALLEY SUBSTATION	133,669
ROUNDUP SUBSTATION	86,577
SACAJAWEA SUBSTATION	70,399
SACHEEN SUBSTATION	26,811
SALEM PASSIVE REPEATER SITE	10,266
SALEM SUBSTATION(558,458
SAND DUNES SUBSTATION	58,891
SAND SPRING COMPENSATION STATION	93,311
SANDPOINT SUBSTATION(BPA)	22,550
SANTIAM SUBSTATION	1,640,821
SANTIAM-BETHEL NO 1	206,955
SATSOP SUBSTATION(BPA)	677,024
SAWTELL RADIO STATION	210,883
SCHULTZ MAINTENANCE HEADQUARTERS	2,704,238
SCHULTZ SUBSTATION	1,643,787
SCHULTZ-ECHO LAKE NO 1	1,237,435
SCHULTZ-WAUTOMA NO 1	18,029,963
SCOTT MOUNTAIN RADIO STATION	288,852
SEATTLE RADIO STATION	3,908
SHANIKO RADIO STATION	44,966
SHANO SUBSTATION	13,189
SHELTON SUBSTATION	61,900
SHELTON-KITSAP NO 2	399,843
SHELTON-SOUTH BREMERTON NO 1	399,843
SICKLER MAINTENANCE HEADQUARTERS	1,069,891
SICKLER SUBSTATION	2,023,076
SICKLER-SCHULTZ NO 1	311,816
SIFTON SUBSTATION	1,309,745
SILVER CREEK SUBSTATION	433,737
SILVERADO SUBSTATION (CLALLAM CO. PUD)	875
SKYROCKET RADIO STATION	853,563
SLATT SUBSTATION	2,779,983
SNOHOMISH CO. PUD DISPATCH CENTER	8,094
SNOHOMISH MAINTENANCE HEADQUARTERS	1,648,879
SNOHOMISH SUBSTATION	3,237,030
SNO-KING SUBSTATION	1,193,261
SNO-KING-MAPLE VALLEY NO. 2	45,639
SNO-KING-SNOHOMISH FIBER SYSTEM (DO NOT USE, SEE NOTES)	2,949,281
SOUTH MOUNTAIN RADIO STATION	297,568
SOUTH TACOMA SUBSTATION	319,695

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SPAR CANYON SUBSTATION	136,951
SPOKANE HANGAR	1,705,354
SPRING CREEK SUBSTATION	161,800
SPRING CREEK-WINE COUNTRY NO 1	50,782
SQUAK MOUNTAIN RADIO STATION	63,709
ST. JOHNS SUBSTATION	9,571
STAMPEDE PASS RADIO STATION	145,800
STEILACOOM SUBSTATION	97,941
SUMMER LAKE HOUSING	143,243
SUMMER LAKE SUBSTATION	1,016,692
SUN HARBOR SUBSTATION	13,914
SUNNYSIDE RADIO STATION	756,612
SURPRISE LAKE SUBSTATION	80,458
SWAN LAKE POINT RADIO STATION	64,785
SWAN VALLEY RADIO STATION	111,605
SWAN VALLEY SUBSTATION	262,636
SWAN VALLEY-TETON NO 1	94,591
SWAN VALLEY-TETON NO 2	94,531
SYCAN COMPENSATION STATION	295,917
SYSTEM WIDE	22,836,676
TACOMA PASSIVE REPEATER SITE	7,992
TACOMA RADIO STATION	1,896,388
TACOMA SUBSTATION	1,328,144
TAFT SUBSTATION	1,987,212
TAHKENITCH SUBSTATION	207,583
TANNER TAP TO SNOQUALMIE-LAKE TRADITION NO 1	2,223,299
TARGHEE SUBSTATION	138,873
TARKIO SUBSTATION (SOLD)	2,772
TEAKEAN BUTTE RADIO STATION	191,019
TEANAWAY RADIO STATION	231,214
TETON SUBSTATION	86,163
THE DALLES FISHWAY HYDRO PLANT	16,496
THE DALLES MAINTENANCE HEADQUARTERS	4,601,552
THE DALLES OPERATING DISTRICTHEADQUARTERS	26,595
THE DALLES POWERHOUSE	293,724
THE DALLES SUBSTATION	251,433
THOMPSON FALLS RADIO STATION	466,622
TILLAMOOK SUBSTATION	392,068
TOLEDO SUBSTATION	161,010
TRENTWOOD SUBSTATION	87,179
TROUTDALE SUBSTATION(BPA)	2,935,592
TROUTDALE SUBSTATION(PACIFICORP)	151,373
TROY SUBSTATION	3,763
TUCANNON RIVER SUBSTATION	1,042,719
TUNK MOUNTAIN RADIO STATION	211,786
TWO PARK PLACE	25,339
TYEE SUBSTATION	88,101
UNITY SUBSTATION(BPA)	42,793
USK SUBSTATION(BPA)	144,441
VALHALLA SUBSTATION	426,991
VANTAGE SUBSTATION	906,320
VAUGHN SUBSTATION	113,732
WALKER MOUNTAIN RADIO STATION	375,144
WALLA WALLA SUBSTATION(BPA)	764,283
WALLA WALLA SUBSTATION(PACIFICORP)	16,384
WALLA WALLA-WALLA WALLA (PACW) NO 1	163,462
WARDEN POLE METERING POINT	6,664
WARNER SUBSTATION	346,484
WASCO RADIO STATION	688,009
WATERVILLE RADIO STATION	105,061
WAUNA PAPER MILL	9,063
WAUTOMA SUBSTATION	2,839,903
WAUTOMA-COLUMBIA FIBER SYSTEM	5,084,288
WAUTOMA-OSTRANDER NO 1	19,979
WEISER SUBSTATION	7,809
WENDSON SUBSTATION	565,011
WENDSON-TAHKENITCH NO 2	514,470
WEST PORTLAND RADIO STATION	69,266
WESTSIDE SUBSTATION(BPA)	21,113
WHISKEY RIDGE RADIO STATION	18,065
WHITE BLUFFS SUBSTATION	815,324
WILSON RIVER SUBSTATION	5,855
WINCHESTER SUBSTATION	11,849
WINDY DEVIL RADIO STATION	82,197

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WINE COUNTRY SUBSTATION	732,852
WOLF MOUNTAIN RADIO STATION	1,472,604
WPPSS NO. 2 POWERHOUSE	89,096
Total General Plant	<u><u>759,709,225</u></u>

APPENDIX B

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Appendix B - Future Plant in Service												
2	Project	Total			Substation			Line			General Plant		
3		FY 13	FY 14	FY 15	FY 13	FY 14	FY 15	FY 13	FY 14	FY 15	FY 13	FY 14	FY 15
4	West of McNary Reinforcements - Group I (WOMR I)	1,713	-	-	69	-	-	1,627	-	-	17	-	-
5	West of Joh Day Path RAS Addition	-	381	-	-	-	-	-	-	-	-	381	-
6	Olympic Peninsula Reinforcement												
7	North of Fairmont Back-Tripping Safety Net Scheme - PAR TFY110104	-	725	-	-	725	-	-	-	-	-	-	-
8	West of Cascades North Reinforcement												
9	Monroe 500 kV Shunt Capacitor Addition PAR TFY120018	-	9,197	-	-	9,197	-	-	-	-	-	-	-
10	Portland/Vancouver Reinforcement												
11	Ostrander Line Swap - PAR TFY100111	2	-	-	-	-	-	2	-	-	-	-	-
12	Forest Grove Loop Into Keeler - TFY100132	159	-	-	143	-	-	16	-	-	-	-	-
13	Pearl Sub 500KV Bay No 6 Addition - PAR TFY100141	1,457	-	-	1,457	-	-	-	-	-	-	-	-
14	Ostrander 500 kV Breaker Addition- PAR TFY130014	-	1,321	-	-	1,321	-	-	-	-	-	-	-
15	Keeler 230 kV Bus Sectionalizing Breaker Addition - PAR TFY110073	-	2,411	-	-	2,411	-	-	-	-	-	-	-
16	Big Eddy Knight - West of McNary Reinforcements - Group II (WOMR II)	-	-	58,153	-	-	5,815	-	-	46,522	-	-	5,815
17	Central Oregon Reinforcement												
18	L0331,L0332,L0335 Ponderosa New 230/115 Substation	-	19,238	-	-	19,238	-	-	-	-	-	-	-
19	Ponderosa 500/230 kV Transformer Addition	-	4,546	-	-	4,546	-	-	-	-	-	-	-
20	LAPINE 115KV SHUNT CAP ADDITION - TFY090213	-	862	-	-	862	-	-	-	-	-	-	-
21	LAPINE 230 KV SHUNT REACTOR ADDITION	-	1,796	-	-	1,796	-	-	-	-	-	-	-
22	Salem/Albany/Euguen Area Reinforcement												
23	Alvey 500 kV Shunt Reactor Addition - PAR TFY100145	-	6,768	-	-	-	-	6,768	-	-	-	-	-
24	Central Ferry Lower Monumental (Little Goose Area Reinforcement)	-	-	72,417	-	-	7,242	-	-	57,933	-	-	7,242
25	Ashe Sub New Bay - PAR TFY110201	3,309	-	-	3,309	-	-	-	-	-	-	-	-
26	Tri-Cities Area Reinforcement												
27	White Bluffs Sub Bus SCTLZG BR PAR TFY090164	146	-	-	146	-	-	-	-	-	-	-	-
28	White Bluffs 115 kV shunt Capacitor Additions - PAR TFY120024	-	1,381	-	-	1,381	-	-	-	-	-	-	-
29	Franklin 115 kV Shunt Capacitor Addition - PAR TFY110037	-	2,848	-	-	2,848	-	-	-	-	-	-	-
30	McNary 230 kV Shunt Capacitors - PAR TFY120109	-	-	5,663	-	-	5,663	-	-	-	-	-	-
31	Red Mountain - Grandview L-RAS TFY140407 PAR TS0140006	-	-	200	-	-	-	-	-	-	-	-	200
32	Midway-Grandview 115kV Line Rebuild PAR TS0140069	-	-	1,881	-	-	-	-	-	1,881	-	-	-
33	Tucannon 115 kV Shunt Capacitor Addition - PAR TFY120069	-	2,038	-	-	2,038	-	-	-	-	-	-	-
34	L0329 Richland's new 115kV Dallas Road Substation - TFY140418	-	-	1,500	-	-	1,500	-	-	-	-	-	-
35	Paul Substation Shunt Reactor Addition TFY140625	-	-	7,446	-	-	7,446	-	-	-	-	-	-
36	NERC Criteria Compliance	-	-	-	-	-	-	-	-	-	-	-	-
37	Longview Area Reinforcement												
38	Longview Sub 115kV Bus Sect BK - PAR TFY110066	(11)	-	-	(11)	-	-	-	-	-	-	-	-
39	Longview-Lexington 230 kV Line Re-termination - PAR TFY130009	-	1,121	699	-	1,009	629	-	112	70	-	-	-
40	CCPUD's Washington Way Sub - PAR TFY110165	1	-	-	1	-	-	-	-	-	-	-	-
41	Kalispell/ Flathead Valley Reinforcement												
42	Columbia Falls 230 kV Bus Sectionalizing Breaker Addition - PAR TFY110048	-	1,679	-	-	1,679	-	-	-	-	-	-	-
43	Kalispell 115 kV Additional Capacitor Banks - PAF TFY130419	-	3,466	-	-	3,466	-	-	-	-	-	-	-
44	Southern Idaho/ Lower Valley Reinforcement	181	-	-	45	-	-	136	-	-	-	-	-
45	Misc Substation Work	1,519	2,079	6,019	1,519	2,079	6,019	-	-	-	-	-	-
46	SALE OF FACILITIES	465	121	1	465	121	1	-	-	-	-	-	-
47	ROGUE SVC	-	1,760	-	-	1,760	-	-	-	-	-	-	-
48	Security Enhancements	8,802	17,153	4,100	8,802	17,153	4,100	-	-	-	-	-	-

APPENDIX B

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Appendix B - Future Plant in Service												
2	Project	Total			Substation			Line			General Plant		
3		FY 13	FY 14	FY 15	FY 13	FY 14	FY 15	FY 13	FY 14	FY 15	FY 13	FY 14	FY 15
49	IT Projects	2,708	2,775	2,843	-	-	-	-	-	-	2,708	2,775	2,843
50	Misc Upgrades * Additions	5,268	7,149	5,420	5,268	7,149	5,420	-	-	-	-	-	-
51	Celilo Upgrades - Various	871	1,234	-	749	1,062	-	78	111	-	44	62	-
52	Control Centers	100	602	4,458	-	-	-	-	-	-	100	602	4,458
53	CC- Infrastructure Components	1,547	6,668	989	-	-	-	-	-	-	1,547	6,668	989
54	CC - System & Application	752	434	755	-	-	-	-	-	-	752	434	755
55	System Telecommunications (Fiber Optics)	841	3,787	26,869	-	-	-	-	-	-	841	3,787	26,869
56	Line Capacity & Line Switch Upgrades	646	462	9,004	646	462	9,004	-	-	-	-	-	-
57	Big Eddy Troutdale 230 kV - PAR TFY10019	1,809	-	-	-	-	-	1,809	-	-	-	-	-
58	Access Roads - Land Acquisition & Rebuilds	188	25	1,394	-	-	-	-	-	-	188	25	1,394
59	Land Rights - Tribal Renewals	803	-	-	-	-	-	-	-	-	803	-	-
60	Land Rights - Veg Mitigation	-	127	2,959	-	-	-	-	-	-	-	127	2,959
61	Land Rights - Access Roads	3,876	75	289	-	-	-	-	-	-	3,876	75	289
62	Misc Sub Additions	2,688	4,599	3,843	2,688	4,599	3,843	-	-	-	-	-	-
63	Transformer Spare Replacement - PAR TFY090242	-	11,382	-	-	11,382	-	-	-	-	-	-	-
64	Columbia Substation 230kV Bus Tie Breaker and Bus Sectionalizing Breaker	-	-	3,000	-	-	3,000	-	-	-	-	-	-
65	Substation Engine Generators Upgrade FY120032 and TYF130647	-	2,099	-	-	2,099	-	-	-	-	-	-	-
66	North Bonneville 230kV sub re-terminate N Bonn - Trd #2 230kV - TFY140414	-	-	1,957	-	-	1,957	-	-	-	-	-	-
67	Silver Creek Bus Sect and Transformer PCB Addition TFY130421 & TFY130426	-	-	2,816	-	-	2,816	-	-	-	-	-	-
68	Bell 230 kV Substation Bus Section 1 Split	-	-	1,732	-	-	1,732	-	-	-	-	-	-
69	RAS Upgrades	-	7,724	201	-	-	-	-	-	-	-	7,724	201
70	Synchrophasor	-	-	15,231	-	-	-	-	-	-	-	-	15,231
71	Lines - Steel Hardware Replacement	13,860	14,005	12,625	-	-	-	13,860	14,005	12,625	-	-	-
72	Lines - Wood Pole Replacements	33,736	42,259	46,094	-	-	-	33,736	42,259	46,094	-	-	-
73	Spacer Damper Replacements	-	-	18,733	-	-	-	-	-	18,733	-	-	-
74	Substation Replcements	30,546	25,438	22,070	30,546	25,438	22,070	-	-	-	-	-	-
75	SUB - Capacitors (Series & Shunt)	917	620	652	917	620	652	-	-	-	-	-	-
76	SUB DC - PWR Elect - Celilo Converter Station _ PAR TFY080243	3,324	7,287	-	3,324	7,287	-	-	-	-	-	-	-
77	SVC	-	-	9,320	-	-	9,320	-	-	-	-	-	-
78	SUB AC - Bus & Structures	847	241	666	-	-	-	-	-	-	847	241	666
79	System Protection Replacements (All SPC)	18,359	25,045	30,001	18,359	25,045	30,001	-	-	-	-	-	-
80	Power System Control Replcements (All PSC)	14,300	16,874	20,789	14,300	16,874	20,789	-	-	-	-	-	-
81	TEAP Tools	1,374	1,504	2,000	-	-	-	-	-	-	1,374	1,504	2,000
82	TEAP Equipment	7,500	5,500	5,500	-	-	-	-	-	-	7,500	5,500	5,500
83	Misc. Facilities Replacements	27,950	31,690	25,848	-	-	-	-	-	-	27,950	31,690	25,848
84	PFIA & Generator Interconnection Projects	1,815	28,350	20,250	1,543	24,097	17,213	272	4,252	3,038	-	-	-
85	Radio Spectrum	1,296	-	-	-	-	-	-	-	-	1,296	-	-
86	Total Environment (PP&A)	5,384	5,380	5,393	5,384	5,380	5,393	-	-	-	-	-	-
87	TSD Program Indirect	45,619	46,075	46,996	22,809	23,037	23,498	13,686	13,822	14,099	9,124	9,215	9,399
88	AFUDC	33,400	37,273	31,229	16,700	18,637	15,615	10,020	11,182	9,369	6,680	7,455	6,246
89	Corporate Overhead - Updated 5/9/12	50,031	56,426	57,831	25,015	28,213	28,915	15,009	16,928	17,349	10,006	11,285	11,566
90	TOTALS:	330,098	474,000	597,837	164,195	275,011	239,654	90,251	109,439	227,712	75,652	89,550	130,471

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

(A) Fiscal Years -->	(B) <u>2010</u>	(C) <u>2011</u>	(D) <u>2012</u>	
1 Total O&M by historical fiscal year by category				
2 Table 1 - Total O&M assigned to facilities				
3	SUBSTATION OPERATIONS	20,238,600	21,286,376	21,946,547
4	HEAVY MOBILE EQUIPMENT MAINT	(79,059)	379,409	0
5	JOINT COST MAINTENANCE	96,508	58,410	145,575
6	NON-ELECTRIC MAINTENANCE	18,241,006	23,548,403	25,900,105
7	POWER SYSTEM CONTROL MAINT	11,578,547	11,957,956	12,636,964
8	ROW MAINTENANCE	7,965,378	10,386,243	5,243,045
9	SUBSTATION MAINTENANCE	23,809,402	25,521,841	28,056,157
10	SYSTEM MAINTENANCE MANAGEMENT	5,277,458	5,291,643	4,878,771
11	SYSTEM PROTECTION CONTRL MAINT	11,377,126	11,388,170	11,650,553
12	TECHNICAL TRAINING	2,587,595	2,530,457	2,442,809
13	TRANSMISSION LINE MAINTENANCE	21,075,730	22,921,056	24,983,814
14	VEGETATION MANAGEMENT	20,582,979	11,696,219	16,140,726
15	ENVIRONMENTAL ANALYSIS	47,557	21,372	9,952
16	POLLUTION PREVENTN & ABATEMENT	2,870,498	3,236,252	3,288,405
17	Total (assigned)	145,669,323	150,223,806	157,323,422
18 Table 2 - Total O&M directly identified with Ancillary Services				
19	CONTROL CENTER SUPPORT	11,088,350	14,753,404	13,645,553
20	INFORMATION TECHNOLOGY	5,333,553	6,768,154	9,097,766
21	POWER SYSTEM DISPATCHING	11,723,807	11,648,816	12,088,991
22	TECHNICAL OPERATIONS	4,557,317	4,724,968	3,816,151
23	SCHED-AFTER-THE-FACT	217,882	155,899	235,830
24	SCHED-MANAGE SPRVISION & ADMIN	0	(10,948)	
25	SCHED-PRE-SCHEDULING	187,628	240,302	216,005
26	SCHED-REAL-TIME SCHEDULING	3,676,976	3,950,070	3,758,396
27	SCHED-RESERVATIONS	2,240,902	3,850,292	4,063,568
28	SCHED-TECHNICAL SUPPORT	1,806,571	1,226,234	948,115
29	Total (Ancillary Services)	40,832,988	47,307,189	47,870,375
30	Average over 3 fiscal years	45,336,850		
31 Table 3 - Total O&M identified as overhead expenses				
32	AIRCRAFT SERVICES	1,135,149	1,121,457	1,082,140
33	EXECUTIVE & ADMIN SERVICES	12,407,347	12,179,491	12,204,386
34	GENERAL ADMINISTRATIVE	5,339,338	10,191,414	13,995,343
35	LEGAL SUPPORT - EXPENSE	2,305,057	2,608,620	3,033,813
36	LOGISTICS SERVICES	4,119,706	3,532,420	4,839,405
37	MKTG BUSINESS STRAT & ASSESS	6,005,440	6,426,322	6,602,584
38	MKTG CONTRACT MANAGEMENT	3,880,283	4,058,129	4,441,589
39	MKTG INTERNAL OPERATIONS	0	1,734	(578)
40	MKTG TRANSMISSION BILLING	2,047,832	2,226,070	2,228,514
41	MKTG TRANSMISSION FINANCE	305,050	269,957	285,742
42	MKTG TRANSMISSION SALES	2,355,792	2,318,854	2,786,700
43	SECURITY ENHANCEMENTS EXPENSE	541,653	482,339	475,101
44	Total (overhead)	40,442,648	45,416,807	51,974,739
45	Average over 3 fiscal years	45,944,731		
46	Grand Total historical O&M	226,944,959	242,947,801	257,168,537
47 Assignment of historical O&M to facilities				
48 Table 4 - O&M by historical fiscal year by category directly identified with specific facilities				
49	HEAVY MOBILE EQUIPMENT MAINT	18,879	2,087	279
50	JOINT COST MAINTENANCE	93,815	57,923	145,575
51	NON-ELECTRIC MAINTENANCE	5,072,939	10,672,660	11,079,622
52	POWER SYSTEM CONTROL MAINT	3,588,085	3,633,909	3,355,632
53	SUBSTATION MAINTENANCE	14,165,649	15,734,558	17,594,912
54	SUBSTATION OPERATIONS	8,619,774	8,641,259	9,200,514
55	SYSTEM MAINTENANCE MANAGEMENT	9,437	8,650	11,075
56	SYSTEM PROTECTION CONTRL MAINT	5,073,655	4,884,812	5,729,228
57	TRANSMISSION LINE MAINTENANCE	6,235,947	6,574,950	7,567,195
58	POLLUTION PREVENTN & ABATEMENT	3,203	728	1,393
59	Total	42,881,383	50,211,536	54,685,425

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

(A) Fiscal Years -->	(B) <u>2010</u>	(C) <u>2011</u>	(D) <u>2012</u>	
60	Table 5 - O&M not directly identified with facilities (table 1 minus table 4)			
61	SUBSTATION OPERATIONS	11,618,826	12,645,117	12,746,033
62	HEAVY MOBILE EQUIPMENT MAINT	(97,938)	377,321	(279)
63	JOINT COST MAINTENANCE	2,693	488	0
64	NON-ELECTRIC MAINTENANCE	13,168,067	12,875,743	14,820,483
65	POWER SYSTEM CONTROL MAINT	7,990,463	8,324,047	9,281,332
66	ROW MAINTENANCE	7,965,378	10,386,243	5,243,045
67	SUBSTATION MAINTENANCE	9,643,754	9,787,283	10,461,245
68	SYSTEM MAINTENANCE MANAGEMENT	5,268,020	5,282,993	4,867,696
69	SYSTEM PROTECTION CONTRL MAINT	6,303,470	6,503,358	5,921,325
70	TECHNICAL TRAINING	2,587,595	2,530,457	2,442,809
71	TRANSMISSION LINE MAINTENANCE	14,839,783	16,346,106	17,416,619
72	VEGETATION MANAGEMENT	20,582,979	11,696,219	16,140,726
73	ENVIRONMENTAL ANALYSIS	47,557	21,372	9,952
74	POLLUTION PREVENTN & ABATEMENT	2,867,295	3,235,524	3,287,011
75	Total	102,787,940	100,012,270	102,637,997
76	*** Subtotal cat. with no direct facility	31,183,508	24,634,290	23,836,532
77	Transmission line assignment			
78	Table 6 - Directly identified with transmission lines			
79	NON-ELECTRIC MAINTENANCE	53	261	
80	SUBSTATION MAINTENANCE	9,448	6,597	8,604
81	SUBSTATION OPERATIONS	4,422	6,694	2,934
82	SYSTEM PROTECTION CONTRL MAINT	1,079		
83	TRANSMISSION LINE MAINTENANCE	6,235,947	6,574,950	7,567,195
84	Total	6,250,948	6,588,503	7,578,733
85	Table 7 - Assigned to transmission lines (table 5 times ratio of table 6 over table 4)			
86	SUBSTATION OPERATIONS	5,960	9,795	4,064
87	NON-ELECTRIC MAINTENANCE	137	315	0
88	SUBSTATION MAINTENANCE	6,432	4,104	5,116
89	SYSTEM PROTECTION CONTRL MAINT	1,341	0	0
90	TRANSMISSION LINE MAINTENANCE	14,839,783	16,346,106	17,416,619
91	Total	14,853,654	16,360,320	17,425,799
92	allocation of O&M with no direct facility identification			
93	(line 76 times line 84 over line 59)	4,545,714	3,232,386	3,303,453
94	Subtotal transmission line assignment	25,650,316	26,181,209	28,307,985
95	Line multiplier (line 94 over line 84)	4.103	3.974	3.735
96	Substation assignment			
97	Table 8 - Directly identified with substations			
98	HEAVY MOBILE EQUIPMENT MAINT	18,879	2,087	279
99	JOINT COST MAINTENANCE	93,815	57,923	145,575
100	NON-ELECTRIC MAINTENANCE	5,041,909	10,650,687	11,065,984
101	POWER SYSTEM CONTROL MAINT	3,551,366	3,599,813	3,327,946
102	SUBSTATION MAINTENANCE	14,115,376	15,615,436	17,545,026
103	SUBSTATION OPERATIONS	8,585,257	8,592,875	9,159,462
104	SYSTEM MAINTENANCE MANAGEMENT	9,437	8,650	11,075
105	SYSTEM PROTECTION CONTRL MAINT	4,936,318	4,742,600	5,612,365
106	POLLUTION PREVENTN & ABATEMENT	3,203	728	1,393
107	Total	36,355,560	43,270,800	46,869,106
108	Table 9 - Assigned to substations (table 5 times ratio of table 8 over table 4)			
109	HEAVY MOBILE EQUIPMENT MAINT	(97,938)	377,321	(279)
110	JOINT COST MAINTENANCE	2,693	488	0
111	NON-ELECTRIC MAINTENANCE	13,087,520	12,849,235	14,802,242
112	POLLUTION PREVENTN & ABATEMENT	2,867,295	3,235,524	3,287,011
113	POWER SYSTEM CONTROL MAINT	7,908,692	8,245,944	9,204,755
114	SUBSTATION MAINTENANCE	9,609,529	9,713,186	10,431,585
115	SUBSTATION OPERATIONS	11,572,298	12,574,315	12,689,161
116	SYSTEM MAINTENANCE MANAGEMENT	5,268,020	5,282,993	4,867,696
117	SYSTEM PROTECTION CONTRL MAINT	6,132,844	6,314,026	5,800,544
118	Total	56,350,953	58,593,031	61,082,715

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

(A)	(B)	(C)	(D)
Fiscal Years -->	<u>2010</u>	<u>2011</u>	<u>2012</u>
119 allocation of O&M with no direct facility identification			
120 (line 76 times line 107 over line 59)	26,437,904	21,229,095	20,429,519
121 Subtotal substation assignment	<u>119,144,417</u>	<u>123,092,926</u>	<u>128,381,340</u>
122 Substation multiplier (line 121 over line 107)	3.277	2.845	2.739
123 Metering station assignment			
124 Table 10 - Directly identified with metering stations			
125 NON-ELECTRIC MAINTENANCE	30,977	21,711	13,637
126 POWER SYSTEM CONTROL MAINT	36,719	34,096	27,686
127 SUBSTATION MAINTENANCE	40,825	112,524	41,281
128 SUBSTATION OPERATIONS	30,096	41,690	38,118
129 SYSTEM PROTECTION CONTRL MAINT	136,258	142,212	116,863
130 Total	<u>274,875</u>	<u>352,233</u>	<u>237,586</u>
131 Table 11 - Assigned to metering stations (table 5 times ratio of table 10 over table 4)			
132 SUBSTATION OPERATIONS	40,567	61,007	52,808
133 NON-ELECTRIC MAINTENANCE	80,409	26,193	18,241
134 POWER SYSTEM CONTROL MAINT	81,771	78,103	76,577
135 SUBSTATION MAINTENANCE	27,793	69,993	24,544
136 SYSTEM PROTECTION CONTRL MAINT	169,286	189,332	120,781
137 Total	<u>399,826</u>	<u>424,628</u>	<u>292,951</u>
138 allocation of O&M with no direct facility identification			
139 (line 76 times line 130 over line 59)	199,890	172,809	103,560
140 Subtotal metering station assignment	<u>874,590</u>	<u>949,670</u>	<u>634,097</u>
141 Metering multiplier (line 140 over line 130)	3.182	2.696	2.669

