

BP-22 Rate Proceeding

Final Proposal

# Transmission Segmentation Study and Documentation

BP-22-FS-BPA-07

July 2021





# TRANSMISSION SEGMENTATION STUDY AND DOCUMENTATION

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**APPENDICES**

Appendix A: BP-22 Rate Case Final Proposal Segmentation Detail

Appendix B: BP-22 Rate Case Final Proposal Multi-Segmented Facilities Summary

## COMMONLY USED ACRONYMS AND SHORT FORMS

AAC	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
AGC	automatic generation control
aMW	average megawatt(s)
ANR	Accumulated Net Revenues
ASC	Average System Cost
BAA	Balancing Authority Area
BiOp	Biological Opinion
BPA	Bonneville Power Administration
BPAP	Bonneville Power Administration Power
BPAT	Bonneville Power Administration Transmission
Bps	basis points
Btu	British thermal unit
CAISO	California Independent System Operator
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 (see also “NPCC”)
COVID-19	coronavirus disease 2019
CP	Coincidental Peak
CRAC	Cost Recovery Adjustment Clause
CRFM	Columbia River Fish Mitigation
CSP	Customer System Peak
CT	combustion turbine
CWIP	Construction Work in Progress
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
EESC	EIM Entity Scheduling Coordinator
EIM	Energy imbalance market
EIS	Environmental Impact Statement
ELMP	Extended Locational Marginal Pricing
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
FERC	Federal Energy Regulatory Commission
FMM-IIE	Fifteen Minute Market – Instructed Imbalance Energy
FOIA	Freedom of Information Act
FORS	Forced Outage Reserve Service
FPS	Firm Power and Surplus Products and Services
FPT	Formula Power Transmission
FRP	Financial Reserves Policy
F&W	Fish & Wildlife
FY	fiscal year (October through September)
G&A	general and administrative (costs)
GARD	Generation and Reserves Dispatch (computer model)
GDP	Gross Domestic Product
GI	generation imbalance
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
IIE	Instructed Imbalance Energy
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
KSI	key strategic initiative
kW	kilowatt
kWh	kilowatthour
LAP	Load Aggregation Point
LDD	Low Density Discount
LGIA	Large Generator Interconnection Agreement
LLH	Light Load Hour(s)
LMP	Locational Marginal Price
LPP	Large Project Program
LT	long term
LTF	Long-term Firm
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	<b>National Marine Fisheries Service (NMFS) Federal Columbia River Power System (FCRPS) Biological Opinion (BiOp)</b>
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)
NWPA	Northwest Power Act/Pacific Northwest Electric Power Planning and Conservation Act
NP-15	North of Path 15
NPCC	Northwest Power and Conservation Council
NPV	net present value
NR	New Resource Firm Power
NRFS	NR Resource Flattening Service

NRU	Northwest Requirements Utilities
NT	Network Integration
NTSA	Non-Treaty Storage Agreement
NUG	non-utility generation
NWPP	Northwest Power Pool
OATT	Open Access Transmission Tariff
O&M	operations and maintenance
OATI	Open Access Technology International, Inc.
ODE	Over Delivery Event
OS	Oversupply
OY	operating year (August through July)
PDCI	Pacific DC Intertie
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
PPC	Public Power Council
PRSC	Participating Resource Scheduling Coordinator
PS	Power Services
PSC	power sales contract
PSW	Pacific Southwest
PTP	Point-to-Point
PUD	public or people's utility district
RAM	Rate Analysis Model (computer model)
RAS	Remedial Action Scheme
RCD	Regional Cooperation Debt
RD	Regional Dialogue
RDC	Reserves Distribution Clause
REC	Renewable Energy Certificate
Reclamation	U.S. Bureau of Reclamation
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
RTD-IIE	Real-Time Dispatch – Instructed Imbalance Energy
RTIEO	Real-Time Imbalance Energy Offset
SCD	Scheduling, System Control, and Dispatch Service
SCADA	Supervisory Control and Data Acquisition
SCS	Secondary Crediting Service
SDD	Short Distance Discount
SILS	Southeast Idaho Load Service
Slice	Slice of the System (product)
SMCR	Settlements, Metering, and Client Relations
SP-15	South of Path 15
T1SFCO	Tier 1 System Firm Critical Output
TC	Tariff Terms and Conditions
TCMS	Transmission Curtailment Management Service
TDG	Total Dissolved Gas
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
UDE	Under Delivery Event
UFE	unaccounted for energy
UFT	Use of Facilities Transmission
UIC	Unauthorized Increase Charge
UIE	Uninstructed Imbalance Energy
ULS	Unanticipated Load Service
USACE	U.S. Army Corps of Engineers
USFWS	U.S. Fish & Wildlife Service
VER	Variable Energy Resource
VERBS	Variable Energy Resource 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 ratesetting 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-22-FS-BPA-09A, Tables 2.1 to 2.9. The segmented transmission revenue requirement is then used to set transmission rates. *See* Transmission Rates Study and Documentation, BP-22-FS-BPA-08. 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.

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## 2. SEGMENT DEFINITIONS

For the FY 2022–2023 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.

### 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 is consistent with the treatment of this equipment since the Administrator’s decision in the BP-16

1 Administrator's Final Record of Decision. *See* Administrator's Final Record of  
2 Decision, BP-16-A-02, at 67.

## 3 4 **2.2 Network Segment**

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

15  
16 This segment includes:

- 17 • Transmission lines, substation equipment, and associated station general that  
18 support the transmission of power from Federal and non-Federal generation  
19 sources and points of delivery to customers' systems and to other BPA segments;
- 20 • Transmission lines, substation equipment, and associated station general that  
21 interconnect customer facilities with BPA's facilities and have been determined to  
22 be BPA's responsibility to build and own based on the Facility Ownership and Cost  
23 Assignment Guidelines, and are not included in any of the other segments; and
- 24 • Facilities that have been "grandfathered" in the Network segment consistent with  
25 the decision in the BP-16 proceeding, even if the facilities would be directly assigned

1 under the Facility Ownership and Cost Assignment Guidelines if constructed today.  
2 *Id.* at 69-76.

### 3 4 **2.3 Southern Intertie Segment**

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

11  
12 This segment includes:

- 13 • The 1,000-kV direct-current (DC) line from the Celilo converter station near  
14 The Dalles, Oregon, to the Nevada-Oregon border, including the Celilo converter  
15 station equipment and the terminal equipment in the Big Eddy substation  
16 supporting the DC line, along with associated station general;
- 17 • The multiple 500-kV alternating-current (AC) lines from north-central Oregon to the  
18 California-Oregon border and all associated terminals and supporting station  
19 general, including BPA's share of the Alvey-Dixonville-Meridian line (jointly owned  
20 with PacifiCorp), except for (1) one of the 500-kV AC lines from Grizzly substation to  
21 Malin substation in central Oregon and associated terminals (owned by Portland  
22 General Electric Company), and (2) the Captain Jack-Malin #2 line, Summer Lake-  
23 Malin line, and Meridian-Captain Jack line, and associated terminals (owned by  
24 PacifiCorp); and
- 25 • Certain other facilities determined to support the facilities specified above,  
26 including one of the 500-kV AC lines between John Day and Big Eddy substations, a

1 500-kV AC line between Coyote Springs and Slatt substations, a 500-kV AC line  
2 between Slatt and John Day substations, and the dynamic braking resistor at Chief  
3 Joseph substation.  
4

#### 5 **2.4 Eastern Intertie Segment**

6 The Eastern Intertie segment facilities provide a transmission path from Montana  
7 (primarily for the Colstrip generating project) to the Network segment. These facilities  
8 were built pursuant to the Montana Intertie Agreement, which provides that the costs  
9 associated with building and maintaining the facilities will be recovered from the parties to  
10 the agreement through the Townsend-Garrison Transmission rate. This segment includes  
11 the double-circuit 500-kV line between Townsend and Garrison, Montana, and associated  
12 terminal equipment and supporting station general at Garrison substation. The costs  
13 associated with the Eastern Intertie are recovered through the Townsend-Garrison  
14 Transmission rate, the Montana Intertie rate, and the Eastern Intertie rate.  
15

#### 16 **2.5 Utility Delivery Segment**

17 The Utility Delivery segment consists of low-voltage transmission lines and substation  
18 equipment associated with supplying power directly to utility distribution systems. Utility  
19 Delivery equipment is distinguished from Network equipment in that Utility Delivery  
20 transforms power down to the customer's distribution voltage, whereas Network  
21 equipment transmits power at voltages that the customer must step down (reduce) before  
22 the power enters the customer's distribution system. Utility Delivery equipment provides  
23 service to only a small subset of BPA's transmission customers. This equipment does not  
24 provide reliability benefits to the Network segment. BPA recovers the costs of this  
25 equipment through the Utility Delivery rate.  
26



1 This segment includes:

- 2 • Step-down transformers and associated low-side switching and protection
- 3 equipment; and
- 4 • Two short low-voltage lines, one from BPA's Albany substation to DOE's National
- 5 Energy Technology Laboratory, and one from BPA's Hood River substation to Hood
- 6 River Electric Cooperative.

## 7

### 8 **2.6 Direct Service Industry Delivery Segment**

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

### 16

### 17 **2.7 Ancillary Services Segment**

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

1 This segment includes:

- 2 • monitoring and supervisory control equipment;
- 3 • associated communications equipment; and
- 4 • control center hardware and software.

5

### 3. ASSIGNING FACILITIES TO THE SEGMENTS

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

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

The following resources may be consulted to segment the facilities:

- One-line diagrams identify the location, interconnectivity, and ownership of transmission lines, substations, circuit breakers, and transformers.
- Installation and maintenance records identify major equipment (*e.g.*, transformers, circuit breakers, and reactive equipment) installed or maintained by BPA. BPA uses these records to identify and associate specific equipment in the plant accounting records with the equipment identified on the one-line diagrams. This association is particularly useful in allocating investment in facilities that support more than one function and whose costs are allocated to more than one segment. Multi-segmented facilities that support more than one function are described in more detail in Section 3.1.

- Agreements, such as those relating to the construction and operation of the Southern and Eastern Interties, which specify how the costs for certain facilities will be allocated.

### **3.1 Multi-Segmented Facilities**

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

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

1. The investment in major equipment in the substation (*e.g.*, circuit breakers, transformers, and reactive devices, all of which are tracked separately in the investment records) is grouped by type and voltage level. For example, a substation may have 230-kV equipment that supports the Network and Generation Integration segments and reactive devices that support only the Network. The investment in this substation would be separated into two groups, a 230-kV shared group that is

1 segmented to both Generation Integration and the Network (as described below)  
2 and a reactive group that is segmented entirely to the Network.

- 3 2. The investment in common equipment for the substation and station general, such  
4 as buildings and fences, is allocated to each group based on the investment in major  
5 equipment. In the example above, if the 230-kV shared group is assigned 80 percent  
6 of the investment in major equipment, the 230-kV group is also assigned 80 percent  
7 of the investment in common equipment and station general.
- 8 3. The total investment in each shared group is then allocated to the segments that the  
9 group supports based on the number of terminals in each segment. A terminal  
10 connects a transmission line, power transformer, or reactive device to substation  
11 bus work so that power can flow. A terminal typically consists of a power circuit  
12 breaker (or, alternatively, a circuit switcher in some stations), disconnect switches,  
13 and protective relaying. All terminals rely on the equipment in the shared group to  
14 transmit power between the lines, transformers, and reactive devices to which they  
15 are connected at the substation. Therefore, the cost of the shared group is assumed  
16 to be shared equally among the terminals. In the above example, if the 230-kV  
17 shared group supports four Network terminals and two Generation Integration  
18 terminals, two-thirds (four of six terminals) of the 230-kV shared group investment  
19 is allocated to the Network segment, and one-third (two of six) is allocated to the  
20 Generation Integration segment.

21  
22 As described further in Section 4, the percentage of the total investment in each segment is  
23 used to allocate the historical O&M expenses for each facility to the different segments.  
24 Appendix A identifies the percentage of each facility allocated to each segment and the  
25 associated investment and historical O&M expenses assigned to the segment.

1 **3.2 Facilities Not Assigned to a Segment**

2 Some transmission equipment and facilities are not assigned to a particular segment  
3 because they cannot be identified with a particular type of service. For example,  
4 emergency equipment spares support most or all the segments and therefore are not  
5 assigned to a particular segment. The transmission plant investment associated with these  
6 facilities is allocated to all of the segments on a pro rata basis. For example, if 80 percent of  
7 the directly assigned investment in station equipment is segmented to the Network  
8 segment, then 80 percent of the investment in station equipment that is not directly  
9 assigned is also segmented to the Network. Table 2, at lines 4 and 18, shows the allocation  
10 of the investment in these facilities.

11

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

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

10  
11   The segmented investment through September 30, 2020, is shown in Table 2. The  
12   segmented expected future plant investment is shown in Table 3.1. The historical O&M by  
13   segment for FY 2014 to FY 2020 is shown in Table 4.1.

14  
15   **4.1 Gross Investment in Existing Facilities**

16   BPA's gross investment is shown in Table 1 and illustrated in the associated chart. The  
17   investment related to (1) transmission plant, including leased assets, emergency stock, and  
18   intangibles, (2) depreciable land, and (3) general plant is identified and segmented in the  
19   segmentation process. These investments are described in more detail below. The gross  
20   investment is identified from BPA's investment records as of FY 2020, which is the most  
21   recently completed fiscal year at the time that this Study is being prepared.

22  
23   **4.1.1 Transmission Plant Investment**

24   Transmission plant investment refers to investment in lines and substations, as defined in  
25   FERC accounts 352 through 359, 390, and 391, and investment in some leased facilities  
26   (which are not classified by FERC account) (see Table 2). The total transmission plant

1 investment, including leased facilities but excluding Projects Funded in Advance (PFIA), is  
2 \$8.7 billion as of the end of FY 2020 (Table 1, line 24). PFIA are projects funded by the  
3 customers taking service over the new facilities. The costs of the new facilities are assigned  
4 to and funded by customers consistent with the Facility Ownership and Cost Assignment  
5 Guidelines. Other than PFIA, transmission plant investment associated with specific  
6 facilities is allocated to segments based on the assignment of facilities to the segments as  
7 described in Section 3.

#### 9 **4.1.2 Intangible Investment**

10 Intangible investment is BPA's share of financial participation in facilities owned by other  
11 entities (BPA's capacity rights). In each case, the investment supports either the Network  
12 or the Southern Intertie segment. For the FY 2022–2023 rate period, the investment is  
13 segmented to one of these two segments based on the segment each facility supports. As  
14 shown in Table 2, line 29, BPA has approximately \$9.6 million of intangible investment.

#### 16 **4.1.3 Land Investment**

17 Land owned by BPA is not depreciated, and therefore no amortized costs for land need to  
18 be segmented. However, BPA does have leased land that is depreciable (approximately  
19 \$50 million, Table 2, line 37) and which therefore must be segmented. Most of the leased  
20 land (approximately \$48.9 million, Table 2, line 34, columns H and I) is used for rights-of-  
21 way for transmission lines and is segmented according to the type of service provided by  
22 the associated transmission lines. For example, leased land that supports a transmission  
23 line segmented to the Network segment is allocated to that segment.

24  
25 BPA also has depreciable leased land (\$0.96 million, Table 2, line 35) associated with radio  
26 stations that is not assigned to a specific segment because communication facilities, such as



1 radio stations, generally support all the segments. Therefore, the investment associated  
2 with this leased land is prorated to the segments based on the total of the line and station  
3 investment allocated to each segment.

#### 4 5 **4.1.4 Ancillary Service Investment**

6 BPA has approximately \$208.5 million in ancillary service investment. Table 2, line 41.  
7 This investment includes equipment designated as control equipment (\$85.8 million,  
8 Table 2, line 43), hardware and software at the control centers supporting scheduling and  
9 dispatch (\$51.8 million, Table 2, line 46), and communications equipment supporting  
10 Supervisory Control and Data Acquisition (SCADA) (\$70.8 million, Table 2, line 52). This  
11 investment is all allocated to the Ancillary Services segment.

#### 12 13 **4.1.5 General Plant Investment**

14 General plant investment is associated with equipment of a general nature (FERC  
15 accounts 390 through 398, with some amounts identified in FERC accounts 352, 353,  
16 and 356) (see Table 2). BPA's telecommunications system facilities (such as radio stations),  
17 maintenance buildings, and vehicles are examples of general plant investment. Through  
18 FY 2020, BPA's general plant investment (less PFIA) was \$1.23 billion. Table 2, line 41.  
19 General plant investment is not allocated to the segments in this Study. In the  
20 Transmission Revenue Requirement Study, the depreciation cost associated with this  
21 investment is treated as an overhead expense and allocated pro rata to the segments based  
22 on the segmented O&M expenses. See Transmission Revenue Requirement Study  
23 Documentation, BP-22-FS-BPA-09A, § 2.2.

1 **4.2 Retirement of Existing Facilities and Installation of New Facilities**

2 As this Study is being prepared, BPA has the actual investment figure for facilities in place  
3 as of the end of FY 2020. To estimate the investment that will be in place during the  
4 FY 2022-2023 rate period, this figure is adjusted to remove investment in facilities  
5 expected to be retired or sold, and to include the forecast of facilities expected to be  
6 installed after the end of FY 2020 and before the end of FY 2023. Table 3.1 summarizes the  
7 expected station and line investment by segment for fiscal years 2021 through 2023.

8  
9 New facility investment is identified in BPA's Integrated Program Review (IPR) process. No  
10 specific facilities are identified for retirement in this study. However, as discussed in the  
11 Transmission Revenue Requirement Study, the expected investment in new station  
12 facilities has been reduced based on historical ratios of retired equipment to new  
13 replacement equipment. Transmission Revenue Requirement Study Documentation,  
14 BP-22-FS-BPA-09A, § 9.2.

15  
16 **4.3 Operations and Maintenance Expense**

17 This study includes historical O&M expenses from plant record data for the last seven fiscal  
18 years (2014 through 2020), O&M expenses are categorized into three groups  
19 (*see* Table 4.2):

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

23  
24 The O&M expenses allocated to lines and substations include substation operations,  
25 various transmission maintenance programs, technical training, vegetation management,  
26 and environmental expenses, such as pollution controls. These expenses are segmented

1 according to the facilities supported (*see* Table 4.3). The seven-year historical line and  
2 substation O&M expenses average approximately \$186.6 million annually (Table 4.1,  
3 line 16). The segmented historical costs are used to allocate the projected future O&M  
4 costs. *See* Transmission Revenue Requirement Study Documentation, BP-22-FS-BPA-09A,  
5 § 2.2.

6  
7 Scheduling costs and system operations costs are for staff and technology associated with  
8 reserving, scheduling, monitoring, controlling, and dispatching the transmission system.  
9 The seven-year average historical scheduling and dispatch cost is \$64.5 million (Table 4.1,  
10 line 18). Rate period forecast scheduling and system operations costs are directly assigned  
11 to the Ancillary Services segment and recovered through the SCD service rate. *See*  
12 Transmission Revenue Requirement Study Documentation, BP-22-FS-BPA-09A, § 2.2.

13  
14 Marketing and business support costs are associated with general business functions,  
15 including sales and contract management, billing, business strategy, legal support, aircraft  
16 services, and general administration and executive services. The seven-year historical  
17 marketing and support costs, otherwise referred to as overhead costs, average  
18 \$58.6 million (Table 4.1, line 18). Rate period forecast costs are allocated pro rata on a net  
19 plant basis based on the directly assigned investment. *See* Transmission Revenue  
20 Requirement Study Documentation, BP-22-FS-BPA-09A, § 2.2.

#### 21 22 **4.3.1 Historical Line and Station O&M Assignment to Segments**

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

- 24 1. Historical O&M expenses are identified by fiscal year and category, as shown  
25 in Table 4.2. Categories are expense programs within BPA's transmission

1 business line, such as substation operations and transmission line  
2 maintenance.

3 2. Approximately one-third of the historical O&M expenses are associated with  
4 a specific line, substation, or metering location (*i.e.*, facility type). These  
5 expenses, identified as direct O&M expenses, are allocated to segments in the  
6 same proportion as was the investment in the specific facility (*see* Table 4.3).  
7 Thus, if certain O&M expenses are associated with a given substation, and  
8 60 percent of the substation investment was allocated to the Network,  
9 60 percent of those O&M expenses are allocated to the Network. If the  
10 investment in a substation is allocated entirely to one segment, then the O&M  
11 is also allocated entirely to that segment. The allocation of O&M for each  
12 facility is identified in Appendix A. The direct O&M expenses are then  
13 aggregated by category and facility type (*see id.*).

14 3. Non-direct O&M expenses (that is, expenses not identified with a specific  
15 facility) are aggregated by category and allocated to the facility types  
16 (transmission lines, substations, or metering locations) in the same  
17 proportions as the direct O&M expenses. For example, if 80 percent of direct  
18 O&M expenses for substation maintenance are assigned to substations, then  
19 80 percent of non-direct O&M expenses for substation maintenance are  
20 assigned to substations. Technical training and environmental analysis have  
21 no direct O&M expense and are allocated to facility type in the same  
22 proportions as the total direct O&M expenses for each facility type. Thus, for  
23 example, since about 28 percent of direct expenses are allocated to  
24 transmission lines, 28 percent of technical training expenses are allocated to  
25 transmission lines (*see id.*). Transmission line maintenance, vegetation

1 management, and right-of-way maintenance non-direct O&M expenses are  
2 allocated entirely to transmission lines.

- 3 4. The sum of the non-direct O&M expense for each facility type is shown in  
4 Table 4.3, line 15. These amounts are allocated to the segments in the same  
5 proportion as the direct expenses for each facility type. For example,  
6 90.7 percent of direct O&M expenses for transmission lines were allocated to  
7 the Network. Therefore, 90.7 percent of non-direct O&M expenses for  
8 transmission lines are allocated to the Network ( See Table 4.1, lines 11  
9 and 15).

#### 10 11 **4.4 U.S. Army Corps of Engineers and U.S. Bureau of Reclamation Facilities**

12 The investment and annual O&M expenses for the U.S. Army Corps of Engineers (Corps)  
13 and U.S. Bureau of Reclamation (Reclamation) facilities that function as part of BPA's  
14 transmission system are included in the transmission revenue requirement, even though  
15 BPA does not own these facilities. The segmentation of these expenses is based on an  
16 analysis of the Corps and Reclamation facilities summarized in Table 5. As shown,  
17 96.83 percent of the expenses are segmented to the Network and 3.17 percent of the  
18 expenses are segmented to Utility Delivery.

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## **TABLES**

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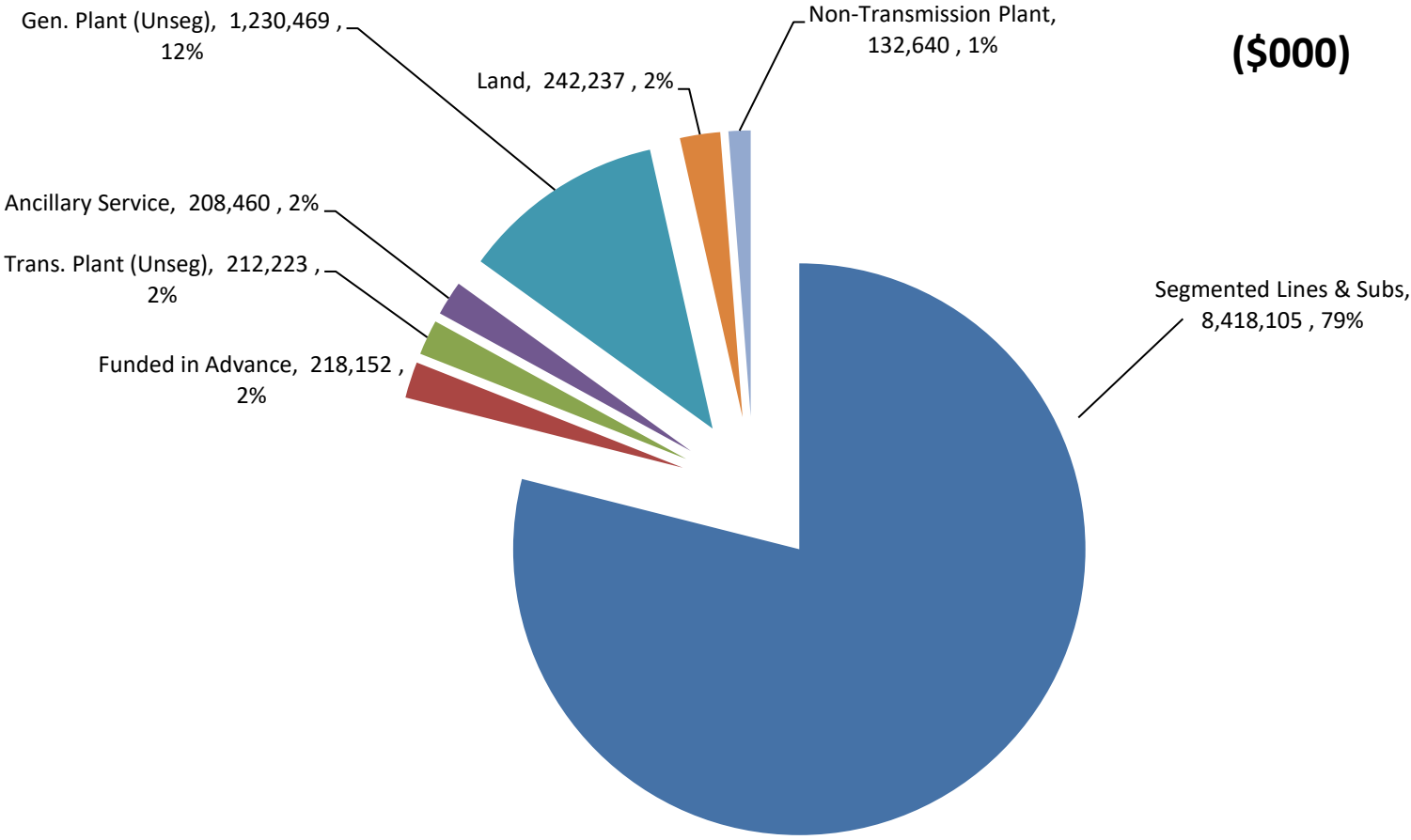




# BPA Plant Investment as of September 30, 2020

**Total: \$10,662,286**

**(\$000)**



**Table 2**  
**BPA Segmented Investment, through Sept. 30, 2020**  
**(\$000)**

A	B	C	D	E	F	G	H	I
	<u>Generation Integration</u>	<u>Network</u>	<u>Southern Intertie</u>	<u>Eastern Intertie</u>	<u>Utility Delivery</u>	<u>DSI Delivery</u>	<u>Segmented Total</u>	<u>Un- segmented</u>
<b>1 Stations</b>	106,360	3,663,209	784,602	27,368	18,130	7,964	<b>4,607,633</b>	26,707
2 Other Facilities								140,637
3 Emergency Stock								14,661
4 Unseg.Allocation	4,201	144,699	30,992	1,081	716	315	<b>182,005</b>	(182,005)
5 Subtotal	<b>110,562</b>	<b>3,807,908</b>	<b>815,595</b>	<b>28,449</b>	<b>18,846</b>	<b>8,279</b>	<b>4,789,638</b>	-
FERC Account Summary								
6 Account 352							494,795	
7 Account 353							4,162,760	
8 Account 354							26,060	
9 Account 355							6,441	
10 Account 356							15,133	
11 Account 358							380	
12 Account 359							12,646	
13 Account 390							-	
14 Account 391							-	
15 Leased (no account)							71,422	
16 Substation total							<b>4,789,638</b>	
<b>17 Lines</b>	31,361	3,363,715	311,156	94,271	409	-	<b>3,800,913</b>	30,218
18 Unseg.Allocation	249	26,742	2,474	749	3	-	<b>30,218</b>	(30,218)
19 Subtotal	<b>31,610</b>	<b>3,390,458</b>	<b>313,630</b>	<b>95,021</b>	<b>412</b>	-	<b>3,831,132</b>	-
FERC Account Summary								
20 Account 352							2,988	
21 Account 353							33,092	
22 Account 354							1,262,393	
23 Account 355							517,745	
24 Account 356							1,555,319	
25 Account 358							21,799	
26 Account 359							374,340	
27 Leased (no account)							65,944	
28 Line total							<b>3,833,620</b>	
<b>29 Intangibles (Account 303)</b>		4,085	5,473				<b>9,559</b>	

**Table 2**  
**BPA Segmented Investment, through Sept. 30, 2020**  
**(\$000)**

A	B	C	D	E	F	G	H	I
	<u>Generation Integration</u>	<u>Network</u>	<u>Southern Intertie</u>	<u>Eastern Intertie</u>	<u>Utility Delivery</u>	<u>DSI Delivery</u>	<u>Segmented Total</u>	<u>Un- segmented</u>
<b>30 Lines &amp; Subs Total</b>	<b>142,172</b>	<b>7,202,451</b>	<b>1,134,698</b>	<b>123,470</b>	<b>19,258</b>	<b>8,279</b>	<b>8,630,328</b>	-
31 % of Segmented Total	1.6%	83.5%	13.1%	1.4%	0.2%	0.1%	100.0%	
<b>32 Depreciable Land (Account 350)</b>								
33 Substations	9	143	-	-	-	-	152	
34 Lines	61	48,325	277	-	-	-	48,664	204
35 Other Facilities								962
36 Unseg.Allocation	19	973	153	17	3	1	1,166	(1,166)
<b>37 Subtotal</b>	<b>89</b>	<b>49,442</b>	<b>431</b>	<b>17</b>	<b>3</b>	<b>1</b>	<b>49,982</b>	-
							<b>Ancillary</b>	
<b>Other</b>							<b>Services</b>	<b>General Plant</b>
38 Control							137,614	
39 Communications							70,846	584,700
40 General Plant								645,768
41 Subtotal							<b>208,460</b>	<b>1,230,469</b>
FERC Account Summary								
42 Account 352								-
43 Account 353 (Ancillary service is control equipment only)							85,775	-
44 Account 356								-
45 Account 390								323,453
46 Account 391 (Ancillary service is control equipment only)							51,839	25,081
47 Account 392								80,483
48 Account 393								3,834
49 Account 394								15,647
50 Account 395								33,846
51 Account 396								37,303
52 Account 397 (Ancillary service is control equipment only)							70,846	645,768
53 Account 398								65,054
54 Other total							<b>208,460</b>	<b>1,230,469</b>
<b>55 Segmented Investment</b>	<b>142,261</b>	<b>7,251,893</b>	<b>1,135,129</b>	<b>123,487</b>	<b>19,261</b>	<b>8,280</b>	<b>208,460</b>	<b>1,230,469</b>

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

<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>
	<b><u>Generation Integration</u></b>	<b><u>Network</u></b>	<b><u>Southern Intertie</u></b>	<b><u>Eastern Intertie</u></b>	<b><u>Utility Delivery</u></b>	<b><u>DSI Delivery</u></b>	<b><u>Total</u></b>
<b>Stations</b>							
1 FY 2021	-	185,407	-	-	-	-	<b>185,407</b>
2 FY 2022	-	197,301	-	-	-	-	<b>197,301</b>
3 FY 2023	-	246,294	-	-	-	-	<b>246,294</b>
<b>Lines</b>							
4 FY 2021	-	67,379	-	-	-	-	<b>67,379</b>
5 FY 2022	-	101,497	-	-	-	-	<b>101,497</b>
6 FY 2023	-	95,841	-	-	-	-	<b>95,841</b>
<b>Lines &amp; Subs</b>							
7 FY 2021	-	252,786	-	-	-	-	<b>252,786</b>
8 FY 2022	-	298,798	-	-	-	-	<b>298,798</b>
9 FY 2023	-	342,136	-	-	-	-	<b>342,136</b>
	<b>Ancillary Services</b>	<b>General Plant</b>					
10 FY 2021	59,833	52,269					
11 FY 2022	99,468	92,843					
12 FY 2023	83,598	92,264					

**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		
		FY21	FY22	FY23	FY21	FY22	FY23	FY21	FY22	FY23	FY21	FY22	FY23
	<b>MAIN GRID PROJECTS</b>												
1	WEST OF CASCADES NORTH TRANSFER AREA	-	-	11,252	-	-	9,002	-	-	1,125	-	-	1,125
2	WEST OF CASCADES SOUTH TRANSFER AREA	-	-	-	-	-	-	-	-	-	-	-	-
3	TRI-CITIES AREA	5	5,900	25,700	5	5,900	25,700	-	-	-	-	-	-
4	MONTANA TO NORTHWEST TRANSFER AREA	60	-	-	30	-	-	24	-	-	6	-	-
5	NORTHWEST TO CALIFORNIA TRANSFER AREA	-	-	-	-	-	-	-	-	-	-	-	-
6	LOWER COLUMBIA TRANSFER AREA	-	-	-	-	-	-	-	-	-	-	-	-
7	SEATTLE TO PORTLAND TRANSFER AREA	1,000	26,900	-	600	16,140	-	300	8,070	-	100	2,690	-
8	PUGET SOUND TO CANADA TRANSFER AREA	1,086	-	-	543	-	-	326	-	-	217	-	-
9	MISC MAIN GRID PROJECTS	35	-	-	-	-	-	35	-	-	-	-	-
10	<b>AREA &amp; CUSTOMER SERVICE PROJECTS</b>												
11	SOUTHWEST IDAHO / NORTHWEST WYOMING AREA	240	-	3,800	240	-	3,800	-	-	-	-	-	-
12	LONGVIEW AREA	9,090	-	-	4,545	-	-	4,545	-	-	-	-	-
13	NORTHWEST MONTANA AREA	5,000	-	-	5,000	-	-	-	-	-	-	-	-
14	BURLEY / SOUTHERN IDAHO AREA	-	-	-	-	-	-	-	-	-	-	-	-
15	CENTRAL OREGON AREA	-	-	7,163	-	-	7,163	-	-	-	-	-	-
16	CENTRALIA / CHEHALIS AREA	67	150	-	60	135	-	7	15	-	-	-	-
17	DE MOSS / FOSSIL AREA	1	71	-	0	36	-	0	36	-	-	-	-
18	EUGENE AREA	300	1,700	780	300	1,700	780	-	-	-	-	-	-
19	HOOD RIVER / THE DALLES AREA	529	2,200	1,300	529	2,200	1,300	-	-	-	-	-	-
20	MID-COLUMBIA AREA	1,831	335	-	1,831	335	-	-	-	-	-	-	-
21	NORTH IDAHO AREA	-	-	-	-	-	-	-	-	-	-	-	-
22	NORTH OREGON COAST AREA	-	-	-	-	-	-	-	-	-	-	-	-
23	OKANOGAN AREA	-	-	-	-	-	-	-	-	-	-	-	-
24	OLYMPIC PENINSULA AREA	144	2,662	3,500	115	2,130	2,800	29	532	700	-	-	-
25	PENDLETON / LA GRANDE AREA	-	-	-	-	-	-	-	-	-	-	-	-
26	PORTLAND AREA	324	8,100	1,300	324	8,100	1,300	-	-	-	-	-	-
27	SALEM / ALBANY AREA	13	1,600	2,500	13	1,600	2,500	-	-	-	-	-	-
28	SEATTLE / TACOMA / OLYMPIA AREA	13,000	4,500	1,320	13,000	4,500	1,320	-	-	-	-	-	-
29	SOUTH OREGON COAST AREA	7,075	1,350	2,300	7,075	1,350	2,300	-	-	-	-	-	-
30	SOUTHWEST WASHINGTON COAST AREA	-	97	-	-	97	-	-	-	-	-	-	-
31	SPOKANE / COLVILLE / BOUNDARY AREA	786	-	-	628	-	-	157	-	-	-	-	-
32	TRI-CITIES AREA	7,704	18,400	23,583	6,163	14,720	18,866	770	1,840	2,358	770	1,840	2,358
33	VANCOUVER AREA	-	470	469	-	470	469	-	-	-	-	-	-
34	WALLA WALLA AREA	4	178	1,475	1	53	443	2	107	885	0	18	148
35	MISC AREA & CUSTOMER SERVICE	468	2,400	-	468	2,400	-	-	-	-	-	-	-
	<b>UPGRADES &amp; ADDITIONS</b>												
36	SYSTEM TELECOM	10,000	21,100	12,000	-	-	-	-	-	-	10,000	21,100	12,000
37	SUB DC	-	-	50	-	-	-	-	-	-	-	-	50
38	CONTROL CENTERS	12,000	6,928	1,300	-	-	-	-	-	-	12,000	6,928	1,300
39	LINES	235	3,000	606	-	-	-	235	3,000	606	-	-	-
40	SUB AC	14,589	5,000	39,830	14,589	5,000	39,830	-	-	-	-	-	-
41	IT	2,189	8,000	5,000	-	-	-	-	-	-	2,189	8,000	5,000
42	MISC FACILITIES - NON-ELECTRIC	550	12,200	42,000	-	-	-	-	-	-	550	12,200	42,000
43	MISC UPGRADES & ADDITIONS	89	-	-	89	-	-	-	-	-	-	-	-
	<b>SYSTEM REPLACEMENTS</b>												
44	SUB AC SUSTAIN	41,700	42,890	41,500	41,700	42,890	41,500	-	-	-	-	-	-
45	CC SUSTAIN	5,000	5,000	6,000	-	-	-	-	-	-	5,000	5,000	6,000
46	ACCESS ROADS - SUSTAIN	16,350	15,000	14,000	-	-	-	-	-	-	16,350	15,000	14,000
47	LAND RIGHTS - SUSTAIN	3,568	3,000	3,000	-	-	-	-	-	-	3,568	3,000	3,000

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

Project	Total			Substation			Line			General Plant & Ancillary			
	FY21	FY22	FY23	FY21	FY22	FY23	FY21	FY22	FY23	FY21	FY22	FY23	
	A	B	C	D	E	F	G	H	I	J	K	L	M
<b>SYSTEM REPLACEMENTS CONTINUED</b>													
48 LINES WOOD POLES SUSTAIN	20,000	33,000	33,000	-	-	-	20,000	33,000	33,000	-	-	-	-
49 LINES STEEL SUSTAIN	10,000	24,000	24,000	-	-	-	10,000	24,000	24,000	-	-	-	-
50 SUB DC SUSTAIN	8,200	1,100	1,974	8,200	1,100	1,974	-	-	-	-	-	-	-
51 SYSTEM TELECOM SUSTAIN	6,200	19,000	19,250	-	-	-	-	-	-	6,200	19,000	19,250	-
52 PSC - TELECOM TRANSPORT	-	-	-	-	-	-	-	-	-	-	-	-	-
53 PSC SUSTAIN	20,194	24,000	20,000	4,039	4,800	4,000	-	-	-	16,155	19,200	16,000	-
54 SPC SUSTAIN	17,443	21,156	20,000	15,699	19,040	18,000	-	-	-	1,744	2,116	2,000	-
55 TEAP - TOOLS	1,482	1,000	1,000	-	-	-	-	-	-	1,482	1,000	1,000	-
56 TEAP EQUIPMENT FLEET	5,325	10,000	12,000	-	-	-	-	-	-	5,325	10,000	12,000	-
57 LINES - RATING PROGRAM & COMPLIANCE	400	1,000	3,000	-	-	-	400	1,000	3,000	-	-	-	-
58 AIRCRAFT - FIXED WING	-	-	3,500	-	-	-	-	-	-	-	-	-	3,500
59 AIRCRAFT - HELICOPTER	-	3,500	-	-	-	-	-	-	-	-	3,500	-	-
60 SECURITY	3,500	8,000	8,200	3,150	7,200	7,380	-	-	-	350	800	820	-
61 MISC NON-ELECTRIC FACILITIES	9,729	41,000	14,200	-	-	-	-	-	-	9,729	41,000	14,200	-
62 MISC SYSTEM REPLACEMENTS	-	45	-	-	27	-	-	18	-	-	-	-	-
<b>OTHER</b>													
63 TOTAL ENVIRONMENT	5,557	5,580	5,590	5,557	5,580	5,590	-	-	-	-	-	-	-
64 TS PROGRAM INDIRECT	56,598	53,390	54,072	28,299	26,695	27,036	16,979	16,017	16,222	11,320	10,678	10,814	-
65 CORPORATE G&A CAP DISTRIBUTION	45,230	46,208	46,484	22,615	23,104	23,242	13,569	13,862	13,945	9,046	9,242	9,297	-
66 CAPITAL LEASE MODIFICATION	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTALS:</b>	364,888	491,109	517,998	185,407	197,301	246,294	67,379	101,497	95,841	112,102	192,311	175,862	-

**Table 4.1**  
**BPA Historical Operations and Maintenance (O&M)**  
**Fiscal years 2014 through 2020 (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>
<b>Stations</b>							
1 Substations Direct Allocation	1,044	34,073	5,905	250	339	127	<b>41,738</b>
2 % Direct	2.5%	81.6%	14.1%	0.6%	0.8%	0.3%	100.0%
3 Unsegmented Allocation	232	7,570	1,312	56	75	28	9,273
4 Non-Direct Allocation	2,022	65,990	11,436	485	656	246	<b>80,835</b>
5 Metering Direct Allocation	17	340	-	-	21	-	<b>378</b>
6 % Direct	4.5%	90.1%	0.0%	0.0%	5.5%	0.0%	100.00%
7 Non-Direct Allocation	23	462	-	-	28	-	<b>513</b>
<b>8 Total Station O&amp;M</b>	<b>3,338</b>	<b>108,436</b>	<b>18,653</b>	<b>791</b>	<b>1,118</b>	<b>401</b>	<b>132,737</b>
9 Station Percent	2.5%	81.7%	14.1%	0.6%	0.8%	0.3%	100.0%
<b>Lines</b>							
10 Direct Allocation	107	8,455	390	365	2	-	<b>9,319</b>
11 % Direct	1.1%	90.7%	4.2%	3.9%	0.0%	0.0%	100.00%
12 Unsegmented Allocation	1	58	3	3	0	-	64
13 Non-Direct Allocation	511	40,320	1,859	1,739	11	-	<b>44,440</b>
<b>14 Total Line O&amp;M</b>	<b>618</b>	<b>48,833</b>	<b>2,252</b>	<b>2,107</b>	<b>13</b>	<b>-</b>	<b>53,823</b>
15 Line Percent	1.1%	90.7%	4.2%	3.9%	0.0%	0.0%	100.0%
<b>16 Lines &amp; Subs</b>	<b>3,956</b>	<b>157,268</b>	<b>20,905</b>	<b>2,898</b>	<b>1,131</b>	<b>401</b>	<b>186,560</b>
17 % of Segmented Total	2.1%	84.3%	11.2%	1.6%	0.6%	0.2%	100.0%
<b>18 Other</b>	<u>Overhead</u>	<u>Ancillary Services</u>					
	58,627	64,539					



**Table 4.2**  
**Historical Operation and Maintenance (O&M) Expenses FY 2014 - FY 2020 (7 years)**

**Total O&M by category**  
(\$000)

A	B	C	D	E	F	G	H	I
	2014	2015	2016	2017	2018	2019	2020	Average
<b><u>O&amp;M allocated to Lines and Stations</u></b>								
1 ENVIRONMENTAL POLICY/PLANNING	5	19	6	6	1	2	(0)	5
2 POLLUTION PREVENTN & ABATEMENT	4,221	4,244	4,808	4,161	4,290	3,778	4,000	4,215
3 HEAVY MOBILE EQUIPMENT MAINT	200	116	312	427	55	588	198	271
4 JOINT COST MAINTENANCE	134	175	230	190	301	263	116	201
5 NON-ELECTRIC MAINTENANCE	21,296	32,203	27,546	28,872	26,636	30,892	23,611	27,294
6 POWER SYSTEM CONTROL MAINT	20,791	18,939	19,095	21,589	20,662	20,836	20,590	20,357
7 ROW MAINTENANCE	7,396	6,502	7,785	10,401	8,073	8,421	6,510	7,870
8 SUBSTATION MAINTENANCE	30,365	36,926	31,125	30,860	32,051	33,038	30,195	32,080
9 SYSTEM MAINTENANCE MANAGEMENT	8,214	6,041	8,555	8,348	8,480	8,604	8,437	8,097
10 SYSTEM PROTECTION CONTRL MAINT	11,963	12,718	13,222	14,921	15,239	16,485	16,851	14,485
11 TECHNICAL TRAINING	2,087	2,317	2,719	2,796	2,897	2,637	2,658	2,587
12 TRANSMISSION LINE MAINTENANCE	27,782	27,733	25,564	27,574	26,565	27,987	29,055	27,466
13 VEGETATION MANAGEMENT	19,536	18,223	16,489	16,784	18,112	18,709	17,964	17,974
14 SUBSTATION OPERATIONS	22,787	23,347	23,572	23,444	23,673	23,309	25,481	23,659
15 <b>Subtotal Lines and Stations</b>	<b>176,776</b>	<b>189,504</b>	<b>181,027</b>	<b>190,373</b>	<b>187,035</b>	<b>195,547</b>	<b>185,665</b>	<b>186,561</b>
<b><u>O&amp;M allocated to Ancillary Services</u></b>								
16 SCHED-AFTER-THE-FACT	240	237	273	305	158	136	152	214
17 SCHED-MANAGE SPRVISION & ADMIN	0	0	0	0	0	0	0	0
18 SCHED-PRE-SCHEDULING	328	344	382	211	134	54		242
19 SCHED-REAL-TIME SCHEDULING	4,056	4,323	4,739	5,062	5,062	4,906	5,090	4,748
20 SCHED-RESERVATIONS	1,049	1,156	1,167	1,211	1,029	813	731	1,022
21 SCHED-TECHNICAL SUPPORT	3,940	3,732	3,641	3,656	3,452	3,281	3,798	3,643
22 CONTROL CENTER SUPPORT	19,368	20,849	23,066	23,567	24,147	24,144	26,935	23,154
23 INFORMATION TECHNOLOGY	12,522	8,103	9,436	9,903	11,663	12,307	10,528	10,637
24 POWER SYSTEM DISPATCHING	12,260	13,209	13,913	13,722	14,705	15,775	16,092	14,239
25 TECHNICAL OPERATIONS	5,854	6,288	7,648	6,691	5,984	6,930	7,319	6,673
26 <b>Subtotal Ancillary Services</b>	<b>59,616</b>	<b>58,241</b>	<b>64,265</b>	<b>64,327</b>	<b>66,333</b>	<b>68,347</b>	<b>70,645</b>	<b>64,539</b>
<b><u>O&amp;M identified as Overhead</u></b>								
27 TRANS GRID MOD KSI EXP	0	0	0	1,173	3,577	7,011	6,639	2,628
28 STRATEGIC INTEGRATION		585	2,414	2,028	1,694	1,389	1,326	1,573
29 AIRCRAFT SERVICES	1,273	1,234	1,094	882	1,437	849	968	1,105
30 COMM ACT EXEC & ADMIN SVCS	10,318	11,727	16,530	16,908	19,128	18,743	17,114	15,781
31 GENERAL ADMINISTRATIVE	13,469	12,913	11,047	9,847	12,658	13,540	15,884	12,766
32 KSI ASSET MANAGEMENT EXP				708	740	272	281	500
33 LEGAL SUPPORT - EXPENSE	2,586	2,250	2,611	2,304	2,411	2,205	2,675	2,434
34 LOGISTICS SERVICES	5,340	5,598	6,685	5,861	6,188	7,165	6,289	6,161
35 MKTG BUSINESS STRAT & ASSESS	6,216	6,687	6,836	7,239	7,321	6,473	7,550	6,903
36 MKTG CONTRACT MANAGEMENT	4,509	4,244	4,453	4,465	3,766	3,244	2,359	3,863
37 MKTG INTERNAL OPERATIONS		0	0					0
38 MKTG TRANSMISSION BILLING	2,358	2,414	2,318	2,093	2,036	2,362	728	2,044
39 MKTG TRANSMISSION FINANCE	0							0
40 MKTG TRANSMISSION SALES	2,418	2,354	2,299	2,524	2,677	2,875	2,874	2,575
41 SECURITY ENHANCEMENTS EXPENSE	507	1,201	889	547	727	640	620	733
42 <b>Subtotal Overhead</b>	<b>48,994</b>	<b>51,205</b>	<b>57,177</b>	<b>56,581</b>	<b>64,361</b>	<b>66,766</b>	<b>65,306</b>	<b>58,627</b>
43 <b>Total Historical O&amp;M</b>	<b>285,385</b>	<b>298,950</b>	<b>302,469</b>	<b>311,282</b>	<b>317,729</b>	<b>330,660</b>	<b>321,617</b>	<b>309,727</b>

**Table 4.3**  
**Historical Operation and Maintenance (O&M) Expenses FY 2014 - FY 2020 (7 years)**  
**Allocation of average historical O&M to Lines, Substations, and Metering Locations**  
(\$000)

A	B	C	D	E	F	G	H	I
	Direct Charges				Non-direct Charges			
	Lines	Subs	Metering	Subtotal	Lines	Subs	Metering	Subtotal
1 ENVIRONMENTAL POLICY/PLANNING	0	0	0	0	1	5	0	5
2 POLLUTION PREVENTN & ABATEMENT	95	792	0	887	0	4,043	0	4,043
3 HEAVY MOBILE EQUIPMENT MAINT	0	0	0	0	0	271	0	271
4 JOINT COST MAINTENANCE	0	199	0	199	0	0	0	0
5 NON-ELECTRIC MAINTENANCE	0	9,290	16	9,306	0	18,735	33	18,768
6 POWER SYSTEM CONTROL MAINT	0	6,784	68	6,852	0	13,133	144	13,277
7 ROW MAINTENANCE	0	70	0	70	7,800	0	0	7,800
8 SUBSTATION MAINTENANCE	13	18,137	57	18,208	9	13,008	44	13,062
9 SYSTEM MAINTENANCE MANAGEMENT	0	0	0	0	0	8,094	0	8,094
10 SYSTEM PROTECTION CONTRL MAINT	0	7,818	187	8,006	0	7,501	214	7,715
11 TECHNICAL TRAINING	0	0	0	0	400	2,171	16	2,587
12 TRANSMISSION LINE MAINTENANCE	8,881	0	0	8,881	18,259	0	0	18,259
13 VEGETATION MANAGEMENT	7	0	0	7	17,963	0	0	17,963
14 SUBSTATION OPERATIONS	8,310	7	42	8,358	9	13,875	61	13,945
15 <b>Total</b>	<b>17,306</b>	<b>43,097</b>	<b>370</b>	<b>60,773</b>	<b>44,440</b>	<b>80,835</b>	<b>513</b>	<b>125,788</b>

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**

	A	B	C	D
		Generation Integration	Network	Utility Delivery
<b>1</b>	<b><u>BOR Project Transmission Facilities:</u></b>			
2	Columbia Basin (Grand Coulee) Project	212,655,899	96,193,914	3,425,369
3	Other Projects	32,046,757	5,583,909	0
4	<b>Total BOR Projects</b>	<b>244,702,656</b>	<b>101,777,824</b>	<b>3,425,369</b>
<b>5</b>	<b><u>COE Project Transmission Facilities:</u></b>			
6	Bonneville Project	<u>29,797,086</u>	<u>2,700,095</u>	<u>0</u>
7	<b>TOTAL ALL PROJECTS:</b>	<b>274,499,742</b>	<b>104,477,919</b>	<b>3,425,369</b>
8	<b>TOTAL TRANSMISSION ALLOCATION:</b>	<b>107,903,288</b>	96.83%	3.17%

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**Appendix A**  
**BP-22 Rate Case Final Proposal Segmentation**  
**Details**

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**Appendix A**  
**BP-22 Rate Case Final Proposal Segmentation Details**

A	B	C	D
<b>Generation Integration Facilities</b>			
<b>Transmission Lines</b>	<b>Investment (\$)</b>	<b>O&amp;M (\$)</b>	<b>Multi %</b>
1	ANDERSON RANCH-MOUNTAIN HOME NO 1	4,449,861	11,352
2	BIG CLIFF-DETROIT PH NO 1	181,340	1,839
3	BIG CLIFF-DETROIT PH NO 2	181,340	31
4	BIG EDDY SUBSTATION 230/115KV TIE NO 1	11,281	-
5	BLACK CANYON-EMMETT NO 1	307,180	6,236
6	BONNEVILLE PH 1-NORTH BONNEVILLE NO 1	85,578	2,918
7	BONNEVILLE PH 1-NORTH BONNEVILLE NO 2	86,775	5,658
8	BONNEVILLE PH 2-NORTH BONNEVILLE NO 3	98,469	214
9	BONNEVILLE PH 2-NORTH BONNEVILLE NO 4	1,214,223	234
10	CHANDLER TAP TO GRANDVIEW-RED MOUNTAIN NO 1	163,062	1,592
11	CHIEF JOSEPH PH-CHIEF JOSEPH NO 1	68,924	783
12	CHIEF JOSEPH PH-CHIEF JOSEPH NO 2	89,376	709
13	CHIEF JOSEPH PH-CHIEF JOSEPH NO 3	82,433	403
14	CHIEF JOSEPH PH-CHIEF JOSEPH NO 4	78,094	381
15	CHIEF JOSEPH PH-CHIEF JOSEPH NO 5	475,202	3,373
16	CHIEF JOSEPH PH-CHIEF JOSEPH NO 6	439,561	3,135
17	COLUMBIA GENERATING STATION-ASHE NO 1	463,009	266
18	COLUMBIA GENERATING STATION-ASHE NO 2	157,134	190
19	COUGAR-HOLDEN CREEK NO 1	643,374	10,052
20	DETROIT PH-DETROIT NO 1	42,262	1,530
21	DETROIT PH-DETROIT NO 2	42,262	98
22	DETROIT-SANTIAM NO 1	1,927,744	13,063
23	DWORSHAK PH-DWORSHAK NO 1	1,225,822	3,298
24	DWORSHAK PH-DWORSHAK NO 1 ML CLEARWATER CO	-	-
25	GREEN PETER-LEBANON NO 1	357,224	5,175
26	HILLS CREEK-LOOKOUT POINT NO 1	332,970	8,454
27	ICE HARBOR-FRANKLIN NO 1	587,534	7,116
28	ICE HARBOR-FRANKLIN NO 2	15,726	23
29	ICE HARBOR-FRANKLIN NO 3	133,963	110
30	JOHN DAY PH-JOHN DAY NO 1	4,121,180	986
31	JOHN DAY PH-JOHN DAY NO 2	3,528,650	823
32	JOHN DAY PH-JOHN DAY NO 3	2,987,559	1,222
33	JOHN DAY PH-JOHN DAY NO 4	4,056,592	1,421
34	JOHN DAY STATION SERVICE-JOHN DAY NO 1	24,389	3,236
35	LIBBY PH-LIBBY NO 1	278,220	38
36	LIBBY PH-LIBBY NO 2	265,855	1,458
37	LITTLE GOOSE PH-LITTLE GOOSE NO 1	288,469	1,637
38	LOOKOUT POINT PH-LOOKOUT POINT NO 1	10,253	401
39	LOWER GRANITE PH-LOWER GRANITE NO 1	433,123	1,368
40	LOWER MONUMENTAL PH-LOWER MONUMENTAL NO 1	236,523	1,609
41	MCNARY PH-MCNARY 3&4 NO 3	135,173	153
42	MCNARY PH-MCNARY NO 1	76,683	131
43	MCNARY PH-MCNARY NO 2	74,361	192
44	MCNARY PH-MCNARY NO 5	101,717	164
45	MCNARY PH-MCNARY NO 6	112,595	313
46	THE DALLES PH-BIG EDDY NO 1	118,075	2,145
47	THE DALLES PH-BIG EDDY NO 2	121,407	343
48	THE DALLES PH-BIG EDDY NO 3	107,356	257
49	THE DALLES PH-BIG EDDY NO 4	107,351	245
50	THE DALLES PH-BIG EDDY NO 5	116,296	214
51	THE DALLES PH-BIG EDDY NO 6	117,572	467
52	<b>Subtotal Lines</b>	<b>31,361,122</b>	<b>107,057</b>
<b>Stations</b>	<b>Investment (\$)</b>	<b>O&amp;M (\$)</b>	<b>Multi %</b>
53	ALBENI FALLS SUBSTATION	365,644	6,381
54	ASHE SUBSTATION	3,866,076	45,613
55	BIG EDDY SUBSTATION	4,053,297	25,574
56	BONNEVILLE POWERHOUSE #1	843,745	10,841
57	CHIEF JOSEPH POWERHOUSE	102,351	3,402
58	CHIEF JOSEPH SUBSTATION	12,228,885	100,005
59	COLUMBIA GENERATING STATION GENERATING PLANT (ENERGY NORTHW	110,860	-
60	COUGAR SUBSTATION	255,378	10,019
61	DETROIT SUBSTATION	1,062,141	13,508
62	DWORSHAK POWERHOUSE	190,858	9,447

**Appendix A**  
**BP-22 Rate Case Final Proposal Segmentation Details**

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
63	DWORSHAK SUBSTATION	4,846,793	36,992	18%
64	FOSTER SUBSTATION	42,312	7,914	
65	FRANKLIN SUBSTATION	1,912,047	35,656	12%
66	GRAND COULEE 115 KV SWITCHYARD	75,243	18,051	
67	GRAND COULEE 230 KV SWITCHYARD	1,777,144	14,079	
68	GRAND COULEE 500 KV SWITCHYARD	3,733,258	36,668	
69	GREEN PETER SUBSTATION	257,380	4,785	
70	HANFORD NO.2 CONSTRUCTION SUBSTATION	58,241	8,916	
71	HILLS CREEK SUBSTATION	379,427	12,753	
72	HUNGRY HORSE POWERHOUSE	800,514	8,669	
73	HUNGRY HORSE SWITCHYARD	89,046	-	
74	ICE HARBOR POWERHOUSE	187,633	10,220	
75	JOHN DAY POWERHOUSE	276,948	1,787	
76	JOHN DAY SUBSTATION	15,574,155	179,905	29%
77	LIBBY POWERHOUSE	675,088	12,893	
78	LIBBY SUBSTATION(BPA)	3,099,164	75,954	31%
79	LITTLE GOOSE POWERHOUSE	489,782	5,899	
80	LITTLE GOOSE SUBSTATION	17,018,720	37,679	20%
81	LOOKOUT POINT POWERHOUSE	222,084	636	
82	LOOKOUT POINT SUBSTATION	1,109,929	8,673	25%
83	LOST CREEK POWERHOUSE	53,123	728	
84	LOWER GRANITE POWERHOUSE	358,521	7,427	
85	LOWER GRANITE SUBSTATION	4,059,685	35,289	25%
86	LOWER MONUMENTAL POWERHOUSE	393,152	6,056	
87	LOWER MONUMENTAL SUBSTATION	5,468,856	39,142	13%
88	MCNARY POWERHOUSE	1,080,165	17,888	
89	MCNARY SUBSTATION	11,424,087	49,245	8%
90	MINIDOKA POWERHOUSE	241,006	7,091	
91	MOUNTAIN HOME SUBSTATION(BPA)	174,369	25,943	
92	NORTH BONNEVILLE SUBSTATION	4,829,681	65,102	31%
93	PALISADES POWERHOUSE	620,267	9,873	
94	ROZA POWERHOUSE	23,450	-	
95	SACAJAWEA SUBSTATION	219,162	652	1%
96	SANTIAM SUBSTATION	579,466	6,695	2%
97	THE DALLES POWERHOUSE	667,344	12,056	
98	WPPSS NO. 2 POWERHOUSE	463,746	17,972	
99	<b>Subtotal Stations</b>	<b>106,360,222</b>	<b>1,044,078</b>	
100	<b>Total Generation Integration</b>	<b>137,721,344</b>	<b>1,151,135</b>	

<b>Network Facilities</b>				
	<b>Investment (\$)</b>	<b>O&amp;M (\$)</b>	<b>Multi %</b>	
101	115 KV TARBELL TAP LINE	459,599	-	
102	230 KV ARCO-LOST RIVER LINE	186,780	-	
103	69 KV BOARDMAN-IONE LINE	221,420	-	
104	ABERDEEN TAP TO SATSOP PARK-COSMOPOLIS NO 1	1,597,354	2,320	
105	ACORD TAP TO GRANDVIEW-RED MOUNTAIN NO 1 (UNKNOWN)	256,732	-	
106	ADAIR TAP TO SALEM-ALBANY NO 2	83,392	129	
107	ADDY-COLVILLE NO 1	57,448	1,158	
108	ADDY-CUSICK NO 1	5,669,101	10,467	
109	ALBANY-BURNT WOODS NO 1	1,131,766	7,153	
110	ALBANY-BURNT WOODS NO 1 ML BENTON CO	2,789,686	-	
111	ALBANY-BURNT WOODS NO 1 ML LINCOLN CO	94,000	-	
112	ALBANY-BURNT WOODS NO 1 ML LINN CO	250,687	-	
113	ALBANY-EUGENE NO 1	6,638,514	46,837	
114	ALBANY-EUGENE NO 1 (ML LANE CO)	3,396,017	-	
115	ALBANY-EUGENE NO 1 (ML LINN CO)	19,422,179	-	
116	ALBANY-LEBANON NO 1	1,332,448	23,691	
117	ALBENI FALLS-PINE STREET NO 1	375,750	769	
118	ALBENI FALLS-SAND CREEK NO 1	12,475,112	20,429	
119	ALLSTON-CLATSOP NO 1	3,520,421	28,585	
120	ALLSTON-DRISCOLL NO 1	1,543,552	5,470	
121	ALLSTON-DRISCOLL NO 2	2,778,771	4,947	
122	ALVEY 500/230 KV TIE LINE NO 1	347,565	1,505	
123	ALVEY-FAIRVIEW NO 1	32,615,612	70,514	
124	ALVEY-FAIRVIEW NO 1 (ML COOS CO)	6,146,956	-	



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	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
125	ALVEY-FAIRVIEW NO 1 (ML DOUGLAS CO)	19,723,712	-	
126	ALVEY-FAIRVIEW NO 1 (ML LANE CO)	7,942,072	-	
127	ALVEY-LANE NO 1	2,961,305	9,670	
128	ALVEY-MARTIN CREEK NO 1	768,840	4,264	
129	ANACONDA-DIVIDE NO 1	1,148,931	12,261	
130	ANTELOPE-FOSSIL TRANSMISSION LINES & SUBSTATION	16,651,909	-	
131	ASHE TAP TO MIDWAY-HEW NO 2	83,431	2,840	
132	ASHE-HANFORD NO 1	5,509,091	3,732	
133	ASHE-MARION NO 2	87,675,018	202,966	
134	ASHE-SLATT NO 1	25,272,636	41,663	
135	ASHE-WHITE BLUFFS NO 1	1,215,881	1,822	
136	BADGER CANYON-REATA NO 1	745,517	1,190	
137	BADGER CANYON-RICHLAND NO 1	697,783	4,598	
138	BAKERS CORNER TAP TO LEXINGTON-LONGVIEW NO 1	260,047	176	
139	BALD MOUNTAIN TAP TO UNDERWOOD TAP	119,704	114	
140	BANDON SUBSTATION TRANSFORMER TIE 1	30,869	371	
141	BANDON-ROGUE NO 1	29,246,772	37,970	
142	BELFAIR TAP TO SHELTON-KITSAP NO 2	1,313	-	
143	BELL-ADDY NO 1	5,039,694	13,524	
144	BELL-ADDY NO 1 ML SPOKANE CO	947,491	-	
145	BELL-ADDY NO 1 ML STEVENS CO	439,089	-	
146	BELL-BOUNDARY NO 1 (ML PEND OREILLE CO)	510,978	-	
147	BELL-BOUNDARY NO 1 (ML SPOKANE CO)	481,420	-	
148	BELL-BOUNDARY NO 1 (SACH-BELL-1, PLANNED)	5,679,015	28,565	
149	BELL-BOUNDARY NO 3	29,510,722	67,470	
150	BELLINGHAM-CUSTER NO 1	149,475	1,058	
151	BELL-LANCASTER NO 1	2,431,074	11,008	
152	BELL-TRENTWOOD NO 1	985,498	6,002	
153	BELL-TRENTWOOD NO 2	1,069,475	3,264	
154	BELL-USK NO 1	1,844,972	7,151	
155	BENTON-451B NO 1	266,152	19,664	
156	BENTON-DOE B3-S4 NO 1 (RET)	155,177	280	
157	BENTON-FRANKLIN NO 1	7,215,789	2,814	
158	BENTON-FRANKLIN NO 2	631,568	9,738	
159	BENTON-OTHELLO NO 1	347,967	1,420	
160	BENTON-OTHELLO NO 1 (ML BENTON CO)	4,602,662	-	
161	BENTON-SCOOTENEY NO 1	996,117	10,015	
162	BENTON-WHITE BLUFFS NO 1	664,379	3,504	
163	BERTELTSEN-WILLOW CREEK NO 1	97,254	473	
164	BEST LANE TAP TO BRASADA-HARNEY NO 1	1,335,006	-	
165	BETTAS ROAD-COLUMBIA NO 1	1,461,841	4,531	
166	BETTAS ROAD-COLUMBIA NO 1 (CHELAN CO)	317,805	-	
167	BETTAS ROAD-COLUMBIA NO 1 (KITITITAS CO)	653,155	-	
168	BIG EDDY SUBSTATION 230/115KV TIE NO 1	46,374	-	19%
169	BIG EDDY-CHEMAWA NO 1	3,481,772	104,709	
170	BIG EDDY-DE MOSS NO 1	3,255,150	18,745	
171	BIG EDDY-KNIGHT NO 1	33,164,043	7,689	
172	BIG EDDY-KNIGHT NO 1 (ML KLICKTAT CO)	67,249,715	-	
173	BIG EDDY-KNIGHT NO 1 (ML WASON CO)	44,132,564	-	
174	BIG EDDY-MCLOUGHLIN 1&2 NO 1	4,965,983	14,899	
175	BIG EDDY-MCLOUGHLIN 1&2 NO 2	1,764,192	4,965	
176	BIG EDDY-OSTRANDER NO 1	10,508,083	11,625	
177	BIG EDDY-OSTRANDER NO 1 (ML CLACKAMAS CO)	1,879,709	-	
178	BIG EDDY-QUENETT CREEK NO 1	4,236,852	56	
179	BIG EDDY-QUENETT CREEK NO 2	2,212,996	94	
180	BIG EDDY-REDMOND NO 1	10,114,997	74,808	
181	BIG EDDY-SPRING CREEK NO 1	3,032,156	21,885	
182	BIG EDDY-THE DALLES FISHWAY HYDRO PLANT	2,955,999	-	
183	BIG EDDY-TROUTDALE NO 1	14,275,678	80,564	
184	BIG EDDY-TROUTDALE NO 1 (MULTNOMAH CO)	1,157,433	-	
185	BLUE RIVER TAP TO COUGAR-HOLDEN CREEK NO 1	58,362	8,526	
186	BOARDMAN TAP TO MCNARY-JONES CANYON NO 1	61,136	227	
187	BOARDMAN-ALKALI NO 1	639,747	8,267	
188	BOARDMAN-IONE NO 1	733,444	7,329	
189	BONNEVILLE PH 1-HOOD RIVER NO 1	7,628,417	27,406	
190	BONNEVILLE PH 1-NORTH CAMAS NO 1	453,835	2,195	

**Appendix A**  
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	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
191	BONNEVILLE PH1-ALCOA 1&2 (INACTIVE)	7,905	1,149	
192	BONNEVILLE PH1-ALCOA NO 1 & 2 (BONN PH1-ALCOA NO 2 SECTION)	2,203,114	576	
193	BONNEVILLE PH1-ALCOA NO 1 & 2 (BONN PH1-ALCOA NO 1 SECTION)	77,542	5,975	
194	BOTHELL-SAMMAMISH (PSE) (FOR ACCOUNTING PURPOSES ONLY)	575,499	-	
195	BOTHELL-SNO-KING NO 1	1,583,908	86	
196	BOTHELL-SNO-KING NO 2	1,658,531	240	
197	BOUNDARY-NELWAY 1	401,084	2,398	
198	BOUNDARY-WANETA 1	117,328	957	
199	BOYER-TILLAMOOK NO 1	11,973,634	23,419	
200	BRASADA-HARNEY NO 1	7,295,162	202,358	
201	BRASADA-HARNEY NO 1 ML DESCHUTES CO	314,072	-	
202	BRASADA-HARNEY NO 1 ML HARNEY CO	82,671	-	
203	BRONX-SAND CREEK NO 1	2,622,656	1,447	
204	BUCKLEY-GRIZZLY NO 1	7,514,539	10,186	43%
205	BUCKLEY-MARION NO 1	20,351,214	10,830	50%
206	BUCKLEY-MARION NO 1 (ML CLACKAMAS CO)	752,032	-	50%
207	BUCKLEY-MARION NO 1 (ML MARION CO)	322,300	-	50%
208	BURBANK TAP TO FRANKLIN-WALLA WALLA NO 1	2,665	110	
209	CALPINE-MCNARY NO 1	428,117	3,476	
210	CANAL-SECOND LIFT NO 1	25,231	671	
211	CANAL-SECOND LIFT NO 2	19,804	230	
212	CANBY TAP TO MALIN-HILLTOP NO 1	3,359,842	4,073	
213	CARDWELL-COLITZ NO 1 (ML) COWLITZ COUNTY	3,466,905	-	
214	CARDWELL-COWLITZ NO 1	634,286	2,681	
215	CARLTON-MCMINNVILLE NO 1	463,769	990	
216	CARLTON-SHERWOOD NO 1	2,108,150	2,342	
217	CARLTON-TILLAMOOK NO 1	9,422,664	46,642	
218	CARSON TAP TO UNDERWOOD TAP	267,329	912	
219	CASCADE LOCKS TAP TO BONNEVILLE PH 1-HOOD RIVER NO 1	148,752	96	
220	CATTLE CREEK-GOSHEN NO 1	714,384	22,686	
221	CATTLE CREEK-GOSHEN NO 1 ML BINGHAM CO	1,172,194	-	
222	CATTLE CREEK-GOSHEN NO 1 ML BONNEVILLE CO	3,265,460	-	
223	CENTRAL FERRY-LOWER MONUMENTAL NO 1	14,568,222	7,996	
224	CENTRAL FERRY-LOWER MONUMENTAL NO 1 (ML COLUMBIA CO)	35,181,649	-	
225	CENTRAL FERRY-LOWER MONUMENTAL NO 1 (ML GARFIELD CO)	5,110,684	-	
226	CENTRAL FERRY-LOWER MONUMENTAL NO 1 (ML WALLA WALLA CO)	30,591,087	-	
227	CENTRALIA TAP TO CHEHALIS-COVINGTON NO 1	-	-	
228	CENTRALIA-MAY STREET NO 1	167,108	118	
229	CGS BACKUP BANK TAP TO BENTON - 451B NO 1	107,386	4,423	
230	CGS2 BACKUP TAP TO HANFORD NO 2 CONSTRUCTION TAP	148,476	-	
231	CHALIS-CENTRALIA NO 1 ML LEWIS CO	4,232,257	-	
232	CHEHALIS-CENTRALIA NO 1	1,480,072	6,508	
233	CHEHALIS-CENTRALIA NO 2	1,762,049	11,648	
234	CHEHALIS-CENTRALIA NO 2 ML LEWIS CO	6,316,710	-	
235	CHEHALIS-COVINGTON NO 1	2,516,477	259,220	
236	CHEHALIS-MAYFIELD NO 1	2,025,266	5,415	
237	CHEHALIS-OLYMPIA NO 1	3,938,938	20,651	
238	CHEHALIS-RAYMOND NO 1	16,392,373	32,179	
239	CHEMAWA-SALEM ALUMINA NO 1	324,986	2,373	
240	CHEMAWA-SALEM NO 1	4,818,149	3,489	
241	CHEMAWA-SALEM NO 2	337,015	39,837	
242	CHENEY TAP TO SILVER LAKE-SUNSET	-	4,451	
243	CHENOWETH-GOLDENDALE NO 1	2,691,475	13,720	
244	CHIEF JOEPH-SICKLER NO 1 ML DOUGLAS CO	737,581	-	
245	CHIEF JOSEPH-EAST OMAK NO 1	5,233,747	5,178	
246	CHIEF JOSEPH-MONROE NO 1	22,059,451	69,082	
247	CHIEF JOSEPH-MONROE NO 1 ML SNOHOMISH CO	1,954,071	-	
248	CHIEF JOSEPH-SICKLER NO 1	4,620,138	22,113	
249	CHIEF JOSEPH-SNOHOMISH NO 3	9,130,012	91,414	
250	CHIEF JOSEPH-SNOHOMISH NO 4	9,240,347	83,277	
251	CHRISTMAS VALLEY TAP TO BRASADA-HARNEY NO 1 (UKNOWN)	1,640	-	
252	COLUMBIA FALLS-CONKELLEY NO 1	72,714	1,374	
253	COLUMBIA FALLS-FLATHEAD NO 1	756,209	7,176	
254	COLUMBIA FALLS-KALISPELL NO 1	805,808	6,618	
255	COLUMBIA FALLS-TREGO NO 1	2,016,563	31,453	
256	COLUMBIA-ELLENSBURG NO 1	1,962,585	12,911	

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	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
257	COLUMBIA-ELLENSBURG NO 1 ML KITTITAS CO	4,463,967	-	
258	COLUMBIA-GRAND COULEE NO 1	1,417,945	8,854	
259	COLUMBIA-GRAND COULEE NO 3	1,722,738	3,715	
260	COLUMBIA-VALHALLA NO 1	380,752	8,146	
261	COLUMBIA-VALHALLA NO 2	703,606	3,797	
262	COLVILLE-BOUNDARY NO 1	4,912,891	18,927	
263	COLVILLE-REPUBLIC NO 1	7,650,443	36,824	
264	COLVILLE-REPUBLIC NO 1 (ML STEVENS CO)	4,685,362	-	
265	CONDIT-GLENWOOD 69KV LINE	650,712	-	
266	CONNELL TAP TO BENTON-SCOOTENEY NO 1	215,687	7,554	
267	CONNLEY COLLECTOR TAP TO LAPINE-FORT ROCK NO 1	1,410,913	-	
268	COSMOPOLIS-ABERDEEN NO 1	6,928	216	
269	COUGAR-HOLDEN CREEK NO 1	2,442,582	38,163	79%
270	COVINGTON SUBSTATION TIE NO 2	17,720	4,336	
271	COVINGTON-BETTAS ROAD NO 1	2,533,915	50,687	
272	COVINGTON-CRESTON SCL NO 1	398,640	4,874	
273	COVINGTON-DUWAMISH NO 1	752,610	11,884	
274	COVINGTON-MAPLE VALLEY NO 2	1,129,206	9,253	
275	COVINGTON-WHITE RIVER NO 1	216,902	12,972	
276	COWLITZ TAP TO CHEHALIS-COVINGTON NO 1	6,019,795	5,492	
277	COYOTE SPRINGS-SLATT NO 1	2,352,112	19,257	88%
278	CRESTON-BELL NO 1	5,845,052	11,917	
279	CRESTON-BELL NO 1 ML LINCOLN CO	14,192,117	-	
280	CRESTON-BELL NO 1 ML SPOKANE CO	8,274,167	-	
281	CRESWELL TAP TO ALVEY-MARTIN CREEK NO 1	92,141	-	
282	CUSTER-INGLEDOW NO 1	7,635,929	7,410	
283	CUSTER-INGLEDOW NO 2	1,768,518	18,597	
284	CUSTER-INTALCO NO 1	497,585	5,902	
285	CUSTER-INTALCO NO 2	531,003	4,171	
286	DAVIS CREEK TAP TO MILE-HI-ALTURAS	208,342	4,976	
287	DE MOSS-FOSSIL NO 1	5,741,064	46,912	
288	DEXTER TAP TO LOOKOUT POINT-ALVEY NO 1	75,069	824	
289	DISCOVERY-CHENOWETH NO 1	343,283	1,443	
290	DORENA TAP TO ALVEY-MARTIN CREEK NO. 1	263,948	8,904	
291	DRAIN-ELKTON NO 1	843	-	
292	DRAIN-OAKLAND NO 1	843	-	
293	DRISCOLL TAP TO ALLSTON-CLATSOP NO 1	1,683,694	-	
294	DRISCOLL-ASTORIA NO 1	2,704,597	5,902	
295	DRISCOLL-NASELLE NO 1	4,352,081	17,013	
296	DRISCOLL-WAUNA NO 1	27,438	763	
297	DRUMMOND - MACKS INN NO 1	97,538	91,689	
298	DUTCH CANYON TAP TO ST JOHNS-ST HELENS NO 1	139	-	
299	DWORSHAK PH-OROFINO NO 1	205,764	3,082	
300	DWORSHAK-TAFT NO 1	22,701,447	50,785	
301	EAST ELLENSBURG TAP TO COLUMBIA-ELLENSBURG NO 1	390,200	3,395	
302	EAST ELLENSBURG TAP TO COLUMBIA-ELLENSBURG NO 1 (ML KITTITA	519,029	-	
303	EAST OMAK TAP TO GRAND COULEE-FOSTER CREEK NO 1	5,535,524	3,560	
304	EAST OMAK-OROVILLE NO 1	13,684	4,653	
305	EAST OMAK-TONASKET NO 2	13,691	4,110	
306	ECHO LAKE - MAPLE VALLEY NO 1 & 2 (EL-MV NO	5,628,393	36,455	
307	ECHO LAKE - MAPLE VALLEY NO 1 & 2 (EL-MV NO 1 SECTION)	5,678,484	8,966	
308	ECHO LAKE-MONROE NO 1	4,938,957	34,261	
309	ELBE TAP TO ALDER-LAGRANDE NO 1,2	1,909,302	2,644	
310	ELLENSBURG-MOXEE NO 1	4,590,794	59,318	
311	ELTOPIA TAP TO SMITH CANYON-REDD	470,623	1,786	
312	EUGENE-ALDERWOOD NO 1	3,965,075	15,027	
313	EUGENE-ALVEY NO 2	2,008,913	8,071	
314	EUGENE-BERTELSEN NO 1	259,902	1,029	
315	EUGENE-LANE NO 1	159,386	4,857	
316	FAIRMOUNT-PORT ANGELES NO 1	3,344,639	13,150	
317	FAIRMOUNT-PORT ANGELES NO 2	1,555,367	16,946	
318	FAIRVIEW-BANDON NO 1	2,615,500	37,846	
319	FAIRVIEW-BANDON NO 2	2,228,327	9,211	
320	FAIRVIEW-ROGUE NO 1	6,893,302	46,030	
321	FIDALGO-LOPEZ ISLAND NO 3	1,929,609	408	
322	FIDALGO-LOPEZ ISLAND NO 4	4,794,685	191	

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A	B	C	D
323 FIDALGO-LOPEZ ISLAND NO 5	13,833,755	1,809	
324 FILBERT TAP TO FOREST GROVE-MCMINNVILLE NO 1	290,501	388	
325 FLATHEAD-HOT SPRINGS NO 1	3,257,393	13,763	
326 FORDS PRAIRIE TAP TO CHEHALIS-CENTRALIA NO 2	204,048	996	
327 FOREST GROVE-MCMINNVILLE NO 1	2,213,117	10,054	
328 FOREST GROVE-TILLAMOOK NO 1	12,082,331	35,572	
329 FOREST GROVE-TILLAMOOK NO 1 (ML TILLAMOOK COUNTY)	17,341,219	-	
330 FOREST GROVE-TILLAMOOK NO 1 (ML WASHINGTON COUNTY)	6,942,749	-	
331 FOSTER TAP TO GREEN PETER-LEBANON NO 1	276,039	5,909	
332 FRANKLIN-BADGER CANYON NO 1	1,772,974	6,332	
333 FRANKLIN-BADGER CANYON NO 2	2,800,482	11,736	
334 FRANKLIN-HEDGES NO 1	669,682	1,304	
335 FRANKLIN-RUBY STREET NO 1	1,347,949	2,051	
336 FRANKLIN-WALLA WALLA NO 1	6,580,260	13,216	
337 FROMAN TAP TO ALBANY-LEBANON NO 1	592,229	353	
338 GARRISON-ANACONDA NO 1	5,211,339	62,435	
339 GARRISON-TAFT NO 1	86,218,545	135,503	
340 GARRISON-TAFT NO 2	86,218,545	107,121	
341 GLADE TAP TO BENTON-FRANKLIN NO 2	716	1,325	
342 GOSHEN-DRUMMOND NO 1	11,345,516	63,645	
343 GRAND COULEE-BELL NO 3	3,596,021	19,929	
344 GRAND COULEE-BELL NO 3 (ML GRANT CO)	78,436	-	
345 GRAND COULEE-BELL NO 3 (ML LINCOLN CO)	9,124,913	-	
346 GRAND COULEE-BELL NO 3 (ML SPOKANE CO)	3,400,212	-	
347 GRAND COULEE-BELL NO 5	4,269,127	27,447	
348 GRAND COULEE-BELL NO 6	104,017,288	21,920	
349 GRAND COULEE-CHIEF JOSEPH NO 1	2,762,327	10,679	
350 GRAND COULEE-CHIEF JOSEPH NO 2	2,569,159	22,534	
351 GRAND COULEE-CHIEF JOSEPH NO 3	4,100,432	8,103	
352 GRAND COULEE-CRESTON NO 1	1,574,419	6,429	
353 GRAND COULEE-CRESTON NO 1 (GRANT CO)	1,664,299	-	
354 GRAND COULEE-CRESTON NO 1 (LINCOLN CO)	8,264,385	-	
355 GRAND COULEE-FOSTER CREEK NO 1	1,905,299	13,504	
356 GRAND COULEE-HANFORD NO 1	12,282,324	82,445	
357 GRAND COULEE-OKANOGAN NO 2	2,928,613	26,387	
358 GRAND COULEE-SCHULTZ NO 1	31,696,784	25,917	
359 GRAND COULEE-SCHULTZ NO 2	30,625,010	8,320	
360 GRAND COULEE-WESTSIDE AVA NO 1 (ML GRANT CO)	664,542	-	
361 GRAND COULEE-WESTSIDE AVA NO 1 (ML LINCOLN CO)	7,446,951	-	
362 GRAND COULEE-WESTSIDE AVA NO 1 (ML SPOKANE CO)	1,708,835	-	
363 GRAND COULEE-WESTSIDE(AVA) NO 1	1,994,438	8,532	
364 GRANDE ROND-BOYER NO 1	1,383,030	5,006	
365 GRANDVIEW-RED MOUNTAIN NO 1	3,207,586	12,525	
366 GREEN BLUFF TAP TO BELL-TRENTWOOD NO 2	786,280	2,757	
367 GREEN PETER-LEBANON NO 1	666,893	9,661	65%
368 GRIZZLY-SUMMER LAKE NO 1	14,204,156	18,486	43%
369 GRIZZLY-SUMMER LAKE NO 1 (CROOK CO)	108,228	-	43%
370 GRIZZLY-SUMMER LAKE NO 1 (DESCHUTES CO)	127,891	-	43%
371 GRIZZLY-SUMMER LAKE NO 1 (LAKE CO)	255,806	-	43%
372 GROUSE CREEK LINE AND SUB	1,852,538	-	94%
373 HANFORD-WAUTOMA NO 1	3,063,563	3,428	
374 HANFORD-WAUTOMA NO 1, ML BENTON CO	235,126	-	
375 HANFORD-WAUTOMA NO 2	2,601,240	2,607	
376 HANFORD-WAUTOMA NO 2, ML BENTON CO	249,603	-	
377 HARRISBURG TAP TO ALBANY-EUGENE NO 1	15,159	134	
378 HARVALUM-BIG EDDY NO 1	4,359,112	4,089	
379 HARVALUM-BIG EDDY NO 1 (ML WASCO CO)	6,089,225	-	
380 HAT ROCK TAP TO MCNARY-WALLULA	117,346	579	
381 HATTON TAP TO CONNELL TAP	1,087,752	7,183	
382 HATWAI-DWORSHAK NO 1	6,688,529	12,356	
383 HAWKINS-ALVEY NO 1	581,694	3,005	
384 HEBO TAP TO BOYER-TILLAMOOK NO 1	1,872	114	
385 HEDGES TAP TO FRANKLIN-BADGER CANYON NO 2	197,981	382	
386 HEYBURN-ADELAIDE NO 1	3,963,222	10,207	
387 HIDEAWAY TAP TO HAWKINS-ALVEY NO 1	505	488	
388 HILLS CREEK-LOOKOUT POINT NO 1	1,390,969	35,316	81%

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	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
389	HILLTOP-WARNER NO 1	4,850,007	6,531	
390	HOLCOMB TAP TO CHEHALIS-RAYMOND NO 1	343,953	209	
391	HOLCOMB-NASELLE NO 1	3,481,823	17,578	
392	HOOD RIVER-THE DALLES NO 1	3,510,869	8,286	
393	HORN BUTTE TAP TO BOARDMAN-ALKALI NO 1	339,950	86	
394	HORSE HEAVEN-HARVALUM NO 1	773,114	15,129	
395	HORSE RANCH TAP TO MONROE-SNOHOMISH NO 1&2	297,055	-	
396	HOT SPRINGS 500-230KV TIE NO 1	37,012	479	
397	HOT SPRINGS-RATTLESNAKE NO 1	7,568,860	118,563	
398	HUNGRY HORSE-COLUMBIA FALLS NO 1	4,979,851	1,672	
399	HUNGRY HORSE-CONKELLEY NO 1	981,905	2,705	
400	ICE HARBOR-FRANKLIN NO 2	554,825	803	97%
401	ICE HARBOR-FRANKLIN NO 3	1,331,565	1,093	91%
402	JACKSON TAP TO CANAL-SECOND LIFT NO. 2	54,669	43	
403	JOHN DAY-BIG EDDY NO 2	5,433,041	2,491	
404	JOHN DAY-BIG EDDY NO 2 ML SHERMAN CO	-	-	
405	JOHN DAY-BIG EDDY NO 2 ML WASCO CO	-	-	
406	JOHN DAY-MARION NO 1	18,300,579	70,053	
407	JONES CANYON-SANTIAM NO 1	5,460,611	56,219	
408	JUNCTION CITY TAP TO ALBANY-EUGENE NO 1	2,182	45	
409	KALISPELL-KERR NO 1	30,975,940	22,148	
410	KEELER-ALLSTON NO 1	5,141,827	19,424	
411	KEELER-FOREST GROVE NO 1	1,647,118	4,608	
412	KEELER-FOREST GROVE NO 1 ML WASHINGTON CO	3,281,131	-	
413	KEELER-FOREST GROVE NO 2	807,711	2,592	
414	KEELER-OREGON CITY NO 2	2,623,870	7,936	
415	KELLER TAP TO GRAND COULEE-OKANOGAN NO 2	5,276,156	11,519	
416	KENNEWICK TAP TO FRANKLIN-BADGER CANYON NO 2	38,892	1,193	
417	KERR BPA-KERR MVP NO 1	51,424	425	
418	KITSAP-BANGOR NO 1	637,130	6,325	
419	KITSAP-STATION X NO 1	297,208	8,363	
420	KLONDIKE SCHOOLHOUSE-JOHN DAY NO 1	9,759,776	1,365	
421	KNIGHT-OSTRANDER NO 1	3,544,998	27,400	
422	LA PINE-FORT ROCK NO 1 ML DESCHUTES CO	78,561	-	
423	LANCASTER-NOXON NO 1	6,441,880	30,415	
424	LANE-WENDSON NO 1	47,503,740	29,961	
425	LANE-WENDSON NO 2	2,305,561	24,835	
426	LANGLOIS TAP TO BANDON-ROGUE NO 1	26,655	1,499	
427	LAPINE-CHILOQUIN NO 1	6,444,977	22,409	
428	LAPINE-FORT ROCK NO 1	8,158,782	10,214	
429	LATHAM TAP TO ALVEY-MARTIN CREEK NO 1	1,513,988	1,844	
430	LEXINGTON-DELAMETER NO 1 (RETIRED)	10,450	-	
431	LEXINGTON-LONGVIEW NO 1	1,469,382	8,895	
432	LEXINGTON-LONGVIEW NO 2	803,448	3,066	
433	LEXINGTON-LONGVIEW NO 2 (ML COWLITZ CO)	979,286	-	
434	LIBBY-BONNERS FERRY NO 1	28,297,433	60,358	
435	LIBBY-CONKELLEY NO 1	9,863,892	38,632	
436	LITTLE GOOSE-CENTRAL FERRY NO 2	11,183,170	2,818	
437	LITTLE GOOSE-LOWER GRANITE NO 1	8,795,905	18,295	
438	LITTLE GOOSE-LOWER GRANITE NO 2 ML COLUMBIA	158,860	-	
439	LITTLE GOOSE-LOWER GRANITE NO 2 ML GARFIELD	360,082	-	
440	LITTLE GOOSE-LOWER GRANITE NO 2 ML WHITMAN	10,591	-	
441	LONGVIEW-ALLSTON NO 1	333,525	1,351	
442	LONGVIEW-ALLSTON NO 2	69,437	1,120	
443	LONGVIEW-ALLSTON NO 3	2,042,062	2,277	
444	LONGVIEW-ALLSTON NO 4	1,238,208	12,224	
445	LONGVIEW-BAKERS CORNER (COWLITZ PUD LINE)	383,428	36	
446	LONGVIEW-CHEHALIS NO 1 & 3 (LONGVIEW-CHEHALI	2,362,307	200,999	
447	LONGVIEW-CHEHALIS NO 1 & 3 (LONGVIEW-CHEHALIS NO 1 SECTION)	1,598,526	93,780	
448	LONGVIEW-COWLITZ NO 1	597,381	1,393	
449	LONGVIEW-WASHINGTON WAY NO 1	629,897	-	
450	LOOKOUT POINT-ALVEY NO 1	1,200,845	9,418	
451	LOOKOUT POINT-ALVEY NO 2	1,064,943	7,003	
452	LOST RIVER-SPAR CANYON NO 1	5,548,915	26,563	
453	LOWER GRANITE-HATWAI NO 1	8,692,113	33,840	
454	LOWER GRANITE-HATWAI NO 1 (NEZ PERCE CO)	31,957	-	

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	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
455	LOWER GRANITE-HATWAI NO 1 (WHITMAN CO)	28,395	-	
456	LOWER MONUMENTAL-ASHE NO 1	11,094,886	31,147	
457	LOWER MONUMENTAL-HANFORD NO 1	5,699,847	26,617	
458	LOWER MONUMENTAL-HANFORD NO 1 ML BENTON	103,974	-	
459	LOWER MONUMENTAL-HANFORD NO 1 ML FRANKLIN	639,837	-	
460	LOWER MONUMENTAL-HANFORD NO 1 ML GRANT	47,988	-	
461	LOWER MONUMENTAL-HANFORD NO 1 ML WALLA WALLA	7,998	-	
462	LOWER MONUMENTAL-LITTLE GOOSE NO 1	3,144,903	8,100	
463	LOWER MONUMENTAL-LITTLE GOOSE NO 1 ML COLUMB	28,937	-	
464	LOWER MONUMENTAL-LITTLE GOOSE NO 1 ML GARFIELD	231,498	-	
465	LOWER MONUMENTAL-LITTLE GOOSE NO 1 ML WHITMA	101,281	-	
466	LOWER MONUMENTAL-LITTLE GOOSE NO 2	3,305,144	4,888	
467	LOWER MONUMENTAL-LITTLE GOOSE NO 2 (WALLA WALLA CO)	760,467	-	
468	LOWER MONUMENTAL-MCNARY NO 1	8,812,515	24,344	
469	LOWER MONUMENTAL-MCNARY NO 1 ML UMATILLA CO	-	-	
470	LOWER MONUMENTAL-MCNARY NO 1 ML WALLA WALLA	1,834,783	-	
471	LYNCH CREEK TAP TO CANYON-LAGRANDE NO 1,2	1,053,417	4,809	
472	MACKS INN-MADISON NO 1	3,855,759	15,926	
473	MALIN-HILLTOP NO 1	7,407,826	35,087	
474	MAPLE VALLEY-DUWAMISH NO 1	204,996	2,269	
475	MAPLE VALLEY-MASSACHUSETTS NO 1	23,317	737	
476	MARION-ALVEY NO 1	6,046,722	11,868	
477	MARION-LANE NO 1	10,952,390	22,660	50%
478	MARION-SANTIAM NO 1	619,487	378	
479	MARTIN CREEK TAP TO ALVEY-FAIRVIEW NO 1	11,094	259	
480	MARTIN CREEK-DRAIN NO 1	1,417,348	19,683	
481	MAUPIN-ANTELOPE TRANSMISSION LINES & SUBSTATION	617,493	-	
482	MAUPIN-TYGH VALLEY NO 1	4,283,115	1,001	
483	MCCULLOUGH TAP TO COWLITZ-LAGRANDE NO 1,2	459,238	6,500	
484	MCNARY-BADGER CANYON NO 1	2,694,246	7,185	
485	MCNARY-BADGER CANYON NO 1 ML BENTON CO, WA	5,106,907	-	
486	MCNARY-COYOTE SPRINGS NO 1	2,077,323	5,301	
487	MCNARY-FRANKLIN NO 2	2,047,431	12,796	
488	MCNARY-HORSE HEAVEN NO 1	13,284,119	4,035	
489	MCNARY-JOHN DAY NO 2	136,530,983	41,810	
490	MCNARY-JONES CANYON NO 1 (ML UMATILLA CO)	245,286	-	
491	MCNARY-MORROW FLAT NO 1	5,971,604	3,376	
492	MCNARY-MORROW FLAT NO 2	6,738,000	1,821	
493	MCNARY-ROSS NO 1	18,005,328	64,227	
494	MCNARY-ROUNDUP NO 1	1,694,134	18,455	
495	MCNARY-SANTIAM NO 1	6,147,463	3,251	
496	MIDWAY-BENTON NO 1	3,567,088	37,190	
497	MIDWAY-BENTON NO 1 (ML)	13,270,389	-	
498	MIDWAY-BENTON NO 2	1,944,282	5,878	
499	MIDWAY-GRANDVIEW NO 1	13,737,561	38,867	
500	MIDWAY-MOXEE NO 1	16,537,470	26,413	
501	MIDWAY-POTHOLE NO 1	765,882	10,999	
502	MIDWAY-ROCKY FORD NO 1	1,620,448	25,288	
503	MIDWAY-VANTAGE NO 1	9,948,980	15,555	
504	MILTON TAP TO WALLA WALLA-PENDLETON NO 1	2,196,321	1,673	
505	MINIDOKA PH-UNITY NO 1	2,310,227	51,131	
506	MINIDOKA SUB TAP TO DUFN43	1,099,937	-	
507	MIST TAP TO ALLSTON-DRISCOLL NO 2	9,302	456	
508	MONROE-CUSTER NO 1	25,472,348	47,738	
509	MONROE-CUSTER NO 1 ML SKAGIT CO	365,246	-	
510	MONROE-CUSTER NO 1 ML SNOHOMISH CO	474,819	-	
511	MONROE-CUSTER NO 1 ML WHATCOME CO	377,421	-	
512	MONROE-CUSTER NO 2	14,762,295	37,941	
513	MONROE-NOVELTY HILL NO.1	1,736,161	1,357	
514	MONROE-SNOHOMISH NO 1 & 2 (MONROE-SNOHOMISH NO 1 SECTION)	402,267	2,059	
515	MONROE-SNOHOMISH NO 1 & 2 (MONROE-SNOHOMISH NO 1 SECTION)	1,024,027	-	
516	MONROE-SNOHOMISH NO 1 & 2 (MONROE-SNOHOMISH NO 2 SECTION)	164,312	1,824	
517	MORROW FLAT-BOARDMAN NO 1	3,073,848	201	
518	MORROW FLAT-JONES CANYON NO 1	2,648,061	2,829	
519	MOSSYROCK-CHEHALIS NO 1	2,226,704	10,616	
520	MOUNTAIN AVENUE TAP TO (PACIFICORP) ASHLAND-OAK KNOLL	699,915	1,377	

**Appendix A**  
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	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
521	MOXEE-ROZA NO 1	23,832	9,584	
522	MT SI-TANNER NO 1	6,319,376	2,588	
523	MT. VERNON TAP TO LOOKOUT POINT-ALVEY NO 2	68,601	1,139	
524	MURRAY-CUSTER NO 1	4,617,482	15,812	
525	NAPAVINE-ALLSTON NO 1	9,028,892	9,224	
526	NAPAVINE-ALLSTON NO 1 ML COLUMBIA CO-DO NOT USE	35,702	-	
527	NAPAVINE-ALLSTON NO 1 ML COWLITZ CO	267,769	-	
528	NAPAVINE-ALLSTON NO 1 ML WASHINGTON CO-DO NOT USE	291,571	-	
529	NASELLE-TARLETT NO 1	4,135,346	27,205	
530	NASELLE-TARLETT NO 2	4,906,181	1,818	
531	NESPELEM TAP TO GRAND COULEE-OKANOGAN	579	-	
532	NINE MILE TAP TO FRANKLIN-WALLA WALLA NO 1	40,788	124	
533	NORTH BONNEVILLE-MIDWAY NO 1	11,220,603	31,192	
534	NORTH BONNEVILLE-ROSS NO 1	2,635,550	13,435	
535	NORTH BONNEVILLE-ROSS NO 2	1,843,674	27,276	
536	NORTH BONNEVILLE-TROUTDALE NO 1	2,888,783	7,602	
537	NORTH BONNEVILLE-TROUTDALE NO 2	3,294,452	5,684	
538	NORTH CAMAS-OAK PARK NO 1	342,615	608	
539	NORTH CAMAS-SIFTON NO 1	357,536	2,476	
540	NORTH MOUNTAIN-SNOHOMISH NO 1	224,683	456	
541	NOXON-HOT SPRINGS NO 1	3,068,101	15,624	
542	NOXON-LIBBY NO 1	3,946,822	25,252	
543	OLYMPIA 500-230 TIE LINE 1 ML THURSTON CO	992,129	-	
544	OLYMPIA-GRAND COULEE NO 1	27,141,993	95,488	
545	OLYMPIA-KITSAP NO 3	3,550,753	560	
546	OLYMPIA-KITSAP NO 3 ML MASON CO	889,265	-	
547	OLYMPIA-KITSAP NO 3 ML THURSTON CO	168,820	-	
548	OLYMPIA-SATSOP NO 2	3,893,068	15,880	
549	OLYMPIA-SATSOP NO 3	4,021,560	943	
550	OLYMPIA-SHELTON NO 1	403,134	13,330	
551	OLYMPIA-SHELTON NO 2	2,252,149	9,366	
552	OLYMPIA-SHELTON NO 3	2,055,537	11,225	
553	OLYMPIA-SHELTON NO 3 ML MASON CO	1,250,399	-	
554	OLYMPIA-SHELTON NO 4	1,943,388	4,528	
555	OLYMPIA-SHELTON NO 4 ML MASON CO	1,250,399	-	
556	OLYMPIA-SHELTON NO 5	292,541	7,152	
557	OLYMPIA-SHELTON NO 5 ML MASON CO	5,617,309	-	
558	OLYMPIA-SHELTON NO 5 ML THURSTON CO	2,938,476	-	
559	OLYMPIA-SOUTH ELMA NO 1	1,322,120	18,560	
560	OLYMPIA-ST CLAIR NO 1	10,977,501	3,842	
561	OREGON CITY-CANBY PGE NO 1	527,790	981	
562	OREGON CITY-CHEMAWA NO 1	35,890	-	
563	OREGON CITY-CHEMAWA NO 2	3,233,818	135,263	
564	OSTRANDER-MCLOUGHLIN NO 1	1,415,214	3,894	
565	OSTRANDER-PEARL NO 1	1,993,564	17,946	
566	OSTRANDER-TROUTDALE NO 1	6,217,653	10,767	
567	OSTRANDER-TROUTDALE NO 1 (ML CLACKACMAS CO)	1,743,312	-	
568	OSTRANDER-TROUTDALE NO 1 (ML MULTNOMAH CO)	1,296,472	-	
569	PALISADES-CATTLE CREEK NO 1	7,643,567	16,336	
570	PALISADES-CATTLE CREEK NO 1 ML BONNEVILLE CO	15,565,180	-	
571	PALISADES-SWAN VALLEY NO 1	10,743,440	24,888	
572	PALISADES-TINCUP 115KV TRANSMISSION LINE	1,335,659	-	
573	PARKER TAP TO EUGENE-ALDERWOOD NO 1	9,970	137	
574	PAUL D. JOHNSON TAP TO ROSS-VANCOUVER SHIPYARD NO. 1	180,120	24	
575	PAUL-ALLSTON NO 2	9,856,889	23,009	
576	PAUL-NAPAVINE NO 1	1,699,815	1,729	
577	PAUL-OLYMPIA NO 1	3,514,676	9,798	
578	PAUL-SATSOP NO 1	30,139,100	38,413	
579	PEARL-KEELER NO 1	2,197,930	9,193	
580	PEARL-MARION NO 1	4,559,012	22,695	
581	PEARL-MARION NO 1 ML CLACKAMAS CO	295,852	-	
582	PEARL-MARION NO 1 ML MARION CO	899,518	-	
583	PEARL-SHERWOOD NO. 1 & 2 (PEARL-SHERWOOD NO 1 SECTION)	751,728	1,543	
584	PEARL-SHERWOOD NO. 1 & 2 (PEARL-SHERWOOD NO 2 SECTION)	751,728	19	
585	PILOT BUTTE-LA PINE NO 1	3,624,085	22,138	
586	PIONEER-ALCOA NO 1	36,090	29	

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	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
587	POMEROY TAP TO TUCANNON RIVER-NORTH LEWISTON NO 1	29,550		234
588	PONDEROSA-PILOT BUTTE NO 1	5,666,359	14,144	
589	PORT ANGELES-SAPPHO NO 1	3,324,096	62,002	
590	POTHOLES-GRAND COULEE NO 1	1,509,479	15,005	
591	POTLATCH TAP TO SHELTON-FAIRMOUNT NO 1	6,824	1,556	
592	POWERLINE TAPS TO DIAMOND HILL-COBURG	81,433	-	
593	PRIEST RIVER TAP TO ALBENI FALLS-SAND CREEK NO 1	343,556	4,286	
594	PROSSER TAP TO GRANDVIEW-RED MOUNTAIN NO 1	720,575	7,014	
595	QUENETT CREEK-CHENOWETH NO 1	237,454	-	
596	QUENETT CREEK-CHENOWETH NO 2	56,331	22	
597	RADAR TAP (USBR) TO SCOOTENEY TAP	65,675	2,285	
598	RAINBOW VALLEY TAP TO LANE-WENDSON NO 1	495,382	2,307	
599	RALSTON TAP TO EAST COLFAX-LIND	532,216	2,031	
600	RATTLESNAKE-GARRISON NO 1	2,412,966	71,040	
601	RAVER TAP TO SCHULTZ-ECHO LAKE NO 1	922,569	612	
602	RAVER-COVINGTON NO 1	2,978,667	3,984	
603	RAVER-COVINGTON NO 2	1,295,592	6,338	
604	RAVER-ECHO LAKE NO 1	2,190,125	6,649	
605	RAVER-PAUL NO 1	13,549,432	53,755	
606	RAVER-PAUL NO 1 ML KING CO	182,765	-	
607	RAVER-PAUL NO 1 ML LEWIS CO	86,573	-	
608	RAVER-PAUL NO 1 ML PIERCE CO	461,723	-	
609	RAVER-PAUL NO 1 ML THURSTON CO	230,862	-	
610	RAYMOND-COSMOPOLIS NO 1	10,746,393	7,907	
611	RAYMOND-HENKLE ST. NO 1	416,305	3,235	
612	RAYMOND-WILLAPA RIVER NO 1	844,844	3,317	
613	RED MOUNTAIN-RICHLAND NO 1	452,540	2,175	
614	RED MOUNTAIN-WHITE BLUFFS NO 1	1,591,715	5,099	
615	REDMOND SUBSTATION 230/115KV TIE NO 1	315,227	152	
616	REDMOND-BRASADA NO 1	299,750	5,058	
617	REDMOND-PILOT BUTTE NO 1	852,864	17,738	
618	REEDSPORT-FAIRVIEW NO 1	9,182,315	47,741	
619	RESTON-FAIRVIEW NO 2	2,447,020	12,105	
620	RIVERGATE-KEELER NO 1 & 2 (RIVERGATE-KEELER NO 1 SECTION)	512,780	241	
621	RIVERLAND-MIDWAY NO 1	21,591	1,180	
622	ROCK CREEK-JOHN DAY NO 1	6,097,654	2,379	
623	ROCK CREEK-JOHN DAY NO 1 ML KLUCKITAT CO	-	-	
624	ROCK CREEK-JOHN DAY NO 1 ML SHERMAN CO	-	-	
625	ROCKY FORD-GRAND COULEE NO 1	1,627,129	4,777	
626	ROCKY REACH-COLUMBIA NO 1	1,231,827	26,320	
627	ROCKY REACH-MAPLE VALLEY NO 1	16,601,625	154,650	
628	ROE'S CORNER TAP TO HEYBURN-ADELAIDE NO 1	1,116,651	2,521	
629	ROGUE-GOLD BEACH NO 1	4,770,447	3,847	
630	ROGUE-GOLD BEACH NO 2	4,840,521	18,318	
631	ROSS-ALCOA 2&4 (ROSS-ALCOA NO 1 SECTION)	31,213	638	
632	ROSS-ALCOA NO 2 & 4 (ROSS-ALCOA NO 2 SECTION)	136,560	96	
633	ROSS-ALCOA NO 3	1,252,366	371	
634	ROSS-ALCOA TIE LINE	15,956	-	
635	ROSS-CARBORUNDUM NO 1	212,703	1,168	
636	ROSS-LEXINGTON NO 1	2,988,768	71,707	
637	ROSS-RIVERGATE NO 1	558,459	2,753	
638	ROSS-ST JOHNS NO 1	1,623,571	3,928	
639	ROSS-VANCOUVER SHIPYARD NO 1	594,667	2,684	
640	ROUNDUP-LAGRANDE NO 1	2,889,951	31,825	
641	SACAJAWEA TAP TO ICE HARBOR-FRANKLIN NO 2	217,457	655	
642	SACAJAWEA TAP TO LOWER MONUMENTAL-MCNARY NO 1	2,175,620	2,736	
643	SACHEEN-ALBENI FALLS NO 1	1,201,168	11,669	
644	SALEM-ALBANY NO 1	25,643,327	9,733	
645	SALEM-ALBANY NO 2	19,366,792	7,482	
646	SALEM-GRAND RONDE NO 1	5,515,895	10,422	
647	SAMMAMISH-MAPLE VALLEY NO 1	1,801,866	1,370	
648	SAND CREEK-BONNERS FERRY NO 1 & 2(SAND CREEK-BF NO 2 SECT)	6,647,798	3,638	
649	SAND CREEK-BONNERS FERRY NO. 1 & 2 (SAND CREEK-BF NO 1 SECT)	6,669,001	15,122	
650	SANTIAM SUBSTATION TRANSF BAY TAP TO SANTIAM-ALBANY NO 1	2,323,017	168	
651	SANTIAM-ALBANY NO 1	1,911,213	11,558	
652	SANTIAM-ALVEY 1 & 2, S-A 1 SECT	3,339,901	25,875	



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	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
653	SANTIAM-ALVEY 1 & 2, S-A 2 SECT	2,987,966	12,700	
654	SANTIAM-BETHEL NO 1	12,617,338	1,928	
655	SANTIAM-CHEMAWA NO 1	3,463,395	6,447	
656	SANTIAM-TOLEDO NO 1	4,445,929	25,222	
657	SANTIAM-TOLEDO NO 1 ML BENTON CO	3,933,508	-	
658	SATSOP PARK-COSMOPOLIS NO 1	1,411,837	14,375	
659	SATSOP-ABERDEEN NO 2	5,398,614	8,364	
660	SATSOP-ABERDEEN NO 3	2,402,175	7,933	
661	SATSOP-SHELTON NO 1 ML MASON CO	5,606,724	-	
662	SATSOP-SHELTON NO 1 ML THURSTON CO	2,938,508	-	
663	SCHRAG TAP TO RUFF-WARDEN	765,888	2,524	
664	SCHULTZ-ECHO LAKE NO 1	65,603,696	29,823	
665	SCHULTZ-RAVER NO 1	29,718,735	25,066	
666	SCHULTZ-RAVER NO 3	11,158,169	29,830	
667	SCHULTZ-RAVER NO 4	11,338,901	39,983	
668	SCHULTZ-WAUTOMA NO 1	95,466,530	29,158	
669	SCOOTENEY TAP TO MIDWAY-BENTON NO 1	377,939	10,455	
670	SCOOTENEY TAP TO MIDWAY-BENTON NO 1 (ML BENTON CO)	769,558	-	
671	SHELTON-FAIRMOUNT NO 1	5,423,874	61,843	
672	SHELTON-FAIRMOUNT NO 1 (JEFFERSON CO)	448,528	-	
673	SHELTON-FAIRMOUNT NO 1 (MASON CO)	184,111	-	
674	SHELTON-FAIRMOUNT NO 2	3,987,055	21,133	
675	SHELTON-FAIRMOUNT NO 3	3,179,420	12,938	
676	SHELTON-FAIRMOUNT NO 4	2,926,202	15,223	
677	SHELTON-KITSAP NO 2	9,743,861	8,327	
678	SHELTON-KITSAP NO 3	181,839	8,074	
679	SHELTON-KITSAP NO 3 (MASON CO)	222,316	-	
680	SHELTON-KITSAP NO 4	4,172,674	7,243	
681	SHELTON-SOUTH BREMERTON NO 1	9,302,539	1,578	
682	SHULTZ-RAVER NO 4 ML KING CO	190,718	-	
683	SHULTZ-RAVER NO 4 ML KITTITAS CO	515,646	-	
684	SICKLER-SCHULTZ NO 1	11,145,747	9,766	
685	SICKLER-SCHULTZ NO 1 ML CHELAN COUNTY	144,841	-	
686	SICKLER-SCHULTZ NO 1 ML DOUGLAS COUNTY	214,363	-	
687	SICKLER-SCHULTZ NO 1 ML KITTITAS COUNTY	220,155	-	
688	SIFTON TAP TO N. BONN-ROSS 2	222,180	72	
689	SIFTON TAP TO NORTH BONNEVILLE-ROSS NO 1	222,180	298	
690	SIFTON-AST NO 1	55,704	732	
691	SIFTON-LACAMAS NO 1	354	553	
692	SIFTON-ROSS NO 1	356,952	3,944	
693	SILVERADO TAP TO PORT ANGELES-SAPPHO NO 1	458,627	2,307	
694	SLATT-BUCKLEY NO 1	21,181,550	14,787	
695	SLATT-JOHN DAY NO 1	4,358,495	21,447	
696	SLATT-JOHN DAY NO 1 ML GILLIAM CO	251,354	-	93%
697	SLATT-JOHN DAY NO 1 ML SHERMAN CO	187,309	-	93%
698	SNOHOMISH-BEVERLY PARK NO 3	484,991	1,214	
699	SNOHOMISH-BEVERLY PARK NO 4	526,538	1,455	
700	SNOHOMISH-BOTHELL NO 1	1,049,558	8,002	
701	SNOHOMISH-BOTHELL NO 2	148,752	1,254	
702	SNOHOMISH-EVERETT	579,766	6,619	
703	SNOHOMISH-MURRAY NO 1	684,009	4,918	
704	SNOHOMISH-PUD NO 9	4,154,080	582	
705	SNOHOMISH-PUD NO. 8	2,377,231	536	
706	SNO-KING TAP TO ECHO LAKE-MONROE NO 1	5,042,814	20,063	
707	SNO-KING-MAPLE VALLEY NO 1	1,845,243	987	
708	SNO-KING-MAPLE VALLEY NO. 2	673,519	144	
709	SOUTH ELMA-SATSOP PARK NO 1	260,092	8,114	
710	SOUTH FORK TAP TO FOREST GROVE-TILLAMOOK NO 1	9,989	-	
711	SOUTH TACOMA-SOUTHWEST NO 1	1,862,530	8,080	
712	SOUTH TACOMA-WHITE RIVER NO 1	339,175	6,847	
713	SPAR CANYON - ROUND VALLEY	2,279,742	7,355	
714	SPEARFISH TAP TO CHENOWETH-GOLDENDALE NO 1	1,539,494	1,902	
715	SPIRIT TAP TO COLVILLE-BOUNDARY NO 1	994,448	2,152	
716	SPRING CREEK-WINE COUNTRY NO 1	3,850,516	9,270	
717	ST CLAIR-SOUTH TACOMA NO 1	197,001	-	
718	ST HELENS-ALLSTON NO 1	5,750,334	12,274	

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	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
719	ST JOHNS TAP TO KEELER-OREGON CITY NO 2	2,120	-	
720	ST JOHNS-KEELER NO 2	1,015,240	2,332	
721	ST JOHNS-ST HELENS NO 1	2,318,752	8,226	
722	STARVATION RIDGE TAP TO BRASADA-HARNEY NO 1 ML HARNEY CO	986,295	-	
723	SWAN VALLEY-GOSHEN NO 1	4,307,957	23,370	
724	SWAN VALLEY-TETON NO 1	3,328,159	24,376	
725	SWAN VALLEY-TETON NO 2	20,108,821	19,001	
726	SWIFT TAP TO ROSS-LEXINGTON NO 1	17,434	738	
727	T3BA'DAS TAP TO SHELTON-FAIRMONT NO 2 (MASON COUNTY PUD)	423,156	42	
728	TACOMA-COVINGTON NO 2	1,907,335	7,374	
729	TACOMA-COVINGTON NO 3	1,240,294	6,976	
730	TACOMA-COVINGTON NO 4	1,240,294	2,931	
731	TACOMA-RAVER NO 1&2 (NO 1 SECTION)	4,567,297	16,098	
732	TACOMA-RAVER NO 1&2 (NO 2 SECTION)	2,332,326	13,820	
733	TAFT-BELL NO 1	84,342,970	52,686	
734	TAFT-HOT SPRINGS NO 1	12,282,621	67,213	
735	TAHKENITCH-GARDINER NO 1	692,879	1,626	
736	TAHKENITCH-REEDSPORT NO 1	727,604	11,115	
737	TARGHEE TAP TO SWAN VALLEY-TETON NO 1	962,039	45,730	
738	TARGHEE-DRUMMOND NO 1	114,986	66,970	
739	TARGHEE-MACK'S INN TRANSMISSION LINES & SUBSTATION	427,739	-	
740	THATCHER JUNCTION TAP TO FOREST GROVE-TILLAMOOK NO 1	1,689	-	
741	THE DALLES-DISCOVERY NO 1	221,839	1,314	
742	THURSTON-MCKENZIE NO 1	2,435,522	2,482	
743	TILLAMOOK-TRASK RIVER NO 1	358,808	87	
744	TIMBER TAP	29,500	-	
745	TIMBER TAP TO FOREST GROVE-TILLAMOOK NO 1	3,109,614	14,467	
746	TOLEDO-WENDSON NO 1	8,499,216	43,776	
747	TOWER ROAD-ALKALI NO 1	430,310	981	
748	TRENTWOOD-VALLEY WAY NO 1	394,377	2,708	
749	TROJAN-ALLSTON NO 1	1,595,833	2,019	
750	TROJAN-ALLSTON NO 2	1,584,040	1,045	
751	TUCANNON RIVER-NORTH LEWISTON NO 1	11,818,725	17,410	
752	UNDERWOOD TAP TO BONN-NC 1 & BONN-A 2, BONN-ALCOA TO STR 1	748,295	10,969	
753	UNDERWOOD TAP TO BONN-NC 1 & BONN-A 2, BONN-NC 1 TO UNDRW S	791,603	6,249	
754	UNITY-HEYBURN NO 1	560,894	4,542	
755	UNITY-WEST BURLEY NO 1	1,935,463	7,165	
756	USK-BOUNDARY NO 1	2,185,268	10,903	
757	VANTAGE-COLUMBIA NO 1	1,200,991	25,891	
758	VANTAGE-HANFORD NO 1	30,549	7,483	
759	VANTAGE-HANFORD NO 1 ML BENTON CO	399,903	-	
760	VANTAGE-HANFORD NO 1 ML GRANT CO	8,161	-	
761	VANTAGE-SCHULTZ NO 1	5,194,512	10,074	
762	VANTAGE-SCHULTZ NO 1 ML KITTAS	42,824	-	
763	VERA TAP TO TRENTWOOD-VALLEY WAY NO 1	6,028,914	2,130	
764	VICTOR TAP TO TARGHEE TAP	96,996	174	
765	WAGNER LAKE TAP TO WILBUR TAP	441,963	3,609	
766	WALLA WALLA-FREEWATER	1,331,932	1,745	
767	WALLA WALLA-PENDLETON NO 1	4,403,076	14,411	
768	WALLA WALLA-TUCANNAN RIVER NO 1 ML WALLA WALLA CO	8,158,757	-	
769	WALLA WALLA-TUCANNON RIVER NO 1	5,535,869	15,928	
770	WALLA WALLA-TUCANNON RIVER NO 1 ML COLUMBIA CO	7,659,312	-	
771	WAUNA-DRISCOLL NO 1	22,614	169	
772	WAUTOMA-KNIGHT NO 1	40,667,084	57,655	
773	WAUTOMA-OSTRANDER NO 1 ML KLICKITAT CO	428,957	-	
774	WAUTOMA-OSTRANDER NO 1 ML SKAMANIA CO	584,941	-	
775	WAUTOMA-OSTRANDER NO 1 ML YAKIMA CO	2,546,675	-	
776	WAUTOMA-ROCK CREEK NO 1	8,615,764	18,639	
777	WAUTOMA-ROCK CREEK NO 1 ML BENTON CO	94,912	-	
778	WAUTOMA-ROCK CREEK NO 1 ML KLICKITAT CO	322,701	-	
779	WAUTOMA-ROCK CREEK NO 1 ML YAKIMA CO	531,508	-	
780	WENDSON-TAHKENITCH NO 1	4,286,591	16,788	
781	WENDSON-TAHKENITCH NO 2	2,980,101	18,863	
782	WEST BURLEY-HEYBURN NO. 1 (FOREIGN OWNED)	59,664	5,805	
783	WESTSIDE (AVA)-BELL NO 1	187,683	469	
784	WESTSIDE AVA-BELL NO 1 (SPOKANE CO)	877,408	0	

**Appendix A**  
**BP-22 Rate Case Final Proposal Segmentation Details**

A	B	C	D
785 WHITE BLUFFS-451B NO 1	1,025,555	967	
786 WHITE BLUFFS-RICHLAND NO 1	1,722,924	4,157	
787 WILLOW CREEK-HAWKINS #1	492,033	361	
788 WINE COUNTRY-MIDWAY NO 1	2,763,766	4,959	
789 WINTHROP-TWISP NO 1	859,367	7,421	
790 WNP1-ASHE NO 2	76,075	3,180	
<b>791 Subtotal Lines</b>	<b><u>3,363,715,481</u></b>	<b><u>8,454,671</u></b>	
<b>Stations</b>	<b>Investment (\$)</b>	<b>O&amp;M (\$)</b>	<b>Multi %</b>
792 ABERDEEN SUBSTATION	6,878,681	202,502	
793 ACORD SUBSTATION (BENTON REA)	22,142	256	
794 ACTON SUBSTATION	197,084	17,025	82%
795 ADAIR SUBSTATION(BPA)	814,402	24,368	
796 ADDY SUBSTATION	10,684,398	103,653	90%
797 AFTON COGENERATION POWER PLANT	8,654	-	
798 AHSAHKA SUBSTATION	22,139	12,894	
799 AIRPORT SUBSTATION (CONSUMER'S POWER, INC)	307,505	384	
800 AIRWAY HEIGHTS SUBSTATION	27,894	295	
801 ALBANY SUBSTATION	14,281,668	142,161	88%
802 ALBENI FALLS SUBSTATION	1,096,932	19,142	75%
803 ALCOA SUBSTATION	9,479,422	226,777	95%
804 ALDER METERING POINT	27,765	66	
805 ALDERWOOD SUBSTATION	93,977	498,873	
806 ALFALFA SUBSTATION	4,713,041	39,467	
807 ALKALI SUBSTATION	61,692	232	
808 ALLSTON SUBSTATION	54,181,313	387,666	
809 ALTURAS SUBSTATION	21,364	355	
810 ALVEY SUBSTATION	61,643,090	314,144	88%
811 AMES LAKE SUBSTATION	30,075	934	
812 ANGUS SUBSTATION (BENTON CO PUD)	124,041	975	
813 ANTELOPE SUBSTATION(WASCO ELECTRIC)	24,432	266	
814 APPLEWAY SUBSTATION	18,816	12	
815 ARCO SUBSTATION(LOST RIVER ELECTRIC)	242,476	-	
816 ARCO SUBSTATION(UTAH POWER & LIGHT)	32,413	2,141	
817 ARIEL SUBSTATION	35,332	643	
818 ARM RELIFT SUBSTATION	8,900	-	
819 ARMSTRONG SUBSTATION(INLAND POWER & LIGHT)	8,286	436	
820 ARTONDALE SUBSTATION	88,106	1,785	
821 ASHE SUBSTATION	42,298,923	499,052	92%
822 ASHLAND SUBSTATION	85,217	194	
823 ATHOL SUBSTATION(KOOTENAI ELEC COOP)	51,772	447	
824 AUSTIN SWITCHYARD	13,635	806	
825 AUVIL FRUIT COMPANY METERING POINT	22,761	232	
826 BADGER CANYON SUBSTATION	6,163,451	46,071	
827 BALD MOUNTAIN SUBSTATION	4,427,500	48,422	
828 BANDON SUBSTATION	3,817,100	58,451	67%
829 BANGOR SUBSTATION	67,321	1,504	
830 BANNACK SUBSTATION	147,707	672	
831 BARRETT'S SUBSTATION(VIGILANTEELECTRIC)	28,520	-	
832 BAXTER SUBSTATION(SOLD)	15,519	652	
833 BEACON SUBSTATION	1,931	-	
834 BEAVER BAY SUBSTATION (COWLITZ PUD)	24,843	571	
835 BEAVER SUBSTATION (PGE)	44,542	3,031	
836 BEAVER SUBSTATION(TILLAMOOK PUD)	61,093	1,624	
837 BECK ROAD SUBSTATION	20,710	263	
838 BELFAIR SUBSTATION(MASON CO PUD NO 3)	80,394	738	
839 BELL SUBSTATION	111,297,274	1,380,172	
840 BELLINGHAM SUBSTATION(BPA)	20,052,811	494,220	
841 BELLINGHAM SUBSTATION(PUGET SOUND ENERGY)	2,432	-	
842 BENSON SUBSTATION	79,650	1,006	
843 BENTON CITY SUBSTATION(BENTON CO PUD)	15,267	767	
844 BENTON SUBSTATION	11,282,064	119,510	
845 BERRIAN SUBSTATION	25,904	1,069	
846 BERRYDALE SUBSTATION (CLP)	36,801	591	
847 BERTELSEN SUBSTATION	58,605	108	

**Appendix A**  
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	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
848	BETHEL SUBSTATION	12,410	354	
849	BETTAS ROAD SUBSTATION	5,183,108	33,569	
850	BEVERLY PARK SUBSTATION	86,702	1,041	
851	BIG EDDY SUBSTATION	17,088,346	107,818	19%
852	BIG FORK SUBSTATION (FEC)	6,087	-	
853	BIG HORN SUBSTATION (IBERDOLA)	19,558	2,723	
854	BIG PASCO	13,215	376	
855	BIGELOW SUBSTATION (INLAND)	63,065	707	
856	BIGLOW CANYON SUBSTATION	61,573	3,719	
857	BINGEN SUBSTATION(KLICKITAT CO PUD)	82,229	2,266	
858	BLACKROCK SUBSTATION	102,477	968	
859	BLAINE SUBSTATION	128,593	448	
860	BLAKESLEE JUNCTION SWITCHING STATION	1,082,385	227	
861	BLANTON ROAD SUBSTATION	22,796	768	
862	BLUE RIVER SUBSTATION (LANE ELECTRIC)	52,879	383	
863	BOARDMAN SUBSTATION	7,897,030	109,274	
864	BONNER SUBSTATION	107,496	1,936	
865	BONNERS FERRY SUBSTATION	2,265,147	49,691	78%
866	BOOTH BEND SUBSTATION	54,322	679	
867	BOUNDARY SUBSTATION	7,827,888	123,338	
868	BOX CANYON POWERHOUSE	56,157	313	
869	BOYER SWITCHING STATION	21,947	4,595	
870	BRASADA SUBSTATION (CENTRAL ELECTRIC COOPERATIVE)	492,476	25,507	
871	BREMERTON SUBSTATION (PSE)	57,828	561	
872	BREWSTER SUBSTATION	36,031	313	
873	BRIDGE SUBSTATION	6,545,706	63,119	
874	BRIDGEPORT BAR (BOOST)	7,651	1,331	
875	BRIDGEPORT BAR (PUMP)	8,356	-	
876	BRINCKEN'S CORNER SUBSTATION	995,467	18,538	
877	BROADMOOR SUBSTATION	102,869	481	
878	BROADVIEW SUBSTATION	123,479	3,135	
879	BROOKDALE SUBSTATION(ELMHURSTMUTUAL PWR & LIGHT)	82,392	1,841	
880	BROOKDALE SUBSTATION(TACOMA PUBLIC UTILITIES)	43,391	-	
881	BUCKLEY SUBSTATION	3,984,880	73,241	36%
882	BURBANK #2 METERING POINT	10,340	-	
883	BURBANK #3 METERING POINT	9,282	-	
884	BURBANK SUBSTATION	706,630	14,736	84%
885	BURLEY SUBSTATION(CITY OF BURLEY)	85,500	888	
886	BURNT WOODS SUBSTATION	753,476	6,876	56%
887	CABINET GORGE SUBSTATION	107,250	726	
888	CALPINE SUBSTATION	313,432	7,444	
889	CANAL SUBSTATION	2,778,060	39,644	
890	CANBY SUBSTATION(BPA)	7,141,864	36,396	
891	CANBY SUBSTATION(PGE)	28,591	185	
892	CANBY SUBSTATION(SURPRISE VALLEY ELEC)	84,531	3,754	
893	CAPE HORN SUBSTATION	28,175	2,224	
894	CARDWELL SUBSTATION	3,071,970	70,982	
895	CARLIN SUBSTATION	7,918	375	
896	CARLSON SUBSTATION	29,249	-	
897	CARLTON SUBSTATION	6,294,326	84,810	
898	CARMEN POWERHOUSE	257,609	96	
899	CARSON SUBSTATION	84,798	1,585	
900	CASCADE LOCKS SUBSTATION	397,538	18,383	61%
901	CASCADE STEEL SUBSTATION	87,356	2,508	
902	CATHLAMET SUBSTATION	101,018	1,191	
903	CATTLE CREEK SWITCHING STATION	6,330,977	40,340	
904	CEDARVILLE CITY SUBSTATION	22,896	-	
905	CEDARVILLE JUNCTION SUBSTATION	1,089,534	24,132	
906	CENTRAL FERRY SUBSTATION	21,201,557	157,813	
907	CENTRALIA MINES SUBSTATION	5,778	-	
908	CENTRALIA SUBSTATION	1,680,624	30,593	
909	CENTRALIA SWITCHING STATION	176,972	9,568	
910	CENTRALIA THERMAL POWERHOUSE	15,230	1,782	
911	CHALLIS SUBSTATION	65,343	-	
912	CHEHALIS SUBSTATION	21,142,343	377,284	
913	CHELATCHIE SUBSTATION	17,442	177	

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	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
914	CHEMAWA SUBSTATION	20,631,757	405,890	
915	CHEMICAL SUBSTATION	127,756	-	
916	CHENEY SUBSTATION	2,410	418	
917	CHENOWETH SUBSTATION	18,177,523	71,593	
918	CHERRY CREEK SUBSTATION	8,426	806	
919	CHESHIRE SUBSTATION (EPUD)	152,044	925	
920	CHEVRON SUBSTATION	34,271	445	
921	CHEWELAH SUBSTATION	26,994	722	
922	CHICKEN CREEK (NESPELEM)	50,383	-	
923	CHIEF JOSEPH SUBSTATION	33,871,277	276,991	72%
924	CHRISTMAS VALLEY SUBSTATION	36,342	1,123	
925	CITY VIEW SUBSTATION	29,453	1,223	
926	CLARK SUB (UNKNOWN)	21,851	-	
927	CLARKSTON SUBSTATION	532,252	25,199	
928	CLATSKANIE SWITCHING STATION (CLATSKANIE PUD)	12,340	755	
929	CLATSOP SUBSTATION	4,321,463	102,615	
930	CLAYTON SUBSTATION	36,545	1,501	
931	CLINTON SUBSTATION (SOLD)	5,411	400	
932	COASTAL ENERGY GENERATING PLANT	10,371	1,127	
933	COCHRANE SUBSTATION	72,108	360	
934	COEUR D'ALENE 15TH STREET SUBSTATION	37,103	784	
935	COFFIN BUTTE GENERATING PLANT	99,315	1,061	
936	COLD CREEK SUBSTATION	134,981	958	
937	COLLINS LAKE SUBSTATION	15,858	-	
938	COLLINS SUBSTATION	18,228	438	
939	COLUMBIA CREST SUBSTATION	68,221	830	
940	COLUMBIA FALLS SUBSTATION -- 115 YARD	3,654,387	117,353	
941	COLUMBIA FALLS SUBSTATION - 230 KV YARD	14,973,621	41,071	
942	COLUMBIA SUBSTATION	34,321,556	276,165	
943	COLVILLE SUBSTATION	4,151,056	69,782	
944	COMBINE HILLS II SUBSTATION (EURUS EGY)	47,138	12,147	
945	CONDON SUBSTATION	41,086	545	
946	CONDON WIND SUBSTATION(SEAWEST)	72,793	16,239	
947	CONKELLEY SUBSTATION	9,486,979	117,121	
948	CONNELL SUBSTATION	746,801	8,324	
949	CORVALLIS SUBSTATION	14,452	374	
950	COSMOPOLIS SUBSTATION	1,546,246	122,440	
951	COTTONWOOD METERING POINT(BPA)	54,681	401	
952	COVINGTON SUBSTATION	63,614,377	966,501	
953	COW CREEK SUBSTATION (UIUC)	14,830	1,427	
954	COWLITZ FALLS POWERHOUSE	72,665	3,689	
955	COWLITZ SUBSTATION	3,142,448	51,551	
956	COWLITZ SUBSTATION(TACOMA PUBLIC UTILITIES)	368,188	1,381	
957	COYOTE SPRINGS SUBSTATION	4,532,741	38,705	
958	CRAIGMONT SUBSTATION	56,390	565	
959	CRESTON SUBSTATION(BPA)	1,811,932	30,934	
960	CRESWELL SUBSTATION	85,010	1,152	
961	CURLEW SUBSTATION	10,717	1,027	
962	CUSICK SUBSTATION	1,919,063	32,536	
963	CUSTER SUBSTATION	48,286,869	557,294	
964	DARBY SUBSTATION	39,236	1,220	
965	DAVIS CREEK SUBSTATION	73,632	1,314	14%
966	DAY MT. SPOKANE	17,108	2,483	
967	DAYTON SUBSTATION(BPA & COLUMBIA REA)	103,536	1,095	
968	DAYTON SUBSTATION(MASON COUNTY)	42,516	1,339	
969	DE MOSS SUBSTATION(BPA)	14,984,151	78,369	
970	DECLO METERING POINT	43,494	1,767	
971	DEER PARK SUBSTATION	461,637	13,343	
972	DELENA SUBSTATION	60,981	872	
973	DELIGHT SUBSTATION	34,597	898	
974	DELL SUBSTATION	30,156	1,410	
975	DEXTER SUBSTATION (LANE ELECTRIC)	85,302	551	
976	DILLARD SUBSTATION	17,335	202	
977	DILLON SUBSTATION	28,985	1,078	
978	DILLON-SALMON SUBSTATION	110,343	577	
979	DISCOVERY BAY SUBSTATION	54,874	218	

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A	B	C	D	
980	DISCOVERY SUBSTATION (N. WASCO PUD)	214,087	8,630	
981	DIVIDE SUBSTATION	22,748	46	
982	DIXIE SUBSTATION	405,202	8,592	55%
983	DIXON SUBSTATION	5,282,153	58,563	
984	DODGE JUNCTION SUBSTATION (PSE)	113,610	6,391	
985	DOE 251W SUBSTATION	93,614	361	
986	DOE 451B SUBSTATION	21,042	1,033	
987	DONALD NYS SUBSTATION	9,822	-	
988	DOOLEY SUBSTATION (WINDY POINT)	283,314	8,849	
989	DORENA SUBSTATION	465,856	14,015	
990	DOVER SWITCHING STATION	18,324	152	
991	DOWER SUBSTATION	1,570	396	
992	DRAIN SUBSTATION	3,032,451	34,426	90%
993	DREWSEY METERING POINT (IPCO)	6,039	1,204	
994	DRISCOLL SUBSTATION	6,846,549	80,617	
995	DROP PLANT PUMPING PLANT	8,779	-	
996	DRUMMOND MONTANA SUBSTATION	4,352	-	
997	DRUMMOND SUBSTATION	23,993,864	161,436	
998	DUCKABUSH SUBSTATION	35,879	1,935	
999	DUTCH CANYON SUBSTATION	15,947	558	
1000	DWORSHAK SUBSTATION	21,847,729	166,749	82%
1001	EAGLE POINT METERING POINT	23,907	-	
1002	EAST BENCH SUBSTATION	29,447	1,087	
1003	EAST COLFAX SUBSTATION	95,156	1,094	
1004	EAST ELLENSBURG SUBSTATION(CITY OF ELLENSBURG)	143,040	267	
1005	EAST FOSSIL SUBSTATION	50,617	291	
1006	EAST GREENACRES #1 METERING POINT	9,045	-	
1007	EAST GREENACRES #2 METERING POINT	7,420	-	
1008	EAST GREENACRES #3 METERING POINT	8,778	-	
1009	EAST HILLS SUBSTATION	443,470	23,400	
1010	EAST OMAK SUBSTATION	6,172,606	54,319	
1011	EAST PINE SUBSTATION	19,963	-	
1012	EAST SUBSTATION	4,388	-	
1013	ECHO LAKE SUBSTATION	35,127,237	148,007	
1014	EE CLOUSE SUBSTATION (KLICKITAT PUD)	111,290	5,841	
1015	EGYPT SUBSTATION	29,691	151	
1016	EIGHT MILE CREEK METERING POINT (UNKNOWN)	229,192	-	
1017	ELBE SUBSTATION	27,620	2,454	
1018	ELLENSBURG SUBSTATION	6,979,467	80,945	
1019	ELM STREET SUBSTATION	14,496	481	
1020	ELMA SUBSTATION	686,902	55,030	
1021	ELMAR SUBSTATION	33,016	237	
1022	ELMO SUBSTATION(MVP)	48,586	515	
1023	ELTOPIA BRANCH CANAL POWERHOUSE	14,336	214	
1024	ELTOPIA SUBSTATION(SOLD)	24,590	209	
1025	ELY SUBSTATION	35,905	1,581	
1026	EMERGENCY OPERATING FACILITY	44,194	2,778	
1027	ENDERSBY SUBSTATION	9,311	371	
1028	ENERGIZER SUBSTATION (KPUD)	280,354	7,917	
1029	ENTERPRISE SUBSTATION	21,193	686	
1030	EUGENE SUBSTATION	6,533,220	111,577	
1031	EUREKA SUBSTATION (LINCOLN ELEC)	37,497	525	
1032	EVERGREEN PUMP STATION	24,923	482	
1033	EWAN SUBSTATION	8,238	-	
1034	FAIRCHILD AIR FORCE BASE NORTH SUBSTATION	25,055	1,201	
1035	FAIRCHILD AIR FORCE BASE SOUTH SUBSTATION	34,734	552	
1036	FAIRFIELD SUBSTATION	22,634	-	
1037	FAIRMOUNT SUBSTATION	21,144,563	172,017	
1038	FAIRVIEW SUBSTATION(BPA)	14,075,725	195,865	
1039	FEEDVILLE SUBSTATION (UEC)	6,548	1,054	
1040	FERN HILL SUBSTATION	13,666	313	
1041	FERN RIDGE SUBSTATION (LANE ELECTRIC)	16,530	508	
1042	FERNDALE SUBSTATION	17,315	-	
1043	FIDALGO SUBSTATION	6,022,402	84,970	
1044	FILBERT SUBSTATION(CITY OF FOREST GROVE)	15,622	1,271	
1045	FINLEY SUBSTATION (BENTON COUNTY PUD)	11,011	714	

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1046	FIRST LIFT SUBSTATION	28,131	-	
1047	FIRST STREET SUBSTATION	237,510	598	
1048	FISHERS ROAD SUBSTATION	6,861	-	
1049	FLATHEAD SUBSTATION(BPA & FLATHEAD ELEC)	6,441,764	51,573	
1050	FLORENCE SUBSTATION (CENTRAL LINCLON PUD)	17,351	241	
1051	FORDS PRAIRIE SUBSTATION(CITYOF CENTRALIA)	38,555	1,192	
1052	FORDS PRAIRIE SUBSTATION(LEWIS CO PUD)	25,993	743	
1053	FOREST GROVE SUBSTATION	5,593,475	89,893	
1054	FORT ROAD METERING POINT	23,768	439	
1055	FORT ROCK SUBSTATION (MIDSTATE ELECTRIC COOP)	281,818	-	
1056	FOSSIL SUBSTATION	10,067,734	59,154	
1057	FOSTER CREEK SUBSTATION(NESPELEM VALLEY ELEC)	56,093	1,951	
1058	FOSTER CREEK SUBSTATIONDOUGLAS CO PUD)	33,214	-	
1059	FOSTER WELLS SUBSTATION	67,001	753	
1060	FOUR LAKES SUBSTATION	15,712	2,388	
1061	FRANKLIN SUBSTATION	14,509,959	270,579	88%
1062	FRANZ HOLMES SUBSTATION	152,954	1,825	
1063	FREEWATER SUBSTATION(BPA)	1,878,452	15,110	
1064	FRENCHMAN HILLS SUBSTATION	14,788	512	
1065	FRENCHMAN SPRINGS SUBSTATION	19,285	643	
1066	FRENCHTOWN SUBSTATION (SOLD)	24,770	208	
1067	FROMAN SUBSTATION	10,025	438	
1068	GARDINER SUBSTATION	608,586	19,427	66%
1069	GARIBALDI SUBSTATION(TILLAMOOK PUD)	350,237	594	
1070	GARRISON SUBSTATION	60,902,565	554,421	69%
1071	GATES OF THE MOUNTAINS METERING POINT	7,949	987	
1072	GEISEL MONUMENT SUBSTATION	37,685	331	
1073	GEM STATE HYDRO PLANT	10,421	29	
1074	GEORGIA PACIFIC SUBSTATION(PSE)	69,838	-	
1075	GIG HARBOR SUBSTATION	59,167	2,268	
1076	GILMER SUBSTATION(KLICKITAT CO PUD)	22,235	509	
1077	GLADE SUBSTATION	290,197	6,481	45%
1078	GLASGOW SUBSTATION	30,939	748	
1079	GLENOMA SUBSTATION	52,158	1,151	
1080	GLENWOOD SUBSTATION	40,067	904	
1081	GOBLE SUBSTATION	29,349	577	
1082	GOLD BAR SUBSTATION	20,053	183	
1083	GOLD BEACH SUBSTATION	129,528	6,497	
1084	GOLDENDALE SUBSTATION(BPA)	1,280,313	25,798	
1085	GOOSE LAKE SUBSTATION(NESPELEM VALLEY ELEC)	6,433	748	
1086	GORMLEY SUBSTATION (MCMINNVILLE W & L)	47,378	265	
1087	GOSHEN SUBSTATION(PACIFICORP)	2,432,709	-	
1088	GOSHEN SUBSTATION(UTAH POWER & LIGHT)	7,213,162	63,632	
1089	GRAND COULEE #2 METERING POINT	10,705	449	
1090	GRAND COULEE SUBSTATION	2,869,123	2,028	
1091	GRAND RONDE SUBSTATION	31,005	670	
1092	GRANDVIEW SUBSTATION	9,510,176	96,661	
1093	GRANGEVILLE SUBSTATION	1,434	-	
1094	GRANTS DALE SUBSTATION	5,648	868	
1095	GRAYS HARBOR FACILITY NO 1 (GRAYS HARBOR ENE)	61,265	11,440	
1096	GRAYS RIVER SUBSTATION	61,344	3,463	
1097	GREEN VALLEY SUBSTATION	2,734,025	22,146	
1098	GREENTIMBER SUBSTATION	37,716	1,535	
1099	GROUSE CREEK METERING POINT	13,002	466	
1100	GUM STREET SUBSTATION	20,554	224	
1101	H2F SUBSTATION	23,867	591	
1102	HAAKENSON SUBSTATION	106,056	3,650	
1103	HAGEN SUBSTATION	48,927	481	
1104	HALF MOON SUBSTATION(INLAND POWER & LIGHT)	20,346	511	
1105	HAMPTON SUBSTATION	73,268	640	
1106	HANFORD SUBSTATION	26,885,275	202,120	
1107	HANNA SUBSTATION(DOUGLAS CO PUD)	5,942	-	
1108	HAPPY VALLEY SUBSTATION	4,265,415	55,260	
1109	HARNEY SUBSTATION(BPA)	7,836,131	102,939	
1110	HARRISBURG SUBSTATION	4,893,940	20,993	96%
1111	HARVALUM SUBSTATION	3,666,796	112,049	

**Appendix A**  
**BP-22 Rate Case Final Proposal Segmentation Details**

A	B	C	D
1112 HARVEST WIND SUBSTATION (KPUD)	259,283	7,280	
1113 HASKILL SUBSTATION	35,947	2,608	
1114 HASKINS METERING POINT	7,710	466	
1115 HAT ROCK SUBSTATION	9,881,386	31,296	
1116 HATTON SUBSTATION(SOLD)	21,007	642	
1117 HATWAI SUBSTATION	21,182,459	267,152	
1118 HAUSER SUBSTATION(BPA)	249,348	13,631	
1119 HAUSER SUBSTATION(CENTRAL LINCOLN PUD)	27,964	-	
1120 HAWK ROAD METERING POINT	17,340	3,755	
1121 HAWKINS SUBSTATION	9,475	48	
1122 HAY CANYON SUBSTATION (IBERDOLA)	130,483	7,202	
1123 HAY MILL SUBSTATION (UNITED ELEC & CITY OF RUPERT)	269,929	14,368	
1124 HAYDEN SUBSTATION	39,160	522	
1125 HAYFORD SUBSTATION(INLAND POWER & LIGHT)	14,000	387	
1126 HEBO SUBSTATION	389,712	14,052	
1127 HEDGES SUBSTATION(BENTON CO PUD)	14,917	734	
1128 HEGLAR SUBSTATION	34,766	2,901	
1129 HEIMARK METERING POINT	37,535	315	
1130 HELENA AVENUE SUBSTATION	45,693	166	
1131 HEPPNER GENERATING STATION	27,447	4	
1132 HERMISTON BUTTE (UEC)	147,492	445	
1133 HEYBURN SUBSTATION	5,690,701	92,975	
1134 HIDEAWAY SUBSTATION (LANE ELECTRIC)	10,025	144	
1135 HIGHLANDS SUBSTATION(BENTON CO PUD)	13,750	455	
1136 HILLTOP SUBSTATION	1,907,532	47,186	
1137 HILTON LAKE SUBSTATION	28,003	261	
1138 HINES SUBSTATION	32,533	2,176	
1139 HOLCOMB SUBSTATION	1,634,592	24,455	
1140 HOLDEN CREEK (EWEB)	127,248	28	
1141 HOOD RIVER SUBSTATION	1,577,158	50,506	74%
1142 HOODOO SUBSTATION	9,803	231	
1143 HOOPER SPRINGS SUBSTATION	70,507,397	-	
1144 HOPE VALLEY METERING POINT	13,403	330	
1145 HOPKINS RIDGE SUBSTATION	48,093	2,338	
1146 HORN BUTTE SUBSTATION (INVENERGY WIND)	208,873	17,521	
1147 HORN RAPIDS SUBSTATION	30,595	346	
1148 HORSE HEAVEN SUBSTATION	5,486,559	50,895	
1149 HOT SPRINGS SUBSTATION	19,081,697	418,000	
1150 HUGHS SUBSTATION(SALEM ELEC COOP)	85,091	333	
1151 IDAHO FALLS SUBSTATION	2,983	1,544	
1152 IDAHOME SUBSTATION	1,595,994	47,587	
1153 IMRIE SUBSTATION (PACW)	141,675	8,072	
1154 INTALCO SUBSTATION	16,294,395	255,842	71%
1155 IONE SUBSTATION	819,297	16,523	86%
1156 IRBY SUBSTATION	339,768	8,538	
1157 IRRIGRO SUBSTATION	4,436	-	
1158 JENKINS SUBSTATION	183,601	2,925	
1159 JERICHO PUMPING PLANT	36,866	463	
1160 JIGGS-LEE METERING POINT	22,773	292	
1161 JIM CREEK SUBSTATION	20,733	1,515	
1162 JOHN CURTIS SUBSTATION	76,330	2,077	
1163 JOHN DAY CONSTRUCTION SUBSTATION	38,025	557	
1164 JOHN DAY SUBSTATION	23,218,370	268,208	44%
1165 JOHN DAY SUBSTATION - 230 YARD	28,799,481	64,469	
1166 JOHNS PRAIRIE SUBSTATION	36,662	488	
1167 JONES CANYON SUBSTATION	17,972,882	66,783	
1168 JONES SUBSTATION	5,407	257	
1169 JULIA STREET (KOOTENAI ELECTRIC COOPERATVIE)	26,666	458	
1170 JULIAETTA SUBSTATION	11,005	865	
1171 JUNCTION CITY SUBSTATION(BLACHLY-LANE CO ELEC COOP)	5,106	573	
1172 JUNIPER CANYON I SUBSTATION (IR INC.)	126,791	7,193	
1173 KAH-NEE-TA SUBSTATION	53,561	1,330	
1174 KALISPELL SUBSTATION(BPA)	13,029,968	155,825	
1175 KAMIAH SUBSTATION	19,894	511	
1176 KEELER SUBSTATION	115,966,787	865,540	
1177 KELLER SUBSTATION	829,723	11,941	



**Appendix A**  
**BP-22 Rate Case Final Proposal Segmentation Details**

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
1178	KELTON SUBSTATION	21,825	660	
1179	KENNEDY SUBSTATION	162,287	1,170	
1180	KENNEWICK SUBSTATION(BENTON CO PUD)	23,070	609	
1181	KERR SUBSTATION(BPA)	1,788,275	17,169	
1182	KETTLE FALLS SUBSTATION	5,249	292	
1183	KITSAP SUBSTATION	14,827,947	196,098	
1184	KLONDIKE SCHOOLHOUSE SUBSTATION (IBERDOLA)	29,337	6,332	
1185	KLONDIKE SCHOOLHOUSE SUBSTATION(BPA)	382,745	-	
1186	KLONDIKE SUBSTATION	99,532	1,004	
1187	KNAPPA SVENSEN SUBSTATION	2,188	836	
1188	KNIGHT SUBSTATION	56,518,774	68,766	
1189	KNIGHTS BRIDGE (CANBY UTILITY BOARD)	32,888	200	
1190	KOOSKIA SUBSTATION	21,459	720	
1191	LA GRANDE SUBSTATION	7,995,899	85,866	
1192	LA PINE SUBSTATION	23,303,561	109,924	
1193	LAGOON SUBSTATION	22,101	470	
1194	LAGRANDE POWERHOUSE	18,997	-	
1195	LAKE BAY SUBSTATION	7,193	1,778	
1196	LAKE GROVE SUBSTATION	62,954	1,121	
1197	LAKE LENORE #1 IRRIGATION PUMP	12,122	1,002	
1198	LAKE LENORE #2 IRRIGATION PUMP	12,736	280	
1199	LAKESIDE SUBSTATION (CLP)	21,534	192	
1200	LAKESIDE SUBSTATION (FEC)	22,744	500	
1201	LAKEVIEW SUBSTATION	71,364	994	
1202	LANCASTER SUBSTATION(BPA)	1,361,783	64,361	
1203	LANE SUBSTATION	24,231,037	261,046	
1204	LANGLOIS SUBSTATION	423,551	14,607	68%
1205	LARENE SUBSTATION (INLAND)	440	206	
1206	LATERAL 4 METERING POINT	42,935	463	
1207	LATHAM SUBSTATION	89,194	913	
1208	LEBANON SUBSTATION	3,701,597	26,920	
1209	LESLIE ROAD SUBSTATION (BENTON PUD 1)	65,583	60	
1210	LEVEY SUBSTATION	2,283,427	16,915	
1211	LEWIS & CLARK SUBSTATION	7,015	-	
1212	LEXINGTON SUBSTATION	11,972,719	187,814	
1213	LIBBY SUBSTATION(BPA)	7,060,560	173,039	69%
1214	LIBBY SUBSTATION(BPA/FLATHEADELEC)	674,984	10,860	
1215	LILLIWAUP HYDRO GENERATING PLANT	29,845	2,495	
1216	LINDEN SUBSTATION (KPUD)	10,273	-	
1217	LION MOUNTAIN SUBSTATION	66,581	1,012	
1218	LITTLE FALLS GENERATING PLANT	3,547	-	
1219	LITTLE GOOSE SUBSTATION	68,074,878	150,716	80%
1220	LOCUST SUBSTATION	32,812	251	
1221	LODHOLM SUBSTATION	59,434	1,827	
1222	LOLO SUBSTATION (NWE)	16,060	3,136	
1223	LONE PINE SUBSTATION(PACIFICORP)	26,796	-	
1224	LONGVIEW SUBSTATION	40,030,294	367,089	
1225	LOOKINGGLASS SUBSTATION(BPA)	329,093	4,855	
1226	LOOKOUT POINT SUBSTATION	3,329,786	26,020	75%
1227	LOPEZ ISLAND SUBSTATION(BPA)	7,377,942	76,616	
1228	LOST RIVER SUBSTATION	1,851,841	37,134	
1229	LOW GAP METERING POINT	11,133	1,138	
1230	LOWER BULB GENERATING PLANT	16,027	43	
1231	LOWER GRANITE SUBSTATION	12,179,056	105,867	75%
1232	LOWER MONUMENTAL SUBSTATION	36,383,174	260,402	87%
1233	LOWER WOODCHUCK SUBSTATION	34,740	479	
1234	LUHR BEACH SUBSTATION	58,733	197	
1235	LUMP GULCH SUBSTATION	20,312	1,139	
1236	LYLE SUBSTATION	48,978	608	
1237	LYN PUMPS PUMPING PLANT	28,149	-	
1238	LYNCH CREEK SUBSTATION	726,128	11,476	57%
1239	MABTON SUBSTATION	1,352,795	14,868	
1240	MACKAY SUBSTATION	198,886	3,224	
1241	MACKS INN SUBSTATION	478,114	54,645	
1242	MADISON SUBSTATION	1,571,635	33,924	
1243	MAPLE VALLEY SUBSTATION	75,105,335	656,335	

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	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
1244	MAPLETON SUBSTATION	933,517	33,601	86%
1245	MARENGO SUBSTATION	28,220	658	
1246	MARION SUBSTATION	39,440,179	417,311	92%
1247	MARTIN CREEK SUBSTATION	7,844,254	40,780	
1248	MASHEL PRAIRIE SUBSTATION (OHOP)	131,931	2,270	
1249	MASON SUBSTATION(MASON CO PUDNO 3)	56,492	1,873	
1250	MAUPIN SUBSTATION	11,236,819	80,294	
1251	MAYFIELD POWERHOUSE	3,167	-	
1252	MAYFIELD SWITCHYARD	202,128	2,570	
1253	MCCULLOUGH SUBSTATION	29,139	1,894	
1254	MCKENZIE SUBSTATION(EWEB)	31,684	2,783	
1255	MCLOUGHLIN SUBSTATION	316,731	7,338	
1256	MCMINNVILLE SUBSTATION	2,054,611	78,207	
1257	MCNARY SUBSTATION	131,377,006	566,316	92%
1258	MESA SUBSTATION	91,656	1,237	
1259	METALINE FALLS SUBSTATION(PEND OREILLE CO PUD)	14,425	113	
1260	MIDWAY SUBSTATION(BPA)	43,651,863	581,014	
1261	MILAN SUBSTATION	27,672	641	
1262	MILL PLAIN SUBSTATION	3,331	-	
1263	MILL PRIMARY SUBSTATION	44,409	-	
1264	MILLER SUBSTATION(LAKEVIEW LIGHT & PWR)	123,121	2,951	
1265	MILTON SUBSTATION(CITY OF MILTON FREEWATER)	141,908	9,914	
1266	MINICO SUBSTATION (UNITED ELECTRIC)	12,493	7,885	
1267	MINIDOKA SUBSTATION	139,342	3,503	36%
1268	MINT FARM SWITCHING STATION	144,200	6,038	
1269	MISSION SUBSTATION	4,255	678	
1270	MISSION VALLEY METERING POINT	719,150	-	
1271	MIST SUBSTATION	50,488	1,163	
1272	MOAB SUBSTATION	27,824	183	
1273	MOHLER SUBSTATION(TILLAMOOK PUD)	29,278	505	
1274	MONMOUTH SUBSTATION	1,308,756	36,063	58%
1275	MONROE SUBSTATION	68,308,512	343,924	
1276	MORRISON SUBSTATION	17,456	109	
1277	MORROW FLAT	40,475,631	56,001	
1278	MOSSYROCK SUBSTATION	17,122	-	
1279	MOSSYROCK SWITCHYARD	129,517	2,436	
1280	MOUNTAIN AVENUE SUBSTATION	1,649,673	28,096	78%
1281	MOUNTAIN HOME SUBSTATION(IDAHO POWER)	67,338	8,186	
1282	MOUNTAIN VIEW SUBSTATION(MASON CO PUD NO 3)	29,452	496	
1283	MOXEE SUBSTATION	6,505,292	71,294	
1284	MOYIE DAM	32,179	1,478	
1285	MOYIE SUBSTATION	34,974	971	
1286	MT. HALL SUBSTATION	15,208	611	
1287	MT. VERNON SUBSTATION(SPRINGFIELD UTILITY BOARD)	7,307	198	
1288	MUDDY RANCH SUBSTATION	51,201	1,114	
1289	MURRAY SUBSTATION	10,360,885	117,919	
1290	NAPAVINE SUBSTATION	2,158,643	70,028	
1291	NARROWS SUBSTATION	96,416	1,914	
1292	NASELLE SUBSTATION	4,482,656	67,590	
1293	NECANICUM SUBSTATION	155,809	5,423	46%
1294	NEFF ROAD METERING POINT	46,637	3,755	
1295	NEWCOMB SUBSTATION(SOLD)	28,362	945	
1296	NEWPORT SUBSTATION(INLAND POWER)	260,047	2,321	
1297	NINE CANYON SUBSTATION (BENTON PUD)	87,961	15,756	
1298	NINE MILE SUBSTATION (FPLE)	42,950	11,586	
1299	NORTH BENCH SUBSTATION	303,427	3,020	41%
1300	NORTH BEND SUBSTATION	39,582	270	
1301	NORTH BONNEVILLE SUBSTATION	10,829,835	145,982	69%
1302	NORTH BROOKINGS SUBSTATION	439,706	9,699	
1303	NORTH BUTTE SUBSTATION	110,484	7,261	56%
1304	NORTH LEWISTON SUBSTATION	20,900	392	
1305	NORTH PASCO SUBSTATION	59,484	236	
1306	NORTH PORT SUBSTATION (CCL)	25,067	686	
1307	NORTH POWDER SUBSTATION	4,392	-	
1308	NOTI CREEK SUBSTATION	114,195	2,138	
1309	NOXON CONSTRUCTION SUBSTATION	207,354	1,076	

**Appendix A**  
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A	B	C	D
1310 NOXON DAM POWERHOUSE	50,959	-	
1311 NOXON SWITCHYARD	3,248	1,408	
1312 OAK KNOLL SUBSTATION	70,494	659	
1313 OAKRIDGE SUBSTATION (LANE ELECTRIC)	156,911	3,567	
1314 ODESSA SUBSTATION	818,532	17,825	
1315 O'GARA SUBSTATION	1,305	323	
1316 OHOP SUBSTATION	61,175	2,032	
1317 OKANOGAN SUBSTATION	198,191	1,288	
1318 OLD LOWER GENERATING PLANT	7,514	-	
1319 OLINDA SUBSTATION	357,021	984	
1320 OLNEY METERING POINT	35,014	325	
1321 OLYMPIA SUBSTATION	41,803,861	665,135	
1322 OLYMPIC PIPELINE	12,580	532	
1323 OMAK SUBSTATION	138,563	586	
1324 OPHIR SUBSTATION	11,385	-	
1325 OPPORTUNITY SUBSTATION	15,961	360	
1326 OREGON CITY SUBSTATION	7,305,898	146,305	
1327 OREMET SUBSTATION	31,352	326	
1328 OSTRANDER SUBSTATION	55,620,596	428,037	
1329 OTHELLO SUBSTATION	69,527	-	
1330 OUTBACK SOLAR GENERATING PLANT (OUTBACK SOLAR, LLC)	14,510	1,183	
1331 OVANDO SUBSTATION	2,079,001	28,837	
1332 OXBOW SUBSTATION(PACIFIC CO PUD)	14,180	571	
1333 PACIFIC SUBSTATION	39,385	1,000	
1334 PACKWOOD POWERHOUSE	21,911	663	
1335 PACKWOOD SUBSTATION	59,119	-	
1336 PAISLEY GEOTHERMAL PLANT METERING POINT	36,046	911	
1337 PARKDALE SUBSTATION	1,071,795	21,263	71%
1338 PARKLAND SUBSTATION	20,439	-	
1339 PASCO SUBSTATION	97,900	421	
1340 PATEROS SUBSTATION	11,455	-	
1341 PATERSON SUBSTATION	19,705	1,243	
1342 PATTON VALLEY METERING POINT	17,235	295	
1343 PATU SUBSTATION	6,177	803	
1344 PAUL SUBSTATION	43,806,991	247,614	
1345 PE ELL SUBSTATIONLEWIS CO PUD)	16,913	664	
1346 PEARL SUBSTATION	60,374,334	221,331	
1347 PEBBLE SPRINGS SUBSTATION (IBERDOLA)	193,916	-	
1348 PENDERGAST SUBSTATION	5,409	196	
1349 PENDLETON SUBSTATION	43,283	16,626	
1350 PHILLIPS SUBSTATION	51,248	663	
1351 PIHL ROAD METERING POINT	12,687	281	
1352 PIKE METERING POINT	46,084	322	
1353 PILOT ROCK SUBSTATION	203,406	894	
1354 PINE HOLLOW SUBSTATION	9,950	677	
1355 PIONEER SUBSTATION	79,600	-	
1356 PLEASANT HILL SUBSTATION	25,938	400	
1357 PLEASANT VIEW SUBSTATION	6,044	706	
1358 PLUMMER SUBSTATION	55,840	429	
1359 PLYMOUTH SUBSTATION	41,633	1,252	
1360 POINT OF ROCKS SUBSTATION	47,044	707	
1361 POMEROY SUBSTATION(BPA)	4,805,139	34,366	
1362 PONDERAY	59,360	-	
1363 PONDEROSA SUBSTATION(BPA)	61,210,264	179,415	
1364 POPCORN HILL METERING POINT	22,116	-	
1365 PORT ANGELES SUBSTATION(BPA)	21,141,288	309,232	
1366 PORT ANGELES SUBSTATION(ITT RAYONIER)	465,014	-	
1367 PORT ORFORD SUBSTATION	296,514	16,821	63%
1368 PORT TOWNSEND SUBSTATION	106,937	4,192	
1369 PORT WESTWARD (PGE)	613,632	273	
1370 POTHOLES EAST CANAL GENERATING PLANT	14,299	46	
1371 POTHOLES SUBSTATION	3,154,093	45,873	
1372 POTLATCH SUBSTATION(AVISTA)	34,912	383	
1373 POTLATCH SUBSTATION(BPA)	1,006,926	31,379	89%
1374 POWERLINE SUBSTATION	72,846	1,294	
1375 PRAIRIE SUBSTATION(WWP & KOOTENAI ELEC COOP)	15,691	324	

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	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
1376	PRIEST RIVER SUBSTATION(AVISTA)	30,389	147	
1377	PRIEST RIVER SUBSTATION(BPA)	825,642	21,629	
1378	PROSSER SUBSTATION(BENTON CO PUD)	43,065	1,176	
1379	PURDY SUBSTATION	59,163	1,072	
1380	PYRAMID SUBSTATION	26,868	2,313	
1381	QUARTZ SUBSTATION (IDAHO POWER)	9,766	61	
1382	QUENETT CREEK SUBSTATION	41,438,670	10,078	
1383	QUILCENE SUBSTATION	25,406	637	
1384	QUINCY SUBSTATION	16,867	698	
1385	RADAR PUMPING PLANT	13,763	705	
1386	RAFT SUBSTATION	2,177	1,205	
1387	RAINBOW VALLEY SUBSTATION (LANE ELECTRIC)	51,807	341	
1388	RAINIER SUBSTATION	146,713	1,137	
1389	RALSTON SUBSTATION(SOLD)	5,604	1,248	
1390	RANDLE SUBSTATION	32,099	-	
1391	RATHDRUM SUBSTATION	28,219	1,203	
1392	RATTLESNAKE ROAD SUBSTATION (HORIZON WIND)	16,318	-	
1393	RATTLESNAKE SUBSTATION(BENTONREA)	43,829	736	
1394	RAVER SUBSTATION	64,756,643	582,557	
1395	RAYMOND SUBSTATION	3,420,013	62,739	
1396	READ SUBSTATION	63,682	630	
1397	REATA SUBSTATION(BENTON CO PUD)	50,929	342	
1398	RED MOUNTAIN SUBSTATION	4,491,285	43,457	
1399	REDMOND SUBSTATION(BPA)	40,925,915	175,490	
1400	REEDSPORT SUBSTATION (BPA)	3,472,631	86,674	94%
1401	REPUBLIC SUBSTATION	537,888	26,483	
1402	RESTON SUBSTATION	964,689	26,933	
1403	RICHLAND SUBSTATION	2,831,853	91,023	
1404	RILEY SUBSTATION	50,777	2,207	
1405	RIMROCK LAKE SUBSTATION (BENTON REA)	30,789	1,468	
1406	RINGOLD SUBSTATION	425,799	14,426	74%
1407	RIVER ROAD GENERATION PLANT SUBSTATION	354,664	2,935	
1408	RIVERBEND LANDFILL GENERATING PLANT (WM LLC)	10,273	2,270	
1409	RIVERFRONT SUBSTATION	21,522	315	
1410	RIVERGATE SUBSTATION	4,468	640	
1411	RIVERTON SUBSTATION(CITY OF HEYBURN)	22,577	3,753	
1412	ROBBINS ROAD METERING POINT	20,394	591	
1413	ROCK CREEK SUBSTATION	43,236,359	111,757	
1414	ROCKY BROOK POWERHOUSE	2,016	1,592	
1415	ROCKY REACH SUBSTATION	4,309,789	11,988	
1416	ROE'S CORNER SUBSTATION	38,236	1,273	
1417	ROGUE SUBSTATION	31,336,597	278,896	
1418	ROSALIA SUBSTATION	28,425	702	
1419	ROSS SUBSTATION	20,318,334	579,277	
1420	ROUND VALLEY SUBSTATION	3,412,422	37,706	
1421	ROUNDUP SUBSTATION	5,508,819	127,378	
1422	ROXBORO SUBSTATION	21,585	1,760	
1423	ROY L ZIMMERMAN SUBSTATION	45,535	504	
1424	ROZA SUBSTATION	3,368	-	
1425	RUBY STREET SUBSTATION (FRANKLIN CO PUD)	61,727	1,085	
1426	RUSSELL SMITH POWERHOUSE	11,906	91	
1427	SACAJAWEA SUBSTATION	25,105,927	74,735	99%
1428	SACHEEN SUBSTATION	3,479,879	43,586	
1429	SAGEHILL SUBSTATION	1,506	415	
1430	SALEM ALUMINA SUBSTATION(SALEM ELEC COOP)	18,224	2,371	
1431	SALEM SUBSTATION (SALEM ELEC & BPA)	9,691,361	128,869	
1432	SAMMAMISH SUBSTATION	1,911	-	
1433	SAMUELS SUBSTATION	42,869	1,205	
1434	SAND CREEK SUBSTATION	5,930,617	48,210	
1435	SAND DUNES SUBSTATION	3,510,776	-	
1436	SAND HILL CRANE SUBSTATION	70,897	1,473	
1437	SANDPOINT SUBSTATION(BPA)	1,106,305	18,270	85%
1438	SANTIAM SUBSTATION	27,175,956	313,996	98%
1439	SAPPHO SUBSTATION	8,846,913	59,349	
1440	SATSOP PARK SUBSTATION (GHPUD)	176,327	4,184	
1441	SATSOP SUBSTATION(BPA)	26,694,971	254,457	

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	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
1442 SATUS 2 SUBSTATION		9,693	153	
1443 SATUS 3 SUBSTATION		28,953	-	
1444 SCAPPOOSE SUBSTATION		39,482	1,346	
1445 SCARCELLO SUBSTATION (KOOTENAI ELECTRIC)		10,025	266	
1446 SCHULTZ SUBSTATION		67,295,445	409,338	
1447 SCOGGINS VALLEY METERING POINT		27,685	905	
1448 SCOOTENEY SUBSTATION		1,636,721	37,170	92%
1449 SEDRO WOOLLEY SUBSTATION		41,393	330	
1450 SELLE SUBSTATION		233,060	2,828	31%
1451 SETTERS SUBSTATION		18,961	229	
1452 SEVEN FEATHERS SUBSTATION (UIUC)		10,387	1,117	
1453 SHANO SUBSTATION		32,045	484	
1454 SHELTON SUBSTATION		29,807,177	240,298	
1455 SHEPERDS NORTH SUBSTATION		95,361	7,266	
1456 SHEPERDS SOUTH SUBSTATION		101,677	6,781	
1457 SHEPHERDS CENTRAL SUBSTATION		129,764	6,365	
1458 SHEPHERDS FLAT SUBSTATION (CAITHNESS SF)		63,847	-	
1459 SHORT MOUNTAIN GENERATING PLANT		17,681	905	
1460 SICKLER SUBSTATION		13,146,964	418,728	
1461 SIFTON SUBSTATION		6,235,194	203,827	
1462 SILVER BOW SUBSTATION		1,761,612	15,518	
1463 SILVER CREEK SUBSTATION		3,548,011	51,541	
1464 SILVER STAR SUBSTATION		44,433	1,468	
1465 SILVERADO SUBSTATION (CLALLAM CO. PUD)		119,823	807	
1466 SKOOKUM SUBSTATION		68,054	682	
1467 SLATT SUBSTATION		98,688,652	380,738	97%
1468 SMITH CREEK POWERHOUSE		4,962	498	
1469 SMITHSON SUBSTATION (KITITAS CO PUD)		29,513	258	
1470 SNIPES SUBSTATION		90,899	1,468	
1471 SNIPTION SUBSTATION		47,195	23	
1472 SNOHOMISH SUBSTATION		61,630,438	433,112	
1473 SNO-KING SUBSTATION		44,495,260	249,609	
1474 SNYDER SUBSTATION		81,684	416	
1475 SODA SPRINGS SUBSTATION		6,336	165	
1476 SOUTH BUTTE SUBSTATION		12,037	541	
1477 SOUTH CUT BANK SUBSTATION		11,955	-	
1478 SOUTH ELMA SUBSTATION		318,651	3,591	
1479 SOUTH FORK SUBSTATION		49,334	277	
1480 SOUTH SLOPE SUBSTATION		31,283	338	
1481 SOUTH SUBSTATION (SEATTLE CITY LIGHT)		62,772	-	
1482 SOUTH TACOMA SUBSTATION		5,405,595	69,488	
1483 SPALDING SUBSTATION		51,421	903	
1484 SPANGLE SUBSTATION		18,957	1,334	
1485 SPAR CANYON SUBSTATION		703,741	51,381	
1486 SPAW SUBSTATION		11,078	-	
1487 SPEARFISH SUBSTATION(KLICKITAT CO PUD)		35,741	426	
1488 SPRING CREEK SUBSTATION		9,909,235	56,344	
1489 SPRINGFIELD SUBSTATION(SPRINGFIELD UTILITY BOARD)		23,401	-	
1490 SPRINGHILL SUBSTATION(INLAND POWER & LIGHT)		23,544	463	
1491 ST. HELENS SUBSTATION		18,502	1,562	
1492 ST. JOHNS SUBSTATION		10,783,934	161,226	
1493 STATELINE SUBSTATION		35,972	1,974	25%
1494 STEILACOOM SUBSTATION		754,305	10,959	69%
1495 STEVENS DRIVE SUBSTATION(CITY OF RICHLAND)		51,835	609	
1496 STEVENSON SUBSTATION		25,896	1,067	
1497 STEVENSVILLE SUBSTATION		2,086	519	
1498 STILLWATER SUBSTATION(LINCOLNELECTRIC COOP)		37,172	214	
1499 SUBSTATION FG		621,106	1,388	
1500 SUBSTATION H		624,485	1,284	
1501 SUBSTATION X		1,387,269	33,418	
1502 SUGAR MILL SUBSTATION		660,266	1,253	
1503 SULLIVAN SUBSTATION(VERA WATER & POWER)		5,684	256	
1504 SUMAS SUBSTATION		13,840	472	
1505 SUMMER LAKE SUBSTATION		2,939,477	61,628	43%
1506 SUMNER SUBSTATION		22,970	676	
1507 SUN HEAVEN NO. 2 SUBSTATION		31,152	628	

**Appendix A**  
**BP-22 Rate Case Final Proposal Segmentation Details**

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
1508 SUNNYSIDE PORT SUBSTATION		164,869	187	
1509 SUNSET ROAD SUBSTATION (BENTON CO PUD)		26,467	431	
1510 SURPRISE LAKE SUBSTATION		604,747	12,193	80%
1511 SWAN VALLEY SUBSTATION		12,515,351	76,291	98%
1512 SWEETWATER SUBSTATION		22,846	320	
1513 T3BA'DAS SUBSTATION (MASON COUNTY PUD NO 1)		41,693	531	
1514 TACOMA SUBSTATION		22,548,405	218,948	99%
1515 TAFT SUBSTATION		39,334,143	771,686	
1516 TAHKENITCH SUBSTATION		7,622,016	83,211	
1517 TANNER SUBSTATION		62,121	680	
1518 TAPTEAL SUBSTATION		92,685	1,479	
1519 TARBELL SUBSTATION		18,665	380	
1520 TARGHEE SUBSTATION		7,690,254	60,424	
1521 TARGHEE TAP SWITCHING STATION		317,710	12,186	
1522 TARKIO SUBSTATION		3,886	257	
1523 TAYLOR FLATS SUBSTATION		53,710	856	
1524 TEANAWAY SUBSTATION		398	1,080	
1525 TECOMA METERING POINT		15,357	1,968	
1526 TETON SUBSTATION		11,262,261	74,968	
1527 THATCHER JUNCTION SUBSTATION		37,440	1,414	
1528 THAYER DRIVE SUBSTATION(CITY OF RICHLAND)		85,951	1,473	
1529 THE DALLES SUBSTATION		2,452,085	60,621	
1530 THOMPSON FALLS SUBSTATION		41,428	908	
1531 THURSTON SUBSTATION		27,476	1,308	
1532 TIDE FLATS SUBSTATION		(1,389)	-	
1533 TILLAMOOK SUBSTATION		8,927,268	114,772	
1534 TIMBER SUBSTATION		1,064,220	22,576	
1535 TINCUP SUBSTATION		559,127	24,247	
1536 TOLEDO SUBSTATION		14,653,720	145,112	
1537 TOPPENISH SUBSTATION (YAKIMA POWER)		42,761	-	
1538 TOSTON SUBSTATION		24,600	1,793	
1539 TOTTEN SUBSTATION (MASON CO PUD 3)		61,057	-	
1540 TOWNSEND METERING POINT		35,194	904	
1541 TRASK RIVER SUBSTATION		19,987	617	
1542 TREGO SUBSTATION(LINCOLN ELECTRIC COOP)		588,787	12,529	
1543 TRENTWOOD SUBSTATION		5,750,106	99,119	81%
1544 TROUT CREEK SUBSTATION		45,108	472	
1545 TROUTDALE SUBSTATION(BPA)		40,639,148	300,031	
1546 TROY SUBSTATION		685,866	24,625	63%
1547 TRUMBULL CREEK SUBSTATION		51,518	2,563	
1548 TUCANNON RIVER SUBSTATION		10,385,617	72,362	
1549 TUM TUM SUBSTATION		26,909	618	
1550 TUMBLE CREEK SUBSTATION		974,480	15,212	72%
1551 TWILIGHT SUBSTATION		20,840	-	
1552 Twisp Substation 13.2kV Feeder		66,883	-	
1553 TWO MILE ROAD SUBSTATION		1,107,811	12,664	71%
1554 TYEE SUBSTATION		86,912	3,921	
1555 TYGH VALLEY SUBSTATION (WASCO ELEC. COOP)		27,349	3,562	
1556 U. S. PLYWOOD SUBSTATION		15,723	-	
1557 UKIAH SUBSTATION		81,846	462	
1558 UNDERWOOD SUBSTATION		85,372	1,779	
1559 UNDERWOOD TAP AUTO-SECTIONALIZING STATION		698,308	3,540	
1560 UNITY SUBSTATION (IDAHO POWERCOMPANY)		6,894	161	
1561 UNITY SUBSTATION(BPA)		1,563,076	47,479	
1562 UPPER GENERATING PLANT		17,829	22	
1563 USK SUBSTATION(BPA)		978,207	42,100	
1564 VALHALLA SUBSTATION		4,829,020	61,400	94%
1565 VALLEY SUBSTATION(RAFT RIVER ELEC COOP)		23,392	1,150	
1566 VANCOUVER SHIPYARD SUBSTATION		26,421	-	
1567 VANTAGE STATE PARK METERING POINT		20,238	-	
1568 VANTAGE SUBSTATION		47,061,066	323,003	
1569 VAUGHN SUBSTATION		29,287	1,414	
1570 VERA SUBSTATION (VERA W&P, INLAND P&L)		21,431	2,070	
1571 VICTOR SUBSTATION (RAVALLI COUNTY ELEC COOP)		6,943	251	
1572 VICTOR SUBSTATION(FALL RIVER RURAL ELEC COOP)		81,618	426	
1573 VIEW SUBSTATION		13,906	411	

**Appendix A**  
**BP-22 Rate Case Final Proposal Segmentation Details**

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
1574 VINSON METERING POINT		27,323	31	
1575 VISTA SUBSTATION		25,231	563	
1576 WAGNER LAKE SUBSTATION		543,101	12,188	
1577 WAHKIAKUM SUBSTATION		271,249	922	
1578 WAHLUKE SUBSTATION		10,343	-	
1579 WALLA WALLA SUBSTATION(BPA)		11,297,000	140,596	
1580 WALLA WALLA SUBSTATION(PACIFICORP)		224,061	-	
1581 WALNUT CITY SUBSTATION(CITY OF MCMINNVILLE)		28,886	107	
1582 WALTON SUBSTATION		213,497	4,404	38%
1583 WARDEN POLE METERING POINT		14,752	1,810	
1584 WARDEN POLE NO 2 METERING POINT		13,121	-	
1585 WARNER SUBSTATION		4,927,810	52,915	
1586 WARREN SUBSTATION		631,206	38,226	
1587 WAUTOMA SUBSTATION		36,152,026	157,453	
1588 WEIPPE SUBSTATION		18,934	131	
1589 WELLS SUBSTATION(IDAHO POWER)		53,246	1,097	
1590 WENDSON SUBSTATION		7,138,322	179,381	
1591 WEST BURLEY SUBSTATION(UNITED ELEC COOP)		156,561	6,253	
1592 WEST JOHN DAY SUBSTATION		51,941	2,254	
1593 WEST PLAINS SUBSTATION (IP&L)		103,071	639	
1594 WEST REXBURG METERING POINT		21,513	-	
1595 WEST WELLS SUBSTATION		18,036	408	
1596 WEST WENDOVER METERING POINT		59,200	860	
1597 WESTCOTT SUBSTATION (CANBY ELECTRIC)		6,150	184	
1598 WESTMORELAND SUBSTATION		5,482	-	
1599 WEYERHAEUSER INDUSTRIAL WAY WEYCO NO 1 SUBSTATION (COWLITZ)		20,731	837	
1600 WHEAT FIELD SUBSTATION (WFWPP) WALLULA GENERATING PLANT		10,273	-	
1601 WHEELER SUBSTATION		10,359	-	
1602 WHITCOMB SUBSTATION		95,864	502	
1603 WHITE BLUFFS SUBSTATION		11,748,679	109,219	
1604 WHITE CREEK SUBSTATION (KPUD)		322,275	10,405	
1605 WHITE RIVER SUBSTATION		10,703	-	
1606 WHITE SWAN SUBSTATION(BENTON REA)		10,025	740	
1607 WHITEHALL SUBSTATION		64,230	564	
1608 WILLAKENZIE SUBSTATION		32,420	-	
1609 WILLARD JOHNSON SUBSTATION(HOOD RIVER ELEC)		90,662	671	
1610 WILLIS SUBSTATION (KPUD)		299,688	12,754	
1611 WILSON RIVER SUBSTATION		46,669	1,302	
1612 WINCHESTER SUBSTATION		3,851	776	
1613 WINDISHAR SUBSTATION		32,018	2,262	
1614 WINE COUNTRY SUBSTATION		6,429,376	30,982	
1615 WINNEMUCCA SUBSTATION		134,454	1,066	
1616 WINTHROP SUBSTATION		1,349,024	17,044	88%
1617 WOODLAND SWITCHING STATION		644,045	477	
1618 WOODSIDE SUBSTATION (RAVALLI CO ELEC COOP)		17,660	231	
1619 WORDEN SUBSTATION (COLUMBIA RURAL ELECTRIC ASSOCIATION)		39,940	188	
1620 WREN SUBSTATION		1,656,489	55,694	
1621 WYNOOCHEE HYDRO PLANT		73,355	1,505	
1622 YAAK SUBSTATION		393,779	2,661	18%
1623 ZEPHYR HEIGHTS SUBSTATION		46,512	396	
<b>1624 Subtotal Stations</b>		<b>3,663,208,522</b>	<b>34,073,176</b>	

<b>Southern Intertie Facilities</b>				
		<b>Investment (\$)</b>	<b>O&amp;M (\$)</b>	<b>Multi %</b>
1625 ALVEY-DIXONVILLE NO 1		25,192,398	-	
1626 BIG EDDY 500/230KV TIE NO 1		51,352	142	
1627 BIG EDDY SUBSTATION 230/115KV TIE NO 1		193,018	-	77%
1628 BIG EDDY-CELILO NO 1		1,284,742	4,775	
1629 BIG EDDY-CELILO NO 2		1,463,788	2,049	
1630 BIG EDDY-CELILO NO 3		373,697	368	
1631 BIG EDDY-CELILO NO 4		249,132	1,575	
1632 BUCKLEY-GRIZZLY NO 1		9,961,133	13,503	57%
1633 BUCKLEY-MARION NO 1		20,351,214	10,830	50%
1634 BUCKLEY-MARION NO 1 (ML CLACKAMAS CO)		752,032	-	50%

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<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
1635 BUCKLEY-MARION NO 1 (ML MARION CO)	322,300	-	50%
1636 CAPTAIN JACK-MALIN NO 1	844,154	1,903	
1637 CAPTAIN JACK-OLINDA NO 1	7,393,503	1,637	
1638 CELILO-SYLMAR NO 1	54,630,428	124,880	
1639 CELILO-SYLMAR NO 1 (ML CROOK CO)	8,114,494	-	
1640 CELILO-SYLMAR NO 1 (ML DESCHUTES CO)	7,150,134	-	
1641 CELILO-SYLMAR NO 1 (ML JEFFERSON CO)	6,976,974	-	
1642 CELILO-SYLMAR NO 1 (ML LAKE CO)	30,848,261	-	
1643 CELILO-SYLMAR NO 1 (ML WASCO CO)	13,509,727	-	
1644 COYOTE SPRINGS-SLATT NO 1	328,931	2,693	12%
1645 DIXONVILLE-MERIDIAN	33,312,011	-	
1646 GRIZZLY-CAPTAIN JACK NO 1	20,178,337	106,437	
1647 GRIZZLY-CAPTAIN JACK NO 1 ML KLAMATH CO	942,373	-	
1648 GRIZZLY-CAPTAIN JACK NO 1 ML LAKE CO	1,106,264	-	
1649 GRIZZLY-SUMMER LAKE NO 1	18,828,765	24,504	57%
1650 GRIZZLY-SUMMER LAKE NO 1 (CROOK CO)	143,465	-	57%
1651 GRIZZLY-SUMMER LAKE NO 1 (DESCHUTES CO)	169,530	-	57%
1652 GRIZZLY-SUMMER LAKE NO 1 (LAKE CO)	339,092	-	57%
1653 JOHN DAY-BIG EDDY NO 1	14,013,194	4,098	
1654 JOHN DAY-GRIZZLY NO 1	13,591,256	46,725	
1655 JOHN DAY-GRIZZLY NO 1 (JEFFERSON CO)	388,527	-	
1656 JOHN DAY-GRIZZLY NO 1 (SHERMAN CO)	549,297	-	
1657 JOHN DAY-GRIZZLY NO 1 (WASCO CO)	401,925	-	
1658 JOHN DAY-GRIZZLY NO 2	9,421,717	30,299	
1659 JOHN DAY-GRIZZLY NO 2 ML JEFFERSON CO	384,011	-	
1660 JOHN DAY-GRIZZLY NO 2 ML SHERMAN CO	576,018	-	
1661 JOHN DAY-GRIZZLY NO 2 ML WASCO CO	411,442	-	
1662 MARION-ALVEY NO 1	6,046,722	11,868	50%
1663 SLATT-JOHN DAY NO 1	328,108	1,615	7%
1664 SLATT-JOHN DAY NO 1 ML GILLIAM CO	18,922	-	7%
1665 SLATT-JOHN DAY NO 1 ML SHERMAN CO	14,101	-	7%
<b>1666 Subtotal Lines</b>	<b><u>311,156,489</u></b>	<b><u>389,899</u></b>	



**Appendix A**  
**BP-22 Rate Case Final Proposal Segmentation Details**

A	B	C	D	
Stations	Investment (\$)	O&M (\$)	Multi %	
1667	ALVEY SUBSTATION	8,613,054	43,894	12%
1668	BAKEOVEN COMPENSATION STATION	25,413,847	72,265	
1669	BIG EDDY 500 KV SWITCHYARD	23,994,802	72,148	
1670	BIG EDDY SUBSTATION	71,089,186	448,531	77%
1671	BUCKLEY SUBSTATION	7,135,715	131,153	64%
1672	CELILO DC CONVERTER STATION	445,515,144	3,583,148	
1673	CHIEF JOSEPH SUBSTATION	1,207,389	9,874	3%
1674	CAPTAIN JACK SUBSTATION	42,893,008	263,524	
1675	DIXONVILLE SUBSTATION	8,088,895	-	
1676	FORT ROCK COMPENSATION STATION	17,678,504	82,413	
1677	GRIZZLY SUBSTATION	33,620,597	553,302	
1678	JOHN DAY SUBSTATION	14,445,669	166,869	27%
1679	MALIN SUBSTATION	30,289,762	148,666	
1680	MARION SUBSTATION	3,594,409	38,032	8%
1681	MERIDIAN SUBSTATION(PACIFICORP)	9,354,973	-	
1682	ROUND MOUNTAIN SUBSTATION	65,046	-	
1683	SAND SPRING COMPENSATION STATION	18,483,819	73,467	
1684	SLATT SUBSTATION	3,052,226	11,775	3%
1685	SUMMER LAKE SUBSTATION	3,896,516	81,693	57%
1686	SYCAN COMPENSATION STATION	16,166,985	124,332	
1687	SYLMAR DC CONVERTER STATION	2,784	-	
1688	<b>Subtotal Stations</b>	<b>784,602,330</b>	<b>5,905,086</b>	
1689	<b>Total Southern Intertie</b>	<b>1,095,758,819</b>	<b>6,294,985</b>	

**Eastern Intertie Facilities**

<b>Transmission Lines</b>				
	Investment (\$)	O&M (\$)	Multi %	
1690	BROADVIEW-GARRISON NO 1	47,280,913	204,239	
1691	BROADVIEW-GARRISON NO 2	46,990,310	160,501	
1692	<b>Subtotal Lines</b>	<b>94,271,222</b>	<b>364,741</b>	

<b>Stations</b>				
	Investment (\$)	O&M (\$)	Multi %	
1693	COLSTRIP SUBSTATION	43,099	1,681	
1694	GARRISON SUBSTATION	27,325,017	248,751	31%
1695	<b>Subtotal Stations</b>	<b>27,368,116</b>	<b>250,431</b>	
1696	<b>Total Eastern Intertie</b>	<b>121,639,338</b>	<b>615,172</b>	

**Utility Delivery Facilities**

<b>Transmission Lines</b>				
	Investment (\$)	O&M (\$)	Multi %	
1697	ALBANY-BUREAU OF MINES NO 1	23,660	1,651	
1698	HOOD RIVER-COOP SERVICE NO 1	268,367	641	
1699	GROUSE CREEK-TECOMA TRANSMISSION LINES & SUBSTATION	117,123	-	6%
1700	<b>Subtotal Lines</b>	<b>409,150</b>	<b>2,292</b>	

<b>Stations</b>				
	Investment (\$)	O&M (\$)	Multi %	
1701	ACTON SUBSTATION	43,859	3,789	18%
1702	ALBANY SUBSTATION	1,938,603	19,297	12%
1703	BANDON SUBSTATION	1,880,064	28,789	33%
1704	BONNERS FERRY SUBSTATION	636,101	13,954	22%
1705	BURBANK SUBSTATION	126,063	2,629	15%
1706	BURNT WOODS SUBSTATION	602,039	5,494	44%
1707	CASCADE LOCKS SUBSTATION	252,354	11,669	39%
1708	DIXIE SUBSTATION	337,515	7,157	45%
1709	DRAIN SUBSTATION	322,557	3,662	10%
1710	GARDINER SUBSTATION	315,372	10,067	34%
1711	GLADE SUBSTATION	326,111	7,283	50%
1712	HARRISBURG SUBSTATION	190,947	819	4%
1713	HOOD RIVER SUBSTATION	564,772	18,086	26%
1714	IONE SUBSTATION	135,510	2,733	14%
1715	LACLEDE SUBSTATION	294,647	9,407	
1716	LANGLOIS SUBSTATION	203,884	7,031	32%
1717	LYNCH CREEK SUBSTATION	545,682	8,624	43%
1718	MAPLETON SUBSTATION	155,228	5,587	14%
1719	MINIDOKA SUBSTATION	246,447	6,196	64%
1720	MONMOUTH SUBSTATION	946,355	26,077	42%
1721	MOUNTAIN AVENUE SUBSTATION	459,383	7,824	22%

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	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
1722 NORTH BENCH SUBSTATION		435,183	4,332	59%
1723 NORTH BUTTE SUBSTATION		86,353	5,675	44%
1724 PARKDALE SUBSTATION		438,552	8,700	29%
1725 PORT ORFORD SUBSTATION		174,549	9,902	37%
1726 POTLATCH SUBSTATION(BPA)		118,148	3,682	11%
1727 REEDSPORT SUBSTATION (BPA)		206,897	5,164	6%
1728 RINGOLD SUBSTATION		118,297	4,008	21%
1729 SANDPOINT SUBSTATION(BPA)		198,146	3,272	15%
1730 SCOOTENEY SUBSTATION		136,876	3,108	8%
1731 SELLE SUBSTATION		512,312	6,216	69%
1732 STEILACOOM SUBSTATION		346,790	5,039	31%
1733 SURPRISE LAKE SUBSTATION		155,330	3,132	20%
1734 SWAN VALLEY SUBSTATION		299,734	1,827	2%
1735 TWO MILE ROAD SUBSTATION		456,726	5,221	29%
1736 TROY SUBSTATION		401,606	14,419	37%
1737 TUMBLE CREEK SUBSTATION		388,364	6,063	28%
1738 WALTON SUBSTATION		352,343	7,267	62%
1739 WINTHROP SUBSTATION		180,015	2,274	12%
1740 YAAK SUBSTATION		1,839,275	12,431	82%
1741 DAVIS CREEK SUBSTATION		471,589	8,415	86%
1742 NECANICUM SUBSTATION		183,289	6,380	54%
1743 STATELINE SUBSTATION		105,755	5,803	75%
1744 <b>Subtotal Stations</b>		<b>18,129,622</b>	<b>338,506</b>	
1745 <b>Total Utility Delivery</b>		<b>18,538,772</b>	<b>340,798</b>	

<b>DSI Delivery Facilities</b>			
	<b>Investment (\$)</b>	<b>O&amp;M (\$)</b>	<b>Multi %</b>
<b>Transmission Lines</b>			
1746 None			
1747 <b>Subtotal Lines</b>	<b>0</b>	<b>0</b>	
<b>Stations</b>			
1748 INTALCO SUBSTATION	6,655,457	104,499	29%
1749 TRENTWOOD SUBSTATION	1,308,478	22,555	18%
1750 <b>Subtotal Stations</b>	<b>7,963,935</b>	<b>127,054</b>	
1751 <b>Total DSI Delivery</b>	<b>7,963,935</b>	<b>127,054</b>	

<b>Unsegmented Facilities (segmented pro-rata)</b>			
	<b>Investment (\$)</b>	<b>O&amp;M (\$)</b>	<b>Multi %</b>
<b>Transmission Lines (allocated by direct line segmentation)</b>			
1752 BALD MOUNTAIN-CONDIT FIBER SYSTEM	6,914	-	
1753 BELL-BOUNDARY FIBER SYSTEM	1,194,071	-	
1754 BELLINGHAM-CUSTER FIBER SYSTEM	128,524	-	
1755 BELL-NOXON FIBER SYSTEM	44,711	-	
1756 BIG EDDY-WAUTOMA FIBER SYSTEM	101,575	-	
1757 BPA SYSTEM-LINES	6,001,056	54,462	
1758 CHENOWETH-HARVEY NO 1	65,831	99	
1759 CHENOWETH-HARVEY NO 2	81,980	74	
1760 CHRISTOPHER TAP TO TACOMA-COVINGTON-4 (RETIRED)	61,063	-	
1761 CONKELLY TAP TO HUNGRY HORSE-COLUMBIA FALLS NO 1 (OBSOLETE)	2,743	-	
1762 COTTAGE GROVE-DRAIN NO 1 (RETIRED)	312,761	-	
1763 COVINGTON-BELL FIBER SYSTEM	80,126	-	
1764 COVINGTON-MAPLE VALLEY FIBER SYSTEM	17,342	-	
1765 FIDALGO-BELLINGHAM FIBER SYSTEM (BLACK ROCK CABLE INC)	-	-	
1766 FOUR LAKES TAP TO SUNSET-EAST COLFAX	0	5,677	
1767 FRANKLIN-HATWAI FIBER SYSTEM	203,341	-	
1768 FRANKLIN-HATWAI FIBER SYSTEM (ML GARFILED CO)	28,924	-	
1769 FRANKLIN-MUNRO FIBER SYSTEM	185,538	-	
1770 FRANZ HOLMES TAP TO COWLITZ-LAGRANDE NO 1,2	-	-	
1771 FRANZ HOLMES TAP TO COWLITZ-CANYON NO 1,2	293,069	-	
1772 GRAND COULEE 115KV-GRAND COULEE RS FIBER SEG	18,644	-	
1773 JACKSON TAP TO CANAL-SECOND LIFT NO. 1(SOLD)	47,234	684	
1774 KALISPELL-HOT SPRINGS FIBER OPTIC SYSTEM	216,126	-	
1775 KEELER-ALVEY FIBER SYSTEM	1,018,867	-	
1776 KEELER-COVINGTON FIBER SYSTEM	840,443	-	
1777 KEELER-PENNWALT NO 1(DEENERGIZED)	0	-	
1778 LANE-FAIRVIEW FIBER SYSTEM	1,889	180	

**Appendix A**  
**BP-22 Rate Case Final Proposal Segmentation Details**

A	B	C	D
1779 LOPEZ ISLAND-DECATUR NO 1	1,203,825	-	
1780 MARION-SANTIAM 2 (DEENERGIZED)	615,992	-	
1781 NOXON-TAFT FIBER SYSTEM	357,479	-	
1782 OREGON CITY STUB 20/7-23/12 SECTION(DEENERGIZED)	155	-	
1783 PASCO-FRANKLIN DARK FIBER	70,744	-	
1784 PEARL-TROUTDALE FIBER SYSTEM	113,714	-	
1785 REEDSPORT-TAHKENITCH FIBER SYSTEM	24,936	761	
1786 ROSS-FRANKLIN FIBER SYSTEM	8,168,654	-	
1787 ROSS-MALIN FIBER SYSTEM	4,670,521	-	
1788 SANTIAM-LYONS UHV XFMR 1	126,000	-	
1789 SWAN VALLEY-SWAN VALLEY RS FIBER SYSTEM	6,690	-	
1790 T1 TOLEDO/REEDSPORT CIRCUIT	64,179	-	
1791 TAFT-BALD MOUNTAIN FIBER OPTIC SYSTEM	2,913,818	-	
1792 TUMBLE CREEK-HALL RIDGE NO.1	610,574	57	
1793 WALNUT CITY TAP TO FOREST-GROVE-MCMINNVILLE NO 1	318,013	2,417	
1794 <b>Subtotal Lines</b>	<b>30,218,065</b>	<b>64,412</b>	
<b>Stations (allocated according to direct station segmentation)</b>	<b>Investment (\$)</b>	<b>O&amp;M (\$)</b>	<b>Multi %</b>
1795 ADDY SUBSTATION	1,245,242	12,081	10%
1796 ALCOA SUBSTATION	485,258	11,609	5%
1797 ANACONDA SUBSTATION	10,441,251	42,148	
1798 APPLEWAY (INACTIVE)	24,252	-	
1799 ARGENT(INACTIVE)	55,722	-	
1800 BAYSHORE SUBSTATION(RETIRED)	19,501	-	
1801 BURBANK SUBSTATION	11,348	237	1%
1802 CAPE HORN(INACTIVE)	14,135	-	
1803 CENTRALIA START UP(INACTIVE)	13,477	-	
1804 EAGLE LAKE SUBSTATION	450,321	23,862	
1805 FOSTER (INACTIVE)	4,456	-	
1806 GLADE SUBSTATION	35,615	795	5%
1807 KAMILCHE SUBSTATION (RETIRED)	49,049	-	
1808 KIONA HYDROMET STATION	6,709	-	
1809 NORWAY SUBSTATION	13,242	12,903	
1810 PAUL D. JOHNSON SUBSTATION	2,847,803	11,812	
1811 RINGOLD SUBSTATION	28,890	979	5%
1812 SYSTEM WIDE	3,311,122	9,115,394	
1813 TACOMA SUBSTATION	312,690	3,036	1%
1814 TRENTWOOD SUBSTATION	15,086	260	
1815 VALHALLA SUBSTATION	317,754	4,040	6%
1816 WESTSIDE SUBSTATION(BPA)	7,004,050	34,026	
1817 <b>Subtotal Stations</b>	<b>26,706,974</b>	<b>9,273,182</b>	
<b>Other Locations (allocated by direct station segmentation)</b>	<b>Investment (\$)</b>		
1818 ALBERTON RADIO STATION	290,137		
1819 ALVEY HILL RADIO STATION(INACTIVE)	-		
1820 ALVEY MAINTENANCE HEADQUARTERS	5,494,284		
1821 ASHTON HILL RADIO STATION	234,506		
1822 AUGSPURGER MOUNTAIN RADIO STATION	11,893		
1823 BALD MOUNTAIN RADIO STATION	130,284		
1824 BEARMOUTH RADIO STATION	531,825		
1825 BELL HEATLINE	4,661		
1826 BELL MAINTENANCE HEADQUARTERS	536,791		
1827 BIDDLE BUTTE RADIO STATION	163,480		
1828 BLUE RIDGE RADIO STATION	91,805		
1829 BLYN RADIO STATION	49,178		
1830 BOISTFORT PEAK RADIO STATION(WEYERHOUSER)	0		
1831 BPA SYSTEM	14,647,268		
1832 BPA SYSTEM-MICROWAVE &RADIO STATIONS	182,611		
1833 BPA SYSTEM-NON ELECTRIC PLANT& MISC	4,919,823		
1834 BURLEY MAINTENANCE HEADQUARTERS	6,969		
1835 CAPE BLANCO RADIO STATION (BPA)	58,688		
1836 CAPE BLANCO RADIO STATION(INACTIVE)	-		
1837 CHANNEL EQUIPMENT AT SITES	678,444		
1838 CHEHALIS MAINTENANCE HEADQUARTERS	88,062		

**Appendix A**  
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A	B	C	D
1839	CHEMAWA MAINTENANCE HEADQUARTERS	74,117	
1840	COVINGTON MAINTENANCE HEADQUARTERS	15,113	
1841	COYOTE HILLS RADIO STATION	25,472	
1842	CULDESAC RADIO STATION	6,995	
1843	CYRUS NOE RADIO STATION	358,292	
1844	DECATUR EAST RADIO STATION	50,787	
1845	DECATUR WEST RADIO STATION	47,229	
1846	DEL RIO RADIO STATION	13,084	
1847	DITTMER BPA SYSTEM CONTROL CENTER	20,956,684	
1848	EASTERN CONTROL CENTER	32,523	
1849	EUGENE C. STARR COMPLEX	9,922,339	
1850	FIVE VEHICLES	120,040	
1851	GRAND COULEE RADIO STATION	47,372	
1852	GRANITE MOUNTAIN RADIO STATION	144,812	
1853	GREEN MOUNTAIN PASSIVE REPEATER SITE	3,007	
1854	HAYSTACK BUTTE RADIO STATION	372,133	
1855	HORSE ROCK RADIO STATION	(2,444)	
1856	KAHLOTUS RADIO STATION	370,232	
1857	KALISPELL MAINTENANCE HEADQUARTERS	29,664	
1858	KEELER MAINTENANCE HEADQUARTERS	40,199	
1859	KENNEWICK RADIO STATION	49,374	
1860	KENYON MOUNTAIN RADIO STATION	66,849	
1861	LAKESIDE RADIO STATION	-	
1862	LEWISTON MAINTENANCE HEADQUARTERS	59,008	
1863	LONGVIEW ANNEX I	4,813,011	
1864	LONGVIEW ANNEX II	0	
1865	LONGVIEW MAINTENANCE HEADQUARTERS	6,039,348	
1866	LOWELL BUTTE RADIO STATION	7,559	
1867	LOWER COLUMBIA AREA OFFICE(INACTIVE)	-	
1868	MALAGA RADIO STATION	17,384	
1869	MALIN MAINTENANCE HEADQUARTERS	398,113	
1870	MARYS PEAK RADIO STATION	5,002	
1871	MEGLER RADIO STATION	11,556	
1872	MILLER PEAK RADIO STATION	748,973	
1873	MINT FARM GENERATING PLANT (INACTIVE)	36,768	
1874	MT. HEBO RADIO STATION	12,244	
1875	MUNRO BPA SYSTEM CONTROL CENTER	8,648,519	
1876	NASELLE RIDGE RADIO STATION	295,505	
1877	NEKITPE MAINTENANCE HEADQUARTERS	3,521,068	
1878	NORTH BEND MAINTENANCE HEADQUARTERS	723,564	
1879	NORTH BONNEVILLE ANNEX	29,495	
1880	ODELL BUTTE RADIO STATION	92,507	
1881	OLYMPIA MAINTENANCE HEADQUARTERS	166,376	
1882	OSTRANDER PASSIVE REPEATER SITE	25,022	
1883	PASCO MAINTENANCE HEADQUARTERS	181,086	
1884	PATRICKS KNOB RADIO STATION	251,396	
1885	POMEROY RADIO STATION	458,885	
1886	RACK SPACE FOR BPA COMM EQUIP	49,615	
1887	RAYMOND RADIO STATION	-	
1888	REDMOND MAINTENANCE HEADQUARTERS	292,041	
1889	ROCKDALE PASSIVE REPEATER N1 SITE	85,587	
1890	ROCKY RIDGE RADIO STATION	551,991	
1891	ROOSEVELT RADIO STATION	13,534	
1892	ROSS AMPERE BUILDING	822,365	
1893	ROSS COMPLEX	35,860,347	
1894	ROSS CONSTRUCTION AND SERVICES BUILDING	153,407	
1895	ROSS FOG TEST BUILDING	81,579	
1896	ROSS HEATLINE	6,853,017	
1897	ROSS MAINTENANCE HEADQUARTERS	5,804,613	
1898	ROSS MOBILE STORAGE	8,112	
1899	ROSS RADIO STATION	7,516	
1900	RUBY MOUNTAIN	108,499	
1901	SCHULTZ MAINTENANCE HEADQUARTERS	1,377,094	
1902	SCOTT MOUNTAIN RADIO STATION	87,309	
1903	SEATTLE RADIO STATION	3,939	
1904	SICKLER MAINTENANCE HEADQUARTERS	50012.07	

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A	B	C	D
1905	SKYROCKET RADIO STATION	6,481	
1906	SNAKE RIVER AREA OFFICE(INACTIVE)	0	
1907	SNOHOMISH MAINTENANCE HEADQUARTERS	58,551	
1908	SOUTH MOUNTAIN RADIO STATION	2,770	
1909	SPOKANE HANGAR	75,378	
1910	SQUAK MOUNTAIN RADIO STATION	4,272	
1911	TACOMA PUBLIC UTILITIES DISPATCH CENTER	36,618	
1912	TACOMA RADIO STATION	158,688	
1913	THE DALLES OPERATING DISTRICTHEADQUARTERS	0	
1914	WALKER MOUNTAIN RADIO STATION	625,240	
1915	WEST PORTLAND RADIO STATION	51,705	
1916	<b>Subtotal Other</b>	<b><u>140,637,249</u></b>	
	<b>Emergency Stock (allocated by direct sub segmentation)</b>	<b>Investment (\$)</b>	
1917	ROSS WAREHOUSE	<u>14,660,618</u>	
1918	<b>Subtotal Emergency Stock</b>	<b><u>14,660,618</u></b>	
<b>Depreciable Land</b>			
	<b>Station Land (segmented to Network)</b>	<b>Investment (\$)</b>	<b>Multi %</b>
1919	DWORSHAK SUBSTATION	50,372	82%
1920	LA PINE SUBSTATION	18,619	
1921	MARTIN CREEK SUBSTATION	11,808	
1922	NOXON CONSTRUCTION SUBSTATION	1	
1923	SIFTON SUBSTATION	12,810	
1924	OKANOGAN SUBSTATION	14,156	
1925	CONDON WIND SUBSTATION(SEAWEST)	44,431	
1926	<b>Subtotal Network Station Land</b>	<b><u>152,197</u></b>	
	<b>Station Land (segmented to Generation Integration)</b>	<b>Investment (\$)</b>	<b>Multi %</b>
1927	DWORSHAK SUBSTATION	9,146	18%
1928	<b>Subtotal Generation Integration Station Land</b>	<b><u>9,146</u></b>	
	<b>Transmission Line Land (segmented to Network)</b>	<b>Investment (\$)</b>	
1929	ALBANY-BURNT WOODS NO 1	307,619	
1930	ANDERSON RANCH-MOUNTAIN HOME NO 1	60,166	
1931	ASHE-SLATT NO 1	19,806	
1932	BELL-ADDY NO 1	5,046	
1933	BELL-BOUNDARY NO 3	5,046	
1934	BELL-LANCASTER NO 1	8,276	
1935	BIG EDDY-QUENETT CREEK NO 1	387,831	
1936	BIG EDDY-QUENETT CREEK NO 2	387,596	
1937	BIG EDDY-SPRING CREEK NO 1	391,887	
1938	CHEHALIS-OLYMPIA NO 1	793	
1939	CHEHALIS-RAYMOND NO 1	47,011	
1940	CHIEF JOSEPH-EAST OMAK NO 1	10,724	
1941	CHIEF JOSEPH-MONROE NO 1	141,953	
1942	CHIEF JOSEPH-SNOHOMISH NO 3	31,581	
1943	COLUMBIA-ELLENSBURG NO 1	181,965	
1944	COLVILLE-REPUBLIC NO 1	31,460	
1945	COVINGTON-MAPLE VALLEY FIBER SYSTEM	23,437	
1946	DE MOSS-FOSSIL NO 1	320	
1947	DETROIT-SANTIAM NO 1	677	
1948	DWORSHAK PH-OROFINO NO 1	400	
1949	EAST OMAK TAP TO GRAND COULEE-FOSTER CREEK NO 1	174,817	
1950	FAIRVIEW-BANDON NO 2	1,602	
1951	FIDALGO-LOPEZ ISLAND NO 5	63,802	
1952	FLATHEAD-HOT SPRINGS NO 1	10,728,941	
1953	FOREST GROVE-TILLAMOOK NO 1	1,731	
1954	FRANKLIN-BADGER CANYON NO 1	1,432	
1955	FRANKLIN-HATWAI FIBER SYSTEM	82,675	
1956	GARRISON-ANACONDA NO 1	149,847	
1957	GOSHEN-DRUMMOND NO 1	3,924	
1958	GRAND COULEE-BELL NO 5	2,114,751	
1959	GRAND COULEE-CRESTON NO 1	6,053	
1960	GRAND COULEE-HANFORD NO 1	14,375	

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	A	B	C	D
1961 GRAND COULEE-OKANOGAN NO 2		470		
1962 GRAND COULEE-SCHULTZ NO 1		24,380		
1963 GRANDE ROND-BOYER NO 1		59,555		
1964 HARVALUM-BIG EDDY NO 1		19,142,567		
1965 HORSE HEAVEN-HARVALUM NO 1		387,596		
1966 HOT SPRINGS-GARRISON FIBER SYSTEM		58,561		
1967 HOT SPRINGS-RATTLESNAKE NO 1		6,007,072		
1968 HUNGRY HORSE-CONKELLEY NO 1		6,043		
1969 JOHN DAY-BIG EDDY NO 1		277,261		
1970 KEELER-OREGON CITY NO 2		8,729		
1971 KELLER TAP TO GRAND COULEE-OKANOGAN NO 2		3,200		
1972 KLONDIKE SCHOOLHOUSE-JOHN DAY NO 1		657,883		
1973 LANCASTER-NOXON NO 1		82,527		
1974 LAPINE-CHILOQUIN NO 1		-		
1975 LIBBY-BONNERS FERRY NO 1		17,012		
1976 LONGVIEW-WASHINGTON WAY NO 1		211,016		
1977 LOWER MONUMENTAL-MCNARY NO 1		1,071		
1978 MCNARY-ROSS NO 1		387,596		
1979 MIDWAY-GRANDVIEW NO 1		13,005		
1980 MIDWAY-MOXEE NO 1		33,307		
1981 MONROE-CUSTER NO 1		119,377		
1982 NASELLE-TARLETT NO 1		2,036		
1983 NORTH BONNEVILLE-TROUTDALE NO 1		75,139		
1984 NOXON-HOT SPRINGS NO 1		1,672		
1985 OLYMPIA-GRAND COULEE NO 1		16,745		
1986 OLYMPIA-SATSOP NO 3		27,986		
1987 OSTRANDER-PEARL NO 1		45,358		
1988 PALISADES-CATTLE CREEK NO 1		89,749		
1989 PAUL-ALLSTON NO 2		236		
1990 PENDLETON-LAGRANDE (INACTIVE)		195		
1991 RAVEN-COVINGTON NO 2		387,596		
1992 RAYMOND-COSMOPOLIS NO 1		36,335		
1993 RAYMOND-HENKLE ST. NO 1		38,002		
1994 REEDSPORT-FAIRVIEW NO 1		90,790		
1995 ROCKY REACH-MAPLE VALLEY NO 1		210,071		
1996 ROSS-FRANKLIN FIBER SYSTEM		97,757		
1997 ROSS-LEXINGTON NO 1		82,898		
1998 ROUNDUP-LAGRANDE NO 1		645,809		
1999 SALEM-ALBANY NO 1		12,821		
2000 SALEM-ALBANY NO 2		161,315		
2001 SANTIAM-TOLEDO NO 1		78,122		
2002 SCHULTZ-WAUTOMA NO 1		2,277,742		
2003 SPAR CANYON - ROUND VALLEY		56,208		
2004 SPIRIT TAP TO COLVILLE-BOUNDARY NO 1		24,206		
2005 SWAN VALLEY-TETON NO 1		54,679		
2006 TAFT-BELL NO 1		133,069		
2007 TUCANNON RIVER-NORTH LEWISTON NO 1		862,880		
2008 WALLA WALLA-PENDLETON NO 1		126,393		
2009 WALLA WALLA-TUCANNON RIVER NO 1		1,340		
2010 WAUTOMA-KNIGHT NO 1		11,853		
2011 WAUTOMA-ROCK CREEK NO 1		391,431		
2012 <b>Subtotal Network Line Land</b>		<b><u>48,926,206</u></b>		

<b>Transmission Line Land (segmented to Generation Integration)</b>	<b>Investment (\$)</b>
2013 ANDERSON RANCH-MOUNTAIN HOME NO 1	60,166
2014 DETROIT-SANTIAM NO 1	677
2015 <b>Subtotal GI Line Land</b>	<b><u>60,843</u></b>

<b>Transmission Line Land (segmented pro-rata)</b>	<b>Investment (\$)</b>
2016 COVINGTON-MAPLE VALLEY FIBER SYSTEM	23,437
2017 FRANKLIN-HATWAI FIBER SYSTEM	82,675
2018 ROSS-FRANKLIN FIBER SYSTEM	97,757
2019 <b>Subtotal Line Land pro-rata</b>	<b><u>203,868</u></b>

**Appendix A**  
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A	B	C	D
			<b>Investment (\$)</b>
	<b>Other Facility Land (segmented pro-rata)</b>		
2020	ALBION BUTTE RADIO STATION		98,914
2021	APPLEGATE BUTTE RADIO STATION		49,780
2022	BOISTFORT PEAK RADIO STATION(WEYERHOUSER)		9,081
2023	BONANZA RADIO STATION (FAA)		58,971
2024	CAPE BLANCO RADIO STATION (BPA)		118,992
2025	CAPITOL PEAK RADIO STATION(BPA)		-
2026	ELLIS RADIO STATION		-
2027	GRANITE MOUNTAIN RADIO STATION		-
2028	HAYSTACK BUTTE RADIO STATION		387,596
2029	INDIAN MOUNTAIN RADIO STATION		72,672
2030	MICA PEAK RADIO STATION		18,926
2031	SEVEN MILE HILL METEOROLOGICAL TOWER		-
2032	SICKLER PASSIVE REPEATER SITE		-
2033	SWAN LAKE POINT RADIO STATION		53,959
2034	TECTONIC RADIO STATION		93,489
2035	<b>Subtotal Other pro-rata</b>		<b><u>962,379</u></b>

<b>Ancillary Service Facilities</b>			
			<b>Investment (\$)</b>
	<b>Communication and Control Equipment ***</b>		
2036	ABERDEEN SUBSTATION		-
2037	ADAIR SUBSTATION(BPA)		-
2038	ADDY SUBSTATION		140,927
2039	ADEL RADIO STATION		-
2040	ALBANY SUBSTATION		-
2041	ALBENI FALLS SUBSTATION		5,807
2042	ALCOA SUBSTATION		(0)
2043	ALFALFA SUBSTATION		-
2044	ALLSTON SUBSTATION		243,680
2045	ALVEY SUBSTATION		1,013,201
2046	ANACONDA SUBSTATION		-
2047	ASHE SUBSTATION		189,102
2048	BALD MOUNTAIN SUBSTATION		425,844
2049	BANDON SUBSTATION		-
2050	BEAVER SUBSTATION (PGE)		208,785
2051	BELL SUBSTATION		1,460,624
2052	BELLINGHAM SUBSTATION(BPA)		-
2053	BENTON SUBSTATION		-
2054	BETTAS ROAD SUBSTATION		213,160
2055	BIDDLE BUTTE RADIO STATION		19,865
2056	BIG EDDY 500 KV SWITCHYARD		826,843
2057	BIG EDDY SUBSTATION		1,428,974
2058	BOARDMAN SUBSTATION		33,668
2059	BONNERS FERRY SUBSTATION		-
2060	BONNEVILLE BUILDING PORTLAND		92,338
2061	BONNEVILLE POWERHOUSE #1		343,690
2062	BOUNDARY SUBSTATION		211,900
2063	BPA HEADQUARTERS BUILDING		-
2064	BPA SYSTEM		5,278,582
2065	BPA SYSTEM-LINES		-
2066	BPA SYSTEM-NON ELECTRIC PLANT& MISC		57,849
2067	BRASADA SUBSTATION (CENTRAL ELECTRIC COOPERATIVE)		187,017
2068	BRIDGE SUBSTATION		373,917
2069	BUCK BUTTE RADIO STATION		8,923
2070	BUCKLEY SUBSTATION		294,965
2071	CALPINE SUBSTATION		432,496
2072	CAPTAIN JACK SUBSTATION		3,306,784
2073	CARDWELL SUBSTATION		-
2074	CARLTON SUBSTATION		0
2075	CASCADE STEEL SUBSTATION		7,187
2076	CATTLE CREEK SWITCHING STATION		317,813
2077	CELILO DC CONVERTER STATION		1,212,169
2078	CENTRAL FERRY SUBSTATION		76,816
2079	CHEHALIS RADIO STATION		2,057
2080	CHEHALIS SUBSTATION		91,500

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	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
2081	CHEMAWA SUBSTATION	13,792		
2082	CHENOWETH SUBSTATION	481,419		
2083	CHIEF JOSEPH SUBSTATION	1,883		
2084	COLUMBIA FALLS ALUMINUM COMPANY SUBSTATION	-		
2085	COLUMBIA FALLS SUBSTATION -- 115 YARD	-		
2086	COLUMBIA FALLS SUBSTATION - 230 KV YARD	103,974		
2087	COLUMBIA SUBSTATION	782,921		
2088	COLVILLE SUBSTATION	-		
2089	CONDON SUBSTATION	29,512		
2090	CONDON WIND SUBSTATION(SEAWEST)	283,503		
2091	CONKELLEY SUBSTATION	103,189		
2092	CONNELL SUBSTATION	-		
2093	COSMOPOLIS SUBSTATION	-		
2094	COVINGTON SUBSTATION	204,183		
2095	COWLITZ SUBSTATION	0		
2096	COYOTE SPRINGS SUBSTATION	(0)		
2097	CRESTON SUBSTATION(BPA)	218,479		
2098	CULDESAC RADIO STATION	533		
2099	CUSICK SUBSTATION	-		
2100	CUSTER SUBSTATION	266,398		
2101	DAY MT. SPOKANE	42,737		
2102	DE MOSS SUBSTATION(BPA)	199,968		
2103	DEER PARK SUBSTATION	-		
2104	DITTMER BPA SYSTEM CONTROL CENTER	103,051,294		
2105	DIXON SUBSTATION	-		
2106	DRAIN SUBSTATION	16,206		
2107	DRISCOLL SUBSTATION	46,177		
2108	DRUMMOND SUBSTATION	421,226		
2109	DWORSHAK POWERHOUSE	130,599		
2110	DWORSHAK SUBSTATION	601,088		
2111	EAST OMAK SUBSTATION	388,727		
2112	EASTERN CONTROL CENTER	3,697		
2113	EASTSIDE SYSTEM CONTROL CENTER(PSE)	8,768		
2114	ECHO LAKE SUBSTATION	112,187		
2115	ELLENSBURG SUBSTATION	138,588		
2116	EUGENE C. STARR COMPLEX	31,743		
2117	EUGENE SUBSTATION	59,601		
2118	FAIRMOUNT SUBSTATION	196,774		
2119	FAIRVIEW SUBSTATION(BPA)	28,825		
2120	FIDALGO SUBSTATION	-		
2121	FLATHEAD SUBSTATION(BPA & FLATHEAD ELEC)	622,142		
2122	FOREST GROVE SUBSTATION	460,950		
2123	FORT ROCK COMPENSATION STATION	1,957,987		
2124	FORT ROCK SUBSTATION (MIDSTATE ELECTRIC COOP)	27,484		
2125	FOSSIL SUBSTATION	68,698		
2126	FRANKLIN SUBSTATION	86,746		
2127	FREEWATER SUBSTATION(BPA)	9,568		
2128	GARRISON SUBSTATION	3,176,976		
2129	GOSHEN SUBSTATION(PACIFICORP)	-		
2130	GOSHEN SUBSTATION(UTAH POWER & LIGHT)	324,473		
2131	GRAND COULEE 115 KV SWITCHYARD	868,707		
2132	GRAND COULEE 230 KV SWITCHYARD	709,551		
2133	GRAND COULEE 500 KV SWITCHYARD	167,375		
2134	GRAND COULEE RADIO STATION	208,028		
2135	GRAND COULEE SUBSTATION	-		
2136	GRAND COULEE THIRD POWERHOUSE	-		
2137	GRANDVIEW SUBSTATION	203,820		
2138	GREEN PETER SUBSTATION	-		
2139	GRIZZLY MOUNTAIN RADIO STATION	-		
2140	GRIZZLY SUBSTATION	-		
2141	HALF MOON SUBSTATION(INLAND POWER & LIGHT)	-		
2142	HANFORD SUBSTATION	894,903		
2143	HAPPY CAMP RADIO STATION(PG&E)	44,805		
2144	HAPPY VALLEY SUBSTATION	-		
2145	HARNEY SUBSTATION(BPA)	(0)		
2146	HARRISBURG SUBSTATION	21,040		



**Appendix A**  
**BP-22 Rate Case Final Proposal Segmentation Details**

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
2147 HARVALUM SUBSTATION		-		
2148 HARVEY SUBSTATION		-		
2149 HAT ROCK SUBSTATION		150,853		
2150 HATWAI SUBSTATION		515,460		
2151 HAY CANYON SUBSTATION (IBERDOLA)		52,792		
2152 HEYBURN SUBSTATION		312,945		
2153 HILLTOP SUBSTATION		30,653		
2154 HOLCOMB SUBSTATION		0		
2155 HOOD RIVER SUBSTATION		0		
2156 HOPKINS RIDGE SUBSTATION		214,034		
2157 HORN BUTTE SUBSTATION (INVENERGY WIND)		245,607		
2158 HORSE HEAVEN SUBSTATION		579,692		
2159 HOT SPRINGS SUBSTATION		611,044		
2160 HUNGRY HORSE POWERHOUSE		468,842		
2161 INTALCO SUBSTATION		0		
2162 IONA BUTTE RADIO STATION		2,590		
2163 JOHN DAY SUBSTATION		746,272		
2164 JONES CANYON SUBSTATION		568,665		
2165 KALISPELL SUBSTATION(BPA)		272,842		
2166 KEELER SUBSTATION		1,392,651		
2167 KENNEWICK RADIO STATION		3,749		
2168 KITSAP SUBSTATION		4,522		
2169 KNIGHT SUBSTATION		119,442		
2170 LA GRANDE SUBSTATION		69,987		
2171 LA PINE SUBSTATION		85,617		
2172 LANCASTER SUBSTATION(BPA)		116,312		
2173 LANE SUBSTATION		0		
2174 LEBANON SUBSTATION		81,133		
2175 LEWISTON MAINTENANCE HEADQUARTERS		0		
2176 LEXINGTON SUBSTATION		982,693		
2177 LIBBY SUBSTATION(BPA)		12,845		
2178 LITTLE GOOSE POWERHOUSE		26,862		
2179 LITTLE GOOSE SUBSTATION		1,307,473		
2180 LONGVIEW SUBSTATION		339,853		
2181 LOOKOUT POINT SUBSTATION		0		
2182 LOPEZ ISLAND SUBSTATION(BPA)		0		
2183 LOST RIVER SUBSTATION		9,581		
2184 LOWER GRANITE SUBSTATION		281,925		
2185 LOWER MONUMENTAL SUBSTATION		736,001		
2186 MACKS INN SUBSTATION		8,757		
2187 MALIN MAINTENANCE HEADQUARTERS		18,700		
2188 MALIN SUBSTATION		50,775		
2189 MAPLE VALLEY SUBSTATION		74,825		
2190 MARION SUBSTATION		5,396		
2191 MARTIN CREEK SUBSTATION		337,455		
2192 MAUPIN SUBSTATION		259,555		
2193 MCLOUGHLIN SUBSTATION		77,459		
2194 MCMINNVILLE SUBSTATION		0		
2195 MCNARY SUBSTATION		2,146,094		
2196 MERIDIAN SUBSTATION(PACIFICORP)		0		
2197 MIDWAY SUBSTATION(BPA)		2,278,524		
2198 MINIDOKA POWERHOUSE		310,916		
2199 MINT FARM SWITCHING STATION		144,203		
2200 MONMOUTH SUBSTATION		0		
2201 MONROE SUBSTATION		1,052,134		
2202 MORROW FLAT		482,325		
2203 MOXEE SUBSTATION		849,569		
2204 MT. HEBO RADIO STATION		147		
2205 MT. SPOKANE RADIO STATION(AVISTA)		0		
2206 MUNRO BPA SYSTEM CONTROL CENTER		30,559,654		
2207 MURRAY SUBSTATION		8,847		
2208 NAPAVINE SUBSTATION		129,951		
2209 NASELLE SUBSTATION		188,956		
2210 NINE CANYON SUBSTATION (BENTON PUD)		209,461		
2211 NINE MILE SUBSTATION (FPLE)		82,511		
2212 NORTH BONNEVILLE SUBSTATION		240,098		

**Appendix A**  
**BP-22 Rate Case Final Proposal Segmentation Details**

A	B	C	D
2213 NOXON CONSTRUCTION SUBSTATION	0		
2214 OLYMPIA SUBSTATION	67,134		
2215 OREGON CITY SUBSTATION	13,715		
2216 OSTRANDER PASSIVE REPEATER SITE	0		
2217 OSTRANDER SUBSTATION	43,391		
2218 PALISADES POWERHOUSE	31,408		
2219 PAUL SUBSTATION	237,406		
2220 PEARL SUBSTATION	179,014		
2221 PLUM RADIO STATION	60,316		
2222 POMEROY SUBSTATION(BPA)	0		
2223 PONDEROSA SUBSTATION(BPA)	836,436		
2224 PORT ANGELES SUBSTATION(BPA)	617,681		
2225 PORT ORFORD SUBSTATION	0		
2226 POTHOLE SUBSTATION	209,986		
2227 QUENETT CREEK SUBSTATION	579,135		
2228 RATTLESNAKE SUBSTATION(MPC)	93,655		
2229 RAVER SUBSTATION	149,719		
2230 RAYMOND SUBSTATION	192,560		
2231 RED MOUNTAIN SUBSTATION	438,267		
2232 REDMOND SUBSTATION(BPA)	120,259		
2233 REEDSPORT SUBSTATION (BPA)	202,838		
2234 RICHLAND SUBSTATION	0		
2235 ROCK CREEK SUBSTATION	167,443		
2236 ROCKY REACH SWITCHYARD	0		
2237 ROGUE SUBSTATION	454,162		
2238 ROSS AMPERE BUILDING	36,338		
2239 ROSS COMPLEX	0		
2240 ROSS SUBSTATION	726,261		
2241 ROUND VALLEY SUBSTATION	270,037		
2242 ROUNDUP SUBSTATION	85,156		
2243 SACAJAWEA SUBSTATION	469,560		
2244 SACHEEN SUBSTATION	212,152		
2245 SALEM SUBSTATION (SALEM ELEC & BPA)	223,880		
2246 SAND CREEK SUBSTATION	0		
2247 SAND DUNES SUBSTATION	0		
2248 SAND SPRING COMPENSATION STATION	2,234,517		
2249 SANDPOINT SUBSTATION(BPA)	0		
2250 SANTIAM SUBSTATION	546,829		
2251 SAPPHO SUBSTATION	4,868		
2252 SATSOP PARK SUBSTATION (GHPUD)	138,914		
2253 SATSOP SUBSTATION(BPA)	455,653		
2254 SCHULTZ SUBSTATION	84,767		
2255 SEDRO WOOLLEY SUBSTATION	25,481		
2256 SHANO SUBSTATION	4,255		
2257 SHELTON SUBSTATION	210,057		
2258 SICKLER SUBSTATION	117,512		
2259 SIFTON SUBSTATION	(0)		
2260 SILVER CREEK SUBSTATION	235,115		
2261 SKYROCKET RADIO STATION	0		
2262 SLATT SUBSTATION	381,029		
2263 SNOHOMISH SUBSTATION	518,459		
2264 SNO-KING SUBSTATION	155,096		
2265 SOUTH TACOMA SUBSTATION	187,314		
2266 SPAR CANYON SUBSTATION	8,749		
2267 SPRING CREEK SUBSTATION	249,899		
2268 ST. JOHNS SUBSTATION	0		
2269 STEILACOOM SUBSTATION	0		
2270 SUBSTATION X	254,995		
2271 SUMMER LAKE SUBSTATION	0		
2272 SWAN VALLEY RADIO STATION	8,904		
2273 SWAN VALLEY SUBSTATION	280,954		
2274 SYCAN COMPENSATION STATION	1,197,723		
2275 SYSTEM WIDE	417,373		
2276 TACOMA RADIO STATION	15,376		
2277 TACOMA SUBSTATION	131,811		
2278 TAFT SUBSTATION	379,548		

**Appendix A**  
**BP-22 Rate Case Final Proposal Segmentation Details**

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
2279 TAHKENITCH SUBSTATION		9,660		
2280 TARGHEE SUBSTATION		291,479		
2281 TEAKEAN BUTTE RADIO STATION		66,706		
2282 TETON SUBSTATION		544,191		
2283 THE DALLES POWERHOUSE		241,133		
2284 THE DALLES SUBSTATION		0		
2285 TILLAMOOK SUBSTATION		25,845		
2286 TINCUP SUBSTATION		147,498		
2287 TOLEDO SUBSTATION		299,940		
2288 TRENTWOOD SUBSTATION		0		
2289 TROUTDALE SUBSTATION(BPA)		386,709		
2290 TUCANNON RIVER SUBSTATION		402,504		
2291 UNITY SUBSTATION(BPA)		8,457		
2292 USK SUBSTATION(BPA)		308,498		
2293 VALHALLA SUBSTATION		715,402		
2294 VANSYCLE RIDGE WIND GENERATION FACILITY		68,676		
2295 VANTAGE SUBSTATION		950,015		
2296 WALLA WALLA SUBSTATION(BPA)		339,134		
2297 WARNER SUBSTATION		134,279		
2298 WAUTOMA SUBSTATION		615,923		
2299 WENDSON SUBSTATION		303,201		
2300 WEST PORTLAND RADIO STATION		0		
2301 WEYERHAEUSER INDUSTRIAL WAY WEYCO NO 1 SUBSTATION (COWLITZ)		0		
2302 WHITE BLUFFS SUBSTATION		499,028		
2303 WHITE CREEK SUBSTATION (KPUD)		436,404		
2304 WILLIS SUBSTATION (KPUD)		353,448		
2305 WINE COUNTRY SUBSTATION		162,189		
2306 WOODLAND SWITCHING STATION		0		
2307 <b>Total Ancillary Service</b>		<b><u>208,460,404</u></b>		

\*\*\* FERC Account 353(1) Control, 391(2.2) Hardware, 391(3.2) Software, and 397(104,108) SCADA Communications

**Appendix A**  
**BP-22 Rate Case Final Proposal Segmentation Details**

A	B	C	D
<u>General Plant Facilities</u>	Investment (\$)		
2308 ABERDEEN SUBSTATION	32,341		
2309 ADDY SUBSTATION	517,514		
2310 ALBANY SUBSTATION	348,985		
2311 ALCOA SUBSTATION	331,169		
2312 ALFALFA SUBSTATION	-		
2313 ALBENI FALLS SUBSTATION	342,254		
2314 ALLSTON SUBSTATION	1,613,349		
2315 ALVEY SUBSTATION	4,972,272		
2316 ANACONDA SUBSTATION	231,073		
2317 ASHE SUBSTATION	6,863,068		
2318 ATHOL SUBSTATION(KOOTENAI ELEC COOP)	-		
2319 BADGER CANYON SUBSTATION	1,318,867		
2320 BAKEOVEN COMPENSATION STATION	20,113		
2321 BANDON SUBSTATION	719,357		
2322 BELLINGHAM SUBSTATION(BPA)	1,607,158		
2323 BELL SUBSTATION	6,316,361		
2324 BENTON SUBSTATION	820,775		
2325 BIG EDDY 500 KV SWITCHYARD	512,815		
2326 BIG EDDY SUBSTATION	3,330,670		
2327 BUCKLEY SUBSTATION	2,012,373		
2328 BOARDMAN SUBSTATION	863,994		
2329 BONNERS FERRY SUBSTATION	-		
2330 BONNEVILLE POWERHOUSE #1	3,513		
2331 BOUNDARY SUBSTATION	3,289,001		
2332 SYSTEM WIDE	76,058,213		
2333 BRIDGE SUBSTATION	271,661		
2334 BURLEY SUBSTATION(CITY OF BURLEY)	-		
2335 CANBY SUBSTATION(BPA)	243,301		
2336 OAK PARK SUBSTATION	-		
2337 CARBORUNDUM SUBSTATION	-		
2338 CARDWELL SUBSTATION	404,899		
2339 CARLTON SUBSTATION	69,640		
2340 CATHLAMET SUBSTATION	17,960		
2341 CELILO DC CONVERTER STATION	7,089,379		
2342 CENTRALIA SUBSTATION	31,477		
2343 CHEHALIS SUBSTATION	2,045,716		
2344 CHEMAWA SUBSTATION	6,587,433		
2345 CHENOWETH SUBSTATION	837,019		
2346 CHIEF JOSEPH SUBSTATION	4,113,802		
2347 CHALLIS SUBSTATION	-		
2348 CHIEF JOSEPH POWERHOUSE	508,107		
2349 CLARK SUB	-		
2350 CLATSKANIE SWITCHING STATION (CLATSKANIE PUD)	-		
2351 CLATSOP SUBSTATION	10,265		
2352 CANAL SUBSTATION	219,977		
2353 COBURG SUBSTATION	140,618		
2354 COLUMBIA FALLS SUBSTATION -- 115 YARD	263,975		
2355 CONKELLEY SUBSTATION	794,094		
2356 COLSTRIP SUBSTATION	-		
2357 COLUMBIA SUBSTATION	3,181,921		
2358 COLVILLE SUBSTATION	856,756		
2359 COSMOPOLIS SUBSTATION	41,800		
2360 COVINGTON SUBSTATION	6,061,849		
2361 COWLITZ SUBSTATION	219,418		
2362 CAPTAIN JACK SUBSTATION	3,055,089		
2363 CRESTON SUBSTATION(BPA)	165,730		
2364 COYOTE SPRINGS SUBSTATION	766,302		
2365 CUSICK SUBSTATION	2,168,514		
2366 CUSTER SUBSTATION	3,161,938		
2367 DECATUR SUBSTATION	134,517		
2368 DE MOSS SUBSTATION(BPA)	525,741		
2369 DIXON SUBSTATION	330,194		
2370 DIXONVILLE SUBSTATION	111,935		
2371 DOUGLAS SWITCHYARD	-		

**Appendix A**  
**BP-22 Rate Case Final Proposal Segmentation Details**

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
2372 DRAIN SUBSTATION		21,211		
2373 DRISCOLL SUBSTATION		411,453		
2374 DRUMMOND SUBSTATION		112,634		
2375 DWORSHAK SUBSTATION		1,394,740		
2376 DWORSHAK POWERHOUSE		1,082,313		
2377 ECHO LAKE SUBSTATION		2,984,747		
2378 ELLENSBURG SUBSTATION		1,025,158		
2379 EAST OMAK SUBSTATION		249,155		
2380 EUGENE SUBSTATION		407,677		
2381 FAIRMOUNT SUBSTATION		874,970		
2382 FAIRVIEW SUBSTATION(BPA)		1,037,225		
2383 FIDALGO SUBSTATION		495,760		
2384 FLATHEAD SUBSTATION(BPA & FLATHEAD ELEC)		243,235		
2385 FOREST GROVE SUBSTATION		279,949		
2386 FORT ROCK COMPENSATION STATION		1,344,396		
2387 FOSTER SUBSTATION		-		
2388 FOSSIL SUBSTATION		1,118,745		
2389 FOSTER CREEK SUBSTATION(NESPELEM VALLEY ELEC)		-		
2390 FRANKLIN SUBSTATION		3,533,847		
2391 FORT ROCK SUBSTATION (MIDSTATE ELECTRIC COOP)		182,101		
2392 GARRISON SUBSTATION		6,112,512		
2393 GREENBERRY SUBSTATION		-		
2394 GRAND COULEE 500 KV SWITCHYARD		980,142		
2395 GRAND COULEE LEFT POWERHOUSE		-		
2396 GRAND COULEE 115 KV SWITCHYARD		202,669		
2397 GRAND COULEE SWITCHYARDS		-		
2398 GRAND COULEE THIRD POWERHOUSE		150,705		
2399 GRAND COULEE 230 KV SWITCHYARD		2,895,703		
2400 GOSHEN SUBSTATION(PACIFICORP)		-		
2401 GOLDENDALE SUBSTATION(BPA)		11,710		
2402 GOSHEN SUBSTATION(UTAH POWER & LIGHT)		268,727		
2403 GRANDVIEW SUBSTATION		82,231		
2404 GRAND COULEE SUBSTATION		242,598		
2405 GRIZZLY SUBSTATION		2,730,415		
2406 HALF MOON SUBSTATION(INLAND POWER & LIGHT)		-		
2407 HANNA SUBSTATION (GLENBROOK NICKEL)		-		
2408 HANFORD SUBSTATION		2,058,084		
2409 HAPPY CAMP SUBSTATION		-		
2410 HAPPY VALLEY SUBSTATION		92,463		
2411 HARRISBURG SUBSTATION		383,612		
2412 PAUL D. JOHNSON SUBSTATION		38,989		
2413 HARNEY SUBSTATION(BPA)		143,272		
2414 HARVEY SUBSTATION		-		
2415 HAUSER SUBSTATION(BPA)		-		
2416 HAY MILL SUBSTATION (UNITED ELEC & CITY OF RUPERT)		-		
2417 HEYBURN SUBSTATION		28,108		
2418 HUNGRY HORSE POWERHOUSE		554,568		
2419 HUNGRY HORSE SWITCHYARD		-		
2420 HILLTOP SUBSTATION		27,330		
2421 HOLCOMB SUBSTATION		16,087		
2422 HORSE HEAVEN SUBSTATION		388,526		
2423 HOOD RIVER SUBSTATION		143,515		
2424 HOT SPRINGS SUBSTATION		2,273,407		
2425 HARVALUM SUBSTATION		334,483		
2426 HAT ROCK SUBSTATION		322,079		
2427 HATWAI SUBSTATION		2,564,732		
2428 ICE HARBOR POWERHOUSE		388,526		
2429 IDAHOME SUBSTATION		94,843		
2430 INTALCO SUBSTATION		990,281		
2431 JOHN DAY SUBSTATION		7,373,703		
2432 JOHN DAY POWERHOUSE		232,475		
2433 KALISPELL SUBSTATION(BPA)		1,946,062		
2434 KAMILCHE SUBSTATION (RETIRED)		-		
2435 KEELER SUBSTATION		2,602,600		
2436 KELLER SUBSTATION		407,064		
2437 KENNEWICK SUBSTATION(BENTON CO PUD)		-		

**Appendix A**  
**BP-22 Rate Case Final Proposal Segmentation Details**

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
2438 KERR SUBSTATION(BPA)		-		
2439 KAHLLOTUS SUBSTATION		-		
2440 KITSAP SUBSTATION		1,414,030		
2441 LA GRANDE SUBSTATION		200,159		
2442 LANCASTER SUBSTATION(BPA)		488,590		
2443 LANE SUBSTATION		1,329,119		
2444 LANGLOIS SUBSTATION		-		
2445 LA PINE SUBSTATION		1,303,333		
2446 LIBBY POWERHOUSE		199,208		
2447 LEBANON SUBSTATION		164		
2448 LEXINGTON SUBSTATION		748,781		
2449 LOWER GRANITE POWERHOUSE		315,170		
2450 LIBBY SUBSTATION(BPA/FLATHEADELEC)		842,257		
2451 LIBBY SUBSTATION(BPA)		1,703,226		
2452 LITTLE GOOSE SUBSTATION		3,394,037		
2453 LITTLE GOOSE POWERHOUSE		700,638		
2454 LOOKOUT POINT SUBSTATION		17,902		
2455 LOWER MONUMENTAL POWERHOUSE		410,686		
2456 LOWER GRANITE SUBSTATION		1,193,926		
2457 LOWER MONUMENTAL SUBSTATION		2,699,591		
2458 LONGVIEW SUBSTATION		2,738,359		
2459 LOPEZ SUBSTATION(OPALCO)		18,020		
2460 LOPEZ ISLAND SUBSTATION(BPA)		580,937		
2461 LOST RIVER SUBSTATION		162,787		
2462 LYNCH CREEK SUBSTATION		121,887		
2463 MALIN SUBSTATION		6,344,778		
2464 MAYFIELD POWERHOUSE		12,509		
2465 MAPLETON SUBSTATION		60,489		
2466 MARION SUBSTATION		3,298,411		
2467 MCLOUGHLIN SUBSTATION		1,454,927		
2468 MCMINNVILLE SUBSTATION		236,654		
2469 MCNARY SUBSTATION		10,674,374		
2470 MCNARY POWERHOUSE		670,983		
2471 MERIDIAN SUBSTATION(PACIFICORP)		191,255		
2472 MIDWAY SUBSTATION(BPA)		3,396,782		
2473 MINIDOKA SUBSTATION		-		
2474 MARTIN CREEK SUBSTATION		354,159		
2475 MONROE SUBSTATION		2,082,882		
2476 MAUPIN SUBSTATION		2,709,439		
2477 MOSSYROCK SWITCHYARD		-		
2478 MOXEE SUBSTATION		325,252		
2479 MAPLE VALLEY SUBSTATION		4,965,755		
2480 MURRAY SUBSTATION		205,852		
2481 NASELLE SUBSTATION		414,464		
2482 NORTH BONNEVILLE SUBSTATION		1,600,907		
2483 NORTH BROOKINGS SUBSTATION		-		
2484 NELWAY SUBSTATION		14,885		
2485 NEWPORT SUBSTATION(INLAND POWER)		431		
2486 NORWAY SUBSTATION		-		
2487 NOXON CONSTRUCTION SUBSTATION		-		
2488 NARROWS SUBSTATION		75,170		
2489 OLYMPIA SUBSTATION		2,605,940		
2490 OREGON CITY SUBSTATION		157,851		
2491 OSTRANDER SUBSTATION		11,525,066		
2492 PASCO SUBSTATION		15,282		
2493 PAUL SUBSTATION		2,598,899		
2494 PENDLETON SUBSTATION		24,033		
2495 PEARL SUBSTATION		2,352,600		
2496 PILOT BUTTE SUBSTATION		-		
2497 PORT ANGELES SUBSTATION(BPA)		983,832		
2498 POMEROY SUBSTATION(BPA)		38,461		
2499 PONDEROSA SUBSTATION(BPA)		1,419,468		
2500 PORT ORFORD SUBSTATION		-		
2501 POTHoles SUBSTATION		1,048,448		
2502 PRAIRIE SUBSTATION(WWP & KOOTENAI ELEC COOP)		-		
2503 PRIEST RIVER SUBSTATION(BPA)		-		

**Appendix A**  
**BP-22 Rate Case Final Proposal Segmentation Details**

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
2504	RAVER SUBSTATION	4,805,240		
2505	RAYMOND SUBSTATION	17,001		
2506	REDMOND SUBSTATION(BPA)	1,640,515		
2507	REEDSPORT SUBSTATION (BPA)	383,203		
2508	RESTON SUBSTATION	199,819		
2509	ROSS HARMONY TRAINING SUBSTATION	165,651		
2510	RICHLAND SUBSTATION	189,035		
2511	RINGOLD SUBSTATION	-		
2512	ROCKY REACH SUBSTATION	-		
2513	ROCKY REACH SWITCHYARD	-		
2514	ROGUE SUBSTATION	1,034,371		
2515	ROUNDUP SUBSTATION	68,828		
2516	ROSS SUBSTATION	765,585		
2517	RATTLESNAKE SUBSTATION(MPC)	134,239		
2518	ROUND VALLEY SUBSTATION	368,383		
2519	PUGET SOUND AREA OFFICE(INACTIVE)	-		
2520	PGE HEADQUARTERS(INNACTIVE)	-		
2521	PENDLETON AIRPORT(INACTIVE)	-		
2522	DOMINION PEAK BALD MOUNTAIN(INACTIVE)	-		
2523	SACAJAWEA SUBSTATION	1,070,686		
2524	SACHEEN SUBSTATION	671,348		
2525	SAND DUNES SUBSTATION	58,891		
2526	SALEM SUBSTATION (SALEM ELEC & BPA)	724,494		
2527	SANDPOINT SUBSTATION(BPA)	9,096		
2528	SANTIAM SUBSTATION	1,986,507		
2529	SAND SPRING COMPENSATION STATION	1,563,544		
2530	SATSOP SUBSTATION(BPA)	1,516,791		
2531	SICKLER SUBSTATION	2,439,682		
2532	SAND CREEK SUBSTATION	-		
2533	SHELTON SUBSTATION	2,037,500		
2534	SCHULTZ SUBSTATION	2,455,302		
2535	SILVER BOW SUBSTATION	-		
2536	SILVER CREEK SUBSTATION	786,672		
2537	SIFTON SUBSTATION	1,273,318		
2538	SLATT SUBSTATION	5,177,715		
2539	SNOHOMISH SUBSTATION	3,795,595		
2540	SNO-KING SUBSTATION	2,327,048		
2541	SPAR CANYON SUBSTATION	136,951		
2542	SOUTH TACOMA SUBSTATION	695,849		
2543	STEILACOOM SUBSTATION	97,941		
2544	ST. JOHNS SUBSTATION	396,944		
2545	SURPRISE LAKE SUBSTATION	80,458		
2546	SUMMER LAKE SUBSTATION	1,099,706		
2547	SUN HARBOR SUBSTATION	-		
2548	SWAN VALLEY SUBSTATION	664,906		
2549	SYCAN COMPENSATION STATION	1,378,038		
2550	TACOMA SUBSTATION	1,518,959		
2551	TAFT SUBSTATION	3,253,554		
2552	TAHKENITCH SUBSTATION	447,161		
2553	TARGHEE SUBSTATION	393,087		
2554	TARKIO SUBSTATION (SOLD)	-		
2555	THE DALLES SUBSTATION	197,038		
2556	THE DALLES FISHWAY HYDRO PLANT	-		
2557	THE DALLES POWERHOUSE	280,917		
2558	TETON SUBSTATION	371,374		
2559	TILLAMOOK SUBSTATION	585,896		
2560	TOLEDO SUBSTATION	74,274		
2561	TRENTWOOD SUBSTATION	403,852		
2562	TROUTDALE SUBSTATION(BPA)	3,973,246		
2563	TROY SUBSTATION	-		
2564	TROUTDALE SUBSTATION(PACIFICORP)	151,373		
2565	UNITY SUBSTATION(BPA)	266,885		
2566	HERMISTON GENERATING COMPANY	233,455		
2567	USK SUBSTATION(BPA)	868,337		
2568	VALHALLA SUBSTATION	1,122,374		
2569	VANTAGE SUBSTATION	1,229,356		

**Appendix A**  
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A	B	C	D
2570 VANCOUVER SHIPYARD SUBSTATION	-		
2571 WALLA WALLA SUBSTATION(PACIFICORP)	16,384		
2572 WANAPUM SWITCHYARD	-		
2573 WAUNA SUBSTATION(CLATSKANIE CO PUD)	-		
2574 WALLA WALLA SUBSTATION(BPA)	756,487		
2575 WELLS SUBSTATION(DOUGLAS CO PUD)	-		
2576 WENDSON SUBSTATION	379,626		
2577 WESTSIDE SUBSTATION(BPA)	21,113		
2578 WHITE BLUFFS SUBSTATION	2,042,445		
2579 WINCHESTER SUBSTATION	-		
2580 WPPSS NO. 2 POWERHOUSE	-		
2581 WAUNA PAPER MILL	9,063		
2582 WARNER SUBSTATION	295,813		
2583 YAAK SUBSTATION	781,531		
2584 CALPINE SUBSTATION	438,289		
2585 COLUMBIA FALLS SUBSTATION - 230 KV YARD	207,916		
2586 BEAVER SUBSTATION (PGE)	85,273		
2587 SUBSTATION X	26,723		
2588 RED MOUNTAIN SUBSTATION	1,071,178		
2589 NAPAVINE SUBSTATION	978,522		
2590 NINE MILE SUBSTATION (FPLE)	435,069		
2591 EE CLOUSE SUBSTATION (KLUCKITAT PUD)	46,921		
2592 COLUMBIA GENERATING STATION GENERATING PLANT (ENERGY NORTHW)	3,701,030		
2593 WAUTOMA SUBSTATION	3,806,507		
2594 GRAYS HARBOR FACILITY NO 1 (GRAYS HARBOR ENE)	143,693		
2595 NINE CANYON SUBSTATION (BENTON PUD)	781,138		
2596 MINT FARM SWITCHING STATION	191,295		
2597 MEAD SUBSTATION	-		
2598 FREDERICKSON GENERATING PLANT(FREDERICKSON POWER LP)	119,537		
2599 KENNEDY SUBSTATION	-		
2600 MILES CITY SUBSTATION	31,742		
2601 TUCANNON RIVER SUBSTATION	1,133,214		
2602 COLSTRIP SES	41,676		
2603 JONES CANYON SUBSTATION	2,480,996		
2604 SPRING CREEK SUBSTATION	713,253		
2605 DISCOVERY SUBSTATION (N. WASCO PUD)	111,507		
2606 WILSON RIVER SUBSTATION	5,855		
2607 ROCK CREEK SUBSTATION	962,960		
2608 KLONDIKE SCHOOLHOUSE SUBSTATION (IBERDOLA)	130,842		
2609 RIVER ROAD GENERATION PLANT SUBSTATION	66,035		
2610 BRASADA SUBSTATION (CENTRAL ELECTRIC COOPERATIVE)	606,534		
2611 WILLIS SUBSTATION (KPUD)	85,119		
2612 ENERGIZER SUBSTATION (KPUD)	109,893		
2613 WHITE CREEK SUBSTATION (KPUD)	29,645		
2614 WEISER SUBSTATION	7,809		
2615 WINE COUNTRY SUBSTATION	1,081,885		
2616 JOHN DAY SUBSTATION - 230 YARD	971,128		
2617 MT EMILY SUBSTATION	391,185		
2618 CENTRAL FERRY SUBSTATION	334,651		
2619 BETTAS ROAD SUBSTATION	701,214		
2620 CATTLE CREEK SWITCHING STATION	1,282,675		
2621 DOOLEY SUBSTATION (WINDY POINT)	106,482		
2622 KNIGHT SUBSTATION	1,631,784		
2623 LINDEN COLLECTOR SUBSTATION	110,426		
2624 SHEPERDS SOUTH SUBSTATION	50,029		
2625 PHALEN GULCH SUBSTATION (PSE)	101,881		
2626 SILVERADO SUBSTATION (CLALLAM CO. PUD)	875		
2627 DAY MT. SPOKANE	124,716		
2628 MORROW FLAT	1,159,618		
2629 MULLAN SUBSTATION (PGE)	118,878		
2630 QUENETT CREEK SUBSTATION	944,747		
2631 ALBANY-EUGENE NO 1	417,035		
2632 EUGENE-ALDERWOOD NO 1	417,035		
2633 BELL-NOXON FIBER SYSTEM	10,839		
2634 BENTON-FRANKLIN NO 1	15,180		
2635 BIG EDDY-DE MOSS NO 1	-		



**Appendix A**  
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	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
2636	BIG EDDY-TROUTDALE NO 1	63,155		
2637	BOARDMAN-ALKALI NO 1	-		
2638	CARLTON-SHERWOOD NO 1	-		
2639	CELILO-SYLMAR NO 1	-		
2640	CHEHALIS-RAYMOND NO 1	-		
2641	CHIEF JOSEPH-SNOHOMISH NO 3	-		
2642	COLUMBIA FALLS-KALISPELL NO 1	31,810		
2643	COVINGTON-BETTAS ROAD NO 1	402,607		
2644	COVINGTON-MUNRO FIBER SYSTEM(INACTIVE)	1,383,291		
2645	CUSTER-INGLEDOW NO 1	190,843		
2646	ELLENSBURG-MOXEE NO 1	254,038		
2647	FOREST GROVE-MCMINNVILLE NO 1	178,098		
2648	FRANKLIN-MUNRO FIBER SYSTEM	18,991,075		
2649	GRAND COULEE-BELL NO 5	22,276		
2650	GRIZZLY-CAPTAIN JACK NO 1	-		
2651	GRIZZLY-SUMMER LAKE NO 1	-		
2652	WAUTOMA-KNIGHT NO 1	19,979		
2653	HOOD RIVER-THE DALLES NO 1	95,770		
2654	JOHN DAY-GRIZZLY NO 1	-		
2655	KEELER-OREGON CITY NO 2	134,199		
2656	KEELER-FOREST GROVE NO 1	3,269		
2657	LAPINE-FORT ROCK NO 1	-		
2658	LEXINGTON-LONGVIEW NO 1	316,226		
2659	LIBBY-CONKELLEY NO 1	-		
2660	LOWER MONUMENTAL-HANFORD NO 1	53,475		
2661	LOWER MONUMENTAL-MCNARY NO 1	7,729		
2662	MCNARY-HORSE HEAVEN NO 1	70,204		
2663	MIDWAY-MOXEE NO 1	33,830		
2664	MIDWAY-POTHOLES NO 1	-		
2665	MONROE-CUSTER NO 1	122,940		
2666	DRISCOLL-NASELLE NO 1	274,886		
2667	NASELLE-TARLETT NO 1	37,122		
2668	NORTH BONNEVILLE-MIDWAY NO 1	3,745		
2669	NORTH BONNEVILLE-TROUTDALE NO 1	-		
2670	NORTH BONNEVILLE-TROUTDALE NO 2	281,830		
2671	NOXON-LIBBY NO 1	354,839		
2672	OLYMPIA-ABERDEEN FIBER SYSTEM	989,884		
2673	OLYMPIA-GRAND COULEE NO 1	898,339		
2674	OLYMPIA-KITSAP NO 3	66,850		
2675	OLYMPIA-ST CLAIR NO 1	1,318,835		
2676	PILOT BUTTE-LA PINE NO 1	124,765		
2677	BRASADA-HARNEY NO 1	407,172		
2678	REEDSPORT-TAHKENITCH FIBER SYSTEM	193,800		
2679	REEDSPORT-FAIRVIEW NO 1	314,896		
2680	ROSS-MALIN FIBER SYSTEM	21,281,283		
2681	ROSS-RIVERGATE NO 1	98,087		
2682	SACAJAWEA TAP TO LOWER MONUMENTAL-MCNARY NO 1	8,312,639		
2683	SANTIAM-TOLEDO NO 1	-		
2684	SCHULTZ-ECHO LAKE NO 1	1,237,435		
2685	COVINGTON-BELL FIBER SYSTEM	18,377,621		
2686	SHELTON-FAIRMOUNT NO 1	49,104		
2687	SHELTON-KITSAP NO 2	399,843		
2688	SICKLER-SCHULTZ NO 1	311,816		
2689	SNO-KING-MAPLE VALLEY NO. 2	9,690		
2690	ST JOHNS-KEELER NO 2	121,700		
2691	SWAN VALLEY-TETON NO 1	94,591		
2692	TAFT-HOT SPRINGS NO 1	-		
2693	WENDSON-TAHKENITCH NO 2	514,470		
2694	SWAN VALLEY-TETON NO 2	94,531		
2695	KEELER-ALVEY FIBER SYSTEM	8,601,493		
2696	MT SI-TANNER NO 1	2,223,299		
2697	BPA SYSTEM-LINES	144,773		
2698	KEELER-COVINGTON FIBER SYSTEM	15,273,998		
2699	NOXON-KALISPELL FIBER SYSTEM	11,538,640		
2700	ROSS-FRANKLIN FIBER SYSTEM	36,754,032		
2701	SANTIAM-BETHEL NO 1	206,955		

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A	B	C	D
2702	OLYMPIA-PORT ANGELES FIBER SYSTEM	6,850,457	
2703	MARION-SANTIAM FIBER SYSTEM	1,039,832	
2704	LANCASTER-NOXON NO 1	42,239	
2705	MCNARY-JOHN DAY NO 2	5,493,099	
2706	HAUSER-NORTH BEND MAINTENANCE HQ FIBER SYSTEM	52,648	
2707	BELLINGHAM-CUSTER FIBER SYSTEM	1,445,912	
2708	NOXON-TAFT FIBER SYSTEM	5,718,682	
2709	SCHULTZ-WAUTOMA NO 1	18,029,963	
2710	WAUTOMA-COLUMBIA FIBER SYSTEM	5,084,288	
2711	SHELTON-SOUTH BREMERTON NO 1	399,843	
2712	ECHO LAKE-MONROE-SNOHOMISH FIBER SYSTEM	4,908,397	
2713	FIDALGO-LOPEZ ISLAND NO 5	95,100	
2714	MCNARY-COYOTE SPRINGS NO 1	1,519,037	
2715	LOPEZ ISLAND-DECATUR NO 1	262,113	
2716	RAVER-ECHO LAKE FIBER SYSTEM	7,294,724	
2717	HANFORD-WAUTOMA NO 1	1,770	
2718	HOT SPRINGS-GARRISON FIBER SYSTEM	9,027,301	
2719	COVINGTON-MAPLE VALLEY FIBER SYSTEM	2,941,491	
2720	PEARL-TROUTDALE FIBER SYSTEM	4,093,153	
2721	SPRING CREEK-WINE COUNTRY NO 1	50,782	
2722	ROCK CREEK-JOHN DAY NO 1	1,994	
2723	COLUMBIA GENERATING STATION-ASHE FIBER SYSTEM	126,744	
2724	MAPLE VALLEY-SNOHOMISH FIBER SYSTEM	732,999	
2725	SNO-KING-SNOHOMISH FIBER SYSTEM	2,949,281	
2726	HORN BUTTE TAP TO BOARDMAN-ALKALI NO 1	7,512	
2727	WALLA WALLA-WALLA WALLA (PACW) NO 1	163,462	
2728	GRAND COULEE 115KV-GRAND COULEE RS FIBER SEG	249,005	
2729	FRANKLIN-HATWAI FIBER SYSTEM	7,344,749	
2730	BELL-BOUNDARY FIBER SYSTEM	6,260,543	
2731	FOREST GROVE-TILLAMOOK NO 1	14,894	
2732	BIG EDDY-KNIGHT NO 1	617,427	
2733	BIG EDDY-WAUTOMA FIBER SYSTEM	9,286,204	
2734	SWAN VALLEY-SWAN VALLEY RS FIBER SYSTEM	192,592	
2735	MINIDOKA POWERHOUSE-MINIDOKA RADIO STATION FIBER SYSTEM	171,931	
2736	BELL-BOUNDARY NO 1 (ML SPOKANE CO)	3,135,434	
2737	BELL-BOUNDARY NO 1 (ML PEND OREILLE CO)	3,183,631	
2738	FREDERICKSON GENERATION-SOUTH TACOMA FIBER SYSTEM	619,854	
2739	KALISPELL-HOT SPRINGS FIBER OPTIC SYSTEM	7,270,066	
2740	TAFT-BALD MOUNTAIN FIBER OPTIC SYSTEM	6,125,483	
2741	GRAND COULEE-CRESTON NO 1 (GRANT CO)	24,085	
2742	LOWER GRANITE-HATWAI NO 1 (WHITMAN CO)	4,970,991	
2743	LOWER GRANITE-HATWAI NO 1 (NEZ PERCE CO)	944,336	
2744	BIG EDDY-KNIGHT NO 1 (ML WASON CO)	1,683,459	
2745	BIG EDDY-KNIGHT NO 1 (ML KLICKTAT CO)	2,640,705	
2746	FRANKLIN-HATWAI FIBER SYSTEM (ML GARFILED CO)	583,943	
2747	ALDER METERING POINT	-	
2748	ANTELOPE SUBSTATION(WASCO ELECTRIC)	22,809	
2749	ARTONDALE SUBSTATION	38,647	
2750	BANNACK SUBSTATION	14,276	
2751	BROOKDALE SUBSTATION(ELMHURSTMUTUAL PWR & LIGHT)	44,058	
2752	BPA SYSTEM-METERS	-	
2753	BROADVIEW SUBSTATION	-	
2754	CASCADE STEEL SUBSTATION	28,301	
2755	CHILOQUIN SUBSTATION	-	
2756	CLINTON SUBSTATION (SOLD)	-	
2757	FRENCHMAN SPRINGS SUBSTATION	-	
2758	FRANZ HOLMES SUBSTATION	2,341	
2759	GIG HARBOR SUBSTATION	46,027	
2760	HAAKENSON SUBSTATION	24,891	
2761	IDAHO FALLS SUBSTATION	1,139,015	
2762	JOHN CURTIS SUBSTATION	68,395	
2763	MILLER SUBSTATION(LAKEVIEW LIGHT & PWR)	65,777	
2764	LAKE BAY SUBSTATION	119,816	
2765	LAKE GROVE SUBSTATION	61,228	
2766	LODHOLM SUBSTATION	132,402	
2767	RYANS RIDGE RADIO(INACTIVE)	-	

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A	B	C	D
2768 RAFT RIVER ELECTRIC CO-OP, INC., HEADQUARTERS	-		
2769 MAYFIELD SWITCHYARD	92,804		
2770 MCCULLOUGH SUBSTATION	59,703		
2771 MINIDOKA POWERHOUSE	353,775		
2772 MACKS INN SUBSTATION	27,004		
2773 OHOP SUBSTATION	170,160		
2774 OLNEY METERING POINT	-		
2775 PALISADES POWERHOUSE	457,032		
2776 PORT TOWNSEND SUBSTATION	40,728		
2777 PURDY SUBSTATION	46,473		
2778 RAINIER SUBSTATION	3,384		
2779 RED MOUNTAIN SUB (BENTON REA)	391,394		
2780 STATELINE SUBSTATION	-		
2781 TYEE SUBSTATION	88,101		
2782 VAUGHN SUBSTATION	113,732		
2783 WARDEN POLE METERING POINT	-		
2784 LYN PUMPS PUMPING PLANT	-		
2785 CONDON WIND SUBSTATION(SEAWEST)	17,366		
2786 HERMISTON BUTTE (UEC)	2,915		
2787 MINTER SUBSTATION (PENINSULA)	100,179		
2788 SHANO SUBSTATION	-		
2789 GRAZZINI SUBSTATION	69,978		
2790 HAYDEN SUBSTATION	4,128		
2791 ADEL RADIO STATION	1,153,729		
2792 ALBION BUTTE RADIO STATION	2,784,781		
2793 ALVEY HILL RADIO STATION(INACTIVE)	-		
2794 APPLGATE BUTTE RADIO STATION	1,813,502		
2795 ASHTON HILL RADIO STATION	485,345		
2796 AUGSPURGER MOUNTAIN RADIO STATION	644,549		
2797 BALD MOUNTAIN RADIO STATION	3,808,222		
2798 BALD PEAK RADIO STATION	41,219		
2799 BIDDLE BUTTE RADIO STATION	67,771		
2800 BELL PASSIVE REPEATER SITE	-		
2801 BEVERLY RADIO STATION	558,184		
2802 BLACKTAIL PEAK RADIO STATION	1,018,291		
2803 BLACK MOUNTAIN RADIO STATION	140,878		
2804 BLUE RIDGE RADIO STATION	325,762		
2805 BLYN RADIO STATION	295,810		
2806 BOISE TOWER RADIO STATION	-		
2807 BOISTFORT PEAK RADIO STATION(WEYERHOUSER)	55,063		
2808 BPA SYSTEM-MICROWAVE &RADIO STATIONS	117,089		
2809 BRADFORD ISLAND RADIO STATION	39,174		
2810 BIRCH CREEK RADIO STATION	16,825		
2811 BUCK BUTTE RADIO STATION	1,627,244		
2812 BURNS RADIO STATION	181,841		
2813 CAPE BLANCO RADIO STATION(INACTIVE)	-		
2814 CAPITOL PEAK RADIO STATION(BPA)	748,652		
2815 CAPE BLANCO RADIO STATION(US COAST GUARD)	-		
2816 CABBAGE HILL RADIO STATION	84,401		
2817 COBURG RADIO STATION	283,213		
2818 CHEHALIS RADIO STATION	119,932		
2819 COYOTE HILLS RADIO STATION	1,323,870		
2820 CULDESAC RADIO STATION	12,970		
2821 DAVENPORT RADIO STATION	26,473		
2822 DECATUR WEST RADIO STATION	-		
2823 INDIAN MOUNTAIN RADIO STATION	1,781,993		
2824 DITTMER BPA SYSTEM CONTROL CENTER	49,398,250		
2825 DEVILS MOUNTAIN RADIO STATION	316,863		
2826 DEL RIO RADIO STATION	863,202		
2827 DRISCOLL PASSIVE REPEATER SITE	-		
2828 DWORSHAK DAM PASSIVE REPEATERSITE	332,320		
2829 EASTON RADIO STATION	374,749		
2830 EAST BUTTE RADIO STATION	-		
2831 ELLIS RADIO STATION	-		
2832 FLATIRON PASSIVE REPEATER SITE	-		
2833 FOSTER CREEK RADIO STATION	647,575		

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A	B	C	D
2834	FOX MOUNTAIN RADIO STATION	-	
2835	GARDINER RIDGE RADIO STATION(BPA)	-	
2836	GRAND COULEE RADIO STATION	1,047,218	
2837	GRAND COULEE PASSIVE REPEATERSITE	14,885	
2838	GOODNOE HILLS RADIO STATION(RETIRED)	-	
2839	GOLD CREEK PASSIVE REPEATER SITE	-	
2840	GRASSY MOUNTAIN RADIO STATION	-	
2841	GREEN MOUNTAIN PASSIVE REPEATER SITE	13,469	
2842	GRANITE MOUNTAIN RADIO STATION	887,416	
2843	GROUSE PEAK RADIO STATION	356,044	
2844	GARDINER RIDGE RADIO STATION(CENTRAL LINCOLN PUD)	-	
2845	GRIZZLY MOUNTAIN RADIO STATION	1,628,175	
2846	GOODWIN PEAK RADIO STATION	390,889	
2847	HALL RIDGE RADIO STATION	357,692	
2848	HAMPTON BUTTE RADIO STATION	275,880	
2849	HAPPY CAMP RADIO STATION(PG&E)	152,425	
2850	HAYSTACK BUTTE RADIO STATION	2,352,411	
2851	HEYBROOK RADIO STATION(RETIRED)	-	
2852	HUNGRY HORSE RADIO STATION	662,373	
2853	HOLCOMB RADIO STATION	270,971	
2854	HAPPY CAMP RADIO STATION(TANC)	52,708	
2855	HORSE ROCK RADIO STATION	-	
2856	HOT SPRINGS PASSIVE REPEATER SITE	-	
2857	IONA BUTTE RADIO STATION	191	
2858	JACK MOUNTAIN RADIO STATION	-	
2859	KAHLOTUS RADIO STATION	2,032,977	
2860	KENNEWICK RADIO STATION	2,379,734	
2861	KENYON MOUNTAIN RADIO STATION	477,621	
2862	KITSAP PASSIVE REPEATER SITE	-	
2863	KITTITAS RADIO STATION	-	
2864	KING LAKE RADIO STATION	-	
2865	LINES CREEK RADIO STATION	3,564,367	
2866	LAKESIDE RADIO STATION	(0)	
2867	LENEVE RADIO STATION	-	
2868	LOWELL BUTTE RADIO STATION	1,855,300	
2869	LOCUST HILL RADIO STATION	-	
2870	LOOKOUT MOUNTAIN RADIO STATION	2,613,311	
2871	MALAGA RADIO STATION	1,029,152	
2872	MALONEY RIDGE RADIO STATION	-	
2873	MARION PASSIVE REPEATER SITE	-	
2874	MARYS PEAK RADIO STATION	387,894	
2875	MALIN PASSIVE REPEATER S SITE	13,184	
2876	MT. HEBO RADIO STATION	261,985	
2877	MT. EMILY RADIO STATION	37,219	
2878	MERRITT RADIO STATION	1,158,490	
2879	METALINE RADIO STATION	2,521,692	
2880	MEGLER RADIO STATION	280,472	
2881	MICA PEAK RADIO STATION	2,748,717	
2882	MILLER PEAK RADIO STATION	2,771,812	
2883	MINIDOKA RADIO STATION	151,910	
2884	MT. SPOKANE RADIO STATION(AVISTA)	1,153,982	
2885	NASELLE RADIO STATION	-	
2886	NASELLE RIDGE RADIO STATION	874,948	
2887	NORTH BEND RADIO STATION	842,173	
2888	NOTI RADIO STATION	495,586	
2889	NOXON PASSIVE REPEATER SITE	-	
2890	NOXON RADIO STATION	1,850,117	
2891	ODELL BUTTE RADIO STATION	970,199	
2892	OLYMPIA PASSIVE REPEATER SITE	-	
2893	OSTRANDER PASSIVE REPEATER SITE	-	
2894	PATRICKS KNOB RADIO STATION	1,737,468	
2895	PINE MOUNTAIN RADIO STATION	1,646,561	
2896	PLAINS PASSIVE REPEATER SITE	-	
2897	PLUM RADIO STATION	50,745	
2898	POMEROY RADIO STATION	2,739,163	
2899	PROSPECT HILL RADIO STATION	1,541,586	

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A	B	C	D
2900 RAINIER RADIO STATION	868,685		
2901 RAYMOND RADIO STATION	238,453		
2902 RAYMOND HILL RADIO STATION	472,835		
2903 RELAY RIDGE RADIO STATION	-		
2904 ROCKY RADIO STATION [RET]	12,681		
2905 CYRUS NOE RADIO STATION	94,484		
2906 ROCKY RIDGE RADIO STATION	3,011,014		
2907 ROCKDALE PASSIVE REPEATER N1 SITE	-		
2908 ROOSEVELT RADIO STATION	1,327,903		
2909 ROSS RADIO STATION	84,886		
2910 MALIN REFLECTOR NORTH(INACTIVE)	-		
2911 MALIN REFLECTOR SOUTH(INACTIVE)	-		
2912 SACHEEN PASSIVE REPEATER SITE	14,885		
2913 SALEM PASSIVE REPEATER SITE	10,266		
2914 SAWTELL RADIO STATION	210,327		
2915 SCOTT MOUNTAIN RADIO STATION	396,503		
2916 SEATTLE RADIO STATION	3,908		
2917 SHANIKO RADIO STATION	1,052,269		
2918 SIGNAL HILL PASSIVE REPEATER SITE	-		
2919 SICKLER PASSIVE REPEATER SITE	14,885		
2920 SKYROCKET RADIO STATION	912,632		
2921 SOUTH MOUNTAIN RADIO STATION	409,098		
2922 SANDPOINT-BALDY RADIO STATION(BPA)	-		
2923 MT. SPOKANE RADIO STATION(BPA)	322,443		
2924 SQUAK MOUNTAIN RADIO STATION	102,244		
2925 STAMPEDE PASS RADIO STATION	64,283		
2926 SUNNYSIDE RADIO STATION	755,042		
2927 SWAN LAKE POINT RADIO STATION	1,970,587		
2928 SWAN VALLEY RADIO STATION	426,706		
2929 SCHMITZ MOUNTAIN PASSIVE REPEATER SITE	-		
2930 TACOMA RADIO STATION	2,242,289		
2931 TACOMA PASSIVE REPEATER SITE	-		
2932 TAFT PASSIVE REPEATER SITE	348,619		
2933 TEAKEAN BUTTE RADIO STATION	3,232,120		
2934 TEANAWAY RADIO STATION	294,566		
2935 THOMPSON FALLS RADIO STATION	624,120		
2936 TEAKETTLE PASSIVE REPEATER SITE	-		
2937 TUNK MOUNTAIN RADIO STATION	1,377,721		
2938 USK PASSIVE REPEATER SITE	14,885		
2939 VALHALLA PASSIVE REPEATER SITE	14,885		
2940 WASCO RADIO STATION	855,091		
2941 WATERVILLE RADIO STATION	822,730		
2942 WEST PORTLAND RADIO STATION	845,399		
2943 WINDY DEVIL RADIO STATION	45,066		
2944 WOLF MOUNTAIN RADIO STATION	1,596,696		
2945 WHISKEY RIDGE RADIO STATION	18,065		
2946 ZONOLITE PASSIVE REPEATER SITE	-		
2947 MOBILE COMMUNICATIONS (UNKNOWN)	-		
2948 ELLIS MOUNTAIN RADIO STATION	24,271		
2949 BENNETT MOUNTAIN RADIO STATION	89,534		
2950 ALBENI FALLS RADIO STATION (USCE)	417,253		
2951 WALKER MOUNTAIN RADIO STATION	1,874,997		
2952 CAPE BLANCO RADIO STATION (BPA)	902,315		
2953 SWAN VALLEY PASSIVE REPEATER SITE	152,951		
2954 RUBY MOUNTAIN	2,524,596		
2955 BEARMOUTH RADIO STATION	2,299,580		
2956 ALBERTON RADIO STATION	3,475,916		
2957 THUNDER RIDGE RADIO STATION	322,868		
2958 ALVEY MAINTENANCE HEADQUARTERS	844,250		
2959 ASHE MAINTENANCE HEADQUARTERS	2,467,356		
2960 THE DALLES MAINTENANCE HEADQUARTERS	4,822,997		
2961 BELL MAINTENANCE HEADQUARTERS	7,028,464		
2962 BPA SYSTEM-NON ELECTRIC PLANT& MISC	88,697,919		
2963 BPA SYSTEM	16,604,541		
2964 BURLEY MAINTENANCE HEADQUARTERS	57,779		
2965 CELILO MAINTENANCE HEADQUARTERS	21,287		

**Appendix A**  
**BP-22 Rate Case Final Proposal Segmentation Details**

A	B	C	D
2966	CHEMAWA MAINTENANCE HEADQUARTERS	412,367	
2967	CHEHALIS MAINTENANCE HEADQUARTERS	79,987	
2968	FOLSOM CONTROL CENTER (CAL ISO) (UNKNOWN)	-	
2969	COVINGTON MAINTENANCE HEADQUARTERS	769,287	
2970	CUSTER MAINTENANCE HEADQUARTERS	724,085	
2971	EASTERN CONTROL CENTER	1,063,764	
2972	EAST BURLEY STORAGE YARD	-	
2973	EUGENE C. STARR COMPLEX	2,799,241	
2974	FRANKLIN MAINTENANCE HEADQUARTERS	77,489	
2975	GRAND COULEE MAINTENANCE BUILDING	629,567	
2976	GARRISON MAINTENANCE HEADQUARTERS	158,654	
2977	IDAHO FALLS DISTRICT OFFICE AND MAINTENANCE HEADQUARTERS	4,447,679	
2978	KALISPELL MAINTENANCE HEADQUARTERS	10,069,292	
2979	LEWISTON MAINTENANCE HEADQUARTERS	280,853	
2980	LONGVIEW MAINTENANCE HEADQUARTERS	356,364	
2981	LONGVIEW ANNEX I	2,885	
2982	LONGVIEW ANNEX II	-	
2983	MCNARY MAINTENANCE HEADQUARTERS	9,500,925	
2984	MALIN MAINTENANCE HEADQUARTERS	6,700,220	
2985	MORO UHV MECHANICAL TEST SITE	-	
2986	MUNRO BPA SYSTEM CONTROL CENTER	52,248,977	
2987	NORTH BEND MAINTENANCE HEADQUARTERS	2,210,885	
2988	OLYMPIA MAINTENANCE HEADQUARTERS	6,562,206	
2989	PASCO MAINTENANCE HEADQUARTERS	196,041	
2990	BONNEVILLE BUILDING PORTLAND	-	
2991	PORTLAND INTERNATIONAL AIRPORT HANGAR	1,145,576	
2992	BPA HEADQUARTERS BUILDING	94,536	
2993	PACIFIC GAS AND ELECTRIC OPERATIONS CENTER	4,109	
2994	ROSS AMPERE BUILDING	15,079,090	
2995	ROSS CONSTRUCTION AND SERVICES BUILDING	9,832,115	
2996	EASTSIDE SYSTEM CONTROL CENTER(PSE)	-	
2997	REDMOND MAINTENANCE HEADQUARTERS	3,015,584	
2998	REDMOND BPA HANGAR SITE	1,348,223	
2999	ROSS EHV LABORATORY	603,409	
3000	PBL ROSS EMERGENCY SCHEDULINGCENTER (ESC)	57,571	
3001	ROSS MAINTENANCE HEADQUARTERS	23,367,783	
3002	ROSS COMPLEX	94,163,126	
3003	ROSS WAREHOUSE	5,705,025	
3004	SNAKE RIVER AREA OFFICE(INACTIVE)	-	
3005	SICKLER MAINTENANCE HEADQUARTERS	1,063,379	
3006	SCHULTZ MAINTENANCE HEADQUARTERS	2,453,365	
3007	SEVEN MILE HILL METEOROLOGICAL TOWER	-	
3008	SNOHOMISH MAINTENANCE HEADQUARTERS	1,647,432	
3009	SNOHOMISH CO. PUD DISPATCH CENTER	-	
3010	SUMMER LAKE HOUSING	143,243	
3011	THE DALLES OPERATING DISTRICTHEADQUARTERS	26,595	
3012	WALLA WALLA U.S. CORPS OF ENGINEERS HEADQUARTERS	-	
3013	TWO PARK PLACE	-	
3014	IDAHO FALLS STORAGE YARD	380,162	
3015	SPOKANE HANGAR	1,705,354	
3016	NEKITPE MAINTENANCE HEADQUARTERS	17,273,443	
3017	KEELER MAINTENANCE HEADQUARTERS	846,845	
3018	MUNRO SCHEDULING CENTER	1,262,631	
3019	Total General Plant	1,230,468,855	

**Appendix B**  
**BP-22 Rate Case Final Proposal Multi-Segmented  
Facilities Summary**

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**Appendix B**  
**BP-22 Final Proposal Multi-Segmented Facilities Summary**

A	B	C	D	E
Transmission Lines	Investment (\$)	O&M (\$)	Multi %	Segment
1 BIG EDDY SUBSTATION 230/115KV TIE NO 1	11,281		4%	Generation Integration
2 BIG EDDY SUBSTATION 230/115KV TIE NO 1	46,374		19%	Network
3 BIG EDDY SUBSTATION 230/115KV TIE NO 1	193,018		77%	Southern Intertie
4 BIG EDDY SUBSTATION 230/115KV TIE NO 1	250,673		100%	
5 BUCKLEY-GRIZZLY NO 1	7,514,539	10,186	43%	Network
6 BUCKLEY-GRIZZLY NO 1	9,961,133	13,503	57%	Southern Intertie
7 BUCKLEY-GRIZZLY NO 1	17,475,672	23,689	100%	Total
8 BUCKLEY-MARION NO 1	20,351,214	10,830	50%	Network
9 BUCKLEY-MARION NO 1	20,351,214	10,830	50%	Southern Intertie
10 BUCKLEY-MARION NO 1	40,702,428	21,659	100%	Total
11 BUCKLEY-MARION NO 1 (ML CLACKAMAS CO)	752,032	0	50%	Network
12 BUCKLEY-MARION NO 1 (ML CLACKAMAS CO)	752,032	0	50%	Southern Intertie
13 BUCKLEY-MARION NO 1 (ML CLACKAMAS CO)	1,504,065	0	100%	Total
14 BUCKLEY-MARION NO 1 (ML MARION CO)	322,300	0	50%	Network
15 BUCKLEY-MARION NO 1 (ML MARION CO)	322,300	0	50%	Southern Intertie
16 BUCKLEY-MARION NO 1 (ML MARION CO)	644,600	0	100%	Total
17 COUGAR-HOLDEN CREEK NO 1	643,374	10,052	21%	Generation Integration
18 COUGAR-HOLDEN CREEK NO 1	2,442,582	38,163	79%	Network
19 COUGAR-HOLDEN CREEK NO 1	3,085,955	48,216	100%	Total
20 COYOTE SPRINGS-SLATT NO 1	2,352,112	19,257	88%	Network
21 COYOTE SPRINGS-SLATT NO 1	328,931	2,693	12%	Southern Intertie
22 COYOTE SPRINGS-SLATT NO 1	2,681,042	21,950	100%	Total
23 GREEN PETER-LEBANON NO 1	357,224	5,175	35%	Generation Integration
24 GREEN PETER-LEBANON NO 1	666,893	9,661	65%	Network
25 GREEN PETER-LEBANON NO 1	1,024,116	14,836	100%	Total
26 GRIZZLY-SUMMER LAKE NO 1	14,204,156	18,486	43%	Network
27 GRIZZLY-SUMMER LAKE NO 1	18,828,765	24,504	57%	Southern Intertie
28 GRIZZLY-SUMMER LAKE NO 1	33,032,920	42,990	100%	Total
29 GRIZZLY-SUMMER LAKE NO 1 (CROOK CO)	108,228	0	43%	Network
30 GRIZZLY-SUMMER LAKE NO 1 (CROOK CO)	143,465	0	57%	Southern Intertie
31 GRIZZLY-SUMMER LAKE NO 1 (CROOK CO)	251,694	0	100%	Total
32 GRIZZLY-SUMMER LAKE NO 1 (DESCHUTES CO)	127,891	0	43%	Network
33 GRIZZLY-SUMMER LAKE NO 1 (DESCHUTES CO)	169,530	0	57%	Southern Intertie
34 GRIZZLY-SUMMER LAKE NO 1 (DESCHUTES CO)	297,420	0	100%	Total
35 GRIZZLY-SUMMER LAKE NO 1 (LAKE CO)	255,806	0	43%	Network
36 GRIZZLY-SUMMER LAKE NO 1 (LAKE CO)	339,092	0	57%	Southern Intertie
37 GRIZZLY-SUMMER LAKE NO 1 (LAKE CO)	594,897	0	100%	Total
38 GROUSE CREEK-TECOMA TRANSMISSION LINES & SUBSTATION	1,852,538	0	94%	Network
39 GROUSE CREEK-TECOMA TRANSMISSION LINES & SUBSTATION	117,123	0	6%	Utility Delivery
40 GROUSE CREEK-TECOMA TRANSMISSION LINES & SUBSTATION	1,969,661	0	100%	Total
41 HILLS CREEK-LOOKOUT POINT NO 1	332,970	8,454	19%	Generation Integration
42 HILLS CREEK-LOOKOUT POINT NO 1	1,390,969	35,316	81%	Network
43 HILLS CREEK-LOOKOUT POINT NO 1	1,723,939	43,770	100%	Total
44 ICE HARBOR-FRANKLIN NO 2	15,726	23	3%	Generation Integration
45 ICE HARBOR-FRANKLIN NO 2	554,825	803	97%	Network
46 ICE HARBOR-FRANKLIN NO 2	570,551	826	100%	Total
47 ICE HARBOR-FRANKLIN NO 3	133,963	110	9%	Generation Integration
48 ICE HARBOR-FRANKLIN NO 3	1,331,565	1,093	91%	Network
49 ICE HARBOR-FRANKLIN NO 3	1,465,528	1,203	100%	Total

**Appendix B**  
**BP-22 Final Proposal Multi-Segmented Facilities Summary**

A	B	C	D	E
Transmission Lines	Investment (\$)	O&M (\$)	Multi %	Segment
50 MARION-ALVEY NO 1	6,046,722	11,868	50%	Generation Integration
51 MARION-ALVEY NO 1	6,046,722	11,868	50%	Network
52 MARION-ALVEY NO 1	12,093,444	23,735	100%	Total
53 SLATT-JOHN DAY NO 1	4,358,495	21,447	93%	Generation Integration
54 SLATT-JOHN DAY NO 1	328,108	1,615	7%	Network
55 SLATT-JOHN DAY NO 1	4,686,603	23,062	100%	Total
56 SLATT-JOHN DAY NO 1 ML GILLIAM CO	251,354	0	93%	Network
57 SLATT-JOHN DAY NO 1 ML GILLIAM CO	18,922	0	7%	Southern Intertie
58 SLATT-JOHN DAY NO 1 ML GILLIAM CO	270,276	0	100%	Total
59 SLATT-JOHN DAY NO 1 ML SHERMAN CO	187,309	0	93%	Network
60 SLATT-JOHN DAY NO 1 ML SHERMAN CO	14,101	0	7%	Southern Intertie
61 SLATT-JOHN DAY NO 1 ML SHERMAN CO	201,410	0	100%	Total
Transmission Stations	Investment (\$)	O&M (\$)	Multi %	Segment
62 ACTON SUBSTATION	197,084	17,025	82%	Network
63 ACTON SUBSTATION	43,859	3,789	18%	Utility Delivery
64 ACTON SUBSTATION	240,943	20,814	100%	Total
65 ADDY SUBSTATION	10,684,398	103,653	90%	Network
66 ADDY SUBSTATION	1,245,242	12,081	10%	Unsegmented
67 ADDY SUBSTATION	11,929,640	115,734	100%	Total
68 ALBANY SUBSTATION	14,281,668	142,161	88%	Network
69 ALBANY SUBSTATION	1,938,603	19,297	12%	Utility Delivery
70 ALBANY SUBSTATION	16,220,270	161,458	100%	Total
68 ALBENI FALLS SUBSTATION	365,644	6,381	25%	Generation Integration
69 ALBENI FALLS SUBSTATION	1,096,932	19,142	75%	Network
70 ALBENI FALLS SUBSTATION	1,462,575	25,523	100%	Total
69 ALCOA SUBSTATION	9,479,422	226,777	95%	Network
70 ALCOA SUBSTATION	485,258	11,609	5%	Unsegmented
71 ALCOA SUBSTATION	9,964,679	238,386	100%	Total
72 ALVEY SUBSTATION	61,643,090	314,144	88%	Network
73 ALVEY SUBSTATION	8,613,054	43,894	12%	Southern Intertie
74 ALVEY SUBSTATION	70,256,144	358,037	100%	Total
75 ASHE SUBSTATION	3,866,076	45,613	8%	Generation Integration
76 ASHE SUBSTATION	42,298,923	499,052	92%	Network
77 ASHE SUBSTATION	46,164,999	544,665	100%	Total
78 BANDON SUBSTATION	3,817,100	58,451	67%	Network
79 BANDON SUBSTATION	1,880,064	28,789	33%	Utility Delivery
80 BANDON SUBSTATION	5,697,165	87,240	100%	Total
81 BIG EDDY SUBSTATION	4,053,297	25,574	4%	Generation Integration
82 BIG EDDY SUBSTATION	17,088,346	107,818	19%	Network
83 BIG EDDY SUBSTATION	71,089,186	448,531	77%	Southern Intertie
84 BIG EDDY SUBSTATION	92,230,829	581,923	100%	Total
85 BONNERS FERRY SUBSTATION	2,265,147	49,691	78%	Network
86 BONNERS FERRY SUBSTATION	636,101	13,954	22%	Utility Delivery
87 BONNERS FERRY SUBSTATION	2,901,248	63,645	100%	Total
88 BUCKLEY SUBSTATION	3,984,880	73,241	36%	Network
89 BUCKLEY SUBSTATION	7,135,715	131,153	64%	Southern Intertie
90 BUCKLEY SUBSTATION	11,120,594	204,394	100%	Total

**Appendix B**  
**BP-22 Final Proposal Multi-Segmented Facilities Summary**

A	B	C	D	E
Transmission Lines	Investment (\$)	O&M (\$)	Multi %	Segment
90 BURBANK SUBSTATION	706,630	14,736	84%	Network
91 BURBANK SUBSTATION	126,063	2,629	15%	Utility Delivery
92 BURBANK SUBSTATION	11,348	237	1%	Unsegmented
93 BURBANK SUBSTATION	844,041	17,601	100%	Total
94 BURNT WOODS SUBSTATION	753,476	6,876	56%	Network
95 BURNT WOODS SUBSTATION	602,039	5,494	44%	Utility Delivery
96 BURNT WOODS SUBSTATION	1,355,515	12,369	100%	Total
97 CASCADE LOCKS SUBSTATION	397,538	18,383	61%	Network
98 CASCADE LOCKS SUBSTATION	252,354	11,669	39%	Utility Delivery
99 CASCADE LOCKS SUBSTATION	649,892	30,052	100%	Total
94 CHIEF JOSEPH SUBSTATION	12,228,885	100,005	26%	Generation Integration
100 CHIEF JOSEPH SUBSTATION	33,871,277	276,991	72%	Network
101 CHIEF JOSEPH SUBSTATION	1,207,389	9,874	3%	Southern Intertie
102 CHIEF JOSEPH SUBSTATION	47,307,550	386,869	100%	Total
95 DAVIS CREEK SUBSTATION	73,632	1,314	14%	Network
96 DAVIS CREEK SUBSTATION	471,589	8,415	86%	Utility Delivery
97 DAVIS CREEK SUBSTATION	545,221	9,728	100%	Total
103 DIXIE SUBSTATION	405,202	8,592	55%	Network
104 DIXIE SUBSTATION	337,515	7,157	45%	Utility Delivery
105 DIXIE SUBSTATION	742,717	15,748	100%	Total
106 DRAIN SUBSTATION	3,032,451	34,426	90%	Network
107 DRAIN SUBSTATION	322,557	3,662	10%	Utility Delivery
108 DRAIN SUBSTATION	3,355,008	38,087	100%	Total
103 DWORSHAK SUBSTATION	4,846,793	36,992	18%	Generation Integration
109 DWORSHAK SUBSTATION	21,847,729	166,749	82%	Network
110 DWORSHAK SUBSTATION	26,694,522	203,742	100%	Total
111 FRANKLIN SUBSTATION	1,912,047	35,656	12%	Generation Integration
112 FRANKLIN SUBSTATION	14,509,959	270,579	88%	Network
113 FRANKLIN SUBSTATION	16,422,006	306,235	100%	Total
114 GARDINER SUBSTATION	608,586	19,427	66%	Network
115 GARDINER SUBSTATION	315,372	10,067	34%	Utility Delivery
116 GARDINER SUBSTATION	923,958	29,495	100%	Total
117 GARRISON SUBSTATION	60,902,565	554,421	69%	Network
118 GARRISON SUBSTATION	27,325,017	248,751	31%	Eastern Intertie
119 GARRISON SUBSTATION	88,227,582	803,171	100%	Total
117 GLADE SUBSTATION	290,197	6,481	45%	Network
118 GLADE SUBSTATION	326,111	7,283	50%	Utility Delivery
120 GLADE SUBSTATION	35,615	795	5%	Unsegmented
121 GLADE SUBSTATION	651,924	14,559	100%	Total
120 HARRISBURG SUBSTATION	4,893,940	20,993	96%	Network
122 HARRISBURG SUBSTATION	190,947	819	4%	Utility Delivery
123 HARRISBURG SUBSTATION	5,084,887	21,812	100%	Total
122 HOOD RIVER SUBSTATION	1,577,158	50,506	74%	Network
124 HOOD RIVER SUBSTATION	564,772	18,086	26%	Utility Delivery
125 HOOD RIVER SUBSTATION	2,141,930	68,592	100%	Total
126 INTALCO SUBSTATION	16,294,395	255,842	71%	Network
127 INTALCO SUBSTATION	6,655,457	104,499	29%	DSI Delivery
128 INTALCO SUBSTATION	22,949,852	360,340	100%	Total
129 IONE SUBSTATION	819,297	16,523	86%	Network
130 IONE SUBSTATION	135,510	2,733	14%	Utility Delivery
131 IONE SUBSTATION	954,807	19,256	100%	Total

**Appendix B**  
**BP-22 Final Proposal Multi-Segmented Facilities Summary**

A	B	C	D	E
Transmission Lines	Investment (\$)	O&M (\$)	Multi %	Segment
132 JOHN DAY SUBSTATION	15,574,155	179,905	29%	Generation Integration
133 JOHN DAY SUBSTATION	23,218,370	268,208	44%	Network
134 JOHN DAY SUBSTATION	14,445,669	166,869	27%	Southern Intertie
135 JOHN DAY SUBSTATION	53,238,194	614,982	100%	Total
136 LANGLOIS SUBSTATION	423,551	14,607	68%	Network
137 LANGLOIS SUBSTATION	203,884	7,031	32%	Utility Delivery
138 LANGLOIS SUBSTATION	627,435	21,638	100%	Total
136 LIBBY SUBSTATION(BPA)	3,099,164	75,954	31%	Generation Integration
139 LIBBY SUBSTATION(BPA)	7,060,560	173,039	69%	Network
140 LIBBY SUBSTATION(BPA)	10,159,724	248,993	100%	Total
141 LITTLE GOOSE SUBSTATION	17,018,720	37,679	20%	Generation Integration
142 LITTLE GOOSE SUBSTATION	68,074,878	150,716	80%	Network
143 LITTLE GOOSE SUBSTATION	85,093,598	188,395	100%	Total
144 LOOKOUT POINT SUBSTATION	1,109,929	8,673	25%	Generation Integration
145 LOOKOUT POINT SUBSTATION	3,329,786	26,020	75%	Network
146 LOOKOUT POINT SUBSTATION	4,439,715	34,693	100%	Total
147 LOWER GRANITE SUBSTATION	4,059,685	35,289	25%	Generation Integration
148 LOWER GRANITE SUBSTATION	12,179,056	105,867	75%	Network
149 LOWER GRANITE SUBSTATION	16,238,742	141,156	100%	Total
150 LOWER MONUMENTAL SUBSTATION	5,468,856	39,142	13%	Generation Integration
151 LOWER MONUMENTAL SUBSTATION	36,383,174	260,402	87%	Network
152 LOWER MONUMENTAL SUBSTATION	41,852,030	299,543	100%	Total
150 LYNCH CREEK SUBSTATION	726,128	11,476	57%	Network
153 LYNCH CREEK SUBSTATION	545,682	8,624	43%	Utility Delivery
154 LYNCH CREEK SUBSTATION	1,271,810	20,101	100%	Total
153 MAPLETON SUBSTATION	933,517	33,601	86%	Network
155 MAPLETON SUBSTATION	155,228	5,587	14%	Utility Delivery
156 MAPLETON SUBSTATION	1,088,745	39,188	100%	Total
157 MARION SUBSTATION	39,440,179	417,311	92%	Network
158 MARION SUBSTATION	3,594,409	38,032	8%	Southern Intertie
159 MARION SUBSTATION	43,034,588	455,343	100%	Total
160 MCNARY SUBSTATION	11,424,087	49,245	8%	Generation Integration
161 MCNARY SUBSTATION	131,377,006	566,316	92%	Network
162 MCNARY SUBSTATION	142,801,093	615,561	100%	Total
157 MINIDOKA SUBSTATION	139,342	3,503	36%	Network
163 MINIDOKA SUBSTATION	246,447	6,196	64%	Utility Delivery
164 MINIDOKA SUBSTATION	385,789	9,699	100%	Total
160 MONMOUTH SUBSTATION	1,308,756	36,063	58%	Network
165 MONMOUTH SUBSTATION	946,355	26,077	42%	Utility Delivery
166 MONMOUTH SUBSTATION	2,255,111	62,141	100%	Total
163 MOUNTAIN AVENUE SUBSTATION	1,649,673	28,096	78%	Network
167 MOUNTAIN AVENUE SUBSTATION	459,383	7,824	22%	Utility Delivery
168 MOUNTAIN AVENUE SUBSTATION	2,109,055	35,920	100%	Total
167 NECANICUM SUBSTATION	155,809	5,423	46%	Network
169 NECANICUM SUBSTATION	183,289	6,380	54%	Utility Delivery
170 NECANICUM SUBSTATION	339,098	11,803	100%	Total
169 NORTH BENCH SUBSTATION	303,427	3,020	41%	Network
171 NORTH BENCH SUBSTATION	435,183	4,332	59%	Utility Delivery
172 NORTH BENCH SUBSTATION	738,610	7,352	100%	Total

**Appendix B**  
**BP-22 Final Proposal Multi-Segmented Facilities Summary**

A	B	C	D	E
Transmission Lines	Investment (\$)	O&M (\$)	Multi %	Segment
163 NORTH BONNEVILLE SUBSTATION	4,829,681	65,102	31%	Generation Integration
173 NORTH BONNEVILLE SUBSTATION	10,829,835	145,982	69%	Network
174 NORTH BONNEVILLE SUBSTATION	15,659,516	211,084	100%	Total
173 NORTH BUTTE SUBSTATION	110,484	7,261	56%	Network
175 NORTH BUTTE SUBSTATION	86,353	5,675	44%	Utility Delivery
176 NORTH BUTTE SUBSTATION	196,837	12,937	100%	Total
175 PARKDALE SUBSTATION	1,071,795	21,263	71%	Network
177 PARKDALE SUBSTATION	438,552	8,700	29%	Utility Delivery
178 PARKDALE SUBSTATION	1,510,347	29,963	100%	Total
179 PORT ORFORD SUBSTATION	296,514	16,821	63%	Network
180 PORT ORFORD SUBSTATION	174,549	9,902	37%	Utility Delivery
181 PORT ORFORD SUBSTATION	471,063	26,724	100%	Total
182 POTLATCH SUBSTATION(BPA)	1,006,926	31,379	89%	Network
183 POTLATCH SUBSTATION(BPA)	118,148	3,682	11%	Utility Delivery
184 POTLATCH SUBSTATION(BPA)	1,125,074	35,060	100%	Total
185 REEDSPORT SUBSTATION (BPA)	3,472,631	86,674	94%	Network
186 REEDSPORT SUBSTATION (BPA)	206,897	5,164	6%	Utility Delivery
187 REEDSPORT SUBSTATION (BPA)	3,679,527	91,838	100%	Total
188 RINGOLD SUBSTATION	425,799	14,426	74%	Network
189 RINGOLD SUBSTATION	118,297	4,008	21%	Utility Delivery
189 RINGOLD SUBSTATION	28,890	979	5%	Unsegmented
190 RINGOLD SUBSTATION	572,985	19,413	100%	Total
191 SACAJAWEA SUBSTATION	219,162	652	1%	Generation Integration
192 SACAJAWEA SUBSTATION	25,105,927	74,735	99%	Network
193 SACAJAWEA SUBSTATION	25,325,089	75,388	100%	Total
194 SANDPOINT SUBSTATION(BPA)	1,106,305	18,270	85%	Network
195 SANDPOINT SUBSTATION(BPA)	198,146	3,272	15%	Utility Delivery
196 SANDPOINT SUBSTATION(BPA)	1,304,451	21,542	100%	Total
197 SANTIAM SUBSTATION	579,466	6,695	2%	Generation Integration
198 SANTIAM SUBSTATION	27,175,956	313,996	98%	Network
199 SANTIAM SUBSTATION	27,755,422	320,691	100%	Total
200 SCOOTENEY SUBSTATION	1,636,721	37,170	92%	Network
201 SCOOTENEY SUBSTATION	136,876	3,108	8%	Utility Delivery
202 SCOOTENEY SUBSTATION	1,773,597	40,278	100%	Total
203 SELLE SUBSTATION	233,060	2,828	31%	Network
204 SELLE SUBSTATION	512,312	6,216	69%	Utility Delivery
205 SELLE SUBSTATION	745,372	9,044	100%	Total
203 SLATT SUBSTATION	98,688,652	380,738	97%	Network
206 SLATT SUBSTATION	3,052,226	11,775	3%	Southern Intertie
207 SLATT SUBSTATION	101,740,879	392,513	100%	Total
206 STATELINE SUBSTATION	35,972	1,974	25%	Network
208 STATELINE SUBSTATION	105,755	5,803	75%	Utility Delivery
209 STATELINE SUBSTATION	141,727	7,777	100%	Total
208 STEILACOOM SUBSTATION	754,305	10,959	69%	Network
210 STEILACOOM SUBSTATION	346,790	5,039	31%	Utility Delivery
211 STEILACOOM SUBSTATION	1,101,095	15,998	100%	Total
208 SUMMER LAKE SUBSTATION	2,939,477	61,628	43%	Network
212 SUMMER LAKE SUBSTATION	3,896,516	81,693	57%	Southern Intertie
213 SUMMER LAKE SUBSTATION	6,835,992	143,320	100%	Total

**Appendix B**  
**BP-22 Final Proposal Multi-Segmented Facilities Summary**

A	B	C	D	E
Transmission Lines	Investment (\$)	O&M (\$)	Multi %	Segment
212 SURPRISE LAKE SUBSTATION	604,747	12,193	80%	Network
214 SURPRISE LAKE SUBSTATION	155,330	3,132	20%	Utility Delivery
215 SURPRISE LAKE SUBSTATION	760,077	15,325	100%	Total
214 SWAN VALLEY SUBSTATION	12,515,351	76,291	98%	Network
216 SWAN VALLEY SUBSTATION	299,734	1,827	2%	Utility Delivery
217 SWAN VALLEY SUBSTATION	12,815,085	78,118	100%	Total
218 TACOMA SUBSTATION	22,548,405	218,948	99%	Network
219 TACOMA SUBSTATION	312,690	3,036	1%	Unsegmented
220 TACOMA SUBSTATION	22,861,096	221,984	100%	Total
221 TRENTWOOD SUBSTATION	5,750,106	99,119	81%	Network
222 TRENTWOOD SUBSTATION	1,308,478	22,555	18%	DSI Delivery
223 TRENTWOOD SUBSTATION	15,086	260	0.2%	Unsegmented
223 TRENTWOOD SUBSTATION	7,073,670	121,935	100%	Total
218 TROY SUBSTATION	685,866	24,625	63%	Network
224 TROY SUBSTATION	401,606	14,419	37%	Utility Delivery
225 TROY SUBSTATION	1,087,472	39,045	100%	Total
221 TUMBLE CREEK SUBSTATION	974,480	15,212	72%	Network
226 TUMBLE CREEK SUBSTATION	388,364	6,063	28%	Utility Delivery
227 TUMBLE CREEK SUBSTATION	1,362,844	21,275	100%	Total
224 TWO MILE ROAD SUBSTATION	1,107,811	12,664	71%	Network
228 TWO MILE ROAD SUBSTATION	456,726	5,221	29%	Utility Delivery
229 TWO MILE ROAD SUBSTATION	1,564,537	17,885	100%	Total
230 VALHALLA SUBSTATION	4,829,020	61,400	94%	Network
231 VALHALLA SUBSTATION	317,754	4,040	6%	Unsegmented
232 VALHALLA SUBSTATION	5,146,774	65,440	100%	Total
233 WALTON SUBSTATION	213,497	4,404	38%	Network
234 WALTON SUBSTATION	352,343	7,267	62%	Utility Delivery
235 WALTON SUBSTATION	565,840	11,671	100%	Total
233 WINTHROP SUBSTATION	1,349,024	17,044	88%	Network
236 WINTHROP SUBSTATION	180,015	2,274	12%	Utility Delivery
237 WINTHROP SUBSTATION	1,529,039	19,318	100%	Total
236 YAAK SUBSTATION	393,779	2,661	18%	Network
238 YAAK SUBSTATION	1,839,275	12,431	82%	Utility Delivery
239 YAAK SUBSTATION	2,233,054	15,093	100%	Total
	Lines	124,526,895	265,935	
	Stations	1,139,652,299	9,626,646	



