

BP-18 Rate Proceeding

Initial Proposal

Transmission Segmentation Study and Documentation

BP-18-E-BPA-07

November 2016



**TRANSMISSION SEGMENTATION STUDY
AND DOCUMENTATION**

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COMMONLY USED ACRONYMS AND SHORT FORMS

ACNR	Accumulated Calibrated Net Revenue
ACS	Ancillary and Control Area Services
AF	Advance Funding
aMW	average megawatt(s)
ANR	Accumulated Net Revenues
ASC	Average System Cost
BAA	Balancing Authority Area
BiOp	Biological Opinion
BPA	Bonneville Power Administration
Btu	British thermal unit
CDQ	Contract Demand Quantity
CGS	Columbia Generating Station
CHWM	Contract High Water Mark
CNR	Calibrated Net Revenue
COE	U.S. Army Corps of Engineers
COI	California-Oregon Intertie
Commission	Federal Energy Regulatory Commission
Corps	U.S. Army Corps of Engineers
COSA	Cost of Service Analysis
COU	consumer-owned utility
Council	Northwest Power and Conservation Council
CP	Coincidental Peak
CRAC	Cost Recovery Adjustment Clause
CSP	Customer System Peak
CT	combustion turbine
CY	calendar year (January through December)
DD	Dividend Distribution
<i>dec</i>	decrease, decrement, or decremental
DERBS	Dispatchable Energy Resource Balancing Service
DFS	Diurnal Flattening Service
DNR	Designated Network Resource
DOE	Department of Energy
DOI	Department of Interior
DSI	direct-service industrial customer or direct-service industry
DSO	Dispatcher Standing Order
EE	Energy Efficiency
EIS	Environmental Impact Statement
EN	Energy Northwest, Inc.
ESA	Endangered Species Act
ESS	Energy Shaping Service
e-Tag	electronic interchange transaction information
FBS	Federal base system
FCRPS	Federal Columbia River Power System
FCRTS	Federal Columbia River Transmission System

FELCC	firm energy load carrying capability
FORS	Forced Outage Reserve Service
FPS	Firm Power and Surplus Products and Services
FPT	Formula Power Transmission
FY	fiscal year (October through September)
G&A	general and administrative (costs)
GARD	Generation and Reserves Dispatch (computer model)
GMS	Grandfathered Generation Management Service
GSR	Generation Supplied Reactive
GRSPs	General Rate Schedule Provisions
GTA	General Transfer Agreement
GWh	gigawatthour
HLH	Heavy Load Hour(s)
HOSS	Hourly Operating and Scheduling Simulator (computer model)
HYDSIM	Hydrosystem Simulator (computer model)
IE	Eastern Intertie
IM	Montana Intertie
<i>inc</i>	increase, increment, or incremental
IOU	investor-owned utility
IP	Industrial Firm Power
IPR	Integrated Program Review
IR	Integration of Resources
IRD	Irrigation Rate Discount
IRM	Irrigation Rate Mitigation
IS	Southern Intertie
kcfs	thousand cubic feet per second
kW	kilowatt
kWh	kilowatthour
LDD	Low Density Discount
LLH	Light Load Hour(s)
LPP	Large Project Program
LPTAC	Large Project Targeted Adjustment Charge
Maf	million acre-feet
Mid-C	Mid-Columbia
MMBtu	million British thermal units
MRNR	Minimum Required Net Revenue
MW	megawatt
MWh	megawatthour
NCP	Non-Coincidental Peak
NEPA	National Environmental Policy Act
NERC	North American Electric Reliability Corporation
NFB	National Marine Fisheries Service (NMFS) Federal Columbia River Power System (FCRPS) Biological Opinion (BiOp)
NLSL	New Large Single Load
NMFS	National Marine Fisheries Service
NOAA Fisheries	National Oceanographic and Atmospheric Administration Fisheries

NORM	Non-Operating Risk Model (computer model)
Northwest Power Act	Pacific Northwest Electric Power Planning and Conservation Act
NP-15	North of Path 15
NPCC	Pacific Northwest Electric Power and Conservation Planning Council
NPV	net present value
NR	New Resource Firm Power
NRFS	NR Resource Flattening Service
NT	Network Integration
NTSA	Non-Treaty Storage Agreement
NUG	non-utility generation
NWPP	Northwest Power Pool
OATT	Open Access Transmission Tariff
O&M	operation and maintenance
OATI	Open Access Technology International, Inc.
OS	Oversupply
OY	operating year (August through July)
PDCI	Pacific DC Intertie
Peak	Peak Reliability (assessment/charge)
PF	Priority Firm Power
PFp	Priority Firm Public
PFx	Priority Firm Exchange
PNCA	Pacific Northwest Coordination Agreement
PNRR	Planned Net Revenues for Risk
PNW	Pacific Northwest
POD	Point of Delivery
POI	Point of Integration or Point of Interconnection
POR	Point of Receipt
Project Act	Bonneville Project Act
PS	Power Services
PSC	power sales contract
PSW	Pacific Southwest
PTP	Point to Point
PUD	public or people's utility district
PW	WECC and Peak Service
RAM	Rate Analysis Model (computer model)
RCD	Regional Cooperation Debt
RD	Regional Dialogue
REC	Renewable Energy Certificate
Reclamation	U.S. Bureau of Reclamation
RDC	Reserves Distribution Clause
REP	Residential Exchange Program
REPSIA	REP Settlement Implementation Agreement
RevSim	Revenue Simulation Model
RFA	Revenue Forecast Application (database)
RHWM	Rate Period High Water Mark

ROD	Record of Decision
RPSA	Residential Purchase and Sale Agreement
RR	Resource Replacement
RRS	Resource Remarketing Service
RSC	Resource Shaping Charge
RSS	Resource Support Services
RT1SC	RHWM Tier 1 System Capability
SCD	Scheduling, System Control, and Dispatch rate
SCS	Secondary Crediting Service
SDD	Short Distance Discount
SILS	Southeast Idaho Load Service
Slice	Slice of the System (product)
T1SFCO	Tier 1 System Firm Critical Output
TCMS	Transmission Curtailment Management Service
TGT	Townsend-Garrison Transmission
TOCA	Tier 1 Cost Allocator
TPP	Treasury Payment Probability
TRAM	Transmission Risk Analysis Model
Transmission System Act	Federal Columbia River Transmission System Act
Treaty	Columbia River Treaty
TRL	Total Retail Load
TRM	Tiered Rate Methodology
TS	Transmission Services
TSS	Transmission Scheduling Service
UAI	Unauthorized Increase
UFT	Use of Facilities Transmission
UIC	Unauthorized Increase Charge
ULS	Unanticipated Load Service
USACE	U.S. Army Corps of Engineers
USBR	U.S. Bureau of Reclamation
USFWS	U.S. Fish & Wildlife Service
VERBS	Variable Energy Resources Balancing Service
VOR	Value of Reserves
VR1-2014	First Vintage Rate of the BP-14 rate period (PF Tier 2 rate)
VR1-2016	First Vintage Rate of the BP-16 rate period (PF Tier 2 rate)
WECC	Western Electricity Coordinating Council
WSPP	Western Systems Power Pool
WSPP	Western Systems Power Pool

1 **1. OVERVIEW**

2 The Bonneville Power Administration (BPA) segments, or groups, its transmission facilities
3 based on the services those facilities provide. Segments are groups of transmission facilities that
4 serve a particular function or provide a specific service, and therefore are appropriate to group
5 together for ratesetting purposes. BPA began segmenting its transmission system in the 1979
6 rate case to determine the equitable allocation of costs between Federal and non-Federal uses of
7 the transmission system, as required by section 10 of the Federal Columbia River Transmission
8 System Act, 16 U.S.C. § 838h.

9
10 Segmentation involves three primary steps:

- 11 1. defining the segments;
- 12 2. assigning facilities to the segments; and
- 13 3. determining the gross investment and historical operation and maintenance (O&M)
14 expenses for the facilities in each segment.

15 BPA uses this information to develop the segmented transmission revenue requirement. *See*
16 *Transmission Revenue Requirement Study Documentation, BP-18-E-BPA-09A, Tables 2.1 to*
17 *2.8. The segmented transmission revenue requirement is then used to set transmission rates. See*
18 *Transmission Rates Study and Documentation, BP-18-E-BPA-08.*

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1 **2. SEGMENT DEFINITIONS**

2 For the FY 2018–2019 rate period, BPA has divided its transmission system into the following
3 segments: (1) Generation Integration, (2) Network, (3) Southern Intertie, (4) Eastern Intertie,
4 (5) Utility Delivery, (6) Direct Service Industry (DSI) Delivery, and (7) Ancillary Services. This
5 Study also identifies facility investment in general plant that supports the transmission system,
6 such as communications equipment, buildings, and vehicles. *See* § 4.1.5.

7
8 **2.1 Generation Integration Segment**

9 The Generation Integration segment consists of facilities that connect Federal generating plants
10 to BPA’s transmission facilities. Generation Integration facilities are the same type of facilities
11 that BPA requires other entities to provide to interconnect non-Federal generators. Because the
12 purpose of the Generation Integration facilities is to interconnect Federal generation with BPA’s
13 transmission system, the costs associated with these facilities are assigned to and recovered
14 through BPA’s power rates.

15
16 This segment includes:

- 17 • generator step-up transformers, which transform voltage from the generation level to the
18 transmission level;
- 19 • transmission lines between the generating facility and the first substation at which the
20 power enters the Network segment; and
- 21 • substation terminal equipment, such as disconnect switches and circuit breakers
22 associated with integrating Federal generation, installed and assigned to the Generation
23 Integration segment prior to the development of the Direct Assignment Guidelines in the
24 late 1990s (the guidelines have been revised and are now known as the Facility
25 Ownership and Cost Assignment Guidelines). This treatment is consistent with the
26 BP-16 Administrator’s Final Record of Decision. *See* Administrator’s Final Record of
27 Decision, BP-16-A-02, at 67.

2.2 Network Segment

The Network segment is the core of BPA’s transmission system. The facilities in this segment support the transmission of power from Federal and non-Federal generation sources or interties to the load centers of BPA’s transmission customers in the Pacific Northwest and to other segments (e.g., an intertie or delivery segment). The Network segment provides several benefits to BPA and its customers, including displacement (local generation flowing to the nearest load instead of the remote generation that is scheduled to serve that load), bulk power transfers, voltage regulation, and increased overall reliability resulting from alternative resource and transmission pathways. The costs of the Network segment are recovered through the Formula Power Transmission rate, the Integration of Resources rate, the Network Integration rate, the Advanced Funding rate, the Use-of-Facilities Transmission rate, and the Point-to-Point rate.

This segment includes:

- transmission lines, substation equipment, and associated station general that support the transmission of power from Federal and non-Federal generation sources and points of delivery to customers’ systems and to other BPA segments;
- transmission lines, substation equipment, and associated station general that interconnect customer facilities with BPA’s facilities and that have been determined to be BPA’s responsibility to build and own based on the Facility Ownership and Cost Assignment Guidelines, and that are not included in any of the other segments; and
- facilities that have been “grandfathered” in the Network segment consistent with the decision from BP-16, even if the facilities would be directly assigned under the Facility Ownership and Cost Assignment Guidelines if constructed today. *Id.* at 69-76.

2.3 Southern Intertie Segment

The Southern Intertie segment is a system of transmission lines and substations used primarily to transmit power between the Pacific Northwest and California. Segmenting the Southern Intertie separately from the Network recognizes BPA's contractual obligations regarding the assignment of cost for the construction and ongoing use of Southern Intertie facilities. BPA recovers the costs of the Southern Intertie segment through the Southern Intertie rates.

This segment includes:

- the 1,000-kV direct-current (DC) line from the Celilo converter station near The Dalles, Oregon, to the Nevada-Oregon border, including the Celilo converter station equipment and the terminal equipment in the Big Eddy substation supporting the DC line, along with associated station general;
- the multiple 500-kV alternating-current (AC) lines from north-central Oregon to the California-Oregon border and all associated terminals and supporting station general, including BPA's share of the Alvey-Dixonville-Meridian line (jointly owned with PacifiCorp), except for (1) one of the 500-kV AC lines from Grizzly substation to Malin substation in central Oregon and associated terminals (owned by Portland General Electric Company), and (2) the Captain Jack-Malin #2 line, Summer Lake-Malin line, and Meridian-Captain Jack line, and associated terminals (owned by PacifiCorp); and
- certain other facilities determined to support the facilities specified above, including one of the 500-kV AC lines between John Day and Big Eddy substations, a 500-kV AC line between Coyote Springs and Slatt substations, a 500-kV AC line between Slatt and John Day substations, and the dynamic braking resistor at Chief Joseph substation.

2.4 Eastern Intertie Segment

The Eastern Intertie segment facilities provide a transmission path from Montana (primarily for the Colstrip generating project) to the Network segment. These facilities were built pursuant to the Montana Intertie Agreement, which provides that the costs associated with building and maintaining the facilities will be recovered from the parties to the agreement through the Townsend-Garrison Transmission rate. This segment includes the double-circuit 500-kV line between Townsend and Garrison, Montana, and associated terminal equipment and supporting station general at Garrison substation. The costs associated with the Eastern Intertie are recovered through the Townsend-Garrison Transmission rate, the Montana Intertie rate, and the Eastern Intertie rate.

2.5 Utility Delivery Segment

The Utility Delivery segment consists of low-voltage transmission lines and substation equipment associated with supplying power directly to utility distribution systems. Utility Delivery equipment is distinguished from Network equipment in that Utility Delivery transforms power down to the customer's distribution voltage, whereas Network equipment transmits power at voltages that the customer must step down (reduce) before the power enters the customer's distribution system. Utility Delivery equipment provides service to only a small subset of BPA's transmission customers. This equipment does not provide reliability benefits to the Network segment. BPA recovers the costs of this equipment through the Utility Delivery rate.

This segment includes:

- step-down transformers and associated low-side switching and protection equipment; and
- two short low-voltage lines, one from BPA's Albany substation to DOE's National Energy Technology Laboratory, and one from BPA's Hood River substation to Hood River Electric Cooperative.

1 **2.6 Direct Service Industry Delivery Segment**

2 This segment consists of transformers and low-side switching and protection equipment at the
3 Intalco, Conkelley, and Trentwood substations necessary to step down transmission voltages to
4 industrial voltages (*i.e.*, 6.9 or 13.8 kV) to supply power to direct-service industry (DSI)
5 customers. Because this equipment serves the distinct purpose of supplying power to DSI
6 customers, BPA segments the equipment separately and allocates the cost to the DSI Delivery
7 segment. Customers that utilize this equipment pay the Use-of-Facilities-Transmission rate.

8
9 **2.7 Ancillary Services Segment**

10 This segment consists of control equipment and associated communications equipment necessary
11 for BPA to provide Scheduling, System Control, and Dispatch (SCD) service. Because this
12 equipment serves the distinct purpose of supporting BPA's provision of SCD services, BPA
13 assigns it to the Ancillary Services segment and recovers its costs through the SCD rate.

14
15 This segment includes:

- 16 • monitoring and supervisory control equipment;
- 17 • associated communications equipment; and
- 18 • control center hardware and software.

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3. ASSIGNING FACILITIES TO THE SEGMENTS

After the segments are defined, equipment and facilities are assigned to the various segments based on the definitions set forth in section 2. Appendix A to this study, which lists the facilities included in each segment, identifies:

- facilities (lines and stations) whose transmission plant investment is assigned solely to one segment;
- multi-segmented facilities whose transmission plant investment is assigned to several segments;
- facilities with depreciable land investment assigned by segment;
- facilities with ancillary service investment assigned to the Ancillary Services segment; and
- facilities with general plant investment.

The following resources may be consulted to segment the facilities:

- One-line diagrams identify the location, interconnectivity, and ownership of transmission lines, substations, circuit breakers, and transformers.
- Installation and maintenance records identify major equipment (*e.g.*, transformers, circuit breakers, and reactive equipment) installed or maintained by BPA. BPA uses these records to identify and associate specific equipment in the plant accounting records with the equipment identified on the one-line diagrams. This association is particularly useful in allocating investment in facilities that support more than one function and whose costs are allocated to more than one segment. Multi-segmented facilities that support more than one function are described in more detail in section 3.1.
- Agreements, such as those relating to the construction and operation of the Southern and Eastern Interties, which specify how the costs for certain facilities will be allocated.

3.1 Multi-Segmented Facilities

Some facilities, referred to as multi-segmented facilities, support more than one segment.

For multi-segmented lines, investment is generally allocated to multiple segments according to percentages established by contract. If the allocation of multi-segmented lines is not established by contract, BPA uses line mileage to develop percentages that reflect which segments the line supports. For example, if two miles of a 20-mile line are used to integrate Federal generation, and after two miles a tap off the line integrates a non-Federal generator into the Network, 10 percent of the line investment is segmented to Generation Integration and 90 percent is segmented to the Network.

For multi-segmented substations, the process is more involved. First, the segment definitions described in section 2 are used to determine the segments a substation supports. If a substation supports the Utility Delivery segment, only the transformer and low-side equipment are assigned to the Utility Delivery segment. The remaining investment in the substation is allocated to all other applicable segments according to the following process:

1. The investment in major equipment in the substation (*e.g.*, circuit breakers, transformers, and reactive devices, all of which are tracked separately in the investment records) is grouped by type and voltage level. For example, a substation may have 230-kV equipment that supports the Network and Generation Integration segments and reactive devices that support only the Network. The investment in this substation would be separated into two groups, a 230-kV shared group that is segmented to both Generation Integration and the Network (as described below) and a reactive group that is segmented entirely to the Network.
2. The investment in common equipment for the substation and station general, such as buildings and fences, is allocated to each group based on the investment in major equipment. In the example above, if the 230-kV shared group is assigned 80 percent of

1 the investment in major equipment, the 230-kV group is also assigned 80 percent of the
2 investment in common equipment and station general.

- 3 3. The total investment in each shared group is then allocated to the segments that the group
4 supports based on the number of terminals in each segment. A terminal connects a
5 transmission line, power transformer, or reactive device to substation bus work so that
6 power can flow. A terminal typically consists of a power circuit breaker (or,
7 alternatively, a circuit switcher in some stations), disconnect switches, and protective
8 relaying. All terminals rely on the equipment in the shared group to transmit power
9 between the lines, transformers, and reactive devices to which they are connected at the
10 substation. Therefore, the cost of the shared group is assumed to be shared equally
11 among the terminals. In the above example, if the 230-kV shared group supports four
12 Network terminals and two Generation Integration terminals, two-thirds (four of six
13 terminals) of the 230-kV shared group investment is allocated to the Network segment,
14 and one-third (two of six) is allocated to the Generation Integration segment.

15
16 As described further in section 4, the percentage of the total investment in each segment is used
17 to allocate the historical O&M expenses for each facility to the different segments. Appendix A
18 identifies the percentage of each facility allocated to each segment and the associated investment
19 and historical O&M expenses assigned to the segment.

20 21 **3.2 Facilities Not Assigned to a Segment**

22 Some transmission equipment and facilities are not assigned to a particular segment because they
23 cannot be identified with a particular type of service. For example, emergency equipment spares
24 support most or all the segments and therefore are not assigned to a particular segment. The
25 transmission plant investment associated with these facilities is allocated to all of the segments
26 on a pro rata basis. For example, if 80 percent of the directly assigned investment in station

1 equipment is segmented to the Network segment, then 80 percent of the investment in station
2 equipment that is not directly assigned is also segmented to the Network. Table 2, at lines 4
3 and 18, shows the allocation of the investment in these facilities.

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1 **4. DETERMINING AND ALLOCATING INVESTMENT AND**
2 **HISTORICAL O&M EXPENSES TO THE SEGMENTS**

3 Once the segmentation of facilities is determined, the investment and historical O&M expenses
4 by segment are calculated. As described below, the investment associated with each segment is
5 determined by aggregating the investment of the facilities allocated to each segment. The
6 historical O&M expenses are similarly aggregated by segment. The segmented investment and
7 the historical O&M expenses are used in the Revenue Requirement Study to assign costs to each
8 segment.

9
10 The segmented investment through September 30, 2015, is shown in Table 2. The segmented
11 expected future plant investment is shown in Table 3.1. The historical O&M by segment for
12 FY 2009 to FY 2015 is shown in Table 4.1.

13
14 **4.1 Gross Investment in Existing Facilities**

15 BPA’s gross investment is shown in Table 1 and illustrated in the associated chart. The
16 investment related to (1) transmission plant, including leased assets, emergency stock, and
17 intangibles, (2) depreciable land, and (3) general plant is identified and segmented in the
18 segmentation process. These investments are described in more detail below. The gross
19 investment is identified from BPA’s investment records as of FY 2015, which is the most
20 recently completed fiscal year at the time that this Study is being prepared.

21
22 **4.1.1 Transmission Plant Investment**

23 Transmission plant investment refers to investment in lines and substations, as defined in FERC
24 accounts 352 through 359, 390, and 391, and investment in some leased facilities (which are not
25 classified by FERC account). See Table 2. The total transmission plant investment, including
26 leased facilities but excluding Projects Funded in Advance (PFIA), is \$6.9 billion as of the end of
27 FY 2015 (Table 1, line 23). PFIA are projects funded by the customers taking service over the

1 new facilities. The costs of the new facilities are assigned to and funded by customers consistent
2 with the Facility Ownership and Cost Assignment Guidelines. Other than PFIA, transmission
3 plant investment associated with specific facilities is allocated to segments based on the
4 assignment of facilities to the segments as described in section 3.

6 **4.1.2 Intangible Investment**

7 Intangible investment is BPA's share of financial participation in facilities owned by other
8 entities (BPA's capacity rights). In each case, the investment supports either the Network or the
9 Southern Intertie segment. For the FY 2018–2019 rate period, the investment is segmented to
10 one of these two segments based on the segment each facility supports. As shown in Table 2,
11 line 29, BPA has \$9.6 million of intangible investment.

13 **4.1.3 Land Investment**

14 Land owned by BPA is not depreciated, and therefore no amortized costs for land need to be
15 segmented. However, BPA does have leased land that is depreciable (\$48.7 million, Table 2,
16 line 37) and which therefore must be segmented. Most of the leased land (\$47.9 million,
17 Table 2, line 34, columns H and I) is used for rights-of-way for transmission lines and is
18 segmented according to the type of service provided by the associated transmission lines. For
19 example, leased land that supports a transmission line segmented to the Network segment is
20 allocated to that segment.

21
22 BPA also has depreciable leased land (\$0.72 million, Table 2, line 35) associated with radio
23 stations that is not assigned to a specific segment because communication facilities, such as radio
24 stations, generally support all the segments. Therefore, the investment associated with this
25 leased land is prorated to the segments based on the total of the line and station investment
26 allocated to each segment.

1 **4.1.4 Ancillary Service Investment**

2 BPA has \$164.6 million in ancillary service investment. Table 2, line 41. This investment
3 includes equipment designated as control equipment (\$80.1 million, line 43), hardware and
4 software at the control centers supporting scheduling and dispatch (\$26.3 million, line 46), and
5 communications equipment supporting Supervisory Control and Data Acquisition (SCADA)
6 (\$58.3 million, line 52). This investment is all allocated to the Ancillary Services segment.
7

8 **4.1.5 General Plant Investment**

9 General plant investment is associated with equipment of a general nature (FERC accounts 390
10 through 398, with some amounts identified in FERC accounts 352, 353, and 356). *See* Table 2.
11 BPA’s telecommunications system facilities (such as radio stations), maintenance buildings, and
12 vehicles are examples of general plant investment. Through FY 2015, BPA’s general plant
13 investment (less PFIA) was \$942.9 million. Table 2, line 41. General plant investment is not
14 allocated to the segments in this Study. In the Transmission Revenue Requirement Study, the
15 depreciation cost associated with this investment is treated as an overhead expense and allocated
16 pro rata to the segments based on the segmented O&M expenses. *See* Transmission Revenue
17 Requirement Study Documentation, BP-18-E-BPA-09A, § 2.2.
18

19 **4.2 Retirement of Existing Facilities and Installation of New Facilities**

20 As this Study is being prepared, BPA has the actual investment figure for facilities in place as of
21 the end of FY 2015. To estimate the investment that will be in place during the FY 2018–2019
22 rate period, this figure is adjusted to remove investment in facilities expected to be retired or
23 sold, and to include the forecast of facilities expected to be installed after the end of FY 2015 and
24 before the end of FY 2019. Table 3.1 summarizes the expected station and line investment by
25 segment for fiscal years 2016 through 2019.
26

1 New facility investment is identified in BPA’s Integrated Program Review (IPR) process. No
2 specific facilities are identified for retirement in this study. However, as discussed in the
3 Transmission Revenue Requirement Study, the expected investment in new station facilities has
4 been reduced based on historical ratios of retired equipment to new replacement equipment.
5 Transmission Revenue Requirement Study Documentation, BP-18-E-BPA-09A, § 9.2.

7 **4.3 Operations and Maintenance Expense**

8 This study includes historical O&M expenses from plant record data for the last seven fiscal
9 years (2009 through 2015). O&M expenses are categorized into three groups (*see* Table 4.2):

- 10 1. O&M allocated to lines and substations;
- 11 2. scheduling and system operations allocated to the Ancillary Services segment; and
- 12 3. marketing and business support identified as overhead.

13
14 The O&M expenses allocated to lines and substations include substation operations, various
15 transmission maintenance programs, technical training, vegetation management, and
16 environmental expenses, such as pollution controls. These expenses are segmented according to
17 the facilities supported (*see* Table 4.3). The seven-year historical line and substation O&M
18 expenses average \$162.2 million annually (Table 4.1, line 16). The segmented historical costs
19 are used to allocate the projected future O&M costs. *See* Transmission Revenue Requirement
20 Study Documentation, BP-18-E-BPA-09A, § 2.2.

21
22 Scheduling costs and system operations costs are for staff and technology associated with
23 reserving, scheduling, monitoring, controlling, and dispatching the transmission system. The
24 seven-year average historical scheduling and dispatch cost is \$48.8 million. Table 4.1, line 18.
25 Rate period forecast scheduling and system operations costs are directly assigned to the

1 Ancillary Services segment and recovered through the SCD service rate. *See* Transmission
2 Revenue Requirement Study Documentation, BP-18-E-BPA-09A, § 2.2.

3
4 Marketing and business support costs are associated with general business functions, including
5 sales and contract management, billing, business strategy, legal support, aircraft services, and
6 general administration and executive services. The seven-year historical marketing and support
7 costs average \$46.1 million. Table 4.1, line 18. Rate period forecast costs are allocated pro rata
8 on a net plant basis based on the directly assigned investment. *See* Transmission Revenue
9 Requirement Study Documentation, BP-18-E-BPA-09A, § 2.2.

10 11 **4.3.1 Historical Line and Station O&M Assignment to Segments**

12 The following process is used to segment historical O&M expenses:

- 13 1. Historical O&M expenses are identified by fiscal year and category, as shown in
14 Table 4.2. Categories are expense programs within BPA's transmission business
15 line, such as substation operations and transmission line maintenance.
- 16 2. Approximately one-third of the historical O&M expenses are associated with a
17 specific line, substation, or metering location (*i.e.*, facility type). These expenses,
18 identified as direct O&M expenses, are allocated to segments in the same
19 proportion as was the investment in the specific facility. Thus, if certain O&M
20 expenses are associated with a given substation, and 60 percent of the substation
21 investment was allocated to the Network, 60 percent of those O&M expenses are
22 allocated to the Network. If the investment in a substation is allocated entirely to
23 one segment, then the O&M is also allocated entirely to that segment. The
24 allocation of O&M for each facility is identified in Appendix A. The direct O&M
25 expenses are then aggregated by category and facility type. *See* Table 4.3.

- 1 3. Non-direct O&M expenses (that is, expenses not identified with a specific
2 facility) are aggregated by category and allocated to the facility types
3 (transmission lines, substations, or metering locations) in the same proportions as
4 the direct O&M expenses. For example, if 80 percent of direct O&M expenses
5 for substation maintenance are assigned to substations, then 80 percent of non-
6 direct O&M expenses for substation maintenance are assigned to substations.
7 Technical training and environmental analysis have no direct O&M expense and
8 are allocated to facility type in the same proportions as the total direct O&M
9 expenses for each facility type. Thus, for example, since about 18 percent of
10 direct expenses are allocated to transmission lines, 18 percent of technical training
11 expenses are allocated to transmission lines. Transmission line maintenance,
12 vegetation management, and right-of-way maintenance non-direct O&M expenses
13 are allocated entirely to transmission lines.
- 14 4. The sum of the non-direct O&M expense for each facility type is shown in
15 Table 4.3, line 15. These amounts are allocated to the segments in the same
16 proportion as the direct expenses for each facility type. For example, 90 percent
17 of direct O&M expenses for transmission lines were allocated to the Network.
18 Therefore, 90 percent of non-direct O&M expenses for transmission lines are
19 allocated to the Network. Table 4.1, lines 11 and 13.

21 **4.4 U.S. Army Corps of Engineers and U.S. Bureau of Reclamation Facilities**

22 The investment and annual O&M expenses for the U.S. Army Corps of Engineers (Corps) and
23 U.S. Bureau of Reclamation (Bureau) facilities that function as part of BPA's transmission
24 system are included in the transmission revenue requirement, even though BPA does not own
25 these facilities. The total Corps and Bureau expenses allocated to transmission were identified in
26 the BP-18 generation inputs settlement, Attachment 3. The segmentation of these expenses is

1 based on an analysis of the Corps and Bureau facilities summarized in Table 5. As shown,
2 97.9 percent of the expenses are segmented to the Network and 2.1 percent of the expenses are
3 segmented to Utility Delivery.

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TABLES

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Table 1
BPA Investment Summary, through Sept. 30, 2015
(\$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>
1 TRANSMISSION PLANT IN SERVICE	6,076,242	143,257	90,747	52,510
2 MASTER LEASE	763,346			
3 LEASED ASSETS	125,086			
4 CAPITAL LEASES	20,262			
5 EMERGENCY MINIMUM STOCK	12,993			
6 INTANGIBLES	9,559			
7 FEE LAND IN SERVICE	146,865	238	31,924	114,941
8 DEPRECIABLE FEE LAND	48,803	107	770	48,033
9 GENERAL PLANT IN SERVICE	1,014,473	45,669		
10 Corporate Plant in Service	127,031			
11 PS Plant in Service	52,324			
12 Accounting Adjustments	0			
13 Grand Total	8,396,984	189,270		
		<u>Segmented</u>	<u>Unsegmented</u>	<u>Ancillary Service</u>
Transmission Plant				
14 Substations	3,483,753			
15 Metering Locations	14,622			
16 Total Stations	3,498,375	3,488,547	9,829	
17 Total Lines	3,089,444	3,068,796	20,648	
18 Other Transmission Plant	115,205		115,205	
19 Emergency minimum stock	12,993		12,993	
20 Intangibles	9,559	9,559		
21 Communication Equipment (397)	58,590		47,420	11,171
22 Control Equipment (353.1)	80,064			80,064
23 TPLNT (inc Leases) less PFIA	6,864,231	6,566,901	206,094	91,235
General Plant				
24 Communication Equipment (397)	515,339		468,241	47,098
25 Control Equipment (353.1, 391.2.2, 391.3.2)	26,253			26,253
26 Other General Plant	427,213		427,213	
27 GPLNT less PFIA	968,804		895,453	73,351
Subtotals				
28 Communication Equipment (397)	573,929		515,661	58,269
29 Control Equipment (353.1, 391.2.2, 391.3.2)	106,317			106,317
30 Total (incl. Dep Land GPlant)			942,873	164,586

Chart 1
BPA Plant Investment
 as of September 30, 2015 \$8,396,984
 (\$000)

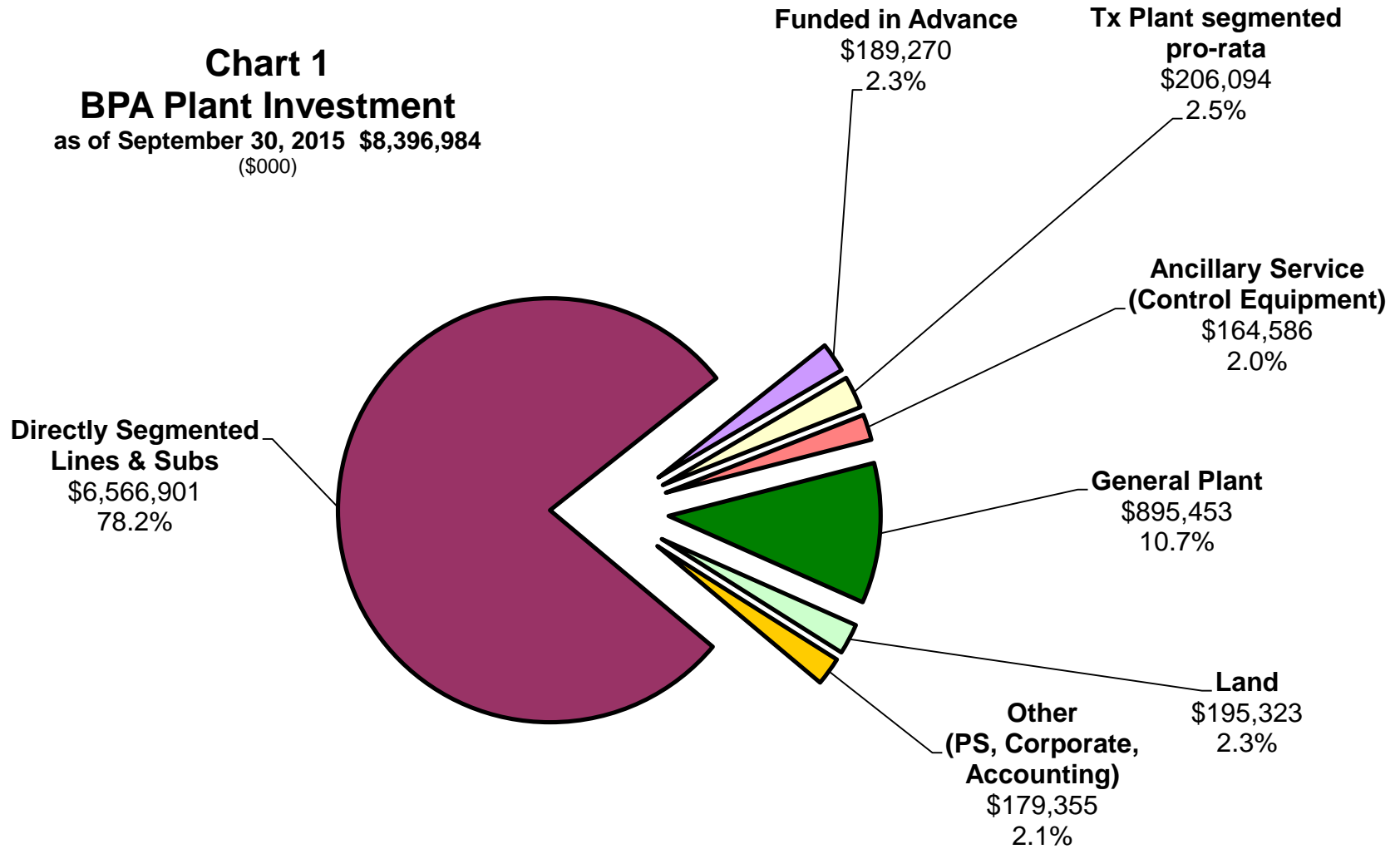


Table 2
BPA Segmented Investment, through Sept. 30, 2015
(\$000)

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>Segmented Total</u>	<u>Un-segmented</u>
1 Stations	83,050	2,743,330	614,228	27,051	10,921	9,967	3,488,547	9,829
2 Other Facilities								115,205
3 Emergency Stock								12,993
4 Unseg.Allocation	3,286	108,541	24,302	1,070	432	394	138,026	(138,026)
5 Subtotal	86,336	2,851,872	638,530	28,121	11,353	10,362	3,626,573	-
FERC Account Summary								
6 Account 352							371,114	
7 Account 353							3,234,113	
8 Account 354							11,411	
9 Account 355							1,641	
10 Account 356							4,063	
11 Account 358							111	
12 Account 359							3,381	
13 Account 390							187	
14 Account 391							484	
15 Leased (no account)							67	
16 Substation total							3,626,573	
17 Lines	18,198	2,757,138	199,020	94,271	169	-	3,068,796	20,648
18 Unseg.Allocation	122	18,551	1,339	634	1	-	20,648	(20,648)
19 Subtotal	18,321	2,775,689	200,359	94,906	170	-	3,089,444	-
FERC Account Summary								
20 Account 352							1,713	
21 Account 353							23,933	
22 Account 354							1,154,042	
23 Account 355							364,303	
24 Account 356							1,265,659	
25 Account 358							21,799	
26 Account 359							195,389	
27 Leased (no account)							62,605	
28 Line total							3,089,444	
29 Intangibles (Account 303)		4,085	5,473				9,559	

Table 2
BPA Segmented Investment, through Sept. 30, 2015
(\$000)

A	B	C	D	E	F	G	H	I
	<u>Generation</u> <u>Integration</u>	<u>Network</u>	<u>Southern</u> <u>Intertie</u>	<u>Eastern</u> <u>Intertie</u>	<u>Utility</u> <u>Delivery</u>	<u>DSI Delivery</u>	<u>Segmented</u> <u>Total</u>	<u>Un-segmented</u>
30 Lines & Subs Total	104,656	5,631,646	844,363	123,026	11,523	10,362	6,725,576	-
31 % of Segmented Total	1.6%	83.7%	12.6%	1.8%	0.2%	0.2%	100.0%	
32 Depreciable Land (Account 350)								
33 Substations	-	46	-	-	-	-	46	
34 Lines	61	47,662	-	-	-	-	47,723	204
35 Other Facilities								724
36 Unseg.Allocation	14	777	116	17	2	1	928	(928)
37 Subtotal	75	48,485	116	17	2	1	48,696	-
Other							Ancillary Services	General Plant
38 Control							106,317	
39 Communications							58,269	515,661
40 General Plant								427,213
41 Subtotal							164,586	942,873
FERC Account Summary								
42 Account 352								44
43 Account 353 (Ancillary service is control equipment only)							80,064	(5)
44 Account 356								(2)
45 Account 390								206,651
46 Account 391 (Ancillary service is control equipment only)							26,253	36,128
47 Account 392								73,605
48 Account 393								3,618
49 Account 394								10,864
50 Account 395								27,299
51 Account 396								28,218
52 Account 397 (Ancillary service is control equipment only)							58,269	515,661
53 Account 398								40,792
54 Other total							164,586	942,873
55 Segmented Investment	104,732	5,680,131	844,479	123,043	11,524	10,363	164,586	942,873

Table 3.1
Future Plant in Service Summary
(\$000)

A	B	C	D	E	F	G	H
	Generation Integration	Network	Southern Intertie	Eastern Intertie	Utility Delivery	DSI Delivery	Total
Stations							
1 FY 2016	-	193,276	298,873	170	-	-	492,318
2 FY 2017	-	128,549	93,329	110	-	-	221,989
3 FY 2018	-	222,626	7,866	81	-	-	230,573
4 FY 2019	-	171,022	20,200	118	-	-	191,340
Lines							
5 FY 2016	-	373,928	31,017	-	-	-	404,946
6 FY 2017	-	96,477	9,584	-	-	-	106,061
7 FY 2018	-	101,905	1,914	-	-	-	103,820
8 FY 2019	-	122,258	1,902	-	-	-	124,159
Lines & Subs							
9 FY 2016	-	567,204	329,890	170	-	-	897,264
10 FY 2017	-	225,026	102,913	110	-	-	328,050
11 FY 2018	-	324,532	9,780	81	-	-	334,393
12 FY 2019	-	293,280	22,101	118	-	-	315,499
		Ancillary Services	General Plant				
13 FY 2016		48,387	149,918				
14 FY 2017		26,532	175,368				
15 FY 2018		37,109	138,819				
16 FY 2019		37,074	158,005				

Table 3.2
Future Plant in Service Details
(\$000)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
Project	FY16	FY17	FY18	FY19	FY16	FY17	FY18	FY19	FY16	FY17	FY18	FY19	FY16	FY17	FY18	FY19	
1 BIG EDDY-KNIGHT 500KV PROJECT	230,502	11,176	-	-	-	23,050	1,118	-	-	184,402	8,941	-	-	23,050	1,118	-	-
2 CENTRAL FERRY- LOWER MONUMNTAL PROJECT	127,092	-	-	-	-	12,709	-	-	-	101,674	-	-	-	12,709	-	-	-
3 I-5 CORRIDOR REINFORCEMENT PROJECT	15,862	8,900	-	-	-	1,269	712	-	-	14,276	8,010	-	-	317	178	-	-
MAIN GRID PROJECTS																	
4 PORTLAND-VANCOUVER AREA	(53)	-	-	-	-	(53)	-	-	-	-	-	-	-	-	-	-	-
5 PUGET SOUND TO CANADA TRANSFER AREA	-	-	-	6,265	-	-	-	5,638	-	-	-	-	626	-	-	-	-
6 SEATTLE TO PORTLAND TRANSFER AREA	1,904	9,000	-	-	-	1,714	-	-	-	190	-	-	-	-	9,000	-	-
7 MONTANA TO NORTHWEST TRANSFER AREA	-	1,220	-	-	-	-	610	-	-	-	-	-	-	-	610	-	-
8 MISC MAIN GRID PROJECTS & COMPLIANCE	(1,654)	175	3	2,000	(1,075)	114	2	1,000	(579)	61	1	800	-	-	-	-	200
AREA & CUSTOMER SERVICE PROJECTS																	
9 BURLEY/SOUTHERN IDAHO AREA	-	-	-	2,800	-	-	-	2,800	-	-	-	-	-	-	-	-	-
10 CENTRAL OREGON AREA	116	100	-	-	-	57	-	-	-	59	100	-	-	-	-	-	-
11 CENTRALIA/CHEHALIS AREA	-	7,766	-	590	-	7,766	-	-	-	-	-	-	-	-	-	-	590
12 DE MOSS/FOSSIL AREA	-	-	2,267	-	-	-	1,892	-	-	-	375	-	-	-	-	-	-
13 EUGENE AREA	6,301	775	-	-	-	6,301	775	-	-	-	-	-	-	-	-	-	-
14 HOOD RIVER/THE DALLES AREA	-	2,359	-	-	-	-	-	-	-	-	-	-	-	-	2,359	-	-
15 LONGVIEW AREA	352	-	-	-	-	-	-	-	-	-	-	-	-	352	-	-	-
16 MID-COLUMBIA AREA	1,404	200	-	-	-	1,404	200	-	-	-	-	-	-	-	-	-	-
17 NORTH IDAHO AREA	-	-	2,826	2,000	-	-	2,750	1,500	-	-	-	-	-	-	-	76	500
18 NORTH OREGON COAST AREA	277	-	-	-	-	277	-	-	-	-	-	-	-	-	-	-	-
19 NORTHWEST MONTANA AREA	205	1,486	-	4,746	-	-	-	4,746	205	-	-	-	-	-	1,486	-	-
20 OLYMPIC PENINSULA AREA	-	3,124	-	878	-	3,124	-	878	-	-	-	-	-	-	-	-	-
21 PORTLAND AREA	-	-	1,081	5,729	-	-	1,081	5,385	-	-	-	344	-	-	-	-	-
22 SALEM/ALBANY AREA	-	1,187	-	-	-	-	-	-	-	1,187	-	-	-	-	-	-	-
23 SEATTLE/TACOMA/OLYMPIC AREA	-	2,416	33,331	2,608	-	2,090	30,998	2,295	-	86	-	52	-	241	2,333	261	-
24 SOUTH OREGON COAST AREA	(216)	-	-	-	-	(216)	-	-	-	-	-	-	-	-	-	-	-
25 SOUTHEAST IDAHO/NORTHWEST WYOMING AREA	185	-	1,234	40,822	121	-	1,234	10,205	-	-	-	30,616	65	-	-	-	-
26 SOUTHWEST WASHINGTON COAST AREA	19	75	-	-	-	-	38	-	-	-	-	-	19	38	-	-	-
27 SPOKANE/COLVILLE/BOUNDARY AREA	243	-	-	-	-	243	-	-	-	-	-	-	-	-	-	-	-
28 TRI CITIES AREA	10,967	1,498	47,217	19,970	7,923	1,498	32,181	-	733	-	15,036	19,970	2,311	-	-	-	-
29 VANCOUVER AREA	-	2,322	-	-	-	-	-	-	-	2,322	-	-	-	-	-	-	-
30 MISC. AREA & CUSTOMER SERVICE	529	-	3,098	2,000	529	-	2,330	1,500	-	-	473	400	-	-	295	100	-
31 SECURITY	11,449	8,000	6,000	8,000	11,449	8,000	6,000	8,000	-	-	-	-	-	-	-	-	-
32 IT Projects	3,215	5,000	5,000	5,000	-	-	-	-	-	-	-	-	3,215	5,000	5,000	5,000	-
33 SYSTEM TELECOMM - UPGRADES & ADDITIONS PROGRAM	21,563	25,200	26,089	21,152	-	-	-	-	-	-	-	-	21,563	25,200	26,089	21,152	-
34 MISC. FACILITIES NON-ELECTRIC - EXPAND	4,762	22,800	9,400	22,200	-	-	-	-	-	-	-	-	4,762	22,800	9,400	22,200	-
35 MISC. SYSTEM REPLACEMENTS	-	9,000	3,500	7,000	-	-	-	-	-	-	-	-	-	9,000	3,500	7,000	-
SUSTAIN PROGRAM																	
36 ACCESS ROADS - SUSTAIN	17,126	22,500	21,022	15,145	-	-	-	-	-	-	-	-	17,126	22,500	21,022	15,145	-
37 LAND RIGHTS - SUSTAIN	9,961	11,300	10,043	10,062	-	-	-	-	-	-	-	-	9,961	11,300	10,043	10,062	-
38 SUB DC - SUSTAIN	55	600	1,000	8,500	55	600	1,000	8,500	-	-	-	-	-	-	-	-	-
39 SYSTEM TELECOMM - SUSTAIN	14,372	22,000	15,000	15,000	-	-	-	-	-	-	-	-	14,372	22,000	15,000	15,000	-
40 CC SYSTEMS INFRASTRUCTURE	6,132	1,900	9,000	9,000	-	-	-	-	-	-	-	-	6,132	1,900	9,000	9,000	-

**Table 3.2
Future Plant in Service Details
(\$000)**

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
Project	FY16	FY17	FY18	FY19	FY16	FY17	FY18	FY19	FY16	FY17	FY18	FY19	FY16	FY17	FY18	FY19
41 SUB DC - UPGRADES & ADDITIONS (CELILO)	328,825	72,318	-	-	282,789	62,194	-	-	29,594	6,509	-	-	16,441	3,616	-	-
UPGRADES & ADDITIONS PROJECTS																
42 MISC UPS & ADDS	(1,358)	75	4,400	910	(1,372)	56	3,300	682	-	15	880	182	14	4	220	45
43 SUBS AC - UPS & ADDS	1,067	2,000	22,385	6,000	1,067	2,000	22,385	6,000	-	-	-	-	-	-	-	-
44 PMUS FOR EXISTING WIND SITES	1,279	-	991	-	1,264	-	739	-	12	-	64	-	3	-	189	-
SUBS AC PROGRAM																
44 SUB AC-CIRCUIT BRKR & SWTCH GR	21,388	15,000	16,180	19,215	21,388	15,000	16,180	19,215	-	-	-	-	-	-	-	-
45 SUB AC-TRANSFORMERS & REACTORS	11,281	14,500	13,360	12,382	11,281	14,500	13,360	12,382	-	-	-	-	-	-	-	-
46 SUB AC - CVT/PT/CT & ARRESTERS	2,706	2,000	2,220	2,553	2,706	2,000	2,220	2,553	-	-	-	-	-	-	-	-
47 SUB AC- SHUNT CAPACITORS	144	1,300	740	884	144	1,300	740	884	-	-	-	-	-	-	-	-
48 SUB AC - LOW VOLTAGE AUX.	16,476	12,500	5,750	7,076	16,476	12,500	5,750	7,076	-	-	-	-	-	-	-	-
49 SUB AC- BUS & STRUCTURES	294	1,600	1,750	2,111	294	1,600	1,750	2,111	-	-	-	-	-	-	-	-
50 LINES WOOD POLES SUSTAIN PROGRAM	41,610	43,000	49,040	32,000	-	-	-	-	41,610	43,000	49,040	32,000	-	-	-	-
51 LINES STEEL SUSTAIN PROGRAM	9,845	14,800	17,500	18,600	-	-	-	-	9,845	14,800	17,500	18,600	-	-	-	-
52 PSC PROGRAM	20,821	11,000	21,543	29,562	-	-	-	-	-	-	-	-	20,821	11,000	21,543	29,562
53 SPC PROGRAM	28,908	22,950	20,543	24,017	25,670	17,450	19,043	21,017	-	-	-	-	3,239	5,500	1,500	3,000
54 TEAP - TOOLS PROGRAM	925	725	885	866	-	-	-	-	-	-	-	-	925	725	885	866
55 TEAP EQUIPMENT FLEET	5,400	6,200	6,700	7,200	-	-	-	-	-	-	-	-	5,400	6,200	6,700	7,200
56 LINES - RATING PROGRAM	4,291	1,000	800	500	-	-	-	-	4,291	1,000	800	500	-	-	-	-
57 MISC NON-ELECTRIC FACILITIES	1,531	3,600	7,300	11,600	-	-	-	-	-	-	-	-	1,531	3,600	7,300	11,600
58 Total Environment (PP&A)	7,862	5,475	5,529	5,585	7,862	5,475	5,529	5,585	-	-	-	-	-	-	-	-
59 TS Program Indirect	54,418	55,418	56,249	57,093	28,297	28,817	29,249	29,688	9,251	9,421	9,562	9,706	16,870	17,179	17,437	17,699
60 Corporate Adjustments (G&A Cap Distribution)	55,187	62,412	59,344	60,958	28,697	32,454	30,859	31,698	9,382	10,610	10,089	10,363	17,108	19,348	18,397	18,897
61 TOTALS:	1,095,569	529,950	510,321	510,578	492,318	221,989	230,573	191,340	404,946	106,061	103,820	124,159	198,305	201,900	175,928	195,079

Table 4.1
BPA Historical Operations and Maintenance (O&M)
Fiscal Years 2009 through 2015 (Seven Years)
(Annual Average \$000)

A	B	C	D	E	F	G	H
	<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>
Stations							
1 Substations Direct Allocation	872	30,521	5,402	177	236	182	37,389
2 % Direct	2.33%	81.63%	14.45%	0.47%	0.63%	0.49%	100.00%
3 Unsegmented Allocation	156	5,460	966	32	42	32	6,688
4 Non-Direct Allocation	1,543	53,993	9,556	312	417	321	66,142
5 Metering Direct Allocation	14	279	-	-	26	-	318
6 % Direct	4.29%	87.67%	0.00%	0.00%	8.03%	0.00%	100.00%
7 Non-Direct Allocation	18	376	-	-	34	-	429
8 Total Station O&M	2,603	90,629	15,924	520	755	535	110,966
9 Station Percent	2.3%	81.7%	14.3%	0.5%	0.7%	0.5%	100.0%
Lines							
10 Direct Allocation	68	7,062	395	314	1	-	7,841
11 % Direct	0.87%	90.07%	5.04%	4.00%	0.02%	0.00%	100.00%
12 Unsegmented Allocation	1	147	8	7	0	-	163
13 Non-Direct Allocation	376	38,968	2,179	1,732	7	-	43,262
14 Total Line O&M	445	46,178	2,582	2,053	8	-	51,266
15 Line Percent	0.9%	90.1%	5.0%	4.0%	0.0%	0.0%	100.0%
16 Lines & Subs	3,048	136,807	18,506	2,573	763	535	162,232
17 % of Segmented Total	1.9%	84.3%	11.4%	1.6%	0.5%	0.3%	100.0%
18 Other	46,128	48,795					

Table 4.2
Historical Operation and Maintenance (O&M) Expenses FY 2009 - FY 2015 (7 years)
Total O&M by Category
(\$000)

A	B	C	D	E	F	G	H	I
	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>Average</u>
<u>O&M allocated to Lines and Stations</u>								
1 SUBSTATION OPERATIONS	19,168	20,239	21,286	21,947	21,750	22,787	23,347	21,503
2 HEAVY MOBILE EQUIPMENT MAINT	58	(79)	379	(0)	(125)	200	116	79
3 JOINT COST MAINTENANCE	142	97	58	146	123	134	175	125
4 NON-ELECTRIC MAINTENANCE	11,280	18,241	23,548	25,900	25,204	21,296	32,203	22,525
5 POWER SYSTEM CONTROL MAINT	10,271	11,579	11,958	12,637	17,623	20,791	18,939	14,828
6 ROW MAINTENANCE	7,003	7,965	10,386	5,243	7,298	7,396	6,502	7,399
7 SUBSTATION MAINTENANCE	25,522	23,809	25,522	28,056	27,726	30,365	36,926	28,275
8 SYSTEM MAINTENANCE MANAGEMENT	7,753	5,277	5,292	4,879	7,076	8,214	6,041	6,362
9 SYSTEM PROTECTION CONTRL MAINT	11,419	11,377	11,388	11,651	11,869	11,963	12,718	11,769
10 TECHNICAL TRAINING	2,466	2,588	2,530	2,443	2,211	2,087	2,317	2,377
11 TRANSMISSION LINE MAINTENANCE	21,983	21,076	22,921	24,984	26,572	27,782	27,733	24,721
12 VEGETATION MANAGEMENT	27,414	20,583	11,696	16,141	17,928	19,536	18,223	18,789
13 ENVIRONMENTAL ANALYSIS	67	48	21	10	0	5	19	24
14 POLLUTION PREVENTN & ABATEMENT	2,907	2,870	3,236	3,288	3,427	4,221	4,244	3,456
15 Subtotal Lines and Stations	147,452	145,669	150,224	157,323	168,682	176,776	189,504	162,233
<u>O&M allocated to Ancillary Services</u>								
16 CONTROL CENTER SUPPORT	11,400	11,088	14,753	13,646	14,062	19,368	20,849	15,024
17 INFORMATION TECHNOLOGY	4,572	5,334	6,768	9,098	9,115	12,522	8,103	7,930
18 POWER SYSTEM DISPATCHING	11,138	11,724	11,649	12,089	12,155	12,260	13,209	12,032
19 TECHNICAL OPERATIONS	5,242	4,557	4,725	3,816	4,410	5,854	6,288	4,985
20 SCHED-AFTER-THE-FACT	310	218	156	236	236	240	237	233
21 SCHED-MANAGE SPRVISION & ADMIN	237	0	(11)	0	0	0	0	32
22 SCHED-PRE-SCHEDULING	261	188	240	216	240	328	344	260
23 SCHED-REAL-TIME SCHEDULING	3,492	3,677	3,950	3,758	3,879	4,056	4,323	3,876
24 SCHED-RESERVATIONS	790	2,241	3,850	4,064	4,160	1,049	1,156	2,473
25 SCHED-TECHNICAL SUPPORT	1,564	1,807	1,226	948	432	3,940	3,732	1,950
26 Subtotal Ancillary Services	39,007	40,833	47,307	47,870	48,689	59,616	58,241	48,795
<u>O&M identified as Overhead</u>								
27 AIRCRAFT SERVICES	921	1,135	1,121	1,082	1,205	1,273	1,234	1,139
28 EXECUTIVE & ADMIN SERVICES	9,311	12,407	12,179	12,204	10,364	10,318	12,727	11,359
29 GENERAL ADMINISTRATIVE	6,453	5,339	10,191	13,995	9,199	13,469	12,913	10,223
30 LEGAL SUPPORT - EXPENSE	2,401	2,305	2,609	3,034	2,240	2,586	2,250	2,489
31 LOGISTICS SERVICES	3,756	4,120	3,532	4,839	4,710	5,340	5,598	4,557
32 MKTG BUSINESS STRAT & ASSESS	5,346	6,005	6,426	6,603	6,552	6,216	6,307	6,208
33 MKTG CONTRACT MANAGEMENT	3,556	3,880	4,058	4,442	4,498	4,509	4,244	4,170
34 MKTG INTERNAL OPERATIONS	0	0	2	(1)	0	0	0	0
35 MKTG TRANSMISSION BILLING	2,698	2,048	2,226	2,229	2,528	2,358	2,414	2,357
36 MKTG TRANSMISSION FINANCE	398	305	270	286	(6)	0	0	179
37 MKTG TRANSMISSION SALES	2,298	2,356	2,319	2,787	2,509	2,418	2,354	2,434
38 SECURITY ENHANCEMENTS EXPENSE	3,186	542	482	475	705	507	1,201	1,014
39 Subtotal Overhead	40,324	40,443	45,417	51,975	44,504	48,994	51,240	46,128
40 Total Historical O&M	226,783	226,945	242,948	257,169	261,875	285,385	298,985	257,156

Table 4.3
Historical Operation and Maintenance (O&M) Expenses FY 2009 - FY 2015 (7 years)
Allocation of Average Historical O&M to Lines, Substations, and Metering Locations
(\$000)

A	B	C	D	E	F	G	H	I
	Direct Charges				Non-direct Charges			
	<u>Lines</u>	<u>Subs</u>	<u>Metering</u>	<u>Subtotal</u>	<u>Lines</u>	<u>Subs</u>	<u>Metering</u>	<u>Subtotal</u>
1 SUBSTATION OPERATIONS	4	8,782	41	8,828	6	12,611	59	12,676
2 HEAVY MOBILE EQUIPMENT MAINT		4		4		75		75
3 JOINT COST MAINTENANCE		124		124		1		1
4 NON-ELECTRIC MAINTENANCE	0	8,369	18	8,388	0	14,102	35	14,137
5 POWER SYSTEM CONTROL MAINT		4,275	38	4,313		10,422	93	10,516
6 ROW MAINTENANCE 1/		34		34	7,366			7,366
7 SUBSTATION MAINTENANCE	7	17,197	59	17,263	4	10,971	37	11,012
8 SYSTEM MAINTENANCE MANAGEMENT		10		10		6,351		6,351
9 SYSTEM PROTECTION CONTRL MAINT	0	5,279	162	5,442	0	6,138	190	6,327
10 TECHNICAL TRAINING				0	360	2,003	15	2,377
11 TRANSMISSION LINE MAINTENANCE 1/	7,932			7,932	16,789			16,789
12 VEGETATION MANAGEMENT 1/	56			56	18,733			18,733
13 ENVIRONMENTAL ANALYSIS				0	4	20	0	24
14 POLLUTION PREVENTN & ABATEMENT	5	3		8		3,448		3,448
15 Total	8,005	44,077	318	52,400	43,262	66,142	429	109,833

Notes:

1/ Non-direct ROW MAINTENANCE, TRANSMISSION LINE MAINTENANCE, and VEGETATION MANAGEMENT allocated to lines

Table 5
U.S. Army Corps of Engineers and U.S. Bureau of Reclamation Project Segmentation
 based on FY 2015 BOR/COE records

	A	B	C	D
		Generation Integration	Network	Utility Delivery
1	<u>BOR Project Transmission Facilities:</u>			
2	Columbia Basin (Grand Coulee) Project	201,851,858	88,356,443	2,003,259
3	Other Projects	<u>14,481,191</u>	<u>2,774,314</u>	<u>0</u>
4	Total BOR Projects	216,333,049	91,130,757	2,003,259
5	<u>COE Project Transmission Facilities:</u>			
6	Bonneville Project	29,797,086	2,700,095	0
7	TOTAL ALL PROJECTS:	246,130,135	93,830,852	2,003,259
8	TOTAL TRANSMISSION ALLOCATION:	95,834,111	97.91%	2.09%

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BP-18 Rate Case Initial Proposal
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BP-18 Rate Case Initial Proposal Segmentation Details

A	B	C	D	E
Generation Integration Facilities				
Transmission Lines	Owner	Investment (\$)	O&M (\$)	Multi %
1	ANDERSON RANCH-MOUNTAIN HOME NO 1	4,449,861	10,263	
2	BIG CLIFF-DETROIT PH NO 1	181,340	1,478	
3	BIG CLIFF-DETROIT PH NO 2	181,340	446	
4	BLACK CANYON-EMMETT NO 1	307,180	5,479	
5	BONNEVILLE PH 1-NORTH BONNEVILLE NO 1	85,578	1,154	
6	BONNEVILLE PH 1-NORTH BONNEVILLE NO 2	86,775	374	
7	BONNEVILLE PH 2-NORTH BONNEVILLE NO 3	98,469	276	
8	BONNEVILLE PH 2-NORTH BONNEVILLE NO 4	1,214,223	61	
9	CHANDLER TAP TO GRANDVIEW-RED MOUNTAIN NO 1	163,062	1,133	
10	CHIEF JOSEPH PH-CHIEF JOSEPH NO 1	68,924	761	
11	CHIEF JOSEPH PH-CHIEF JOSEPH NO 2	89,376	688	
12	CHIEF JOSEPH PH-CHIEF JOSEPH NO 3	82,433	199	
13	CHIEF JOSEPH PH-CHIEF JOSEPH NO 4	78,094	114	
14	CHIEF JOSEPH PH-CHIEF JOSEPH NO 5	475,202	447	
15	CHIEF JOSEPH PH-CHIEF JOSEPH NO 6	439,561	848	
16	COLUMBIA GENERATING STATION-ASHE NO 1	330,593	219	
17	COLUMBIA GENERATING STATION-ASHE NO 2	76,075	274	
18	COUGAR-THURSTON NO 1	135,511	1,654	5%
19	DETROIT PH-DETROIT NO 1	42,262	2,528	
20	DETROIT PH-DETROIT NO 2	42,262	457	
21	DETROIT-SANTIAM NO 1	1,916,208	6,088	
22	DWORSHAK PH-DWORSHAK NO 1	1,302,296	992	
23	GREEN PETER-LEBANON NO 1	357,224	4,987	35%
24	HILLS CREEK-LOOKOUT POINT NO 1	308,035	5,539	19%
25	ICE HARBOR-FRANKLIN NO 1	587,534	5,538	
26	ICE HARBOR-FRANKLIN NO 2	15,726	38	3%
27	ICE HARBOR-FRANKLIN NO 3	133,963	119	9%
28	JOHN DAY PH-JOHN DAY NO 1	485,647	491	
29	JOHN DAY PH-JOHN DAY NO 2	764,825	506	
30	JOHN DAY PH-JOHN DAY NO 3	485,647	543	
31	JOHN DAY PH-JOHN DAY NO 4	485,642	626	
32	JOHN DAY STATION SERVICE-JOHN DAY NO 1	24,389	3,497	
33	LIBBY PH-LIBBY NO 1	278,220	521	
34	LIBBY PH-LIBBY NO 2	265,855	839	
35	LITTLE GOOSE PH-LITTLE GOOSE NO 1	290,246	830	
36	LOOKOUT POINT PH-LOOKOUT POINT NO 1	10,253	257	
37	LOWER GRANITE PH-LOWER GRANITE NO 1	433,123	739	
38	LOWER MONUMENTAL PH-LOWER MONUMENTAL NO 1	236,523	4,251	
39	MCNARY PH-MCNARY 3&4 NO 3	135,173	148	
40	MCNARY PH-MCNARY NO 1	76,683	199	
41	MCNARY PH-MCNARY NO 2	74,361	(1,201)	
42	MCNARY PH-MCNARY NO 5	101,717	152	
43	MCNARY PH-MCNARY NO 6	112,595	387	
44	THE DALLES PH-BIG EDDY NO 1	118,075	2,289	
45	THE DALLES PH-BIG EDDY NO 2	121,407	175	
46	THE DALLES PH-BIG EDDY NO 3	107,356	191	
47	THE DALLES PH-BIG EDDY NO 4	107,351	219	
48	THE DALLES PH-BIG EDDY NO 5	116,296	178	
49	THE DALLES PH-BIG EDDY NO 6	117,572	118	
50	Subtotal Lines	18,198,064	68,110	
Stations	Owner	Investment (\$)	O&M (\$)	Multi %
51	ALBENI FALLS SUBSTATION	365,644	6,296	25%
52	ASHE SUBSTATION	3,800,600	41,875	8%
53	BIG EDDY SUBSTATION	4,012,332	37,377	5%
54	BONNEVILLE POWERHOUSE #1	195,150	8,252	
55	CHIEF JOSEPH POWERHOUSE	102,351	8,582	
56	CHIEF JOSEPH SUBSTATION	8,367,960	169,390	23%
57	COLUMBIA GENERATING STATION SUBSTATION (ENERGY NORTHWEST)	110,860	0	
58	COUGAR SUBSTATION	255,378	8,751	
59	DETROIT SUBSTATION	1,062,141	25,628	
60	DWORSHAK POWERHOUSE	190,858	4,737	
61	DWORSHAK SUBSTATION	4,603,565	29,487	18%
62	FOSTER SUBSTATION	42,312	6,311	
63	FRANKLIN SUBSTATION	1,857,178	38,680	12%
64	GRAND COULEE 115 KV SWITCHYARD	75,243	3,882	
65	GRAND COULEE 230 KV SWITCHYARD	1,213,134	2,417	
66	GRAND COULEE 500 KV SWITCHYARD	1,994,623	11,774	
67	GREEN PETER SUBSTATION	257,380	4,737	
68	HANFORD NO.2 CONSTRUCTION SUBSTATION	66,757	5,047	
69	HILLS CREEK SUBSTATION	374,351	9,257	
70	HUNGRY HORSE POWERHOUSE	333,182	7,232	
71	HUNGRY HORSE SWITCHYARD	89,046	0	
72	ICE HARBOR POWERHOUSE	187,633	3,863	
73	JOHN DAY POWERHOUSE	276,948	1,238	
74	JOHN DAY SUBSTATION	13,732,735	118,692	29%
75	LIBBY POWERHOUSE	112,091	2,489	
76	LIBBY SUBSTATION(BPA)	2,262,217	50,372	25%
77	LITTLE GOOSE POWERHOUSE	489,782	2,470	
78	LITTLE GOOSE SUBSTATION	16,845,346	28,108	20%

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	A	B	C	D	E
79	LOOKOUT POINT POWERHOUSE		222,084	466	
80	LOOKOUT POINT SUBSTATION		680,060	7,098	25%
81	LOST CREEK POWERHOUSE		53,123	716	
82	LOWER GRANITE POWERHOUSE		368,331	2,979	
83	LOWER GRANITE SUBSTATION		2,442,508	29,276	25%
84	LOWER MONUMENTAL POWERHOUSE		393,152	1,942	
85	LOWER MONUMENTAL SUBSTATION		2,863,442	27,670	12%
86	M McNARY POWERHOUSE		1,080,165	7,408	
87	M McNARY SUBSTATION		3,919,325	36,765	6%
88	MINIDOKA POWERHOUSE		147,898	7,052	
89	MOUNTAIN HOME SUBSTATION(BPA)		174,369	16,782	
90	NORTH BONNEVILLE SUBSTATION		4,205,346	69,386	37%
91	PALISADES POWERHOUSE		620,267	6,608	
92	ROZA POWERHOUSE		23,450	0	
93	SACAJAWEA SUBSTATION		213,469	517	1%
94	SANTIAM SUBSTATION		1,235,067	18,195	5%
95	THE DALLES POWERHOUSE		667,344	3,593	
96	WPPSS NO. 2 POWERHOUSE		463,746	12,276	
97	Subtotal Stations		83,049,940	885,672	
98	Total Generation Integration		101,248,004	953,782	

Network Facilities

	Owner	Investment (\$)	O&M (\$)	Multi %
99	ABERDEEN TAP TO SATSOP PARK-COSMOPOLIS NO 1	1,597,354	3,881	
100	ACORD TAP TO GRANDVIEW-RED MOUNTAIN NO 1	256,732	0	
101	ADAIR TAP TO SALEM-ALBANY NO 2	83,392	209	
102	ADDY-COLVILLE NO 1	57,448	1,332	
103	ADDY-CUSICK NO 1	4,921,824	10,094	
104	ALBANY-BURNT WOODS NO 1	4,251,054	7,826	
105	ALBANY-EUGENE NO 1	28,623,471	18,827	
106	ALBANY-LEBANON NO 1	1,197,260	11,157	
107	ALBENI FALLS-PINE STREET NO 1	347,358	895	
108	ALBENI FALLS-SAND CREEK NO 1	11,359,702	19,635	
109	ALCOA-FELIDA NO 1	36,090	538	
110	ALLSTON-CLATSOP NO 1	2,840,810	22,755	
111	ALLSTON-DRISCOLL NO 1	1,543,552	5,201	
112	ALLSTON-DRISCOLL NO 2	2,469,163	21,693	
113	ALVEY 500/230 KV TIE LINE NO 1	347,565	0	
114	ALVEY-FAIRVIEW NO 1	9,366,177	68,122	
115	ALVEY-LANE NO 1	2,962,626	5,492	
116	ALVEY-MARTIN CREEK NO 1	314,316	3,827	
117	ANACONDA-SILVER BOW NO 1	696,546	9,795	
118	ANTELOPE-FOSSIL (LEASED FACILITIES)	16,642,388	0	
119	ASHE TAP TO MIDWAY-HEW NO 2	83,431	1,185	
120	ASHE-HANFORD NO 1	5,509,091	3,595	
121	ASHE-MARION NO 2	84,687,857	99,715	
122	ASHE-SLATT NO 1	25,272,636	22,002	
123	ASHE-WHITE BLUFFS NO 1	1,215,881	1,636	
124	BADGER CANYON-REATA NO 1	352,148	1,407	
125	BADGER CANYON-RICHLAND NO 1	613,499	1,584	
126	BAKERS CORNER TAP TO LEXINGTON-LONGVIEW NO 1	260,047	176	
127	BALD MOUNTAIN TAP TO UNDERWOOD TAP	119,704	0	
128	BANDON SUBSTATION TRANSFORMER TIE 1	30,869	1,879	
129	BANDON-ROGUE NO 1	29,246,772	24,021	
130	BELFAIR TAP TO SHELTON-KITSAP NO 2	1,313	0	
131	BELL-ADDY NO 1	6,359,844	10,460	
132	BELL-BOUNDARY NO 1	6,672,541	24,134	
133	BELL-BOUNDARY NO 3	29,223,886	46,512	
134	BELLINGHAM-CUSTER NO 1	149,475	2,064	
135	BELL-LANCASTER NO 1	2,431,074	9,968	
136	BELL-TRENTWOOD NO 1	863,303	7,359	
137	BELL-TRENTWOOD NO 2	627,870	4,335	
138	BELL-USK NO 1	1,844,972	8,067	
139	BENTON-451B NO 1	247,991	5,436	
140	BENTON-DOE B3-S4 NO 1	155,177	1,417	
141	BENTON-FRANKLIN NO 1	7,189,560	2,972	
142	BENTON-FRANKLIN NO 2	606,950	3,160	
143	BENTON-OTHELLO NO 1	4,921,504	1,267	
144	BENTON-SOOTENEY NO 1	936,782	11,441	
145	BENTON-WHITE BLUFFS NO 1	557,626	1,996	
146	BERTELSEN-WILLOW CREEK NO 1	96,502	696	
147	BETTAS ROAD-COLUMBIA NO 1	1,900,410	2,803	
148	BIG EDDY-CHEMAWA NO 1	3,481,772	45,194	
149	BIG EDDY-CHENOWETH NO 1	885,593	5,014	
150	BIG EDDY-CHENOWETH NO 2	1,455,031	2,408	
151	BIG EDDY-DE MOSS NO 1	930,199	15,430	
152	BIG EDDY-KNIGHT NO 1	69,223,944	0	
153	BIG EDDY-MCLOUGHLIN 1&2 NO 1	4,965,983	17,276	
154	BIG EDDY-MCLOUGHLIN 1&2 NO 2	1,764,192	6,387	
155	BIG EDDY-OSTRANDER NO 1	11,925,415	20,270	
156	BIG EDDY-REDMOND NO 1	8,254,793	77,390	
157	BIG EDDY-SPRING CREEK NO 1	3,032,156	21,721	

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	A	B	C	D	E
158	BIG EDDY-THE DALLES FISHWAY HYDRO PLANT		2,955,999	0	
159	BIG EDDY-TROUTDALE NO 1		14,940,118	124,096	
160	BLUE RIVER TAP TO COUGAR-THURSTON NO 1		58,362	5,106	
161	BOARDMAN TAP TO MCNARY-JONES CANYON NO 1		61,136	333	
162	BOARDMAN-IONE NO 1		898,335	6,384	
163	BOARDMAN-TOWER ROAD NO 1		645,689	1,440	
164	BONNEVILLE PH 1-HOOD RIVER NO 1		4,224,700	26,260	
165	BONNEVILLE PH 1-NORTH CAMAS NO 1		453,835	4,378	
166	BONNEVILLE PH1-ALCOA 1&2		2,300,749	8,294	
167	BOTHELL-SAMMAMISH (PSE)		575,499	0	
168	BOTHELL-SNO-KING NO 1		415,901	18	
169	BOTHELL-SNO-KING NO 2		754,308	633	
170	BOUNDARY-NELWAY 1		401,084	2,627	
171	BOUNDARY-WANETA 1		117,328	249	
172	BOYER-TILLAMOOK NO 1		3,056,539	18,641	
173	BRASADA-HARNEY NO 1		4,326,424	46,674	
174	BRONX-SAND CREEK NO 1		2,622,656	1,124	
175	BUCKLEY-GRIZZLY NO 1		7,514,539	10,026	43%
176	BUCKLEY-MARION NO 1		21,428,265	16,320	50%
177	BURBANK TAP TO FRANKLIN-WALLA WALLA NO 1		2,665	135	
178	CALPINE-MCNARY NO 1		428,117	3,317	
179	CANAL-SECOND LIFT NO 1		25,231	283	
180	CANAL-SECOND LIFT NO 2		19,804	160	
181	CANBY TAP TO MALIN-HILLTOP NO 1		2,168,489	4,706	
182	CARDWELL-COWLITZ NO 1		4,096,304	1,979	
183	CARLTON-MCMINNVILLE NO 1		463,769	428	
184	CARLTON-SHERWOOD NO 1		2,102,679	3,216	
185	CARLTON-TILLAMOOK NO 1		8,915,226	34,656	
186	CARSON TAP TO UNDERWOOD TAP		267,329	507	
187	CASCADE LOCKS TAP TO BONNEVILLE PH 1-HOOD RIVER NO 1		108,499	692	
188	CATTLE CREEK-GOSHEN NO 1		4,437,654	0	
189	CENTRALIA TAP TO CHEHALIS-COVINGTON NO 1		1,162	300	
190	CENTRALIA-MAY STREET NO 1		167,108	671	
191	CGS BACKUP BANK TAP TO BENTON - 451B NO 1		224,495	1,733	
192	CHEHALIS-CENTRALIA NO 1		5,126,661	3,575	
193	CHEHALIS-CENTRALIA NO 2		7,559,213	6,722	
194	CHEHALIS-COVINGTON NO 1		2,235,062	161,361	
195	CHEHALIS-MAYFIELD NO 1		1,670,887	10,418	
196	CHEHALIS-OLYMPIA NO 1		2,540,993	16,781	
197	CHEHALIS-RAYMOND NO 1		15,427,705	22,618	
198	CHEMAWA-SALEM ALUMINA NO 1		325,172	2,389	
199	CHEMAWA-SALEM NO 1		4,818,149	2,373	
200	CHEMAWA-SALEM NO 2		302,519	892	
201	CHENEY TAP TO SILVER LAKE-SUNSET		391,745	7,041	
202	CHENOWETH-GOLDENDALE NO 1		2,092,909	14,733	
203	CHIEF JOSEPH-EAST OMAK NO 1		5,148,496	17,477	
204	CHIEF JOSEPH-MONROE NO 1		23,730,487	79,539	
205	CHIEF JOSEPH-SICKLER NO 1		5,357,719	36,842	
206	CHIEF JOSEPH-SNOHOMISH NO 3		8,128,843	41,568	
207	CHIEF JOSEPH-SNOHOMISH NO 4		9,240,347	38,539	
208	CHRISTMAS VALLEY TAP TO BRASADA-HARNEY NO 1		1,640	0	
209	COLUMBIA FALLS-CONKELLEY NO 1		72,714	1,567	
210	COLUMBIA FALLS-FLATHEAD NO 1		756,209	3,693	
211	COLUMBIA FALLS-KALISPELL NO 1		507,745	5,024	
212	COLUMBIA FALLS-TREGO NO 1		1,724,049	28,657	
213	COLUMBIA-ELLENSBURG NO 1		6,426,552	12,190	
214	COLUMBIA-GRAND COULEE NO 1		1,417,945	22,378	
215	COLUMBIA-GRAND COULEE NO 3		1,722,738	13,658	
216	COLUMBIA-VALHALLA NO 1		266,454	4,514	
217	COLUMBIA-VALHALLA NO 2		618,496	3,229	
218	COLVILLE-BOUNDARY NO 1		4,912,891	7,778	
219	COLVILLE-REPUBLIC NO 1		10,734,858	25,668	
220	CONNELL TAP TO BENTON-SCOOTENEY NO 1		190,017	1,951	
221	COSMOPOLIS-ABERDEEN NO 1		6,928	240	
222	COUGAR-THURSTON NO 1		2,365,686	28,877	95%
223	COVINGTON SUBSTATION TIE NO 2		17,720	306	
224	COVINGTON-BETTAS ROAD NO 1		1,716,558	20,316	
225	COVINGTON-CRESTON SCL NO 1		398,640	5,066	
226	COVINGTON-DUWAMISH NO 1		752,610	5,101	
227	COVINGTON-MAPLE VALLEY NO 2		1,129,206	13,639	
228	COVINGTON-WHITE RIVER NO 1		216,902	4,829	
229	COWLITZ TAP TO CHEHALIS-COVINGTON NO 1		736,747	6,924	
230	COYOTE SPRINGS-SLATT NO 1		2,352,112	7,298	88%
231	CRESTON-BELL NO 1		28,300,710	14,208	
232	CRESWELL TAP TO ALVEY-MARTIN CREEK NO 1		92,141	0	
233	CUSTER-INGLEDOW NO 1		7,036,672	4,256	
234	CUSTER-INGLEDOW NO 2		1,768,518	5,290	
235	CUSTER-INTALCO NO 1		497,585	6,156	
236	CUSTER-INTALCO NO 2		531,003	4,319	
237	DAVIS CREEK TAP TO MILE-HI-ALTURAS		208,342	9,225	
238	DE MOSS-FOSSIL NO 1		5,558,022	35,781	
239	DEXTER TAP TO LOOKOUT POINT-ALVEY NO 1		27,559	1,341	
240	DISCOVERY-CHENOWETH NO 1		8,490	670	
241	DORENA TAP TO ALVEY-MARTIN CREEK NO. 1		221,415	2,780	

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	A	B	C	D	E
242	DRAIN-ELKTON NO 1		843	0	
243	DRAIN-OAKLAND NO 1		843	0	
244	DRISCOLL TAP TO ALLSTON-CLATSOP NO 1		1,683,694	0	
245	DRISCOLL-ASTORIA NO 1		2,465,769	3,831	
246	DRISCOLL-NASELLE NO 1		4,352,081	26,198	
247	DRISCOLL-WAUNA NO 1		27,438	95	
248	DRUMMOND - MACKS INN NO 1		494,526	52,663	
249	DUTCH CANYON TAP TO ST JOHNS-ST HELENS NO 1		139	40	
250	DWORSHAK PH-OROFINO NO 1		205,764	1,001	
251	DWORSHAK-TAFT NO 1		22,069,794	45,626	
252	EAST ELLENSBURG TAP TO COLUMBIA-ELLENSBURG NO 1 (KITTTAS C		356,552	696	
253	EAST OMAK TAP TO GRAND COULEE-FOSTER CREEK NO 1		5,127,081	3,928	
254	EAST OMAK-OROVILLE NO 1		13,684	5,693	
255	EAST OMAK-TONASKET NO 2		13,691	3,581	
256	ECHO LAKE - MAPLE VALLEY NO 1 & 2		11,222,945	23,679	
257	ECHO LAKE-MONROE NO 1		4,938,957	17,236	
258	ELBE TAP TO ALDER-LAGRANDE NO1,2		1,898,624	3,558	
259	ELLENSBURG-MOXEE NO 1		4,540,019	20,712	
260	ELTOPIA TAP TO SMITH CANYON-REDD		415,578	1,003	
261	EUGENE-ALDERWOOD NO 1		3,965,075	14,275	
262	EUGENE-ALVEY NO 2		1,601,048	8,875	
263	EUGENE-BERTELSEN NO 1		65,866	1,708	
264	EUGENE-LANE NO 1		122,059	4,333	
265	FAIRMOUNT-PORT ANGELES NO 1		1,878,901	9,112	
266	FAIRMOUNT-PORT ANGELES NO 2		1,529,338	12,966	
267	FAIRVIEW-BANDON NO 1		1,856,435	26,156	
268	FAIRVIEW-BANDON NO 2		2,199,172	8,691	
269	FAIRVIEW-ROGUE NO 1		6,893,302	31,023	
270	FIDALGO-LOPEZ ISLAND NO 3		1,929,609	1,227	
271	FIDALGO-LOPEZ ISLAND NO 4		4,794,685	0	
272	FIDALGO-LOPEZ ISLAND NO 5		13,833,755	941	
273	FILBERT TAP TO FOREST GROVE-MCMINNVILLE NO 1		290,501	177	
274	FLATHEAD-HOT SPRINGS NO 1		3,257,393	16,812	
275	FORDS PRAIRIE TAP TO CHEHALIS-CENTRALIA NO 2		23,009	117	
276	FOREST GROVE-MCMINNVILLE NO 1		1,677,798	7,340	
277	FOREST GROVE-TILLAMOOK NO 1		8,810,255	18,498	
278	FOSTER TAP TO GREEN PETER-LEBANON NO 1		254,650	4,249	
279	FOUR LAKES TAP TO SUNSET-EAST COLFAX		272,493	5,872	
280	FRANKLIN-BADGER CANYON NO 1		1,733,993	3,861	
281	FRANKLIN-BADGER CANYON NO 2		2,204,261	9,931	
282	FRANKLIN-HEDGES NO 1		305,077	1,387	
283	FRANKLIN-RUBY STREET NO 1		1,347,949	1,371	
284	FRANKLIN-WALLA WALLA NO 1		6,191,665	9,656	
285	FROMAN TAP TO ALBANY-LEBANON NO 1		592,229	517	
286	GARRISON-ANACONDA NO 1		5,184,668	21,452	
287	GARRISON-TAFT NO 1		86,218,545	114,284	
288	GARRISON-TAFT NO 2		86,218,545	89,742	
289	GLADE TAP TO BENTON-FRANKLIN NO 2		716	158	
290	GOSHEN-DRUMMOND NO 1		16,291,283	49,587	
291	GRAND COULEE-BELL NO 3		15,988,251	56,367	
292	GRAND COULEE-BELL NO 5		4,269,084	22,217	
293	GRAND COULEE-BELL NO 6		104,017,288	18,782	
294	GRAND COULEE-CHIEF JOSEPH NO 1		1,755,430	8,942	
295	GRAND COULEE-CHIEF JOSEPH NO 2		2,149,560	12,771	
296	GRAND COULEE-CHIEF JOSEPH NO 3		4,100,432	7,548	
297	GRAND COULEE-CRESTON NO 1		1,507,998	7,385	
298	GRAND COULEE-FOSTER CREEK NO 1		1,100,132	9,826	
299	GRAND COULEE-HANFORD NO 1		12,282,324	56,795	
300	GRAND COULEE-OKANOGAN NO 2		2,703,496	44,224	
301	GRAND COULEE-SCHULTZ NO 1		31,696,784	57,926	
302	GRAND COULEE-SCHULTZ NO 2		30,625,010	13,264	
303	GRAND COULEE-WESTSIDE(AVA) NO 1		11,814,766	15,420	
304	GRANDE ROND-BOYER NO 1		1,337,310	4,860	
305	GRANDVIEW-RED MOUNTAIN NO 1		1,788,658	8,667	
306	GREEN BLUFF TAP TO BELL-TRENTWOOD NO 2		504,082	2,239	
307	GREEN PETER-LEBANON NO 1		666,893	9,310	65%
308	GRIZZLY-SUMMER LAKE NO 1		14,204,156	14,584	43%
309	GRIZZLY-SUMMER LAKE NO 1		14,696,081	14,584	43%
310	GROUSE CREEK-TECOMA (LEASED FACILITIES)		1,919,106	0	94%
311	HANFORD-WAUTOMA NO 1		3,298,689	2,362	
312	HANFORD-WAUTOMA NO 2		2,850,843	2,931	
313	HARRISBURG TAP TO ALBANY-EUGENE NO 1		15,159	175	
314	HARVALUM-BIG EDDY NO 1		8,735,766	5,590	
315	HAT ROCK TAP TO MCNARY-WALLULA		117,346	451	
316	HATTON TAP TO CONNELL TAP		1,062,007	5,310	
317	HATWAI-DWORSHAK NO 1		6,688,529	31,841	
318	HAWKINS-ALVEY NO 1		389,274	5,463	
319	HEBO TAP TO BOYER-TILLAMOOK NO 1		1,872	34	
320	HEDGES TAP TO FRANKLIN-BADGER CANYON NO 2		197,981	287	
321	HEYBURN-ADELAIDE NO 1		3,956,550	3,691	
322	HIDEAWAY TAP TO HAWKINS-ALVEY NO 1		505	172	
323	HILLS CREEK-LOOKOUT POINT NO 1		1,286,802	23,141	81%
324	HILLTOP-WARNER NO 1		4,849,992	4,925	

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	A	B	C	D	E
325	HOLCOMB TAP TO CHEHALIS-RAYMOND NO 1		343,953	445	
326	HOLCOMB-NASELLE NO 1		2,891,632	17,790	
327	HOOD RIVER-THE DALLES NO 1		3,510,869	4,161	
328	HORN BUTTE TAP TO TOWER ROAD-ALKALI NO 1		339,950	352	
329	HORSE HEAVEN-HARVALUM NO 1		773,114	9,781	
330	HORSE RANCH TAP TO MONROE-SNOHOMISH NO 1&2		297,055	394	
331	HOT SPRINGS 500-230KV TIE NO 1		37,012	286	
332	HOT SPRINGS-RATTLESNAKE NO 1		6,833,334	54,047	
333	HUNGRY HORSE-COLUMBIA FALLS NO 1		4,979,851	1,490	
334	HUNGRY HORSE-CONKELLEY NO 1		981,905	1,619	
335	ICE HARBOR-FRANKLIN NO 2		554,825	1,354	97%
336	ICE HARBOR-FRANKLIN NO 3		1,331,565	1,181	91%
337	JACKSON TAP TO CANAL-SECOND LIFT NO. 2		54,669	337	
338	JOHN DAY-BIG EDDY NO 2		5,737,346	2,757	
339	JOHN DAY-MARION NO 1		18,303,668	56,655	
340	JONES CANYON-SANTIAM NO 1		11,608,074	42,763	
341	JUNCTION CITY TAP TO ALBANY-EUGENE NO 1		2,182	184	
342	KALISPELL-KERR NO 1		1,401,924	36,821	
343	KEELER-ALLSTON NO 1		5,141,827	14,369	
344	KEELER-FOREST GROVE NO 1		4,975,001	34,155	
345	KEELER-FOREST GROVE NO 2		661,796	5,249	
346	KEELER-OREGON CITY NO 2		1,715,746	8,487	
347	KELLER TAP TO GRAND COULEE-OKANOGAN NO 2		4,911,159	17,153	
348	KENNEWICK TAP TO FRANKLIN-BADGER CANYON NO 2		38,892	975	
349	KERR SUB TIE TO US ITS MP CO.115KV		77,150	679	
350	KITSAP-BANGOR NO 1		637,130	6,092	
351	KITSAP-STATION X NO 1		262,419	169	
352	KLONDIKE SCHOOLHOUSE-JOHN DAY NO 1		9,759,776	2,476	
353	LA PINE-CHILOQUIN NO 1		3,868,562	21,523	
354	LA PINE-FORT ROCK NO 1		6,761,746	9,217	
355	LANCASTER-NOXON NO 1		5,550,404	33,365	
356	LANE-WENDSON NO 1		3,917,828	31,145	
357	LANE-WENDSON NO 2		2,305,561	42,475	
358	LANGLOIS TAP TO BANDON-ROGUE NO 1		26,655	1,656	
359	LATHAM TAP TO ALVEY-MARTIN CREEK NO 1		1,381,946	1,225	
360	LEXINGTON-DELAMETER NO 1		144,674	0	
361	LEXINGTON-LONGVIEW NO 1		1,016,084	5,338	
362	LEXINGTON-LONGVIEW NO 2		1,411,388	12,937	
363	LIBBY-BONNERS FERRY NO 1		26,631,601	107,042	
364	LIBBY-CONKELLEY NO 1		9,627,742	44,775	
365	LITTLE GOOSE-CENTRAL FERRY NO 2		11,183,170	4,042	
366	LITTLE GOOSE-LOWER GRANITE NO2		529,532	0	
367	LONGVIEW-ALLSTON NO 1		333,525	7,051	
368	LONGVIEW-ALLSTON NO 2		69,437	6,636	
369	LONGVIEW-ALLSTON NO 3		1,078,592	5,248	
370	LONGVIEW-ALLSTON NO 4		658,953	17,896	
371	LONGVIEW-BAKERS CORNER (COWLITZ PUD LINE)		32,177	52	
372	LONGVIEW-CHEHALIS NO 1 & 3		3,040,782	191,609	
373	LONGVIEW-COWLITZ NO 1		597,381	3,240	
374	LONGVIEW-WASHINGTON WAY NO 1		629,897	0	
375	LOOKOUT POINT-ALVEY NO 1		902,458	9,831	
376	LOOKOUT POINT-ALVEY NO 2		855,591	7,516	
377	LOPEZ ISLAND-DECATUR NO 1		773,159	0	
378	LOST RIVER-SPAR CANYON NO 1		5,518,064	62,598	
379	LOWER GRANITE-HATWAI NO 1		8,692,113	24,021	
380	LOWER MONUMENTAL-ASHE NO 1		11,094,886	25,486	
381	LOWER MONUMENTAL-HANFORD NO 1		6,499,644	14,807	
382	LOWER MONUMENTAL-LITTLE GOOSE NO 1		3,505,930	13,186	
383	LOWER MONUMENTAL-LITTLE GOOSE NO 2		4,054,466	5,943	
384	LOWER MONUMENTAL-MCNARY NO 1		11,703,972	26,227	
385	LYNCH CREEK TAP TO CANYON-LAGRANDE NO 1.2		1,053,417	4,214	
386	MACKS INN-MADISON NO 1		3,799,620	21,780	
387	MALIN-HILLTOP NO 1		6,640,651	40,857	
388	MAPLE VALLEY-DUWAMISH NO 1		73,304	608	
389	MAPLE VALLEY-MASSACHUSETTS NO 1		23,317	141	
390	MARION-ALVEY NO 1		4,456,110	13,812	50%
391	MARION-LANE NO 1		8,713,787	29,416	
392	MARION-SANTIAM NO 1		619,487	1,900	
393	MARTIN CREEK TAP TO ALVEY-FAIRVIEW NO 1		11,094	386	
394	MARTIN CREEK-DRAIN NO 1		1,059,059	7,619	
395	MAUPIN-ANTELOPE (LEASED FACILITIES)		894,251	0	
396	MAUPIN-TYGH VALLEY NO 1		562,433	2,183	
397	MCCULLOUGH TAP TO COWLITZ-LAGRANDE NO 1.2		459,238	4,927	
398	MCNARY-BADGER CANYON NO 1		7,775,605	6,507	
399	MCNARY-COYOTE SPRINGS NO 1		2,077,323	6,805	
400	MCNARY-FRANKLIN NO 2		1,743,743	14,970	
401	MCNARY-HORSE HEAVEN NO 1		13,284,119	5,374	
402	MCNARY-JOHN DAY NO 2		135,877,032	9,436	
403	MCNARY-JONES CANYON NO 1		1,657,299	6,147	
404	MCNARY-MORROW FLAT NO 2		777,180	2,229	
405	MCNARY-ROSS NO 1		16,999,941	56,094	
406	MCNARY-ROUNDUP NO 1		1,519,534	12,347	
407	MIDWAY-BENTON NO 1		16,592,378	4,404	
408	MIDWAY-BENTON NO 2		1,944,282	4,240	

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	A	B	C	D	E
409	MIDWAY-GRANDVIEW NO 1		1,254,400	18,747	
410	MIDWAY-MOXEE NO 1		1,385,757	16,202	
411	MIDWAY-POTHOLES NO 1		765,882	17,346	
412	MIDWAY-ROCKY FORD NO 1		1,620,448	16,867	
413	MIDWAY-VANTAGE NO 1		9,948,980	8,700	
414	MILTON TAP TO WALLA WALLA-PENDLETON NO 1		2,196,321	1,473	
415	MINIDOKA PH-UNITY NO 1		2,146,839	24,076	
416	MINIDOKA SUB TAP TO DUFN43		1,099,937	189	
417	MIST TAP TO ALLSTON-DRISCOLL NO 2		9,302	1,054	
418	MONROE-CUSTER NO 1		20,992,448	67,026	
419	MONROE-CUSTER NO 2		8,704,892	45,885	
420	MONROE-NOVELTY HILL NO.1		1,736,161	0	
421	MONROE-SNOHOMISH NO 1 & 2		1,590,652	3,739	
422	MOSSYROCK-CHEHALIS NO 1		1,091,456	9,306	
423	MOUNTAIN AVENUE TAP TO (PACIFICORP) ASHLAND-OAK KNOLL		699,915	1,565	
424	MOXEE-ROZA NO 1		23,832	8,510	
425	MT SI-TANNER NO 1		6,226,960	1,703	
426	MT. VERNON TAP TO LOOKOUT POINT-ALVEY NO 2		68,601	1,435	
427	MURRAY-CUSTER NO 1		3,461,932	18,608	
428	NAPAVINE-ALLSTON NO 1		8,567,669	10,857	
429	NASELLE-TARLETT NO 1		2,687,564	15,017	
430	NASELLE-TARLETT NO 2		3,909,281	10,338	
431	NESPELEM TAP TO GRAND COULEE-OKANOGAN		579	0	
432	NINE MILE TAP TO FRANKLIN-WALLA WALLA NO 1		40,788	120	
433	NORTH BONNEVILLE-MIDWAY NO 1		9,994,806	53,087	
434	NORTH BONNEVILLE-ROSS NO 1		2,635,550	7,558	
435	NORTH BONNEVILLE-ROSS NO 2		1,843,674	50,591	
436	NORTH BONNEVILLE-TROUTDALE NO 1		2,888,783	7,922	
437	NORTH BONNEVILLE-TROUTDALE NO 2		2,881,488	5,944	
438	NORTH CAMAS-OAK PARK NO 1		233,304	1,188	
439	NORTH CAMAS-SIFTON NO 1		357,536	1,647	
440	NORTH MOUNTAIN-SNOHOMISH NO 1		149,405	319	
441	NOXON-HOT SPRINGS NO 1		3,019,998	35,745	
442	NOXON-LIBBY NO 1		2,845,525	59,208	
443	OLYMPIA 500-230 TIE LINE 1		992,129	0	
444	OLYMPIA-GRAND COULEE NO 1		22,684,891	98,984	
445	OLYMPIA-SATSOP NO 2		3,893,068	4,103	
446	OLYMPIA-SATSOP NO 3		4,021,560	3,682	
447	OLYMPIA-SHELTON NO 1		343,650	612	
448	OLYMPIA-SHELTON NO 2		1,643,820	7,083	
449	OLYMPIA-SHELTON NO 3		3,305,936	5,133	
450	OLYMPIA-SHELTON NO 4		3,193,787	5,947	
451	OLYMPIA-SHELTON NO 5		8,848,327	8,138	
452	OLYMPIA-SOUTH ELMA NO 1		1,011,330	8,011	
453	OLYMPIA-ST CLAIR NO 1		10,968,383	9,890	
454	OREGON CITY-CANBY PGE NO 1		474,219	1,852	
455	OREGON CITY-CHEMAWA NO 1		35,890	0	
456	OREGON CITY-CHEMAWA NO 2		2,924,884	37,177	
457	OSTRANDER-MCLOUGHLIN NO 1		1,415,214	4,236	
458	OSTRANDER-PEARL NO 1		2,001,443	21,188	
459	OSTRANDER-TROUTDALE NO 1		8,468,263	20,498	
460	PALISADES-CATTLE CREEK NO 1		19,859,629	21,496	
461	PALISADES-SWAN VALLEY NO 1		2,345,291	18,281	
462	PARKER TAP TO EUGENE-ALDERWOOD NO 1		9,970	123	
463	PAUL D. JOHNSON TAP TO ROSS-VANCOUVER SHIPYARD NO. 1		180,120	0	
464	PAUL-ALLSTON NO 2		9,278,477	36,541	
465	PAUL-NAPAVINE NO 1		1,699,815	8,951	
466	PAUL-OLYMPIA NO 1		3,514,676	9,890	
467	PAUL-SATSOP NO 1		30,139,100	18,866	
468	PEARL-KEELER NO 1		2,245,471	9,893	
469	PEARL-MARION NO 1		5,744,117	75,392	
470	PEARL-SHERWOOD NO. 1 & 2		1,503,457	1,929	
471	PILOT BUTTE-LA PINE NO 1		2,403,309	19,405	
472	POMEROY TAP TO TUCANNON RIVER-NORTH LEWISTON NO 1		29,550	415	
473	PONDEROSA-PILOT BUTTE NO 1		5,666,359	17,870	
474	PORT ANGELES-SAPPHO NO 1		3,014,486	33,227	
475	POTHOLES-GRAND COULEE NO 1		1,377,363	8,368	
476	POTLATCH TAP TO SHELTON-FAIRMOUNT NO 1		6,824	230	
477	POWERLINE TAPS TO DIAMOND HILL-COBURG		81,433	0	
478	PRIEST RIVER TAP TO ALBENI FALLS-SAND CREEK NO 1		297,117	3,002	
479	PROSSER TAP TO GRANDVIEW-RED MOUNTAIN NO 1		720,575	5,808	
480	RADAR TAP (USBR) TO SCOOTENEY TAP		65,675	2,074	
481	RAINBOW VALLEY TAP TO LANE-WENDSON NO 1		439,123	2,726	
482	RALSTON TAP TO EAST COLFAX-LIND		532,216	1,654	
483	RATTLESNAKE-GARRISON NO 1		2,391,146	32,562	
484	RAVER TAP TO SCHULTZ-ECHO LAKE NO 1		922,569	1,383	
485	RAVER-COVINGTON NO 1		2,290,045	9,601	
486	RAVER-COVINGTON NO 2		1,295,592	8,501	
487	RAVER-ECHO LAKE NO 1		2,190,125	5,929	
488	RAVER-PAUL NO 1		12,744,114	44,189	
489	RAYMOND-COSMOPOLIS NO 1		10,746,393	7,081	
490	RAYMOND-HENKLE ST. NO 1		85,625	792	
491	RAYMOND-WILLAPA RIVER NO 1		419,072	6,818	

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492	RED MOUNTAIN-RICHLAND NO 1		438,307	3,532	
493	RED MOUNTAIN-WHITE BLUFFS NO 1		1,262,060	5,514	
494	REDMOND SUBSTATION 230/115KV TIE NO 1		315,227	73	
495	REDMOND-BRASADA NO 1		169,035	5,874	
496	REDMOND-PILOT BUTTE NO 1		364,704	14,659	
497	REEDSPORT-FAIRVIEW NO 1		7,979,435	35,169	
498	RESTON-FAIRVIEW NO 2		1,801,177	15,852	
499	RIVERGATE-KEELER NO 1		512,780	2,099	
500	RIVERLAND-MIDWAY NO 1		21,591	1,025	
501	ROCK CREEK-JOHN DAY NO 1		6,249,974	5,117	
502	ROCKY FORD-GRAND COULEE NO 1		1,627,129	5,070	
503	ROCKY REACH-COLUMBIA NO 1		1,231,827	7,808	
504	ROCKY REACH-MAPLE VALLEY NO 1		15,011,139	87,098	
505	ROE'S CORNER TAP TO HEYBURN-ADELAIDE NO 1		1,116,651	2,025	
506	ROGUE-GOLD BEACH NO 1		3,485,431	2,543	
507	ROGUE-GOLD BEACH NO 2		4,840,521	11,346	
508	ROSS-ALCOA NO 2 & 4 (ROSS-ALCOA NO 2 SECTION)		136,560	663	
509	ROSS-ALCOA NO 3		1,252,366	818	
510	ROSS-CARBORUNDUM NO 1		131,508	1,378	
511	ROSS-LEXINGTON NO 1		2,614,157	12,797	
512	ROSS-RIVERGATE NO 1		558,459	19,192	
513	ROSS-ST JOHNS NO 1		1,623,575	12,318	
514	ROSS-VANCOUVER SHIPYARD NO 1		404,502	1,802	
515	ROUNDUP-LAGRANDE NO 1		2,443,309	25,288	
516	SACAJAWEA TAP TO ICE HARBOR-FRANKLIN NO 2		217,457	582	
517	SACAJAWEA TAP TO LOWER MONUMENTAL-MCNARY NO 1		2,173,733	2,596	
518	SACHEEN-ALBENI FALLS NO 1		1,142,429	9,011	
519	SALEM-ALBANY NO 1		1,478,512	15,657	
520	SALEM-ALBANY NO 2		1,285,126	16,261	
521	SALEM-GRAND RONDE NO 1		5,225,130	11,315	
522	SAMMAMISH-MAPLE VALLEY NO 1		1,801,866	0	
523	SAND CREEK-BONNERS FERRY NO. 1 & 2		13,316,799	21,248	
524	SANTIAM SUBSTATION TRANSF BAY TAP TO SANTIAM-ALBANY NO 1		2,323,017	64	
525	SANTIAM-ALBANY NO 1		984,717	10,735	
526	SANTIAM-ALVEY 1 & 2		6,327,867	36,874	
527	SANTIAM-BETHEL NO 1		12,617,338	1,913	
528	SANTIAM-CHEMAWA NO 1		1,744,710	6,608	
529	SANTIAM-TOLEDO NO 1		8,340,579	40,580	
530	SATSOP PARK-COSMOPOLIS NO 1		1,210,882	6,960	
531	SATSOP-ABERDEEN NO 2		5,398,614	11,188	
532	SATSOP-ABERDEEN NO 3		2,402,175	8,893	
533	SATSOP-SHELTON NO 1		8,545,232	0	
534	SCHRAG TAP TO RUFF-WARDEN		765,888	2,282	
535	SCHULTZ-ECHO LAKE NO 1		65,603,696	24,098	
536	SCHULTZ-RAVER NO 1		29,438,856	17,542	
537	SCHULTZ-RAVER NO 3		10,273,142	18,051	
538	SCHULTZ-RAVER NO 4		12,045,265	21,611	
539	SCHULTZ-WAUTOMA NO 1		95,466,530	60,028	
540	SCOOTENEY TAP TO MIDWAY-BENTON NO 1		1,107,361	9,521	
541	SHELTON-FAIRMOUNT NO 1		4,565,620	47,344	
542	SHELTON-FAIRMOUNT NO 2		3,539,391	19,251	
543	SHELTON-FAIRMOUNT NO 3		3,179,420	10,720	
544	SHELTON-FAIRMOUNT NO 4		2,926,202	11,682	
545	SHELTON-KITSAP NO 2		9,742,838	6,346	
546	SHELTON-KITSAP NO 3		4,579,280	15,994	
547	SHELTON-KITSAP NO 4		4,172,674	8,421	
548	SHELTON-SOUTH BREMERTON NO 1		9,302,539	2,938	
549	SICKLER-SCHULTZ NO 1		11,725,105	11,356	
550	SIFTON TAP TO N. BONN-ROSS 2		222,180	36	
551	SIFTON TAP TO NORTH BONNEVILLE-ROSS NO 1		222,180	730	
552	SIFTON-FISHERS ROAD NO 1		55,704	752	
553	SIFTON-LACAMAS NO 1		354	1,160	
554	SIFTON-ROSS NO 1		357,627	1,304	
555	SILVERADO TAP TO PORT ANGELES-SAPPHO NO 1		458,627	15	
556	SLATT-BUCKLEY NO 1		21,181,550	32,402	
557	SLATT-JOHN DAY NO 1		4,797,158	23,959	93%
558	SNOHOMISH-BEVERLY PARK NO 3		351,556	807	
559	SNOHOMISH-BEVERLY PARK NO 4		386,986	1,130	
560	SNOHOMISH-BOTHELL NO 1		472,423	5,011	
561	SNOHOMISH-BOTHELL NO 2		148,752	1,051	
562	SNOHOMISH-EVERETT		427,071	2,576	
563	SNOHOMISH-MURRAY NO 1		458,122	9,972	
564	SNOHOMISH-PUD NO 9		2,362,466	929	
565	SNOHOMISH-PUD NO. 8		2,377,231	861	
566	SNO-KING TAP TO ECHO LAKE-MONROE NO 1		4,503,601	19,656	
567	SNO-KING-MAPLE VALLEY NO 1		1,845,243	687	
568	SNO-KING-MAPLE VALLEY NO. 2		651,009	182	
569	SOUTH ELMA-SATSOP PARK NO 1		209,546	6,228	
570	SOUTH FORK TAP TO FOREST GROVE-TILLAMOOK NO 1		9,989	0	
571	SOUTH TACOMA-SOUTHWEST NO 1		1,251,272	5,106	
572	SOUTH TACOMA-WHITE RIVER NO 1		339,175	6,296	
573	SPAR CANYON - ROUND VALLEY		1,264,435	8,720	
574	SPEARFISH TAP TO CHENOWETH-GOLDENDALE NO 1		113,617	2,221	
575	SPIRIT TAP TO COLVILLE-BOUNDARY NO 1		926,556	3,029	

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576	SPRING CREEK-WINE COUNTRY NO 1		3,787,668	12,386	
577	ST HELENS-ALLSTON NO 1		5,341,284	10,117	
578	ST JOHNS TAP TO KEELER-OREGONCITY NO 2		2,120	157	
579	ST JOHNS-KEELER NO 2		571,142	10,043	
580	ST JOHNS-ST HELENS NO 1		2,056,484	14,817	
581	SWAN VALLEY-GOSHEN NO 1		4,291,759	16,051	
582	SWAN VALLEY-TETON NO 1		2,778,744	17,660	
583	SWAN VALLEY-TETON NO 2		12,256,729	11,227	
584	SWIFT TAP TO ROSS-LEXINGTON NO 1		17,434	369	
585	T3BA'DAS TAP TO SHELTON-FAIRMONT NO 2 (MASON COUNTY PUD NO		423,156	0	
586	TACOMA-COVINGTON NO 2		1,907,335	6,070	
587	TACOMA-COVINGTON NO 3		1,240,294	7,645	
588	TACOMA-COVINGTON NO 4		1,240,294	6,723	
589	TACOMA-RAVER NO 1&2		6,899,623	23,131	
590	TAFT-BELL NO 1		84,342,970	49,137	
591	TAFT-HOT SPRINGS NO 1		11,863,226	76,631	
592	TAHKENITCH-GARDINER NO 1		610,180	2,949	
593	TAHKENITCH-REEDSPORT NO 1		462,340	6,285	
594	TARGHEE TAP TO SWAN VALLEY-TETON NO 1		962,039	13,713	
595	TARGHEE-DRUMMOND NO 1		114,861	59,141	
596	THATCHER JUNCTION TAP TO FOREST GROVE-TILLAMOOK NO 1		1,689	0	
597	THE DALLES-DISCOVERY NO 1		221,839	9,758	
598	THURSTON-MCKENZIE NO 1		2,435,522	2,993	
599	TILLAMOOK-TRASK RIVER NO 1		358,808	174	
600	TIMBER TAP TO FOREST GROVE-TILLAMOOK NO 1		661,575	15,656	
601	TOLEDO-WENDSON NO 1		5,931,612	41,698	
602	TOWER ROAD-ALKALI NO 1		430,310	2,462	
603	TRENTWOOD-VALLEY WAY NO 1		249,698	3,023	
604	TROJAN-ALLSTON NO 1		1,595,833	1,816	
605	TROJAN-ALLSTON NO 2		1,584,040	658	
606	TUCANNON RIVER-NORTH LEWISTON NO 1		11,818,725	15,601	
607	UNDERWOOD TAP NO 1		1,486,787	14,380	
608	UNITY-HEYBURN NO 1		561,016	4,831	
609	UNITY-WEST BURLEY NO 1		1,931,734	10,503	
610	USK-BOUNDARY NO 1		2,107,634	8,901	
611	VANTAGE-COLUMBIA NO 1		1,207,066	9,789	
612	VANTAGE-HANFORD NO 1		438,614	16,959	
613	VANTAGE-SCHULTZ NO 1		5,237,336	9,676	
614	VERA TAP TO TRENTWOOD-VALLEY WAY NO 1		225,518	2,436	
615	VICTOR TAP TO TARGHEE TAP		96,996	198	
616	WAGNER LAKE TAP TO WILBUR TAP		441,963	6,363	
617	WALLA WALLA-FREEWATER		1,331,932	1,538	
618	WALLA WALLA-PENDLETON NO 1		4,302,191	12,977	
619	WALLA WALLA-TUCANNON RIVER NO 1		20,824,016	14,999	
620	WALNUT CITY TAP TO FOREST-GROVE-MCMINNVILLE NO 1		320,653	3,382	
621	WAUNA-DRISCOLL NO 1		19,639	38	
622	WAUTOMA-OSTRANDER NO 1		36,136,282	60,993	
623	WAUTOMA-ROCK CREEK NO 1		9,564,886	26,056	
624	WENDSON-TAHKENITCH NO 1		3,811,639	16,471	
625	WENDSON-TAHKENITCH NO 2		2,984,622	13,967	
626	WEST BURLEY-HEYBURN NO. 1 (LEASED FACILITY)		21,218	5,710	
627	WESTSIDE (AVA)-BELL NO 1		1,065,091	418	
628	WHITE BLUFFS-451B NO 1		1,025,555	703	
629	WHITE BLUFFS-RICHLAND NO 1		1,698,054	4,556	
630	WILLOW CREEK-HAWKINS #1		492,033	752	
631	WINE COUNTRY-MIDWAY NO 1		2,763,766	4,612	
632	WINTHROP TAP TO TWISP-OKANOGAN		702,769	9,040	
633	WNP1-ASHE NO 2		76,075	3,945	
634	Subtotal Lines		2,757,137,654	7,062,432	

Stations	Owner	Investment (\$)	O&M (\$)	Multi %
635	ABERDEEN SUBSTATION	6,645,463	129,836	
636	ACORD SUBSTATION (BENTON REA)	22,142	0	
637	ACTON SUBSTATION	192,185	11,121	81%
638	ADAIR SUBSTATION(BPA)	814,305	23,976	
639	ADDY SUBSTATION	10,446,952	97,646	90%
640	AFTON COGENERATION POWER PLANT	8,654	0	
641	AHSAHKA SUBSTATION	22,139	933	
642	AIRWAY HEIGHTS SUBSTATION	27,894	247	
643	ALBANY SUBSTATION	12,186,131	131,445	93%
644	ALBENI FALLS SUBSTATION	1,096,932	18,887	75%
645	ALCOA SUBSTATION	9,359,588	216,730	95%
646	ALDER METERING POINT	27,765	192	
647	ALDERWOOD SUBSTATION	474,826	24,391	57%
648	ALFALFA SUBSTATION	2,739,699	25,363	
649	ALKALI SUBSTATION	61,692	288	
650	ALLSTON SUBSTATION	52,750,013	561,237	
651	ALTURAS SUBSTATION	21,364	410	
652	ALVEY SUBSTATION	40,512,940	256,711	84%
653	AMES LAKE SUBSTATION	30,075	920	
654	ANACONDA SUBSTATION	3,797,415	82,118	
655	ANGUS SUBSTATION (BENTON CO PUD)	106,469	352	
656	APPLEWAY SUBSTATION	18,816	240	
657	ARCO SUBSTATION(UTAH POWER & LIGHT)	32,413	691	

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658	ARCO SUBSTATION (BPA/LREC)		243,734	0	
659	ARIEL SUBSTATION	CWPUD	35,332	755	
660	ARM RELIFT SUBSTATION	AVA	8,900	0	
661	ARMSTRONG SUBSTATION(INLAND POWER & LIGHT)		8,286	549	
662	ARTONDALE SUBSTATION	PLC	88,106	1,857	
663	ASHE SUBSTATION		41,582,552	458,154	92%
664	ASHLAND SUBSTATION	PAC	85,217	0	
665	ATHOL SUBSTATION(KOOTENAI ELEC COOP)	KEC/NLI	47,654	1,257	
666	AUSTIN SWITCHYARD	SVEC	13,635	981	
667	BADGER CANYON SUBSTATION		2,163,129	33,204	
668	BALD MOUNTAIN SUBSTATION		4,080,029	34,305	
669	BANDON SUBSTATION		4,654,717	69,272	95%
670	BANGOR SUBSTATION	USN	67,321	706	
671	BANNACK SUBSTATION	VEC	109,110	1,086	
672	BARRETT'S SUBSTATION(VIGILANTEELECTRIC)	VEC	28,520	0	
673	BAXTER SUBSTATION (BIG BEND)	BBEC	15,519	992	
674	BEACON SUBSTATION	AVA	1,931	0	
675	BEAVER BAY SUBSTATION (COWLITZ PUD)		24,843	296	
676	BEAVER SUBSTATION (PGE)		46,143	3,376	
677	BEAVER SUBSTATION(TILLAMOOK PUD)		61,093	3,191	
678	BECK ROAD SUBSTATION		20,710	0	
679	BELFAIR SUBSTATION(MASON CO PUD NO 3)	MCPUD#3	75,741	1,274	
680	BELL SUBSTATION		75,534,730	1,166,212	
681	BELLINGHAM SUBSTATION(BPA)		12,568,944	183,435	
682	BELLINGHAM SUBSTATION(PUGET SOUND ENERGY)		2,432	557	
683	BENSON SUBSTATION		74,324	539	
684	BENTON CITY SUBSTATION(BENTON CO PUD)		15,267	226	
685	BENTON SUBSTATION		7,772,465	106,306	
686	BERRIAN SUBSTATION	BPUD	25,904	331	
687	BERRYDALE SUBSTATION (CLP)		36,801	286	
688	BERTELSEN SUBSTATION	EWEB	59,277	249	
689	BETHEL SUBSTATION	PGE	12,410	222	
690	BETTAS ROAD SUBSTATION		5,183,108	26,299	
691	BEVERLY PARK SUBSTATION	SNPUD	86,702	1,471	
692	BIG EDDY SUBSTATION		11,115,564	103,548	15%
693	BIG FORK SUBSTATION (FEC)		6,087	0	
694	BIG HORN SUBSTATION (IBERDOLA)		19,558	3,918	
695	BIG PASCO	FPUD	13,215	293	
696	BIGLOW CANYON SUBSTATION	PGE	61,573	3,840	
697	BINGEN SUBSTATION(KLICKITAT CO PUD)		32,116	427	
698	BLACKROCK SUBSTATION	BREA	10,803	1,737	
699	BLAINE SUBSTATION	PSE	128,593	681	
700	BLAKESLEE JUNCTION SWITCHING STATION		1,082,385	40	
701	BLANTON ROAD SUBSTATION	FPUD	22,796	325	
702	BOARDMAN SUBSTATION		7,391,701	65,485	
703	BONNER SUBSTATION	MEC	49,904	1,061	
704	BONNERS FERRY SUBSTATION		1,974,212	39,800	86%
705	BOOTH BEND SUBSTATION	MWL	11,060	733	
706	BOUNDARY SUBSTATION		4,651,932	102,602	
707	BOX CANYON POWERHOUSE	POPD	56,157	520	
708	BOYER SWITCHING STATION	PAC	21,947	4,049	
709	BRASADA SUBSTATION (CENTRAL ELECTRIC COOPERATIVE)		492,476	20,218	
710	BREMERTON SUBSTATION (PSE)		57,828	253	
711	BREWSTER SUBSTATION	OPUD	36,031	304	
712	BRIDGE SUBSTATION		4,925,792	51,098	
713	BRIDGEPORT BAR	DPUD	16,007	1,051	
714	BRINCKEN'S CORNER SUBSTATION		951,056	16,581	
715	BROADMOOR SUBSTATION	FPUD/BBEC	57,308	266	
716	BROADVIEW SUBSTATION	NWE	123,479	692	
717	BROOKDALE SUBSTATION(ELMHURSTMUTUAL PWR & LIGHT)		82,392	1,255	
718	BROOKDALE SUBSTATION(TACOMA PUBLIC UTILITIES)		43,391	0	
719	BUCKLEY SUBSTATION		3,636,848	37,205	36%
720	BURBANK #2 METERING POINT	GPUD	10,340	0	
721	BURBANK #3 METERING POINT	GPUD	9,282	0	
722	BURBANK SUBSTATION		426,473	9,901	69%
723	BURLEY SUBSTATION(CITY OF BURLEY)		8,862	331	
724	BURNT WOODS SUBSTATION		178,451	9,932	56%
725	CABINET GORGE SUBSTATION	AVA	51,098	547	
726	CALPINE SUBSTATION	CPN	313,432	12,859	
727	CANAL SUBSTATION		1,819,347	21,233	
728	CANBY SUBSTATION(BPA)		1,634,999	28,932	
729	CANBY SUBSTATION(PGE)		28,591	651	
730	CANBY SUBSTATION(SURPRISE VALLEY ELEC)		84,531	2,892	
731	CAPE HORN SUBSTATION	SKPUD	28,175	1,620	
732	CARDWELL SUBSTATION		2,807,915	58,273	
733	CARLIN SUBSTATION	WREC	7,918	188	
734	CARLSON SUBSTATION	VEC	29,249	0	
735	CARLTON SUBSTATION		6,294,326	89,558	
736	CARMEN POWERHOUSE	EWEB	31,287	231	
737	CARSON SUBSTATION	SKPUD	2,593	1,241	
738	CASCADE LOCKS SUBSTATION		371,131	9,912	61%
739	CASCADE STEEL SUBSTATION	MWL	87,356	2,425	
740	CATHLAMET SUBSTATION	WPUD	101,018	1,355	

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741	CEDARVILLE CITY SUBSTATION	SVEC	22,896	0
742	CEDARVILLE JUNCTION SUBSTATION		765,715	39,684
743	CENTRAL FERRY SUBSTATION		4,872,021	59,704
744	CENTRALIA MINES SUBSTATION	TACG	5,778	0
745	CENTRALIA SUBSTATION		1,680,624	33,978
746	CENTRALIA SWITCHING STATION	TACG	176,972	8,010
747	CENTRALIA THERMAL POWERHOUSE	PAC	15,230	1,203
748	CHALLIS SUBSTATION	SREC	65,343	0
749	CHEHALIS SUBSTATION		16,623,511	318,250
750	CHELATCHIE SUBSTATION	CPU	17,442	297
751	CHEMAWA SUBSTATION		16,869,564	403,181
752	CHEMICAL SUBSTATION	CWPUD	127,756	0
753	CHENEY SUBSTATION	IPL/CHNY	338,981	1,374
754	CHENOWETH SUBSTATION		7,915,524	62,520
755	CHERRY CREEK SUBSTATION	NWE	8,426	2,104
756	CHESHIRE SUBSTATION (EPUD)	EPUD	151,771	649
757	CHEVRON SUBSTATION	BPUD	34,271	612
758	CHEWELAH SUBSTATION	AVA	26,994	873
759	CHIEF JOSEPH SUBSTATION		27,199,682	550,594
760	CHRISTMAS VALLEY SUBSTATION	MSEC	36,342	2,831
761	CITY VIEW SUBSTATION	RICH	29,453	583
762	CLARK SUB	CPU	21,851	0
763	CLARKSTON SUBSTATION		532,252	18,823
764	CLATSKANIE SWITCHING STATION (CLATSKANIE PUD)	CTPUD	12,340	1,829
765	CLATSOP SUBSTATION		4,150,270	150,263
766	CLAYTON SUBSTATION	IPL	28,441	1,942
767	CLINTON SUBSTATION (MISSOULA)	MEC	5,411	932
768	COASTAL ENERGY GENERATING PLANT	COAST	10,371	2,252
769	COCHRANE SUBSTATION		72,108	81
770	COEUR D'ALENE 15TH STREET SUBSTATION	AVA	37,103	185
771	COFFIN BUTTE GENERATING PLANT	PNGC	10,273	1,459
772	COLD CREEK SUBSTATION	BPUD	41,821	1,542
773	COLLINS LAKE SUBSTATION	M3PUD	15,858	0
774	COLLINS SUBSTATION	KPUD	18,228	476
775	COLUMBIA CREST SUBSTATION	BREA	59,206	772
776	COLUMBIA FALLS SUBSTATION -- 115 YARD		3,481,997	116,584
777	COLUMBIA FALLS SUBSTATION - 230 KV YARD		14,837,779	31,625
778	COLUMBIA SUBSTATION		25,512,755	302,167
779	COLVILLE SUBSTATION		4,151,056	61,629
780	COMBINE HILLS II SUBSTATION (EURUS EGY)	EURUS	47,138	2,917
781	CONDON SUBSTATION	CBEC	41,086	616
782	CONDON WIND SUBSTATION(SEAWEST)	SEAWEST	72,793	10,871
783	CONKELLEY SUBSTATION		9,172,365	140,206
784	CONNELL SUBSTATION	BPA/FPUD	746,801	7,743
785	CORVALLIS SUBSTATION	RCEC	14,452	534
786	COSMOPOLIS SUBSTATION		1,453,135	53,859
787	COTTONWOOD METERING POINT(BPA)	AVA	54,681	459
788	COVINGTON SUBSTATION		37,246,426	1,053,060
789	COW CREEK SUBSTATION (UIUC)	UIUC	14,830	491
790	COWLITZ FALLS POWERHOUSE	LPUD	72,665	2,178
791	COWLITZ SUBSTATION(TACOMA PUBLIC UTILITIES)	TPWR	368,188	1,517
792	COWLITZ SUBSTATION(BPA)		3,142,448	37,635
793	COYOTE SPRINGS SUBSTATION	PGE	4,532,741	13,194
794	CRAIGMONT SUBSTATION	AVA	56,390	529
795	CRESTON SUBSTATION(BPA)	BPA/IPL	1,579,537	32,769
796	CRESWELL SUBSTATION	EPUD	31,204	891
797	CURLEW SUBSTATION	RREC	10,717	564
798	CUSICK SUBSTATION		1,919,066	27,105
799	CUSTER SUBSTATION		39,948,334	855,586
800	DARBY SUBSTATION	RCEC	23,882	1,154
801	DAVIS CREEK SUBSTATION		73,632	1,294
802	DAY MT. SPOKANE	IPL	17,108	544
803	DAYTON SUBSTATION(BPA & COLUMBIA REA)	CREA	103,536	2,690
804	DAYTON SUBSTATION(MASON COUNTY)	M3PUD	42,516	709
805	DE MOSS SUBSTATION(BPA)		12,541,314	58,268
806	DECLO METERING POINT	SSE	43,494	799
807	DEER PARK SUBSTATION	BPA/IPL/AVA	461,637	12,092
808	DELENA SUBSTATION	CTPUD	60,981	1,627
809	DELIGHT SUBSTATION	BBEC	34,597	489
810	DELL SUBSTATION	VEC	30,156	1,262
811	DEXTER SUBSTATION (LANE ELECTRIC)	LEC	85,315	394
812	DILLARD SUBSTATION	EWEB	17,335	313
813	DILLON SUBSTATION	VEC	28,985	731
814	DILLON-SALMON SUBSTATION	NWE	110,343	607
815	DISCOVERY BAY SUBSTATION	JPUD	54,874	329
816	DISCOVERY SUBSTATION (N. WASCO PUD)	NWPUD	213,795	5,884
817	DIVIDE SUBSTATION	VEC	22,748	254
818	DIXIE SUBSTATION		405,202	9,563
819	DIXON SUBSTATION		3,481,862	37,670
820	DOE 251W SUBSTATION	DOE	12,982	354
821	DOE 451A SUBSTATION	DOE	11,839	142
822	DOE 451B SUBSTATION	DOE	21,042	3,520
823	DONALD NYS SUBSTATION	CRPUD	9,822	0
824	DOOLEY SUBSTATION (WINDY POINT)	WPP	164,759	5,745

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825	DORENA SUBSTATION		257,465	13,079	
826	DOVER SWITCHING STATION	NLI	18,324	199	
827	DOWER SUBSTATION	KEC	1,570	184	
828	DRAIN SUBSTATION		2,788,105	35,684	91%
829	DREWSEY METERING POINT (IPCO)	IPC	6,039	940	
830	DRISCOLL SUBSTATION		6,752,655	74,837	
831	DROP PLANT PUMPING PLANT	YPWR	8,779	0	
832	DRUMMOND MONTANA SUBSTATION	NWE	4,352	0	
833	DRUMMOND SUBSTATION	BPA/FREC	11,142,165	188,215	
834	DUCKABUSH SUBSTATION	MIPUD	37,560	2,075	
835	DUTCH CANYON SUBSTATION	CRPUD	15,947	0	
836	DWORSHAK SUBSTATION		20,751,338	132,918	82%
837	EAGLE LAKE SUBSTATION		203,425	6,937	45%
838	EAGLE POINT METERING POINT	MWL	23,907	176	
839	EAST BENCH SUBSTATION	VEC	29,447	876	
840	EAST COLFAX SUBSTATION	AVA	91,332	649	
841	EAST FOSSIL SUBSTATION	CBEC	50,617	177	
842	EAST GREENACRES #1 METERING POINT	KEC	9,045	0	
843	EAST GREENACRES #2 METERING POINT	AVA	7,420	0	
844	EAST GREENACRES #3 METERING POINT	AVA	8,778	0	
845	EAST HILLS SUBSTATION	BPA/SSE	640,401	11,061	
846	EAST OMAK SUBSTATION		5,755,109	80,220	
847	EAST PINE SUBSTATION	SCL	19,963	0	
848	EAST SUBSTATION	TPUD	4,388	0	
849	ECHO LAKE SUBSTATION		34,227,323	121,148	
850	EGYPT SUBSTATION	IPL	29,691	131	
851	EIGHT MILE CREEK METERING POINT	WREC	229,192	0	
852	ELBE SUBSTATION	LPUD	27,620	1,594	
853	ELLENSBURG SUBSTATION	BPA/ELN	1,339,212	104,496	
854	ELM STREET SUBSTATION	OTEC	14,496	1,461	
855	ELMA SUBSTATION	BPA/GHPUD	686,902	19,065	
856	ELMAR SUBSTATION	MEC	33,016	438	
857	ELMO SUBSTATION(MVP)	MVP	48,586	361	
858	ELTOPIA BRANCH CANAL POWERHOUSE	SCBID	14,336	231	
859	ELTOPIA SUBSTATION (BIG BEND)	BBEC	24,590	316	
860	ELY SUBSTATION	BPUD	35,905	431	
861	EMERGENCY OPERATING FACILITY	ENW	44,194	2,837	
862	ENDERSBY SUBSTATION	WEC	9,311	1,292	
863	ENERGIZER SUBSTATION (KPUD)	KPUD	147,359	7,087	
864	ENTERPRISE SUBSTATION	WHPUD	21,193	591	
865	EUGENE SUBSTATION		6,131,429	84,614	
866	EUREKA SUBSTATION (LINCOLN ELEC)	LINC	37,497	1,268	
867	EVERGREEN PUMP STATION	QCBID	24,923	692	
868	EWAN SUBSTATION	AVA	8,238	20	
869	FAIRCHILD AIR FORCE BASE NORTH SUBSTATION	USAF	25,055	623	
870	FAIRCHILD AIR FORCE BASE SOUTH SUBSTATION	USAF	34,734	1,036	
871	FAIRFIELD SUBSTATION	IPC	22,634	0	
872	FAIRMOUNT SUBSTATION		16,379,883	128,269	
873	FAIRVIEW SUBSTATION(BPA)		11,974,355	217,640	
874	FEEDVILLE SUBSTATION (UEC)	UEC	6,548	967	
875	FERN HILL SUBSTATION	PAC	13,666	432	
876	FERN RIDGE SUBSTATION (LANE ELECTRIC)	LEC	16,530	670	
877	FERNDALE SUBSTATION	WHPUD	17,315	363	
878	FIDALGO SUBSTATION		4,976,266	61,605	
879	FILBERT SUBSTATION(CITY OF FOREST GROVE)	FORG	15,622	650	
880	FINLEY SUBSTATION (BENTON COUNTY PUD)	BPUD	11,011	1,366	
881	FIRST LIFT SUBSTATION		28,131	0	
882	FIRST STREET SUBSTATION	RICH	69,550	662	
883	FISHERS ROAD SUBSTATION	CPU	6,861	0	
884	FLATHEAD SUBSTATION(BPA & FLATHEAD ELEC)	BPA/FEC	5,621,981	48,524	
885	FLORENCE SUBSTATION (CENTRAL LINCLON PUD)	CLPUD	17,351	506	
886	FORDS PRAIRIE SUBSTATION(CITYOF CENTRALIA)	CCL	38,555	951	
887	FORDS PRAIRIE SUBSTATION(LEWIS CO PUD)	LPUD	25,993	1,207	
888	FOREST GROVE SUBSTATION	BPA/FORG	5,315,015	55,295	
889	FORT ROAD METERING POINT	YPWR	23,768	486	
890	FORT ROCK SUBSTATION (MIDSTATE ELECTRIC COOP)	MEC	119,300	0	
891	FOSSIL SUBSTATION		5,987,277	47,267	
892	FOSTER CREEK SUBSTATION(NESPELEM VALLEY ELEC)	NVEC	56,093	3,045	
893	FOSTER CREEK SUBSTATIONDOUGLAS CO PUD)	DOPD	33,214	0	
894	FOSTER WELLS SUBSTATION	FPUD	87,711	384	
895	FOUR LAKES SUBSTATION	IPL/CHNY	67,720	3,482	
896	FOURTH AND HERALD SUBSTATION	AVA	18,003	0	
897	FRANKLIN SUBSTATION	BPA/FPUD	14,093,574	293,530	88%
898	FRANZ HOLMES SUBSTATION	ELM	152,954	569	
899	FREEWATER SUBSTATION(BPA)	BPA/CMF	1,878,452	11,312	
900	FRENCHMAN HILLS SUBSTATION	USBR	14,788	328	
901	FRENCHMAN SPRINGS SUBSTATION	USBR	19,285	719	
902	FRENCHTOWN SUBSTATION		24,770	604	
903	FROMAN SUBSTATION	CPI	10,025	440	
904	GARDINER SUBSTATION		605,747	23,920	66%
905	GARIBALDI SUBSTATION(TILLAMOOK PUD)	TPUD	350,237	2,255	
906	GARRISON SUBSTATION		60,194,821	390,436	69%
907	GATES OF THE MOUNTAINS METERING POINT	NWE	7,949	1,144	
908	GEISEL MONUMENT SUBSTATION	CCEC	37,685	187	

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	A	B	C	D	E
909	GEM STATE HYDRO PLANT	IFP	10,421	53	
910	GEORGIA PACIFIC SUBSTATION(PSE)	PSE	69,838	64	
911	GIG HARBOR SUBSTATION	TPWR	59,167	1,099	
912	GILMER SUBSTATION(KLICKITAT CO PUD)	KPUD	22,504	629	
913	GLADE SUBSTATION		192,511	3,734	35%
914	GLASGOW SUBSTATION	CLPUD	30,939	429	
915	GLENOMA SUBSTATION	LPUD	52,158	789	
916	GLENWOOD SUBSTATION	KPUD	40,100	811	
917	GOBLE SUBSTATION	CRPUD	29,349	445	
918	GOLD BAR SUBSTATION	SNOPUD	20,053	381	
919	GOLD BEACH SUBSTATION		129,528	6,508	
920	GOLDENDALE SUBSTATION(BPA)		1,280,325	25,103	
921	GOOSE LAKE SUBSTATION(NESPELEM VALLEY ELEC)	NVEC	6,433	918	
922	GORMLEY SUBSTATION (MCMINNVILLE W & L)	MWL	47,378	146	
923	GOSHEN SUBSTATION(PACIFICORP)	PAC	2,432,709	0	
924	GOSHEN SUBSTATION(UTAH POWER & LIGHT)	PAC	6,592,884	108,767	
925	GRAND COULEE #2 METERING POINT	GPUD	10,705	1,217	
926	GRAND COULEE SUBSTATION	GPUD	2,047,373	2,778	
927	GRAND RONDE SUBSTATION	PGE	31,005	352	
928	GRANDVIEW SUBSTATION	BPA/BREA	3,510,890	68,719	
929	GRANGEVILLE SUBSTATION	AVA	1,434	0	
930	GRANTSDALE SUBSTATION	RCEC	5,648	507	
931	GRAYS HARBOR FACILITY NO 1 (GRAYS HARBOR ENE)	GHE	11,252	4,716	
932	GRAYS RIVER SUBSTATION	WPUD	61,344	2,740	
933	GREEN VALLEY SUBSTATION		2,734,025	16,587	
934	GREENTIMBER SUBSTATION	FREC	37,716	1,182	
935	GROUSE CREEK METERING POINT	RREC	13,002	357	
936	GUM STREET SUBSTATION	BPUD	20,554	259	
937	H2F SUBSTATION	BPUD	23,867	473	
938	HAAKENSON SUBSTATION	ELM	106,056	1,266	
939	HAGEN SUBSTATION	PPUD	48,927	648	
940	HALF MOON SUBSTATION(INLAND POWER & LIGHT)	IPL	20,346	140	
941	HAMPTON SUBSTATION	CEC	73,268	885	
942	HANFORD SUBSTATION		26,257,572	206,194	
943	HANNA SUBSTATION(DOUGLAS CO PUD)	GNC	5,942	0	
944	HAPPY VALLEY SUBSTATION		3,835,998	34,402	
945	HARNEY SUBSTATION(BPA)		7,682,298	70,599	
946	HARRISBURG SUBSTATION		4,893,940	19,026	96%
947	HARVALUM SUBSTATION		3,172,717	63,441	
948	HARVEST WIND SUBSTATION (KPUD)	KPUD	121,495	6,018	
949	HARVEY SUBSTATION	NWA	0	0	
950	HASKILL SUBSTATION	FEC	35,947	4,380	
951	HASKINS METERING POINT	WOEC	7,710	674	
952	HAT ROCK SUBSTATION		5,040,308	29,578	
953	HATTON SUBSTATION (BIG BEND)	BBEC	21,007	545	
954	HATWAI SUBSTATION		15,105,342	230,920	
955	HAUSER SUBSTATION(BPA)		249,666	11,075	
956	HAUSER SUBSTATION(CENTRAL LINCOLN PUD)	CLPUD	27,964	23	
957	HAWK ROAD METERING POINT	YPWR	17,340	3,434	
958	HAWKINS SUBSTATION	EWEB	10,130	113	
959	HAY CANYON SUBSTATION (IBERDOLA)	IBER	130,483	3,700	
960	HAY MILL SUBSTATION (UNITED ELEC & CITY OF RUPERT)	UEC/RUPT	269,765	17,021	
961	HAYDEN SUBSTATION	KEC	35,420	82	
962	HAYFORD SUBSTATION(INLAND POWER & LIGHT)	IPL	14,000	168	
963	HEBO SUBSTATION	BPA/TPUD	389,712	15,112	
964	HEDGES SUBSTATION(BENTON CO PUD)	BPUD	14,917	535	
965	HEGLAR SUBSTATION	RREC	34,766	2,045	
966	HEIMARK METERING POINT	APUD	37,535	0	
967	HEPPNER GENERATING STATION	MORR	27,447	0	
968	HERMISTON BUTTE (UEC)	UEC	20,111	545	
969	HEYBURN SUBSTATION		10,539,808	75,807	
970	HIDEAWAY SUBSTATION (LANE ELECTRIC)	LEC	10,025	362	
971	HIGHLANDS SUBSTATION(BENTON CO PUD)	BPUD	13,750	467	
972	HILLTOP SUBSTATION	BPA/NEV	1,907,532	32,858	
973	HILTON LAKE SUBSTATION	SNOPUD	28,003	443	
974	HINES SUBSTATION	OTEC	32,533	493	
975	HOLCOMB SUBSTATION		653,608	29,694	
976	HOOD RIVER SUBSTATION		1,069,316	34,798	81%
977	HOODOO SUBSTATION	IPL	9,803	186	
978	HOOPER SPRINGS SUBSTATION		5,610,634	0	
979	HOPE VALLEY METERING POINT	QCBID	13,403	264	
980	HOPKINS RIDGE SUBSTATION	PSE	30,813	1,552	
981	HORN BUTTE SUBSTATION (INVENERGY WIND)	INVER	30,813	5,724	
982	HORN RAPIDS SUBSTATION	BREA	30,595	1,015	
983	HORSE HEAVEN SUBSTATION		2,982,891	39,489	
984	HOT SPRINGS SUBSTATION		18,776,186	488,148	
985	HUGHES SUBSTATION(SALEM ELEC COOP)	SEC	40,198	1,338	
986	IDAHO FALLS SUBSTATION	PAC	2,983	2,197	
987	IDAHOME SUBSTATION		471,469	17,677	
988	IMRIE SUBSTATION (PACW)	PAC	141,675	6,487	
989	INTALCO SUBSTATION		11,558,097	230,106	64%
990	IONE SUBSTATION		792,607	24,199	86%
991	IRBY SUBSTATION	BPA/IPL	337,734	7,961	
992	IRRIGRO SUBSTATION	BPUD	4,436	0	

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993	JENKINS SUBSTATION	KTPUD	183,601	2,547
994	JERICO PUMPING PLANT	GPUD	36,866	696
995	JIGGS-LEE METERING POINT	IPC	22,773	0
996	JIM CREEK SUBSTATION	USN	20,733	665
997	JOHN CURTIS SUBSTATION	PLW	76,330	727
998	JOHN DAY CONSTRUCTION SUBSTATION	KPUD	38,025	730
999	JOHN DAY SUBSTATION		20,473,133	176,950
1000	JOHN DAY SUBSTATION - 230 YARD		28,938,178	51,430
1001	JOHNS PRAIRIE SUBSTATION	M3PUD	36,662	363
1002	JONES CANYON SUBSTATION		16,712,468	44,410
1003	JONES SUBSTATION	VEC	5,407	41
1004	JULIA STREET (KOOTENAI ELECTRIC COOPERATVIE)		26,666	0
1005	JULIAETTA SUBSTATION	AVA	11,005	260
1006	JUNCTION CITY SUBSTATION(BLACHLY-LANE CO ELEC COOP)	BLEC	5,106	271
1007	JUNIPER CANYON I SUBSTATION (IR INC.)	IBER	9,144	5,339
1008	KAH-NEE-TA SUBSTATION	WEC	53,561	767
1009	KALISPELL SUBSTATION(BPA)		13,002,203	94,888
1010	KAMIAH SUBSTATION	AVA	19,894	658
1011	KEELER SUBSTATION		76,092,091	1,134,352
1012	KELLER SUBSTATION		464,356	11,325
1013	KELTON SUBSTATION	RREC	21,825	1,407
1014	KENNEDY SUBSTATION	BREA	34,007	1,703
1015	KENNEWICK SUBSTATION(BENTON CO PUD)	BPUD	23,070	219
1016	KERR SUBSTATION(BPA)		1,485,650	21,531
1017	KETTLE FALLS SUBSTATION	AVA	5,249	465
1018	KITSAP SUBSTATION		14,186,905	149,990
1019	KLONDIKE SCHOOLHOUSE SUBSTATION (IBERDOLA)	IBER	29,337	7,121
1020	KLONDIKE SCHOOLHOUSE SUBSTATION(BPA)		382,745	0
1021	KLONDIKE SUBSTATION	WEC	99,532	1,689
1022	KNAPPA SVENSEN SUBSTATION	PAC	2,188	373
1023	KNIGHTS BRIDGE (CANBY UTILITY BOARD)		32,888	0
1024	KOOSKIA SUBSTATION	AVA	21,459	245
1025	LA GRANDE SUBSTATION		7,679,596	60,934
1026	LA PINE SUBSTATION		20,595,504	88,738
1027	LAGOON SUBSTATION	CMF	22,101	232
1028	LAGRANDE POWERHOUSE	TPWR	18,997	0
1029	LAKE BAY SUBSTATION	PLC	7,193	765
1030	LAKE GROVE SUBSTATION	LLP	62,954	713
1031	LAKE LENORE #1 IRRIGATION PUMP	QCBID	12,122	406
1032	LAKE LENORE #2 IRRIGATION PUMP	QCBID	12,736	391
1033	LAKESIDE SUBSTATION (CLP)	CLPUD	21,534	946
1034	LAKESIDE SUBSTATION (FEC)	FEC	22,744	397
1035	LAKEVIEW SUBSTATION	SVEC	71,364	375
1036	LANCASTER SUBSTATION(BPA)		538,048	56,444
1037	LANE SUBSTATION		16,197,475	202,137
1038	LANGLOIS SUBSTATION		897,249	12,217
1039	LARENE SUBSTATION (INLAND)	IPL	440	153
1040	LATERAL 4 METERING POINT	YPWR	42,935	1,663
1041	LATHAM SUBSTATION	EPUD	89,194	799
1042	LEBANON SUBSTATION		3,701,597	27,382
1043	LEVEY SUBSTATION		1,020,008	19,631
1044	LEWIS & CLARK SUBSTATION	PAC	7,015	0
1045	LEXINGTON SUBSTATION		4,673,898	103,410
1046	LIBBY SUBSTATION(BPA)		6,657,710	148,245
1047	LIBBY SUBSTATION(BPA/FLATHEADELEC)	BPA/FEC	674,984	9,769
1048	LINDEN SUBSTATION (KPUD)	KPUD	10,273	0
1049	LION MOUNTAIN SUBSTATION	FEC	47,515	823
1050	LITTLE FALLS GENERATING PLANT	AVA	3,547	0
1051	LITTLE GOOSE SUBSTATION		67,381,383	112,433
1052	LOCUST SUBSTATION	MEWC	32,812	727
1053	LODHOLM SUBSTATION	PLC	59,434	721
1054	LOLO SUBSTATION (NWE)	NWE	16,060	358
1055	LONE PINE SUBSTATION(PACIFICORP)	NVEC	26,796	0
1056	LONGVIEW SUBSTATION		36,969,319	261,642
1057	LOOKINGGLASS SUBSTATION(BPA)		329,093	3,396
1058	LOOKOUT POINT SUBSTATION		2,040,181	21,294
1059	LOPEZ ISLAND SUBSTATION(BPA)		6,976,971	80,768
1060	LOST RIVER SUBSTATION	BPA/LREC	1,851,841	30,416
1061	LOW GAP METERING POINT	QCBID	11,133	204
1062	LOWER BULB GENERATING PLANT	IFP	16,027	0
1063	LOWER GRANITE SUBSTATION		7,327,523	87,829
1064	LOWER MONUMENTAL SUBSTATION		20,245,805	195,637
1065	LOWER WOODCHUCK SUBSTATION	RCEC	34,740	457
1066	LUHR BEACH SUBSTATION	PSE	58,733	158
1067	LUMP GULCH SUBSTATION	NWE	20,312	895
1068	LYLE SUBSTATION	KPUD	48,978	596
1069	LYN PUMPS PUMPING PLANT	USBR	28,149	0
1070	LYNCH CREEK SUBSTATION		726,128	12,779
1071	MABTON SUBSTATION		1,352,795	10,248
1072	MACKAY SUBSTATION	LREC	198,886	2,920
1073	MACKS INN SUBSTATION	FREC	429,291	43,427
1074	MADISON SUBSTATION		1,559,262	23,987
1075	MAPLE VALLEY SUBSTATION		71,228,668	527,929
1076	MAPLETON SUBSTATION		716,261	41,259

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1077	MARENGO SUBSTATION	AVA	28,220	651	
1078	MARION SUBSTATION		37,100,287	361,874	92%
1079	MARTIN CREEK SUBSTATION		4,342,343	34,309	
1080	MASHEL PRAIRIE SUBSTATION (OHOP)	OHOP	131,931	1,757	
1081	MASON SUBSTATION(MASON CO PUDNO 3)	M3PUD	56,492	517	
1082	MAUPIN SUBSTATION		1,872,509	47,636	
1083	MAYFIELD POWERHOUSE	TPWR	3,167	0	
1084	MAYFIELD SWITCHYARD	TPWR	202,128	1,618	
1085	MAYVIEW SUBSTATION (INLAND POWER)	IPL	0	0	
1086	MCCULLOUGH SUBSTATION	ELM	29,139	476	
1087	MCKENZIE SUBSTATION(EWEB)	EWEB	47,720	1,061	
1088	MCLOUGHLIN SUBSTATION	PGE	316,731	20,090	
1089	MCMINNVILLE SUBSTATION	BPA/MWL	1,993,731	66,900	
1090	MCNARY SUBSTATION		58,762,250	551,213	94%
1091	MESA SUBSTATION	BBEC	91,656	981	
1092	METALINE FALLS SUBSTATION(PEND OREILLE CO PUD)	POPD	14,425	329	
1093	MIDWAY SUBSTATION(BPA)		17,322,195	266,644	
1094	MILAN SUBSTATION	AVA	27,672	657	
1095	MILL PLAIN SUBSTATION	CPU	3,331	0	
1096	MILL PRIMARY SUBSTATION	PTPC	44,409	0	
1097	MILLER SUBSTATION(LAKEVIEW LIGHT & PWR)	LLP	123,121	1,106	
1098	MILTON SUBSTATION(CITY OF MILTON FREEWATER)	CMF	141,908	7,679	
1099	MINICO SUBSTATION (UNITED ELECTRIC)	UEC	12,493	1,422	
1100	MINIDOKA SUBSTATION		139,342	3,218	36%
1101	MINT FARM SWITCHING STATION	MFEC	12,566	5,583	
1102	MISSION SUBSTATION	UEC	4,255	525	
1103	MIST SUBSTATION	WOEC	50,488	3,176	
1104	MOAB SUBSTATION	IPL	27,824	1,045	
1105	MOHLER SUBSTATION(TILLAMOOK PUD)	TPUD	29,278	2,857	
1106	MONMOUTH SUBSTATION		721,157	16,626	56%
1107	MONROE SUBSTATION		61,809,242	727,767	
1108	MORRISON SUBSTATION	CCEC	17,456	0	
1109	MOSSYROCK SUBSTATION	LPUD	17,122	0	
1110	MOSSYROCK SWITCHYARD	TPWR	47,727	1,432	
1111	MOUNTAIN AVENUE SUBSTATION		1,641,497	15,080	78%
1112	MOUNTAIN HOME SUBSTATION(IDAHO POWER)	IPC	67,338	1,451	
1113	MOUNTAIN VIEW SUBSTATION(MASON CO PUD NO 3)	M3PUD	29,452	232	
1114	MOXEE SUBSTATION		2,503,226	41,279	
1115	MOYIE DAM	BFY	32,179	587	
1116	MT. HALL SUBSTATION	NLI	15,208	370	
1117	MT. VERNON SUBSTATION(SPRINGFIELD UTILITY BOARD)	SUB	7,307	112	
1118	MURRAY SUBSTATION		9,700,371	220,392	
1119	NAPAVINE SUBSTATION		1,543,246	40,113	
1120	NARROWS SUBSTATION	PLC	96,416	3,215	
1121	NASELLE SUBSTATION		4,385,493	75,426	
1122	NECANICUM SUBSTATION		93,208	4,225	70%
1123	NEFF ROAD METERING POINT	CEC	46,637	3,669	
1124	NEWCOMB SUBSTATION(SOLD)	SSE	28,362	995	
1125	NEWPORT SUBSTATION(INLAND POWER)	IPL	262,565	1,607	
1126	NINE CANYON SUBSTATION (BENTON PUD)	BPUD	87,961	9,324	
1127	NINE MILE SUBSTATION (FPLE)	FPLE	42,950	7,366	
1128	NORTH BENCH SUBSTATION		512,217	5,716	97%
1129	NORTH BEND SUBSTATION	PSE	39,582	290	
1130	NORTH BONNEVILLE SUBSTATION	BPA/SKPUD	7,238,435	119,431	63%
1131	NORTH BROOKINGS SUBSTATION	CCEC	439,706	7,811	
1132	NORTH BUTTE SUBSTATION		121,781	4,330	65%
1133	NORTH LEWISTON SUBSTATION	AVA	20,900	185	
1134	NORTH PASCO SUBSTATION	FPUD	59,484	579	
1135	NORTH PORT SUBSTATION (CCL)	CCL	25,067	168	
1136	NORTH POWDER SUBSTATION	IPC	4,392	0	
1137	NOTI CREEK SUBSTATION	EPUD	114,195	2,601	
1138	NOXON CONSTRUCTION SUBSTATION	AVA	207,354	1,272	
1139	NOXON DAM POWERHOUSE	AVA	50,959	0	
1140	NOXON SWITCHYARD	AVA	3,248	1,112	
1141	OAK KNOLL SUBSTATION	PAC	17,403	667	
1142	OAKRIDGE SUBSTATION (LANE ELECTRIC)	LEC	156,911	2,425	
1143	ODESSA SUBSTATION		818,532	15,965	
1144	O'GARA SUBSTATION	AVA	1,305	335	
1145	OHOP SUBSTATION	TPWR	61,175	2,665	
1146	OKANOGAN SUBSTATION	OPUD	10,025	1,655	
1147	OLD LOWER GENERATING PLANT	IFP	7,514	0	
1148	OLINDA SUBSTATION	WAPA	357,021	140	
1149	OLNEY METERING POINT	WOEC	35,014	259	
1150	OLYMPIA SUBSTATION		37,974,898	662,205	
1151	OLYMPIC PIPELINE	SNOPUD	12,580	402	
1152	OMAK SUBSTATION	OPUD	13,613	459	
1153	OPHIR SUBSTATION	OPUD	11,385	0	
1154	OPPORTUNITY SUBSTATION	AVA	15,961	276	
1155	OREGON CITY SUBSTATION		6,641,645	131,172	
1156	OREMET SUBSTATION	PAC	31,352	0	
1157	OSTRANDER SUBSTATION		55,265,045	508,868	
1158	OTHELLO SUBSTATION	AVA	69,527	0	
1159	OUTBACK SOLAR GENERATING PLANT (OUTBACK SOLAR, LLC)	OSLLC	14,510	705	
1160	OVANDO SUBSTATION		2,079,001	27,477	

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A	B	C	D	E	
1161	OXBOW SUBSTATION(PACIFIC CO PUD)	PPUD	14,180	675	
1162	PACIFIC SUBSTATION	UEC	39,385	930	
1163	PACKWOOD POWERHOUSE	ENW	21,911	1,132	
1164	PACKWOOD SUBSTATION	LPUD	59,119	0	
1165	PAISLEY GEOTHERMAL PLANT METERING POINT		36,046	103	
1166	PARKDALE SUBSTATION		1,071,795	18,296	87%
1167	PARKLAND SUBSTATION	PLW	20,439	0	
1168	PASCO SUBSTATION	PAC	97,900	655	
1169	PATEROS SUBSTATION	OPUD	11,455	0	
1170	PATERSON SUBSTATION	BPUD	19,705	376	
1171	PATTON VALLEY METERING POINT	WOEC	17,235	306	
1172	PATU SUBSTATION	PATU	6,177	78	
1173	PAUL SUBSTATION		16,169,542	233,243	
1174	PE ELL SUBSTATIONLEWIS CO PUD)	LPUD	16,913	996	
1175	PEARL SUBSTATION		50,012,598	295,535	
1176	PEBBLE SPRINGS SUBSTATION (IBERDOLA)	IBER	193,916	0	
1177	PENDERGAST SUBSTATION	VEC	5,409	36	
1178	PENDLETON SUBSTATION	BPA/UEC	43,283	18,109	
1179	PHILLIPS SUBSTATION	BPUD	51,248	701	
1180	PIHL ROAD METERING POINT	WOEC	12,687	148	
1181	PIKE METERING POINT	WOEC	46,084	942	
1182	PILOT ROCK SUBSTATION	PAC	166,943	414	
1183	PINE HOLLOW SUBSTATION	WEC	9,950	1,803	
1184	PIONEER SUBSTATION	M3PUD	26,068	0	
1185	PLEASANT HILL SUBSTATION	EPUD	25,938	141	
1186	PLEASANT VIEW SUBSTATION	AVA	6,044	591	
1187	PLUMMER SUBSTATION	AVA	55,840	982	
1188	PLYMOUTH SUBSTATION	BREA	41,633	469	
1189	POINT OF ROCKS SUBSTATION	VEC	47,044	556	
1190	POMEROY SUBSTATION(BPA)	BPA/IPL	85,125	17,176	
1191	PONDEROSA SUBSTATION(BPA)		54,602,968	123,659	
1192	POPCORN HILL METERING POINT	PGE	22,116	0	
1193	PORT ANGELES SUBSTATION(BPA)		18,356,471	321,162	
1194	PORT ANGELES SUBSTATION(ITT RAYONIER)	NPI	465,014	0	
1195	PORT ORFORD SUBSTATION		296,514	13,679	63%
1196	PORT TOWNSEND SUBSTATION	PTPC	106,937	1,478	
1197	POTHOLES EAST CANAL GENERATING PLANT	SCBID	14,299	116	
1198	POTHOLES SUBSTATION		2,909,470	105,696	
1199	POTLATCH SUBSTATION(AVISTA)	AVA	34,912	591	
1200	POTLATCH SUBSTATION(BPA)		1,003,683	20,781	89%
1201	POWERLINE SUBSTATION	EPUD	22,086	238	
1202	PRAIRIE SUBSTATION(WWP & KOOTENAI ELEC COOP)	KEC/VWP	15,691	258	
1203	PRIEST RIVER SUBSTATION(AVISTA)	AVA	30,389	278	
1204	PRIEST RIVER SUBSTATION(BPA)		784,499	16,967	
1205	PROSSER SUBSTATION(BENTON CO PUD)	BPUD	42,954	346	
1206	PURDY SUBSTATION	PLC	59,163	929	
1207	PYRAMID SUBSTATION	CSCL	26,868	504	
1208	QUARTZ SUBSTATION (IDAHO POWER)	IPC	9,766	535	
1209	QUILCENE SUBSTATION	JPUD	25,406	0	
1210	QUINCY SUBSTATION	GPUD	16,867	560	
1211	RADAR PUMPING PLANT	USBR	13,763	625	
1212	RAFT SUBSTATION	RREC	2,177	2,240	
1213	RAINIER SUBSTATION	CTPUD	146,713	804	
1214	RALSTON SUBSTATION (BIG BEND)	BBEC	5,604	177	
1215	RANDLE SUBSTATION	LPUD	32,099	0	
1216	RATHDRUM SUBSTATION	AVA	28,219	1,401	
1217	RATTLESNAKE ROAD SUBSTATION (HORIZON WIND)	AWPP	16,318	0	
1218	RATTLESNAKE SUBSTATION(BENTONREA)	BREA	43,829	768	
1219	RAVER SUBSTATION		49,741,453	494,965	
1220	RAYMOND SUBSTATION		2,961,404	85,622	
1221	REATA SUBSTATION(BENTON CO PUD)	BPUD	50,929	289	
1222	RED MOUNTAIN SUBSTATION		4,273,462	36,280	
1223	REDMOND SUBSTATION(BPA)		40,351,976	252,209	
1224	REEDSPORT SUBSTATION (BPA)		3,412,604	47,432	94%
1225	REPUBLIC SUBSTATION		537,888	19,004	
1226	RESTON SUBSTATION		347,850	12,721	
1227	RICHLAND SUBSTATION		2,451,184	71,989	
1228	RILEY SUBSTATION	HEC	50,777	1,272	
1229	RIMROCK LAKE SUBSTATION (BENTON REA)	BREA	30,789	316	
1230	RINGOLD SUBSTATION		383,145	12,700	72%
1231	RIVER ROAD GENERATION PLANT SUBSTATION	CPU	10,244	5,516	
1232	RIVERBEND LANDFILL GENERATING PLANT (WM LLC)	WMLLC	10,273	1,506	
1233	RIVERFRONT SUBSTATION	BPUD	21,522	426	
1234	RIVERGATE SUBSTATION	PGE	4,468	494	
1235	RIVERTON SUBSTATION(CITY OF HEYBURN)	HEYB	22,577	1,783	
1236	ROBBINS ROAD METERING POINT	YPWR	20,394	304	
1237	ROCK CREEK SUBSTATION		43,322,389	101,344	
1238	ROCKY BROOK POWERHOUSE	M1PUD	2,016	973	
1239	ROCKY REACH SUBSTATION		4,230,844	12,410	
1240	ROE'S CORNER SUBSTATION	RUPT/EEM/REC	38,236	1,682	
1241	ROGUE SUBSTATION		26,115,451	210,920	
1242	ROSALIA SUBSTATION	AVA	28,425	544	
1243	ROSS SUBSTATION		15,513,738	480,298	
1244	ROUND VALLEY SUBSTATION		1,580,338	29,571	

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A	B	C	D	E
1245	ROUNDUP SUBSTATION	5,356,636	105,742	
1246	ROXBORO SUBSTATION	AVA 21,585	841	
1247	ROY L ZIMMERMAN SUBSTATION	CCL 45,535	347	
1248	ROZA SUBSTATION	3,368	0	
1249	RUBY STREET SUBSTATION (FRANKLIN CO PUD)	FPUD 61,727	799	
1250	RUSSELL SMITH POWERHOUSE	SCBID 11,906	144	
1251	SACAJAWEA SUBSTATION	24,453,765	59,173	99%
1252	SACHEEN SUBSTATION	2,175,355	53,518	
1253	SAGEHILL SUBSTATION	FPUD 1,506	455	
1254	SALEM ALUMINA SUBSTATION(SALEM ELEC COOP)	SEC 18,224	455	
1255	SALEM SUBSTATION (SALEM ELEC)	BPA/SEC 5,565,439	98,136	
1256	SAMMAMISH SUBSTATION	PSE 1,911	0	
1257	SAMUELS SUBSTATION	NLI 42,869	7,476	
1258	SAND CREEK SUBSTATION	5,934,882	43,446	
1259	SAND DUNES SUBSTATION	GPUD 3,510,776	0	
1260	SAND HILL CRANE SUBSTATION	RICH 70,897	846	
1261	SANDPOINT SUBSTATION(BPA)	1,106,305	26,010	85%
1262	SANTIAM SUBSTATION	23,174,044	341,392	95%
1263	SAPPHO SUBSTATION	1,974,542	73,954	
1264	SATSOP PARK SUBSTATION (GHPUD)	GHPUD 171,077	3,702	
1265	SATSOP SUBSTATION(BPA)	19,740,623	122,970	
1266	SATUS 2 SUBSTATION	YPWR 9,693	0	
1267	SATUS 3 SUBSTATION	YPWR 28,953	0	
1268	SCAPPOOSE SUBSTATION	PGE 39,482	954	
1269	SCARCELLO SUBSTATION (KOOTENAI ELECTRIC)	KEC 10,025	330	
1270	SCHULTZ SUBSTATION	65,266,276	269,137	
1271	SCOGGINS VALLEY METERING POINT	WOEC 27,685	1,064	
1272	SCOOTENEY SUBSTATION	1,346,338	22,031	91%
1273	SEDRO WOOLLEY SUBSTATION	PSE 41,393	710	
1274	SELLE SUBSTATION	233,060	3,963	41%
1275	SETTERS SUBSTATION	KEC 18,961	135	
1276	SEVEN FEATHERS SUBSTATION (UIUC)	UIUC 10,387	488	
1277	SHANO SUBSTATION	BBEC 32,045	341	
1278	SHELTON SUBSTATION	29,232,810	158,213	
1279	SHEPHERDS FLAT SUBSTATION (CAITHNESS SF)	CASH 63,847	0	
1280	SHORT MOUNTAIN GENERATING PLANT	EPUD 17,681	616	
1281	SICKLER SUBSTATION	12,694,452	421,827	
1282	SIFTON SUBSTATION	6,042,486	125,243	
1283	SILVER BOW SUBSTATION	1,761,511	28,222	
1284	SILVER CREEK SUBSTATION	3,477,973	64,777	
1285	SILVER STAR SUBSTATION	VEC 44,433	1,012	
1286	SILVERADO SUBSTATION (CLALLAM CO. PUD)	CMPUD 119,823	346	
1287	SKOOKUM SUBSTATION	M3PUD 68,054	425	
1288	SLATT SUBSTATION	68,794,234	220,001	94%
1289	SMITH CREEK POWERHOUSE	SFH 4,962	273	
1290	SMITHSON SUBSTATION (KITITITAS CO PUD)	KTPUD 29,513	80	
1291	SNIPES SUBSTATION	BREA 90,899	1,636	
1292	SNIPTION SUBSTATION	CBEC 47,195	215	
1293	SNOHOMISH SUBSTATION	44,804,200	560,641	
1294	SNO-KING SUBSTATION	39,313,642	297,302	
1295	SNYDER SUBSTATION	RICH 24,522	194	
1296	SODA SPRINGS SUBSTATION	SODA 6,336	19	
1297	SOUTH BUTTE SUBSTATION	SREC 12,037	0	
1298	SOUTH CUT BANK SUBSTATION	GEC 11,955	0	
1299	SOUTH ELMA SUBSTATION	GHPUD 342,096	2,851	
1300	SOUTH FORK SUBSTATION	TPUD 49,334	531	
1301	SOUTH SLOPE SUBSTATION	BREA 31,283	240	
1302	SOUTH SUBSTATION (SEATTLE CITY LIGHT)	SCL 62,772	0	
1303	SOUTH TACOMA SUBSTATION	4,887,977	66,439	
1304	SPALDING SUBSTATION	CPC 51,421	307	
1305	SPANGLE SUBSTATION	AVA 18,957	339	
1306	SPAR CANYON SUBSTATION	SREC 703,741	33,580	
1307	SPAW SUBSTATION	BPUD 11,078	0	
1308	SPEARFISH SUBSTATION(KLICKITAT CO PUD)	KPUD 35,741	552	
1309	SPRING CREEK SUBSTATION	9,530,317	40,515	
1310	SPRINGFIELD SUBSTATION(SPRINGFIELD UTILITY BOARD)	SUB 23,401	0	
1311	SPRINGHILL SUBSTATION(INLAND POWER & LIGHT)	IPL 23,544	181	
1312	ST. HELENS SUBSTATION	PGE 18,502	1,579	
1313	ST. JOHNS SUBSTATION	9,733,330	177,023	
1314	STATELINE SUBSTATION	35,972	5,247	25%
1315	STEILACOOM SUBSTATION	754,305	7,695	69%
1316	STEVENS DRIVE SUBSTATION(CITYOF RICHLAND)	RICH 51,835	199	
1317	STEVENSON SUBSTATION	SKPUD 25,896	1,212	
1318	STEVENSVILLE SUBSTATION	RCEC 2,086	588	
1319	STILLWATER SUBSTATION(LINCOLNELECTRIC COOP)	LINC 37,172	742	
1320	SUBSTATION FG	USN 15,482	3,485	
1321	SUGAR MILL SUBSTATION	IFP 185,017	1,356	
1322	SULLIVAN SUBSTATION(VERA WATER & POWER)	VWP 5,684	140	
1323	SUMAS SUBSTATION	SUM 13,840	427	
1324	SUMMER LAKE SUBSTATION	PAC 2,682,663	36,416	43%
1325	SUMNER SUBSTATION	CCEC 22,970	1,055	
1326	SUN HEAVEN NO. 2 SUBSTATION	BPUD 31,152	596	
1327	SUNNYSIDE PORT SUBSTATION	BREA 35,471	0	
1328	SUNSET ROAD SUBSTATION (BENTON CO PUD)	BPUD 26,467	439	

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A	B	C	D	E	
1329	SURPRISE LAKE SUBSTATION		604,747	12,819	80%
1330	SWAN VALLEY SUBSTATION		6,903,859	57,833	98%
1331	SWEETWATER SUBSTATION	AVA	22,846	494	
1332	T3BADAS SUBSTATION (MASON COUNTY PUD NO 1)		41,693	0	
1333	TACOMA SUBSTATION		19,730,805	363,281	96%
1334	TAFT SUBSTATION		35,497,192	550,665	
1335	TAHKENITCH SUBSTATION		7,257,445	58,161	
1336	TAPTEAL SUBSTATION	RICH	92,685	1,277	
1337	TARBELL SUBSTATION	CRPUD	18,665	251	
1338	TARGHEE SUBSTATION	BPA/FREC	1,886,679	54,016	
1339	TARGHEE TAP SWITCHING STATION		317,710	7,709	
1340	TARKIO SUBSTATION (MISSOULA)	MEC	3,886	487	
1341	TAYLOR FLATS SUBSTATION	FPUD	53,710	745	
1342	TEANAWAY SUBSTATION	KTPUD	398	902	
1343	TECOMA METERING POINT	RREC	15,357	2,391	
1344	TETON SUBSTATION		3,243,793	64,679	
1345	THAYER DRIVE SUBSTATION(CITY OF RICHLAND)	RICH	85,951	1,236	
1346	THE DALLES SUBSTATION	BPA/NWPUD/WEC	2,432,392	52,174	
1347	THOMPSON FALLS SUBSTATION	NWE	41,428	1,246	
1348	THURSTON SUBSTATION	EWEB	27,476	287	
1349	TIDE FLATS SUBSTATION	TPWR	(1,389)	0	
1350	TILLAMOOK SUBSTATION		8,774,019	136,928	
1351	TIMBER SUBSTATION		748,498	18,939	
1352	TINCUP SUBSTATION	LVE	559,127	13,870	
1353	TOLEDO SUBSTATION		14,491,668	141,774	
1354	TOPPENISH SUBSTATION (YAKIMA POWER)		42,761	0	
1355	TOSTON SUBSTATION	NWE	24,600	1,393	
1356	TOWNSEND METERING POINT	VEC	35,194	1,183	
1357	TRASK RIVER SUBSTATION	TPUD	19,987	2,046	
1358	TREGO SUBSTATION(LINCOLN ELECTRIC COOP)	BPA/LINC	588,787	12,819	
1359	TRENTWOOD SUBSTATION		5,690,885	84,607	81%
1360	TROUT CREEK SUBSTATION	NLI	45,108	476	
1361	TROUTDALE SUBSTATION(BPA)		31,316,896	201,239	
1362	TROY SUBSTATION		542,902	14,989	56%
1363	TRUMBULL CREEK SUBSTATION	FEC	51,518	618	
1364	TUCANNON RIVER SUBSTATION		9,275,412	43,504	
1365	TUM TUM SUBSTATION	IPL	26,909	576	
1366	TUMBLE CREEK SUBSTATION		809,064	12,703	83%
1367	TWILIGHT SUBSTATION	PGE	20,840	110	
1368	TWISP SUBSTATION	OPUD	66,883	0	
1369	TWO MILE ROAD SUBSTATION		1,074,631	12,704	71%
1370	TYEE SUBSTATION	LLP	86,912	1,030	
1371	TYGH VALLEY SUBSTATION (WASCO ELEC. COOP)	WEC	27,349	3,584	
1372	U. S. PLYWOOD SUBSTATION	LPUD	15,723	0	
1373	UKIAH SUBSTATION	CPCA	81,846	1,373	
1374	UNDERWOOD SUBSTATION	SKPUD	85,372	1,494	
1375	UNDERWOOD TAP AUTO-SECTIONALIZING STATION		698,308	3,520	
1376	UNITY SUBSTATION (IDAHO POWERCOMPANY)	IPC	6,894	0	
1377	UNITY SUBSTATION(BPA)	BPA/UEC	1,553,224	50,234	
1378	UPPER GENERATING PLANT	IFP	17,829	0	
1379	USK SUBSTATION(BPA)	BPA/POPD	142,835	30,753	
1380	VALHALLA SUBSTATION	BPA/CHPD	3,785,620	116,733	92%
1381	VALLEY SUBSTATION(RAFT RIVER ELEC COOP)	RREC	23,392	1,804	
1382	VANCOUVER SHIPYARD SUBSTATION	CPU	26,421	0	
1383	VANTAGE STATE PARK METERING POINT	GPUD	20,238	0	
1384	VANTAGE SUBSTATION		36,359,775	266,445	
1385	VAUGHN SUBSTATION	PLC	29,287	965	
1386	VERA SUBSTATION (VERA W&P, INLAND P&L)	IPL/VWP	10,025	883	
1387	VICTOR SUBSTATION (RAVALLI COUNTY ELEC COOP)	RCEC	6,943	254	
1388	VICTOR SUBSTATION(FALL RIVER RURAL ELEC COOP)	FREC	81,618	562	
1389	VIEW SUBSTATION	CPU	13,906	355	
1390	VINSON METERING POINT	UEC	27,323	228	
1391	VISTA SUBSTATION	BPUD	25,231	487	
1392	WAGNER LAKE SUBSTATION		543,101	13,312	
1393	WAHLUKE SUBSTATION	GPUD	10,343	0	
1394	WALLA WALLA SUBSTATION(BPA)		10,779,244	90,438	
1395	WALLA WALLA SUBSTATION(PACIFICORP)	PAC	224,061	0	
1396	WALNUT CITY SUBSTATION(CITY OF MCMINNVILLE)	MWL	28,886	223	
1397	WALTON SUBSTATION		213,497	10,191	60%
1398	WARDEN POLE METERING POINT	GPUD	14,752	885	
1399	WARDEN POLE NO 2 METERING POINT	GPUD	13,121	0	
1400	WARNER SUBSTATION		3,553,133	59,612	
1401	WARREN SUBSTATION		592,072	40,176	
1402	WAUTOMA SUBSTATION		23,661,602	128,794	
1403	WEIPPE SUBSTATION	AVA	18,934	330	
1404	WELLS SUBSTATION(IDAHO POWER)	IPC	53,246	856	
1405	WENDSON SUBSTATION		6,660,753	109,176	
1406	WEST BURLEY SUBSTATION(UNITED ELEC COOP)	UEC/BURL	156,561	3,714	
1407	WEST JOHN DAY SUBSTATION	OTEC	51,941	1,846	
1408	WEST PLAINS SUBSTATION (IP&L)	IPL	20,162	338	
1409	WEST REXBURG METERING POINT	PAC	21,513	0	
1410	WEST WELLS SUBSTATION	WREC	18,036	361	
1411	WEST WENDOVER METERING POINT	WREC	59,200	1,134	
1412	WESTCOTT SUBSTATION (CANBY ELECTRIC)	CUB	6,150	130	

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1413	WESTMORELAND SUBSTATION	EWEB	5,482	0
1414	WESTSIDE SUBSTATION(BPA)		6,749,386	32,555
1415	WEYERHAEUSER INDUSTRIAL WAY WEYCO NO 1 SUBSTATION (C CWPUD		20,731	575
1416	WHEAT FIELD SUBSTATION (WFWPP)	EDP	10,273	0
1417	WHEELER SUBSTATION	GPUD	10,359	0
1418	WHITCOMB SUBSTATION	BPUD	95,864	471
1419	WHITE BLUFFS SUBSTATION		11,028,641	88,417
1420	WHITE CREEK SUBSTATION (KPUD)	KPUD	200,409	8,296
1421	WHITE RIVER SUBSTATION	PSE	10,703	28
1422	WHITE SWAN SUBSTATION(BENTON REA)	BREA	10,025	1,169
1423	WHITEHALL SUBSTATION	VEC	64,096	1,189
1424	WILLAKENZIE SUBSTATION	EWEB	32,420	0
1425	WILLARD JOHNSON SUBSTATION(HOOD RIVER ELEC)	HREC	90,662	220
1426	WILLIS SUBSTATION (KPUD)	KPUD	152,498	5,501
1427	WILSON RIVER SUBSTATION	TPUD	46,669	750
1428	WINCHESTER SUBSTATION	USBR	3,851	857
1429	WINDISHAR SUBSTATION	MWL	32,018	7,451
1430	WINE COUNTRY SUBSTATION	BPA/PAC	6,342,281	27,042
1431	WINNEMUCCA SUBSTATION	NVE	134,454	1,573
1432	WINTHROP SUBSTATION		1,349,024	32,915
1433	WOODLAND SWITCHING STATION	PAC	250,630	938
1434	WOODSIDE SUBSTATION (RAVALLI CO ELEC COOP)	RCEC	17,660	0
1435	WREN SUBSTATION		1,656,489	19,588
1436	WYNOOCHEE HYDRO PLANT	TPWR	73,355	2,084
1437	YAAK SUBSTATION		301,283	9,055
1438	ZEPHYR HEIGHTS SUBSTATION		46,512	359
1439	Subtotal Stations		2,743,330.067	30,800.172
1440	Total Network		5,500,467,721	37,862,604

Southern Intertie Facilities

Transmission Lines		Owner	Investment (\$)	O&M (\$)	Multi %
1441	ALVEY-DIXONVILLE NO 1	BPA/PAC	25,192,398	0	
1442	BIG EDDY 500/230KV TIE NO 1		51,352	1,569	
1443	BIG EDDY-CELILO NO 1		1,284,742	4,865	
1444	BIG EDDY-CELILO NO 2		1,463,788	2,441	
1445	BIG EDDY-CELILO NO 3		373,697	228	
1446	BIG EDDY-CELILO NO 4		249,132	164	
1447	BUCKLEY-GRIZZLY NO 1		9,961,133	13,290	57%
1451	BUCKLEY-MARION NO 1		21,428,265	16,320	50%
1452	CAPTAIN JACK-MALIN NO 1		844,154	2,315	
1453	CAPTAIN JACK-OLINDA NO 1		7,393,503	1,368	
1454	CELILO-SYLMAR NO 1		27,022,357	125,930	
1455	COYOTE SPRINGS-SLATT NO 1		328,931	1,021	12%
1456	DIXONVILLE-MERIDIAN		32,272,663	939	
1457	GRIZZLY-CAPTAIN JACK NO 1		22,226,974	111,880	
1458	GRIZZLY-SUMMER LAKE NO 1		19,480,851	19,332	57%
1459	JOHN DAY-BIG EDDY NO 1		2,008,149	2,663	
1460	JOHN DAY-GRIZZLY NO 1		12,099,924	43,598	
1461	JOHN DAY-GRIZZLY NO 2		10,521,016	31,396	
1462	MARION-ALVEY NO 1		4,456,110	13,812	50%
1463	SLATT-JOHN DAY NO 1		361,130	1,804	7%
1464	Subtotal Lines		199,020,269	394,935	

Stations		Owner	Investment (\$)	O&M (\$)	Multi %
1465	ALVEY SUBSTATION		7,677,944	48,651	16%
1466	BAKEOVEN COMPENSATION STATION		22,847,075	41,617	
1467	BIG EDDY 500 KV SWITCHYARD		12,674,128	58,263	
1468	BIG EDDY SUBSTATION		61,238,549	570,472	80%
1469	BUCKLEY SUBSTATION		6,512,496	66,623	64%
1470	CAPTAIN JACK SUBSTATION		42,565,798	217,020	
1471	CELILO CONVERTER NO 3		880,128	6,940	
1472	CELILO CONVERTER NO 4		864,806	2,766	
1473	CELILO DC CONVERTER STATION		305,570,593	3,355,898	
1474	CHIEF JOSEPH SUBSTATION		978,839	19,814	3%
1475	DIXONVILLE SUBSTATION	PAC	7,837,854	0	
1476	FORT ROCK COMPENSATION STATION		17,320,364	77,347	
1477	GRIZZLY SUBSTATION		33,596,734	296,181	
1478	JOHN DAY SUBSTATION		12,737,677	110,092	27%
1479	MALIN SUBSTATION	BPA/PAC	26,046,972	261,966	
1480	MARION SUBSTATION		3,381,162	32,980	8%
1481	MERIDIAN SUBSTATION(PACIFICORP)	PAC	9,346,284	0	
1482	ROUND MOUNTAIN SUBSTATION	PG&E	65,046	0	
1483	SAND SPRING COMPENSATION STATION		18,252,013	90,310	
1484	SLATT SUBSTATION		4,071,004	13,019	6%
1485	SUMMER LAKE SUBSTATION	PAC	3,556,088	48,273	57%
1486	SYCAN COMPENSATION STATION		16,203,749	83,386	
1487	SYLMAR DC CONVERTER STATION	LADWP	2,784	0	
1488	Subtotal Stations		614,228,086	5,401,618	
1489	Total Southern Intertie		813,248,356	5,796,553	

Appendix A
BP-18 Rate Case Initial Proposal Segmentation Details

A	B	C	D	E	
<u>Eastern Intertie Facilities</u>					
Transmission Lines					
1490	BROADVIEW-GARRISON NO 1	Owner BPA/COTP	Investment (\$) 47,280,913	O&M (\$) 167,450	Multi %
1491	BROADVIEW-GARRISON NO 2	BPA/COTP	46,990,310	146,515	
1492	Subtotal Lines		94,271,222	313,965	
Stations					
1493	COLSTRIP SUBSTATION	Owner NWE	Investment (\$) 43,099	O&M (\$) 1,362	Multi %
1494	GARRISON SUBSTATION		27,007,475	175,176	31%
1495	Subtotal Stations		27,050,574	176,538	
1496	Total Eastern Intertie		121,321,796	490,503	
<u>Utility Delivery Facilities</u>					
Transmission Lines					
1497	ALBANY-BUREAU OF MINES NO 1	Owner	Investment (\$) 23,660	O&M (\$) 567	Multi %
1498	GROUSE CREEK-TECOMA (LEASED FACILITIES)		121,332	0	6%
1499	HOOD RIVER-COOP SERVICE NO 1		23,808	663	
1500	Subtotal Lines		168,799	1,230	
Stations					
1501	ACTON SUBSTATION	Owner	Investment (\$) 43,859	O&M (\$) 2,538	Multi % 19%
1502	ALBANY SUBSTATION		885,735	9,554	7%
1503	ALDERWOOD SUBSTATION		354,390	18,204	43%
1504	BANDON SUBSTATION		227,939	3,392	5%
1505	BONNERS FERRY SUBSTATION		332,623	6,706	14%
1506	BURBANK SUBSTATION		114,552	2,659	18%
1507	BURNT WOODS SUBSTATION		141,126	7,855	44%
1508	CASCADE LOCKS SUBSTATION		235,592	6,292	39%
1509	DAVIS CREEK SUBSTATION	BPA/SVEC	471,589	8,287	86%
1510	DIXIE SUBSTATION		337,515	7,966	45%
1511	DRAIN SUBSTATION		283,499	3,628	9%
1512	EAGLE LAKE SUBSTATION		241,690	8,242	54%
1513	GARDINER SUBSTATION		313,901	12,396	34%
1514	GLADE SUBSTATION		319,684	6,201	58%
1515	HARRISBURG SUBSTATION		190,947	742	4%
1516	HOOD RIVER SUBSTATION		251,117	8,172	19%
1517	IONE SUBSTATION		131,095	4,002	14%
1518	LACLEDE SUBSTATION	BPA/NLI	31,715	7,682	100%
1519	LANGLOIS SUBSTATION		203,884	2,776	19%
1520	LYNCH CREEK SUBSTATION		545,682	9,604	43%
1521	MAPLETON SUBSTATION		54,533	3,141	7%
1522	MINIDOKA SUBSTATION		246,447	5,691	64%
1523	MONMOUTH SUBSTATION		576,749	13,297	44%
1524	MOUNTAIN AVENUE SUBSTATION		457,106	4,199	22%
1525	NECANICUM SUBSTATION	BPA/WOEC	40,602	1,841	30%
1526	NORTH BENCH SUBSTATION		15,179	169	3%
1527	NORTH BUTTE SUBSTATION	BPA/CPI	65,029	2,312	35%
1528	PARKDALE SUBSTATION		161,852	2,763	13%
1529	PORT ORFORD SUBSTATION		174,549	8,052	37%
1530	POTLATCH SUBSTATION(BPA)		117,768	2,438	11%
1531	REEDSPORT SUBSTATION (BPA)		203,320	2,826	6%
1532	RINGOLD SUBSTATION		116,044	3,846	22%
1533	SANDPOINT SUBSTATION(BPA)		198,146	4,658	15%
1534	SCOOTENEY SUBSTATION		136,876	2,240	9%
1535	SELLE SUBSTATION		332,559	5,655	59%
1536	STATELINE SUBSTATION	BPA/CREA	105,755	15,426	75%
1537	STEILACOOM SUBSTATION		346,790	3,538	31%
1538	SURPRISE LAKE SUBSTATION		155,330	3,292	20%
1539	SWAN VALLEY SUBSTATION		165,343	1,385	2%
1540	TROY SUBSTATION		431,599	11,916	44%
1541	TUMBLE CREEK SUBSTATION		170,214	2,672	17%
1542	TWO MILE ROAD SUBSTATION	BPA/CCEC	443,047	5,238	29%
1543	WALTON SUBSTATION		141,844	6,771	40%
1544	WINTHROP SUBSTATION		180,015	4,392	12%
1545	YAAK SUBSTATION		225,898	6,789	43%
1546	Subtotal Stations		10,920,729	261,448	
1547	Total Utility Delivery		11,089,528	262,679	

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A	B	C	D	E
<u>DSI Delivery Facilities</u>				
Transmission Lines	Owner	Investment (\$)	O&M (\$)	Multi %
1548 None				
1549 Subtotal Lines		0	0	
Stations	Owner	Investment (\$)	O&M (\$)	Multi %
1550 CONKELLEY SUBSTATION		2,249,725	34,389	20%
1551 INTALCO SUBSTATION		6,422,640	127,866	36%
1552 TRENTWOOD SUBSTATION		1,295,002	19,253	19%
1553 Subtotal Stations		9,967,366	181,507	
1554 Total DSI Delivery		9,967,366	181,507	
<u>Unsegmented Facilities (segmented pro-rata)</u>				
Transmission Lines (allocated by direct line segmentation)	Owner	Investment (\$)	O&M (\$)	Multi %
1555 BALD MOUNTAIN-CONDIT FIBER SYSTEM		6,914	0	
1556 BELLINGHAM-CUSTER FIBER SYSTEM		128,524	0	
1557 BELL-BOUNDARY FIBER SYSTEM		1,197,085	0	
1558 BELL-NOXON FIBER SYSTEM		44,711	0	
1559 BPA SYSTEM-LINES		6,044,940	143,527	
1560 CHENOWETH-HARVEY NO 1		81,982	277	
1561 CHENOWETH-HARVEY NO 2		81,980	151	
1562 CHRISTOPHER TAP TO TACOMA-COVINGTON-4 (RETIRED)		61,063	0	
1563 CONKELLY TAP TO HUNGRY HORSE-COLUMBIA FALLS NO 1 (OBSOLETE)		2,743	0	
1564 COTTAGE GROVE-DRAIN NO 1 (RETIRED)		312,761	0	
1565 COVINGTON-BELL FIBER SYSTEM		80,126	0	
1566 COVINGTON-MAPLE VALLEY FIBER SYSTEM		17,342	0	
1567 FIDALGO-BELLINGHAM FIBER SYSTEM (BLACK ROCK CABLE INC)		360,930	0	
1568 FRANKLIN-MUNRO FIBER SYSTEM		185,538	0	
1569 FRANZ HOLMES TAP TO COWLITZ-LAGRANDE NO 1.2 (OBSOLETE)		276,241	0	
1570 GRAND COULEE 115KV-GRAND COULEE RS FIBER SEG		18,644	0	
1571 JACKSON TAP TO CANAL-SECOND LIFT NO. 1(SOLD)		47,234	397	
1572 KEELER-ALVEY FIBER SYSTEM		1,018,867	0	
1573 KEELER-COVINGTON FIBER SYSTEM		840,443	0	
1574 LANE-FAIRVIEW FIBER SYSTEM		1,889	270	
1575 MARION-SANTIAM 2 (DE-ENERGIZED)		615,992	103	
1576 NOXON-TAFT FIBER SYSTEM		357,479	0	
1577 OREGON CITY STUB 20/7-23/12 SECTION(DEENERGIZED)		155	0	
1578 PEARL-TROUTDALE FIBER SYSTEM		113,714	0	
1579 REEDSPORT-TAHKENITCH FIBER SYSTEM		24,936	12,379	
1580 ROSS-FRANKLIN FIBER SYSTEM		3,312,226	0	
1581 ROSS-MALIN FIBER SYSTEM		4,670,521	0	
1582 SANTIAM-LYONS UHV XFMR 1		126,000	0	
1583 SWAN VALLEY-SWAN VALLEY RS FIBER SYSTEM		6,687	0	
1584 TUMBLE CREEK-HALL RIDGE NO.1		610,574	6,275	
1585 Subtotal Lines		20,648,241	163,378	
Stations (allocated according to direct station segmentation)	Owner	Investment (\$)	O&M (\$)	Multi %
1586 ADDY SUBSTATION		1,217,569	11,380	10%
1587 ALCOA SUBSTATION		479,123	11,095	5%
1588 APPLEWAY (INACTIVE. SEE NOTES)	KEC	24,252	0	
1589 ARGENT(INACTIVE. SEE NOTES)	FPUD	55,722	0	
1590 BAYSHORE SUBSTATION(OBS-RETIRED)	M3PUD	19,501	0	
1591 BURBANK SUBSTATION		78,480	1,822	13%
1592 CAPE HORN(INACTIVE. SEE NOTES)	SKPUD	14,135	0	
1593 CENTRALIA START UP(INACTIVE. SEE NOTES)		13,477	0	
1594 COLUMBIA RIVER RANCH METERING POINT(INACTIVE. SEE NOTES)		22,761	0	
1595 EAGLE LAKE SUBSTATION		5,206	178	1%
1596 FOSTER (INACTIVE, SEE NODTES)	PAC	4,456	0	
1597 GLADE SUBSTATION		38,332	743	7%
1598 GREAT WESTERN MALTING COMPANYSUBSTATION (RETIRED)	CPU	9,499	0	
1599 KAMILCHE SUBSTATION (OBS-RETIRED)	M3PUD	49,049	0	
1600 KIONA HYDROMET STATION		6,709	0	
1601 MOYIE SUBSTATION		168,870	6,342	
1602 NORWAY SUBSTATION	CCEC	13,242	14,081	
1603 PAUL D. JOHNSON SUBSTATION		2,847,803	5,525	
1604 RINGOLD SUBSTATION		31,143	1,032	6%
1605 SYSTEM WIDE		3,636,989	6,612,220	
1606 TACOMA SUBSTATION		759,676	13,987	4%
1607 TRENTWOOD SUBSTATION		14,931	222	0%
1608 VALHALLA SUBSTATION	BPA/CHPD	317,754	9,798	8%
1609 Subtotal Stations		9,828,679	6,688,426	
Other Locations (allocated by direct station segmentation)	Owner	Investment (\$)		
1610 ALVEY MAINTENANCE HEADQUARTERS		5,494,284		
1611 AUGSPURGER MOUNTAIN RADIO STATION		11,893		
1612 BALD MOUNTAIN RADIO STATION		130,284		
1613 BELL MAINTENANCE HEADQUARTERS		536,791		
1614 BIDDLE BUTTE RADIO STATION		163,480		
1615 BLUE RIDGE RADIO STATION		91,805		
1616 BLYN RADIO STATION		49,178		

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A	B	C	D	E
1617	BPA SYSTEM	14,801,220		
1618	BPA SYSTEM-MICROWAVE &RADIO STATIONS	182,611		
1619	BPA SYSTEM-NON ELECTRIC PLANT& MISC	4,919,823		
1620	BURLEY MAINTENANCE HEADQUARTERS	6,969		
1621	CAPE BLANCO RADIO STATION (BPA)	58,688		
1622	CHEHALIS MAINTENANCE HEADQUARTERS	88,062		
1623	CHEMAWA MAINTENANCE HEADQUARTERS	74,117		
1624	COVINGTON MAINTENANCE HEADQUARTERS	15,113		
1625	COYOTE HILLS RADIO STATION	25,472		
1626	CULDESAC RADIO STATION	6,995		
1627	CYRUS NOE RADIO STATION	358,292		
1628	DECATUR EAST RADIO STATION	50,787		
1629	DECATUR WEST RADIO STATION	47,229		
1630	DEL RIO RADIO STATION	13,084		
1631	DITTMER BPA SYSTEM CONTROL CENTER	18,651,102		
1632	EASTERN CONTROL CENTER	32,523		
1633	EUGENE C. STARR COMPLEX	9,922,339		
1634	GRAND COULEE RADIO STATION	47,372		
1635	GRANITE MOUNTAIN RADIO STATION	144,812		
1636	GREEN MOUNTAIN PASSIVE REPEATER SITE	3,007		
1637	HORSE ROCK RADIO STATION	(2,444)		
1638	KAHLOTUS RADIO STATION	370,232		
1639	KALISPELL MAINTENANCE HEADQUARTERS	29,664		
1640	KEELER MAINTENANCE HEADQUARTERS	40,199		
1641	KENNEWICK RADIO STATION	49,374		
1642	LAKESIDE RADIO STATION	91,184		
1643	LEWISTON MAINTENANCE HEADQUARTERS	59,008		
1644	LONGVIEW ANNEX I	4,156,702		
1645	LONGVIEW MAINTENANCE HEADQUARTERS	6,038,256		
1646	LOWELL BUTTE RADIO STATION	7,559		
1647	MALAGA RADIO STATION	17,384		
1648	MALIN MAINTENANCE HEADQUARTERS	398,113		
1649	MARYS PEAK RADIO STATION	5,002		
1650	MEGLER RADIO STATION	11,556		
1651	MILLER PEAK RADIO STATION	117,099		
1652	MINT FARM GENERATING PLANT (INACTIVE)	36,768		
1653	MT. HEBO RADIO STATION	12,244		
1654	MUNRO BPA SYSTEM CONTROL CENTER	5,515,109		
1655	NASELLE RIDGE RADIO STATION	295,505		
1656	NORTH BEND MAINTENANCE HEADQUARTERS	723,564		
1657	NORTH BONNEVILLE ANNEX	29,495		
1658	ODELL BUTTE RADIO STATION	92,507		
1659	OLYMPIA MAINTENANCE HEADQUARTERS	166,376		
1660	OSTRANDER PASSIVE REPEATER SITE	25,022		
1661	PASCO MAINTENANCE HEADQUARTERS	89,312		
1662	POMEROY RADIO STATION	458,885		
1663	REDMOND MAINTENANCE HEADQUARTERS	247,649		
1664	ROCKDALE PASSIVE REPEATER N1 SITE	85,587		
1665	ROCKY RIDGE RADIO STATION	114,415		
1666	ROOSEVELT RADIO STATION	13,534		
1667	ROSS AMPERE BUILDING	723,768		
1668	ROSS COMPLEX	29,507,438		
1669	ROSS CONSTRUCTION AND SERVICES BUILDING	153,407		
1670	ROSS FOG TEST BUILDING	81,579		
1671	ROSS HEATLINE	6,923,624		
1672	ROSS MOBILE STORAGE	8,112		
1673	ROSS RADIO STATION	7,516		
1674	RUBY MOUNTAIN	108,949		
1675	SCHULTZ MAINTENANCE HEADQUARTERS	1,377,094		
1676	SEATTLE RADIO STATION	3,939		
1677	SHANIKO RADIO STATION	17,135		
1678	SICKLER MAINTENANCE HEADQUARTERS	50,012		
1679	SKYROCKET RADIO STATION	6,481		
1680	SNOHOMISH MAINTENANCE HEADQUARTERS	58,551		
1681	SOUTH MOUNTAIN RADIO STATION	2,770		
1682	SPOKANE HANGAR	75,378		
1683	SQUAK MOUNTAIN RADIO STATION	4,272		
1684	TACOMA PUBLIC UTILITIES DISPATCH CENTER	36,618		
1685	TACOMA RADIO STATION	158,688		
1686	WALKER MOUNTAIN RADIO STATION	625,240		
1687	WEST PORTLAND RADIO STATION	52,263		
1688	Subtotal Other	<u>115,205,026</u>		
	Emergency Stock (allocated by direct sub segmentation)	Owner	Investment (\$)	
1689	ROSS WAREHOUSE		12,992,683	
1690	Subtotal Emergency Stock		<u>12,992,683</u>	

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BP-18 Rate Case Initial Proposal Segmentation Details**

A	B	C	D	E
<u>Depreciable Land</u>				
	Station Land (segmented to Network)	Owner		Investment (\$)
1691	LA PINE SUBSTATION			18,619
1692	NOXON CONSTRUCTION SUBSTATION			1
1693	OKANOGAN SUBSTATION			14,156
1694	SIFTON SUBSTATION			12,810
1695	Subtotal Stations			45,586
	Transmission Line Land (segmented to Network)	Owner		Investment (\$)
1696	ALBANY-BURNT WOODS NO 1			307,619
1697	ASHE-SLATT NO 1			19,806
1698	BELL-ADDY NO 1			5,046
1699	BELL-BOUNDARY NO 3			5,046
1700	BELL-LANCASTER NO 1			8,276
1701	BIG EDDY-CHENOWETH NO 1			387,831
1702	BIG EDDY-CHENOWETH NO 2			387,596
1703	BIG EDDY-SPRING CREEK NO 1			391,887
1704	CHEHALIS-OLYMPIA NO 1			793
1705	CHEHALIS-RAYMOND NO 1			47,011
1706	CHIEF JOSEPH-EAST OMAK NO 1			10,724
1707	CHIEF JOSEPH-MONROE NO 1			141,953
1708	CHIEF JOSEPH-SNOHOMISH NO 3			31,581
1709	COLUMBIA-ELLENSBURG NO 1			181,965
1710	DE MOSS-FOSSIL NO 1			320
1711	DWORSHAK PH-OROFINO NO 1			400
1712	EAST OMAK TAP TO GRAND COULEE-FOSTER CREEK NO 1			174,817
1713	FAIRVIEW-BANDON NO 2			1,602
1714	FIDALGO-LOPEZ ISLAND NO 5			63,802
1715	FLATHEAD-HOT SPRINGS NO 1			10,728,941
1716	FOREST GROVE-TILLAMOOK NO 1			1,731
1717	FRANKLIN-BADGER CANYON NO 1			1,432
1718	GARRISON-ANACONDA NO 1			149,847
1719	GOSHEN-DRUMMOND NO 1			3,924
1720	GRAND COULEE-BELL NO 5			2,114,751
1721	GRAND COULEE-HANFORD NO 1			14,375
1722	GRAND COULEE-OKANOGAN NO 2			470
1723	GRAND COULEE-SCHULTZ NO 1			24,380
1724	HARVALUM-BIG EDDY NO 1			19,142,567
1725	HORSE HEAVEN-HARVALUM NO 1			387,596
1726	HOT SPRINGS-GARRISON FIBER SYSTEM			58,561
1727	HOT SPRINGS-RATTLESNAKE NO 1			6,007,072
1728	HUNGRY HORSE-CONKELLEY NO 1			6,043
1729	KEELER-OREGON CITY NO 2			8,729
1730	KELLER TAP TO GRAND COULEE-OKANOGAN NO 2			3,200
1731	KLONDIKE SCHOOLHOUSE-JOHN DAY NO 1			657,883
1732	LANCASTER-NOXON NO 1			82,527
1733	LIBBY-BONNERS FERRY NO 1			5,851
1734	LONGVIEW-WASHINGTON WAY NO 1			211,016
1735	LOWER MONUMENTAL-MCNARY NO 1			1,071
1736	MCNARY-ROSS NO 1			387,596
1737	OLYMPIA-GRAND COULEE NO 1			16,745
1738	OLYMPIA-SATSOP NO 3			27,986
1739	OSTRANDER-PEARL NO 1			45,358
1740	PALISADES-CATTLE CREEK NO 1			89,749
1741	PAUL-ALLSTON NO 2			236
1742	PENDLETON-LAGRANDE (INACTIVE, SEE NOTES)			195
1743	RAVER-COVINGTON NO 2			387,596
1744	RAYMOND-COSMOPOLIS NO 1			36,335
1745	ROCKY REACH-MAPLE VALLEY NO 1			210,071
1746	ROSS-LEXINGTON NO 1			82,898
1747	ROUNDUP-LAGRANDE NO 1			645,809
1748	SANTIAM-TOLEDO NO 1			78,122
1749	SCHULTZ-WAUTOMA NO 1			2,277,742
1750	SPIRIT TAP TO COLVILLE-BOUNDARY NO 1			24,206
1751	SWAN VALLEY-TETON NO 1			54,679
1752	TAFT-BELL NO 1			133,069
1753	TUCANNON RIVER-NORTH LEWISTON NO 1			862,880
1754	WALLA WALLA-PENDLETON NO 1			126,393
1755	WALLA WALLA-TUCANNON RIVER NO 1			1,340
1756	WAUTOMA-OSTRANDER NO 1			1,747
1757	WAUTOMA-ROCK CREEK NO 1			391,431
1758	Subtotal Network Line Land			47,662,227

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A	B	C	D	E
Transmission Line Land (segmented to Generation Integration)				
	Owner		Investment (\$)	
1759	ANDERSON RANCH-MOUNTAIN HOME NO 1		60,166	
1760	DETROIT-SANTIAM NO 1		677	
1761	Subtotal GI Line Land		60,843	
Transmission Line Land (segmented pro-rata)				
	Owner		Investment (\$)	
1762	COVINGTON-MAPLE VALLEY FIBER SYSTEM		23,437	
1763	FRANKLIN-HATWAI FIBER SYSTEM		82,675	
1764	ROSS-FRANKLIN FIBER SYSTEM		97,757	
1765	Subtotal Line Land pro-rata		203,868	
Other Facility Land (segmented pro-rata)				
	Owner		Investment (\$)	
1766	ALBION BUTTE RADIO STATION		6,356	
1767	APLEGATE BUTTE RADIO STATION		49,780	
1768	BOISTFORT PEAK RADIO STATION(WEYERHOUSER)		9,081	
1769	CAPE BLANCO RADIO STATION (BPA)		118,992	
1770	CAPITOL PEAK RADIO STATION(BPA)		1,916	
1771	ELLIS RADIO STATION		6,824	
1772	HAYSTACK BUTTE RADIO STATION		388,346	
1773	INDIAN MOUNTAIN RADIO STATION		72,672	
1774	SEVEN MILE HILL METEOROLOGICAL TOWER		15,105	
1775	SICKLER PASSIVE REPEATER SITE		913	
1776	SWAN LAKE POINT RADIO STATION		53,983	
1777	Subtotal Other pro-rata		723,968	

Ancillary Service Facilities

Communication and Control Equipment ***				
	Owner		Investment (\$)	
1778	ABERDEEN SUBSTATION		124,433	
1779	ADAIR SUBSTATION(BPA)		2,942	
1780	ADDY SUBSTATION		144,423	
1781	ALBANY SUBSTATION		19,129	
1782	ALBENI FALLS SUBSTATION		5,807	
1783	ALCOA SUBSTATION		36,284	
1784	ALFALFA SUBSTATION		5,205	
1785	ALLSTON SUBSTATION		243,680	
1786	ALVEY SUBSTATION		1,105,177	
1787	ANACONDA SUBSTATION		164,488	
1788	ASHE SUBSTATION		213,233	
1789	BALD MOUNTAIN SUBSTATION		425,844	
1790	BANDON SUBSTATION		16,566	
1791	BEAVER SUBSTATION (PGE)		210,386	
1792	BELL SUBSTATION		805,634	
1793	BENTON SUBSTATION		3,839	
1794	BETTAS ROAD SUBSTATION		213,160	
1795	BIDDLE BUTTE RADIO STATION		19,865	
1796	BIG EDDY 500 KV SWITCHYARD		345,912	
1797	BIG EDDY SUBSTATION		1,404,647	
1798	BOARDMAN SUBSTATION		105,785	
1799	BONNERS FERRY SUBSTATION		151,071	
1800	BONNEVILLE BUILDING PORTLAND		92,338	
1801	BONNEVILLE POWERHOUSE #1		343,690	
1802	BOUNDARY SUBSTATION		210,135	
1803	BPA HEADQUARTERS BUILDING		6,225	
1804	BPA SYSTEM		5,278,582	
1805	BPA SYSTEM-NON ELECTRIC PLANT& MISC		57,849	
1806	BRASADA SUBSTATION (CENTRAL ELECTRIC COOPERATIVE)	CEC	187,017	
1807	BRIDGE SUBSTATION		34,676	
1808	BUCK BUTTE RADIO STATION		8,923	
1809	BUCKLEY SUBSTATION		294,541	
1810	CALPINE SUBSTATION	CPN	432,496	
1811	CAPTAIN JACK SUBSTATION		2,045,164	
1812	CARLTON SUBSTATION		9,310	
1813	CASCADE STEEL SUBSTATION	MWL	7,187	
1814	CELILO DC CONVERTER STATION		6,190,761	
1815	CENTRAL FERRY SUBSTATION		47,113	
1816	CHEHALIS RADIO STATION		2,057	
1817	CHEHALIS SUBSTATION		353,249	
1818	CHEMAWA SUBSTATION		65,891	
1819	CHENOWETH SUBSTATION		22,055	
1820	CHIEF JOSEPH SUBSTATION		24,770	
1821	COLUMBIA FALLS ALUMINUM COMPANY SUBSTATION		19,459	
1822	COLUMBIA FALLS SUBSTATION - 230 KV YARD		167,581	
1823	COLUMBIA SUBSTATION		67,350	
1824	COLVILLE SUBSTATION		11,883	
1825	CONDON SUBSTATION	CBEC	29,512	
1826	CONDON WIND SUBSTATION(SEAWEST)	SEAWEST	283,503	
1827	CONKELLEY SUBSTATION		103,189	
1828	CONNELL SUBSTATION	BPA/FPUD	14,474	
1829	COSMOPOLIS SUBSTATION		69,807	
1830	COVINGTON SUBSTATION		213,655	
1831	COWLITZ SUBSTATION		32,603	
1832	COYOTE SPRINGS SUBSTATION	PGE	22,177	
1833	CRESTON SUBSTATION(BPA)	BPA/IPL	144,561	

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A	B	C	D	E
1834	CULDESAC RADIO STATION			533
1835	CUSTER SUBSTATION			302,999
1836	DE MOSS SUBSTATION(BPA)			619,435
1837	DEER PARK SUBSTATION	BPA/IPL/AVA		3,886
1838	DITTMER BPA SYSTEM CONTROL CENTER			82,769,342
1839	DRAIN SUBSTATION			16,206
1840	DRISCOLL SUBSTATION			46,177
1841	DRUMMOND SUBSTATION	BPA/FREC		319,894
1842	DWORSHAK POWERHOUSE			130,599
1843	DWORSHAK SUBSTATION			601,609
1844	EAST OMAK SUBSTATION			164,065
1845	EASTERN CONTROL CENTER			3,697
1846	EASTSIDE SYSTEM CONTROL CENTER(PSE)	PSE		8,768
1847	ECHO LAKE SUBSTATION			127,022
1848	EUGENE C. STARR COMPLEX			31,743
1849	EUGENE SUBSTATION			75,533
1850	FAIRMOUNT SUBSTATION			243,792
1851	FAIRVIEW SUBSTATION(BPA)			153,134
1852	FIDALGO SUBSTATION			6,872
1853	FLATHEAD SUBSTATION(BPA & FLATHEAD ELEC)	BPA/FEC		270,109
1854	FOREST GROVE SUBSTATION	BPA/FORG		112,995
1855	FORT ROCK COMPENSATION STATION			1,957,987
1856	FORT ROCK SUBSTATION (MIDSTATE ELECTRIC COOP)	MSEC		27,484
1857	FOSSIL SUBSTATION			68,698
1858	FRANKLIN SUBSTATION	BPA/FPUD		201,996
1859	FREEWATER SUBSTATION(BPA)	BPA/CMF		9,568
1860	GARRISON SUBSTATION			3,210,930
1861	GOSHEN SUBSTATION(UTAH POWER & LIGHT)	BPA/PAC-ID		338,245
1862	GRAND COULEE 115 KV SWITCHYARD			869,968
1863	GRAND COULEE 230 KV SWITCHYARD			709,551
1864	GRAND COULEE 500 KV SWITCHYARD			167,375
1865	GRAND COULEE RADIO STATION			208,028
1866	GRAND COULEE SUBSTATION	GPUD		93,082
1867	GRANDVIEW SUBSTATION	BPA/BREA		13,048
1868	GRIZZLY SUBSTATION			4,039
1869	HANFORD SUBSTATION			1,016,615
1870	HAPPY CAMP RADIO STATION(PG&E)	PG&E		44,805
1871	HARNEY SUBSTATION(BPA)			142,960
1872	HARRISBURG SUBSTATION			21,040
1873	HARVALUM SUBSTATION			87,668
1874	HATWAI SUBSTATION			563,984
1875	HAY CANYON SUBSTATION (IBERDOLA)	IBER		52,792
1876	HEYBURN SUBSTATION			312,548
1877	HILLTOP SUBSTATION	BPA/NVE		30,653
1878	HOOD RIVER SUBSTATION			4,519
1879	HOOPER SPRINGS SUBSTATION			6,178
1880	HORN BUTTE SUBSTATION (INVENERGY WIND)	INVER		245,607
1881	HORSE HEAVEN SUBSTATION			135,366
1882	HOT SPRINGS SUBSTATION			615,847
1883	HUNGRY HORSE POWERHOUSE			468,842
1884	IONA BUTTE RADIO STATION			2,590
1885	JOHN DAY SUBSTATION			781,170
1886	JONES CANYON SUBSTATION			568,665
1887	KALISPELL SUBSTATION(BPA)			272,479
1888	KEELER SUBSTATION			45,264
1889	KENNEWICK RADIO STATION			3,749
1890	KITSAP SUBSTATION			112,892
1891	LA GRANDE SUBSTATION			69,987
1892	LA PINE SUBSTATION			107,653
1893	LANCASTER SUBSTATION(BPA)			181,691
1894	LANE SUBSTATION			60,295
1895	LEBANON SUBSTATION			81,133
1896	LEXINGTON SUBSTATION			427,143
1897	LIBBY SUBSTATION(BPA)			25,470
1898	LITTLE GOOSE POWERHOUSE			26,862
1899	LITTLE GOOSE SUBSTATION			1,447,540
1900	LONGVIEW SUBSTATION			472,536
1901	LOOKOUT POINT SUBSTATION			62,551
1902	LOPEZ ISLAND SUBSTATION(BPA)			6,079
1903	LOST RIVER SUBSTATION	BPA/LREC		9,581
1904	LOWER GRANITE SUBSTATION			413,978
1905	LOWER MONUMENTAL SUBSTATION			799,028
1906	MACKS INN SUBSTATION	FREC		8,757
1907	MALIN MAINTENANCE HEADQUARTERS			18,700
1908	MALIN SUBSTATION	BPA/PAC		98,892
1909	MAPLE VALLEY SUBSTATION			106,908
1910	MARION SUBSTATION			51,653
1911	MARTIN CREEK SUBSTATION			42,765
1912	MAUPIN SUBSTATION			50,782
1913	MCLOUGHLIN SUBSTATION	PGE		77,459
1914	MCMINNVILLE SUBSTATION	BPA/MWL		10,910
1915	MCNARY SUBSTATION			573,262
1916	MIDWAY SUBSTATION(BPA)			105,155
1917	MONMOUTH SUBSTATION			3,517

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A	B	C	D	E
1918	MONROE SUBSTATION	1,103,987		
1919	MOXEE SUBSTATION	36,140		
1920	MT. HEBO RADIO STATION	147		
1921	MUNRO BPA SYSTEM CONTROL CENTER	17,016,843		
1922	MURRAY SUBSTATION	20,791		
1923	NAPAVINE SUBSTATION	170,420		
1924	NASELLE SUBSTATION	188,956		
1925	NINE CANYON SUBSTATION (BENTON PUD)	209,461	BPUD	
1926	NINE MILE SUBSTATION (FPLE)	266,939	FPLE	
1927	NORTH BONNEVILLE SUBSTATION	241,494	BPA/SKPUD	
1928	NOXON CONSTRUCTION SUBSTATION	982	AVA	
1929	OLYMPIA SUBSTATION	54,947		
1930	OREGON CITY SUBSTATION	28,997		
1931	OSTRANDER SUBSTATION	58,665		
1932	PALISADES POWERHOUSE	31,408		
1933	PAUL SUBSTATION	231,318		
1934	PEARL SUBSTATION	144,115		
1935	PLUM RADIO STATION	60,316		
1936	PONDEROSA SUBSTATION(BPA)	153,679		
1937	PORT ANGELES SUBSTATION(BPA)	307,221		
1938	RATTLESNAKE SUBSTATION(MPC)	93,655	NWE	
1939	RAVER SUBSTATION	155,578		
1940	RAYMOND SUBSTATION	73,048		
1941	RED MOUNTAIN SUBSTATION	353,542		
1942	REDMOND SUBSTATION(BPA)	145,276		
1943	REEDSPORT SUBSTATION (BPA)	347,724		
1944	ROCK CREEK SUBSTATION	167,443		
1945	ROCKY REACH SWITCHYARD	10,008		
1946	ROGUE SUBSTATION	454,162		
1947	ROSS AMPERE BUILDING	36,338		
1948	ROSS SUBSTATION	726,201		
1949	ROUND VALLEY SUBSTATION	9,332		
1950	ROUNDUP SUBSTATION	103,349		
1951	SACAJAWEA SUBSTATION	470,538		
1952	SAND CREEK SUBSTATION	10,972		
1953	SAND SPRING COMPENSATION STATION	2,234,517		
1954	SANDPOINT SUBSTATION(BPA)	11,082		
1955	SANTIAM SUBSTATION	42,441		
1956	SAPPHO SUBSTATION	4,868		
1957	SATSOP PARK SUBSTATION (GHPUD)	10,920	GHPUD	
1958	SATSOP SUBSTATION(BPA)	108,841		
1959	SCHULTZ SUBSTATION	137,683		
1960	SEDRO WOOLLEY SUBSTATION	25,481	PSE	
1961	SHANO SUBSTATION	4,255	BBEC	
1962	SHELTON SUBSTATION	216,256		
1963	SICKLER SUBSTATION	272,732		
1964	SIFTON SUBSTATION	94,714		
1965	SILVER CREEK SUBSTATION	235,115		
1966	SKYROCKET RADIO STATION	8,902		
1967	SLATT SUBSTATION	381,029		
1968	SNOHOMISH SUBSTATION	723,586		
1969	SNO-KING SUBSTATION	242,858		
1970	SOUTH TACOMA SUBSTATION	187,314		
1971	SPAR CANYON SUBSTATION	8,749	SREC	
1972	SPRING CREEK SUBSTATION	34,581		
1973	ST. JOHNS SUBSTATION	34,628		
1974	STEILACOOM SUBSTATION	2,911		
1975	SUMMER LAKE SUBSTATION	35,875		
1976	SWAN VALLEY RADIO STATION	8,904		
1977	SWAN VALLEY SUBSTATION	274,746		
1978	SYCAN COMPENSATION STATION	1,197,723		
1979	SYSTEM WIDE	778,496		
1980	TACOMA RADIO STATION	15,376		
1981	TACOMA SUBSTATION	147,863		
1982	TAFT SUBSTATION	81,769		
1983	TAHKENITCH SUBSTATION	136,715		
1984	TARGHEE SUBSTATION	12,526	BPA/FREC	
1985	TEAKEAN BUTTE RADIO STATION	66,706		
1986	TETON SUBSTATION	364,191		
1987	THE DALLES SUBSTATION	289,742	BPA/NWPUD/WEC	
1988	TILLAMOOK SUBSTATION	25,845		
1989	TINCUP SUBSTATION	147,498	LVE	
1990	TOLEDO SUBSTATION	299,940		
1991	TROUTDALE SUBSTATION(BPA)	66,253		
1992	TUCANNON RIVER SUBSTATION	209,349		
1993	UNITY SUBSTATION(BPA)	8,457	BPA/UEC	
1994	USK SUBSTATION(BPA)	308,498		
1995	VALHALLA SUBSTATION	715,402	BPA/CHPD	
1996	VANSYCLE RIDGE WIND GENERATION FACILITY	68,676		
1997	VANTAGE SUBSTATION	948,911		
1998	WALLA WALLA SUBSTATION(BPA)	345,896		
1999	WARNER SUBSTATION	15,965		
2000	WAUTOMA SUBSTATION	610,929		
2001	WENDSON SUBSTATION	303,201		

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	A	B	C	D	E
2002	WEYERHAEUSER INDUSTRIAL WAY WEYCO NO 1 SUBSTATION (COWLITZ		8,630		
2003	WHITE BLUFFS SUBSTATION		205,980		
2004	WHITE CREEK SUBSTATION (KPUD)	KPUD	436,404		
2005	WILLIS SUBSTATION (KPUD)	KPUD	353,448		
2006	WINE COUNTRY SUBSTATION	BPA/PAC	162,189		
2007	Total Ancillary Service		<u><u>164,585,782</u></u>		
*** FERC Account 353(1) Control, 391(2.2) Hardware, 391(3.2) Software, and 397(104,108) SCADA Communications					

General Plant Facilities

General Plant	Owner	Investment (\$)
2008		51,922
2009		42,118
2010		1,153,729
2011		366,943
2012		417,035
2013	USCE	167,336
2014		3,992
2015		855,859
2016		361,724
2017		9,317
2018		109,518
2019		1,805,280
2020		844,250
2021		4,946,545
2022		218,498
2023		1,813,502
2024		38,647
2025		2,409,638
2026		6,405,895
2027		155,791
2028		375,664
2029		1,318,867
2030		20,113
2031		3,508,698
2032		75,521
2033		719,357
2034	PGE	85,273
2035		6,902,860
2036		5,560,551
2037		6,324,973
2038		6,245,133
2039		1,396,703
2040		3,760,858
2041		10,839
2042		89,534
2043		503,348
2044		15,180
2045		495,962
2046		165,189
2047		67,909
2048		302,746
2049		3,069,584
2050		3,235,609
2051		63,155
2052		29,191
2053		142,017
2054		914,587
2055		457,648
2056		203,529
2057		548,715
2058		(5,942)
2059		55,063
2060		53,864
2061		3,513
2062		2,867,970
2063		94,536
2064		19,961,246
2065		144,773
2066		473,732
2067		113,432,731
2068		58,502
2069	CEC	606,534
2070		271,662
2071		36,126
2072	ELM	44,058

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A	B	C	D	E
2073	BUCK BUTTE RADIO STATION	1,598,343		
2074	BUCKLEY SUBSTATION	1,860,831		
2075	BURLEY MAINTENANCE HEADQUARTERS	57,779		
2076	BURNS RADIO STATION	129,557		
2077	CABBAGE HILL RADIO STATION	84,401		
2078	CALPINE SUBSTATION	440,879		
2079	CAPE BLANCO RADIO STATION (BPA)	902,315		
2080	CAPITOL PEAK RADIO STATION(BPA)	582,963		
2081	CAPTAIN JACK SUBSTATION	3,103,708		
2082	CARDWELL SUBSTATION	213,502		
2083	CARLTON SUBSTATION	396,407		
2084	CASCADE STEEL SUBSTATION	28,301		
2085	CATHLAMET SUBSTATION	17,960		
2086	CELILO DC CONVERTER STATION	5,532,343		
2087	CELILO MAINTENANCE HEADQUARTERS	21,287		
2088	CENTRAL FERRY SUBSTATION	273,669		
2089	CENTRALIA SUBSTATION	31,477		
2090	CHEHALIS MAINTENANCE HEADQUARTERS	79,987		
2091	CHEHALIS RADIO STATION	128,615		
2092	CHEHALIS SUBSTATION	1,790,141		
2093	CHEMAWA MAINTENANCE HEADQUARTERS	93,505		
2094	CHEMAWA SUBSTATION	6,921,545		
2095	CHENOWETH SUBSTATION	305,373		
2096	CHIEF JOSEPH POWERHOUSE	508,107		
2097	CHIEF JOSEPH SUBSTATION	3,112,832		
2098	CLATSOP SUBSTATION	10,265		
2099	CLINTON SUBSTATION (SOLD)	1,193	MEC	
2100	COBURG RADIO STATION	225,732		
2101	COBURG SUBSTATION	140,618		
2102	COLSTRIP SES	41,676		
2103	COLSTRIP SUBSTATION	165,332		
2104	COLUMBIA FALLS SUBSTATION -- 115 YARD	558,664		
2105	COLUMBIA FALLS SUBSTATION - 230 KV YARD	963,012		
2106	COLUMBIA FALLS-KALISPELL NO 1	31,810		
2107	COLUMBIA GENERATING STATION SUBSTATION (ENERGY NORTHWEST)	3,701,030		
2108	COLUMBIA GENERATING STATION-ASHE FIBER SYSTEM	126,744		
2109	COLUMBIA SUBSTATION	2,776,947		
2110	COLVILLE SUBSTATION	185,792		
2111	CONDON WIND SUBSTATION(SEAWEST)	17,366		
2112	CONKELLEY SUBSTATION	1,387,183		
2113	COSMOPOLIS SUBSTATION	45,835		
2114	COVINGTON MAINTENANCE HEADQUARTERS	785,206		
2115	COVINGTON SUBSTATION	3,984,829		
2116	COVINGTON-BELL FIBER SYSTEM	18,377,621		
2117	COVINGTON-BETTAS ROAD NO 1	402,607		
2118	COVINGTON-MAPLE VALLEY FIBER SYSTEM	2,941,491		
2119	COVINGTON-MUNRO FIBER SYSTEM(INACTIVE SEE NOTES)	1,383,291		
2120	COWLITZ SUBSTATION	219,418		
2121	COYOTE HILLS RADIO STATION	1,373,033		
2122	COYOTE SPRINGS SUBSTATION	565,887		
2123	CRESTON SUBSTATION(BPA)	513,083		
2124	CULDESAC RADIO STATION	12,970		
2125	CUSICK SUBSTATION	2,103,595		
2126	CUSTER MAINTENANCE HEADQUARTERS	724,085		
2127	CUSTER SUBSTATION	2,564,365		
2128	CUSTER-INGLEDOW NO 1	190,843		
2129	CYRUS NOE RADIO STATION	31,091		
2130	DAVENPORT RADIO STATION	85,991		
2131	DE MOSS SUBSTATION(BPA)	454,559		
2132	DECATUR SUBSTATION	134,517		
2133	DEL RIO RADIO STATION	964,598		
2134	DEVILS MOUNTAIN RADIO STATION	316,863		
2135	DITTMER BPA SYSTEM CONTROL CENTER	35,016,079		
2136	DIXON SUBSTATION	330,194		
2137	DIXONVILLE SUBSTATION	164,947		
2138	DOUGLAS SWITCHYARD	68,042		
2139	DRAIN SUBSTATION	21,211		
2140	DRISCOLL SUBSTATION	411,453		
2141	DRISCOLL-NASELLE NO 1	274,886		
2142	DRUMMOND SUBSTATION	130,515		
2143	DWORSHAK POWERHOUSE	56,179		
2144	DWORSHAK SUBSTATION	576,387		
2145	EAST OMAK SUBSTATION	71,149		
2146	EASTERN CONTROL CENTER	1,102,074		

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A	B	C	D	E
2147	EASTON RADIO STATION			399,978
2148	EASTSIDE SYSTEM CONTROL CENTER(PSE)	PSE		14,423
2149	ECHO LAKE SUBSTATION			2,902,521
2150	ECHO LAKE-MONROE-SNOHOMISH FIBER SYSTEM			4,908,397
2151	ELLENSBURG SUBSTATION			377,775
2152	ELLENSBURG-MOXEE NO 1			254,038
2153	ELLIS MOUNTAIN RADIO STATION			32,352
2154	EUGENE C. STARR COMPLEX			3,492,997
2155	EUGENE SUBSTATION			346,448
2156	EUGENE-ALDERWOOD NO 1			417,035
2157	FAIRMOUNT SUBSTATION			192,425
2158	FAIRVIEW SUBSTATION(BPA)			1,081,350
2159	FIDALGO SUBSTATION			434,263
2160	FIDALGO-LOPEZ ISLAND NO 5			95,100
2161	FLATHEAD SUBSTATION(BPA & FLATHEAD ELEC)	BPA/FEC		1,155,685
2162	FOLSOM CONTROL CENTER (CAL ISO)	CAISO		3,416
2163	FOREST GROVE SUBSTATION			94,094
2164	FOREST GROVE-MCMINNVILLE NO 1			6,668
2165	FOREST GROVE-TILLAMOOK NO 1			14,894
2166	FORT ROCK COMPENSATION STATION			1,127,316
2167	FORT ROCK SUBSTATION (MIDSTATE ELECTRIC COOP)	MSEC		163,565
2168	FOSSIL SUBSTATION			65,317
2169	FOSTER CREEK RADIO STATION			632,015
2170	FOSTER SUBSTATION			16,933
2171	FRANKLIN MAINTENANCE HEADQUARTERS			233,605
2172	FRANKLIN SUBSTATION			4,028,311
2173	FRANKLIN-MUNRO FIBER SYSTEM			16,473,753
2174	FRANZ HOLMES SUBSTATION			2,341
2175	FREDERICKSON GENERATING PLANT(FREDERICKSON POWER LP) FRED PWR			119,537
2176	FREDERICKSON GENERATION-SOUTH TACOMA FIBER SYSTEM			619,854
2177	FRENCHMAN SPRINGS SUBSTATION			766
2178	GARRISON MAINTENANCE HEADQUARTERS			158,654
2179	GARRISON SUBSTATION			5,674,996
2180	GIG HARBOR SUBSTATION			46,027
2181	GOLDENDALE SUBSTATION(BPA)			11,710
2182	GOODWIN PEAK RADIO STATION			390,889
2183	GOSHEN SUBSTATION(UTAH POWER & LIGHT)	PAC-ID		280,956
2184	GRAND COULEE 115 KV SWITCHYARD			492,953
2185	GRAND COULEE 115KV-GRAND COULEE RS FIBER SEG			249,005
2186	GRAND COULEE 230 KV SWITCHYARD			1,840,670
2187	GRAND COULEE 500 KV SWITCHYARD			1,186,023
2188	GRAND COULEE MAINTENANCE BUILDING			629,567
2189	GRAND COULEE RADIO STATION			980,297
2190	GRAND COULEE SUBSTATION			355,408
2191	GRAND COULEE THIRD POWERHOUSE			152,907
2192	GRAND COULEE-BELL NO 5			22,276
2193	GRANDVIEW SUBSTATION			38,615
2194	GRANITE MOUNTAIN RADIO STATION			920,613
2195	GRAZZINI SUBSTATION			69,978
2196	GREEN MOUNTAIN PASSIVE REPEATER SITE			18,681
2197	GREENBERRY SUBSTATION			645
2198	GRIZZLY MOUNTAIN RADIO STATION			1,629,190
2199	GRIZZLY SUBSTATION			2,593,001
2200	GROUSE PEAK RADIO STATION			375,503
2201	HAAKENSON SUBSTATION			24,891
2202	HALL RIDGE RADIO STATION			358,707
2203	HAMPTON BUTTE RADIO STATION			291,134
2204	HANFORD SUBSTATION			1,574,899
2205	HANFORD-WAUTOMA NO 1			1,770
2206	HAPPY CAMP RADIO STATION(PG&E)	PG&E		485,754
2207	HAPPY CAMP RADIO STATION(TANC)	TANC		52,708
2208	HAPPY VALLEY SUBSTATION			1,657
2209	HARNEY SUBSTATION(BPA)			195,610
2210	HARRISBURG SUBSTATION			383,612
2211	HARVALUM SUBSTATION			311,256
2212	HAT ROCK SUBSTATION			85,428
2213	HATWAI SUBSTATION			2,277,584
2214	HAUSER SUBSTATION(BPA)			9,889
2215	HAUSER-NORTH BEND MAINTENANCE HQ FIBER SYSTEM			52,648
2216	HAYDEN SUBSTATION			4,128
2217	HAYSTACK BUTTE RADIO STATION			86,253
2218	HEYBURN SUBSTATION			54,181
2219	HILLTOP SUBSTATION			27,330
2220	HOLCOMB RADIO STATION			270,971

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A	B	C	D	E
2221	HOLCOMB SUBSTATION			16,087
2222	HOOD RIVER SUBSTATION			143,515
2223	HOOD RIVER-THE DALLES NO 1			95,770
2224	HORN BUTTE TAP TO TOWER ROAD-ALKALI NO 1			7,512
2225	HORSE HEAVEN SUBSTATION			11,423
2226	HOT SPRINGS SUBSTATION			2,345,282
2227	HOT SPRINGS-GARRISON FIBER SYSTEM			9,027,301
2228	HUNGRY HORSE POWERHOUSE			554,568
2229	HUNGRY HORSE RADIO STATION			662,373
2230	ICE HARBOR POWERHOUSE			388,526
2231	IDAHO FALLS DISTRICT OFFICE AND MAINTENANCE HEADQUARTERS			4,447,679
2232	IDAHO FALLS STORAGE YARD			380,162
2233	INDIAN MOUNTAIN RADIO STATION			1,781,993
2234	INTALCO SUBSTATION			1,101,838
2235	IONA BUTTE RADIO STATION			191
2236	JOHN CURTIS SUBSTATION			68,395
2237	JOHN DAY POWERHOUSE			232,475
2238	JOHN DAY SUBSTATION			3,450,412
2239	JOHN DAY SUBSTATION - 230 YARD			971,128
2240	JONES CANYON SUBSTATION			2,480,865
2241	KAHLOTUS RADIO STATION			2,032,977
2242	KALISPELL MAINTENANCE HEADQUARTERS			7,090,084
2243	KALISPELL SUBSTATION(BPA)			2,412,918
2244	KEELER MAINTENANCE HEADQUARTERS			521,342
2245	KEELER SUBSTATION			2,505,950
2246	KEELER-ALVEY FIBER SYSTEM			8,601,493
2247	KEELER-COVINGTON FIBER SYSTEM			18,099,084
2248	KEELER-FOREST GROVE NO 1			3,269
2249	KENNEDY SUBSTATION			3,017
2250	KENNEWICK RADIO STATION			2,227,984
2251	KENNEWICK SUBSTATION(BENTON CO PUD)	BPUD		7,152
2252	KENYON MOUNTAIN RADIO STATION			309,028
2253	KITSAP SUBSTATION			1,378,780
2254	KLONDIKE SCHOOLHOUSE SUBSTATION (IBERDOLA)	IBER		130,842
2255	LA GRANDE SUBSTATION			287,374
2256	LA PINE SUBSTATION			1,340,348
2257	LAKE BAY SUBSTATION			119,816
2258	LAKE GROVE SUBSTATION			56,584
2259	LAKESIDE RADIO STATION			16,026
2260	LANCASTER SUBSTATION(BPA)			714,410
2261	LANE SUBSTATION			805,242
2262	LEBANON SUBSTATION			164
2263	LENEVE RADIO STATION			73,119
2264	LEWISTON MAINTENANCE HEADQUARTERS			158,950
2265	LEXINGTON SUBSTATION			541,475
2266	LIBBY POWERHOUSE			470,495
2267	LIBBY SUBSTATION(BPA)			1,655,208
2268	LIBBY SUBSTATION(BPA/FLATHEADELEC)	BPA/FEC		434,298
2269	LINES CREEK RADIO STATION			1,845,703
2270	LITTLE GOOSE PH-LITTLE GOOSE NO 1			(1,777)
2271	LITTLE GOOSE POWERHOUSE			600,318
2272	LITTLE GOOSE SUBSTATION			4,770,862
2273	LODHOLM SUBSTATION			132,402
2274	LONGVIEW ANNEX I			2,885
2275	LONGVIEW MAINTENANCE HEADQUARTERS			267,444
2276	LONGVIEW SUBSTATION			2,171,455
2277	LOOKOUT MOUNTAIN RADIO STATION			213,873
2278	LOOKOUT POINT SUBSTATION			17,902
2279	LOPEZ ISLAND SUBSTATION (BPA)			496,028
2280	LOPEZ SUBSTATION (OPALCO)			18,020
2281	LOST RIVER SUBSTATION			173,126
2282	LOWELL BUTTE RADIO STATION			1,855,300
2283	LOWER GRANITE POWERHOUSE			278,663
2284	LOWER GRANITE SUBSTATION			4,080,454
2285	LOWER MONUMENTAL POWERHOUSE			258,795
2286	LOWER MONUMENTAL SUBSTATION			1,760,738
2287	LOWER MONUMENTAL-HANFORD NO 1			53,475
2288	LOWER MONUMENTAL-MCNARY NO 1			7,729
2289	LYN PUMPS PUMPING PLANT			4,267
2290	LYNCH CREEK SUBSTATION			121,887

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A	B	C	D	E
2291	MACKS INN SUBSTATION			13,198
2292	MALAGA RADIO STATION			1,045,733
2293	MALIN MAINTENANCE HEADQUARTERS			5,215,428
2294	MALIN PASSIVE REPEATER S SITE			13,184
2295	MALIN SUBSTATION			3,160,339
2296	MALONEY RIDGE RADIO STATION			1,015
2297	MAPLE VALLEY SUBSTATION			3,117,451
2298	MAPLE VALLEY-SNOHOMISH FIBER SYSTEM			732,999
2299	MAPLETON SUBSTATION			60,489
2300	MARION SUBSTATION			2,223,245
2301	MARION-SANTIAM FIBER SYSTEM			1,039,832
2302	MARTIN CREEK SUBSTATION			47,778
2303	MARYS PEAK RADIO STATION			209,297
2304	MAUPIN SUBSTATION			227,947
2305	MAYFIELD POWERHOUSE			12,509
2306	MCCULLOUGH SUBSTATION			59,703
2307	MCLOUGHLIN SUBSTATION			1,454,927
2308	MCMINNVILLE SUBSTATION			240,272
2309	MCNARY MAINTENANCE HEADQUARTERS			9,171,225
2310	MCNARY POWERHOUSE			763,910
2311	MCNARY SUBSTATION			5,852,670
2312	MCNARY-COYOTE SPRINGS NO 1			1,519,037
2313	MCNARY-HORSE HEAVEN NO 1			70,204
2314	MCNARY-JOHN DAY NO 2			5,493,099
2315	MEAD SUBSTATION			4,712
2316	MEGLER RADIO STATION			211,661
2317	MERIDIAN SUBSTATION(PACIFICORP)	PAC		215,029
2318	MERRITT RADIO STATION			1,277,506
2319	METALINE RADIO STATION			2,507,970
2320	MICA PEAK RADIO STATION			1,903,108
2321	MIDWAY SUBSTATION(BPA)			2,601,417
2322	MIDWAY-MOXEE NO 1			33,830
2323	MILES CITY SUBSTATION			78,146
2324	MILLER PEAK RADIO STATION			1,839,635
2325	MILLER SUBSTATION(LAKEVIEW LIGHT & PWR)	LLP		65,777
2326	MINIDOKA POWERHOUSE			67,168
2327	MINIDOKA POWERHOUSE-MINIDOKA RADIO STATION FIBER SYSTEM			171,931
2328	MINIDOKA RADIO STATION			104,319
2329	MINT FARM SWITCHING STATION			26,482
2330	MINTER SUBSTATION (PENINSULA)	PLC		100,179
2331	MOBILE COMMUNICATIONS			409,133
2332	MONROE SUBSTATION			2,032,841
2333	MONROE-CUSTER NO 1			122,784
2334	MOXEE SUBSTATION			299,914
2335	MT SI-TANNER NO 1			2,223,299
2336	MT. EMILY RADIO STATION			65,833
2337	MT. HEBO RADIO STATION			261,985
2338	MT. SPOKANE RADIO STATION(AVISTA)	AVA		1,153,944
2339	MT. SPOKANE RADIO STATION(BPA)			201,662
2340	MUNRO BPA SYSTEM CONTROL CENTER			15,091,256
2341	MURRAY SUBSTATION			148,371
2342	NAPAVINE SUBSTATION			978,320
2343	NARROWS SUBSTATION			75,170
2344	NASELLE RIDGE RADIO STATION			874,948
2345	NASELLE SUBSTATION			188,012
2346	NASELLE-TARLETT NO 1			37,122
2347	NEWPORT SUBSTATION(INLAND POWER)	IPL		431
2348	NINE CANYON SUBSTATION (BENTON PUD)	BPUD		781,138
2349	NORTH BEND MAINTENANCE HEADQUARTERS			2,487,737
2350	NORTH BEND RADIO STATION			844,779
2351	NORTH BONNEVILLE SUBSTATION			976,844
2352	NORTH BONNEVILLE-MIDWAY NO 1			3,745
2353	NORTH BONNEVILLE-TROUTDALE NO 2			281,830
2354	NOTI RADIO STATION			497,788
2355	NOXON CONSTRUCTION SUBSTATION			344,199
2356	NOXON RADIO STATION			1,859,349
2357	NOXON-KALISPELL FIBER SYSTEM			11,538,640
2358	NOXON-LIBBY NO 1			354,839
2359	NOXON-TAFT FIBER SYSTEM			5,718,682

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A	B	C	D	E
2360	ODELL BUTTE RADIO STATION	970,199		
2361	OHOP SUBSTATION	126,215		
2362	OLYMPIA MAINTENANCE HEADQUARTERS	6,562,207		
2363	OLYMPIA SUBSTATION	2,322,488		
2364	OLYMPIA-ABERDEEN FIBER SYSTEM	989,884		
2365	OLYMPIA-GRAND COULEE NO 1	898,339		
2366	OLYMPIA-KITSAP NO 3 (SEE NOTES)	66,850		
2367	OLYMPIA-PORT ANGELES FIBER SYSTEM	6,850,457		
2368	OLYMPIA-ST CLAIR NO 1	1,318,835		
2369	OREGON CITY SUBSTATION	78,174		
2370	OSTRANDER SUBSTATION	7,176,698		
2371	PACIFIC GAS AND ELECTRIC OPERATIONS CENTER	4,109		
2372	PALISADES POWERHOUSE	469,174		
2373	PASCO MAINTENANCE HEADQUARTERS	196,041		
2374	PATRICKS KNOB RADIO STATION	1,062,127		
2375	PAUL SUBSTATION	2,435,520		
2376	PBL ROSS EMERGENCY SCHEDULINGCENTER (ESC)	57,571		
2377	PEARL SUBSTATION	1,875,025		
2378	PEARL-TROUTDALE FIBER SYSTEM	4,093,153		
2379	PENDLETON SUBSTATION	17,757		
2380	PILOT BUTTE-LA PINE NO 1	124,765		
2381	PINE MOUNTAIN RADIO STATION	1,646,561		
2382	PLUM RADIO STATION	35,860		
2383	POMEROY RADIO STATION	2,650,010		
2384	POMEROY SUBSTATION(BPA)	4,839		
2385	PONDEROSA SUBSTATION(BPA)	1,269,026		
2386	PORT ANGELES SUBSTATION(BPA)	139,450		
2387	PORT TOWNSEND SUBSTATION	40,728		
2388	PORTLAND INTERNATIONAL AIRPORT HANGAR	1,160,192		
2389	POTHOLES SUBSTATION	401,876		
2390	PROSPECT HILL RADIO STATION	1,542,601		
2391	PURDY SUBSTATION	46,473		
2392	RAINIER RADIO STATION	868,685		
2393	RAINIER SUBSTATION	3,384		
2394	RATTLESNAKE SUBSTATION(MPC)	140,996	NWE	
2395	RAVER SUBSTATION	4,827,544		
2396	RAVER-ECHO LAKE FIBER SYSTEM	7,294,724		
2397	RAYMOND HILL RADIO STATION	491,694		
2398	RAYMOND RADIO STATION	238,453		
2399	RAYMOND SUBSTATION	21,198		
2400	RED MOUNTAIN SUB (BENTON REA)- NEVER BUILT-OBS	391,394	BREA	
2401	RED MOUNTAIN SUBSTATION	535,588		
2402	REDMOND BPA HANGAR SITE	1,348,223		
2403	REDMOND MAINTENANCE HEADQUARTERS	3,092,670		
2404	REDMOND SUBSTATION(BPA)	1,785,134		
2405	REEDSPORT SUBSTATION (BPA)	189,066		
2406	REEDSPORT-FAIRVIEW NO 1	314,896		
2407	REEDSPORT-TAHKENITCH FIBER SYSTEM	193,800		
2408	RESTON SUBSTATION	153,458		
2409	RICHLAND SUBSTATION	190,068		
2410	RIVER ROAD GENERATION PLANT SUBSTATION	66,035		
2411	ROCK CREEK SUBSTATION	644,156		
2412	ROCK CREEK-JOHN DAY NO 1	1,994		
2413	ROCKY RADIO STATION [RET]	12,681		
2414	ROCKY REACH SWITCHYARD	85,702		
2415	ROCKY RIDGE RADIO STATION	1,870,214		
2416	ROGUE SUBSTATION	1,020,790		
2417	ROOSEVELT RADIO STATION	635,888		
2418	ROSS AMPERE BUILDING	8,445,670		
2419	ROSS COMPLEX	58,077,687		
2420	ROSS CONSTRUCTION AND SERVICES BUILDING	9,348,266		
2421	ROSS EHV LABORATORY	603,409		
2422	ROSS RADIO STATION	42,780		
2423	ROSS SUBSTATION	561,779		
2424	ROSS WAREHOUSE	5,737,739		
2425	ROSS-FRANKLIN FIBER SYSTEM	20,882,801		
2426	ROSS-MALIN FIBER SYSTEM	20,193,947		
2427	ROSS-RIVERGATE NO 1	98,087		
2428	ROUND VALLEY SUBSTATION	133,669		
2429	ROUNDUP SUBSTATION	128,165		
2430	RUBY MOUNTAIN	2,520,127		
2431	SACAJAWEA SUBSTATION	1,070,143		
2432	SACAJAWEA TAP TO LOWER MONUMENTAL-MCNARY NO 1	8,077,555		
2433	SACHEEN SUBSTATION	641,609		

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A	B	C	D	E
2434	SALEM PASSIVE REPEATER SITE			10,266
2435	SALEM SUBSTATION (SALEM ELEC)			650,480
2436	SAND DUNES SUBSTATION			58,891
2437	SAND SPRING COMPENSATION STATION			1,258,944
2438	SANDPOINT SUBSTATION(BPA)			22,550
2439	SANTIAM SUBSTATION			1,867,192
2440	SANTIAM-BETHEL NO 1			206,955
2441	SATSOP SUBSTATION(BPA)			1,396,259
2442	SAWTELL RADIO STATION			210,327
2443	SCHULTZ MAINTENANCE HEADQUARTERS			2,704,238
2444	SCHULTZ SUBSTATION			2,536,563
2445	SCHULTZ-ECHO LAKE NO 1			1,237,435
2446	SCHULTZ-WAUTOMA NO 1			18,029,963
2447	SCOTT MOUNTAIN RADIO STATION			288,852
2448	SEATTLE RADIO STATION			3,908
2449	SHANIKO RADIO STATION			959,276
2450	SHANO SUBSTATION			13,189
2451	SHELTON SUBSTATION			1,710,128
2452	SHELTON-KITSAP NO 2			399,843
2453	SHELTON-SOUTH BREMERTON NO 1			399,843
2454	SICKLER MAINTENANCE HEADQUARTERS			1,069,891
2455	SICKLER SUBSTATION			2,890,834
2456	SICKLER-SCHULTZ NO 1			311,816
2457	SIFTON SUBSTATION			1,309,745
2458	SILVER CREEK SUBSTATION			637,970
2459	SILVERADO SUBSTATION (CLALLAM CO. PUD)	CMPUD		875
2460	SKYROCKET RADIO STATION			849,895
2461	SLATT SUBSTATION			4,910,580
2462	SNOHOMISH CO. PUD DISPATCH CENTER			8,094
2463	SNOHOMISH MAINTENANCE HEADQUARTERS			1,648,879
2464	SNOHOMISH SUBSTATION			3,512,257
2465	SNO-KING SUBSTATION			2,253,355
2466	SNO-KING-MAPLE VALLEY NO. 2			9,690
2467	SNO-KING-SNOHOMISH FIBER SYSTEM (DO NOT USE, SEE NOTES)			2,949,281
2468	SOUTH MOUNTAIN RADIO STATION			297,568
2469	SOUTH TACOMA SUBSTATION			519,457
2470	SPAR CANYON SUBSTATION			136,951
2471	SPOKANE HANGAR			1,705,354
2472	SPRING CREEK SUBSTATION			161,800
2473	SPRING CREEK-WINE COUNTRY NO 1			50,782
2474	SQUAK MOUNTAIN RADIO STATION			63,709
2475	ST. JOHNS SUBSTATION			396,635
2476	STAMPEDE PASS RADIO STATION			145,800
2477	STEILACOOM SUBSTATION			97,941
2478	SUBSTATION X			26,723
2479	SUMMER LAKE HOUSING			143,243
2480	SUMMER LAKE SUBSTATION			1,155,782
2481	SUNNYSIDE RADIO STATION			756,057
2482	SURPRISE LAKE SUBSTATION			80,458
2483	SWAN LAKE POINT RADIO STATION			64,229
2484	SWAN VALLEY PASSIVE REPEATER SITE			152,951
2485	SWAN VALLEY RADIO STATION			433,293
2486	SWAN VALLEY SUBSTATION			675,714
2487	SWAN VALLEY-SWAN VALLEY RS FIBER SYSTEM			192,512
2488	SWAN VALLEY-TETON NO 1			94,591
2489	SWAN VALLEY-TETON NO 2			94,531
2490	SYCAN COMPENSATION STATION			677,672
2491	SYSTEM WIDE			37,741,477
2492	TACOMA RADIO STATION			2,129,420
2493	TACOMA SUBSTATION			1,457,379
2494	TAFT PASSIVE REPEATER SITE			348,619
2495	TAFT SUBSTATION			3,347,837
2496	TAHKENITCH SUBSTATION			174,077
2497	TARGHEE SUBSTATION			138,873
2498	TARKIO SUBSTATION (SOLD)	MEC		2,772
2499	TEAKEAN BUTTE RADIO STATION			1,764,594
2500	TEANAWAY RADIO STATION			295,581
2501	TETON SUBSTATION			86,163
2502	THE DALLES FISHWAY HYDRO PLANT			16,496
2503	THE DALLES MAINTENANCE HEADQUARTERS			4,601,552
2504	THE DALLES OPERATING DISTRICTHEADQUARTERS			26,595
2505	THE DALLES POWERHOUSE			282,402
2506	THE DALLES SUBSTATION			249,278
2507	THOMPSON FALLS RADIO STATION			471,935

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A	B	C	D	E
2508 TILLAMOOK SUBSTATION		410,438		
2509 TOLEDO SUBSTATION		106,157		
2510 TRENTWOOD SUBSTATION		1,915		
2511 TROUTDALE SUBSTATION(BPA)		3,600,834		
2512 TROUTDALE SUBSTATION(PACIFICORP)	PAC	151,373		
2513 TUCANNON RIVER SUBSTATION		1,094,662		
2514 TUNK MOUNTAIN RADIO STATION		1,381,589		
2515 TWO PARK PLACE		25,339		
2516 TYEE SUBSTATION		88,101		
2517 UNITY SUBSTATION(BPA)		266,885		
2518 USK SUBSTATION(BPA)		496,200		
2519 VALHALLA SUBSTATION		869,714		
2520 VANTAGE SUBSTATION		972,896		
2521 VAUGHN SUBSTATION		113,732		
2522 WALKER MOUNTAIN RADIO STATION		1,874,997		
2523 WALLA WALLA SUBSTATION(BPA)		764,283		
2524 WALLA WALLA SUBSTATION(PACIFICORP)	PAC	16,384		
2525 WALLA WALLA-WALLA WALLA (PACW) NO 1	PAC	163,462		
2526 WARDEN POLE METERING POINT		6,664		
2527 WARNER SUBSTATION		288,466		
2528 WASCO RADIO STATION		916,873		
2529 WATERVILLE RADIO STATION		830,293		
2530 WAUNA PAPER MILL		9,063		
2531 WAUTOMA SUBSTATION		2,962,734		
2532 WAUTOMA-COLUMBIA FIBER SYSTEM		5,084,288		
2533 WAUTOMA-OSTRANDER NO 1		19,979		
2534 WEISER SUBSTATION		7,809		
2535 WENDSON SUBSTATION		565,011		
2536 WENDSON-TAHKENITCH NO 2		514,470		
2537 WEST PORTLAND RADIO STATION		305,888		
2538 WESTSIDE SUBSTATION(BPA)		21,113		
2539 WHISKEY RIDGE RADIO STATION		18,065		
2540 WHITE BLUFFS SUBSTATION		930,858		
2541 WHITE CREEK SUBSTATION (KPUD)	KPUD	29,645		
2542 WILSON RIVER SUBSTATION		5,855		
2543 WINDY DEVIL RADIO STATION		82,197		
2544 WINE COUNTRY SUBSTATION	BPA/PAC	732,852		
2545 WOLF MOUNTAIN RADIO STATION		1,627,118		
2546 Total General Plant		<u>942,873,218</u>		

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Appendix B
BP-18 Rate Case Initial Proposal
Multi-Segmented Facilities Summary

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Appendix B
BP-18 Rate Case Initial Proposal Multi-Segmented Facilities Summary

A	B	C	D	E
Transmission Lines	Investment (\$)	O&M (\$)	Multi %	Segment
1 BUCKLEY-GRIZZLY NO 1	7,514,539	10,026	43%	Network
2 BUCKLEY-GRIZZLY NO 1	9,961,133	13,290	57%	Southern Intertie
3 BUCKLEY-GRIZZLY NO 1	17,475,672	23,316	100%	Total
4 BUCKLEY-MARION NO 1	21,428,265	16,320	50%	Network
5 BUCKLEY-MARION NO 1	21,428,265	16,320	50%	Southern Intertie
6 BUCKLEY-MARION NO 1	42,856,531	32,641	100%	Total
7 COUGAR-THURSTON NO 1	135,511	1,654	5%	Generation Integration
8 COUGAR-THURSTON NO 1	2,365,686	28,877	95%	Network
9 COUGAR-THURSTON NO 1	2,501,196	30,531	100%	Total
10 COYOTE SPRINGS-SLATT NO 1	2,352,112	7,298	88%	Network
11 COYOTE SPRINGS-SLATT NO 1	328,931	1,021	12%	Southern Intertie
12 COYOTE SPRINGS-SLATT NO 1	2,681,042	8,319	100%	Total
13 GREEN PETER-LEBANON NO 1	357,224	4,987	35%	Generation Integration
14 GREEN PETER-LEBANON NO 1	666,893	9,310	65%	Network
15 GREEN PETER-LEBANON NO 1	1,024,116	14,297	100%	Total
16 GRIZZLY-SUMMER LAKE NO 1	14,696,081	14,584	43%	Network
17 GRIZZLY-SUMMER LAKE NO 1	19,480,851	19,332	57%	Southern Intertie
18 GRIZZLY-SUMMER LAKE NO 1	34,176,932	33,916	100%	Total
19 Grouse Creek-Tecoma Transmission Lines & Substation	1,919,106	0	94%	Network
20 Grouse Creek-Tecoma Transmission Lines & Substation	121,332	0	6%	Utility Delivery
21 Grouse Creek-Tecoma Transmission Lines & Substation	2,040,437	0	100%	Total
22 HILLS CREEK-LOOKOUT POINT NO 1	308,035	5,539	19%	Generation Integration
23 HILLS CREEK-LOOKOUT POINT NO 1	1,286,802	23,141	81%	Network
24 HILLS CREEK-LOOKOUT POINT NO 1	1,594,837	28,680	100%	Total
25 ICE HARBOR-FRANKLIN NO 2	15,726	38	3%	Generation Integration
26 ICE HARBOR-FRANKLIN NO 2	554,825	1,354	97%	Network
27 ICE HARBOR-FRANKLIN NO 2	570,551	1,392	100%	Total
28 ICE HARBOR-FRANKLIN NO 3	133,963	119	9%	Generation Integration
29 ICE HARBOR-FRANKLIN NO 3	1,331,565	1,181	91%	Network
30 ICE HARBOR-FRANKLIN NO 3	1,465,528	1,300	100%	Total
31 MARION-ALVEY NO 1	4,456,110	13,812	50%	Network
32 MARION-ALVEY NO 1	4,456,110	13,812	50%	Southern Intertie
33 MARION-ALVEY NO 1	8,912,221	27,624	100%	Total
34 SLATT-JOHN DAY NO 1	4,797,158	23,959	93%	Network
35 SLATT-JOHN DAY NO 1	361,130	1,804	7%	Southern Intertie
36 SLATT-JOHN DAY NO 1	5,158,288	25,762	100%	Total

Appendix B
BP-18 Rate Case Initial Proposal Multi-Segmented Facilities Summary

	A	B	C	D	E
	Transmission Lines	Investment (\$)	O&M (\$)	Multi %	Segment
37	ACTON SUBSTATION	192,185	11,121	81%	Network
38	ACTON SUBSTATION	43,859	2,538	19%	Utility Delivery
39	ACTON SUBSTATION	236,044	13,659	100%	Total
40	ADDY SUBSTATION	10,446,952	97,646	90%	Network
41	ADDY SUBSTATION	1,217,569	11,380	10%	Unsegmented
42	ADDY SUBSTATION	11,664,520	109,026	100%	Total
43	ALBANY SUBSTATION	12,186,131	131,445	93%	Network
44	ALBANY SUBSTATION	885,735	9,554	7%	Utility Delivery
45	ALBANY SUBSTATION	13,071,866	140,998	100%	Total
46	ALBENI FALLS SUBSTATION	365,644	6,296	25%	Generation Integration
47	ALBENI FALLS SUBSTATION	1,096,932	18,887	75%	Network
48	ALBENI FALLS SUBSTATION	1,462,575	25,183	100%	Total
49	ALCOA SUBSTATION	9,359,588	216,730	95%	Network
50	ALCOA SUBSTATION	479,123	11,095	5%	Unsegmented
51	ALCOA SUBSTATION	9,838,711	227,825	100%	Total
52	ALDERWOOD SUBSTATION	474,826	24,391	57%	Network
53	ALDERWOOD SUBSTATION	354,390	18,204	43%	Unsegmented
54	ALDERWOOD SUBSTATION	829,217	42,595	100%	Total
55	ALVEY SUBSTATION	40,512,940	256,711	84%	Network
56	ALVEY SUBSTATION	7,677,944	48,651	16%	Southern Intertie
57	ALVEY SUBSTATION	48,190,884	305,363	100%	Total
58	ASHE SUBSTATION	3,800,600	41,875	8%	Generation Integration
59	ASHE SUBSTATION	41,582,552	458,154	92%	Network
60	ASHE SUBSTATION	45,383,152	500,029	100%	Total
61	BANDON SUBSTATION	4,654,717	69,272	95%	Network
62	BANDON SUBSTATION	227,939	3,392	5%	Utility Delivery
63	BANDON SUBSTATION	4,882,656	72,664	100%	Total
64	BIG EDDY SUBSTATION	4,012,332	37,377	5%	Generation Integration
65	BIG EDDY SUBSTATION	11,115,564	103,548	15%	Network
66	BIG EDDY SUBSTATION	61,238,549	570,472	80%	Southern Intertie
67	BIG EDDY SUBSTATION	76,366,445	711,398	100%	Total
68	BONNERS FERRY SUBSTATION	1,974,212	39,800	86%	Network
69	BONNERS FERRY SUBSTATION	332,623	6,706	14%	Utility Delivery
70	BONNERS FERRY SUBSTATION	2,306,835	46,506	100%	Total
71	BUCKLEY SUBSTATION	3,636,848	37,205	36%	Network
72	BUCKLEY SUBSTATION	6,512,496	66,623	64%	Southern Intertie
73	BUCKLEY SUBSTATION	10,149,344	103,829	100%	Total
74	BURBANK SUBSTATION	426,473	9,901	69%	Network
75	BURBANK SUBSTATION	114,552	2,659	18%	Utility Delivery
76	BURBANK SUBSTATION	78,480	1,822	13%	Unsegmented
77	BURBANK SUBSTATION	619,504	14,382	100%	Total
78	BURNT WOODS SUBSTATION	178,451	9,932	56%	Network
79	BURNT WOODS SUBSTATION	141,126	7,855	44%	Utility Delivery
80	BURNT WOODS SUBSTATION	319,577	17,787	100%	Total

Appendix B
BP-18 Rate Case Initial Proposal Multi-Segmented Facilities Summary

A	B	C	D	E
Transmission Lines	Investment (\$)	O&M (\$)	Multi %	Segment
81 CASCADE LOCKS SUBSTATION	371,131	9,912	61%	Network
82 CASCADE LOCKS SUBSTATION	235,592	6,292	39%	Utility Delivery
83 CASCADE LOCKS SUBSTATION	606,723	16,205	100%	Total
84 CHIEF JOSEPH SUBSTATION	8,367,960	169,390	23%	Generation Integration
85 CHIEF JOSEPH SUBSTATION	27,199,682	550,594	74%	Network
86 CHIEF JOSEPH SUBSTATION	978,839	19,814	3%	Southern Intertie
87 CHIEF JOSEPH SUBSTATION	36,546,481	739,798	100%	Total
88 CONKELLEY SUBSTATION	9,172,365	140,206	80%	Network
89 CONKELLEY SUBSTATION	2,249,725	34,389	20%	DSI Delivery
90 CONKELLEY SUBSTATION	11,422,090	174,595	100%	Total
91 DAVIS CREEK SUBSTATION	73,632	1,294	14%	Network
92 DAVIS CREEK SUBSTATION	471,589	8,287	86%	Utility Delivery
93 DAVIS CREEK SUBSTATION	545,221	9,581	100%	Total
94 DIXIE SUBSTATION	405,202	9,563	55%	Network
95 DIXIE SUBSTATION	337,515	7,966	45%	Utility Delivery
96 DIXIE SUBSTATION	742,717	17,528	100%	Total
97 DRAIN SUBSTATION	2,788,105	35,684	91%	Network
98 DRAIN SUBSTATION	283,499	3,628	9%	Utility Delivery
99 DRAIN SUBSTATION	3,071,603	39,312	100%	Total
100 DWORSHAK SUBSTATION	4,603,565	29,487	18%	Generation Integration
101 DWORSHAK SUBSTATION	20,751,338	132,918	82%	Network
102 DWORSHAK SUBSTATION	25,354,903	162,405	100%	Total
103 EAGLE LAKE SUBSTATION	203,425	6,937	45%	Network
104 EAGLE LAKE SUBSTATION	241,690	8,242	54%	Utility Delivery
105 EAGLE LAKE SUBSTATION	5,206	178	1%	Unsegmented
106 EAGLE LAKE SUBSTATION	450,321	15,356	100%	Total
107 FRANKLIN SUBSTATION	1,857,178	38,680	12%	Generation Integration
108 FRANKLIN SUBSTATION	14,093,574	293,530	88%	Network
109 FRANKLIN SUBSTATION	15,950,752	332,210	100%	Total
110 GARDINER SUBSTATION	605,747	23,920	66%	Network
111 GARDINER SUBSTATION	313,901	12,396	34%	Utility Delivery
112 GARDINER SUBSTATION	919,648	36,316	100%	Total
113 GARRISON SUBSTATION	60,194,821	390,436	69%	Network
114 GARRISON SUBSTATION	27,007,475	175,176	31%	Eastern Intertie
115 GARRISON SUBSTATION	87,202,295	565,613	100%	Total
116 GLADE SUBSTATION	192,511	3,734	35%	Network
117 GLADE SUBSTATION	319,684	6,201	58%	Utility Delivery
118 GLADE SUBSTATION	38,332	743	7%	Unsegmented
119 GLADE SUBSTATION	550,527	10,678	100%	Total
120 HARRISBURG SUBSTATION	4,893,940	19,026	96%	Network
121 HARRISBURG SUBSTATION	190,947	742	4%	Utility Delivery
122 HARRISBURG SUBSTATION	5,084,887	19,768	100%	Total

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A	B	C	D	E
Transmission Lines	Investment (\$)	O&M (\$)	Multi %	Segment
123 HOOD RIVER SUBSTATION	1,069,316	34,798	81%	Network
124 HOOD RIVER SUBSTATION	251,117	8,172	19%	Utility Delivery
125 HOOD RIVER SUBSTATION	1,320,434	42,969	100%	Total
126 INTALCO SUBSTATION	11,558,097	230,106	64%	Network
127 INTALCO SUBSTATION	6,422,640	127,866	36%	DSI Delivery
128 INTALCO SUBSTATION	17,980,736	357,972	100%	Total
129 IONE SUBSTATION	792,607	24,199	86%	Network
130 IONE SUBSTATION	131,095	4,002	14%	Utility Delivery
131 IONE SUBSTATION	923,702	28,201	100%	Total
132 JOHN DAY SUBSTATION	13,732,735	118,692	29%	Generation Integration
133 JOHN DAY SUBSTATION	20,473,133	176,950	44%	Network
134 JOHN DAY SUBSTATION	12,737,677	110,092	27%	Southern Intertie
135 JOHN DAY SUBSTATION	46,943,545	405,734	100%	Total
136 LANGLOIS SUBSTATION	897,249	12,217	81%	Network
137 LANGLOIS SUBSTATION	203,884	2,776	19%	Utility Delivery
138 LANGLOIS SUBSTATION	1,101,133	14,993	100%	Total
139 LIBBY SUBSTATION(BPA)	2,262,217	50,372	25%	Generation Integration
140 LIBBY SUBSTATION(BPA)	6,657,710	148,245	75%	Network
141 LIBBY SUBSTATION(BPA)	8,919,927	198,616	100%	Total
142 LITTLE GOOSE SUBSTATION	16,845,346	28,108	20%	Generation Integration
143 LITTLE GOOSE SUBSTATION	67,381,383	112,433	80%	Network
144 LITTLE GOOSE SUBSTATION	84,226,729	140,541	100%	Total
145 LOOKOUT POINT SUBSTATION	680,060	7,098	25%	Generation Integration
146 LOOKOUT POINT SUBSTATION	2,040,181	21,294	75%	Network
147 LOOKOUT POINT SUBSTATION	2,720,241	28,393	100%	Total
148 LOWER GRANITE SUBSTATION	2,442,508	29,276	25%	Generation Integration
149 LOWER GRANITE SUBSTATION	7,327,523	87,829	75%	Network
150 LOWER GRANITE SUBSTATION	9,770,031	117,105	100%	Total
151 LOWER MONUMENTAL SUBSTATION	2,863,442	27,670	12%	Generation Integration
152 LOWER MONUMENTAL SUBSTATION	20,245,805	195,637	88%	Network
153 LOWER MONUMENTAL SUBSTATION	23,109,246	223,307	100%	Total
154 LYNCH CREEK SUBSTATION	726,128	12,779	57%	Network
155 LYNCH CREEK SUBSTATION	545,682	9,604	43%	Utility Delivery
156 LYNCH CREEK SUBSTATION	1,271,810	22,383	100%	Total
157 MAPLETON SUBSTATION	716,261	41,259	93%	Network
158 MAPLETON SUBSTATION	54,533	3,141	7%	Utility Delivery
159 MAPLETON SUBSTATION	770,794	44,401	100%	Total
160 MARION SUBSTATION	37,100,287	361,874	92%	Network
161 MARION SUBSTATION	3,381,162	32,980	8%	Southern Intertie
162 MARION SUBSTATION	40,481,449	394,853	100%	Total
163 MCNARY SUBSTATION	3,919,325	36,765	6%	Generation Integration
164 MCNARY SUBSTATION	58,762,250	551,213	94%	Network
165 MCNARY SUBSTATION	62,681,575	587,978	100%	Total

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A	B	C	D	E
Transmission Lines	Investment (\$)	O&M (\$)	Multi %	Segment
166 MINIDOKA SUBSTATION	139,342	3,218	36%	Network
167 MINIDOKA SUBSTATION	246,447	5,691	64%	Utility Delivery
168 MINIDOKA SUBSTATION	385,789	8,909	100%	Total
169 MONMOUTH SUBSTATION	721,157	16,626	56%	Network
170 MONMOUTH SUBSTATION	576,749	13,297	44%	Utility Delivery
171 MONMOUTH SUBSTATION	1,297,906	29,923	100%	Total
172 MOUNTAIN AVENUE SUBSTATION	1,641,497	15,080	78%	Network
173 MOUNTAIN AVENUE SUBSTATION	457,106	4,199	22%	Utility Delivery
174 MOUNTAIN AVENUE SUBSTATION	2,098,603	19,279	100%	Total
175 NECANICUM SUBSTATION	93,208	4,225	70%	Network
176 NECANICUM SUBSTATION	40,602	1,841	30%	Utility Delivery
177 NECANICUM SUBSTATION	133,810	6,066	100%	Total
178 NORTH BENCH SUBSTATION	512,217	5,716	97%	Network
179 NORTH BENCH SUBSTATION	15,179	169	3%	Utility Delivery
180 NORTH BENCH SUBSTATION	527,396	5,886	100%	Total
181 NORTH BONNEVILLE SUBSTATION	4,205,346	69,386	37%	Generation Integration
182 NORTH BONNEVILLE SUBSTATION	7,238,435	119,431	63%	Network
183 NORTH BONNEVILLE SUBSTATION	11,443,782	188,817	100%	Total
184 NORTH BUTTE SUBSTATION	121,781	4,330	65%	Network
185 NORTH BUTTE SUBSTATION	65,029	2,312	35%	Utility Delivery
186 NORTH BUTTE SUBSTATION	186,810	6,642	100%	Total
187 PARKDALE SUBSTATION	1,071,795	18,296	87%	Network
188 PARKDALE SUBSTATION	161,852	2,763	13%	Utility Delivery
189 PARKDALE SUBSTATION	1,233,647	21,059	100%	Total
190 PORT ORFORD SUBSTATION	296,514	13,679	63%	Network
191 PORT ORFORD SUBSTATION	174,549	8,052	37%	Utility Delivery
192 PORT ORFORD SUBSTATION	471,063	21,731	100%	Total
193 POTLATCH SUBSTATION(BPA)	1,003,683	20,781	89%	Network
194 POTLATCH SUBSTATION(BPA)	117,768	2,438	11%	Utility Delivery
195 POTLATCH SUBSTATION(BPA)	1,121,451	23,220	100%	Total
196 REEDSPORT SUBSTATION (BPA)	3,412,604	47,432	94%	Network
197 REEDSPORT SUBSTATION (BPA)	203,320	2,826	6%	Utility Delivery
198 REEDSPORT SUBSTATION (BPA)	3,615,925	50,258	100%	Total
199 RINGOLD SUBSTATION	383,145	12,700	72%	Network
200 RINGOLD SUBSTATION	116,044	3,846	22%	Utility Delivery
201 RINGOLD SUBSTATION	31,143	1,032	6%	Unsegmented
202 RINGOLD SUBSTATION	530,331	17,578	100%	Total
203 SACAJAWEA SUBSTATION	213,469	517	1%	Generation Integration
204 SACAJAWEA SUBSTATION	24,453,765	59,173	99%	Network
205 SACAJAWEA SUBSTATION	24,667,235	59,689	100%	Total
206 SANDPOINT SUBSTATION(BPA)	1,106,305	26,010	85%	Network
207 SANDPOINT SUBSTATION(BPA)	198,146	4,658	15%	Utility Delivery
208 SANDPOINT SUBSTATION(BPA)	1,304,451	30,668	100%	Total

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A	B	C	D	E
Transmission Lines	Investment (\$)	O&M (\$)	Multi %	Segment
209 SANTIAM SUBSTATION	1,235,067	18,195	5%	Generation Integration
210 SANTIAM SUBSTATION	23,174,044	341,392	95%	Network
211 SANTIAM SUBSTATION	24,409,111	359,587	100%	Total
212 SCOOTENEY SUBSTATION	1,346,338	22,031	91%	Network
213 SCOOTENEY SUBSTATION	136,876	2,240	9%	Utility Delivery
214 SCOOTENEY SUBSTATION	1,483,214	24,271	100%	Total
215 SELLE SUBSTATION	233,060	3,963	41%	Network
216 SELLE SUBSTATION	332,559	5,655	59%	Utility Delivery
217 SELLE SUBSTATION	565,619	9,619	100%	Total
218 SLATT SUBSTATION	68,794,234	220,001	94%	Network
219 SLATT SUBSTATION	4,071,004	13,019	6%	Southern Intertie
220 SLATT SUBSTATION	72,865,238	233,020	100%	Total
221 STATELINE SUBSTATION	35,972	5,247	25%	Network
222 STATELINE SUBSTATION	105,755	15,426	75%	Utility Delivery
223 STATELINE SUBSTATION	141,727	20,673	100%	Total
224 STEILACOOM SUBSTATION	754,305	7,695	69%	Network
225 STEILACOOM SUBSTATION	346,790	3,538	31%	Utility Delivery
226 STEILACOOM SUBSTATION	1,101,095	11,232	100%	Total
227 SUMMER LAKE SUBSTATION	2,682,663	36,416	43%	Network
228 SUMMER LAKE SUBSTATION	3,556,088	48,273	57%	Southern Intertie
229 SUMMER LAKE SUBSTATION	6,238,750	84,689	100%	Total
230 SURPRISE LAKE SUBSTATION	604,747	12,819	80%	Network
231 SURPRISE LAKE SUBSTATION	155,330	3,292	20%	Utility Delivery
232 SURPRISE LAKE SUBSTATION	760,077	16,111	100%	Total
233 SWAN VALLEY SUBSTATION	6,903,859	57,833	98%	Network
234 SWAN VALLEY SUBSTATION	165,343	1,385	2%	Utility Delivery
235 SWAN VALLEY SUBSTATION	7,069,201	59,218	100%	Total
236 TACOMA SUBSTATION	19,730,805	363,281	96%	Network
237 TACOMA SUBSTATION	759,676	13,987	4%	Unsegmented
238 TACOMA SUBSTATION	20,490,481	377,269	100%	Total
239 TRENTWOOD SUBSTATION	5,690,885	84,607	81%	Network
240 TRENTWOOD SUBSTATION	1,295,002	19,253	19%	DSI Delivery
241 TRENTWOOD SUBSTATION	14,931	222	0%	Unsegmented
242 TRENTWOOD SUBSTATION	7,000,818	104,081	100%	Total
243 TROY SUBSTATION	542,902	14,989	56%	Network
244 TROY SUBSTATION	431,599	11,916	44%	Utility Delivery
245 TROY SUBSTATION	974,501	26,905	100%	Total
246 TUMBLE CREEK SUBSTATION	809,064	12,703	83%	Network
247 TUMBLE CREEK SUBSTATION	170,214	2,672	17%	Utility Delivery
248 TUMBLE CREEK SUBSTATION	979,279	15,375	100%	Total
249 TWO MILE ROAD SUBSTATION	1,074,631	12,704	71%	Network
250 TWO MILE ROAD SUBSTATION	443,047	5,238	29%	Utility Delivery
251 TWO MILE ROAD SUBSTATION	1,517,678	17,942	100%	Total

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A	B	C	D	E
Transmission Lines	Investment (\$)	O&M (\$)	Multi %	Segment
252 VALHALLA SUBSTATION	3,785,620	116,733	92%	Network
253 VALHALLA SUBSTATION	317,754	9,798	8%	Unsegmented
254 VALHALLA SUBSTATION	4,103,374	126,531	100%	Total
255 WALTON SUBSTATION	213,497	10,191	60%	Network
256 WALTON SUBSTATION	141,844	6,771	40%	Utility Delivery
257 WALTON SUBSTATION	355,341	16,962	100%	Total
258 WINTHROP SUBSTATION	1,349,024	32,915	88%	Network
259 WINTHROP SUBSTATION	180,015	4,392	12%	Utility Delivery
260 WINTHROP SUBSTATION	1,529,039	37,308	100%	Total
261 YAAK SUBSTATION	301,283	9,055	57%	Network
262 YAAK SUBSTATION	225,898	6,789	43%	Utility Delivery
263 YAAK SUBSTATION	527,181	15,844	100%	Total

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