

BP-18 Rate Proceeding

Final Proposal

Transmission Segmentation Study and Documentation

BP-18-FS-BPA-07

July 2017



TRANSMISSION SEGMENTATION STUDY AND DOCUMENTATION

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COMMONLY USED ACRONYMS AND SHORT FORMS

AC	Anticipated Accumulation of Cash
ACNR	Accumulated Calibrated Net Revenue
ACS	Ancillary and Control Area Services
AF	Advance Funding
AFUDC	Allowance for Funds Used During Construction
aMW	average megawatt(s)
ANR	Accumulated Net Revenues
ASC	Average System Cost
BAA	Balancing Authority Area
BiOp	Biological Opinion
BPA	Bonneville Power Administration
Bps	basis points
Btu	British thermal unit
CIP	Capital Improvement Plan
CIR	Capital Investment Review
CDQ	Contract Demand Quantity
CGS	Columbia Generating Station
CHWM	Contract High Water Mark
CNR	Calibrated Net Revenue
COB	California-Oregon border
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
DDC	Dividend Distribution Clause
dec	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
EIM	Energy imbalance market

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
FOIA	Freedom Of Information Act
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
GSP	Generation System Peak
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
inc	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
IRPL	Incremental Rate Pressure Limiter
IS	Southern Intertie
kcfs	thousand cubic feet per second
kW	kilowatt
kWh	kilowatthour
LDD	Low Density Discount
LGIA	Large Generator Interconnection Agreement
LLH	Light Load Hour(s)
LPP	Large Project Program
LPTAC	Large Project Targeted Adjustment Charge
LTF	Long-term Form
Maf	million acre-feet

Mid C	Mid Columbia
MMBtu	million British thermal units
MNR	Modified Net Revenue
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
NOB	Nevada-Oregon border
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

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1. OVERVIEW

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

Segmentation involves three primary steps:

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

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

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2. SEGMENT DEFINITIONS

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

2.1 Generation Integration Segment

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

This segment includes:

- generator step-up transformers, which transform voltage from the generation level to the transmission level;
- transmission lines between the generating facility and the first substation at which the power enters the Network segment; and
- substation terminal equipment, such as disconnect switches and circuit breakers associated with integrating Federal generation, installed and assigned to the Generation Integration segment prior to the development of the Direct Assignment Guidelines in the late 1990s (the guidelines have been revised and are now known as the Facility Ownership and Cost Assignment Guidelines). This treatment is consistent with the BP-16 Administrator’s Final Record of Decision. *See* Administrator’s Final Record of 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 portion of the 500-kV AC line between Coyote Springs and Slatt substations, a portion of the 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.

2.6 Direct Service Industry Delivery Segment

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

2.7 Ancillary Services Segment

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

This segment includes:

- monitoring and supervisory control equipment;
- associated communications equipment; and
- 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 that identify the location, interconnectivity, and ownership of transmission lines, substations, circuit breakers, and transformers.
- Installation and maintenance records that 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, that 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. These facilities are identified in Appendix B to this Study. 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 2 miles of a 20-mile line are used to integrate Federal generation, and after 2 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

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

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

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

3.2 Facilities Not Assigned to a Segment

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

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

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

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

The segmented investment through September 30, 2016 is shown in Table 2. The segmented expected future plant investment is shown in Table 3.1. The historical O&M by segment for FY 2010 to FY 2016 is shown in Table 4.1.

4.1 Gross Investment in Existing Facilities

BPA's gross investment is shown in Table 1 and illustrated in the associated chart. The investment related to (1) transmission plant, including leased assets, emergency stock, and intangibles, (2) depreciable land, and (3) general plant is identified and segmented in the segmentation process. These investments are described in more detail below. The gross investment is identified from BPA's investment records as of FY 2016, which is the most recently completed fiscal year at the time that this Study is being prepared.

4.1.1 Transmission Plant Investment

Transmission plant investment refers to investment in lines and substations, as defined in FERC accounts 352 through 356, 358, 359, 390, and 391, and investment in some leased facilities (which are not classified by FERC account). See Table 2. The total transmission plant investment, including leased facilities but excluding Projects Funded in Advance (PFIA), is \$7.6 billion as of the end of FY 2016 (Table 1, line 23). PFIA are projects funded by the

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

6 7 **4.1.2 Intangible Investment**

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

13 14 **4.1.3 Land Investment**

15 Land owned by BPA is not depreciated, and therefore no amortized costs for land need to be
16 segmented. However, BPA does have leased land that is depreciable (\$48.7 million, Table 2,
17 line 37) and which therefore must be segmented. Most of the leased land (\$47.7 million,
18 Table 2, line 34, columns H and I) is used for rights-of-way for transmission lines and is
19 segmented according to the type of service provided by the associated transmission lines. For
20 example, leased land that supports a transmission line segmented to the Network segment is
21 allocated to that segment.

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

1 leased land is prorated to the segments based on the total of the line and station investment
2 allocated to each segment.

4 **4.1.4 Ancillary Service Investment**

5 BPA has \$185.7 million in ancillary service investment. Table 2, line 41. This investment
6 includes equipment designated as control equipment (\$76.1 million, line 43), hardware and
7 software at the control centers supporting scheduling and dispatch (\$48.7 million, line 46), and
8 communications equipment supporting Supervisory Control and Data Acquisition (SCADA)
9 (\$60.9 million, line 52). This investment is all allocated to the Ancillary Services segment.

11 **4.1.5 General Plant Investment**

12 General plant investment is associated with equipment of a general nature (FERC accounts 390
13 through 398, with some amounts identified in FERC accounts 352, 353, and 356). *See* Table 2.
14 BPA's telecommunications system facilities (such as radio stations), maintenance buildings, and
15 vehicles are examples of general plant investment. Through FY 2016, BPA's general plant
16 investment (less PFIA) was \$1.05 billion. Table 2, line 41. General plant investment is not
17 allocated to the segments in this Study. In the Transmission Revenue Requirement Study, the
18 depreciation cost associated with this investment is treated as an overhead expense and allocated
19 pro rata to the segments based on the segmented O&M expenses. *See* Transmission Revenue
20 Requirement Study Documentation, BP-18-FS-BPA-09A, § 2.2.

22 **4.2 Retirement of Existing Facilities and Installation of New Facilities**

23 As this Study is being prepared, BPA has the actual investment figure for facilities in place as of
24 the end of FY 2016. To estimate the investment that will be in place during the FY 2018–2019
25 rate period, this figure is adjusted to remove investment in facilities expected to be retired or
26 sold, and to include the forecast of facilities expected to be installed after the end of FY 2016 and

1 before the end of FY 2019. Table 3.1 summarizes the expected station and line investment by
2 segment for fiscal years 2017 through 2019.

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

9 10 **4.3 Operations and Maintenance Expense**

11 This Study includes historical O&M expenses from plant record data for the last seven fiscal
12 years (2010 through 2016). O&M expenses are categorized into three groups (*see* Table 4.2):

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

16
17 The O&M expenses allocated to lines and substations include substation operations, various
18 transmission maintenance programs, technical training, vegetation management, and
19 environmental expenses, such as pollution controls. These expenses are segmented according to
20 the facilities supported (*see* Table 4.3). The seven-year historical line and substation O&M
21 expenses average \$167.0 million annually (Table 4.1, line 16). The segmented historical costs
22 are used to allocate the projected future O&M costs. *See* Transmission Revenue Requirement
23 Study Documentation, BP-18-FS-BPA-09A, § 2.2.

24
25 Scheduling costs and system operations costs are for staff and technology associated with
26 reserving, scheduling, monitoring, controlling, and dispatching the transmission system. The

seven-year average historical scheduling and dispatch cost is \$52.4 million (Table 4.1, line 18). Rate period forecast scheduling and system operations costs are directly assigned to the Ancillary Services segment and recovered through the SCD service rate. See Transmission Revenue Requirement Study Documentation, BP-18-FS-BPA-09A, § 2.2.

Marketing and business support costs are associated with general business functions, including sales and contract management, billing, business strategy, legal support, aircraft services, and general administration and executive services. The seven-year historical marketing and support costs average \$48.7 million (Table 4.1, line 18). Rate period forecast costs are allocated pro rata on a net plant basis based on the directly assigned investment. See Transmission Revenue Requirement Study Documentation, BP-18-FS-BPA-09A, § 2.2.

4.3.1 Historical Line and Station O&M Assignment to Segments

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

1. Historical O&M expenses are identified by fiscal year and category, as shown in Table 4.2. Categories are expense programs within BPA's transmission business line, such as substation operations and transmission line maintenance.
2. Approximately one-third of the historical O&M expenses are associated with a specific line, substation, or metering location (*i.e.*, facility type). These expenses, identified as direct O&M expenses, are allocated to segments in the same proportion as was the investment in the specific facility. Thus, if certain O&M expenses are associated with a given substation, and 60 percent of the substation investment was allocated to the Network, 60 percent of those O&M expenses are allocated to the Network. If the investment in a substation is allocated entirely to one segment, then the O&M is also allocated entirely to that segment. The

allocation of O&M for each facility is identified in Appendix A. The direct O&M expenses are then aggregated by category and facility type. See Table 4.3.

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

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

The investment and annual O&M expenses for the U.S. Army Corps of Engineers (Corps) and U.S. Bureau of Reclamation (Reclamation) facilities that function as part of BPA's transmission system are included in the transmission revenue requirement, even though BPA does not own

1 these facilities. The total Corps and Reclamation expenses allocated to transmission were
2 identified in the BP-18 generation inputs settlement. Fredrickson & Fisher, BP-18-E-BPA-18,
3 Appendix A, Attachment 3. The segmentation of these expenses is based on an analysis of the
4 Corps and Reclamation facilities summarized in Table 5. As shown, 97.9 percent of the
5 expenses are segmented to the Network and 2.1 percent of the expenses are segmented to Utility
6 Delivery.

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TABLES

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Table 1
BPA Investment Summary, through Sept. 30, 2016
(\$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	6,155,535	145,604	93,065	52,539
2	MASTER LEASE	1,422,579			
3	LEASED ASSETS	127,948			
4	CAPITAL LEASES	20,262			
5	EMERGENCY MINIMUM STOCK	13,094			
6	INTANGIBLES	9,559		<u>Land Stations</u>	<u>Land Lines</u>
7	FEE LAND IN SERVICE	157,684	238	33,605	123,840
8	DEPRECIABLE FEE LAND	48,830	107	770	47,954
9	GENERAL PLANT IN SERVICE	1,125,603	45,590		
10	Corporate Plant in Service	162,087			
11	PS Plant in Service	61,097			
12	Accounting Adjustments	7,853			
13	Grand Total	9,312,129	191,539		
<u>Transmission Plant</u>			<u>Segmented</u>	<u>Unsegmented</u>	<u>Ancillary Service</u>
14	Substations	3,889,260			
15	Metering Locations	15,041			
16	Total Stations	3,904,301	3,882,671	21,630	
17	Total Lines	3,399,815	3,379,022	20,793	
18	Other Transmission Plant	122,306		122,306	
19	Emergency minimum stock	13,094		13,094	
20	Intangibles	9,559	9,559		
21	Communication Equipment (397)	78,184		63,986	14,199
22	Control Equipment (353.1)	76,113			76,113
23	TPLNT (inc Leases) less PFIA	7,603,372	7,271,252	241,808	90,312
<u>General Plant</u>					
24	Communication Equipment (397)	538,839		492,165	46,674
25	Control Equipment (353.1, 391.2.2, 391.3.2)	48,669			48,669
26	Other General Plant	492,505		492,505	
27	GPLNT less PFIA	1,080,013		984,671	95,342
<u>Subtotals</u>					
28	Communication Equipment (397)	617,023		556,151	60,872
29	Control Equipment (353.1, 391.2.2, 391.3.2)	124,782			124,782
30	Total (incl. Dep Land GPlant)			1,048,656	185,654

Chart 1
BPA Plant Investment
as of September 30, 2016
Total: \$9,312,129
(\$000)

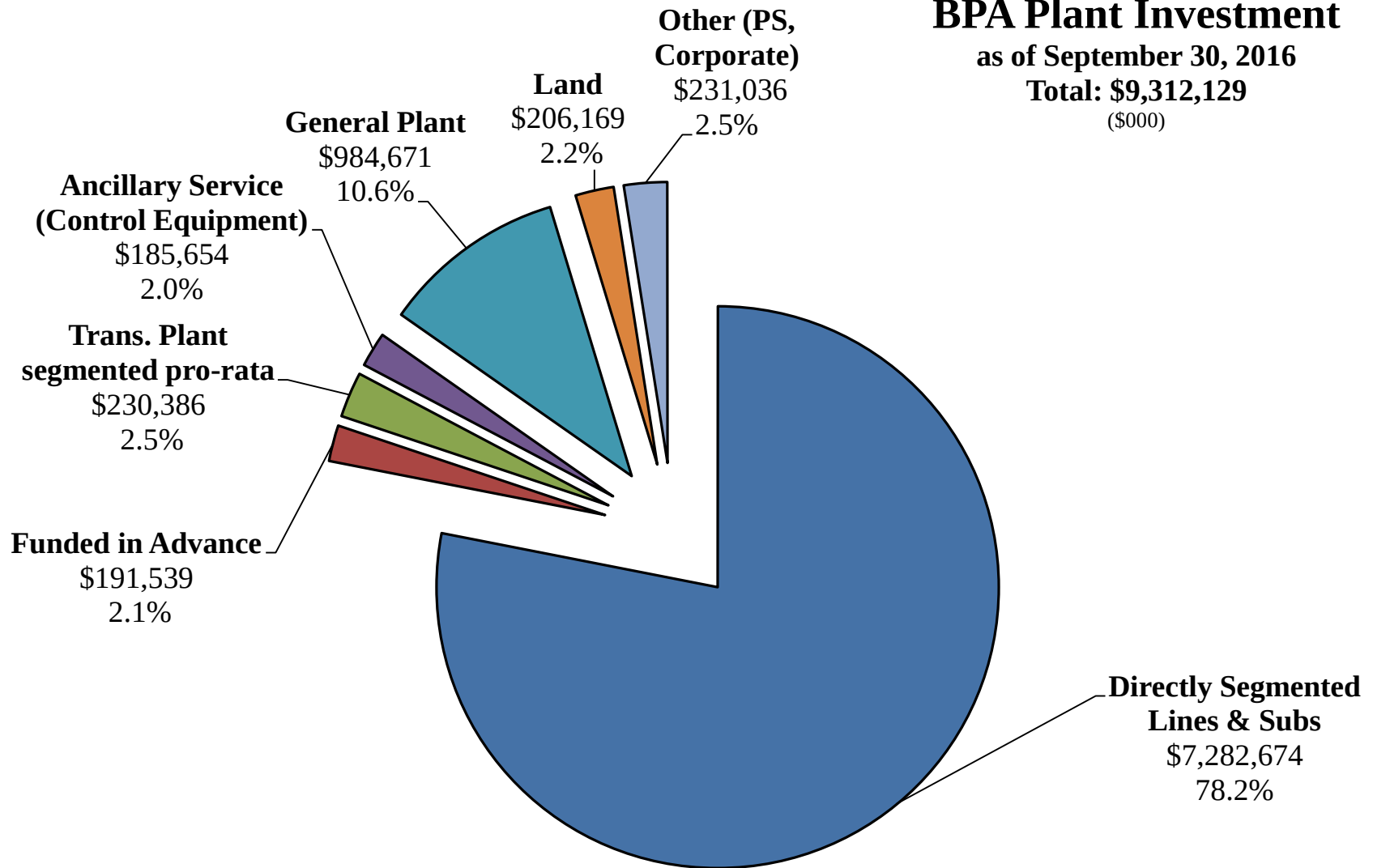


Table 2
BPA Segmented Investment, through Sept. 30, 2016
(\$000)

A	B <u>Generation Integration</u>	C <u>Network</u>	D <u>Southern Intertie</u>	E <u>Eastern Intertie</u>	F <u>Utility Delivery</u>	G <u>DSI Delivery</u>	H <u>Segmented Total</u>	I <u>Un-segmented</u>
1 Stations	89,355	2,990,838	754,333	27,308	12,863	7,974	3,882,671	21,630
2 Other Facilities								122,306
3 Emergency Stock								13,094
4 Unseg.Allocation	3,614	120,961	30,508	1,104	520	323	157,030	(157,030)
5 Subtotal	92,969	3,111,799	784,841	28,412	13,383	8,297	4,039,701	-
FERC Account Summary								
6 Account 352							415,085	
7 Account 353							3,586,354	
8 Account 354							21,318	
9 Account 355							4,720	
10 Account 356							4,791	
11 Account 358							111	
12 Account 359							4,924	
13 Account 390							1,847	
14 Account 391							484	
15 Leased (no account)							67	
16 Substation total							4,039,701	
17 Lines	18,198	3,067,230	199,018	94,271	306	-	3,379,022	20,793
18 Unseg.Allocation	112	18,874	1,225	580	2	-	20,793	(20,793)
19 Subtotal	18,310	3,086,104	200,242	94,851	308	-	3,399,815	-
FERC Account Summary								
20 Account 352							1,713	
21 Account 353							24,695	
22 Account 354							1,251,126	
23 Account 355							395,870	
24 Account 356							1,371,402	
25 Account 358							21,799	
26 Account 359							267,744	
27 Leased (no account)							65,466	
28 Line total							3,399,815	
29 Intangibles (Account 303)		5,633	3,925				9,559	
30 Lines & Subs Total	111,279	6,203,536	989,009	123,264	13,691	8,297	7,449,074	-
31 % of Segmented Total	1.5%	83.3%	13.3%	1.7%	0.2%	0.1%	100.0%	

Table 2
BPA Segmented Investment, through Sept. 30, 2016
(\$000)

A	B	C	D	E	F	G	H	I
	<u>Generation</u>	<u>Network</u>	<u>Southern</u>	<u>Eastern</u>	<u>Utility</u>		<u>Segmented</u>	
			<u>Intertie</u>	<u>Intertie</u>	<u>Delivery</u>	<u>DSI Delivery</u>	<u>Total</u>	<u>Un-segmented</u>
32 Depreciable Land (Account 350)								
33 Substations	-	46	-	-	-	-	46	
34 Lines	61	47,631	-	-	-	-	47,692	263
35 Other Facilities								724
36 Unseg.Allocation	15	822	131	16	2	1	987	(987)
37 Subtotal	76	48,498	131	16	2	1	48,724	-
							Ancillary	
							<u>Services</u>	<u>General Plant</u>
Other								
38 Control							124,782	
39 Communications							60,872	556,151
40 General Plant								492,505
41 Subtotal							185,654	1,048,656
FERC Account Summary								
42 Account 352								44
43 Account 353 (Ancillary service is control equipment only)							76,113	(5)
44 Account 356								(2)
45 Account 390								255,486
46 Account 391 (Ancillary service is control equipment only)							48,669	44,647
47 Account 392								73,928
48 Account 393								3,729
49 Account 394								11,430
50 Account 395								27,777
51 Account 396								28,928
52 Account 397 (Ancillary service is control equipment only)							60,872	556,151
53 Account 398								46,544
54 Other total							185,654	1,048,656
55 Segmented Investment	111,354	6,252,033	989,140	123,280	13,693	8,298	185,654	1,048,656

Table 3.1
Future Plant in Service Summary
(\$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 FY 2017	-	138,639	9,130	133	-	-	147,903
2 FY 2018	-	166,249	8,774	91	-	-	175,113
3 FY 2019	-	169,468	20,123	117	-	-	189,708
Lines							
4 FY 2017	-	91,969	57,338	-	-	-	149,307
5 FY 2018	-	98,583	1,921	-	-	-	100,504
6 FY 2019	-	120,323	1,901	-	-	-	122,225
Lines & Subs							
7 FY 2017	-	230,608	66,468	133	-	-	297,209
8 FY 2018	-	264,832	10,695	91	-	-	275,618
9 FY 2019	-	289,792	22,024	117	-	-	311,933
Other							
	Ancillary Services	General Plant					
10 FY 2017	23,450	160,296					
11 FY 2018	36,724	137,281					
12 FY 2019	36,959	157,515					

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

	A	B	C	D	E	F	G	H	I	J	K	L	M
	Project	Total			Substation			Line			General Plant & Ancillary		
		FY17	FY18	FY19	FY17	FY18	FY19	FY17	FY18	FY19	FY17	FY18	FY19
1	BIG EDDY-KNIGHT 500KV PROJECT	8,200	-	-	820	-	-	6,560	-	-	820	-	-
2	CENTRAL FERRY- LOWER MONUMNTAL PROJECT	-	-	-	-	-	-	-	-	-	-	-	-
3	I-5 CORRIDOR REINFORCEMENT PROJECT	8,900	-	-	712	-	-	8,010	-	-	178	-	-
4	MAIN GRID PROJECTS												
5	PORTLAND-VANCOUVER AREA	-	-	-	-	-	-	-	-	-	-	-	-
6	PUGET SOUND TO CANADA TRANSFER AREA	-	-	6,263	-	-	5,637	-	-	626	-	-	-
7	SEATTLE TO PORTLAND TRANSFER AREA	-	-	-	-	-	-	-	-	-	-	-	-
8	MONTANA TO NORTHWEST TRANSFER AREA	275	-	-	138	-	-	-	-	-	138	-	-
9	MISC MAIN GRID PROJECTS & COMPLIANCE	9,175	269	2,000	114	2	1,000	61	1	800	9,000	267	200
10	AREA & CUSTOMER SERVICE PROJECTS												
11	BURLEY/SOUTHERN IDAHO AREA	-	-	2,800	-	-	2,800	-	-	-	-	-	-
12	CENTRAL OREGON AREA	100	-	-	-	-	-	100	-	-	-	-	-
13	CENTRALIA/CHEHALIS AREA	439	-	590	439	-	-	-	-	-	-	-	590
14	DE MOSS/FOSSIL AREA	-	2,152	-	-	1,777	-	-	375	-	-	-	-
15	EUGENE AREA	775	-	-	775	-	-	-	-	-	-	-	-
16	HOOD RIVER/THE DALLES AREA	625	-	-	-	-	-	-	-	-	625	-	-
17	LONGVIEW AREA	-	-	-	-	-	-	-	-	-	-	-	-
18	MID-COLUMBIA AREA	200	-	1,500	200	-	1,500	-	-	-	-	-	-
19	NORTH IDAHO AREA	-	2,816	500	-	2,750	-	-	-	-	-	66	500
20	NORTH OREGON COAST AREA	-	-	878	-	-	878	-	-	-	-	-	-
21	NORTHWEST MONTANA AREA	1,400	-	4,697	-	-	4,697	-	-	-	1,400	-	-
22	OLYMPIC PENNINSULA AREA	-	-	-	-	-	-	-	-	-	-	-	-
23	PORTLAND AREA	1,000	1,060	5,695	25	1,060	5,353	975	-	342	-	-	-
24	SALEM/ALBANY AREA	-	-	-	-	-	-	-	-	-	-	-	-
25	SEATTLE/TACOMA/OLYMPIC AREA	2,416	15,359	2,608	2,090	14,284	2,295	86	-	52	241	1,075	261
26	SOUTH OREGON COAST AREA	-	-	-	-	-	-	-	-	-	-	-	-
27	SOUTHEAST IDAHO/NORTHWEST WYOMING AREA	-	926	38,688	-	926	9,672	-	-	29,016	-	-	-
28	SOUTHWEST WASHINGTON COAST AREA	75	-	-	38	-	-	-	-	-	38	-	-
29	SPOKANE/COLVILLE/BOUNDARY AREA	-	-	-	-	-	-	-	-	-	-	-	-
30	TRI CITIES AREA	194	15,113	19,970	194	3,044	-	-	12,069	19,970	-	-	-
31	VANCOUVER AREA	125	-	-	-	-	-	125	-	-	-	-	-
32	MISC. AREA & CUSTOMER SERVICE	-	2,577	2,182	-	2,109	1,500	0	468	582	-	-	100
33	SECURITY	8,000	6,000	8,000	8,000	6,000	8,000	-	-	-	-	-	-
34	IT Projects	1,477	5,000	5,000	-	-	-	-	-	-	1,477	5,000	5,000
35	SYSTEM TELECOMM - UPGRADES & ADDITIONS PROGRAM	25,200	26,089	21,152	-	-	-	-	-	-	25,200	26,089	21,152
36	MISC. FACILITIES NON-ELECTRIC - EXPAND	22,800	9,400	22,200	-	-	-	-	-	-	22,800	9,400	22,200
37	MISC. SYSTEM REPLACEMENTS	-	3,500	7,000	-	-	-	-	-	-	-	3,500	7,000

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

	A	B	C	D	E	F	G	H	I	J	K	L	M
	Project	Total			Substation			Line			General Plant & Ancillary		
		FY17	FY18	FY19	FY17	FY18	FY19	FY17	FY18	FY19	FY17	FY18	FY19
38	SUSTAIN PROGRAM												
39	ACCESS ROADS - SUSTAIN	22,500	21,022	15,145	-	-	-	-	-	-	22,500	21,022	15,145
40	LAND RIGHTS - SUSTAIN	11,300	10,043	10,062	-	-	-	-	-	-	11,300	10,043	10,062
41	SUB DC - SUSTAIN	600	1,000	8,500	600	1,000	8,500	-	-	-	-	-	-
42	SYSTEM TELECOMM - SUSTAIN	22,000	15,000	15,000	-	-	-	-	-	-	22,000	15,000	15,000
43	CC SYSTEMS INFRASTRUCTURE	1,900	9,000	9,000	-	-	-	-	-	-	1,900	9,000	9,000
44	SUB DC - UPGRADES & ADDITIONS	55,326	-	-	-	-	-	55,326	-	-	-	-	-
45	UPGRADES & ADDITIONS PROJECTS												
46	MISC UPS & ADDS	75	4,653	728	56	3,300	682	15	944	-	4	409	45
47	SUBS AC - UPS & ADDS	2,000	15,232	6,000	2,000	15,232	6,000	-	-	-	-	-	-
48	PMUS FOR EXISTING WIND SITES	-	-	-	-	-	-	-	-	-	-	-	-
49	SUBS AC PROGRAM												
50	SUB AC-CIRCUIT BRKR & SWTCH GR	16,500	16,180	19,215	16,500	16,180	19,215	-	-	-	-	-	-
51	SUB AC-TRANSFORMERS & REACTORS	16,000	13,360	12,382	16,000	13,360	12,382	-	-	-	-	-	-
52	SUB AC - CVT/PT/CT & ARRESTERS	2,000	2,220	2,553	2,000	2,220	2,553	-	-	-	-	-	-
53	SUB AC- SHUNT CAPACITORS	1,300	740	884	1,300	740	884	-	-	-	-	-	-
54	SUB AC - LOW VOLTAGE AUX.	12,500	5,750	7,076	12,500	5,750	7,076	-	-	-	-	-	-
55	SUB AC- BUS & STRUCTURES	1,600	1,750	2,111	1,600	1,750	2,111	-	-	-	-	-	-
56	LINES WOOD POLES SUSTAIN PROGRAM	43,000	49,040	32,000	-	-	-	43,000	49,040	32,000	-	-	-
57	LINES STEEL SUSTAIN PROGRAM	14,800	17,500	18,600	-	-	-	14,800	17,500	18,600	-	-	-
58	PSC PROGRAM	11,000	21,543	29,562	-	-	-	-	-	-	11,000	21,543	29,562
59	SPC PROGRAM	22,950	20,543	24,017	17,450	19,043	21,017	-	-	-	5,500	1,500	3,000
60	TEAP - TOOLS PROGRAM	725	885	866	-	-	-	-	-	-	725	885	866
61	TEAP EQUIPMENT FLEET	6,200	6,700	7,200	-	-	-	-	-	-	6,200	6,700	7,200
62	LINES - RATING PROGRAM	1,000	800	500	-	-	-	1,000	800	500	-	-	-
63	MISC NON-ELECTRIC FACILITIES	3,600	7,300	11,600	-	-	-	-	-	-	3,600	7,300	11,600
64	Total Environment (PP&A)	5,475	5,529	5,585	5,475	5,529	5,585	-	-	-	-	-	-
65	TS Program Indirect	55,418	56,249	57,093	28,817	29,249	29,688	9,421	9,562	9,706	17,179	17,437	17,699
66	Lease Modification Costs	2,000	17,770	-	-	-	-	-	-	-	2,000	17,770	-
67	Corporate Adjustments (G&A Cap Distribution)	57,811	39,553	59,006	30,062	29,808	30,683	9,828	9,745	10,031	17,921	-	18,292
68	TOTALS:	480,955	449,623	506,407	147,903	175,113	189,708	149,307	100,504	122,225	183,745	174,005	194,474

Table 4.1
BPA Historical Operations and Maintenance (O&M)
Fiscal years 2010 through 2016 (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	932	31,834	5,369	198	241	164	38,737
2 % Direct	2.4%	82.2%	13.9%	0.5%	0.6%	0.4%	100.0%
3 Unsegmented Allocation	179	6,125	1,033	38	46	32	7,454
4 Non-Direct Allocation	1,677	57,295	9,662	357	433	296	69,719
5 Metering Direct Allocation	15	288	-	-	29	-	332
6 % Direct	4.5%	86.7%	0.0%	0.0%	8.8%	0.0%	100.00%
7 Non-Direct Allocation	20	381	-	-	39	-	440
8 Total Station O&M	2,822	95,923	16,064	593	788	491	116,681
9 Station Percent	2.4%	82.2%	13.8%	0.5%	0.7%	0.4%	100.0%
Lines							
10 Direct Allocation	75	7,288	379	313	1	-	8,056
11 % Direct	0.9%	90.5%	4.7%	3.9%	0.0%	0.0%	100.00%
12 Unsegmented Allocation	2	148	8	6	0	-	164
13 Non-Direct Allocation	392	38,111	1,982	1,637	7	-	42,129
14 Total Line O&M	468	45,547	2,369	1,956	9	-	50,348
15 Line Percent	0.9%	90.5%	4.7%	3.9%	0.0%	0.0%	100.0%
16 Lines & Subs	3,290	141,470	18,433	2,549	797	491	167,029
17 % of Segmented Total	2.0%	84.7%	11.0%	1.5%	0.5%	0.3%	100.0%
Ancillary							
	<u>Overhead</u>	<u>Services</u>					
18 Other	48,688	52,418					

Table 4.2
Historical Operation and Maintenance (O&M) Expenses FY 2010 - FY 2016 (7 years)
Total O&M by category
(\$000)

A	B	C	D	E	F	G	H	I
	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>Average</u>
<u>O&M allocated to Lines and Stations</u>								
1 SUBSTATION OPERATIONS	20,239	21,286	21,947	21,750	22,787	23,347	23,572	22,132
2 HEAVY MOBILE EQUIPMENT MAINT	(79)	379	(0)	(125)	200	116	312	115
3 JOINT COST MAINTENANCE	97	58	146	123	134	175	230	138
4 NON-ELECTRIC MAINTENANCE	18,241	23,548	25,900	25,204	21,296	32,203	27,546	24,848
5 POWER SYSTEM CONTROL MAINT	11,579	11,958	12,637	17,623	20,791	18,939	19,095	16,089
6 ROW MAINTENANCE	7,965	10,386	5,243	7,298	7,396	6,502	7,785	7,511
7 SUBSTATION MAINTENANCE	23,809	25,522	28,056	27,726	30,365	36,926	31,125	29,076
8 SYSTEM MAINTENANCE MANAGEMENT	5,277	5,292	4,879	7,076	8,214	6,041	8,555	6,476
9 SYSTEM PROTECTION CONTRL MAINT	11,377	11,388	11,651	11,869	11,963	12,718	13,222	12,027
10 TECHNICAL TRAINING	2,588	2,530	2,443	2,211	2,087	2,317	2,719	2,414
11 TRANSMISSION LINE MAINTENANCE	21,076	22,921	24,984	26,572	27,782	27,733	25,564	25,233
12 VEGETATION MANAGEMENT	20,583	11,696	16,141	17,928	19,536	18,223	16,489	17,228
13 ENVIRONMENTAL ANALYSIS	48	21	10	0	5	19	6	16
14 POLLUTION PREVENTN & ABATEMENT	2,870	3,236	3,288	3,427	4,221	4,244	4,808	3,728
15 Subtotal Lines and Stations	145,669	150,224	157,323	168,682	176,776	189,504	181,027	167,029
<u>O&M allocated to Ancillary Services</u>								
16 CONTROL CENTER SUPPORT	11,088	14,753	13,646	14,062	19,368	20,849	23,066	16,690
17 INFORMATION TECHNOLOGY	5,334	6,768	9,098	9,115	12,522	8,103	9,436	8,625
18 POWER SYSTEM DISPATCHING	11,724	11,649	12,089	12,155	12,260	13,209	13,913	12,428
19 TECHNICAL OPERATIONS	4,557	4,725	3,816	4,410	5,854	6,288	7,750	5,343
20 SCHED-AFTER-THE-FACT	218	156	236	236	240	237	273	228
21 SCHED-MANAGE SPRVISION & ADMIN	0	(11)	0	0	0	0	0	(2)
22 SCHED-PRE-SCHEDULING	188	240	216	240	328	344	382	277
23 SCHED-REAL-TIME SCHEDULING	3,677	3,950	3,758	3,879	4,056	4,323	4,739	4,055
24 SCHED-RESERVATIONS	2,241	3,850	4,064	4,160	1,049	1,156	1,167	2,527
25 SCHED-TECHNICAL SUPPORT	1,807	1,226	948	432	3,940	3,732	3,641	2,247
26 Subtotal Ancillary Services	40,833	47,307	47,870	48,689	59,616	58,241	64,367	52,418
<u>O&M identified as Overhead</u>								
27 STRATEGIC INTEGRATION	0	0	0	0	0	585	2,414	429
28 AIRCRAFT SERVICES	1,135	1,121	1,082	1,205	1,273	1,234	1,094	1,163
29 EXECUTIVE & ADMIN SERVICES	12,407	12,179	12,204	10,364	10,318	12,727	16,630	12,404
30 GENERAL ADMINISTRATIVE	5,339	10,191	13,995	9,199	13,469	12,913	11,047	10,879
31 LEGAL SUPPORT - EXPENSE	2,305	2,609	3,034	2,240	2,586	2,250	2,611	2,519
32 LOGISTICS SERVICES	4,120	3,532	4,839	4,710	5,340	5,598	6,685	4,975
33 MKTG BUSINESS STRAT & ASSESS	6,005	6,426	6,603	6,552	6,216	6,687	6,836	6,475
34 MKTG CONTRACT MANAGEMENT	3,880	4,058	4,442	4,498	4,509	4,244	4,453	4,298
35 MKTG INTERNAL OPERATIONS	0	2	(1)	0	0	0	0	0
36 MKTG TRANSMISSION BILLING	2,048	2,226	2,229	2,528	2,358	2,414	2,318	2,303
37 MKTG TRANSMISSION FINANCE	305	270	286	(6)	0	0	0	122
38 MKTG TRANSMISSION SALES	2,356	2,319	2,787	2,509	2,418	2,354	2,299	2,435
39 SECURITY ENHANCEMENTS EXPENSE	542	482	475	705	507	1,201	889	686
40 Subtotal Overhead	40,443	45,417	51,975	44,504	48,994	52,205	57,277	48,688
41 Total Historical O&M	226,945	242,948	257,169	261,875	285,385	299,950	302,671	268,135

Table 4.3
Historical Operation and Maintenance (O&M) Expenses FY 2010 - FY 2016 (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			<u>Subtotal</u>	Non-direct Charges			<u>Subtotal</u>
	<u>Lines</u>	<u>Subs</u>	<u>Metering</u>		<u>Lines</u>	<u>Subs</u>	<u>Metering</u>	
1 SUBSTATION OPERATIONS	4	9,035	41	9,080	6	12,988	59	13,052
2 HEAVY MOBILE EQUIPMENT MAINT		3		3		112		112
3 JOINT COST MAINTENANCE		136		136		1		1
4 NON-ELECTRIC MAINTENANCE	0	9,148	18	9,166	0	15,648	34	15,683
5 POWER SYSTEM CONTROL MAINT		4,882	46	4,929		11,056	104	11,160
6 ROW MAINTENANCE 1/		36		36	7,474			7,474
7 SUBSTATION MAINTENANCE	9	17,475	66	17,549	6	11,478	43	11,526
8 SYSTEM MAINTENANCE MANAGEMENT		6		6		6,471		6,471
9 SYSTEM PROTECTION CONTRL MAINT	0	5,451	161	5,612	0	6,230	185	6,414
10 TECHNICAL TRAINING				0	359	2,040	15	2,414
11 TRANSMISSION LINE MAINTENANCE 1/	8,124			8,124	17,109			17,109
12 VEGETATION MANAGEMENT 1/	56			56	17,172			17,172
13 ENVIRONMENTAL ANALYSIS				0	2	13	0	16
14 POLLUTION PREVENTN & ABATEMENT	28	17		45		3,683		3,683
15 Total	8,220	46,190	332	54,742	42,129	69,719	440	112,288

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 (included in Gen Inputs Settlement)

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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Segmentation Details

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BP-18 Rate Case Final Proposal Segmentation Details

A		B	C	D	E
		<u>Generation Integration Facilities</u>			
	Transmission Lines	Owner	Investment (\$)	O&M (\$)	Multi %
1	ANDERSON RANCH-MOUNTAIN HOME NO 1		4,449,861	11,645	
2	BIG CLIFF-DETROIT PH NO 1		181,340	1,101	
3	BIG CLIFF-DETROIT PH NO 2		181,340	149	
4	BLACK CANYON-EMMETT NO 1		307,180	5,666	
5	BONNEVILLE PH 1-NORTH BONNEVILLE NO 1		85,578	1,685	
6	BONNEVILLE PH 1-NORTH BONNEVILLE NO 2		86,775	1,127	
7	BONNEVILLE PH 2-NORTH BONNEVILLE NO 3		98,469	485	
8	BONNEVILLE PH 2-NORTH BONNEVILLE NO 4		1,214,223	0	
9	CHANDLER TAP TO GRANDVIEW-RED MOUNTAIN NO 1		163,062	1,012	
10	CHIEF JOSEPH PH-CHIEF JOSEPH NO 1		68,924	802	
11	CHIEF JOSEPH PH-CHIEF JOSEPH NO 2		89,376	680	
12	CHIEF JOSEPH PH-CHIEF JOSEPH NO 3		82,433	191	
13	CHIEF JOSEPH PH-CHIEF JOSEPH NO 4		475,202	2,448	
14	CHIEF JOSEPH PH-CHIEF JOSEPH NO 5		439,561	1,936	
15	CHIEF JOSEPH PH-CHIEF JOSEPH NO 6		78,094	110	
16	COLUMBIA GENERATING STATION-ASHE NO 1		330,593	225	
17	COLUMBIA GENERATING STATION-ASHE NO 2		76,075	258	
18	COUGAR-THURSTON NO 1		135,487	1,678	5%
19	DETROIT PH-DETROIT NO 1		42,262	2,530	
20	DETROIT PH-DETROIT NO 2		42,262	334	
21	DETROIT-SANTIAM NO 1		1,916,208	5,588	
22	DWORSHAK PH-DWORSHAK NO 1		1,302,296	697	
23	GREEN PETER-LEBANON NO 1		357,224	5,613	35%
24	HILLS CREEK-LOOKOUT POINT NO 1		308,025	5,363	19%
25	ICE HARBOR-FRANKLIN NO 1		587,534	7,375	
26	ICE HARBOR-FRANKLIN NO 2		15,726	37	3%
27	ICE HARBOR-FRANKLIN NO 3		133,963	97	9%
28	JOHN DAY PH-JOHN DAY NO 1		485,647	462	
29	JOHN DAY PH-JOHN DAY NO 2		764,697	479	
30	JOHN DAY PH-JOHN DAY NO 3		485,647	528	
31	JOHN DAY PH-JOHN DAY NO 4		485,642	605	
32	JOHN DAY STATION SERVICE-JOHN DAY NO 1		24,389	3,405	
33	LIBBY PH-LIBBY NO 1		278,220	432	
34	LIBBY PH-LIBBY NO 2		265,855	797	
35	LITTLE GOOSE PH-LITTLE GOOSE NO 1		290,246	1,437	
36	LOOKOUT POINT PH-LOOKOUT POINT NO 1		10,253	252	
37	LOWER GRANITE PH-LOWER GRANITE NO 1		433,123	809	
38	LOWER MONUMENTAL PH-LOWER MONUMENTAL NO 1		236,523	4,256	
39	MCNARY PH-MCNARY 3&4 NO 3		135,173	141	
40	MCNARY PH-MCNARY NO 1		76,683	190	
41	MCNARY PH-MCNARY NO 2		74,361	(1,201)	
42	MCNARY PH-MCNARY NO 5		101,717	138	
43	MCNARY PH-MCNARY NO 6		112,595	346	
44	THE DALLES PH-BIG EDDY NO 1		118,075	2,241	
45	THE DALLES PH-BIG EDDY NO 2		121,407	127	
46	THE DALLES PH-BIG EDDY NO 3		107,356	190	
47	THE DALLES PH-BIG EDDY NO 4		107,351	115	
48	THE DALLES PH-BIG EDDY NO 5		116,296	167	
49	THE DALLES PH-BIG EDDY NO 6		117,572	125	
50	Subtotal Lines		18,197,902	74,873	
	Stations	Owner	Investment (\$)	O&M (\$)	Multi %
51	ALBENI FALLS SUBSTATION		365,644	7,097	25%
52	ASHE SUBSTATION		3,800,762	40,496	8%
53	BIG EDDY SUBSTATION		4,153,611	36,302	5%
54	BONNEVILLE POWERHOUSE #1		840,969	9,573	
55	CHIEF JOSEPH POWERHOUSE		102,351	8,284	
56	CHIEF JOSEPH SUBSTATION		8,407,942	176,007	23%
57	COLUMBIA GENERATING STATION SUBSTATION (ENERGY NORTHWEST)		110,860	0	
58	COUGAR SUBSTATION		255,378	8,934	
59	DETROIT SUBSTATION		1,062,141	18,159	
60	DWORSHAK POWERHOUSE		190,858	3,764	
61	DWORSHAK SUBSTATION		4,603,470	29,467	18%
62	FOSTER SUBSTATION		42,312	5,957	
63	FRANKLIN SUBSTATION		1,863,290	39,753	12%
64	GRAND COULEE 115 KV SWITCHYARD		75,243	11,370	
65	GRAND COULEE 230 KV SWITCHYARD		1,777,021	4,822	
66	GRAND COULEE 500 KV SWITCHYARD		2,080,841	12,816	
67	GREEN PETER SUBSTATION		257,380	5,042	
68	HANFORD NO.2 CONSTRUCTION SUBSTATION		66,757	5,762	
69	HILLS CREEK SUBSTATION		374,351	10,979	
70	HUNGRY HORSE POWERHOUSE		774,752	7,295	
71	HUNGRY HORSE SWITCHYARD		89,046	0	
72	ICE HARBOR POWERHOUSE		187,633	4,322	
73	JOHN DAY POWERHOUSE		276,948	1,577	
74	JOHN DAY SUBSTATION		14,395,312	135,891	29%
75	LIBBY POWERHOUSE		112,091	5,156	
76	LIBBY SUBSTATION(BPA)		2,526,733	58,772	27%
77	LITTLE GOOSE POWERHOUSE		489,782	2,798	
78	LITTLE GOOSE SUBSTATION		16,845,808	33,054	20%
79	LOOKOUT POINT POWERHOUSE		222,084	477	
80	LOOKOUT POINT SUBSTATION		1,108,549	5,855	25%
81	LOST CREEK POWERHOUSE		53,123	800	

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	A	B	C	D	E
82	LOWER GRANITE POWERHOUSE		368,331	3,545	
83	LOWER GRANITE SUBSTATION		2,444,414	29,727	25%
84	LOWER MONUMENTAL POWERHOUSE		393,152	2,548	
85	LOWER MONUMENTAL SUBSTATION		5,454,001	32,282	13%
86	MCNARY POWERHOUSE		1,080,165	10,516	
87	MCNARY SUBSTATION		4,329,757	29,877	5%
88	MINIDOKA POWERHOUSE		147,898	6,601	
89	MOUNTAIN HOME SUBSTATION(BPA)		174,369	21,367	
90	NORTH BONNEVILLE SUBSTATION		4,227,631	77,602	37%
91	PALISADES POWERHOUSE		620,267	8,264	
92	ROZA POWERHOUSE		23,450	0	
93	SACAJAWEA SUBSTATION		213,563	505	1%
94	SANTIAM SUBSTATION		1,234,040	17,539	5%
95	THE DALLES POWERHOUSE		667,344	3,253	
96	WPPSS NO. 2 POWERHOUSE		463,746	12,188	
97	Subtotal Stations		89,355,168	946,395	
98	Total Generation Integration		107,553,070	1,021,268	

Network Facilities

	Owner	Investment (\$)	O&M (\$)	Multi %
99	ABERDEEN TAP TO SATSOP PARK-COSMOPOLIS NO 1	1,597,354	4,233	
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	1,076	
103	ADDY-CUSICK NO 1	4,921,824	9,777	
104	ALBANY-BURNT WOODS NO 1	4,273,606	7,537	
105	ALBANY-EUGENE NO 1	28,866,475	37,799	
106	ALBANY-LEBANON NO 1	1,236,952	15,485	
107	ALBENI FALLS-PINE STREET NO 1	347,358	667	
108	ALBENI FALLS-SAND CREEK NO 1	11,611,060	18,396	
109	ALCOA-FELIDA NO 1	36,090	454	
110	ALLSTON-CLATSOP NO 1	2,840,810	23,689	
111	ALLSTON-DRISCOLL NO 1	1,543,552	4,982	
112	ALLSTON-DRISCOLL NO 2	2,469,163	14,688	
113	ALVEY 500/230 KV TIE LINE NO 1	347,565	347	
114	ALVEY-FAIRVIEW NO 1	32,662,372	84,095	
115	ALVEY-FAIRVIEW NO 1 (ML COOS CO)	6,142,341	0	
116	ALVEY-FAIRVIEW NO 1 (ML DOUGLAS CO)	19,708,188	0	
117	ALVEY-FAIRVIEW NO 1 (ML LANE CO)	7,935,693	0	
118	ALVEY-FAIRVIEW NO 1	33,786,222	0	
119	ALVEY-LANE NO 1	2,961,305	5,994	
120	ALVEY-MARTIN CREEK NO 1	334,244	3,732	
121	ANACONDA-SILVER BOW NO 1	696,546	7,670	
122	ANTELOPE-FOSSIL (LEASED FACILITIES)	16,642,388	0	
123	ASHE TAP TO MIDWAY-HEW NO 2	83,431	1,128	
124	ASHE-HANFORD NO 1	5,509,091	3,188	
125	ASHE-MARION NO 2	84,687,857	101,558	
126	ASHE-SLATT NO 1	25,272,636	28,851	
127	ASHE-WHITE BLUFFS NO 1	1,215,881	1,669	
128	BADGER CANYON-REATA NO 1	352,148	1,439	
129	BADGER CANYON-RICHLAND NO 1	613,499	1,797	
130	BAKERS CORNER TAP TO LEXINGTON-LONGVIEW NO 1	260,047	176	
131	BALD MOUNTAIN TAP TO UNDERWOOD TAP	119,704	30	
132	BANDON SUBSTATION TRANSFORMER TIE 1	30,869	388	
133	BANDON-ROGUE NO 1	29,246,772	24,796	
134	BELFAIR TAP TO SHELTON-KITSAP NO 2	1,313	0	
135	BELL-ADDY NO 1	6,359,844	11,361	
136	BELL-BOUNDARY NO 1	6,671,380	23,576	
137	BELL-BOUNDARY NO 3	29,224,134	54,169	
138	BELLINGHAM-CUSTER NO 1	149,475	2,329	
139	BELL-LANCASTER NO 1	2,431,074	10,327	
140	BELL-TRENTWOOD NO 1	862,401	7,651	
141	BELL-TRENTWOOD NO 2	727,261	4,128	
142	BELL-USK NO 1	1,844,972	7,311	
143	BENTON-451B NO 1	247,991	8,154	
144	BENTON-DOE B3-S4 NO 1	155,177	1,164	
145	BENTON-FRANKLIN NO 1	7,215,547	3,038	
146	BENTON-FRANKLIN NO 2	631,336	9,932	
147	BENTON-OTHELLO NO 1	4,921,504	1,182	
148	BENTON-SOOTENEY NO 1	936,782	12,116	
149	BENTON-WHITE BLUFFS NO 1	557,626	2,506	
150	BERTELSEN-WILLOW CREEK NO 1	97,254	511	
151	BETTAS ROAD-COLUMBIA NO 1	1,900,410	2,962	
152	BIG EDDY-CHEMAWA NO 1	3,481,772	39,795	
153	BIG EDDY-CHENOWETH NO 1	979,019	4,392	
154	BIG EDDY-CHENOWETH NO 2	1,455,031	2,191	
155	BIG EDDY-DE MOSS NO 1	930,199	12,527	
156	BIG EDDY-KNIGHT NO 1	32,580,711	1,975	
157	BIG EDDY-KNIGHT NO 1	143,962,990	1,975	
158	BIG EDDY-MCLOUGHLIN 1&2 NO 1	4,965,983	16,500	
159	BIG EDDY-MCLOUGHLIN 1&2 NO 2	1,764,192	6,183	
160	BIG EDDY-OSTRANDER NO 1	11,925,415	14,248	
161	BIG EDDY-REDMOND NO 1	8,293,426	79,262	
162	BIG EDDY-SPRING CREEK NO 1	3,032,156	23,329	
163	BIG EDDY-THE DALLES FISHWAY HYDRO PLANT	2,955,999	0	

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	A	B	C	D	E
164	BIG EDDY-TROUTDALE NO 1		15,432,570	98,727	
165	BLUE RIVER TAP TO COUGAR-THURSTON NO 1		58,362	5,201	
166	BOARDMAN TAP TO MCNARY-JONES CANYON NO 1		61,136	315	
167	BOARDMAN-ALKALI NO 1		645,689	1,309	
168	BOARDMAN-IONE NO 1		912,916	6,404	
169	BONNEVILLE PH 1-HOOD RIVER NO 1		4,224,700	27,741	
170	BONNEVILLE PH 1-NORTH CAMAS NO 1		453,835	4,043	
171	BONNEVILLE PH1-ALCOA 1&2		2,288,561	6,904	
172	BOTHELL-SAMMAMISH (PSE)		575,499	0	
173	BOTHELL-SNO-KING NO 1		415,901	18	
174	BOTHELL-SNO-KING NO 2		754,308	342	
175	BOUNDARY-NELWAY 1		401,084	2,565	
176	BOUNDARY-WANETA 1		117,328	196	
177	BOYER-TILLAMOOK NO 1		10,290,453	16,348	
178	BRASADA-HARNEY NO 1		4,325,935	45,678	
179	BRONX-SAND CREEK NO 1		2,622,656	786	
180	BUCKLEY-GRIZZLY NO 1		7,514,539	10,756	43%
181	BUCKLEY-MARION NO 1		21,425,547	15,403	50%
182	BURBANK TAP TO FRANKLIN-WALLA WALLA NO 1		2,665	184	
183	CALPINE-MCNARY NO 1		428,117	3,119	
184	CANAL-SECOND LIFT NO 1		25,231	661	
185	CANAL-SECOND LIFT NO 2		19,804	246	
186	CANBY TAP TO MALIN-HILLTOP NO 1		2,168,321	4,816	
187	CARDWELL-COWLITZ NO 1		4,101,191	1,772	
188	CARLTON-MCMINNVILLE NO 1		463,769	428	
189	CARLTON-SHERWOOD NO 1		2,108,150	2,989	
190	CARLTON-TILLAMOOK NO 1		9,080,674	33,219	
191	CARSON TAP TO UNDERWOOD TAP		267,329	492	
192	CASCADE LOCKS TAP TO BONNEVILLE PH 1-HOOD RIVER NO 1		108,499	650	
193	CATTLE CREEK-GOSHEN NO 1		4,437,654	0	
194	CENTRAL FERRY-LOWER MONUMENTAL NO 1		85,148,096	1,403	
195	CENTRALIA TAP TO CHEHALIS-COVINGTON NO 1		1,162	300	
196	CENTRALIA-MAY STREET NO 1		167,108	610	
197	CGS BACKUP BANK TAP TO BENTON - 451B NO 1		76,019	1,859	
198	CGS2 BACKUP TAP TO HANFORD NO 2 CONSTRUCTION TAP		148,476	0	
199	CHEHALIS-CENTRALIA NO 1		5,126,661	3,291	
200	CHEHALIS-CENTRALIA NO 2		7,559,213	6,845	
201	CHEHALIS-COVINGTON NO 1		2,235,062	201,033	
202	CHEHALIS-MAYFIELD NO 1		1,665,692	10,041	
203	CHEHALIS-OLYMPIA NO 1		3,779,862	16,198	
204	CHEHALIS-RAYMOND NO 1		15,442,914	22,752	
205	CHEMAWA-SALEM ALUMINA NO 1		324,986	2,753	
206	CHEMAWA-SALEM NO 1		4,818,149	3,004	
207	CHEMAWA-SALEM NO 2		302,519	928	
208	CHENEY TAP TO SILVER LAKE-SUNSET		391,745	7,635	
209	CHENOWETH-GOLDENDALE NO 1		2,167,435	12,306	
210	CHIEF JOSEPH-EAST OMAK NO 1		5,148,496	17,926	
211	CHIEF JOSEPH-MONROE NO 1		23,730,487	70,439	
212	CHIEF JOSEPH-SICKLER NO 1		5,357,719	25,993	
213	CHIEF JOSEPH-SNOHOMISH NO 3		8,128,843	22,843	
214	CHIEF JOSEPH-SNOHOMISH NO 4		9,240,347	37,415	
215	CHRISTMAS VALLEY TAP TO BRASADA-HARNEY NO 1		1,640	0	
216	COLUMBIA FALLS-CONKELLEY NO 1		72,714	1,472	
217	COLUMBIA FALLS-FLATHEAD NO 1		756,209	6,177	
218	COLUMBIA FALLS-KALISPELL NO 1		590,109	6,631	
219	COLUMBIA FALLS-TREGO NO 1		1,725,525	27,284	
220	COLUMBIA-ELLENSBURG NO 1		6,426,552	12,876	
221	COLUMBIA-GRAND COULEE NO 1		1,417,945	19,616	
222	COLUMBIA-GRAND COULEE NO 3		1,722,738	12,423	
223	COLUMBIA-VALHALLA NO 1		347,405	4,659	
224	COLUMBIA-VALHALLA NO 2		671,743	3,277	
225	COLVILLE-BOUNDARY NO 1		4,912,891	7,363	
226	COLVILLE-REPUBLIC NO 1		11,433,548	27,930	
227	CONNELL TAP TO BENTON-SOOTENEY NO 1		190,017	1,967	
228	COSMOPOLIS-ABERDEEN NO 1		6,928	241	
229	COUGAR-THURSTON NO 1		2,365,270	29,301	95%
230	COVINGTON SUBSTATION TIE NO 2		17,720	352	
231	COVINGTON-BETTAS ROAD NO 1		1,716,558	18,618	
232	COVINGTON-CRESTON SCL NO 1		398,640	5,163	
233	COVINGTON-DUWAMISH NO 1		752,610	4,548	
234	COVINGTON-MAPLE VALLEY NO 2		1,129,206	12,032	
235	COVINGTON-WHITE RIVER NO 1		216,902	3,825	
236	COWLITZ TAP TO CHEHALIS-COVINGTON NO 1		2,160,377	6,573	
237	COYOTE SPRINGS-SLATT NO 1		2,352,112	7,802	88%
238	CRESTON-BELL NO 1		28,300,710	12,583	
239	CRESWELL TAP TO ALVEY-MARTIN CREEK NO 1		92,141	0	
240	CUSTER-INGLEDOW NO 1		7,036,672	4,490	
241	CUSTER-INGLEDOW NO 2		1,768,518	5,980	
242	CUSTER-INTALCO NO 1		497,585	6,140	

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	A	B	C	D	E
243	CUSTER-INTALCO NO 2		531,003	4,349	
244	DAVIS CREEK TAP TO MILE-HI-ALTURAS		208,342	9,144	
245	DE MOSS-FOSSIL NO 1		5,559,275	33,959	
246	DEXTER TAP TO LOOKOUT POINT-ALVEY NO 1		75,069	1,303	
247	DISCOVERY-CHENOWETH NO 1		8,490	818	
248	DORENA TAP TO ALVEY-MARTIN CREEK NO. 1		221,415	2,861	
249	DRAIN-ELKTON NO 1		843	0	
250	DRAIN-OAKLAND NO 1		843	0	
251	DRISCOLL TAP TO ALLSTON-CLATSOP NO 1		1,683,694	0	
252	DRISCOLL-ASTORIA NO 1		2,465,769	4,422	
253	DRISCOLL-NASELLE NO 1		4,352,081	25,548	
254	DRISCOLL-WAUNA NO 1		27,438	95	
255	DRUMMOND - MACKS INN NO 1		494,526	59,468	
256	DUTCH CANYON TAP TO ST JOHNS-ST HELENS NO 1		139	0	
257	DWORSHAK PH-OROFINO NO 1		205,764	2,710	
258	DWORSHAK-TAFT NO 1		22,142,915	50,547	
259	EAST ELLENSBURG TAP TO COLUMBIA-ELLENSBURG NO 1		345,448	937	
260	EAST ELLENSBURG TAP TO COLUMBIA-ELLENSBURG NO 1 (KITITITAS CO)		473,222	0	
261	EAST ELLENSBURG TAP TO COLUMBIA-ELLENSBURG NO 1		818,670	937	
262	EAST OMAK TAP TO GRAND COULEE-FOSTER CREEK NO 1		5,127,081	4,208	
263	EAST OMAK-OROVILLE NO 1		13,684	5,828	
264	EAST OMAK-TONASKET NO 2		13,691	3,544	
265	ECHO LAKE - MAPLE VALLEY NO 1 & 2		11,222,945	43,939	
266	ECHO LAKE-MONROE NO 1		4,938,957	18,598	
267	ELBE TAP TO ALDER-LAGRANDE NO1,2		1,898,624	3,603	
268	ELLENSBURG-MOXEE NO 1		4,566,735	20,378	
269	ELTOPIA TAP TO SMITH CANYON-REDD		415,578	1,138	
270	EUGENE-ALDERWOOD NO 1		3,965,075	14,067	
271	EUGENE-ALVEY NO 2		1,724,238	8,589	
272	EUGENE-BERTELSSEN NO 1		164,905	1,862	
273	EUGENE-LANE NO 1		122,059	3,944	
274	FAIRMOUNT-PORT ANGELES NO 1		1,878,901	9,111	
275	FAIRMOUNT-PORT ANGELES NO 2		1,529,338	15,195	
276	FAIRVIEW-BANDON NO 1		2,210,238	29,967	
277	FAIRVIEW-BANDON NO 2		2,199,172	8,939	
278	FAIRVIEW-ROGUE NO 1		6,893,302	37,445	
279	FIDALGO-LOPEZ ISLAND NO 3		1,929,609	1,309	
280	FIDALGO-LOPEZ ISLAND NO 4		4,794,685	0	
281	FIDALGO-LOPEZ ISLAND NO 5		13,833,755	850	
282	FILBERT TAP TO FOREST GROVE-MCMINNVILLE NO 1		290,501	130	
283	FLATHEAD-HOT SPRINGS NO 1		3,257,393	15,908	
284	FORDS PRAIRIE TAP TO CHEHALIS-CENTRALIA NO 2		23,009	179	
285	FOREST GROVE-TILLAMOOK NO 1		36,019,845	22,848	
286	FOSTER TAP TO GREEN PETER-LEBANON NO 1		276,039	3,782	
287	FOUR LAKES TAP TO SUNSET-EAST COLFAX		324,135	5,836	
288	FRANKLIN-BADGER CANYON NO 1		1,733,993	6,110	
289	FRANKLIN-BADGER CANYON NO 2		2,321,836	10,837	
290	FRANKLIN-HEDGES NO 1		305,077	1,246	
291	FRANKLIN-RUBY STREET NO 1		1,347,949	1,735	
292	FRANKLIN-WALLA WALLA NO 1		6,551,740	10,214	
293	FROMAN TAP TO ALBANY-LEBANON NO 1		592,229	557	
294	GARRISON-ANACONDA NO 1		5,184,668	16,985	
295	GARRISON-TAFT NO 1		86,218,545	120,568	
296	GARRISON-TAFT NO 2		86,218,545	89,281	
297	GLADE TAP TO BENTON-FRANKLIN NO 2		716	197	
298	GOSHEN-DRUMMOND NO 1		11,345,516	53,960	
299	GRAND COULEE-BELL NO 3		15,988,251	39,954	
300	GRAND COULEE-BELL NO 5		4,269,127	20,936	
301	GRAND COULEE-BELL NO 6		104,017,288	18,900	
302	GRAND COULEE-CHIEF JOSEPH NO 1		1,852,797	10,373	
303	GRAND COULEE-CHIEF JOSEPH NO 2		2,372,940	12,744	
304	GRAND COULEE-CHIEF JOSEPH NO 3		4,100,432	7,170	
305	GRAND COULEE-CRESTON NO 1		11,375,810	5,713	
306	GRAND COULEE-FOSTER CREEK NO 1		1,335,546	12,359	
307	GRAND COULEE-HANFORD NO 1		12,282,324	61,530	
308	GRAND COULEE-OKANOGAN NO 2		2,703,366	42,979	
309	GRAND COULEE-SCHULTZ NO 1		31,696,784	58,206	
310	GRAND COULEE-SCHULTZ NO 2		30,625,010	10,559	
311	GRAND COULEE-WESTSIDE(AVA) NO 1		11,814,766	8,999	
312	GRANDE ROND-BOYER NO 1		1,364,413	2,749	
313	GRANDVIEW-RED MOUNTAIN NO 1		2,033,481	9,544	
314	GREEN BLUFF TAP TO BELL-TRENTWOOD NO 2		501,310	1,894	
315	GREEN PETER-LEBANON NO 1		666,893	10,478	65%
316	GRIZZLY-SUMMER LAKE NO 1		14,696,081	15,076	43%
317	GROUSE CREEK-TECOMA (LEASED FACILITIES)		1,919,106	0	94%
318	HANFORD-WAUTOMA NO 1		3,298,689	2,290	
319	HANFORD-WAUTOMA NO 2		2,850,843	2,674	
320	HARRISBURG TAP TO ALBANY-EUGENE NO 1		15,159	124	
321	HARVALUM-BIG EDDY NO 1		10,448,126	4,929	
322	HAT ROCK TAP TO MCNARY-WALLULA		117,346	434	
323	HATTON TAP TO CONNELL TAP		1,062,007	5,925	
324	HATWAI-DWORSHAK NO 1		6,688,529	31,621	
325	HAWKINS-ALVEY NO 1		389,274	5,212	
326	HEBO TAP TO BOYER-TILLAMOOK NO 1		1,872	34	
327	HEDGES TAP TO FRANKLIN-BADGER CANYON NO 2		197,981	235	
328	HEYBURN-ADELAIDE NO 1		3,962,653	4,125	
329	HIDEAWAY TAP TO HAWKINS-ALVEY NO 1		505	151	

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	A	B	C	D	E
330	HILLS CREEK-LOOKOUT POINT NO 1		1,286,760	22,405	81%
331	HILLTOP-WARNER NO 1		4,850,007	4,623	
332	HOLCOMB TAP TO CHEHALIS-RAYMOND NO 1		343,953	445	
333	HOLCOMB-NASELLE NO 1		3,129,673	18,092	
334	HOOD RIVER-THE DALLES NO 1		3,510,869	4,401	
335	HORN BUTTE TAP TO TOWER ROAD-ALKALI NO 1		339,950	239	
336	HORSE HEAVEN-HARVALUM NO 1		773,114	15,731	
337	HORSE RANCH TAP TO MONROE-SNOHOMISH NO 1&2		297,055	0	
338	HOT SPRINGS 500-230KV TIE NO 1		37,012	498	
339	HOT SPRINGS-RATTLESNAKE NO 1		6,966,371	55,465	
340	HUNGRY HORSE-COLUMBIA FALLS NO 1		4,979,851	1,742	
341	HUNGRY HORSE-CONKELLEY NO 1		981,905	1,760	
342	ICE HARBOR-FRANKLIN NO 2		554,825	1,301	97%
343	ICE HARBOR-FRANKLIN NO 3		1,331,565	963	91%
344	JACKSON TAP TO CANAL-SECOND LIFT NO. 2		54,669	337	
345	JOHN DAY-BIG EDDY NO 2		5,737,346	2,656	
346	JOHN DAY-MARION NO 1		18,300,579	59,639	
347	JONES CANYON-SANTIAM NO 1		11,608,074	44,715	
348	JUNCTION CITY TAP TO ALBANY-EUGENE NO 1		2,182	174	
349	KALISPELL-KERR NO 1		1,401,944	30,612	
350	KEELER-ALLSTON NO 1		5,141,827	14,301	
351	KEELER-FOREST GROVE NO 1		4,928,249	25,596	
352	KEELER-FOREST GROVE NO 2		728,463	4,694	
353	KEELER-OREGON CITY NO 2		1,824,476	8,465	
354	KELLER TAP TO GRAND COULEE-OKANOGAN NO 2		4,911,159	17,650	
355	KENNEWICK TAP TO FRANKLIN-BADGER CANYON NO 2		38,892	909	
356	KERR SUB TIE TO US ITS MP CO.115KV		51,424	739	
357	KITSAP-BANGOR NO 1		637,130	8,053	
358	KITSAP-STATION X NO 1		287,016	1,305	
359	KLONDIKE SCHOOLHOUSE-JOHN DAY NO 1		9,759,776	1,758	
360	LA PINE-CHILOQUIN NO 1		3,979,909	20,743	
361	LA PINE-FORT ROCK NO 1		10,741,655	29,471	
362	LANCASTER-NOXON NO 1		5,550,404	26,410	
363	LANE-WENDSON NO 1		3,917,828	37,563	
364	LANE-WENDSON NO 2		2,305,561	25,970	
365	LANGLOIS TAP TO BANDON-ROGUE NO 1		26,655	1,468	
366	LATHAM TAP TO ALVEY-MARTIN CREEK NO 1		1,396,672	1,660	
367	LEXINGTON-DELAMETER NO 1		144,674	0	
368	LEXINGTON-LONGVIEW NO 1		1,063,565	6,557	
369	LEXINGTON-LONGVIEW NO 2		1,798,427	7,572	
370	LIBBY-BONNERS FERRY NO 1		26,872,708	105,687	
371	LIBBY-CONKELLEY NO 1		9,627,742	37,024	
372	LITTLE GOOSE-CENTRAL FERRY NO 2		11,183,170	3,473	
373	LITTLE GOOSE-LOWER GRANITE NO 1		8,795,905	13,545	
374	LITTLE GOOSE-LOWER GRANITE NO2		529,532	0	
375	LONGVIEW-ALLSTON NO 1		333,525	6,583	
376	LONGVIEW-ALLSTON NO 2		69,437	6,844	
377	LONGVIEW-ALLSTON NO 3		1,078,592	5,253	
378	LONGVIEW-ALLSTON NO 4		658,953	17,896	
379	LONGVIEW-BAKERS CORNER (COWLITZ PUD LINE)		32,177	52	
380	LONGVIEW-CHEHALIS NO 1 & 3		3,713,233	262,105	
381	LONGVIEW-COWLITZ NO 1		597,381	3,704	
382	LONGVIEW-WASHINGTON WAY NO 1		629,897	0	
383	LOOKOUT POINT-ALVEY NO 1		941,172	11,610	
384	LOOKOUT POINT-ALVEY NO 2		891,405	7,774	
385	LOPEZ ISLAND-DECATUR NO 1		773,159	0	
386	LOST RIVER-SPAR CANYON NO 1		5,518,064	66,141	
387	LOWER GRANITE-HATWAI NO 1		8,752,289	24,429	
388	LOWER MONUMENTAL-ASHE NO 1		11,094,886	25,183	
389	LOWER MONUMENTAL-HANFORD NO 1		6,499,644	14,854	
390	LOWER MONUMENTAL-LITTLE GOOSE NO 1		3,506,619	13,378	
391	LOWER MONUMENTAL-LITTLE GOOSE NO 2		4,065,611	6,496	
392	LOWER MONUMENTAL-MCNARY NO 1		11,735,742	26,428	
393	LYNCH CREEK TAP TO CANYON-LAGRANDE NO 1,2		1,053,417	4,253	
394	MACKS INN-MADISON NO 1		3,815,255	21,553	
395	MALIN-HILLTOP NO 1		6,741,801	39,376	
396	MAPLE VALLEY-DUWAMISH NO 1		73,304	603	
397	MAPLE VALLEY-MASSACHUSETTS NO 1		23,317	197	
398	MARION-ALVEY NO 1		4,456,110	14,597	50%
399	MARION-LANE NO 1		8,713,787	30,007	
400	MARION-SANTIAM NO 1		619,487	744	
401	MARTIN CREEK TAP TO ALVEY-FAIRVIEW NO 1		11,094	389	
402	MARTIN CREEK-DRAIN NO 1		1,223,701	7,366	
403	MAUPIN-ANTELOPE (LEASED FACILITIES)		894,251	0	
404	MAUPIN-TYGH VALLEY NO 1		4,394,356	1,710	
405	MCCULLOUGH TAP TO COWLITZ-LAGRANDE NO 1,2		459,238	4,967	
406	MCNARY-BADGER CANYON NO 1		7,775,605	6,524	
407	MCNARY-COYOTE SPRINGS NO 1		2,077,323	7,617	
408	MCNARY-FRANKLIN NO 2		1,875,826	14,774	
409	MCNARY-HORSE HEAVEN NO 1		13,284,119	5,256	
410	MCNARY-JOHN DAY NO 2		135,877,032	11,046	
411	MCNARY-JONES CANYON NO 1		242,293	0	
412	MCNARY-MORROW FLAT NO 1		6,115,820	6,134	
413	MCNARY-MORROW FLAT NO 2		6,939,217	2,430	
414	MCNARY-ROSS NO 1		16,999,673	62,391	
415	MCNARY-ROUNDUP NO 1		1,519,534	13,935	
416	MIDWAY-BENTON NO 1		16,610,793	5,331	

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	A	B	C	D	E
417	MIDWAY-BENTON NO 2		1,944,282	3,973	
418	MIDWAY-GRANDVIEW NO 1		1,254,400	20,123	
419	MIDWAY-MOXEE NO 1		1,385,757	17,753	
420	MIDWAY-POTHOLES NO 1		765,882	21,141	
421	MIDWAY-ROCKY FORD NO 1		1,620,448	17,035	
422	MIDWAY-VANTAGE NO 1		9,948,980	8,591	
423	MILTON TAP TO WALLA WALLA-PENDLETON NO 1		2,196,321	1,410	
424	MINIDOKA PH-UNITY NO 1		2,240,443	29,565	
425	MINIDOKA SUB TAP TO DUFN43		1,099,937	65	
426	MIST TAP TO ALLSTON-DRISCOLL NO 2		9,302	1,054	
427	MONROE-CUSTER NO 1		20,992,448	66,069	
428	MONROE-CUSTER NO 2		8,704,892	45,799	
429	MONROE-NOVELTY HILL NO.1		1,736,161	0	
430	MONROE-SNOHOMISH NO 1 & 2		1,590,606	3,844	
431	MORROW FLAT-BOARDMAN NO 1		3,061,657	0	
432	MORROW FLAT-JONES CANYON NO 1		2,646,103	0	
433	MOSSYROCK-CHEHALIS NO 1		1,091,456	8,195	
434	MOUNTAIN AVENUE TAP TO (PACIFICORP) ASHLAND-OAK KNOLL		699,915	1,591	
435	MOXEE-ROZA NO 1		23,832	8,857	
436	MT SI-TANNER NO 1		6,226,960	1,695	
437	MT. VERNON TAP TO LOOKOUT POINT-ALVEY NO 2		68,601	1,334	
438	MURRAY-CUSTER NO 1		3,979,487	17,831	
439	NAPAVINE-ALLSTON NO 1		9,000,240	11,665	
440	NASELLE-TARLETT NO 1		2,687,640	17,767	
441	NASELLE-TARLETT NO 2		3,909,346	8,747	
442	NESPELEM TAP TO GRAND COULEE-OKANOGAN		579	0	
443	NINE MILE TAP TO FRANKLIN-WALLA WALLA NO 1		40,788	129	
444	NORTH BONNEVILLE-MIDWAY NO 1		9,986,516	53,237	
445	NORTH BONNEVILLE-ROSS NO 1		2,635,550	7,614	
446	NORTH BONNEVILLE-ROSS NO 2		1,843,674	50,308	
447	NORTH BONNEVILLE-TROUTDALE NO 1		2,888,783	6,585	
448	NORTH BONNEVILLE-TROUTDALE NO 2		2,881,488	5,616	
449	NORTH CAMAS-OAK PARK NO 1		233,304	1,196	
450	NORTH CAMAS-SIFTON NO 1		357,536	1,740	
451	NORTH MOUNTAIN-SNOHOMISH NO 1		149,405	319	
452	NOXON-HOT SPRINGS NO 1		3,019,998	34,440	
453	NOXON-LIBBY NO 1		2,845,525	37,288	
454	OLYMPIA 500-230 TIE LINE 1		992,129	0	
455	OLYMPIA-GRAND COULEE NO 1		22,668,767	110,040	
456	OLYMPIA-KITSAP NO 3		4,175,124	5,796	
457	OLYMPIA-SATSOP NO 2		3,893,068	3,812	
458	OLYMPIA-SATSOP NO 3		4,021,560	3,682	
459	OLYMPIA-SHELTON NO 1		349,473	3,249	
460	OLYMPIA-SHELTON NO 2		1,643,820	9,344	
461	OLYMPIA-SHELTON NO 3		3,305,936	5,609	
462	OLYMPIA-SHELTON NO 4		3,193,787	5,821	
463	OLYMPIA-SHELTON NO 5		8,848,327	6,501	
464	OLYMPIA-SOUTH ELMA NO 1		1,061,723	8,628	
465	OLYMPIA-ST CLAIR NO 1		10,977,501	9,796	
466	OREGON CITY-CANBY PGE NO 1		473,424	1,374	
467	OREGON CITY-CHEMAWA NO 1		35,890	0	
468	OREGON CITY-CHEMAWA NO 2		2,924,884	34,870	
469	OSTRANDER-MCLOUGHLIN NO 1		1,415,214	4,138	
470	OSTRANDER-PEARL NO 1		2,001,443	19,641	
471	OSTRANDER-TROUTDALE NO 1		9,236,625	19,622	
472	PALISADES-CATTLE CREEK NO 1		19,859,629	23,300	
473	PALISADES-SWAN VALLEY NO 1		2,340,776	31,829	
474	PARKER TAP TO EUGENE-ALDERWOOD NO 1		9,970	139	
475	PAUL D. JOHNSON TAP TO ROSS-VANCOUVER SHIPYARD NO. 1		180,120	0	
476	PAUL-ALLSTON NO 2		9,278,477	33,745	
477	PAUL-NAPAVINE NO 1		1,699,815	9,040	
478	PAUL-OLYMPIA NO 1		3,514,676	9,912	
479	PAUL-SATSOP NO 1		30,139,100	22,064	
480	PEARL-KEELER NO 1		2,245,471	9,392	
481	PEARL-MARION NO 1		5,754,195	74,087	
482	PEARL-SHERWOOD NO. 1 & 2		1,503,457	1,999	
483	PILOT BUTTE-LA PINE NO 1		2,545,896	18,316	
484	POMEROY TAP TO TUCANNON RIVER-NORTH LEWISTON NO 1		29,550	322	
485	PONDEROSA-PILOT BUTTE NO 1		5,666,359	17,349	
486	PORT ANGELES-SAPPHO NO 1		3,108,607	31,936	
487	POTHOLES-GRAND COULEE NO 1		1,377,363	11,711	
488	POTLATCH TAP TO SHELTON-FAIRMOUNT NO 1		6,824	320	
489	POWERLINE TAPS TO DIAMOND HILL-COBURG		81,433	0	
490	PRIEST RIVER TAP TO ALBENI FALLS-SAND CREEK NO 1		297,117	3,170	
491	PROSSER TAP TO GRANDVIEW-RED MOUNTAIN NO 1		720,575	6,600	
492	RADAR TAP (USBR) TO SCOOTENEY TAP		65,675	2,219	
493	RAINBOW VALLEY TAP TO LANE-WENDSON NO 1		494,945	2,494	
494	RALSTON TAP TO EAST COLFAX-LIND		532,216	1,410	
495	RATTLESNAKE-GARRISON NO 1		2,391,146	33,820	
496	RAVER TAP TO SCHULTZ-ECHO LAKE NO 1		922,569	1,049	
497	RAVER-COVINGTON NO 1		2,290,045	9,625	
498	RAVER-COVINGTON NO 2		1,295,592	7,446	
499	RAVER-ECHO LAKE NO 1		2,190,125	5,100	
500	RAVER-PAUL NO 1		961,923	0	
501	RAYMOND-COSMOPOLIS NO 1		10,746,393	6,545	
502	RAYMOND-HENKLE ST. NO 1		227,205	940	
503	RAYMOND-WILLAPA RIVER NO 1		771,442	6,922	

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504	RED MOUNTAIN-RICHLAND NO 1		438,307	3,281	
505	RED MOUNTAIN-WHITE BLUFFS NO 1		1,262,060	5,311	
506	REDMOND SUBSTATION 230/115KV TIE NO 1		315,227	73	
507	REDMOND-BRASADA NO 1		169,035	4,025	
508	REDMOND-PILOT BUTTE NO 1		752,928	13,869	
509	REEDSPORT-FAIRVIEW NO 1		8,196,656	38,700	
510	RESTON-FAIRVIEW NO 2		1,801,177	16,709	
511	RIVERGATE-KEELER NO 1		512,780	1,429	
512	RIVERLAND-MIDWAY NO 1		21,591	1,465	
513	ROCK CREEK-JOHN DAY NO 1		6,249,974	4,320	
514	ROCKY FORD-GRAND COULEE NO 1		1,627,129	5,122	
515	ROCKY REACH-COLUMBIA NO 1		1,231,827	8,312	
516	ROCKY REACH-MAPLE VALLEY NO 1		15,224,183	156,649	
517	ROE'S CORNER TAP TO HEYBURN-ADELAIDE NO 1		1,116,651	1,316	
518	ROGUE-GOLD BEACH NO 1		3,485,431	2,755	
519	ROGUE-GOLD BEACH NO 2		4,840,521	10,592	
520	ROSS-ALCOA NO 2 & 4 (ROSS-ALCOA NO 2 SECTION)		136,560	198	
521	ROSS-ALCOA NO 3		1,252,366	914	
522	ROSS-CARBORUNDUM NO 1		131,508	1,232	
523	ROSS-LEXINGTON NO 1		2,614,157	32,158	
524	ROSS-RIVERGATE NO 1		558,459	19,359	
525	ROSS-ST JOHNS NO 1		1,623,574	14,613	
526	ROSS-VANCOUVER SHIPYARD NO 1		429,666	1,426	
527	ROUNDUP-LAGRANDE NO 1		2,443,229	28,268	
528	SACAJAWEA TAP TO ICE HARBOR-FRANKLIN NO 2		217,457	619	
529	SACAJAWEA TAP TO LOWER MONUMENTAL-MCNARY NO 1		2,175,455	2,737	
530	SACHEEN-ALBENI FALLS NO 1		1,142,429	9,164	
531	SALEM-ALBANY NO 1		1,478,512	15,066	
532	SALEM-ALBANY NO 2		1,285,126	12,105	
533	SALEM-GRAND RONDE NO 1		5,225,130	9,892	
534	SAMMAMISH-MAPLE VALLEY NO 1		1,801,866	0	
535	SAND CREEK-BONNERS FERRY NO. 1 & 2		13,316,799	21,574	
536	SANTIAM SUBSTATION TRANSF BAY TAP TO SANTIAM-ALBANY NO 1		2,323,017	64	
537	SANTIAM-ALBANY NO 1		984,717	11,248	
538	SANTIAM-ALVEY 1 & 2		6,327,867	33,919	
539	SANTIAM-BETHEL NO 1		12,617,338	2,068	
540	SANTIAM-CHEMAWA NO 1		1,744,710	4,177	
541	SANTIAM-TOLEDO NO 1		8,383,538	39,841	
542	SATSOP PARK-COSMOPOLIS NO 1		1,210,773	8,005	
543	SATSOP-ABERDEEN NO 2		5,398,614	11,026	
544	SATSOP-ABERDEEN NO 3		2,402,175	8,867	
545	SATSOP-SHELTON NO 1		8,545,232	0	
546	SCHRAG TAP TO RUFF-WARDEN		765,888	1,969	
547	SCHULTZ-ECHO LAKE NO 1		65,603,696	26,883	
548	SCHULTZ-RAVER NO 1		29,438,856	21,070	
549	SCHULTZ-RAVER NO 3		10,273,142	27,486	
550	SCHULTZ-RAVER NO 4		11,338,901	21,244	
551	SCHULTZ-WAUTOMA NO 1		95,466,530	59,865	
552	SCOOTENEY TAP TO MIDWAY-BENTON NO 1		1,107,361	9,636	
553	SHELTON-FAIRMOUNT NO 1		5,252,766	50,324	
554	SHELTON-FAIRMOUNT NO 2		3,590,571	17,871	
555	SHELTON-FAIRMOUNT NO 3		3,179,420	10,420	
556	SHELTON-FAIRMOUNT NO 4		2,926,202	14,464	
557	SHELTON-KITSAP NO 2		9,743,861	7,244	
558	SHELTON-KITSAP NO 3		404,156	8,761	
559	SHELTON-KITSAP NO 4		4,172,674	9,300	
560	SHELTON-SOUTH BREMERTON NO 1		9,302,539	2,811	
561	SHULTZ-RAVER NO 4		706,365	0	
562	SICKLER-SCHULTZ NO 1		11,725,105	8,495	
563	SIFTON TAP TO N. BONN-ROSS 2		222,180	0	
564	SIFTON TAP TO NORTH BONNEVILLE-ROSS NO 1		222,180	562	
565	SIFTON-FISHERS ROAD NO 1		55,704	717	
566	SIFTON-LACAMAS NO 1		354	969	
567	SIFTON-ROSS NO 1		356,952	1,306	
568	SILVERADO TAP TO PORT ANGELES-SAPPHO NO 1		458,627	2,322	
569	SLATT-BUCKLEY NO 1		21,181,550	34,198	
570	SLATT-JOHN DAY NO 1		4,797,158	24,214	93%
571	SNOHOMISH-BEVERLY PARK NO 3		351,556	808	
572	SNOHOMISH-BEVERLY PARK NO 4		424,652	1,374	
573	SNOHOMISH-BOTHELL NO 1		472,423	5,003	
574	SNOHOMISH-BOTHELL NO 2		148,752	1,056	
575	SNOHOMISH-EVERETT		446,037	2,159	
576	SNOHOMISH-MURRAY NO 1		481,258	11,198	
577	SNOHOMISH-PUD NO 9		2,362,466	929	
578	SNOHOMISH-PUD NO. 8		2,377,231	947	
579	SNO-KING TAP TO ECHO LAKE-MONROE NO 1		5,042,814	20,052	
580	SNO-KING-MAPLE VALLEY NO 1		1,845,243	693	
581	SNO-KING-MAPLE VALLEY NO. 2		651,009	201	
582	SOUTH ELMA-SATSOP PARK NO 1		234,698	6,341	
583	SOUTH FORK TAP TO FOREST GROVE-TILLAMOOK NO 1		9,989	0	
584	SOUTH TACOMA-SOUTHWEST NO 1		1,251,272	5,653	
585	SOUTH TACOMA-WHITE RIVER NO 1		339,175	6,175	
586	SPAR CANYON - ROUND VALLEY		1,264,435	9,183	
587	SPEARFISH TAP TO CHENOWETH-GOLDENDALE NO 1		113,617	2,132	
588	SPIRIT TAP TO COLVILLE-BOUNDARY NO 1		928,401	2,716	
589	SPRING CREEK-WINE COUNTRY NO 1		3,820,777	11,627	
590	ST HELENS-ALLSTON NO 1		5,360,149	11,888	

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	A	B	C	D	E
591	ST JOHNS TAP TO KEELER-OREGONCITY NO 2		2,120	0	
592	ST JOHNS-KEELER NO 2		571,147	9,716	
593	ST JOHNS-ST HELENS NO 1		2,198,570	14,985	
594	SWAN VALLEY-GOSHEN NO 1		4,307,957	17,181	
595	SWAN VALLEY-TETON NO 1		2,778,703	19,520	
596	SWAN VALLEY-TETON NO 2		20,063,681	12,151	
597	SWIFT TAP TO ROSS-LEXINGTON NO 1		17,434	745	
598	T3BADAS TAP TO SHELTON-FAIRMONT NO 2 (MASON COUNTY PUD NO		423,156	0	
599	TACOMA-COVINGTON NO 2		1,907,335	6,454	
600	TACOMA-COVINGTON NO 3		1,240,294	6,939	
601	TACOMA-COVINGTON NO 4		1,240,294	6,652	
602	TACOMA-RAVER NO 1&2		6,899,623	21,704	
603	TAFT-BELL NO 1		84,342,970	50,148	
604	TAFT-HOT SPRINGS NO 1		11,863,226	78,679	
605	TAHKENITCH-GARDINER NO 1		663,327	3,623	
606	TAHKENITCH-REEDSPORT NO 1		462,340	9,511	
607	TARGHEE TAP TO SWAN VALLEY-TETON NO 1		962,039	16,382	
608	TARGHEE-DRUMMOND NO 1		114,986	64,365	
609	THATCHER JUNCTION TAP TO FOREST GROVE-TILLAMOOK NO 1		1,689	0	
610	THE DALLES-DISCOVERY NO 1		221,839	9,984	
611	THURSTON-MCKENZIE NO 1		2,435,522	3,007	
612	TILLAMOOK-TRASK RIVER NO 1		358,808	261	
613	TIMBER TAP TO FOREST GROVE-TILLAMOOK NO 1		661,575	12,890	
614	TOLEDO-WENDSON NO 1		5,931,612	45,815	
615	TOWER ROAD-ALKALI NO 1		430,310	2,048	
616	TRENTWOOD-VALLEY WAY NO 1		358,267	2,306	
617	TROJAN-ALLSTON NO 1		1,595,833	1,783	
618	TROJAN-ALLSTON NO 2		1,584,040	493	
619	TUCANNON RIVER-NORTH LEWISTON NO 1		11,818,725	15,937	
620	UNDERWOOD TAP NO 1		1,486,787	12,075	
621	UNITY-HEYBURN NO 1		560,894	4,099	
622	UNITY-WEST BURLEY NO 1		1,931,734	8,438	
623	USK-BOUNDARY NO 1		2,107,798	9,713	
624	VANTAGE-COLUMBIA NO 1		1,207,066	9,877	
625	VANTAGE-HANFORD NO 1		408,065	0	
626	VANTAGE-SCHULTZ NO 1		5,237,336	9,723	
627	VERA TAP TO TRENTWOOD-VALLEY WAY NO 1		225,518	2,269	
628	VICTOR TAP TO TARGHEE TAP		96,996	199	
629	WAGNER LAKE TAP TO WILBUR TAP		441,963	4,753	
630	WALLA WALLA-FREEWATER		1,331,932	1,501	
631	WALLA WALLA-PENDLETON NO 1		4,302,191	11,067	
632	WALLA WALLA-TUCANNON RIVER NO 1		20,824,016	16,235	
633	WALNUT CITY TAP TO FOREST-GROVE-MCMINNVILLE NO 1		318,013	3,576	
634	WAUNA-DRISCOLL NO 1		19,639	38	
635	WAUTOMA-KNIGHT NO 1		40,640,657	64,976	
636	WAUTOMA-OSTRANDER NO 1		3,560,574	0	
637	WAUTOMA-ROCK CREEK NO 1		9,564,886	27,289	
638	WENDSON-TAHKENITCH NO 1		3,962,589	15,472	
639	WENDSON-TAHKENITCH NO 2		2,980,101	13,150	
640	WEST BURLEY-HEYBURN NO. 1 (LEASED FACILITY)		21,218	5,552	
641	WESTSIDE (AVA)-BELL NO 1		1,065,091	323	
642	WHITE BLUFFS-451B NO 1		1,025,555	720	
643	WHITE BLUFFS-RICHLAND NO 1		1,698,054	4,690	
644	WILLOW CREEK-HAWKINS #1		492,033	743	
645	WINE COUNTRY-MIDWAY NO 1		2,763,766	4,693	
646	WINTHROP TAP TO TWISP-OKANOGAN		702,769	7,146	
647	WNP1-ASHE NO 2		76,075	3,890	
648	Subtotal Lines		3,067,229,837	7,287,845	
649					
650	Stations	Owner	Investment (\$)	O&M (\$)	Multi %
651	ABERDEEN SUBSTATION		6,645,463	130,889	
652	ACORD SUBSTATION (BENTON REA)		22,142	0	
653	ACTON SUBSTATION		197,084	10,080	82%
654	ADAIR SUBSTATION(BPA)		814,402	25,501	
655	ADDY SUBSTATION		10,469,442	89,534	90%
656	AFTON COGENERATION POWER PLANT		8,654	0	
657	AHSAHKA SUBSTATION	CPC	22,139	877	
658	AIRWAY HEIGHTS SUBSTATION	AVA	27,894	230	
659	ALBANY SUBSTATION		12,293,275	132,472	93%
660	ALBENI FALLS SUBSTATION		1,096,932	21,292	75%
661	ALCOA SUBSTATION		9,360,682	265,087	95%
662	ALDER METERING POINT	TPWR	27,765	204	
663	ALDERWOOD SUBSTATION		123,111	170,831	
664	ALFALFA SUBSTATION		4,509,176	25,761	
665	ALKALI SUBSTATION	CBEC	61,692	235	
666	ALLSTON SUBSTATION		52,756,528	550,430	
667	ALTURAS SUBSTATION	PAC	21,364	267	
668	ALVEY SUBSTATION		46,540,020	259,879	86%
669	AMES LAKE SUBSTATION	TEC	30,075	1,396	
670	ANACONDA SUBSTATION		4,954,554	85,088	
671	ANGUS SUBSTATION (BENTON CO PUD)		124,041	305	
672	APPLEWAY SUBSTATION	AVA	18,816	202	
673	ARCO SUBSTATION(UTAH POWER & LIGHT)		242,476	0	
674	ARCO SUBSTATION (BPA/LREC)		32,413	668	
675	ARIEL SUBSTATION	CWPUD	35,332	699	
676	ARM RELIFT SUBSTATION	AVA	8,900	0	

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	A	B	C	D	E
677	ARMSTRONG SUBSTATION(INLAND POWER & LIGHT)		8,286	285	
678	ARTONDALE SUBSTATION	PLC	88,106	1,939	
679	ASHE SUBSTATION		41,584,323	443,070	92%
680	ASHLAND SUBSTATION	PAC	85,217	0	
681	ATHOL SUBSTATION(KOOTENAI ELEC COOP)	KEC/NLI	51,772	1,220	
682	AUSTIN SWITCHYARD	SVEC	13,635	735	
683	BADGER CANYON SUBSTATION		5,811,380	34,622	
684	BALD MOUNTAIN SUBSTATION		4,080,029	35,376	
685	BANDON SUBSTATION		4,259,802	62,363	86%
686	BANGOR SUBSTATION	USN	67,321	1,059	
687	BANNACK SUBSTATION	VEC	109,110	1,001	
688	BARRETT'S SUBSTATION(VIGILANTEELECTRIC)	VEC	28,520	0	
689	BAXTER SUBSTATION (BIG BEND)	BBEC	15,519	1,001	
690	BEACON SUBSTATION	AVA	1,931	0	
691	BEAVER BAY SUBSTATION (COWLITZ PUD)		24,843	391	
692	BEAVER SUBSTATION (PGE)		46,143	4,088	
693	BEAVER SUBSTATION(TILLAMOOK PUD)		61,093	3,220	
694	BECK ROAD SUBSTATION		20,710	0	
695	BELFAIR SUBSTATION(MASON CO PUD NO 3)	MCPUD#3	80,394	776	
696	BELL SUBSTATION		82,760,420	1,327,046	
697	BELLINGHAM SUBSTATION(BPA)		12,568,944	273,008	
698	BELLINGHAM SUBSTATION(PUGET SOUND ENERGY)		2,432	100	
699	BENSON SUBSTATION		79,650	958	
700	BENTON CITY SUBSTATION(BENTON CO PUD)		15,267	289	
701	BENTON SUBSTATION		7,772,465	106,828	
702	BERRIAN SUBSTATION	BPUD	25,904	287	
703	BERRYDALE SUBSTATION (CLP)		36,801	207	
704	BERTELSEN SUBSTATION	EWEB	59,277	221	
705	BETHEL SUBSTATION	PGE	12,410	145	
706	BETTAS ROAD SUBSTATION		5,183,108	30,608	
707	BEVERLY PARK SUBSTATION	SNPUD	86,702	1,693	
708	BIG EDDY SUBSTATION		11,506,959	100,569	15%
709	BIG FORK SUBSTATION (FEC)		6,087	0	
710	BIG HORN SUBSTATION (IBERDOLA)		19,558	4,199	
711	BIG PASCO	FPUD	13,215	260	
712	BIGLOW CANYON SUBSTATION	PGE	61,573	2,445	
713	BINGEN SUBSTATION(KLICKITAT CO PUD)		32,116	645	
714	BLACKROCK SUBSTATION	BREA	10,803	685	
715	BLAINE SUBSTATION	PSE	128,593	681	
716	BLAKESLEE JUNCTION SWITCHING STATION		1,082,385	61	
717	BLANTON ROAD SUBSTATION	FPUD	22,796	325	
718	BOARDMAN SUBSTATION		7,391,701	74,710	
719	BONNER SUBSTATION	MEC	49,904	1,045	
720	BONNERS FERRY SUBSTATION		1,974,212	42,781	86%
721	BOOTH BEND SUBSTATION	MWL	11,060	751	
722	BOUNDARY SUBSTATION		4,766,888	105,117	
723	BOX CANYON POWERHOUSE	POPD	56,157	485	
724	BOYER SWITCHING STATION	PAC	21,947	4,866	
725	BRASADA SUBSTATION (CENTRAL ELECTRIC COOPERATIVE)		492,476	20,858	
726	BREMERTON SUBSTATION (PSE)		57,828	201	
727	BREWSTER SUBSTATION	OPUD	36,031	208	
728	BRIDGE SUBSTATION		4,925,792	50,943	
729	BRIDGEPORT BAR	DPUD	16,007	1,158	
730	BRINCKEN'S CORNER SUBSTATION		951,234	17,781	
731	BROADMOOR SUBSTATION	FPUD/BBEC	57,308	416	
732	BROADVIEW SUBSTATION	NWE	123,479	894	
733	BROOKDALE SUBSTATION(ELMHURSTMUTUAL PWR & LIGHT)		82,392	1,122	
734	BROOKDALE SUBSTATION(TACOMA PUBLIC UTILITIES)		43,391	0	
735	BUCKLEY SUBSTATION		3,636,972	37,901	36%
736	BURBANK #2 METERING POINT	GPUD	10,340	0	
737	BURBANK #3 METERING POINT	GPUD	9,282	0	
738	BURBANK SUBSTATION		426,473	9,966	69%
739	BURLEY SUBSTATION(CITY OF BURLEY)		8,862	348	
740	BURNT WOODS SUBSTATION		174,626	5,756	35%
741	CABINET GORGE SUBSTATION	AVA	51,098	379	
742	CALPINE SUBSTATION	CPN	313,432	13,508	
743	CANAL SUBSTATION		1,819,346	25,608	
744	CANBY SUBSTATION(BPA)		1,634,999	27,543	
745	CANBY SUBSTATION(PGE)		28,591	574	
746	CANBY SUBSTATION(SURPRISE VALLEY ELEC)		84,531	3,067	
747	CAPE HORN SUBSTATION	SKPUD	28,175	1,640	
748	CARDWELL SUBSTATION		3,067,081	63,324	
749	CARLIN SUBSTATION	WREC	7,918	90	
750	CARLSON SUBSTATION	VEC	29,249	0	
751	CARLTON SUBSTATION		6,294,326	90,626	
752	CARMEN POWERHOUSE	EWEB	31,287	231	
753	CARSON SUBSTATION	SKPUD	2,593	1,016	
754	CASCADE LOCKS SUBSTATION		383,749	17,212	61%
755	CASCADE STEEL SUBSTATION	MWL	87,356	2,387	
756	CATHLAMET SUBSTATION	WPUD	101,018	1,782	
757	CATTLE CREEK SWITCHING STATION		6,330,977	15,569	
758	CEDARVILLE CITY SUBSTATION	SVEC	22,896	0	
759	CEDARVILLE JUNCTION SUBSTATION		765,877	35,317	
760	CENTRAL FERRY SUBSTATION		21,193,683	77,608	
761	CENTRALIA MINES SUBSTATION	TACG	5,778	0	
762	CENTRALIA SUBSTATION		1,680,624	29,744	
763	CENTRALIA SWITCHING STATION	TACG	176,972	8,044	

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764	CENTRALIA THERMAL POWERHOUSE	PAC	15,230	1,426	
765	CHALLIS SUBSTATION	SREC	65,343	0	
766	CHEHALIS SUBSTATION		16,941,928	310,882	
767	CHELATCHIE SUBSTATION	CPU	17,442	297	
768	CHEMAWA SUBSTATION		17,010,332	407,566	
769	CHEMICAL SUBSTATION	CWPUD	127,756	0	
770	CHENEY SUBSTATION	IPL/CHNY	2,410	319	
771	CHENOWETH SUBSTATION		7,916,319	60,839	
772	CHERRY CREEK SUBSTATION	NWE	8,426	2,110	
773	CHESHIRE SUBSTATION (EPUD)	EPUD	152,044	690	
774	CHEVRON SUBSTATION	BPUD	34,271	610	
775	CHEWELAH SUBSTATION	AVA	26,994	814	
776	CHIEF JOSEPH SUBSTATION		27,329,641	572,104	74%
777	CHRISTMAS VALLEY SUBSTATION	MSEC	36,342	2,798	
778	CITY VIEW SUBSTATION	RICH	29,453	752	
779	CLARK SUB	CPU	21,851	0	
780	CLARKSTON SUBSTATION		532,252	17,960	
781	CLATSKANIE SWITCHING STATION (CLATSKANIE PUD)	CTPUD	12,340	1,720	
782	CLATSOP SUBSTATION		4,153,325	126,879	
783	CLAYTON SUBSTATION	IPL	28,441	1,914	
784	CLINTON SUBSTATION (MISSOULA)	MEC	5,411	614	
785	COASTAL ENERGY GENERATING PLANT	COAST	10,371	2,252	
786	COCHRANE SUBSTATION		72,108	205	
787	COEUR D'ALENE 15TH STREET SUBSTATION	AVA	37,103	224	
788	COFFIN BUTTE GENERATING PLANT	PNGC	10,273	1,478	
789	COLD CREEK SUBSTATION	BPUD	41,821	1,966	
790	COLLINS LAKE SUBSTATION	M3PUD	15,858	0	
791	COLLINS SUBSTATION	KPUD	18,228	388	
792	COLUMBIA CREST SUBSTATION	BREA	68,221	734	
793	COLUMBIA FALLS SUBSTATION -- 115 YARD		3,481,433	121,314	
794	COLUMBIA FALLS SUBSTATION - 230 KV YARD		14,837,779	30,350	
795	COLUMBIA SUBSTATION		25,941,925	292,476	
796	COLVILLE SUBSTATION		4,151,056	64,271	
797	COMBINE HILLS II SUBSTATION (EURUS EGY)	EURUS	47,138	4,445	
798	CONDON SUBSTATION	CBEC	41,086	586	
799	CONDON WIND SUBSTATION(SEAWEST)	SEAWEST	72,793	16,508	
800	CONNELL SUBSTATION	BPA/FPUD	746,801	7,148	
801	CORVALLIS SUBSTATION	RCEC	14,452	150	
802	COSMOPOLIS SUBSTATION		1,453,124	64,801	
803	COTTONWOOD METERING POINT(BPA)	AVA	54,681	519	
804	COVINGTON SUBSTATION		38,476,327	989,474	
805	COW CREEK SUBSTATION (UIUC)	UIUC	14,830	282	
806	COWLITZ FALLS POWERHOUSE	LPUD	72,665	2,371	
807	COWLITZ SUBSTATION(TACOMA PUBLIC UTILITIES)	TPWR	368,188	1,251	
808	COWLITZ SUBSTATION(BPA)		3,142,448	37,428	
809	COYOTE SPRINGS SUBSTATION	PGE	4,532,741	22,764	
810	CRAIGMONT SUBSTATION	AVA	56,390	549	
811	CRESTON SUBSTATION(BPA)	BPA/IPL	1,579,537	30,557	
812	CRESWELL SUBSTATION	EPUD	31,204	861	
813	CURLEW SUBSTATION	RREC	10,717	672	
814	CUSICK SUBSTATION		1,919,063	28,919	
815	CUSTER SUBSTATION		40,232,420	856,284	
816	DARBY SUBSTATION	RCEC	39,059	1,301	
817	DAVIS CREEK SUBSTATION		73,632	1,314	14%
818	DAY MT. SPOKANE	IPL	17,108	579	
819	DAYTON SUBSTATION(BPA & COLUMBIA REA)	CREA	103,536	1,442	
820	DAYTON SUBSTATION(MASON COUNTY)	M3PUD	42,516	799	
821	DE MOSS SUBSTATION(BPA)		12,541,467	57,970	
822	DECLO METERING POINT	SSE	43,494	1,361	
823	DEER PARK SUBSTATION	BPA/IPL/AVA	461,637	11,209	
824	DELENA SUBSTATION	CTPUD	60,981	1,125	
825	DELIGHT SUBSTATION	BBEC	34,597	496	
826	DELL SUBSTATION	VEC	30,156	1,075	
827	DEXTER SUBSTATION (LANE ELECTRIC)	LEC	85,302	339	
828	DILLARD SUBSTATION	EWEB	17,335	275	
829	DILLON SUBSTATION	VEC	28,985	853	
830	DILLON-SALMON SUBSTATION	NWE	110,343	452	
831	DISCOVERY BAY SUBSTATION	JPUD	54,874	291	
832	DISCOVERY SUBSTATION (N. WASCO PUD)	NWPUD	214,087	8,748	
833	DIVIDE SUBSTATION	VEC	22,748	254	
834	DIXIE SUBSTATION		405,202	10,208	55%
835	DIXON SUBSTATION		3,481,862	38,285	
836	DODGE JUNCTION SUBSTATION (PSE)	PSE	112,457	3,587	
837	DOE 251W SUBSTATION	DOE	90,375	438	
838	DOE 451A SUBSTATION	DOE	11,839	5	
839	DOE 451B SUBSTATION	DOE	21,042	1,073	
840	DONALD NYS SUBSTATION	CRPUD	9,822	0	
841	DOOLEY SUBSTATION (WINDY POINT)	WPP	283,314	7,187	
842	DORENA SUBSTATION		257,465	16,141	
843	DOVER SWITCHING STATION	NLI	18,324	132	
844	DOWER SUBSTATION	KEC	1,570	145	
845	DRAIN SUBSTATION		2,792,144	37,158	90%
846	DREWSEY METERING POINT (IPCO)	IPC	6,039	1,219	
847	DRISCOLL SUBSTATION		6,838,763	75,555	
848	DROP PLANT PUMPING PLANT	YPWR	8,779	0	
849	DRUMMOND MONTANA SUBSTATION	NWE	4,352	0	
850	DRUMMOND SUBSTATION	BPA/FREC	11,156,011	203,910	

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	A	B	C	D	E
851	DUCKABUSH SUBSTATION	M1PUD	35,879	1,020	
852	DUTCH CANYON SUBSTATION	CRPUD	15,947	558	
853	DWORSHAK SUBSTATION		20,750,912	132,829	82%
854	EAGLE LAKE SUBSTATION		203,425	7,930	45%
855	EAGLE POINT METERING POINT	MWL	23,907	176	
856	EAST BENCH SUBSTATION	VEC	29,447	958	
857	EAST COLFAX SUBSTATION	AVA	95,156	773	
858	EAST FOSSIL SUBSTATION	CBEC	50,617	138	
859	EAST GREENACRES #1 METERING POINT	KEC	9,045	0	
860	EAST GREENACRES #2 METERING POINT	AVA	7,420	0	
861	EAST GREENACRES #3 METERING POINT	AVA	8,778	0	
862	EAST HILLS SUBSTATION	BPA/SSE	624,256	19,025	
863	EAST OMAK SUBSTATION		6,106,800	84,191	
864	EAST PINE SUBSTATION	SCL	19,963	0	
865	EAST SUBSTATION	TPUD	4,388	0	
866	ECHO LAKE SUBSTATION		34,225,419	133,810	
867	EGYPT SUBSTATION	IPL	29,691	131	
868	EIGHT MILE CREEK METERING POINT	WREC	229,192	0	
869	ELBE SUBSTATION	LPUD	27,620	1,709	
870	ELLENSBURG SUBSTATION	BPA/ELN	7,126,594	96,087	
871	ELM STREET SUBSTATION	OTEC	14,496	1,404	
872	ELMA SUBSTATION	BPA/GHPUD	686,902	20,590	
873	ELMAR SUBSTATION	MEC	33,016	316	
874	ELMO SUBSTATION(MVP)	MVP	48,586	470	
875	ELTOPIA BRANCH CANAL POWERHOUSE	SCBID	14,336	232	
876	ELTOPIA SUBSTATION (BIG BEND)	BBEC	24,590	299	
877	ELY SUBSTATION	BPUD	35,905	284	
878	EMERGENCY OPERATING FACILITY	ENW	44,194	2,828	
879	ENDERSBY SUBSTATION	WEC	9,311	1,143	
880	ENERGIZER SUBSTATION (KPUD)	KPUD	280,014	7,621	
881	ENTERPRISE SUBSTATION	WHPUD	21,193	733	
882	EUGENE SUBSTATION		6,131,429	91,638	
883	EUREKA SUBSTATION (LINCOLN ELEC)	LINC	37,497	1,220	
884	EVERGREEN PUMP STATION	QCBID	24,923	646	
885	EWAN SUBSTATION	AVA	8,238	20	
886	FAIRCHILD AIR FORCE BASE NORTH SUBSTATION	USAF	25,055	364	
887	FAIRCHILD AIR FORCE BASE SOUTH SUBSTATION	USAF	34,734	698	
888	FAIRFIELD SUBSTATION	IPC	22,634	0	
889	FAIRMOUNT SUBSTATION		16,394,236	133,704	
890	FAIRVIEW SUBSTATION(BPA)		11,975,110	218,672	
891	FEEDVILLE SUBSTATION (UEC)	UEC	6,548	1,122	
892	FERN HILL SUBSTATION	PAC	13,666	517	
893	FERN RIDGE SUBSTATION (LANE ELECTRIC)	LEC	16,530	745	
894	FERNDAL SUBSTATION	WHPUD	17,315	363	
895	FIDALGO SUBSTATION		4,976,266	61,850	
896	FILBERT SUBSTATION(CITY OF FOREST GROVE)	FORG	15,622	770	
897	FINLEY SUBSTATION (BENTON COUNTY PUD)	BPUD	11,011	2,391	
898	FIRST LIFT SUBSTATION		28,131	0	
899	FIRST STREET SUBSTATION	RICH	69,550	421	
900	FISHERS ROAD SUBSTATION	CPU	6,861	0	
901	FLATHEAD SUBSTATION(BPA & FLATHEAD ELEC)	BPA/FEC	6,384,736	52,277	
902	FLORENCE SUBSTATION (CENTRAL LINCLON PUD)	CLPUD	17,351	266	
903	FORDS PRAIRIE SUBSTATION(CITYOF CENTRALIA)	CCL	38,555	875	
904	FORDS PRAIRIE SUBSTATION(LEWIS CO PUD)	LPUD	25,993	1,343	
905	FOREST GROVE SUBSTATION	BPA/FORG	5,314,036	59,072	
906	FORT ROAD METERING POINT	YPWR	23,768	615	
907	FORT ROCK SUBSTATION (MIDSTATE ELECTRIC COOP)	MEC	119,663	0	
908	FOSSIL SUBSTATION		5,987,277	51,216	
909	FOSTER CREEK SUBSTATION(NESPELEM VALLEY ELEC)	NVEC	56,093	2,761	
910	FOSTER CREEK SUBSTATIONDOUGLAS CO PUD)	DOPD	33,214	0	
911	FOSTER WELLS SUBSTATION	FPUD	87,711	346	
912	FOUR LAKES SUBSTATION	IPL/CHNY	15,712	3,016	
913	FOURTH AND HERALD SUBSTATION	AVA	18,003	0	
914	FRANKLIN SUBSTATION	BPA/FPUD	14,139,957	301,671	88%
915	FRANZ HOLMES SUBSTATION	ELM	152,954	779	
916	FREEWATER SUBSTATION(BPA)	BPA/CMF	1,878,452	13,840	
917	FRENCHMAN HILLS SUBSTATION	USBR	14,788	245	
918	FRENCHMAN SPRINGS SUBSTATION	USBR	19,285	673	
919	FRENCHTOWN SUBSTATION		24,770	564	
920	FROMAN SUBSTATION	CPI	10,025	249	
921	GARDINER SUBSTATION		608,586	24,302	66%
922	GARIBALDI SUBSTATION(TILLAMOOK PUD)	TPUD	350,237	2,046	
923	GARRISON SUBSTATION		60,768,218	438,905	69%
924	GATES OF THE MOUNTAINS METERING POINT	NWE	7,949	1,249	
925	GEISEL MONUMENT SUBSTATION	CCEC	37,685	128	
926	GEM STATE HYDRO PLANT	IFP	10,421	53	
927	GEORGIA PACIFIC SUBSTATION(PSE)	PSE	69,838	64	
928	GIG HARBOR SUBSTATION	TPWR	59,167	1,092	
929	GILMER SUBSTATION(KLICKITAT CO PUD)	KPUD	22,504	558	
930	GLADE SUBSTATION		192,511	4,128	35%
931	GLASGOW SUBSTATION	CLPUD	30,939	379	
932	GLENOMA SUBSTATION	LPUD	52,158	789	
933	GLENWOOD SUBSTATION	KPUD	40,100	761	
934	GOBLE SUBSTATION	CRPUD	29,349	368	
935	GOLD BAR SUBSTATION	SNOPUD	20,053	323	
936	GOLD BEACH SUBSTATION		129,528	7,597	
937	GOLDENDALE SUBSTATION(BPA)		1,280,313	23,620	

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	A	B	C	D	E
938	GOOSE LAKE SUBSTATION(NESPELEM VALLEY ELEC)	NVEC	6,433	681	
939	GORMLEY SUBSTATION (MCMINNVILLE W & L)	MWL	47,378	146	
940	GOSHEN SUBSTATION(PACIFICORP)	PAC	2,432,709	0	
941	GOSHEN SUBSTATION(UTAH POWER & LIGHT)	PAC	6,592,951	110,509	
942	GRAND COULEE #2 METERING POINT	GPUD	10,705	1,205	
943	GRAND COULEE SUBSTATION	GPUD	2,048,415	2,439	
944	GRAND RONDE SUBSTATION	PGE	31,005	554	
945	GRANDVIEW SUBSTATION	BPA/BREA	3,510,901	70,603	
946	GRANGEVILLE SUBSTATION	AVA	1,434	0	
947	GRANTSDALE SUBSTATION	RCEC	5,648	138	
948	GRAYS HARBOR FACILITY NO 1 (GRAYS HARBOR ENE	GHE	11,252	4,068	
949	GRAYS RIVER SUBSTATION	WPUD	61,344	2,389	
950	GREEN VALLEY SUBSTATION		2,734,025	17,585	
951	GREENTIMBER SUBSTATION	FREC	37,716	1,206	
952	GROUSE CREEK METERING POINT	RREC	13,002	391	
953	GUM STREET SUBSTATION	BPUD	20,554	226	
954	H2F SUBSTATION	BPUD	23,867	377	
955	HAAKENSON SUBSTATION	ELM	106,056	1,654	
956	HAGEN SUBSTATION	PPUD	48,927	459	
957	HALF MOON SUBSTATION(INLAND POWER & LIGHT)	IPL	20,346	140	
958	HAMPTON SUBSTATION	CEC	73,268	590	
959	HANFORD SUBSTATION		26,609,435	209,611	
960	HANNA SUBSTATION(DOUGLAS CO PUD)	GNC	5,942	0	
961	HAPPY VALLEY SUBSTATION		3,835,998	34,463	
962	HARNEY SUBSTATION(BPA)		7,766,840	76,693	
963	HARRISBURG SUBSTATION		4,893,940	19,122	96%
964	HARVALUM SUBSTATION		3,172,717	56,120	
965	HARVEST WIND SUBSTATION (KPUD)	KPUD	259,068	6,927	
966	HASKILL SUBSTATION	FEC	35,947	3,802	
967	HASKINS METERING POINT	WOEC	7,710	755	
968	HAT ROCK SUBSTATION		5,850,443	31,784	
969	HATTON SUBSTATION (BIG BEND)	BBEC	21,007	675	
970	HATWAI SUBSTATION		15,712,752	237,984	
971	HAUSER SUBSTATION(BPA)		249,348	10,479	
972	HAUSER SUBSTATION(CENTRAL LINCOLN PUD)	CLPUD	27,964	23	
973	HAWK ROAD METERING POINT	YPWR	17,340	3,487	
974	HAWKINS SUBSTATION	EWEB	10,130	113	
975	HAY CANYON SUBSTATION (IBERDOLA)	IBER	130,483	4,461	
976	HAY MILL SUBSTATION (UNITED ELEC & CITY OF RUPERT)	UEC/RUPT	269,929	17,713	
977	HAYDEN SUBSTATION	KEC	35,420	82	
978	HAYFORD SUBSTATION(INLAND POWER & LIGHT)	IPL	14,000	168	
979	HEBO SUBSTATION	BPA/TPUD	389,712	16,734	
980	HEDGES SUBSTATION(BENTON CO PUD)	BPUD	14,917	624	
981	HEGLAR SUBSTATION	RREC	34,766	1,620	
982	HEIMARK METERING POINT	APUD	37,535	0	
983	HELENA AVENUE SUBSTATION		45,245	0	
984	HEPPNER GENERATING STATION	MORR	27,447	0	
985	HERMISTON BUTTE (UEC)	UEC	20,111	545	
986	HEYBURN SUBSTATION		10,544,797	96,647	
987	HIDEAWAY SUBSTATION (LANE ELECTRIC)	LEC	10,025	362	
988	HIGHLANDS SUBSTATION(BENTON CO PUD)	BPUD	13,750	338	
989	HILLTOP SUBSTATION	BPA/NEV	1,907,532	35,505	
990	HILTON LAKE SUBSTATION	SNOPUD	28,003	478	
991	HINES SUBSTATION	OTEC	32,533	2,358	
992	HOLCOMB SUBSTATION		653,608	31,022	
993	HOOD RIVER SUBSTATION		1,069,598	37,101	81%
994	HOODOO SUBSTATION	IPL	9,803	186	
995	HOOPER SPRINGS SUBSTATION		5,610,634	0	
996	HOPE VALLEY METERING POINT	QCBID	13,403	190	
997	HOPKINS RIDGE SUBSTATION	PSE	30,813	1,720	
998	HORN BUTTE SUBSTATION (INVENERGY WIND)	INVER	208,873	8,722	
999	HORN RAPIDS SUBSTATION	BREA	30,595	1,046	
1000	HORSE HEAVEN SUBSTATION		2,995,453	41,405	
1001	HOT SPRINGS SUBSTATION		19,856,956	502,102	
1002	HUGHS SUBSTATION(SALEM ELEC COOP)	SEC	40,198	1,189	
1003	IDAHO FALLS SUBSTATION	PAC	2,983	2,279	
1004	IDAHOME SUBSTATION		471,469	31,751	
1005	IMRIE SUBSTATION (PACW)	PAC	141,675	6,548	
1006	INTALCO SUBSTATION		12,018,982	261,590	64%
1007	IONE SUBSTATION		796,188	26,193	86%
1008	IRBY SUBSTATION	BPA/IPL	337,734	7,971	
1009	IRRIGRO SUBSTATION	BPUD	4,436	0	
1010	JENKINS SUBSTATION	KTPUD	183,601	2,687	
1011	JERICO PUMPING PLANT	GPUD	36,866	650	
1012	JIGGS-LEE METERING POINT	IPC	22,773	0	
1013	JIM CREEK SUBSTATION	USN	20,733	554	
1014	JOHN CURTIS SUBSTATION	PLW	76,330	736	
1015	JOHN DAY CONSTRUCTION SUBSTATION	KPUD	38,025	553	
1016	JOHN DAY SUBSTATION		21,460,920	202,590	44%
1017	JOHN DAY SUBSTATION - 230 YARD		28,938,178	51,245	
1018	JOHNS PRAIRIE SUBSTATION	M3PUD	36,662	407	
1019	JONES CANYON SUBSTATION		17,481,357	57,875	
1020	JONES SUBSTATION	VEC	5,407	41	
1021	JULIA STREET (KOOTENAI ELECTRIC COOPERATVIE)		26,666	56	
1022	JULIAETTA SUBSTATION	AVA	11,005	297	
1023	JUNCTION CITY SUBSTATION(BLACHLY-LANE CO ELEC COOP)	BLEC	5,106	271	
1024	JUNIPER CANYON I SUBSTATION (IR INC.)	IBER	126,791	8,180	

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	A	B	C	D	E
1025	KAH-NEE-TA SUBSTATION	WEC	53,561	812	
1026	KALISPELL SUBSTATION(BPA)		13,010,488	102,789	
1027	KAMIAH SUBSTATION	AVA	19,894	716	
1028	KEELER SUBSTATION		77,332,550	1,204,619	
1029	KELLER SUBSTATION		741,345	11,860	
1030	KELTON SUBSTATION	RREC	21,825	904	
1031	KENNEDY SUBSTATION	BREA	34,007	1,674	
1032	KENNEWICK SUBSTATION(BENTON CO PUD)	BPUD	23,070	428	
1033	KERR SUBSTATION(BPA)		1,780,412	21,260	
1034	KETTLE FALLS SUBSTATION	AVA	5,249	516	
1035	KITSAP SUBSTATION		14,219,905	154,393	
1036	KLONDIKE SCHOOLHOUSE SUBSTATION (IBERDOLA)	IBER	382,745	0	
1037	KLONDIKE SCHOOLHOUSE SUBSTATION(BPA)		29,337	3,710	
1038	KLONDIKE SUBSTATION	WEC	99,532	(3,412)	
1039	KNAPPA SVENSEN SUBSTATION	PAC	2,188	655	
1040	KNIGHT SUBSTATION		56,445,439	20,825	
1041	KNIGHTS BRIDGE (CANBY UTILITY BOARD)		32,888	0	
1042	KOOSKIA SUBSTATION	AVA	21,459	300	
1043	LA GRANDE SUBSTATION		7,679,596	63,324	
1044	LA PINE SUBSTATION		22,577,966	86,097	
1045	LAGOON SUBSTATION	CMF	22,101	232	
1046	LAGRANDE POWERHOUSE	TPWR	18,997	0	
1047	LAKE BAY SUBSTATION	PLC	7,193	858	
1048	LAKE GROVE SUBSTATION	LLP	62,954	666	
1049	LAKE LENORE #1 IRRIGATION PUMP	QCBID	12,122	452	
1050	LAKE LENORE #2 IRRIGATION PUMP	QCBID	12,736	317	
1051	LAKESIDE SUBSTATION (CLP)	CLPUD	21,534	771	
1052	LAKESIDE SUBSTATION (FEC)	FEC	22,744	362	
1053	LAKEVIEW SUBSTATION	SVEC	71,364	460	
1054	LANCASTER SUBSTATION(BPA)		538,048	51,716	
1055	LANE SUBSTATION		16,197,035	199,319	
1056	LANGLOIS SUBSTATION		897,249	11,257	81%
1057	LARENE SUBSTATION (INLAND)	IPL	440	153	
1058	LATERAL 4 METERING POINT	YPWR	42,935	1,758	
1059	LATHAM SUBSTATION	EPUD	89,194	886	
1060	LEBANON SUBSTATION		3,701,597	25,947	
1061	LEVEY SUBSTATION		2,283,291	20,394	
1062	LEWIS & CLARK SUBSTATION	PAC	7,015	0	
1063	LEXINGTON SUBSTATION		10,372,063	128,736	
1064	LIBBY SUBSTATION(BPA)		6,897,702	160,441	73%
1065	LIBBY SUBSTATION(BPA/FLATHEADELEC)	BPA/FEC	674,984	10,111	
1066	LINDEN SUBSTATION (KPU)	KPU	10,273	0	
1067	LION MOUNTAIN SUBSTATION	FEC	66,581	755	
1068	LITTLE FALLS GENERATING PLANT	AVA	3,547	0	
1069	LITTLE GOOSE SUBSTATION		67,383,230	132,217	80%
1070	LOCUST SUBSTATION	MEWC	32,812	727	
1071	LODHOLM SUBSTATION	PLC	59,434	721	
1072	LOLO SUBSTATION (NWE)	NWE	16,060	490	
1073	LONE PINE SUBSTATION(PACIFICORP)	NVEC	26,796	0	
1074	LONGVIEW SUBSTATION		37,642,267	230,069	
1075	LOOKINGGLASS SUBSTATION(BPA)		329,093	3,595	
1076	LOOKOUT POINT SUBSTATION		3,325,646	17,565	75%
1077	LOPEZ ISLAND SUBSTATION(BPA)		6,976,971	82,432	
1078	LOST RIVER SUBSTATION	BPA/LREC	1,851,841	31,105	
1079	LOW GAP METERING POINT	QCBID	11,133	158	
1080	LOWER BULB GENERATING PLANT	IFP	16,027	0	
1081	LOWER GRANITE SUBSTATION		7,333,241	89,180	75%
1082	LOWER MONUMENTAL SUBSTATION		36,284,347	214,762	87%
1083	LOWER WOODCHUCK SUBSTATION	RCEC	34,740	373	
1084	LUHR BEACH SUBSTATION	PSE	58,733	139	
1085	LUMP GULCH SUBSTATION	NWE	20,312	1,090	
1086	LYLE SUBSTATION	KPU	48,978	519	
1087	LYN PUMPS PUMPING PLANT	USBR	28,149	0	
1088	LYNCH CREEK SUBSTATION		726,128	10,298	57%
1089	MABTON SUBSTATION		1,352,795	15,970	
1090	MACKAY SUBSTATION	LREC	198,886	2,920	
1091	MACKS INN SUBSTATION	FREC	429,291	48,544	
1092	MADISON SUBSTATION		1,559,262	24,606	
1093	MAPLE VALLEY SUBSTATION		71,381,352	576,952	
1094	MAPLETON SUBSTATION		839,146	35,895	86%
1095	MARENGO SUBSTATION	AVA	28,220	561	
1096	MARION SUBSTATION		37,347,557	444,453	92%
1097	MARTIN CREEK SUBSTATION		7,819,491	33,488	
1098	MASHEL PRAIRIE SUBSTATION (OHOP)	OHOP	131,931	2,083	
1099	MASON SUBSTATION(MASON CO PUDNO 3)	M3PUD	56,492	535	
1100	MAUPIN SUBSTATION		1,872,509	48,379	
1101	MAYFIELD POWERHOUSE	TPWR	3,167	0	
1102	MAYFIELD SWITCHYARD	TPWR	202,128	1,891	
1103	MCCULLOUGH SUBSTATION	ELM	29,139	532	
1104	MCKENZIE SUBSTATION(EWEB)	EWB	47,720	1,061	
1105	MCLOUGHLIN SUBSTATION	PGE	316,731	15,564	
1106	MCMINNVILLE SUBSTATION	BPA/MWL	1,994,147	73,418	
1107	MCNARY SUBSTATION		83,627,473	577,066	95%
1108	MESA SUBSTATION	BBEC	91,656	1,047	
1109	METALINE FALLS SUBSTATION(PEND OREILLE CO PUD)	POPD	14,425	233	
1110	MIDWAY SUBSTATION(BPA)		17,541,280	259,578	
1111	MILAN SUBSTATION	AVA	27,672	583	

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1112	MILL PLAIN SUBSTATION	CPU	3,331	0	
1113	MILL PRIMARY SUBSTATION	PTPC	44,409	0	
1114	MILLER SUBSTATION(LAKEVIEW LIGHT & PWR)	LLP	123,121	2,411	
1115	MILTON SUBSTATION(CITY OF MILTON FREEWATER)	CMF	141,908	8,258	
1116	MINICO SUBSTATION (UNITED ELECTRIC)	UEC	12,493	2,149	
1117	MINIDOKA SUBSTATION		139,342	3,808	36%
1118	MINT FARM SWITCHING STATION	MFEC	12,566	5,792	
1119	MISSION SUBSTATION	UEC	4,255	486	
1120	MIST SUBSTATION	WOEC	50,488	3,115	
1121	MOAB SUBSTATION	IPL	27,824	1,067	
1122	MOHLER SUBSTATION(TILLAMOOK PUD)	TPUD	29,278	2,857	
1123	MONMOUTH SUBSTATION		721,145	16,993	56%
1124	MONROE SUBSTATION		61,975,310	736,091	
1125	MORRISON SUBSTATION	CCEC	17,456	0	
1126	MORROW FLAT		33,553,692	5,298	
1127	MOSSYROCK SUBSTATION	LPUD	17,122	0	
1128	MOSSYROCK SWITCHYARD	TPWR	128,212	1,432	
1129	MOUNTAIN AVENUE SUBSTATION		1,649,488	16,167	78%
1130	MOUNTAIN HOME SUBSTATION(IDAHO POWER)	IPC	67,338	5,737	
1131	MOUNTAIN VIEW SUBSTATION(MASON CO PUD NO 3)	M3PUD	29,452	232	
1132	MOXEE SUBSTATION		2,711,799	38,437	
1133	MOYIE DAM	BFY	32,179	125	
1134	MT. HALL SUBSTATION	NLI	15,208	370	
1135	MT. VERNON SUBSTATION(SPRINGFIELD UTILITY BOARD)	SUB	7,307	112	
1136	MURRAY SUBSTATION		9,700,371	191,802	
1137	NAPAVINE SUBSTATION		1,544,775	50,382	
1138	NARROWS SUBSTATION	PLC	96,416	3,028	
1139	NASELLE SUBSTATION		4,415,278	67,866	
1140	NECANICUM SUBSTATION		155,809	4,430	46%
1141	NEFF ROAD METERING POINT	CEC	46,637	3,722	
1142	NEWCOMB SUBSTATION(SOLD)	SSE	28,362	648	
1143	NEWPORT SUBSTATION(INLAND POWER)	IPL	262,565	1,165	
1144	NINE CANYON SUBSTATION (BENTON PUD)	BPUD	87,961	7,236	
1145	NINE MILE SUBSTATION (FPLE)	FPLE	42,950	8,878	
1146	NORTH BENCH SUBSTATION		512,217	4,845	97%
1147	NORTH BEND SUBSTATION	PSE	39,582	404	
1148	NORTH BONNEVILLE SUBSTATION	BPA/SKPUD	7,276,793	133,571	63%
1149	NORTH BROOKINGS SUBSTATION	CCEC	439,706	7,044	
1150	NORTH BUTTE SUBSTATION		121,781	4,661	65%
1151	NORTH LEWISTON SUBSTATION	AVA	20,900	261	
1152	NORTH PASCO SUBSTATION	FPUD	59,484	570	
1153	NORTH PORT SUBSTATION (CCL)	CCL	25,067	577	
1154	NORTH POWDER SUBSTATION	IPC	4,392	0	
1155	NORTH SUBSTATION		95,236	1,773	
1156	NOTI CREEK SUBSTATION	EPUD	114,195	2,465	
1157	NOXON CONSTRUCTION SUBSTATION	AVA	207,354	1,405	
1158	NOXON DAM POWERHOUSE	AVA	50,959	0	
1159	NOXON SWITCHYARD	AVA	3,248	1,222	
1160	OAK KNOLL SUBSTATION	PAC	70,494	481	
1161	OAKRIDGE SUBSTATION (LANE ELECTRIC)	LEC	156,911	3,047	
1162	ODESSA SUBSTATION		818,532	16,552	
1163	O'GARA SUBSTATION	AVA	1,305	355	
1164	OHOP SUBSTATION	TPWR	61,175	2,617	
1165	OKANOGAN SUBSTATION	OPUD	10,025	1,016	
1166	OLD LOWER GENERATING PLANT	IFP	7,514	0	
1167	OLINDA SUBSTATION	WAPA	357,021	140	
1168	OLNEY METERING POINT	WOEC	35,014	348	
1169	OLYMPIA SUBSTATION		38,891,964	734,088	
1170	OLYMPIC PIPELINE	SNOPUD	12,580	614	
1171	OMAK SUBSTATION	OPUD	13,613	459	
1172	OPHIR SUBSTATION	OPUD	11,385	0	
1173	OPPORTUNITY SUBSTATION	AVA	15,961	334	
1174	OREGON CITY SUBSTATION		7,249,064	124,492	
1175	OREMET SUBSTATION	PAC	31,352	0	
1176	OSTRANDER SUBSTATION		55,673,979	567,281	
1177	OTHELLO SUBSTATION	AVA	69,527	0	
1178	OUTBACK SOLAR GENERATING PLANT (OUTBACK SOLAR, LLC)	OSLLC	14,510	705	
1179	OVANDO SUBSTATION		2,079,001	22,063	
1180	OXBOW SUBSTATION(PACIFIC CO PUD)	PPUD	14,180	614	
1181	PACIFIC SUBSTATION	UEC	39,385	1,198	
1182	PACKWOOD POWERHOUSE	ENW	21,911	1,132	
1183	PACKWOOD SUBSTATION	LPUD	59,119	0	
1184	PAISLEY GEOTHERMAL PLANT METERING POINT		36,046	204	
1185	PARKDALE SUBSTATION		1,071,795	16,701	87%
1186	PARKLAND SUBSTATION	PLW	20,439	0	
1187	PASCO SUBSTATION	PAC	97,900	638	
1188	PATEROS SUBSTATION	OPUD	11,455	0	
1189	PATERSON SUBSTATION	BPUD	19,705	403	
1190	PATTON VALLEY METERING POINT	WOEC	17,235	167	
1191	PATU SUBSTATION	PATU	6,177	78	
1192	PAUL SUBSTATION		17,851,118	252,891	
1193	PE ELL SUBSTATIONLEWIS CO PUD)	LPUD	16,913	996	
1194	PEARL SUBSTATION		55,431,709	287,536	
1195	PEBBLE SPRINGS SUBSTATION (IBERDOLA)	IBER	193,916	0	
1196	PENDERGAST SUBSTATION	VEC	5,409	108	
1197	PENDLETON SUBSTATION	BPA/UEC	43,283	19,467	
1198	PHILLIPS SUBSTATION	BPUD	51,248	553	

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	A	B	C	D	E
1199	PIHL ROAD METERING POINT	WOEC	12,687	148	
1200	PIKE METERING POINT	WOEC	46,084	562	
1201	PILOT ROCK SUBSTATION	PAC	166,943	370	
1202	PINE HOLLOW SUBSTATION	WEC	9,950	1,775	
1203	PIONEER SUBSTATION	M3PUD	26,068	0	
1204	PLEASANT HILL SUBSTATION	EPUD	25,938	141	
1205	PLEASANT VIEW SUBSTATION	AVA	6,044	548	
1206	PLUMMER SUBSTATION	AVA	55,840	517	
1207	PLYMOUTH SUBSTATION	BREA	41,633	431	
1208	POINT OF ROCKS SUBSTATION	VEC	47,044	598	
1209	POMEROY SUBSTATION(BPA)	BPA/IPL	85,125	15,379	
1210	PONDEROSA SUBSTATION(BPA)		54,602,968	139,092	
1211	POPCORN HILL METERING POINT	PGE	22,116	0	
1212	PORT ANGELES SUBSTATION(BPA)		18,355,690	311,990	
1213	PORT ANGELES SUBSTATION(ITT RAYONIER)	NPI	465,014	0	
1214	PORT ORFORD SUBSTATION		296,514	14,238	63%
1215	PORT TOWNSEND SUBSTATION	PTPC	106,937	3,153	
1216	POTHOLES EAST CANAL GENERATING PLANT	SCBID	14,299	116	
1217	POTHOLES SUBSTATION		2,905,273	107,493	
1218	POTLATCH SUBSTATION(AVISTA)	AVA	34,912	588	
1219	POTLATCH SUBSTATION(BPA)		1,003,683	18,976	89%
1220	POWERLINE SUBSTATION	EPUD	22,086	238	
1221	PRAIRIE SUBSTATION(WWP & KOOTENAI ELEC COOP)	KEC/VWP	15,691	258	
1222	PRIEST RIVER SUBSTATION(AVISTA)	AVA	30,389	278	
1223	PRIEST RIVER SUBSTATION(BPA)		807,132	18,561	
1224	PROSSER SUBSTATION(BENTON CO PUD)	BPUD	43,065	361	
1225	PURDY SUBSTATION	PLC	59,163	864	
1226	PYRAMID SUBSTATION	CSCCL	26,868	741	
1227	QUARTZ SUBSTATION (IDAHO POWER)	IPC	9,766	535	
1228	QUILCENE SUBSTATION	JPUD	25,406	0	
1229	QUINCY SUBSTATION	GPUD	16,867	537	
1230	RADAR PUMPING PLANT	USBR	13,763	696	
1231	RAFT SUBSTATION	RREC	2,177	2,668	
1232	RAINIER SUBSTATION	CTPUD	146,713	857	
1233	RALSTON SUBSTATION (BIG BEND)	BBEC	5,604	1,005	
1234	RANDLE SUBSTATION	LPUD	32,099	0	
1235	RATHDRUM SUBSTATION	AVA	28,219	1,363	
1236	RATTLESNAKE ROAD SUBSTATION (HORIZON WIND)	AWPP	16,318	0	
1237	RATTLESNAKE SUBSTATION(BENTONREA)	BREA	43,829	1,122	
1238	RAVER SUBSTATION		61,283,196	594,956	
1239	RAYMOND SUBSTATION		3,110,576	88,196	
1240	REATA SUBSTATION(BENTON CO PUD)	BPUD	50,929	384	
1241	RED MOUNTAIN SUBSTATION		4,479,748	37,199	
1242	REDMOND SUBSTATION(BPA)		40,745,311	249,467	
1243	REEDSPORT SUBSTATION (BPA)		3,417,464	62,256	94%
1244	REPUBLIC SUBSTATION		537,888	20,518	
1245	RESTON SUBSTATION		430,699	16,472	
1246	RICHLAND SUBSTATION		2,508,566	71,519	
1247	RILEY SUBSTATION	HEC	50,777	1,199	
1248	RIMROCK LAKE SUBSTATION (BENTON REA)	BREA	30,789	509	
1249	RINGOLD SUBSTATION		383,145	11,092	72%
1250	RIVER ROAD GENERATION PLANT SUBSTATION	CPU	10,244	5,576	
1251	RIVERBEND LANDFILL GENERATING PLANT (WM LLC)	WMLLC	10,273	1,922	
1252	RIVERFRONT SUBSTATION	BPUD	21,522	347	
1253	RIVERGATE SUBSTATION	PGE	4,468	627	
1254	RIVERTON SUBSTATION(CITY OF HEYBURN)	HEYB	22,577	1,783	
1255	ROBBINS ROAD METERING POINT	YPWR	20,394	506	
1256	ROCK CREEK SUBSTATION		43,322,389	101,058	
1257	ROCKY BROOK POWERHOUSE	M1PUD	2,016	1,584	
1258	ROCKY REACH SUBSTATION		4,230,844	9,983	
1259	ROE'S CORNER SUBSTATION	RUPT/EEM/REC	38,236	1,872	
1260	ROGUE SUBSTATION		26,114,877	216,067	
1261	ROSALIA SUBSTATION	AVA	28,425	670	
1262	ROSS SUBSTATION		16,360,980	462,216	
1263	ROUND VALLEY SUBSTATION		1,580,338	28,078	
1264	ROUNDUP SUBSTATION		5,356,636	111,080	
1265	ROXBORO SUBSTATION	AVA	21,585	768	
1266	ROY L ZIMMERMAN SUBSTATION	CCL	45,535	347	
1267	ROZA SUBSTATION		3,368	0	
1268	RUBY STREET SUBSTATION (FRANKLIN CO PUD)	FPUD	61,727	1,005	
1269	RUSSELL SMITH POWERHOUSE	SCBID	11,906	144	
1270	SACAJAWEA SUBSTATION		24,464,557	57,805	99%
1271	SACHEEN SUBSTATION		2,175,355	52,982	
1272	SAGEHILL SUBSTATION	FPUD	1,506	412	
1273	SALEM ALUMINA SUBSTATION(SALEM ELEC COOP)	SEC	18,224	891	
1274	SALEM SUBSTATION (SALEM ELEC)	BPA/SEC	6,363,030	104,772	
1275	SAMMAMISH SUBSTATION	PSE	1,911	0	
1276	SAMUELS SUBSTATION	NLI	42,869	7,478	
1277	SAND CREEK SUBSTATION		5,934,882	45,984	
1278	SAND DUNES SUBSTATION	GPUD	3,510,776	0	
1279	SAND HILL CRANE SUBSTATION	RICH	70,897	890	
1280	SANDPOINT SUBSTATION(BPA)		1,106,305	26,475	85%
1281	SANTIAM SUBSTATION		23,154,774	329,093	95%
1282	SAPPHO SUBSTATION		2,128,650	75,592	
1283	SATSOP PARK SUBSTATION (GHPUD)	GHPUD	176,178	3,773	
1284	SATSOP SUBSTATION(BPA)		25,915,165	159,819	
1285	SATUS 2 SUBSTATION	YPWR	9,693	0	

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1286	SATUS 3 SUBSTATION	YPWR	28,953	0	
1287	SCAPPOOSE SUBSTATION	PGE	39,482	1,077	
1288	SCARCELLO SUBSTATION (KOOTENAI ELECTRIC)	KEC	10,025	292	
1289	SCHULTZ SUBSTATION		65,266,276	272,284	
1290	SCOGGINS VALLEY METERING POINT	WOEC	27,685	1,036	
1291	SCOOTENEY SUBSTATION		1,346,338	23,175	91%
1292	SEDRO WOOLLEY SUBSTATION	PSE	41,393	710	
1293	SELLE SUBSTATION		233,060	3,832	41%
1294	SETTERS SUBSTATION	KEC	18,961	135	
1295	SEVEN FEATHERS SUBSTATION (UIUC)	UIUC	10,387	323	
1296	SHANO SUBSTATION	BBEC	32,045	341	
1297	SHELTON SUBSTATION		29,230,164	174,620	
1298	SHEPHERDS CENTRAL SUBSTATION		129,764	2,326	
1299	SHEPHERDS FLAT SUBSTATION (CAITHNESS SF)	CASH	63,847	0	
1300	SHORT MOUNTAIN GENERATING PLANT	EPUD	17,681	550	
1301	SICKLER SUBSTATION		12,744,533	440,329	
1302	SIFTON SUBSTATION		6,042,486	139,147	
1303	SILVER BOW SUBSTATION		1,761,612	25,860	
1304	SILVER CREEK SUBSTATION		3,477,973	65,827	
1305	SILVER STAR SUBSTATION	VEC	44,433	1,484	
1306	SILVERADO SUBSTATION (CLALLAM CO. PUD)	CMPUD	119,823	346	
1307	SKOOKUM SUBSTATION	M3PUD	68,054	625	
1308	SLATT SUBSTATION		68,796,242	247,577	94%
1309	SMITH CREEK POWERHOUSE	SFH	4,962	273	
1310	SMITHSON SUBSTATION (KITITITAS CO PUD)	KTPUD	29,513	80	
1311	SNIPES SUBSTATION	BREA	90,899	1,589	
1312	SNIPTON SUBSTATION	CBEC	47,195	144	
1313	SNOHOMISH SUBSTATION		44,854,173	478,638	
1314	SNO-KING SUBSTATION		39,313,708	302,579	
1315	SNYDER SUBSTATION	RICH	24,522	329	
1316	SODA SPRINGS SUBSTATION	SODA	6,336	19	
1317	SOUTH BUTTE SUBSTATION	SREC	12,037	0	
1318	SOUTH CUT BANK SUBSTATION	GEC	11,955	0	
1319	SOUTH ELMA SUBSTATION	GHPUD	342,096	4,469	
1320	SOUTH FORK SUBSTATION	TPUD	49,334	288	
1321	SOUTH SLOPE SUBSTATION	BREA	31,283	344	
1322	SOUTH SUBSTATION		101,677	3,718	
1323	SOUTH SUBSTATION (SEATTLE CITY LIGHT)	SCL	62,772	0	
1324	SOUTH TACOMA SUBSTATION		4,887,977	71,771	
1325	SPALDING SUBSTATION	CPC	51,421	706	
1326	SPANGLE SUBSTATION	AVA	18,957	209	
1327	SPAR CANYON SUBSTATION	SREC	703,741	39,594	
1328	SPAW SUBSTATION	BPUD	11,078	0	
1329	SPEARFISH SUBSTATION(KLICKITAT CO PUD)	KPUD	35,741	514	
1330	SPRING CREEK SUBSTATION		9,668,125	50,352	
1331	SPRINGFIELD SUBSTATION(SPRINGFIELD UTILITY BOARD)	SUB	23,401	0	
1332	SPRINGHILL SUBSTATION(INLAND POWER & LIGHT)	IPL	23,544	349	
1333	ST. HELENS SUBSTATION	PGE	18,502	1,658	
1334	ST. JOHNS SUBSTATION		9,744,066	164,285	
1335	STATELINE SUBSTATION		35,972	5,309	25%
1336	STEILACOOM SUBSTATION		754,305	8,247	69%
1337	STEVENS DRIVE SUBSTATION(CITYOF RICHLAND)	RICH	51,835	395	
1338	STEVENSON SUBSTATION	SKPUD	25,896	1,006	
1339	STEVENSVILLE SUBSTATION	RCEC	2,086	187	
1340	STILLWATER SUBSTATION(LINCOLNELECTRIC COOP)	LINC	37,172	663	
1341	SUBSTATION FG	USN	15,482	3,874	
1342	SUGAR MILL SUBSTATION	IFP	241,150	1,329	
1343	SULLIVAN SUBSTATION(VERA WATER & POWER)	VWP	5,684	140	
1344	SUMAS SUBSTATION	SUM	13,840	542	
1345	SUMMER LAKE SUBSTATION	PAC	2,682,773	37,380	43%
1346	SUMNER SUBSTATION	CCEC	22,970	1,055	
1347	SUN HEAVEN NO. 2 SUBSTATION	BPUD	31,152	208	
1348	SUNNYSIDE PORT SUBSTATION	BREA	35,471	0	
1349	SUNSET ROAD SUBSTATION (BENTON CO PUD)	BPUD	26,467	439	
1350	SURPRISE LAKE SUBSTATION		604,747	14,035	80%
1351	SWAN VALLEY SUBSTATION		6,903,911	63,521	98%
1352	SWEETWATER SUBSTATION	AVA	22,846	490	
1353	T3BA'DAS SUBSTATION (MASON COUNTY PUD NO 1)		41,693	0	
1354	TACOMA SUBSTATION		19,786,021	353,622	96%
1355	TAFT SUBSTATION		39,610,003	623,598	
1356	TAHKENITCH SUBSTATION		7,257,445	59,277	
1357	TAPTEAL SUBSTATION	RICH	92,685	1,381	
1358	TARBELL SUBSTATION	CRPUD	18,665	256	
1359	TARGHEE SUBSTATION	BPA/FREC	1,886,679	58,111	
1360	TARGHEE TAP SWITCHING STATION		317,710	8,116	
1361	TARKIO SUBSTATION (MISSOULA)	MEC	3,886	442	
1362	TAYLOR FLATS SUBSTATION	FPUD	53,710	686	
1363	TEANAWAY SUBSTATION	KTPUD	398	841	
1364	TECOMA METERING POINT	RREC	15,357	2,391	
1365	TETON SUBSTATION		3,243,793	67,859	
1366	THAYER DRIVE SUBSTATION(CITY OF RICHLAND)	RICH	85,951	1,146	
1367	THE DALLES SUBSTATION	BPA/NWPUD/WEC	2,432,493	55,283	
1368	THOMPSON FALLS SUBSTATION	NWE	41,428	1,155	
1369	THURSTON SUBSTATION	EWEB	27,476	326	
1370	TIDE FLATS SUBSTATION	TPWR	(1,389)	0	
1371	TILLAMOOK SUBSTATION		8,840,970	137,774	
1372	TIMBER SUBSTATION		748,498	19,395	

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	A	B	C	D	E
1373	TINCUP SUBSTATION	LVE	559,127	20,953	
1374	TOLEDO SUBSTATION		14,492,341	142,428	
1375	TOPPENISH SUBSTATION (YAKIMA POWER)		42,761	0	
1376	TOSTON SUBSTATION	NWE	24,600	1,217	
1377	TOWNSEND METERING POINT	VEC	35,194	1,302	
1378	TRASK RIVER SUBSTATION	TPUD	19,987	2,140	
1379	TREGO SUBSTATION(LINCOLN ELECTRIC COOP)	BPA/LINC	588,787	13,042	
1380	TRENTWOOD SUBSTATION		5,693,994	82,944	81%
1381	TROUT CREEK SUBSTATION	NLI	45,108	267	
1382	TROUTDALE SUBSTATION(BPA)		31,316,891	224,535	
1383	TROY SUBSTATION		684,801	21,085	63%
1384	TRUMBULL CREEK SUBSTATION	FEC	51,518	604	
1385	TUCANNON RIVER SUBSTATION		9,275,412	53,643	
1386	TUM TUM SUBSTATION	IPL	26,909	377	
1387	TUMBLE CREEK SUBSTATION		809,064	10,053	83%
1388	TWILIGHT SUBSTATION	PGE	20,840	24	
1389	TWISP SUBSTATION	OPUD	66,883	0	
1390	TWO MILE ROAD SUBSTATION		1,074,631	13,426	71%
1391	TYEE SUBSTATION	LLP	86,912	1,032	
1392	TYGH VALLEY SUBSTATION (WASCO ELEC. COOP)	WEC	27,349	3,542	
1393	U. S. PLYWOOD SUBSTATION	LPUD	15,723	0	
1394	UKIAH SUBSTATION	CPCA	81,846	1,108	
1395	UNDERWOOD SUBSTATION	SKPUD	85,372	1,815	
1396	UNDERWOOD TAP AUTO-SECTIONALIZING STATION		698,308	3,697	
1397	UNITY SUBSTATION (IDAHO POWERCOMPANY)	IPC	6,894	0	
1398	UNITY SUBSTATION(BPA)	BPA/UEC	1,563,076	49,257	
1399	UPPER GENERATING PLANT	IFP	17,829	0	
1400	USK SUBSTATION(BPA)	BPA/POPD	822,612	35,262	
1401	VALHALLA SUBSTATION	BPA/CHPD	3,785,887	116,414	92%
1402	VALLEY SUBSTATION(RAFT RIVER ELEC COOP)	RREC	23,392	1,962	
1403	VANCOUVER SHIPYARD SUBSTATION	CPU	26,421	0	
1404	VANTAGE STATE PARK METERING POINT	GPUD	20,238	0	
1405	VANTAGE SUBSTATION		36,896,519	251,274	
1406	VAUGHN SUBSTATION	PLC	29,287	1,115	
1407	VERA SUBSTATION (VERA W&P, INLAND P&L)	IPL/VWP	10,025	681	
1408	VICTOR SUBSTATION (RAVALLI COUNTY ELEC COOP)	RCEC	6,943	219	
1409	VICTOR SUBSTATION(FALL RIVER RURAL ELEC COOP)	FREC	81,618	224	
1410	VIEW SUBSTATION	CPU	13,906	464	
1411	VINSON METERING POINT	UEC	27,323	180	
1412	VISTA SUBSTATION	BPUD	25,231	384	
1413	WAGNER LAKE SUBSTATION		543,101	12,653	
1414	WAHKIAKUM SUBSTATION		271,249	242	
1415	WAHLUKE SUBSTATION	GPUD	10,343	0	
1416	WALLA WALLA SUBSTATION(BPA)		10,779,244	110,559	
1417	WALLA WALLA SUBSTATION(PACIFICORP)	PAC	224,061	0	
1418	WALNUT CITY SUBSTATION(CITY OF MCMINNVILLE)	MWL	28,886	168	
1419	WALTON SUBSTATION		213,497	10,320	60%
1420	WARDEN POLE METERING POINT	GPUD	14,752	519	
1421	WARDEN POLE NO 2 METERING POINT	GPUD	13,121	0	
1422	WARNER SUBSTATION		4,132,673	63,787	
1423	WARREN SUBSTATION		592,072	39,465	
1424	WAUTOMA SUBSTATION		35,857,706	129,442	
1425	WEIPPE SUBSTATION	AVA	18,934	253	
1426	WELLS SUBSTATION(IDAHO POWER)	IPC	53,246	970	
1427	WENDSON SUBSTATION		6,729,938	106,586	
1428	WEST BURLEY SUBSTATION(UNITED ELEC COOP)	UEC/BURL	156,561	4,147	
1429	WEST JOHN DAY SUBSTATION	OTEC	51,941	1,668	
1430	WEST PLAINS SUBSTATION (IP&L)	IPL	20,162	299	
1431	WEST REXBURG METERING POINT	PAC	21,513	0	
1432	WEST WELLS SUBSTATION	WREC	18,036	453	
1433	WEST WENDOVER METERING POINT	WREC	59,200	961	
1434	WESTCOTT SUBSTATION (CANBY ELECTRIC)	CUB	6,150	92	
1435	WESTMORELAND SUBSTATION	EWEB	5,482	0	
1436	WESTSIDE SUBSTATION(BPA)		6,749,386	31,713	
1437	WEYERHAEUSER INDUSTRIAL WAY WEYCO NO 1 SUBSTATION (C CWPUD		20,731	646	
1438	WHEAT FIELD SUBSTATION (WFWPP)	EDP	10,273	0	
1439	WHEELER SUBSTATION	GPUD	10,359	0	
1440	WHITCOMB SUBSTATION	BPUD	95,864	302	
1441	WHITE BLUFFS SUBSTATION		11,169,288	93,693	
1442	WHITE CREEK SUBSTATION (KPUD)	KPUD	321,725	8,308	
1443	WHITE RIVER SUBSTATION	PSE	10,703	0	
1444	WHITE SWAN SUBSTATION(BENTON REA)	BREA	10,025	1,169	
1445	WHITEHALL SUBSTATION	VEC	64,230	864	
1446	WILLAKENZIE SUBSTATION	EWEB	32,420	0	
1447	WILLARD JOHNSON SUBSTATION(HOOD RIVER ELEC)	HREC	90,662	239	
1448	WILLIS SUBSTATION (KPUD)	KPUD	299,522	6,596	
1449	WILSON RIVER SUBSTATION	TPUD	46,669	415	
1450	WINCHESTER SUBSTATION	USBR	3,851	783	
1451	WINDISHAR SUBSTATION	MWL	32,018	7,296	
1452	WINE COUNTRY SUBSTATION	BPA/PAC	6,342,281	26,844	
1453	WINNEMUCCA SUBSTATION	NVE	134,454	1,370	
1454	WINTHROP SUBSTATION		1,349,024	15,674	88%
1455	WOODLAND SWITCHING STATION	PAC	250,630	1,018	
1456	WOODSIDE SUBSTATION (RAVALLI CO ELEC COOP)	RCEC	17,660	0	
1457	WREN SUBSTATION		1,656,489	58,212	
1458	WYNOOCHEE HYDRO PLANT	TPWR	73,355	2,165	

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	A	B	C	D	E
1459	YAAK SUBSTATION		392,249	2,320	19%
1460	ZEPHYR HEIGHTS SUBSTATION		46,512	343	
1461	Subtotal Stations		2,990,837,813	32,121,204	
1462	Total Network		6,058,067,649	39,409,048	
1463					
1464	Southern Intertie Facilities				
1465	Transmission Lines	Owner	Investment (\$)	O&M (\$)	Multi %
1466	ALVEY-DIXONVILLE NO 1	BPA/PAC	25,192,398	0	
1467	BIG EDDY 500/230KV TIE NO 1		51,352	1,579	
1468	BIG EDDY-CELILO NO 1		1,284,742	4,869	
1469	BIG EDDY-CELILO NO 2		1,463,788	2,321	
1470	BIG EDDY-CELILO NO 3		373,697	225	
1471	BIG EDDY-CELILO NO 4		249,132	594	
1472	BUCKLEY-GRIZZLY NO 1		9,961,133	14,258	57%
1473	BUCKLEY-MARION NO 1		21,425,547	15,403	50%
1474	CAPTAIN JACK-MALIN NO 1		844,154	2,179	
1475	CAPTAIN JACK-OLINDA NO 1		7,393,503	1,342	
1476	CELILO-SYLMAR NO 1		27,022,357	106,875	
1477	COYOTE SPRINGS-SLATT NO 1		328,931	1,091	12%
1478	DIXONVILLE-MERIDIAN		32,272,663	939	
1479	GRIZZLY-CAPTAIN JACK NO 1		22,226,974	117,127	
1480	GRIZZLY-SUMMER LAKE NO 1		19,480,851	19,985	57%
1481	JOHN DAY-BIG EDDY NO 1		2,008,149	2,431	
1482	JOHN DAY-GRIZZLY NO 1		12,099,924	43,125	
1484	JOHN DAY-GRIZZLY NO 2		10,521,016	28,246	
1485	MARION-ALVEY NO 1		4,456,110	14,597	50%
1486	SLATT-JOHN DAY NO 1		361,130	1,823	7%
1487	Subtotal Lines		199,017,551	379,008	
1488					
1489	Stations	Owner	Investment (\$)	O&M (\$)	Multi %
1490	ALVEY SUBSTATION		7,684,642	42,911	14%
1491	BAKEOVEN COMPENSATION STATION		22,847,075	51,690	
1492	BIG EDDY 500 KV SWITCHYARD		22,550,653	61,279	
1493	BIG EDDY SUBSTATION		63,394,842	554,059	80%
1494	BUCKLEY SUBSTATION		6,512,717	67,869	64%
1495	CAPTAIN JACK SUBSTATION		42,644,042	223,537	
1496	CELILO DC CONVERTER STATION		431,578,992	3,305,649	
1497	CHIEF JOSEPH SUBSTATION		983,516	20,588	3%
1498	DIXONVILLE SUBSTATION	PAC	7,837,854	0	
1499	FORT ROCK COMPENSATION STATION		17,434,354	79,477	
1500	GRIZZLY SUBSTATION		33,613,850	302,695	
1501	JOHN DAY SUBSTATION		13,352,244	126,045	27%

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	A	B	C	D	E
1502	MALIN SUBSTATION	BPA/PAC	28,988,423	250,725	
1503	MARION SUBSTATION		3,403,697	40,506	8%
1504	MERIDIAN SUBSTATION(PACIFICORP)	PAC	9,354,973	0	
1505	ROUND MOUNTAIN SUBSTATION	PG&E	65,046	0	
1506	SAND SPRING COMPENSATION STATION		18,252,013	88,450	
1507	SLATT SUBSTATION		4,071,123	14,651	6%
1508	SUMMER LAKE SUBSTATION	PAC	3,556,234	49,551	57%
1509	SYCAN COMPENSATION STATION		16,203,749	88,859	
1510	SYLMAR DC CONVERTER STATION	LADWP	2,784	0	
1511	Subtotal Stations		754,332,824	5,368,541	
1512	Total Southern Intertie		953,350,374	5,747,549	
1513					
1514	<u>Eastern Intertie Facilities</u>				
1515	Transmission Lines	Owner	Investment (\$)	O&M (\$)	Multi %
1516	BROADVIEW-GARRISON NO 1	BPA/COTP	47,280,913	168,232	
1517	BROADVIEW-GARRISON NO 2	BPA/COTP	46,990,310	144,759	
1518	Subtotal Lines		94,271,222	312,991	
1519					
1520	Stations	Owner	Investment (\$)	O&M (\$)	Multi %
1521	COLSTRIP SUBSTATION	NWE	43,099	1,157	
1522	GARRISON SUBSTATION		27,264,739	196,923	31%
1523	Subtotal Stations		27,307,838	198,079	
1524	Total Eastern Intertie		121,579,061	511,071	
1525					
1526	<u>Utility Delivery Facilities</u>				
1527	Transmission Lines	Owner	Investment (\$)	O&M (\$)	Multi %
1528	ALBANY-BUREAU OF MINES NO 1		23,660	586	
1529	GROUSE CREEK-TECOMA (LEASED FACILITIES)		121,332	0	6%
1530	HOOD RIVER-COOP SERVICE NO 1		160,811	791	
1531	Subtotal Lines		305,802	1,376	
1532					
1533	Stations	Owner	Investment (\$)	O&M (\$)	Multi %
1534	ACTON SUBSTATION		43,859	2,243	18%
1535	ALBANY SUBSTATION		893,523	9,629	7%
1536	BANDON SUBSTATION		696,934	10,203	14%
1537	BONNERS FERRY SUBSTATION		332,623	7,208	14%
1538	BURBANK SUBSTATION		114,552	2,677	18%
1539	BURNT WOODS SUBSTATION		329,274	10,853	65%
1540	CASCADE LOCKS SUBSTATION		243,602	10,926	39%
1541	DAVIS CREEK SUBSTATION	BPA/SVEC	471,589	8,417	86%
1542	DIXIE SUBSTATION		337,515	8,502	45%
1543	DRAIN SUBSTATION		307,669	4,094	10%
1544	EAGLE LAKE SUBSTATION		241,690	9,421	54%
1545	GARDINER SUBSTATION		315,372	12,594	34%
1546	GLADE SUBSTATION		319,684	6,855	58%
1547	HARRISBURG SUBSTATION		190,947	746	4%
1548	HOOD RIVER SUBSTATION		251,183	8,713	19%
1549	IONE SUBSTATION		131,687	4,332	14%
1550	LACLEDE SUBSTATION	BPA/NLI	31,715	7,685	
1551	LANGLOIS SUBSTATION		203,884	2,558	19%
1552	LYNCH CREEK SUBSTATION		545,682	7,739	43%
1553	MAPLETON SUBSTATION		139,657	5,974	14%
1554	MINIDOKA SUBSTATION		246,447	6,735	64%
1555	MONMOUTH SUBSTATION		576,740	13,590	44%
1556	MOUNTAIN AVENUE SUBSTATION		459,331	4,502	22%
1557	NECANICUM SUBSTATION	BPA/WOEC	183,289	5,211	54%
1558	NORTH BENCH SUBSTATION		15,179	144	3%
1559	NORTH BUTTE SUBSTATION	BPA/CPI	65,029	2,489	35%
1560	PARKDALE SUBSTATION		161,852	2,522	13%
1561	PORT ORFORD SUBSTATION		174,549	8,382	37%
1562	POTLATCH SUBSTATION(BPA)		117,768	2,227	11%
1563	REEDSPORT SUBSTATION (BPA)		203,610	3,709	6%
1564	RINGOLD SUBSTATION		116,044	3,359	22%
1565	SANDPOINT SUBSTATION(BPA)		198,146	4,742	15%
1566	SCOOTENEY SUBSTATION		136,876	2,356	9%
1567	SELLE SUBSTATION		332,559	5,467	59%
1568	STATELINE SUBSTATION	BPA/CREA	105,755	15,608	75%
1569	STEILACOOM SUBSTATION		346,790	3,791	31%
1570	SURPRISE LAKE SUBSTATION		155,330	3,605	20%
1571	SWAN VALLEY SUBSTATION		165,344	1,521	2%
1572	TROY SUBSTATION		400,982	12,346	37%
1573	TUMBLE CREEK SUBSTATION		170,214	2,115	17%
1574	TWO MILE ROAD SUBSTATION	BPA/CCEC	443,047	5,535	29%
1575	WALTON SUBSTATION		141,844	6,856	40%
1576	WINTHROP SUBSTATION		180,015	2,092	12%
1577	YAAK SUBSTATION		1,623,661	9,605	81%
1578	Subtotal Stations		12,863,041	269,879	
1579	Total Utility Delivery		13,168,843	271,255	

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	A	B	C	D	E
1580	DSI Delivery Facilities				
1581	Transmission Lines	Owner	Investment (\$)	O&M (\$)	Multi %
1582	None				
1583	Subtotal Lines		0	0	
1584					
1585	Stations	Owner	Investment (\$)	O&M (\$)	Multi %
1586	INTALCO SUBSTATION		6,678,746	145,361	36%
1587	TRENTWOOD SUBSTATION		1,295,709	18,874	18%
1588	Subtotal Stations		7,974,455	164,235	
1589	Total DSI Delivery		7,974,455	164,235	
1590					
1591	Unsegmented Facilities (segmented pro-rata)				
1592	Transmission Lines (allocated by direct line segmentation)	Owner	Investment (\$)	O&M (\$)	Multi %
1593	BALD MOUNTAIN-CONDIT FIBER SYSTEM		6,914	0	
1594	BELLINGHAM-CUSTER FIBER SYSTEM		128,524	0	
1595	BELL-BOUNDARY FIBER SYSTEM		1,196,247	0	
1596	BELL-NOXON FIBER SYSTEM		44,711	0	
1597	BPA SYSTEM-LINES		6,044,940	143,907	
1598	CHENOWETH-HARVEY NO 1		81,982	307	
1599	CHENOWETH-HARVEY NO 2		81,980	179	
1600	CHRISTOPHER TAP TO TACOMA-COVINGTON-4 (RETIRED)		61,063	0	
1601	CONKELLY TAP TO HUNGRY HORSE-COLUMBIA FALLS NO 1 (OBSOLETE)		2,743	0	
1602	COTTAGE GROVE-DRAIN NO 1 (RETIRED)		312,761	0	
1603	COVINGTON-BELL FIBER SYSTEM		80,126	0	
1604	COVINGTON-MAPLE VALLEY FIBER SYSTEM		17,342	0	
1605	FIDALGO-BELLINGHAM FIBER SYSTEM (BLACK ROCK CABLE INC)		360,930	0	
1606	FRANKLIN-HATWAI FIBER SYSTEM		145,266	0	
1607	FRANKLIN-MUNRO FIBER SYSTEM		185,538	0	
1608	FRANZ HOLMES TAP TO COWLITZ-LAGRANDE NO 1,2 (OBSOLETE)		276,241	0	
1609	GRAND COULEE 115KV-GRAND COULEE RS FIBER SEG		18,644	0	
1610	JACKSON TAP TO CANAL-SECOND LIFT NO. 1(SOLD)		47,234	690	
1611	KEELER-ALVEY FIBER SYSTEM		1,018,867	0	
1612	KEELER-COVINGTON FIBER SYSTEM		840,443	0	
1613	LANE-FAIRVIEW FIBER SYSTEM		1,889	270	
1614	MARION-SANTIAM 2 (DE-ENERGIZED)		615,992	103	
1615	NOXON-TAFT FIBER SYSTEM		357,479	0	
1616	OREGON CITY STUB 20/7-23/12 SECTION(DEENERGIZED)		155	0	
1617	PEARL-TROUTDALE FIBER SYSTEM		113,714	0	
1618	REEDSPORT-TAHKENITCH FIBER SYSTEM		24,936	11,910	
1619	ROSS-FRANKLIN FIBER SYSTEM		3,312,226	0	
1620	ROSS-MALIN FIBER SYSTEM		4,670,521	0	
1621	SANTIAM-LYONS UHV XFMR 1		126,000	0	
1622	SWAN VALLEY-SWAN VALLEY RS FIBER SYSTEM		6,690	0	
1623	TUMBLE CREEK-HALL RIDGE NO.1		610,574	6,275	
1624	Subtotal Lines		20,792,672	163,640	
1625					
1626	Stations (allocated according to direct station segmentation)	Owner	Investment (\$)	O&M (\$)	Multi %
1627	ADDY SUBSTATION		1,220,190	10,435	10%
1628	ALCOA SUBSTATION		479,179	13,570	5%
1629	APPLEWAY (INACTIVE)	KEC	24,252	0	
1630	ARGENT(INACTIVE)	FPUD	55,722	0	
1631	BAYSHORE SUBSTATION(OBS-RETIRED)	M3PUD	19,501	0	
1632	BURBANK SUBSTATION		78,480	1,834	13%
1633	CAPE HORN(INACTIVE)	SKPUD	14,135	0	
1634	CENTRALIA START UP(INACTIVE)		13,477	0	
1635	COLUMBIA RIVER RANCH METERING POINT(INACTIVE)		22,761	0	
1636	CONKELLY SUBSTATION		11,421,904	155,165	
1637	EAGLE LAKE SUBSTATION		5,206	203	1%
1638	FOSTER (INACTIVE)	PAC	4,456	0	
1639	GLADE SUBSTATION		38,332	822	7%
1640	GREAT WESTERN MALTING COMPANYSUBSTATION (RETIRED)	CPU	9,499	0	
1641	KAMILCHE SUBSTATION (OBS-RETIRED)	M3PUD	49,049	0	
1642	KIONA HYDROMET STATION		6,709	0	
1643	MOYIE SUBSTATION		206,549	5,490	
1644	NORWAY SUBSTATION	CCEC	13,242	21,662	
1645	PAUL D. JOHNSON SUBSTATION		2,847,803	8,590	
1646	RINGOLD SUBSTATION		31,143	902	6%
1647	SYSTEM WIDE		3,973,625	7,211,299	
1648	TACOMA SUBSTATION		761,802	13,615	4%
1649	TRENTWOOD SUBSTATION		14,939	218	0.2%
1650	VALHALLA SUBSTATION	BPA/CHPD	317,777	9,771	8%
1651	Subtotal Stations		21,629,732	7,453,575	
1652					
1653	Other Locations (allocated by direct station segmentation)	Owner	Investment (\$)		
1654	ALVEY MAINTENANCE HEADQUARTERS		5,494,284		
1655	AUGSPURGER MOUNTAIN RADIO STATION		11,893		
1656	BALD MOUNTAIN RADIO STATION		130,284		
1657	BELL MAINTENANCE HEADQUARTERS		536,791		
1658	BIDDLE BUTTE RADIO STATION		163,480		
1659	BLUE RIDGE RADIO STATION		91,805		
1660	BLYN RADIO STATION		49,178		
1661	BPA SYSTEM		14,801,220		
1662	BPA SYSTEM-MICROWAVE &RADIO STATIONS		182,611		

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	A	B	C	D	E
1664	BPA SYSTEM-NON ELECTRIC PLANT& MISC		4,919,823		
1665	BURLEY MAINTENANCE HEADQUARTERS		6,969		
1666	CAPE BLANCO RADIO STATION (BPA)		58,688		
1667	CHEHALIS MAINTENANCE HEADQUARTERS		88,062		
1668	CHEMAWA MAINTENANCE HEADQUARTERS		74,117		
1669	COVINGTON MAINTENANCE HEADQUARTERS		15,113		
1670	COYOTE HILLS RADIO STATION		25,472		
1671	CULDESAC RADIO STATION		6,995		
1672	CYRUS NOE RADIO STATION		358,292		
1673	DECATUR EAST RADIO STATION		50,787		
1674	DECATUR WEST RADIO STATION		47,229		
1675	DEL RIO RADIO STATION		13,084		
1676	DITTMER BPA SYSTEM CONTROL CENTER		19,286,504		
1677	EASTERN CONTROL CENTER		32,523		
1678	EUGENE C. STARR COMPLEX		9,922,339		
1679	GRAND COULEE RADIO STATION		47,372		
1680	GRANITE MOUNTAIN RADIO STATION		144,812		
1681	GREEN MOUNTAIN PASSIVE REPEATER SITE		3,007		
1682	HORSE ROCK RADIO STATION		(2,444)		
1683	KAHLOTUS RADIO STATION		370,232		
1684	KALISPELL MAINTENANCE HEADQUARTERS		29,664		
1685	KEELER MAINTENANCE HEADQUARTERS		40,199		
1686	KENNEWICK RADIO STATION		49,374		
1687	KENYON MOUNTAIN RADIO STATION		76,727		
1688	LAKESIDE RADIO STATION		91,184		
1689	LEWISTON MAINTENANCE HEADQUARTERS		59,008		
1690	LONGVIEW ANNEX I		4,156,172		
1691	LONGVIEW MAINTENANCE HEADQUARTERS		6,038,256		
1692	LOWELL BUTTE RADIO STATION		7,559		
1693	MALAGA RADIO STATION		17,384		
1694	MALIN MAINTENANCE HEADQUARTERS		398,113		
1695	MARYS PEAK RADIO STATION		5,002		
1696	MEGLER RADIO STATION		11,556		
1697	MILLER PEAK RADIO STATION		117,099		
1698	MINT FARM GENERATING PLANT (INACTIVE)		36,768		
1699	MT. HEBO RADIO STATION		12,244		
1700	MUNRO BPA SYSTEM CONTROL CENTER		6,580,508		
1701	NASELLE RIDGE RADIO STATION		295,505		
1702	NEKITPE MAINTENANCE HEADQUARTERS		3,511,268		
1703	NORTH BEND MAINTENANCE HEADQUARTERS		723,564		
1704	NORTH BONNEVILLE ANNEX		29,495		
1705	ODELL BUTTE RADIO STATION		92,507		
1706	OLYMPIA MAINTENANCE HEADQUARTERS		166,376		
1707	OSTRANDER PASSIVE REPEATER SITE		25,022		
1708	PASCO MAINTENANCE HEADQUARTERS		89,312		
1709	POMEROY RADIO STATION		458,885		
1710	REDMOND MAINTENANCE HEADQUARTERS		247,649		
1711	ROCKDALE PASSIVE REPEATER N1 SITE		85,587		
1712	ROCKY RIDGE RADIO STATION		114,415		
1713	ROOSEVELT RADIO STATION		13,534		
1714	ROSS AMPERE BUILDING		822,365		
1715	ROSS COMPLEX		29,918,279		
1716	ROSS CONSTRUCTION AND SERVICES BUILDING		153,407		
1717	ROSS FOG TEST BUILDING		81,579		
1718	ROSS HEATLINE		6,923,624		
1719	ROSS MOBILE STORAGE		8,112		
1720	ROSS RADIO STATION		7,516		
1721	RUBY MOUNTAIN		108,499		
1722	SCHULTZ MAINTENANCE HEADQUARTERS		1,377,094		
1723	SCOTT MOUNTAIN RADIO STATION		84,358		
1724	SEATTLE RADIO STATION		3,939		
1725	SHANIKO RADIO STATION		17,135		
1726	SICKLER MAINTENANCE HEADQUARTERS		50,012		
1727	SKYROCKET RADIO STATION		6,481		
1728	SNOHOMISH MAINTENANCE HEADQUARTERS		58,551		
1729	SOUTH MOUNTAIN RADIO STATION		2,770		
1730	SPOKANE HANGAR		75,378		
1731	SQUAK MOUNTAIN RADIO STATION		4,272		
1732	SWAN LAKE POINT RADIO STATION		1,220,188		
1733	TACOMA PUBLIC UTILITIES DISPATCH CENTER		36,618		
1734	TACOMA RADIO STATION		158,688		
1735	WALKER MOUNTAIN RADIO STATION		625,240		
1736	WEST PORTLAND RADIO STATION		51,705		
1737	Subtotal Other		122,306,266		
1738					
1739	Emergency Stock (allocatedby direct sub segmentation)	Owner	Investment (\$)		
1740	ROSS WAREHOUSE		13,093,810		
1741	Subtotal Emergency Stock		13,093,810		

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	A	B	C	D	E
1742					
1743	<u>Depreciable Land</u>				
1744	Station Land (segmented to Network)	Owner	Investment (\$)		
1745	LA PINE SUBSTATION		18,619		
1746	NOXON CONSTRUCTION SUBSTATION		1		
1747	OKANOGAN SUBSTATION		14,156		
1748	SIFTON SUBSTATION		12,810		
1749	Subtotal Stations		45,586		
1750					
1751	Transmission Line Land (segmented to Network)	Owner	Investment (\$)		
1752	ALBANY-BURNT WOODS NO 1		307,619		
1753	ASHE-SLATT NO 1		19,806		
1754	BELL-ADDY NO 1		5,046		
1755	BELL-BOUNDARY NO 3		5,046		
1756	BELL-LANCASTER NO 1		8,276		
1757	BIG EDDY-CHENOWETH NO 1		387,831		
1758	BIG EDDY-CHENOWETH NO 2		387,596		
1759	BIG EDDY-SPRING CREEK NO 1		391,887		
1760	CHEHALIS-OLYMPIA NO 1		793		
1761	CHEHALIS-RAYMOND NO 1		47,011		
1762	CHIEF JOSEPH-EAST OMAK NO 1		10,724		
1763	CHIEF JOSEPH-MONROE NO 1		141,953		
1764	CHIEF JOSEPH-SNOHOMISH NO 3		31,581		
1765	COLUMBIA-ELLENSBURG NO 1		181,965		
1766	DE MOSS-FOSSIL NO 1		320		
1767	DWORSHAK PH-OROFINO NO 1		400		
1768	EAST OMAK TAP TO GRAND COULEE-FOSTER CREEK NO 1		174,817		
1769	FAIRVIEW-BANDON NO 2		1,602		
1770	FIDALGO-LOPEZ ISLAND NO 5		63,802		
1771	FLATHEAD-HOT SPRINGS NO 1		10,728,941		
1772	FOREST GROVE-TILLAMOOK NO 1		1,731		
1773	FRANKLIN-BADGER CANYON NO 1		1,432		
1774	GARRISON-ANACONDA NO 1		149,847		
1775	GOSHEN-DRUMMOND NO 1		3,924		
1776	GRAND COULEE-BELL NO 5		2,114,751		
1777	GRAND COULEE-CRESTON NO 1		6,051		
1778	GRAND COULEE-HANFORD NO 1		14,375		
1779	GRAND COULEE-OKANOGAN NO 2		470		
1780	GRAND COULEE-SCHULTZ NO 1		24,380		
1781	HARVALUM-BIG EDDY NO 1		19,142,567		
1782	HORSE HEAVEN-HARVALUM NO 1		387,596		
1783	HOT SPRINGS-RATTLESNAKE NO 1		6,007,072		
1784	HUNGRY HORSE-CONKELLEY NO 1		6,043		
1785	KEELER-OREGON CITY NO 2		8,729		
1786	KELLER TAP TO GRAND COULEE-OKANOGAN NO 2		3,200		
1787	KLONDIKE SCHOOLHOUSE-JOHN DAY NO 1		657,883		
1788	LANCASTER-NOXON NO 1		82,527		
1789	LIBBY-BONNERS FERRY NO 1		17,012		
1790	LONGVIEW-WASHINGTON WAY NO 1		211,016		
1791	LOWER MONUMENTAL-MCNARY NO 1		1,071		
1792	MCNARY-ROSS NO 1		387,596		
1793	OLYMPIA-GRAND COULEE NO 1		16,745		
1794	OLYMPIA-SATSOP NO 3		27,986		
1795	OSTRANDER-PEARL NO 1		45,358		
1796	PALISADES-CATTLE CREEK NO 1		89,749		
1797	PAUL-ALLSTON NO 2		236		
1798	RAVER-COVINGTON NO 2		387,596		
1799	RAYMOND-COSMOPOLIS NO 1		36,335		
1800	ROCKY REACH-MAPLE VALLEY NO 1		210,071		
1801	ROSS-LEXINGTON NO 1		82,898		
1802	ROUNDUP-LAGRANDE NO 1		645,809		
1803	SANTIAM-TOLEDO NO 1		78,122		
1804	SCHULTZ-WAUTOMA NO 1		2,277,742		
1805	SPIRIT TAP TO COLVILLE-BOUNDARY NO 1		24,206		
1806	SWAN VALLEY-TETON NO 1		54,679		
1807	TAFT-BELL NO 1		133,069		
1808	TUCANNON RIVER-NORTH LEWISTON NO 1		862,880		
1809	WALLA WALLA-PENDLETON NO 1		126,393		
1810	WALLA WALLA-TUCANNON RIVER NO 1		1,340		
1811	WAUTOMA-OSTRANDER NO 1		11,834		
1812	WAUTOMA-ROCK CREEK NO 1		391,431		
1813	Subtotal Network Line Land		47,630,770		
1814					

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1815	Transmission Line Land (segmented to Generation Integration)	Owner	Investment (\$)		
1816	ANDERSON RANCH-MOUNTAIN HOME NO 1		60,166		
1817	DETROIT-SANTIAM NO 1		677		
1818	Subtotal GI Line Land		60,843		
1819					
1820	Transmission Line Land (segmented pro-rata)	Owner	Investment (\$)		
1821	COVINGTON-MAPLE VALLEY FIBER SYSTEM		23,437		
1822	FRANKLIN-HATWAI FIBER SYSTEM		82,675		
1823	HOT SPRINGS-GARRISON FIBER SYSTEM		58,561		
1824	PENDLETON-LAGRANDE (INACTIVE)		195		
1825	ROSS-FRANKLIN FIBER SYSTEM		97,757		
1826	Subtotal Line Land pro-rata		262,624		
1827					
1828	Other Facility Land (segmented pro-rata)	Owner	Investment (\$)		
1829	ALBION BUTTE RADIO STATION		6,356		
1830	APPLEGATE BUTTE RADIO STATION		49,780		
1831	BOISTFORT PEAK RADIO STATION(WEYERHOUSER)		9,081		
1832	CAPE BLANCO RADIO STATION (BPA)		118,992		
1833	CAPITOL PEAK RADIO STATION(BPA)		1,916		
1834	ELLIS RADIO STATION		6,824		
1835	HAYSTACK BUTTE RADIO STATION		388,346		
1836	INDIAN MOUNTAIN RADIO STATION		72,672		
1837	SEVEN MILE HILL METEOROLOGICAL TOWER		15,105		
1838	SICKLER PASSIVE REPEATER SITE		913		
1839	SWAN LAKE POINT RADIO STATION		53,959		
1840	Subtotal Other pro-rata		723,944		
1841					
1842	Ancillary Service Facilities				
1843	Communication and Control Equipment ***	Owner	Investment (\$)		
1844	ABERDEEN SUBSTATION		124,433		
1845	ADAIR SUBSTATION(BPA)		2,942		
1846	ADDY SUBSTATION		144,423		
1847	ALBANY SUBSTATION		19,129		
1848	ALBENI FALLS SUBSTATION		5,807		
1849	ALCOA SUBSTATION		36,284		
1850	ALFALFA SUBSTATION		5,205		
1851	ALLSTON SUBSTATION		243,680		
1852	ALVEY SUBSTATION		1,105,177		
1853	ANACONDA SUBSTATION		164,488		
1854	ASHE SUBSTATION		213,233		
1855	BALD MOUNTAIN SUBSTATION		425,844		
1856	BANDON SUBSTATION		16,566		
1857	BEAVER SUBSTATION (PGE)		210,386		
1858	BELL SUBSTATION		805,634		
1859	BENTON SUBSTATION		3,839		
1860	BETTAS ROAD SUBSTATION		213,160		
1861	BIDDLE BUTTE RADIO STATION		19,865		
1862	BIG EDDY 500 KV SWITCHYARD		368,803		
1863	BIG EDDY SUBSTATION		1,421,925		
1864	BOARDMAN SUBSTATION		105,785		
1865	BONNERS FERRY SUBSTATION		151,071		
1866	BONNEVILLE BUILDING PORTLAND		92,338		
1867	BONNEVILLE POWERHOUSE #1		343,690		
1868	BOUNDARY SUBSTATION		211,900		
1869	BPA HEADQUARTERS BUILDING		6,225		
1870	BPA SYSTEM		5,278,582		
1871	BPA SYSTEM-NON ELECTRIC PLANT& MISC		57,849		
1872	BRASADA SUBSTATION (CENTRAL ELECTRIC COOPERATIVE)	CEC	187,017		
1873	BRIDGE SUBSTATION		34,676		
1874	BUCK BUTTE RADIO STATION		8,923		
1875	BUCKLEY SUBSTATION		294,965		
1876	CALPINE SUBSTATION	CPN	432,496		
1877	CAPTAIN JACK SUBSTATION		2,045,164		
1878	CARLTON SUBSTATION		9,310		
1879	CASCADE STEEL SUBSTATION	MWL	7,187		
1880	CATTLE CREEK SWITCHING STATION		317,813		
1881	CELILO DC CONVERTER STATION		1,150,522		
1882	CENTRAL FERRY SUBSTATION		76,802		
1883	CHEHALIS RADIO STATION		2,057		
1884	CHEHALIS SUBSTATION		353,386		
1885	CHEMAWA SUBSTATION		65,891		
1886	CHENOWETH SUBSTATION		22,055		
1887	CHIEF JOSEPH SUBSTATION		24,770		
1888	COLUMBIA FALLS ALUMINUM COMPANY SUBSTATION		19,459		
1889	COLUMBIA FALLS SUBSTATION - 230 KV YARD		167,581		
1890	COLUMBIA SUBSTATION		67,350		
1891	COLVILLE SUBSTATION		11,883		
1892	CONDON SUBSTATION	CBEC	29,512		
1893	CONDON WIND SUBSTATION(SEAWEST)	SEAWEST	283,503		
1894	CONKELLEY SUBSTATION		103,189		
1895	CONNELL SUBSTATION	BPA/FPUD	14,474		
1896	COSMOPOLIS SUBSTATION		69,807		
1897	COVINGTON SUBSTATION		239,285		
1898	COWLITZ SUBSTATION		32,603		
1899	COYOTE SPRINGS SUBSTATION	PGE	22,177		
1900	CRESTON SUBSTATION(BPA)	BPA/IPL	144,561		

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	A	B	C	D	E
1901	CULDESAC RADIO STATION		533		
1902	CUSTER SUBSTATION		303,005		
1903	DAY MT. SPOKANE		42,737		
1904	DE MOSS SUBSTATION(BPA)		619,435		
1905	DEER PARK SUBSTATION	BPA/IPL/AVA	3,886		
1906	DITTMER BPA SYSTEM CONTROL CENTER		94,779,365		
1907	DRAIN SUBSTATION		16,206		
1908	DRISCOLL SUBSTATION		46,177		
1909	DRUMMOND SUBSTATION	BPA/FREC	319,943		
1910	DWORSHAK POWERHOUSE		130,599		
1911	DWORSHAK SUBSTATION		601,088		
1912	EAST OMAK SUBSTATION		164,065		
1913	EASTERN CONTROL CENTER		3,697		
1914	EASTSIDE SYSTEM CONTROL CENTER(PSE)	PSE	8,768		
1915	ECHO LAKE SUBSTATION		127,022		
1916	ELLENSBURG SUBSTATION		277,176		
1917	EUGENE C. STARR COMPLEX		31,743		
1918	EUGENE SUBSTATION		75,533		
1919	FAIRMOUNT SUBSTATION		243,792		
1920	FAIRVIEW SUBSTATION(BPA)		153,134		
1921	FIDALGO SUBSTATION		6,872		
1922	FLATHEAD SUBSTATION(BPA & FLATHEAD ELEC)	BPA/FEC	770,413		
1923	FOREST GROVE SUBSTATION	BPA/FORG	112,995		
1924	FORT ROCK COMPENSATION STATION		1,957,987		
1925	FORT ROCK SUBSTATION (MIDSTATE ELECTRIC COOP)	MSEC	27,484		
1926	FOSSIL SUBSTATION		68,698		
1927	FRANKLIN SUBSTATION	BPA/FPUD	201,996		
1928	FREEWATER SUBSTATION(BPA)	BPA/CMF	9,568		
1929	GARRISON SUBSTATION		3,211,531		
1930	GOSHEN SUBSTATION(UTAH POWER & LIGHT)	BPA/PAC-ID	338,248		
1931	GRAND COULEE 115 KV SWITCHYARD		869,968		
1932	GRAND COULEE 230 KV SWITCHYARD		709,551		
1933	GRAND COULEE 500 KV SWITCHYARD		167,375		
1934	GRAND COULEE RADIO STATION		208,028		
1935	GRAND COULEE SUBSTATION	GPUD	93,082		
1936	GRANDVIEW SUBSTATION	BPA/BREA	13,048		
1937	GRIZZLY SUBSTATION		4,039		
1938	HANFORD SUBSTATION		1,018,176		
1939	HAPPY CAMP RADIO STATION(PG&E)	PG&E	44,805		
1940	HARNEY SUBSTATION(BPA)		142,960		
1941	HARRISBURG SUBSTATION		21,040		
1942	HARVALUM SUBSTATION		87,668		
1943	HAT ROCK SUBSTATION		150,853		
1944	HATWAI SUBSTATION		562,608		
1945	HAY CANYON SUBSTATION (IBERDOLA)	IBER	52,792		
1946	HEYBURN SUBSTATION		312,945		
1947	HILLTOP SUBSTATION	BPA/NVE	30,653		
1948	HOOPER SPRINGS SUBSTATION		6,178		
1949	HORN BUTTE SUBSTATION (INVENERGY WIND)	INVER	245,607		
1950	HORSE HEAVEN SUBSTATION		135,366		
1951	HOT SPRINGS SUBSTATION		611,044		
1952	HUNGRY HORSE POWERHOUSE		468,842		
1953	IONA BUTTE RADIO STATION		2,590		
1954	JOHN DAY SUBSTATION		781,170		
1955	JONES CANYON SUBSTATION		568,665		
1956	KALISPELL SUBSTATION(BPA)		272,842		
1957	KEELER SUBSTATION		45,264		
1958	KENNEWICK RADIO STATION		3,749		
1959	KITSAP SUBSTATION		112,891		
1960	KNIGHT SUBSTATION		119,326		
1961	LA GRANDE SUBSTATION		69,987		
1962	LA PINE SUBSTATION		107,659		
1963	LANCASTER SUBSTATION(BPA)		181,691		
1964	LANE SUBSTATION		26,615		
1965	LEBANON SUBSTATION		81,133		
1966	LEXINGTON SUBSTATION		427,143		
1967	LIBBY SUBSTATION(BPA)		25,470		
1968	LITTLE GOOSE POWERHOUSE		26,862		
1969	LITTLE GOOSE SUBSTATION		1,398,760		
1970	LONGVIEW SUBSTATION		472,536		
1971	LOOKOUT POINT SUBSTATION		62,551		
1972	LOPEZ ISLAND SUBSTATION(BPA)		6,079		
1973	LOST RIVER SUBSTATION	BPA/LREC	9,581		
1974	LOWER GRANITE SUBSTATION		396,323		
1975	LOWER MONUMENTAL SUBSTATION		805,966		
1976	MACKS INN SUBSTATION	FREC	8,757		
1977	MALIN MAINTENANCE HEADQUARTERS		18,700		
1978	MALIN SUBSTATION	BPA/PAC	98,892		
1979	MAPLE VALLEY SUBSTATION		133,070		
1980	MARION SUBSTATION		51,653		
1981	MARTIN CREEK SUBSTATION		326,577		
1982	MAUPIN SUBSTATION		50,782		
1983	MCLOUGHLIN SUBSTATION	PGE	77,459		
1984	MCMINNVILLE SUBSTATION	BPA/MWL	10,910		
1985	MCNARY SUBSTATION		725,584		
1986	MIDWAY SUBSTATION(BPA)		104,249		
1987	MONMOUTH SUBSTATION		3,517		

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	A	B	C	D	E
1988	MONROE SUBSTATION		1,084,337		
1989	MORROW FLAT		549,321		
1990	MOXEE SUBSTATION		36,140		
1991	MT. HEBO RADIO STATION		147		
1992	MUNRO BPA SYSTEM CONTROL CENTER		27,469,887		
1993	MURRAY SUBSTATION		20,791		
1994	NAPAVINE SUBSTATION		129,951		
1995	NASELLE SUBSTATION		188,956		
1996	NINE CANYON SUBSTATION (BENTON PUD)	BPUD	209,461		
1997	NINE MILE SUBSTATION (FPLE)	FPLE	266,939		
1998	NORTH BONNEVILLE SUBSTATION	BPA/SKPUD	240,098		
1999	NOXON CONSTRUCTION SUBSTATION	AVA	982		
2000	OLYMPIA SUBSTATION		68,877		
2001	OREGON CITY SUBSTATION		28,997		
2002	OSTRANDER SUBSTATION		58,661		
2003	PALISADES POWERHOUSE		31,408		
2004	PAUL SUBSTATION		247,644		
2005	PEARL SUBSTATION		269,322		
2006	PLUM RADIO STATION		60,316		
2007	PONDEROSA SUBSTATION(BPA)		153,679		
2008	PORT ANGELES SUBSTATION(BPA)		307,221		
2009	RATTLESNAKE SUBSTATION(MPC)	NWE	93,655		
2010	RAVER SUBSTATION		164,049		
2011	RAYMOND SUBSTATION		73,048		
2012	RED MOUNTAIN SUBSTATION		616,939		
2013	REDMOND SUBSTATION(BPA)		145,276		
2014	REEDSPORT SUBSTATION (BPA)		347,724		
2015	ROCK CREEK SUBSTATION		167,443		
2016	ROCKY REACH SWITCHYARD		10,008		
2017	ROGUE SUBSTATION		454,162		
2018	ROSS AMPERE BUILDING		36,338		
2019	ROSS SUBSTATION		726,261		
2020	ROUND VALLEY SUBSTATION		9,332		
2021	ROUNDUP SUBSTATION		103,349		
2022	SACAJAWEA SUBSTATION		469,560		
2023	SAND CREEK SUBSTATION		10,972		
2024	SAND SPRING COMPENSATION STATION		2,234,517		
2025	SANDPOINT SUBSTATION(BPA)		11,082		
2026	SANTIAM SUBSTATION		42,441		
2027	SAPPHO SUBSTATION		4,868		
2028	SATSOP PARK SUBSTATION (GHPUD)	GHPUD	145,892		
2029	SATSOP SUBSTATION(BPA)		468,320		
2030	SCHULTZ SUBSTATION		137,683		
2031	SEDRO WOOLLEY SUBSTATION	PSE	25,481		
2032	SHANO SUBSTATION	BBEC	4,255		
2033	SHELTON SUBSTATION		216,256		
2034	SICKLER SUBSTATION		272,732		
2035	SIFTON SUBSTATION		94,714		
2036	SILVER CREEK SUBSTATION		235,115		
2037	SKYROCKET RADIO STATION		8,902		
2038	SLATT SUBSTATION		381,029		
2039	SNOHOMISH SUBSTATION		723,586		
2040	SNO-KING SUBSTATION		242,872		
2041	SOUTH TACOMA SUBSTATION		187,314		
2042	SPAR CANYON SUBSTATION	SREC	8,749		
2043	SPRING CREEK SUBSTATION		34,581		
2044	ST. JOHNS SUBSTATION		34,628		
2045	STEILACOOM SUBSTATION		2,911		
2046	SUMMER LAKE SUBSTATION		35,875		
2047	SWAN VALLEY RADIO STATION		8,904		
2048	SWAN VALLEY SUBSTATION		274,775		
2049	SYCAN COMPENSATION STATION		1,197,723		
2050	SYSTEM WIDE		799,397		
2051	TACOMA RADIO STATION		15,376		
2052	TACOMA SUBSTATION		139,864		
2053	TAFT SUBSTATION		379,548		
2054	TAHKENITCH SUBSTATION		136,715		
2055	TARGHEE SUBSTATION	BPA/FREC	12,526		
2056	TEAKEAN BUTTE RADIO STATION		66,706		
2057	TETON SUBSTATION		364,191		
2058	THE DALLES POWERHOUSE		241,133		
2059	THE DALLES SUBSTATION	BPA/NWPUD/WEC	102,870		
2060	TILLAMOOK SUBSTATION		25,845		
2061	TINCUP SUBSTATION	LVE	147,498		
2062	TOLEDO SUBSTATION		299,940		
2063	TROUTDALE SUBSTATION(BPA)		66,253		
2064	TUCANNON RIVER SUBSTATION		209,349		
2065	UNITY SUBSTATION(BPA)	BPA/UEC	8,457		
2066	USK SUBSTATION(BPA)		308,498		
2067	VALHALLA SUBSTATION	BPA/CHPD	715,402		
2068	VANSYCLE RIDGE WIND GENERATION FACILITY		68,676		
2069	VANTAGE SUBSTATION		950,015		
2070	WALLA WALLA SUBSTATION(BPA)		345,896		
2071	WARNER SUBSTATION		15,965		
2072	WAUTOMA SUBSTATION		615,835		
2073	WENDSON SUBSTATION		303,201		

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2074	WEYERHAEUSER INDUSTRIAL WAY WEYCO NO 1 SUBSTATION (COWLITZ		8,630		
2075	WHITE BLUFFS SUBSTATION		205,980		
2076	WHITE CREEK SUBSTATION (KPUD)	KPUD	436,404		
2077	WILLIS SUBSTATION (KPUD)	KPUD	353,448		
2078	WINE COUNTRY SUBSTATION	BPA/PAC	162,189		
2079	Total Ancillary Service		185,654,276		
2080	*** FERC Account 353(1) Control, 391(2.2) Hardware, 391(3.2) Software, and 397(104,108) SCADA Communications				
2081					
2082	General Plant Facilities				
2083	General Plant	Owner	Investment (\$)		
2084	ABERDEEN SUBSTATION		51,922		
2085	ADDY SUBSTATION		394,181		
2086	ADEL RADIO STATION		1,153,729		
2087	ALBANY SUBSTATION		367,297		
2088	ALBANY-EUGENE NO 1		417,035		
2089	ALBENI FALLS RADIO STATION (USCE)	USCE	167,336		
2090	ALBION BUTTE RADIO STATION		855,859		
2091	ALCOA SUBSTATION		363,429		
2092	ALDER METERING POINT		9,317		
2093	ALFALFA SUBSTATION		109,518		
2094	ALLSTON SUBSTATION		1,920,168		
2095	ALVEY MAINTENANCE HEADQUARTERS		844,250		
2096	ALVEY SUBSTATION		5,080,752		
2097	ANACONDA SUBSTATION		231,073		
2098	APPLEGATE BUTTE RADIO STATION		1,813,502		
2099	ARTONDALE SUBSTATION		38,647		
2100	ASHE MAINTENANCE HEADQUARTERS		2,409,638		
2101	ASHE SUBSTATION		6,529,935		
2102	ASHTON HILL RADIO STATION		155,791		
2103	AUGSPURGER MOUNTAIN RADIO STATION		376,412		
2104	BADGER CANYON SUBSTATION		1,318,867		
2105	BAKEOVEN COMPENSATION STATION		20,113		
2106	BALD MOUNTAIN RADIO STATION		3,501,519		
2107	BALD PEAK RADIO STATION		75,521		
2108	BANDON SUBSTATION		719,357		
2109	BEAVER SUBSTATION (PGE)	PGE	85,273		
2110	BELL MAINTENANCE HEADQUARTERS		6,902,963		
2111	BELL SUBSTATION		6,613,812		
2112	BELL-BOUNDARY FIBER SYSTEM		6,242,822		
2113	BELL-BOUNDARY NO 1		9,423,135		
2114	BELLINGHAM SUBSTATION(BPA)		1,396,993		
2115	BELLINGHAM-CUSTER FIBER SYSTEM		3,760,858		
2116	BELL-NOXON FIBER SYSTEM		10,839		
2117	BENNETT MOUNTAIN RADIO STATION		89,534		
2118	BENTON SUBSTATION		683,987		
2119	BENTON-FRANKLIN NO 1		15,180		
2120	BETTAS ROAD SUBSTATION		699,825		
2121	BEVERLY RADIO STATION		164,036		
2122	BIDDLE BUTTE RADIO STATION		67,771		
2123	BIG EDDY 500 KV SWITCHYARD		728,443		
2124	BIG EDDY SUBSTATION		4,055,662		
2125	BIG EDDY-KNIGHT NO 1		4,929,292		
2126	BIG EDDY-TROUTDALE NO 1		63,155		
2127	BIRCH CREEK RADIO STATION		29,191		
2128	BLACK MOUNTAIN RADIO STATION		142,017		
2129	BLACKTAIL PEAK RADIO STATION		914,587		
2130	BLUE RIDGE RADIO STATION		457,725		
2131	BLYN RADIO STATION		201,541		
2132	BOARDMAN SUBSTATION		570,405		
2133	BOARDMAN-ALKALI NO 1		(5,942)		
2134	BOISTFORT PEAK RADIO STATION(WEYERHOUSER)		55,063		
2135	BONNERS FERRY SUBSTATION		53,864		
2136	BONNEVILLE POWERHOUSE #1		3,513		
2137	BOUNDARY SUBSTATION		3,120,301		
2138	BPA HEADQUARTERS BUILDING		94,536		
2139	BPA SYSTEM		19,043,828		
2140	BPA SYSTEM-LINES		144,773		
2141	BPA SYSTEM-MICROWAVE &RADIO STATIONS		469,131		
2142	BPA SYSTEM-NON ELECTRIC PLANT& MISC		120,013,962		
2143	BRADFORD ISLAND RADIO STATION		58,502		
2144	BRASADA SUBSTATION (CENTRAL ELECTRIC COOPERATIVE)	CEC	606,534		
2145	BRIDGE SUBSTATION		271,662		
2146	BROADVIEW SUBSTATION		36,126		
2147	BROOKDALE SUBSTATION(ELMHURSTMUTUAL PWR & LIGHT)	ELM	44,058		
2148	BUCK BUTTE RADIO STATION		1,598,343		
2149	BUCKLEY SUBSTATION		1,865,975		
2150	BURLEY MAINTENANCE HEADQUARTERS		57,779		

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2151	BURNS RADIO STATION		195,390		
2152	CABBAGE HILL RADIO STATION		84,401		
2153	CALPINE SUBSTATION		440,879		
2154	CAPE BLANCO RADIO STATION (BPA)		902,315		
2155	CAPITOL PEAK RADIO STATION(BPA)		782,686		
2156	CAPTAIN JACK SUBSTATION		3,104,087		
2157	CARDWELL SUBSTATION		213,502		
2158	CARLTON SUBSTATION		341,781		
2159	CASCADE STEEL SUBSTATION		28,301		
2160	CATHLAMET SUBSTATION		17,960		
2161	CATTLE CREEK SWITCHING STATION		1,282,675		
2162	CELILO DC CONVERTER STATION		6,586,911		
2163	CELILO MAINTENANCE HEADQUARTERS		21,287		
2164	CENTRAL FERRY SUBSTATION		334,621		
2165	CENTRALIA SUBSTATION		31,477		
2166	CHEHALIS MAINTENANCE HEADQUARTERS		79,987		
2167	CHEHALIS RADIO STATION		128,615		
2168	CHEHALIS SUBSTATION		2,146,380		
2169	CHEMAWA MAINTENANCE HEADQUARTERS		93,505		
2170	CHEMAWA SUBSTATION		6,921,545		
2171	CHENOWETH SUBSTATION		348,367		
2172	CHIEF JOSEPH POWERHOUSE		508,107		
2173	CHIEF JOSEPH SUBSTATION		3,441,868		
2174	CLATSOP SUBSTATION		10,265		
2175	COBURG RADIO STATION		225,732		
2176	COBURG SUBSTATION		140,618		
2177	COLSTRIP SES		41,676		
2178	COLSTRIP SUBSTATION		165,332		
2179	COLUMBIA FALLS SUBSTATION -- 115 YARD		558,664		
2180	COLUMBIA FALLS SUBSTATION - 230 KV YARD		963,012		
2181	COLUMBIA FALLS-KALISPELL NO 1		31,810		
2182	COLUMBIA GENERATING STATION SUBSTATION (ENERGY NORTHWEST)		3,701,030		
2183	COLUMBIA GENERATING STATION-ASHE FIBER SYSTEM		126,744		
2184	COLUMBIA SUBSTATION		3,026,280		
2185	COLVILLE SUBSTATION		185,792		
2186	CONDON WIND SUBSTATION(SEAWEST)		17,366		
2187	CONKELLEY SUBSTATION		1,387,183		
2188	COSMOPOLIS SUBSTATION		45,953		
2189	COVINGTON MAINTENANCE HEADQUARTERS		785,206		
2190	COVINGTON SUBSTATION		4,024,294		
2191	COVINGTON-BELL FIBER SYSTEM		18,377,621		
2192	COVINGTON-BETTAS ROAD NO 1		402,607		
2193	COVINGTON-MAPLE VALLEY FIBER SYSTEM		2,941,491		
2194	COVINGTON-MUNRO FIBER SYSTEM(INACTIVE SEE NOTES)		1,383,291		
2195	COWLITZ SUBSTATION		219,418		
2196	COYOTE HILLS RADIO STATION		1,373,033		
2197	COYOTE SPRINGS SUBSTATION		646,927		
2198	CRESTON SUBSTATION(BPA)		513,850		
2199	CULDESAC RADIO STATION		12,970		
2200	CUSICK SUBSTATION		2,103,535		
2201	CUSTER MAINTENANCE HEADQUARTERS		724,085		
2202	CUSTER SUBSTATION		2,580,623		
2203	CUSTER-INGLEDOW NO 1		190,843		
2204	CYRUS NOE RADIO STATION		31,091		
2205	DAVENPORT RADIO STATION		85,991		
2206	DAY MT. SPOKANE		124,716		
2207	DE MOSS SUBSTATION(BPA)		454,560		
2208	DECATUR SUBSTATION		134,517		
2209	DEL RIO RADIO STATION		964,598		
2210	DEVILS MOUNTAIN RADIO STATION		316,863		
2211	DITTMER BPA SYSTEM CONTROL CENTER		37,414,773		
2212	DIXON SUBSTATION		330,194		
2213	DIXONVILLE SUBSTATION		164,947		
2214	DOUGLAS SWITCHYARD		68,042		
2215	DRAIN SUBSTATION		21,211		
2216	DRISCOLL SUBSTATION		411,453		
2217	DRISCOLL-NAELLE NO 1		274,886		
2218	DRUMMOND SUBSTATION		130,515		
2219	DWORSHAK POWERHOUSE		56,179		
2220	DWORSHAK SUBSTATION		588,084		
2221	EAST OMAK SUBSTATION		189,282		
2222	EASTERN CONTROL CENTER		1,102,073		
2223	EASTON RADIO STATION		399,978		
2224	ECHO LAKE SUBSTATION		2,901,352		
2225	ECHO LAKE-MONROE-SNOHOMISH FIBER SYSTEM		4,908,397		
2226	EE CLOUSE SUBSTATION (KLICKITAT)	KPUD	46,921		

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	A	B	C	D	E
2227	ELLENSBURG SUBSTATION		377,775		
2228	ELLENSBURG-MOXEE NO 1		254,038		
2229	ELLIS MOUNTAIN RADIO STATION		32,352		
2230	ENERGIZER SUBSTATION (KPUD)	KPUD	26,202		
2231	EUGENE C. STARR COMPLEX		3,484,186		
2232	EUGENE SUBSTATION		346,448		
2233	EUGENE-ALDERWOOD NO 1		417,035		
2234	FAIRMOUNT SUBSTATION		296,301		
2235	FAIRVIEW SUBSTATION(BPA)		1,242,170		
2236	FIDALGO SUBSTATION		519,323		
2237	FIDALGO-LOPEZ ISLAND NO 5		95,100		
2238	FLATHEAD SUBSTATION(BPA & FLATHEAD ELEC)	BPA/FEC	1,170,502		
2239	FOREST GROVE SUBSTATION		94,094		
2240	FOREST GROVE-MCMINNVILLE NO 1		6,668		
2241	FOREST GROVE-TILLAMOOK NO 1		14,894		
2242	FORT ROCK COMPENSATION STATION		1,435,362		
2243	FORT ROCK SUBSTATION (MIDSTATE ELECTRIC COOP)	MSEC	163,855		
2244	FOSSIL SUBSTATION		65,317		
2245	FOSTER CREEK RADIO STATION		632,690		
2246	FOSTER SUBSTATION		16,933		
2247	FRANKLIN MAINTENANCE HEADQUARTERS		233,605		
2248	FRANKLIN SUBSTATION		3,927,437		
2249	FRANKLIN-HATWAI FIBER SYSTEM		3,030,278		
2250	FRANKLIN-MUNRO FIBER SYSTEM		16,519,733		
2251	FRANZ HOLMES SUBSTATION		2,341		
2252	FREDERICKSON GENERATING PLANT(FREDERICKSON POWER LP) FRED PWR		119,537		
2253	FREDERICKSON GENERATION-SOUTH TACOMA FIBER SYSTEM		619,854		
2254	GARRISON MAINTENANCE HEADQUARTERS		158,654		
2255	GARRISON SUBSTATION		6,688,363		
2256	GIG HARBOR SUBSTATION		46,027		
2257	GOLDENDALE SUBSTATION(BPA)		11,710		
2258	GOODWIN PEAK RADIO STATION		390,889		
2259	GOSHEN SUBSTATION(UTAH POWER & LIGHT)	PAC-ID	280,965		
2260	GRAND COULEE 115 KV SWITCHYARD		492,953		
2261	GRAND COULEE 115KV-GRAND COULEE RS FIBER SEG		249,005		
2262	GRAND COULEE 230 KV SWITCHYARD		2,895,449		
2263	GRAND COULEE 500 KV SWITCHYARD		1,162,732		
2264	GRAND COULEE MAINTENANCE BUILDING		629,567		
2265	GRAND COULEE RADIO STATION		980,199		
2266	GRAND COULEE SUBSTATION		355,674		
2267	GRAND COULEE THIRD POWERHOUSE		152,907		
2268	GRAND COULEE-BELL NO 5		22,276		
2269	GRAND COULEE-CRESTON NO 1 (GRANT CO)		23,776		
2270	GRANDVIEW SUBSTATION		38,615		
2271	GRANITE MOUNTAIN RADIO STATION		920,613		
2272	GRAZZINI SUBSTATION		69,978		
2273	GREEN MOUNTAIN PASSIVE REPEATER SITE		18,681		
2274	GREENBERRY SUBSTATION		645		
2275	GRIZZLY MOUNTAIN RADIO STATION		1,629,190		
2276	GRIZZLY SUBSTATION		2,634,780		
2277	GROUSE PEAK RADIO STATION		375,503		
2278	HAAKENSON SUBSTATION		24,891		
2279	HALL RIDGE RADIO STATION		358,707		
2280	HAMPTON BUTTE RADIO STATION		291,134		
2281	HANFORD SUBSTATION		2,072,632		
2282	HANFORD-WAUTOMA NO 1		1,770		
2283	HAPPY CAMP RADIO STATION(PG&E)	PG&E	485,754		
2284	HAPPY CAMP RADIO STATION(TANC)	TANC	52,708		
2285	HAPPY VALLEY SUBSTATION		1,657		
2286	HARNEY SUBSTATION(BPA)		195,610		
2287	HARRISBURG SUBSTATION		383,612		
2288	HARVALUM SUBSTATION		311,256		
2289	HAT ROCK SUBSTATION		101,682		
2290	HATWAI SUBSTATION		2,629,708		
2291	HAUSER SUBSTATION(BPA)		9,889		
2292	HAUSER-NORTH BEND MAINTENANCE HQ FIBER SYSTEM		52,648		
2293	HAYDEN SUBSTATION		4,128		
2294	HAYSTACK BUTTE RADIO STATION		153,641		
2295	HEYBURN SUBSTATION		54,155		
2296	HILLTOP SUBSTATION		27,330		
2297	HOLCOMB RADIO STATION		270,971		
2298	HOLCOMB SUBSTATION		16,087		
2299	HOOD RIVER SUBSTATION		143,515		
2300	HOOD RIVER-THE DALLES NO 1		95,770		
2301	HORN BUTTE TAP TO TOWER ROAD-ALKALI NO 1		7,512		
2302	HORSE HEAVEN SUBSTATION		197,208		

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	A	B	C	D	E
2303	HOT SPRINGS SUBSTATION		2,231,245		
2304	HOT SPRINGS-GARRISON FIBER SYSTEM		9,027,301		
2305	HUNGRY HORSE POWERHOUSE		554,568		
2306	HUNGRY HORSE RADIO STATION		662,373		
2307	ICE HARBOR POWERHOUSE		388,526		
2308	IDAHO FALLS DISTRICT OFFICE AND MAINTENANCE HEADQUARTERS		4,447,679		
2309	IDAHO FALLS STORAGE YARD		380,162		
2310	INDIAN MOUNTAIN RADIO STATION		1,781,993		
2311	INTALCO SUBSTATION		1,098,173		
2312	IONA BUTTE RADIO STATION		191		
2313	JOHN CURTIS SUBSTATION		68,395		
2314	JOHN DAY POWERHOUSE		232,475		
2315	JOHN DAY SUBSTATION		3,761,643		
2316	JOHN DAY SUBSTATION - 230 YARD		971,128		
2317	JONES CANYON SUBSTATION		2,480,996		
2318	KAHLOTUS RADIO STATION		2,032,977		
2319	KALISPELL MAINTENANCE HEADQUARTERS		7,090,084		
2320	KALISPELL SUBSTATION(BPA)		2,412,918		
2321	KEELER MAINTENANCE HEADQUARTERS		834,819		
2322	KEELER SUBSTATION		2,602,734		
2323	KEELER-ALVEY FIBER SYSTEM		8,601,493		
2324	KEELER-COVINGTON FIBER SYSTEM		18,099,084		
2325	KEELER-FOREST GROVE NO 1		3,269		
2326	KENNEDY SUBSTATION		3,017		
2327	KENNEWICK RADIO STATION		2,227,984		
2328	KENNEWICK SUBSTATION(BENTON CO PUD)	BPUD	7,152		
2329	KENYON MOUNTAIN RADIO STATION		498,157		
2330	KITSAP SUBSTATION		1,459,900		
2331	KLONDIKE SCHOOLHOUSE SUBSTATION (IBERDOLA)	IBER	130,842		
2332	KNIGHT SUBSTATION		1,630,202		
2333	LA GRANDE SUBSTATION		287,402		
2334	LA PINE SUBSTATION		1,341,207		
2335	LAKE BAY SUBSTATION		119,816		
2336	LAKE GROVE SUBSTATION		56,584		
2337	LAKESIDE RADIO STATION		6,165		
2338	LANCASTER SUBSTATION(BPA)		717,863		
2339	LANE SUBSTATION		964,523		
2340	LEBANON SUBSTATION		164		
2341	LENEVE RADIO STATION		73,119		
2342	LEWISTON MAINTENANCE HEADQUARTERS		159,887		
2343	LEXINGTON SUBSTATION		719,178		
2344	LIBBY POWERHOUSE		470,495		
2345	LIBBY SUBSTATION(BPA)		2,089,734		
2346	LIBBY SUBSTATION(BPA/FLATHEADELEC)	BPA/FEC	841,552		
2347	LINES CREEK RADIO STATION		2,007,720		
2348	LITTLE GOOSE PH-LITTLE GOOSE NO 1		(1,777)		
2349	LITTLE GOOSE POWERHOUSE		768,496		
2350	LITTLE GOOSE SUBSTATION		4,728,238		
2351	LODHOLM SUBSTATION		132,402		
2352	LONGVIEW ANNEX I		2,885		
2353	LONGVIEW MAINTENANCE HEADQUARTERS		258,576		
2354	LONGVIEW SUBSTATION		2,583,648		
2355	LOOKOUT MOUNTAIN RADIO STATION		213,873		
2356	LOOKOUT POINT SUBSTATION		17,902		
2357	LOPEZ ISLAND SUBSTATION (BPA)		605,466		
2358	LOPEZ SUBSTATION (OPALCO)		18,020		
2359	LOST RIVER SUBSTATION		173,126		
2360	LOWELL BUTTE RADIO STATION		1,855,300		
2361	LOWER GRANITE POWERHOUSE		278,663		
2362	LOWER GRANITE SUBSTATION		4,000,443		
2363	LOWER GRANITE-HATWAI NO 1		5,898,174		-
2364	LOWER MONUMENTAL POWERHOUSE		422,980		

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	A	B	C	D	E
2365	LOWER MONUMENTAL SUBSTATION		2,542,725		
2366	LOWER MONUMENTAL-HANFORD NO 1		53,475		
2367	LOWER MONUMENTAL-MCNARY NO 1		7,729		
2368	LYN PUMPS PUMPING PLANT		4,267		
2369	LYNCH CREEK SUBSTATION		121,887		
2370	MACKS INN SUBSTATION		13,198		
2371	MALAGA RADIO STATION		1,034,126		
2372	MALIN MAINTENANCE HEADQUARTERS		5,161,589		
2373	MALIN PASSIVE REPEATER S SITE		13,184		
2374	MALIN SUBSTATION		3,152,537		
2375	MALONEY RIDGE RADIO STATION		1,015		
2376	MAPLE VALLEY SUBSTATION		3,198,006		
2377	MAPLE VALLEY-SNOHOMISH FIBER SYSTEM		732,999		
2378	MAPLETON SUBSTATION		60,489		
2379	MARION SUBSTATION		2,404,089		
2380	MARION-SANTIAM FIBER SYSTEM		1,039,832		
2381	MARTIN CREEK SUBSTATION		387,703		
2382	MARYS PEAK RADIO STATION		209,297		
2383	MAUPIN SUBSTATION		227,947		
2384	MAYFIELD POWERHOUSE		12,509		
2385	MAYFIELD SWITCHYARD		92,707		
2386	MCCULLOUGH SUBSTATION		59,703		
2387	MCLOUGHLIN SUBSTATION		1,454,927		
2388	MCMINNVILLE SUBSTATION		240,272		
2389	MCNARY MAINTENANCE HEADQUARTERS		9,172,199		
2390	MCNARY POWERHOUSE		733,384		
2391	MCNARY SUBSTATION		6,045,343		
2392	MCNARY-COYOTE SPRINGS NO 1		1,519,037		
2393	MCNARY-HORSE HEAVEN NO 1		70,204		
2394	MCNARY-JOHN DAY NO 2		5,493,099		
2395	MEAD SUBSTATION		4,712		
2396	MEGLER RADIO STATION		211,661		
2397	MERIDIAN SUBSTATION(PACIFICORP)	PAC	215,029		
2398	MERRITT RADIO STATION		1,277,506		
2399	METALINE RADIO STATION		2,507,946		
2400	MICA PEAK RADIO STATION		2,793,439		
2401	MIDWAY SUBSTATION(BPA)		2,794,911		
2402	MIDWAY-MOXEE NO 1		33,830		
2403	MILES CITY SUBSTATION		78,146		
2404	MILLER PEAK RADIO STATION		1,839,635		
2405	MILLER SUBSTATION(LAKEVIEW LIGHT & PWR)	LLP	65,777		
2406	MINIDOKA POWERHOUSE		67,168		
2407	MINIDOKA POWERHOUSE-MINIDOKA RADIO STATION FIBER SYSTEM		171,931		
2408	MINIDOKA RADIO STATION		104,319		
2409	MINT FARM SWITCHING STATION		26,482		
2410	MINTER SUBSTATION (PENINSULA)	PLC	100,179		
2411	MOBILE COMMUNICATIONS		409,133		
2412	MONROE SUBSTATION		2,106,295		
2413	MONROE-CUSTER NO 1		122,940		
2414	MORROW FLAT		1,155,049		
2415	MOXEE SUBSTATION		310,368		
2416	MT SI-TANNER NO 1		2,223,299		
2417	MT. EMILY RADIO STATION		65,833		
2418	MT. HEBBO RADIO STATION		261,985		
2419	MT. SPOKANE RADIO STATION(AVISTA)	AVA	1,153,982		
2420	MT. SPOKANE RADIO STATION(BPA)		195,437		
2421	MULLAN SUBSTATION (PGE)	PGE	118,058		
2422	MUNRO BPA SYSTEM CONTROL CENTER		49,315,766		
2423	MUNRO SCHEDULING CENTER		1,241,737		
2424	MURRAY SUBSTATION		148,657		
2425	NAPAVINE SUBSTATION		978,522		
2426	NARROWS SUBSTATION		75,170		
2427	NASELLE RIDGE RADIO STATION		874,948		
2428	NASELLE SUBSTATION		355,268		
2429	NASELLE-TARLETT NO 1		37,122		
2430	NEKITPE MAINTENANCE HEADQUARTERS		17,226,806		
2431	NEWPORT SUBSTATION(INLAND POWER)	IPL	431		
2432	NINE CANYON SUBSTATION (BENTON PUD)	BPUD	781,138		
2433	NORTH BEND MAINTENANCE HEADQUARTERS		2,487,737		
2434	NORTH BEND RADIO STATION		843,065		
2435	NORTH BONNEVILLE SUBSTATION		989,754		
2436	NORTH BONNEVILLE-MIDWAY NO 1		3,745		
2437	NORTH BONNEVILLE-TROUTDALE NO 2		281,830		
2438	NOTI RADIO STATION		495,586		

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	A	B	C	D	E
2439	NOXON CONSTRUCTION SUBSTATION		344,199		
2440	NOXON RADIO STATION		1,859,349		
2441	NOXON-KALISPELL FIBER SYSTEM		11,538,640		
2442	NOXON-LIBBY NO 1		354,839		
2443	NOXON-TAFT FIBER SYSTEM		5,718,682		
2444	ODELL BUTTE RADIO STATION		970,199		
2445	OHOP SUBSTATION		169,849		
2446	OLYMPIA MAINTENANCE HEADQUARTERS		6,562,207		
2447	OLYMPIA SUBSTATION		2,508,825		
2448	OLYMPIA-ABERDEEN FIBER SYSTEM		989,884		
2449	OLYMPIA-GRAND COULEE NO 1		898,339		
2450	OLYMPIA-KITSAP NO 3		66,850		
2451	OLYMPIA-PORT ANGELES FIBER SYSTEM		6,850,457		
2452	OLYMPIA-ST CLAIR NO 1		1,318,835		
2453	OREGON CITY SUBSTATION		78,174		
2454	OSTRANDER SUBSTATION		7,465,404		
2455	PACIFIC GAS AND ELECTRIC OPERATIONS CENTER		4,109		
2456	PALISADES POWERHOUSE		469,174		
2457	PASCO MAINTENANCE HEADQUARTERS		196,041		
2458	PATRICKS KNOB RADIO STATION		1,062,127		
2459	PAUL D. JOHNSON SUBSTATION		36,213		
2460	PAUL SUBSTATION		2,435,520		
2461	PBL ROSS EMERGENCY SCHEDULINGCENTER (ESC)		57,571		
2462	PEARL SUBSTATION		1,941,790		
2463	PEARL-TROUTDALE FIBER SYSTEM		4,093,153		
2464	PENDLETON SUBSTATION		17,757		
2465	PHALEN GULCH SUBSTATION (PSE)	PSE	101,248		
2466	PILOT BUTTE-LA PINE NO 1		124,765		
2467	PINE MOUNTAIN RADIO STATION		1,646,561		
2468	PLUM RADIO STATION		35,860		
2469	POMEROY RADIO STATION		2,650,010		
2470	POMEROY SUBSTATION(BPA)		4,839		
2471	PONDEROSA SUBSTATION(BPA)		1,269,026		
2472	PORT ANGELES SUBSTATION(BPA)		139,450		
2473	PORT TOWNSEND SUBSTATION		40,728		
2474	PORTLAND INTERNATIONAL AIRPORT HANGAR		1,160,192		
2475	POTHOLES SUBSTATION		572,396		
2476	PROSPECT HILL RADIO STATION		1,542,601		
2477	PURDY SUBSTATION		46,473		
2478	RAINIER RADIO STATION		868,685		
2479	RAINIER SUBSTATION		3,384		
2480	RATTLESNAKE SUBSTATION(MPC)	NWE	140,996		
2481	RAVER SUBSTATION		4,904,728		
2482	RAVER-ECHO LAKE FIBER SYSTEM		7,294,724		
2483	RAYMOND HILL RADIO STATION		491,694		
2484	RAYMOND RADIO STATION		238,453		
2485	RAYMOND SUBSTATION		21,198		
2486	RED MOUNTAIN SUB (BENTON REA)	BREA	391,394		
2487	RED MOUNTAIN SUBSTATION		595,206		
2488	REDMOND BPA HANGAR SITE		1,348,223		
2489	REDMOND MAINTENANCE HEADQUARTERS		3,092,670		
2490	REDMOND SUBSTATION(BPA)		1,785,281		
2491	REEDSPORT SUBSTATION (BPA)		189,066		
2492	REEDSPORT-FAIRVIEW NO 1		314,896		
2493	REEDSPORT-TAHKENITCH FIBER SYSTEM		193,800		
2494	RESTON SUBSTATION		354,038		
2495	RICHLAND SUBSTATION		190,068		
2496	RIVER ROAD GENERATION PLANT SUBSTATION		66,035		
2497	ROCK CREEK SUBSTATION		644,156		
2498	ROCK CREEK-JOHN DAY NO 1		1,994		
2499	ROCKY RADIO STATION [RET]		12,681		
2500	ROCKY REACH SWITCHYARD		85,702		
2501	ROCKY RIDGE RADIO STATION		1,869,469		
2502	ROGUE SUBSTATION		1,020,790		
2503	ROOSEVELT RADIO STATION		635,888		
2504	ROSS AMPERE BUILDING		8,571,937		
2505	ROSS COMPLEX		58,045,204		
2506	ROSS CONSTRUCTION AND SERVICES BUILDING		9,348,266		
2507	ROSS EHV LABORATORY		603,409		
2508	ROSS RADIO STATION		42,780		
2509	ROSS SUBSTATION		817,109		
2510	ROSS WAREHOUSE		5,737,739		
2511	ROSS-FRANKLIN FIBER SYSTEM		20,883,526		
2512	ROSS-MALIN FIBER SYSTEM		20,193,947		
2513	ROSS-RIVERGATE NO 1		98,087		
2514	ROUND VALLEY SUBSTATION		133,669		

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2515	ROUNDUP SUBSTATION		128,345		
2516	RUBY MOUNTAIN		2,509,711		
2517	SACAJAWEA SUBSTATION		1,070,686		
2518	SACAJAWEA TAP TO LOWER MONUMENTAL		8,292,111		
2519	SACHEEN SUBSTATION		642,015		
2520	SALEM PASSIVE REPEATER SITE		10,266		
2521	SALEM SUBSTATION (SALEM ELEC)		650,362		
2522	SAND DUNES SUBSTATION		58,891		
2523	SAND SPRING COMPENSATION STATION		1,548,273		
2524	SANDPOINT SUBSTATION(BPA)		22,550		
2525	SANTIAM SUBSTATION		1,936,932		
2526	SANTIAM-BETHEL NO 1		206,955		
2527	SATSOP SUBSTATION(BPA)		1,425,806		
2528	SAWTELL RADIO STATION		210,327		
2529	SCHULTZ MAINTENANCE HEADQUARTERS		2,704,238		
2530	SCHULTZ SUBSTATION		2,607,617		
2531	SCHULTZ-ECHO LAKE NO 1		1,237,435		
2532	SCHULTZ-WAUTOMA NO 1		18,029,963		
2533	SCOTT MOUNTAIN RADIO STATION		391,704		
2534	SEATTLE RADIO STATION		3,908		
2535	SHANIKO RADIO STATION		959,410		
2536	SHANO SUBSTATION		13,189		
2537	SHELTON SUBSTATION		1,897,061		
2538	SHELTON-FAIRMOUNT NO 1		48,822		
2539	SHELTON-KITSAP NO 2		399,843		
2540	SHELTON-SOUTH BREMERTON NO 1		399,843		
2541	SICKLER MAINTENANCE HEADQUARTERS		1,069,891		
2542	SICKLER SUBSTATION		2,975,054		
2543	SICKLER-SCHULTZ NO 1		311,816		
2544	SIFTON SUBSTATION		1,309,745		
2545	SILVER CREEK SUBSTATION		781,566		
2546	SILVERADO SUBSTATION (CLALLAM CO. PUD)	CMPUD	875		
2547	SKYROCKET RADIO STATION		849,895		
2548	SLATT SUBSTATION		4,911,354		
2549	SNOHOMISH CO. PUD DISPATCH CENTER		8,094		
2550	SNOHOMISH MAINTENANCE HEADQUARTERS		1,648,879		
2551	SNOHOMISH SUBSTATION		3,581,689		
2552	SNO-KING SUBSTATION		2,353,920		
2553	SNO-KING-MAPLE VALLEY NO. 2		9,690		
2554	SNO-KING-SNOHOMISH FIBER SYSTEM		2,949,281		
2555	SOUTH MOUNTAIN RADIO STATION		425,274		
2556	SOUTH TACOMA SUBSTATION		638,718		
2557	SPAR CANYON SUBSTATION		136,951		
2558	SPOKANE HANGAR		1,705,354		
2559	SPRING CREEK SUBSTATION		161,800		
2560	SPRING CREEK-WINE COUNTRY NO 1		50,782		
2561	SQUAK MOUNTAIN RADIO STATION		119,275		
2562	ST. JOHNS SUBSTATION		396,944		
2563	STAMPEDE PASS RADIO STATION		145,800		
2564	STEILACOOM SUBSTATION		97,941		
2565	SUBSTATION X		26,723		
2566	SUMMER LAKE HOUSING		143,243		
2567	SUMMER LAKE SUBSTATION		1,256,847		
2568	SUNNYSIDE RADIO STATION		756,057		
2569	SURPRISE LAKE SUBSTATION		80,458		
2570	SWAN LAKE POINT RADIO STATION		161,080		
2571	SWAN VALLEY PASSIVE REPEATER SITE		152,951		
2572	SWAN VALLEY RADIO STATION		433,293		
2573	SWAN VALLEY SUBSTATION		675,725		
2574	SWAN VALLEY-SWAN VALLEY RS FIBER SYSTEM		192,592		
2575	SWAN VALLEY-TETON NO 1		94,591		
2576	SWAN VALLEY-TETON NO 2		94,531		
2577	SYCAN COMPENSATION STATION		978,956		
2578	SYSTEM WIDE		46,583,362		
2579	TACOMA RADIO STATION		2,127,017		
2580	TACOMA SUBSTATION		1,498,614		
2581	TAFT PASSIVE REPEATER SITE		348,619		
2582	TAFT SUBSTATION		3,347,681		
2583	TAHKENITCH SUBSTATION		471,682		
2584	TARGHEE SUBSTATION		138,873		
2585	TEAKEAN BUTTE RADIO STATION		1,741,828		
2586	TEANAWAY RADIO STATION		295,581		
2587	TETON SUBSTATION		86,163		
2588	THE DALLES FISHWAY HYDRO PLANT		16,496		
2589	THE DALLES MAINTENANCE HEADQUARTERS		4,601,552		
2590	THE DALLES OPERATING DISTRICTHEADQUARTERS		26,595		

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2591	THE DALLES POWERHOUSE		282,402		
2592	THE DALLES SUBSTATION		249,278		
2593	THOMPSON FALLS RADIO STATION		471,935		
2594	TILLAMOOK SUBSTATION		410,438		
2595	TOLEDO SUBSTATION		106,157		
2596	TRENTWOOD SUBSTATION		402,591		
2597	TROUTDALE SUBSTATION(BPA)		3,600,834		
2598	TROUTDALE SUBSTATION(PACIFICORP)	PAC	151,373		
2599	TUCANNON RIVER SUBSTATION		1,094,662		
2600	TUNK MOUNTAIN RADIO STATION		1,377,722		
2601	TWO PARK PLACE		25,339		
2602	TYEE SUBSTATION		88,101		
2603	UNITY SUBSTATION(BPA)		266,885		
2604	USK SUBSTATION(BPA)		713,675		
2605	VALHALLA SUBSTATION		869,551		
2606	VANTAGE SUBSTATION		1,244,709		
2607	VAUGHN SUBSTATION		113,732		
2608	WALKER MOUNTAIN RADIO STATION		1,874,997		
2609	WALLA WALLA SUBSTATION(BPA)		764,283		
2610	WALLA WALLA SUBSTATION(PACIFICORP)	PAC	16,384		
2611	WALLA WALLA-WALLA WALLA (PACW) NO 1	PAC	163,462		
2612	WARDEN POLE METERING POINT		6,664		
2613	WARNER SUBSTATION		288,466		
2614	WASCO RADIO STATION		915,451		
2615	WATERVILLE RADIO STATION		829,959		
2616	WAUNA PAPER MILL		9,063		
2617	WAUTOMA SUBSTATION		3,107,723		
2618	WAUTOMA-COLUMBIA FIBER SYSTEM		5,084,288		
2619	WAUTOMA-OSTRANDER NO 1		19,979		
2620	WEISER SUBSTATION		7,809		
2621	WENDSON SUBSTATION		565,011		
2622	WENDSON-TAHKENITCH NO 2		514,470		
2623	WEST PORTLAND RADIO STATION		304,200		
2624	WESTSIDE SUBSTATION(BPA)		21,113		
2625	WHISKEY RIDGE RADIO STATION		18,065		
2626	WHITE BLUFFS SUBSTATION		930,858		
2627	WHITE CREEK SUBSTATION (KPUD)	KPUD	29,645		
2628	WILSON RIVER SUBSTATION		5,855		
2629	WINDY DEVIL RADIO STATION		82,197		
2630	WINE COUNTRY SUBSTATION	BPA/PAC	732,852		
2631	WOLF MOUNTAIN RADIO STATION		1,624,967		
2632	Total General Plant		<u>1,048,656,208</u>		

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

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Appendix B
BP-18 Rate Case Final 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	10,756	43% Network	
2	BUCKLEY-GRIZZLY NO 1	9,961,133	14,258	57% Southern Intertie	
3	BUCKLEY-GRIZZLY NO 1	17,475,672	25,013	100% Total	
4	BUCKLEY-MARION NO 1	21,425,547	15,403	50% Network	
5	BUCKLEY-MARION NO 1	21,425,547	15,403	50% Southern Intertie	
6	BUCKLEY-MARION NO 1	42,851,093	30,806	100% Total	
7	COUGAR-THURSTON NO 1	135,487	1,678	5% Generation Integration	
8	COUGAR-THURSTON NO 1	2,365,270	29,301	95% Network	
9	COUGAR-THURSTON NO 1	2,500,757	30,980	100% Total	
10	COYOTE SPRINGS-SLATT NO 1	2,352,112	7,802	88% Network	
11	COYOTE SPRINGS-SLATT NO 1	328,931	1,091	12% Southern Intertie	
12	COYOTE SPRINGS-SLATT NO 1	2,681,042	8,893	100% Total	
13	GREEN PETER-LEBANON NO 1	357,224	5,613	35% Generation Integration	
14	GREEN PETER-LEBANON NO 1	666,893	10,478	65% Network	
15	GREEN PETER-LEBANON NO 1	1,024,116	16,091	100% Total	
16	GRIZZLY-SUMMER LAKE NO 1	14,696,081	15,076	43% Network	
17	GRIZZLY-SUMMER LAKE NO 1	19,480,851	19,985	57% Southern Intertie	
18	GRIZZLY-SUMMER LAKE NO 1	34,176,932	35,061	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	308,025	5,363	19% Generation Integration	
23	HILLS CREEK-LOOKOUT POINT NO 1	1,286,760	22,405	81% Network	
24	HILLS CREEK-LOOKOUT POINT NO 1	1,594,785	27,768	100% Total	
25	ICE HARBOR-FRANKLIN NO 2	15,726	37	3% Generation Integration	
26	ICE HARBOR-FRANKLIN NO 2	554,825	1,301	97% Network	
27	ICE HARBOR-FRANKLIN NO 2	570,551	1,338	100% Total	
28	ICE HARBOR-FRANKLIN NO 3	133,963	97	9% Generation Integration	
29	ICE HARBOR-FRANKLIN NO 3	1,331,565	963	91% Network	
30	ICE HARBOR-FRANKLIN NO 3	1,465,528	1,060	100% Total	
31	MARION-ALVEY NO 1	4,456,110	14,597	50% Network	
32	MARION-ALVEY NO 1	4,456,110	14,597	50% Southern Intertie	
33	MARION-ALVEY NO 1	8,912,221	29,194	100% Total	
34	SLATT-JOHN DAY NO 1	4,797,158	24,214	93% Network	
35	SLATT-JOHN DAY NO 1	361,130	1,823	7% Southern Intertie	
36	SLATT-JOHN DAY NO 1	5,158,288	26,037	100% Total	

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	A	B	C	D	E
	Transmission Lines	Investment (\$)	O&M (\$)	Multi %	Segment
37	ACTON SUBSTATION	197,084	10,080	82% Network	
38	ACTON SUBSTATION	43,859	2,243	18% Utility Delivery	
39	ACTON SUBSTATION	240,943	12,323	100% Total	
40	ADDY SUBSTATION	10,469,442	89,534	90% Network	
41	ADDY SUBSTATION	1,220,190	10,435	10% Unsegmented	
42	ADDY SUBSTATION	11,689,632	99,969	100% Total	
43	ALBANY SUBSTATION	12,293,275	132,472	93% Network	
44	ALBANY SUBSTATION	893,523	9,629	7% Utility Delivery	
45	ALBANY SUBSTATION	13,186,798	142,101	100% Total	
46	ALBENI FALLS SUBSTATION	365,644	7,097	25% Generation Integration	
47	ALBENI FALLS SUBSTATION	1,096,932	21,292	75% Network	
48	ALBENI FALLS SUBSTATION	1,462,575	28,390	100% Total	
49	ALCOA SUBSTATION	9,360,682	265,087	95% Network	
50	ALCOA SUBSTATION	479,179	13,570	5% Unsegmented	
51	ALCOA SUBSTATION	9,839,861	278,657	100% Total	
52	ALVEY SUBSTATION	46,540,020	259,879	86% Network	
53	ALVEY SUBSTATION	7,684,642	42,911	14% Southern Intertie	
54	ALVEY SUBSTATION	54,224,662	302,790	100% Total	
55	ASHE SUBSTATION	3,800,762	40,496	8% Generation Integration	
56	ASHE SUBSTATION	41,584,323	443,070	92% Network	
57	ASHE SUBSTATION	45,385,085	483,566	100% Total	
58	BANDON SUBSTATION	4,259,802	62,363	86% Network	
59	BANDON SUBSTATION	696,934	10,203	14% Utility Delivery	
60	BANDON SUBSTATION	4,956,737	72,567	100% Total	
61	BIG EDDY SUBSTATION	4,153,611	36,302	5% Generation Integration	
62	BIG EDDY SUBSTATION	11,506,959	100,569	15% Network	
63	BIG EDDY SUBSTATION	63,394,842	554,059	80% Southern Intertie	
64	BIG EDDY SUBSTATION	79,055,412	690,929	100% Total	
65	BONNERS FERRY SUBSTATION	1,974,212	42,781	86% Network	
66	BONNERS FERRY SUBSTATION	332,623	7,208	14% Utility Delivery	
67	BONNERS FERRY SUBSTATION	2,306,835	49,989	100% Total	
68	BUCKLEY SUBSTATION	3,636,972	37,901	36% Network	
69	BUCKLEY SUBSTATION	6,512,717	67,869	64% Southern Intertie	
70	BUCKLEY SUBSTATION	10,149,688	105,770	100% Total	
71	BURBANK SUBSTATION	426,473	9,966	69% Network	
72	BURBANK SUBSTATION	114,552	2,677	18% Utility Delivery	
73	BURBANK SUBSTATION	78,480	1,834	13% Unsegmented	
74	BURBANK SUBSTATION	619,504	14,476	100% Total	
75	BURNT WOODS SUBSTATION	174,626	5,756	35% Network	
76	BURNT WOODS SUBSTATION	329,274	10,853	65% Utility Delivery	
77	BURNT WOODS SUBSTATION	503,900	16,608	100% Total	
78	CASCADE LOCKS SUBSTATION	383,749	17,212	61% Network	
79	CASCADE LOCKS SUBSTATION	243,602	10,926	39% Utility Delivery	
80	CASCADE LOCKS SUBSTATION	627,351	28,138	100% Total	

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BP-18 Rate Case Final Proposal Multi-Segmented Facilities Summary

A		B	C	D	E
Transmission Lines		Investment (\$)	O&M (\$)	Multi %	Segment
81	CHIEF JOSEPH SUBSTATION	8,407,942	176,007	23%	Generation Integration
82	CHIEF JOSEPH SUBSTATION	27,329,641	572,104	74%	Network
83	CHIEF JOSEPH SUBSTATION	983,516	20,588	3%	Southern Intertie
84	CHIEF JOSEPH SUBSTATION	36,721,099	768,700	100%	Total
85	DAVIS CREEK SUBSTATION	73,632	1,314	14%	Network
86	DAVIS CREEK SUBSTATION	471,589	8,417	86%	Utility Delivery
87	DAVIS CREEK SUBSTATION	545,221	9,731	100%	Total
88	DIXIE SUBSTATION	405,202	10,208	55%	Network
89	DIXIE SUBSTATION	337,515	8,502	45%	Utility Delivery
90	DIXIE SUBSTATION	742,717	18,710	100%	Total
91	DRAIN SUBSTATION	2,792,144	37,158	90%	Network
92	DRAIN SUBSTATION	307,669	4,094	10%	Utility Delivery
93	DRAIN SUBSTATION	3,099,813	41,252	100%	Total
94	DWORSHAK SUBSTATION	4,603,470	29,467	18%	Generation Integration
95	DWORSHAK SUBSTATION	20,750,912	132,829	82%	Network
96	DWORSHAK SUBSTATION	25,354,382	162,296	100%	Total
97	EAGLE LAKE SUBSTATION	203,425	7,930	45%	Network
98	EAGLE LAKE SUBSTATION	241,690	9,421	54%	Utility Delivery
99	EAGLE LAKE SUBSTATION	5,206	203	1%	Unsegmented
100	EAGLE LAKE SUBSTATION	450,321	17,554	100%	Total
101	FRANKLIN SUBSTATION	1,863,290	39,753	12%	Generation Integration
102	FRANKLIN SUBSTATION	14,139,957	301,671	88%	Network
103	FRANKLIN SUBSTATION	16,003,248	341,424	100%	Total
104	GARDINER SUBSTATION	608,586	24,302	66%	Network
105	GARDINER SUBSTATION	315,372	12,594	34%	Utility Delivery
106	GARDINER SUBSTATION	923,958	36,896	100%	Total
107	GARRISON SUBSTATION	60,768,218	438,905	69%	Network
108	GARRISON SUBSTATION	27,264,739	196,923	31%	Eastern Intertie
109	GARRISON SUBSTATION	88,032,958	635,828	100%	Total
110	GLADE SUBSTATION	192,511	4,128	35%	Network
111	GLADE SUBSTATION	319,684	6,855	58%	Utility Delivery
112	GLADE SUBSTATION	38,332	822	7%	Unsegmented
113	GLADE SUBSTATION	550,527	11,805	100%	Total
114	HARRISBURG SUBSTATION	4,893,940	19,122	96%	Network
115	HARRISBURG SUBSTATION	190,947	746	4%	Utility Delivery
116	HARRISBURG SUBSTATION	5,084,887	19,868	100%	Total

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

A		B	C	D	E
Transmission Lines		Investment (\$)	O&M (\$)	Multi %	Segment
117	HOOD RIVER SUBSTATION	1,069,598	37,101	81% Network	
118	HOOD RIVER SUBSTATION	251,183	8,713	19% Utility Delivery	
119	HOOD RIVER SUBSTATION	1,320,781	45,814	100% Total	
120	INTALCO SUBSTATION	12,018,982	261,590	64% Network	
121	INTALCO SUBSTATION	6,678,746	145,361	36% DSI Delivery	
122	INTALCO SUBSTATION	18,697,728	406,951	100% Total	
123	IONE SUBSTATION	796,188	26,193	86% Network	
124	IONE SUBSTATION	131,687	4,332	14% Utility Delivery	
125	IONE SUBSTATION	927,876	30,525	100% Total	
126	JOHN DAY SUBSTATION	14,395,312	135,891	29% Generation Integration	
127	JOHN DAY SUBSTATION	21,460,920	202,590	44% Network	
128	JOHN DAY SUBSTATION	13,352,244	126,045	27% Southern Intertie	
129	JOHN DAY SUBSTATION	49,208,476	464,526	100% Total	
130	LANGLOIS SUBSTATION	897,249	11,257	81% Network	
131	LANGLOIS SUBSTATION	203,884	2,558	19% Utility Delivery	
132	LANGLOIS SUBSTATION	1,101,133	13,815	100% Total	
133	LIBBY SUBSTATION(BPA)	2,526,733	58,772	27% Generation Integration	
134	LIBBY SUBSTATION(BPA)	6,897,702	160,441	73% Network	
135	LIBBY SUBSTATION(BPA)	9,424,436	219,214	100% Total	
136	LITTLE GOOSE SUBSTATION	16,845,808	33,054	20% Generation Integration	
137	LITTLE GOOSE SUBSTATION	67,383,230	132,217	80% Network	
138	LITTLE GOOSE SUBSTATION	84,229,038	165,271	100% Total	
139	LOOKOUT POINT SUBSTATION	1,108,549	5,855	25% Generation Integration	
140	LOOKOUT POINT SUBSTATION	3,325,646	17,565	75% Network	
141	LOOKOUT POINT SUBSTATION	4,434,195	23,420	100% Total	
142	LOWER GRANITE SUBSTATION	2,444,414	29,727	25% Generation Integration	
143	LOWER GRANITE SUBSTATION	7,333,241	89,180	75% Network	
144	LOWER GRANITE SUBSTATION	9,777,654	118,906	100% Total	
145	LOWER MONUMENTAL SUBSTATION	5,454,001	32,282	13% Generation Integration	
146	LOWER MONUMENTAL SUBSTATION	36,284,347	214,762	87% Network	
147	LOWER MONUMENTAL SUBSTATION	41,738,348	247,044	100% Total	
148	LYNCH CREEK SUBSTATION	726,128	10,298	57% Network	
149	LYNCH CREEK SUBSTATION	545,682	7,739	43% Utility Delivery	
150	LYNCH CREEK SUBSTATION	1,271,810	18,038	100% Total	
151	MAPLETON SUBSTATION	839,146	35,895	86% Network	
152	MAPLETON SUBSTATION	139,657	5,974	14% Utility Delivery	
153	MAPLETON SUBSTATION	978,802	41,869	100% Total	
154	MARION SUBSTATION	37,347,557	444,453	92% Network	
155	MARION SUBSTATION	3,403,697	40,506	8% Southern Intertie	
156	MARION SUBSTATION	40,751,254	484,959	100% Total	
157	MCNARY SUBSTATION	4,329,757	29,877	5% Generation Integration	
158	MCNARY SUBSTATION	83,627,473	577,066	95% Network	
159	MCNARY SUBSTATION	87,957,229	606,943	100% Total	

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A		B	C	D	E
Transmission Lines		Investment (\$)	O&M (\$)	Multi %	Segment
160	MINIDOKA SUBSTATION	139,342	3,808	36% Network	
161	MINIDOKA SUBSTATION	246,447	6,735	64% Utility Delivery	
162	MINIDOKA SUBSTATION	385,789	10,543	100% Total	
163	MONMOUTH SUBSTATION	721,145	16,993	56% Network	
164	MONMOUTH SUBSTATION	576,740	13,590	44% Utility Delivery	
165	MONMOUTH SUBSTATION	1,297,884	30,583	100% Total	
166	MOUNTAIN AVENUE SUBSTATION	1,649,488	16,167	78% Network	
167	MOUNTAIN AVENUE SUBSTATION	459,331	4,502	22% Utility Delivery	
168	MOUNTAIN AVENUE SUBSTATION	2,108,819	20,669	100% Total	
169	NECANICUM SUBSTATION	155,809	4,430	46% Network	
170	NECANICUM SUBSTATION	183,289	5,211	54% Utility Delivery	
171	NECANICUM SUBSTATION	339,098	9,641	100% Total	
172	NORTH BENCH SUBSTATION	512,217	4,845	97% Network	
173	NORTH BENCH SUBSTATION	15,179	144	3% Utility Delivery	
174	NORTH BENCH SUBSTATION	527,396	4,989	100% Total	
175	NORTH BONNEVILLE SUBSTATION	4,227,631	77,602	37% Generation Integration	
176	NORTH BONNEVILLE SUBSTATION	7,276,793	133,571	63% Network	
177	NORTH BONNEVILLE SUBSTATION	11,504,424	211,173	100% Total	
178	NORTH BUTTE SUBSTATION	121,781	4,661	65% Network	
179	NORTH BUTTE SUBSTATION	65,029	2,489	35% Utility Delivery	
180	NORTH BUTTE SUBSTATION	186,810	7,150	100% Total	
181	PARKDALE SUBSTATION	1,071,795	16,701	87% Network	
182	PARKDALE SUBSTATION	161,852	2,522	13% Utility Delivery	
183	PARKDALE SUBSTATION	1,233,647	19,223	100% Total	
184	PORT ORFORD SUBSTATION	296,514	14,238	63% Network	
185	PORT ORFORD SUBSTATION	174,549	8,382	37% Utility Delivery	
186	PORT ORFORD SUBSTATION	471,063	22,620	100% Total	
187	POTLATCH SUBSTATION(BPA)	1,003,683	18,976	89% Network	
188	POTLATCH SUBSTATION(BPA)	117,768	2,227	11% Utility Delivery	
189	POTLATCH SUBSTATION(BPA)	1,121,451	21,202	100% Total	
190	REEDSPORT SUBSTATION (BPA)	3,417,464	62,256	94% Network	
191	REEDSPORT SUBSTATION (BPA)	203,610	3,709	6% Utility Delivery	
192	REEDSPORT SUBSTATION (BPA)	3,621,073	65,965	100% Total	
193	RINGOLD SUBSTATION	383,145	11,092	72% Network	
194	RINGOLD SUBSTATION	116,044	3,359	22% Utility Delivery	
195	RINGOLD SUBSTATION	31,143	902	6% Unsegmented	
196	RINGOLD SUBSTATION	530,331	15,353	100% Total	
197	SACAJAWEA SUBSTATION	213,563	505	1% Generation Integration	
198	SACAJAWEA SUBSTATION	24,464,557	57,805	99% Network	
199	SACAJAWEA SUBSTATION	24,678,120	58,310	100% Total	
200	SANDPOINT SUBSTATION(BPA)	1,106,305	26,475	85% Network	
201	SANDPOINT SUBSTATION(BPA)	198,146	4,742	15% Utility Delivery	
202	SANDPOINT SUBSTATION(BPA)	1,304,451	31,216	100% Total	

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A		B	C	D	E
Transmission Lines		Investment (\$)	O&M (\$)	Multi %	Segment
203	SANTIAM SUBSTATION	1,234,040	17,539	5%	Generation Integration
204	SANTIAM SUBSTATION	23,154,774	329,093	95%	Network
205	SANTIAM SUBSTATION	24,388,814	346,632	100%	Total
206	SCOOTENEY SUBSTATION	1,346,338	23,175	91%	Network
207	SCOOTENEY SUBSTATION	136,876	2,356	9%	Utility Delivery
208	SCOOTENEY SUBSTATION	1,483,214	25,531	100%	Total
209	SELLE SUBSTATION	233,060	3,832	41%	Network
210	SELLE SUBSTATION	332,559	5,467	59%	Utility Delivery
211	SELLE SUBSTATION	565,619	9,299	100%	Total
212	SLATT SUBSTATION	68,796,242	247,577	94%	Network
213	SLATT SUBSTATION	4,071,123	14,651	6%	Southern Intertie
214	SLATT SUBSTATION	72,867,365	262,228	100%	Total
215	STATELINE SUBSTATION	35,972	5,309	25%	Network
216	STATELINE SUBSTATION	105,755	15,608	75%	Utility Delivery
217	STATELINE SUBSTATION	141,727	20,916	100%	Total
218	STEILACOOM SUBSTATION	754,305	8,247	69%	Network
219	STEILACOOM SUBSTATION	346,790	3,791	31%	Utility Delivery
220	STEILACOOM SUBSTATION	1,101,095	12,038	100%	Total
221	SUMMER LAKE SUBSTATION	2,682,773	37,380	43%	Network
222	SUMMER LAKE SUBSTATION	3,556,234	49,551	57%	Southern Intertie
223	SUMMER LAKE SUBSTATION	6,239,007	86,931	100%	Total
224	SURPRISE LAKE SUBSTATION	604,747	14,035	80%	Network
225	SURPRISE LAKE SUBSTATION	155,330	3,605	20%	Utility Delivery
226	SURPRISE LAKE SUBSTATION	760,077	17,639	100%	Total
227	SWAN VALLEY SUBSTATION	6,903,911	63,521	98%	Network
228	SWAN VALLEY SUBSTATION	165,344	1,521	2%	Utility Delivery
229	SWAN VALLEY SUBSTATION	7,069,255	65,042	100%	Total
230	TACOMA SUBSTATION	19,786,021	353,622	96%	Network
231	TACOMA SUBSTATION	761,802	13,615	4%	Unsegmented
232	TACOMA SUBSTATION	20,547,824	367,238	100%	Total
233	TRENTWOOD SUBSTATION	5,693,994	82,944	81%	Network
234	TRENTWOOD SUBSTATION	1,295,709	18,874	18%	DSI Delivery
235	TRENTWOOD SUBSTATION	14,939	218	0%	Unsegmented
236	TRENTWOOD SUBSTATION	7,004,643	102,036	100%	Total
237	TROY SUBSTATION	684,801	21,085	63%	Network
238	TROY SUBSTATION	400,982	12,346	37%	Utility Delivery
239	TROY SUBSTATION	1,085,783	33,432	100%	Total
240	TUMBLE CREEK SUBSTATION	809,064	10,053	83%	Network
241	TUMBLE CREEK SUBSTATION	170,214	2,115	17%	Utility Delivery
242	TUMBLE CREEK SUBSTATION	979,279	12,168	100%	Total
243	TWO MILE ROAD SUBSTATION	1,074,631	13,426	71%	Network
244	TWO MILE ROAD SUBSTATION	443,047	5,535	29%	Utility Delivery
245	TWO MILE ROAD SUBSTATION	1,517,678	18,961	100%	Total

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A		B	C	D	E
Transmission Lines		Investment (\$)	O&M (\$)	Multi %	Segment
246	VALHALLA SUBSTATION	3,785,887	116,414	92% Network	
247	VALHALLA SUBSTATION	317,777	9,771	8% Unsegmented	
248	VALHALLA SUBSTATION	4,103,664	126,185	100% Total	
249	WALTON SUBSTATION	213,497	10,320	60% Network	
250	WALTON SUBSTATION	141,844	6,856	40% Utility Delivery	
251	WALTON SUBSTATION	355,341	17,176	100% Total	
252	WINTHROP SUBSTATION	1,349,024	15,674	88% Network	
253	WINTHROP SUBSTATION	180,015	2,092	12% Utility Delivery	
254	WINTHROP SUBSTATION	1,529,039	17,765	100% Total	
255	YAAK SUBSTATION	392,249	2,320	19% Network	
256	YAAK SUBSTATION	1,623,661	9,605	81% Utility Delivery	
257	YAAK SUBSTATION	2,015,909	11,925	100% Total	

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