

BP-22 Rate Proceeding

Initial Proposal

Transmission Segmentation Study and Documentation

BP-22-E-BPA-07

December 2020



TRANSMISSION SEGMENTATION STUDY AND DOCUMENTATION

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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 “Council”)
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	National Marine Fisheries Service (NMFS) Federal Columbia River Power System (FCRPS) Biological Opinion (BiOp)
NLSL	New Large Single Load
NMFS	National Marine Fisheries Service
NOAA Fisheries	National Oceanographic and Atmospheric Administration Fisheries
NOB	Nevada-Oregon border
NORM	Non-Operating Risk Model (computer model)
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-IIIE	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-E-BPA-09A, Tables 2.1 to 2.8. The segmented transmission revenue requirement is then used to set transmission rates. *See* Transmission Rates Study and Documentation, BP-22-E-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 Administrator’s Final Record of Decision. See Administrator’s Final Record of Decision, BP-16-A-02, at 67.

2.2 Network Segment

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

This segment includes:

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

2.3 Southern Intertie Segment

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

This segment includes:

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

2.4 Eastern Intertie Segment

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

2.5 Utility Delivery Segment

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

This segment includes:

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

2.6 Direct Service Industry Delivery Segment

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

2.7 Ancillary Services Segment

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

This segment includes:

- monitoring and supervisory control equipment;
- associated communications equipment; and
- control center hardware and software.

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3. ASSIGNING FACILITIES TO THE SEGMENTS

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

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

The following resources may be consulted to segment the facilities:

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

3.1 Multi-Segmented Facilities

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

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

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

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

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

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

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

3.2 Facilities Not Assigned to a Segment

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

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

4. DETERMINING AND ALLOCATING INVESTMENT

AND HISTORICAL O&M EXPENSES TO THE SEGMENTS

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

The segmented investment through September 30, 2019, is shown in Table 2. The segmented expected future plant investment is shown in Table 3.1. The historical O&M by segment for FY 2013 to FY 2019 is shown in Table 4.1.

4.1 Gross Investment in Existing Facilities

BPA's gross investment is shown in Table 1 and illustrated in the associated chart. The investment related to (1) transmission plant, including leased assets, emergency stock, and intangibles, (2) depreciable land, and (3) general plant is identified and segmented in the segmentation process. These investments are described in more detail below. The gross investment is identified from BPA's investment records as of FY 2019, which is the most recently completed fiscal year at the time that this Study is being prepared.

4.1.1 Transmission Plant Investment

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

1 leased facilities but excluding Projects Funded in Advance (PFIA), is \$8.5 billion as of the end of
2 FY 2019 (Table 1, line 24). PFIA are projects funded by the customers taking service over the
3 new facilities. The costs of the new facilities are assigned to and funded by customers consistent
4 with the Facility Ownership and Cost Assignment Guidelines. Other than PFIA, transmission
5 plant investment associated with specific facilities is allocated to segments based on the
6 assignment of facilities to the segments as described in Section 3.

8 **4.1.2 Intangible Investment**

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

15 **4.1.3 Land Investment**

16 Land owned by BPA is not depreciated, and therefore no amortized costs for land need to be
17 segmented. However, BPA does have leased land that is depreciable (\$50.1 million, Table 2,
18 line 37) and which therefore must be segmented. Most of the leased land (\$48.9 million,
19 Table 2, line 34, columns H and I) is used for rights-of-way for transmission lines and is
20 segmented according to the type of service provided by the associated transmission lines. For
21 example, leased land that supports a transmission line segmented to the Network segment is
22 allocated to that segment.

24 BPA also has depreciable leased land (\$0.99 million, Table 2, line 35) associated with radio
25 stations that is not assigned to a specific segment because communication facilities, such as radio
26 stations, generally support all the segments. Therefore, the investment associated with this

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

4 **4.1.4 Ancillary Service Investment**

5 BPA has \$214.7 million in ancillary service investment. Table 2, line 41. This investment
6 includes equipment designated as control equipment (\$85.8 million, Table 2, line 43), hardware
7 and software at the control centers supporting scheduling and dispatch (\$27.1 million, Table 2,
8 line 46), and communications equipment supporting Supervisory Control and Data Acquisition
9 (SCADA) (\$101.7 million, Table 2, line 52). This investment is all allocated to the Ancillary
10 Services segment.

12 **4.1.5 General Plant Investment**

13 General plant investment is associated with equipment of a general nature (FERC accounts 390
14 through 398, with some amounts identified in FERC accounts 352, 353, and 356) (*see* Table 2).
15 BPA's telecommunications system facilities (such as radio stations), maintenance buildings, and
16 vehicles are examples of general plant investment. Through FY 2019, BPA's general plant
17 investment (less PFIA) was \$1.18 billion. Table 2, line 41. General plant investment is not
18 allocated to the segments in this Study. In the Transmission Revenue Requirement Study, the
19 depreciation cost associated with this investment is treated as an overhead expense and allocated
20 pro rata to the segments based on the segmented O&M expenses. *See* Transmission Revenue
21 Requirement Study Documentation, BP-22-E-BPA-09A, § 2.2.

23 **4.2 Retirement of Existing Facilities and Installation of New Facilities**

24 As this Study is being prepared, BPA has the actual investment figure for facilities in place as of
25 the end of FY 2019. To estimate the investment that will be in place during the FY 2022–2023
26 rate period, this figure is adjusted to remove investment in facilities expected to be retired or

1 sold, and to include the forecast of facilities expected to be installed after the end of FY 2019 and
2 before the end of FY 2023. Table 3.1 summarizes the expected station and line investment by
3 segment for fiscal years 2019 through 2021.

4
5 New facility investment is identified in BPA's Integrated Program Review (IPR) process. No
6 specific facilities are identified for retirement in this study. However, as discussed in the
7 Transmission Revenue Requirement Study, the expected investment in new station facilities has
8 been reduced based on historical ratios of retired equipment to new replacement equipment.
9 Transmission Revenue Requirement Study Documentation, BP-22-E-BPA-09A, § 9.2.

11 **4.3 Operations and Maintenance Expense**

12 This study includes historical O&M expenses from plant record data for the last seven fiscal
13 years (2013 through 2019). O&M expenses are categorized into three groups (see Table 4.2):

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

17
18 The O&M expenses allocated to lines and substations include substation operations, various
19 transmission maintenance programs, technical training, vegetation management, and
20 environmental expenses, such as pollution controls. These expenses are segmented according to
21 the facilities supported (see Table 4.3). The seven-year historical line and substation O&M
22 expenses average \$184.1 million annually (Table 4.1, line 16). The segmented historical costs
23 are used to allocate the projected future O&M costs. See Transmission Revenue Requirement
24 Study Documentation, BP-22-E-BPA-09A, § 2.2.

Scheduling costs and system operations costs are for staff and technology associated with reserving, scheduling, monitoring, controlling, and dispatching the transmission system. The seven-year average historical scheduling and dispatch cost is \$61.4 million (Table 4.1, line 18). Rate period forecast scheduling and system operations costs are directly assigned to the Ancillary Services segment and recovered through the SCD service rate. See Transmission Revenue Requirement Study Documentation, BP-22-E-BPA-09A, § 2.2.

Marketing and business support costs are associated with general business functions, including sales and contract management, billing, business strategy, legal support, aircraft services, and general administration and executive services. The seven-year historical marketing and support costs average \$55.7 million (Table 4.1, line 18). Rate period forecast costs are allocated pro rata on a net plant basis based on the directly assigned investment. See Transmission Revenue Requirement Study Documentation, BP-22-E-BPA-09A, § 2.2.

4.3.1 Historical Line and Station O&M Assignment to Segments

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

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

one segment, then the O&M is also allocated entirely to that segment. The allocation of O&M for each facility is identified in Appendix A. The direct O&M expenses are then aggregated by category and facility type (see Table 4.3).

3. Non-direct O&M expenses (that is, expenses not identified with a specific facility) are aggregated by category and allocated to the facility types (transmission lines, substations, or metering locations) in the same proportions as the direct O&M expenses. For example, if 80 percent of direct O&M expenses for substation maintenance are assigned to substations, then 80 percent of non-direct O&M expenses for substation maintenance are assigned to substations. Technical training and environmental analysis have no direct O&M expense and are allocated to facility type in the same proportions as the total direct O&M expenses for each facility type. Thus, for example, since about 18 percent of direct expenses are allocated to transmission lines, 18 percent of technical training expenses are allocated to transmission lines. Transmission line maintenance, vegetation management, and right-of-way maintenance non-direct O&M expenses are allocated entirely to transmission lines.
4. The sum of the non-direct O&M expense for each facility type is shown in Table 4.3, line 15. These amounts are allocated to the segments in the same proportion as the direct expenses for each facility type. For example, 90.4 percent of direct O&M expenses for transmission lines were allocated to the Network. Therefore, 90.4 percent of non-direct O&M expenses for transmission lines are allocated to the Network. Table 4.1, lines 11 and 15.

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

The investment and annual O&M expenses for the U.S. Army Corps of Engineers (Corps) and U.S. Bureau of Reclamation (Reclamation) facilities that function as part of BPA's transmission

1 system are included in the transmission revenue requirement, even though BPA does not own
2 these facilities. The total Corps and Reclamation expenses allocated to transmission were
3 identified in the BP-18 generation inputs settlement. Administrator's Final Record of Decision,
4 BP-18-A-04, Appendix B, Attachment 3. The segmentation of these expenses is based on an
5 analysis of the Corps and Reclamation facilities summarized in Table 5. As shown, 97.9 percent
6 of the expenses are segmented to the Network and 2.1 percent of the expenses are segmented to
7 Utility Delivery.

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TABLES

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Table 1
BPA Investment Summary, through Sept. 30, 2019
(\$000)

A		B	C	D	E
<u>Category</u>		<u>Total</u>	<u>Funded in Advance</u>	<u>PFIA Stations</u>	<u>PFIA Lines</u>
1 TRANSMISSION PLANT IN SERVICE		6,692,874	155,293	100,337	54,957
2 MASTER LEASE - TRANSMISSION PLANT		1,742,262			
3 LEASED ASSETS		127,948			
4 CAPITAL LEASES		20,020			
5 EMERGENCY MINIMUM STOCK		14,402			
6 INTANGIBLES		9,559			
7 FEE LAND IN SERVICE		191,365	238	44,172	146,955
8 DEPRECIABLE FEE LAND		50,171	107	1,139	48,926
9 GENERAL PLANT IN SERVICE		1,207,984	38,493		
10 MASTER LEASE - GENERAL PLANT		142,570			
11 Corporate Plant in Service		112,581			
12 PS Plant in Service		30,253			
13 Accounting Adjustments		7,853			
14 Grand Total		10,349,841	194,131		
<u>Transmission Plant</u>			<u>Segmented</u>	<u>Unsegmented</u>	<u>Ancillary Service</u>
15 Substations		4,419,120			
16 Metering Locations		17,607			
17 Total Stations		4,436,727	4,427,482	9,245	
18 Total Lines		3,769,291	3,738,852	30,440	
19 Other Transmission Plant		136,016		136,016	
20 Emergency minimum stock		14,402		14,402	
21 Intangibles		9,559	9,559		
22 Communication Equipment (397)		101,732		0	101,732
23 Control Equipment (353.1)		85,775			85,775
24 TPLNT (inc Leases) less PFIA		8,451,771	8,175,893	190,103	187,507
<u>General Plant</u>					
25 Communication Equipment (397)		632,582		632,511	71
26 Control Equipment (353.1, 391.2.2, 391.3.2)		27,085			27,085
27 Other General Plant		550,356		550,356	
28 GPLNT less PFIA		1,312,060		1,182,867	27,156
<u>Subtotals</u>					
29 Communication Equipment (397)		734,314		632,511	101,803
30 Control Equipment (353.1, 391.2.2, 391.3.2)		112,860			112,860
31 Total (incl. Dep Land GPlant)				1,182,867	214,663

**Chart 1 - BPA Plant Investment
as of September 30, 2019**
Total: \$10,349,841
(\$000)

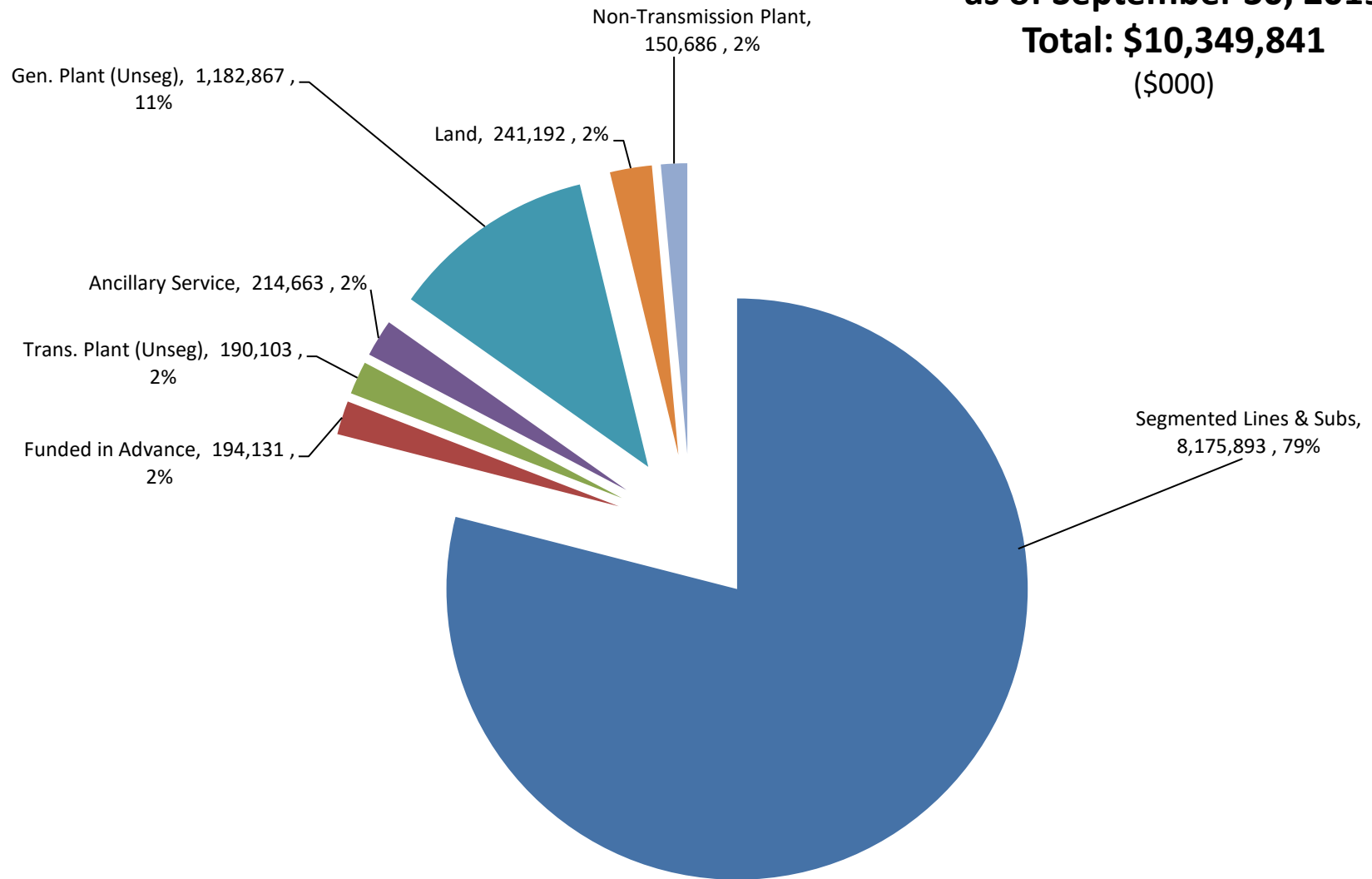


Table 2
BPA Segmented Investment, through Sept. 30, 2019
(\$000)

A	B	C	D	E	F	G	H	I
	<u>Generation</u>	<u>Network</u>	<u>Southern</u>	<u>Eastern</u>	<u>Utility</u>		<u>Segmented</u>	
	<u>Integration</u>		<u>Intertie</u>	<u>Intertie</u>	<u>Delivery</u>	<u>DSI Delivery</u>	<u>Total</u>	<u>Un-segmented</u>
1 Stations	106,028	3,485,254	783,406	27,368	17,089	8,337	4,427,482	9,245
2 Other Facilities								136,016
3 Emergency Stock								14,402
4 Unseg.Allocation	3,824	125,685	28,251	987	616	301	159,663	(159,663)
5 Subtotal	109,852	3,610,939	811,657	28,355	17,706	8,637	4,587,146	-
FERC Account Summary								
6 Account 352							484,175	
7 Account 353							4,047,542	
8 Account 354							25,616	
9 Account 355							5,734	
10 Account 356							11,945	
11 Account 358							111	
12 Account 359							11,957	
13 Account 390							-	
14 Account 391							-	
15 Leased (no account)							67	
16 Substation total							4,587,146	
17 Lines	31,409	3,304,897	307,862	94,271	413	-	3,738,852	30,440
18 Unseg.Allocation	256	26,907	2,506	768	3	-	30,440	(30,440)
19 Subtotal	31,665	3,331,803	310,368	95,039	417	-	3,769,291	-
FERC Account Summary								
20 Account 352							2,988	
21 Account 353							32,302	
22 Account 354							1,258,226	
23 Account 355							496,425	
24 Account 356							1,531,003	
25 Account 358							21,799	
26 Account 359							361,324	
27 Leased (no account)							65,224	
28 Line total							3,769,291	
29 Intangibles (Account 303)		4,085	5,473				9,559	

Table 2
BPA Segmented Investment, through Sept. 30, 2019
(\$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>
30 Lines & Subs Total	141,517	6,946,828	1,127,498	123,394	18,122	8,637	8,365,996	-
31 % of Segmented Total	1.7%	83.0%	13.5%	1.5%	0.2%	0.1%	100.0%	
32 Depreciable Land (Account 350)								
33 Substations	9	143	-	-	-	-	152	-
34 Lines	61	48,325	277	-	-	-	48,664	263
35 Other Facilities								986
36 Unseg.Allocation	21	1,037	168	18	3	1	1,249	(1,249)
37 Subtotal	91	49,506	446	18	3	1	50,065	-
							Ancillary	
Other							Services	General Plant
38 Control							112,860	
39 Communications							101,803	632,511
40 General Plant								550,356
41 Subtotal							214,663	1,182,867
FERC Account Summary								
42 Account 352								-
43 Account 353 (Ancillary service is control equipment only)							85,775	-
44 Account 356								-
45 Account 390								290,637
46 Account 391 (Ancillary service is control equipment only)							27,085	28,814
47 Account 392								79,061
48 Account 393								3,917
49 Account 394								14,994
50 Account 395								34,260
51 Account 396								34,147
52 Account 397 (Ancillary service is control equipment only)							101,732	632,511
53 Account 398								64,528
54 Other total							214,592	1,182,867
55 Segmented Investment	141,608	6,996,333	1,127,944	123,412	18,125	8,638	214,663	1,182,867

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

A	B	C	D	E	F	G	H
	<u>Generation Integration</u>	<u>Network</u>	<u>Southern Intertie</u>	<u>Eastern Intertie</u>	<u>Utility Delivery</u>	<u>DSI Delivery</u>	<u>Total</u>
Stations							
1 FY 2021	-	188,578	2,412	-	-	-	190,990
2 FY 2022	-	173,605	2,024	-	-	-	175,630
3 FY 2023	-	238,744	2,054	-	-	-	240,798
Lines							
4 FY 2021	-	69,736	1,243	-	-	-	70,980
5 FY 2022	-	95,331	1,215	-	-	-	96,546
6 FY 2023	-	101,206	1,233	-	-	-	102,439
Lines & Subs							
7 FY 2021	-	258,314	3,656		-	-	261,970
8 FY 2022	-	268,936	3,239		-	-	272,175
9 FY 2023	-	339,950	3,287		-	-	343,237
Other							
	Ancillary Services	General Plant					
10 FY 2021	4,332	133,287					
11 FY 2022	17,467	173,274.79					
12 FY 2023	19,406	190,539.16					

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

	A Project	B C D Total			E F G Substation			H I J Line			K L M General Plant & Ancillary		
		FY21	FY22	FY23	FY21	FY22	FY23	FY21	FY22	FY23	FY21	FY22	FY23
	MAIN GRID PROJECTS												
1	WEST OF CASCADES NORTH TRANSFER AREA	-	19,649	-	-	15,719	-	-	1,965	-	-	1,965	-
2	WEST OF CASCADES SOUTH TRANSFER AREA	-	-	-	-	-	-	-	-	-	-	-	-
3	MONTANA TO NORTHWEST TRANSFER AREA	-	-	-	-	-	-	-	-	-	-	-	-
4	NORTHWEST TO CALIFORNIA TRANSFER AREA	-	-	-	-	-	-	-	-	-	-	-	-
5	LOWER COLUMBIA TRANSFER AREA	-	-	-	-	-	-	-	-	-	-	-	-
6	SEATTLE TO PORTLAND TRANSFER AREA	-	-	-	-	-	-	-	-	-	-	-	-
7	PUGET SOUND TO CANADA TRANSFER AREA	-	-	-	-	-	-	-	-	-	-	-	-
8	MISC MAIN GRID PROJECTS	7,731	-	-	6,958	-	-	773	-	-	-	-	-
	AREA & CUSTOMER SERVICE PROJECTS												
9	SOUTHWEST IDAHO / NORTHWEST WYOMING AREA	-	2,181	2,800	-	2,181	2,800	-	-	-	-	-	-
10	LONGVIEW AREA	9,602	-	-	9,602	-	-	-	-	-	-	-	-
11	NORTHWEST MONTANA AREA	972	-	-	972	-	-	-	-	-	-	-	-
12	BURLEY / SOUTHERN IDAHO AREA	-	-	-	-	-	-	-	-	-	-	-	-
13	CENTRAL OREGON AREA	-	-	18,831	-	-	18,831	-	-	-	-	-	-
14	CENTRALIA / CHEHALIS AREA	-	450	124	-	450	-	-	-	124	-	-	-
15	DE MOSS / FOSSIL AREA	-	1,000	-	-	800	-	-	200	-	-	-	-
16	EUGENE AREA	50	1,513	7,179	50	1,403	5,892	-	110	1,287	-	-	-
17	HOOD RIVER / THE DALLES AREA	1,967	-	5,643	1,967	-	5,643	-	-	-	-	-	-
18	MID-COLUMBIA AREA	3,090	-	-	3,090	-	-	-	-	-	-	-	-
19	NORTH IDAHO AREA	441	99	1,500	441	99	1,500	-	-	-	-	-	-
20	NORTH OREGON COAST AREA	-	-	-	-	-	-	-	-	-	-	-	-
21	OKANOGAN AREA	-	-	-	-	-	-	-	-	-	-	-	-
22	OLYMPIC PENINSULA AREA	5,663	-	-	5,576	-	-	-	-	-	87	-	-
23	PENDLETON / LA GRANDE AREA	-	-	-	-	-	-	-	-	-	-	-	-
24	PORTLAND AREA	-	4,106	-	-	2,874	-	-	821	-	-	411	-
25	SALEM / ALBANY AREA	-	850	4,110	-	850	2,877	-	-	822	-	-	411
26	SEATTLE / TACOMA / OLYMPIA AREA	17,212	4,449	5,980	14,706	3,116	4,186	1,312	1,333	598	1,194	-	1,196
27	SOUTH OREGON COAST AREA	115	1,600	10,440	115	1,360	10,440	-	80	-	-	160	-
28	SOUTHWEST WASHINGTON COAST AREA	-	161	-	-	-	-	-	161	-	-	-	-
29	SPOKANE / COLVILLE / BOUNDARY AREA	-	729	367	-	729	367	-	-	-	-	-	-
30	TRI-CITIES AREA	-	8,775	27,450	-	5,106	15,570	-	3,508	8,685	-	161	3,195
31	VANCOUVER AREA	-	-	2,182	-	-	2,075	-	-	107	-	-	-
32	WALLA WALLA AREA	-	-	-	-	-	-	-	-	-	-	-	-
33	MISC AREA & CUSTOMER SERVICE	3,994	700	14,384	3,994	700	14,384	-	-	-	-	-	-
	UPGRADES & ADDITIONS												
34	SYSTEM TELECOM	4,022	-	2,779	-	-	-	-	-	-	4,022	-	2,779
35	SUB DC	-	-	-	-	-	-	-	-	-	-	-	-
36	CONTROL CENTERS	-	-	-	-	-	-	-	-	-	-	-	-
37	LINES	1,170	-	-	-	-	-	1,170	-	-	-	-	-
38	SUB AC	2,336	5,650	12,835	2,336	5,650	12,835	-	-	-	-	-	-
39	IT	20,876	-	-	-	-	-	-	-	-	20,876	-	-
40	MISC FACILITIES - NON-ELECTRIC	-	-	-	-	-	-	-	-	-	-	-	-
41	MISC UPGRADES & ADDITIONS	20	-	7,868	20	-	7,868	-	-	-	-	-	-
	SYSTEM REPLACEMENTS												
42	SUB AC SUSTAIN	43,700	44,000	44,000	43,700	44,000	44,000	-	-	-	-	-	-
43	CC SUSTAIN	-	6,000	6,000	-	-	-	-	-	-	-	6,000	6,000
44	ACCESS ROADS - SUSTAIN	-	16,000	14,000	-	-	-	-	-	-	-	16,000	14,000
45	LAND RIGHTS - SUSTAIN	5,300	3,000	3,000	-	-	-	-	-	-	5,300	3,000	3,000

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

	A Project	B C D			E F G			H I J			K L M		
		Total			Substation			Line			General Plant & Ancillary		
		FY21	FY22	FY23	FY21	FY22	FY23	FY21	FY22	FY23	FY21	FY22	FY23
	SYSTEM REPLACEMENTS CONTINUED												
46	LINES WOOD POLES SUSTAIN	18,700	33,000	33,000	-	-	-	18,700	33,000	33,000	-	-	-
47	LINES STEEL SUSTAIN	18,700	24,000	24,000	-	-	-	18,700	24,000	24,000	-	-	-
48	SUB DC SUSTAIN	12,500	3,000	3,000	12,500	3,000	3,000	-	-	-	-	-	-
49	SYSTEM TELECOM SUSTAIN	28,500	26,500	26,500	-	-	-	-	-	-	28,500	26,500	26,500
50	PSC - TELECOM TRANSPORT	-	-	-	-	-	-	-	-	-	-	-	-
51	PSC SUSTAIN	20,350	26,500	26,500	4,070	5,300	5,300	-	-	-	16,280	21,200	21,200
52	SPC SUSTAIN	17,050	21,000	21,000	15,345	18,900	18,900	-	-	-	1,705	2,100	2,100
53	TEAP - TOOLS	1,000	1,000	1,000	-	-	-	-	-	-	1,000	1,000	1,000
54	TEAP EQUIPMENT FLEET	7,039	10,000	12,000	-	-	-	-	-	-	7,039	10,000	12,000
55	LINES - RATING PROGRAM & COMPLIANCE	400	1,000	3,000	-	-	-	400	1,000	3,000	-	-	-
56	SECURITY	9,254	8,000	8,200	8,328	7,200	7,380	-	-	-	925	800	820
57	MISC NON-ELECTRIC FACILITIES	30,741	74,200	88,200	-	-	-	-	-	-	30,741	74,200	88,200
58	MISC SYSTEM REPLACEMENTS	-	-	-	-	-	-	-	-	-	-	-	-
	OTHER												
59	TOTAL ENVIRONMENT	12,946	11,190	11,210	7,346	5,580	5,590	5,600	5,610	5,620	-	-	-
60	ITS PROGRAM INDIRECT	52,708	53,390	54,072	26,354	26,695	27,036	15,812	16,017	16,222	10,542	10,678	10,814
61	CORPORATE G&A CAP DISTRIBUTION	47,041	47,835	48,647	23,520	23,917	24,323	14,112	14,350	14,594	9,408	9,567	9,729
62	CAPITAL LEASE MODIFICATION	-	-	-	-	-	-	-	-	-	-	-	-
63	TOTALS:	405,189	461,527	551,802	190,990	175,630	240,798	76,580	102,156	108,059	137,619	183,741	202,945

Table 4.1
BPA Historical Operations and Maintenance (O&M)
Fiscal years 2013 through 2019 (Seven Years)
(Annual Average \$000)

A	B	C	D	E	F	G	H
	<u>Generation Integration</u>	<u>Network</u>	<u>Southern Intertie</u>	<u>Eastern Intertie</u>	<u>Utility Delivery</u>	<u>DSI Delivery</u>	<u>Total</u>
Stations							
1 Substations Direct Allocation	1,091	34,440	6,031	259	308	174	42,303
2 % Direct	2.6%	81.4%	14.3%	0.6%	0.7%	0.4%	100.0%
3 Unsegmented Allocation	233	7,365	1,290	55	66	37	9,047
4 Non-Direct Allocation	2,023	63,875	11,186	480	571	322	78,457
5 Metering Direct Allocation	16	332	-	-	20	-	368
6 % Direct	4.4%	90.2%	0.0%	0.0%	5.4%	0.0%	100.00%
7 Non-Direct Allocation	21	424	-	-	25	-	469
8 Total Station O&M	3,384	106,436	18,507	793	990	534	130,645
9 Station Percent	2.6%	81.5%	14.2%	0.6%	0.8%	0.4%	100.0%
Lines							
10 Direct Allocation	100	8,184	406	362	2	-	9,055
11 % Direct	1.1%	90.4%	4.5%	4.0%	0.0%	0.0%	100.00%
12 Unsegmented Allocation	1	69	3	3	0	-	76
13 Non-Direct Allocation	492	40,091	1,991	1,773	11	-	44,359
14 Total Line O&M	593	48,344	2,401	2,138	13	-	53,490
15 Line Percent	1.1%	90.4%	4.5%	4.0%	0.0%	0.0%	100.0%
16 Lines & Subs	3,978	154,780	20,908	2,932	1,004	534	184,135
17 % of Segmented Total	2.2%	84.1%	11.4%	1.6%	0.5%	0.3%	100.0%
Ancillary							
	<u>Overhead</u>	<u>Services</u>					
18 Other	55,655	61,403					

Table 4.2
Historical Operation and Maintenance (O&M) Expenses FY 2013 - FY 2019 (7 years)
Total O&M by category
(\$000)

A	B	C	D	E	F	G	H	I
	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>Average</u>
<u>O&M allocated to Lines and Stations</u>								
1 ENVIRONMENTAL POLICY/PLANNING	0	5	19	6	6	1	2	5
2 POLLUTION PREVENTN & ABATEMENT	3,427	4,221	4,244	4,808	4,161	4,290	3,778	4,133
3 HEAVY MOBILE EQUIPMENT MAINT	(125)	200	116	312	427	55	588	225
4 JOINT COST MAINTENANCE	123	134	175	230	190	301	263	202
5 NON-ELECTRIC MAINTENANCE	25,204	21,296	32,203	27,546	28,872	26,636	30,892	27,521
6 POWER SYSTEM CONTROL MAINT	17,623	20,791	18,939	19,095	21,589	20,662	20,836	19,933
7 ROW MAINTENANCE	7,298	7,396	6,502	7,785	10,401	8,073	8,421	7,982
8 SUBSTATION MAINTENANCE	27,726	30,365	36,926	31,125	30,860	32,051	33,038	31,727
9 SYSTEM MAINTENANCE MANAGEMENT	7,076	8,214	6,041	8,555	8,348	8,480	8,604	7,903
10 SYSTEM PROTECTION CONTRL MAINT	11,869	11,963	12,718	13,222	14,921	15,239	16,485	13,774
11 TECHNICAL TRAINING	2,211	2,087	2,317	2,719	2,796	2,897	2,637	2,524
12 TRANSMISSION LINE MAINTENANCE	26,572	27,782	27,733	25,564	27,574	26,565	27,987	27,111
13 VEGETATION MANAGEMENT	17,928	19,536	18,223	16,489	16,784	18,112	18,709	17,969
14 SUBSTATION OPERATIONS	21,750	22,787	23,347	23,572	23,444	23,673	23,309	23,126
15 Subtotal Lines and Stations	168,682	176,776	189,504	181,027	190,373	187,035	195,547	184,135
<u>O&M allocated to Ancillary Services</u>								
16 SCHED-AFTER-THE-FACT	236	240	237	273	305	158	136	226
17 SCHED-MANAGE SPRVISION & ADMIN	0	0	0	0	0	0	0	0
18 SCHED-PRE-SCHEDULING	240	328	344	382	211	134	54	242
19 SCHED-REAL-TIME SCHEDULING	3,879	4,056	4,323	4,739	5,062	5,062	4,906	4,575
20 SCHED-RESERVATIONS	4,160	1,049	1,156	1,167	1,211	1,029	813	1,512
21 SCHED-TECHNICAL SUPPORT	432	3,940	3,732	3,641	3,656	3,452	3,281	3,162
22 CONTROL CENTER SUPPORT	14,062	19,368	20,849	23,066	23,567	24,147	24,144	21,315
23 INFORMATION TECHNOLOGY	9,115	12,522	8,103	9,436	9,903	11,663	12,307	10,435
24 POWER SYSTEM DISPATCHING	12,155	12,260	13,209	13,913	13,722	14,705	15,775	13,677
25 TECHNICAL OPERATIONS	4,410	5,854	6,288	7,648	6,691	5,984	6,930	6,258
26 Subtotal Ancillary Services	48,689	59,616	58,241	64,265	64,327	66,333	68,347	61,403
<u>O&M identified as Overhead</u>								
27 TRANS GRID MOD KSI EXP	0	0	0	0	1,173	3,577	7,011	1,680
28 STRATEGIC INTEGRATION	0	0	585	2,414	2,028	1,694	1,389	1,159
29 AIRCRAFT SERVICES	1,205	1,273	1,234	1,094	882	1,437	849	1,139
30 COMM ACT EXEC & ADMIN SVCS	10,364	10,318	11,727	16,530	16,908	19,128	18,743	14,817
31 GENERAL ADMINISTRATIVE	9,199	13,469	12,913	11,047	9,847	12,658	13,540	11,810
32 KSI ASSET MANAGEMENT EXP	0	0	0	0	708	740	272	246
33 LEGAL SUPPORT - EXPENSE	2,240	2,586	2,250	2,611	2,304	2,411	2,205	2,372
34 LOGISTICS SERVICES	4,710	5,340	5,598	6,685	5,861	6,188	7,165	5,935
35 MKTG BUSINESS STRAT & ASSESS	6,552	6,216	6,687	6,836	7,239	7,321	6,473	6,761
36 MKTG CONTRACT MANAGEMENT	4,498	4,509	4,244	4,453	4,465	3,766	3,244	4,168
37 MKTG INTERNAL OPERATIONS	0	0	0	0	0	0	0	0
38 MKTG TRANSMISSION BILLING	2,528	2,358	2,414	2,318	2,093	2,036	2,362	2,301
39 MKTG TRANSMISSION FINANCE	(6)	(0)	0	0	0	0	0	(1)
40 MKTG TRANSMISSION SALES	2,509	2,418	2,354	2,299	2,524	2,677	2,875	2,522
41 SECURITY ENHANCEMENTS EXPENSE	705	507	1,201	889	547	727	640	745
42 Subtotal Overhead	44,504	48,994	51,205	57,177	56,581	64,361	66,766	55,655
43 Total Historical O&M	261,875	285,385	298,950	302,469	311,282	317,729	330,660	301,193

Table 4.3
Historical Operation and Maintenance (O&M) Expenses FY 2013 - FY 2019 (7 years)
Allocation of average historical O&M to Lines, Substations, and Metering Locations
(\$000)

A	B	C	D	E	F	G	H	I
	<u>Lines</u>	<u>Subs</u>	<u>Metering</u>	<u>Subtotal</u>	<u>Lines</u>	<u>Subs</u>	<u>Metering</u>	<u>Subtotal</u>
1 ENVIRONMENTAL POLICY/PLANNING	0	0	0	0	1	5	0	5
2 POLLUTION PREVENTN & ABATEMENT	87	23	0	110	0	4,023	0	4,023
3 HEAVY MOBILE EQUIPMENT MAINT	0	0	0	0	0	225	0	225
4 JOINT COST MAINTENANCE	0	202	0	202	0	1	0	1
5 NON-ELECTRIC MAINTENANCE	0	9,145	15	9,160	0	18,331	31	18,361
6 POWER SYSTEM CONTROL MAINT	0	6,846	58	6,904	0	12,917	112	13,030
7 ROW MAINTENANCE	0	67	0	67	7,915	0	0	7,915
8 SUBSTATION MAINTENANCE	12	19,072	62	19,145	7	12,534	41	12,582
9 SYSTEM MAINTENANCE MANAGEMENT	0	1	0	1	0	7,901	0	7,901
10 SYSTEM PROTECTION CONTRL MAINT	0	6,399	190	6,590	0	6,974	209	7,184
11 TECHNICAL TRAINING	0	0	0	0	376	2,132	15	2,524
12 TRANSMISSION LINE MAINTENANCE	8,972	0	0	8,972	18,139	0	0	18,139
13 VEGETATION MANAGEMENT	56	0	0	56	17,913	0	0	17,913
14 SUBSTATION OPERATIONS	5	9,594	43	9,643	7	13,415	61	13,483
15 Total	9,131	51,349	368	60,849	44,359	78,457	469	123,286

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
1	<u>BOR Project Transmission Facilities:</u>			
2	Columbia Basin (Grand Coulee) Project	210,301,526	92,909,501	2,146,801
3	Other Projects	27,525,968	3,971,651	0
4	Total BOR Projects	237,827,494	96,881,151	2,146,801
5	<u>COE Project Transmission Facilities:</u>			
6	Bonneville Project	29,797,086	2,700,095	0
7	TOTAL ALL PROJECTS:	267,624,580	99,581,246	2,146,801
8	TOTAL TRANSMISSION ALLOCATION:	101,728,047	97.89%	2.11%

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Appendix A
BP-22 Rate Case Initial Proposal
Segmentation Details

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Appendix A BP-22 Rate Case Initial Proposal Segmentation Details

A		B	C	D
Transmission Lines		Investment (\$)	O&M (\$)	Multi %
<u>Generation Integration Facilities</u>				
1	ANDERSON RANCH-MOUNTAIN HOME NO 1	4,449,861	13,416	
2	BIG CLIFF-DETROIT PH NO 1	181,340	1,991	
3	BIG CLIFF-DETROIT PH NO 2	181,340	31	
4	BLACK CANYON-EMMETT NO 1	307,180	5,704	
5	BONNEVILLE PH 1-NORTH BONNEVILLE NO 1	85,578	2,822	
6	BONNEVILLE PH 1-NORTH BONNEVILLE NO 2	86,775	4,734	
7	BONNEVILLE PH 2-NORTH BONNEVILLE NO 3	98,469	214	
8	BONNEVILLE PH 2-NORTH BONNEVILLE NO 4	1,214,223	96	
9	CHANDLER TAP TO GRANDVIEW-RED MOUNTAIN NO 1	163,062	1,437	
10	CHIEF JOSEPH PH-CHIEF JOSEPH NO 1	68,924	774	
11	CHIEF JOSEPH PH-CHIEF JOSEPH NO 2	89,376	700	
12	CHIEF JOSEPH PH-CHIEF JOSEPH NO 3	82,433	268	
13	CHIEF JOSEPH PH-CHIEF JOSEPH NO 4	475,202	3,364	
14	CHIEF JOSEPH PH-CHIEF JOSEPH NO 5	439,561	2,948	
15	CHIEF JOSEPH PH-CHIEF JOSEPH NO 6	78,094	237	
16	COLUMBIA GENERATING STATION-ASHE NO 1	463,009	240	
17	COLUMBIA GENERATING STATION-ASHE NO 2	157,134	155	
18	COUGAR-HOLDEN CREEK NO 1	3,085,955	38,156	21%
19	DETROIT PH-DETROIT NO 1	42,262	1,840	
20	DETROIT PH-DETROIT NO 2	42,262	98	
21	DETROIT-SANTIAM NO 1	1,927,744	9,113	
22	DWORSHAK PH-DWORSHAK NO 1	1,225,822	1,233	
23	DWORSHAK PH-DWORSHAK NO 1 ML CLEARWATER CO	76,474	-	
24	GREEN PETER-LEBANON NO 1	1,024,116	16,945	35%
25	HILLS CREEK-LOOKOUT POINT NO 1	1,633,934	42,764	19%
26	ICE HARBOR-FRANKLIN NO 1	587,534	7,128	
27	ICE HARBOR-FRANKLIN NO 2	570,551	854	3%
28	ICE HARBOR-FRANKLIN NO 3	1,465,528	906	9%
29	JOHN DAY PH-JOHN DAY NO 1	4,121,180	1,034	
30	JOHN DAY PH-JOHN DAY NO 2	3,528,650	1,179	
31	JOHN DAY PH-JOHN DAY NO 3	2,987,559	1,136	
32	JOHN DAY PH-JOHN DAY NO 4	4,056,592	1,661	
33	JOHN DAY STATION SERVICE-JOHN DAY NO 1	24,389	3,160	
34	LIBBY PH-LIBBY NO 1	278,220	195	
35	LIBBY PH-LIBBY NO 2	265,855	1,494	
36	LITTLE GOOSE PH-LITTLE GOOSE NO 1	288,469	1,363	
37	LOOKOUT POINT PH-LOOKOUT POINT NO 1	10,253	461	
38	LOWER GRANITE PH-LOWER GRANITE NO 1	433,123	1,377	
39	LOWER MONUMENTAL PH-LOWER MONUMENTAL NO 1	236,523	3,582	
40	MCNARY PH-MCNARY 3&4 NO 3	135,173	127	
41	MCNARY PH-MCNARY NO 1	76,683	140	
42	MCNARY PH-MCNARY NO 2	74,361	(1,215)	
43	MCNARY PH-MCNARY NO 5	101,717	135	
44	MCNARY PH-MCNARY NO 6	112,595	312	
45	THE DALLES PH-BIG EDDY NO 1	118,075	2,283	
46	THE DALLES PH-BIG EDDY NO 2	121,407	309	
47	THE DALLES PH-BIG EDDY NO 3	107,356	313	
48	THE DALLES PH-BIG EDDY NO 4	107,351	217	
49	THE DALLES PH-BIG EDDY NO 5	116,296	207	
50	THE DALLES PH-BIG EDDY NO 6	117,572	228	
51	Subtotal Lines	37,723,142	177,866	
Stations		Investment (\$)	O&M (\$)	Multi %
52	ALBENI FALLS SUBSTATION	1,462,575	23,529	25%
53	ASHE SUBSTATION	46,160,489	571,428	8%
54	BIG EDDY SUBSTATION	92,230,829	537,345	4%
55	BONNEVILLE POWERHOUSE #1	843,745	11,211	
56	CHIEF JOSEPH SUBSTATION	46,242,460	502,242	
57	CHIEF JOSEPH POWERHOUSE	102,351	6,494	26%
58	COUGAR SUBSTATION	255,378	10,859	
59	DETROIT SUBSTATION	1,062,141	14,023	
60	DWORSHAK SUBSTATION	25,768,294	184,278	18%
61	DWORSHAK POWERHOUSE	190,858	8,871	
62	FOSTER SUBSTATION	42,312	7,182	
63	FRANKLIN SUBSTATION	16,422,006	373,005	12%
64	GRAND COULEE 500 KV SWITCHYARD	3,732,833	35,339	

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

	A	B	C	D
65	GRAND COULEE 115 KV SWITCHYARD	75,243	17,257	
66	GRAND COULEE 230 KV SWITCHYARD	1,777,144	13,854	
67	GREEN PETER SUBSTATION	257,380	5,323	
68	HANFORD NO.2 CONSTRUCTION SUBSTATION	58,241	8,463	
69	HUNGRY HORSE POWERHOUSE	800,514	8,012	
70	HUNGRY HORSE SWITCHYARD	89,046	-	
71	HILLS CREEK SUBSTATION	379,427	12,353	
72	ICE HARBOR POWERHOUSE	187,633	8,571	
73	JOHN DAY SUBSTATION	52,131,541	660,045	29%
74	JOHN DAY POWERHOUSE	276,948	1,649	
75	LIBBY POWERHOUSE	675,088	13,272	
76	LOST CREEK POWERHOUSE	53,123	728	
77	LOWER GRANITE POWERHOUSE	358,521	6,465	
78	LIBBY SUBSTATION(BPA)	10,159,724	272,873	31%
79	LITTLE GOOSE SUBSTATION	85,093,598	196,820	20%
80	LITTLE GOOSE POWERHOUSE	489,782	5,345	
81	LOOKOUT POINT SUBSTATION	4,439,715	28,961	25%
82	LOWER MONUMENTAL POWERHOUSE	393,152	5,128	
83	LOWER GRANITE SUBSTATION	15,226,680	151,777	25%
84	LOWER MONUMENTAL SUBSTATION	41,712,462	296,323	13%
85	LOOKOUT POINT POWERHOUSE	222,084	764	
86	MCNARY SUBSTATION	129,616,831	652,600	9%
87	MCNARY POWERHOUSE	1,080,165	16,212	
88	MOUNTAIN HOME SUBSTATION(BPA)	174,369	21,561	
89	NORTH BONNEVILLE SUBSTATION	15,659,516	235,369	31%
90	ROZA POWERHOUSE	23,450	-	
91	SACAJAWEA SUBSTATION	25,325,089	74,449	1%
92	SANTIAM SUBSTATION	27,602,885	295,494	2%
93	THE DALLES POWERHOUSE	667,344	10,694	
94	WPPSS NO. 2 POWERHOUSE	463,746	17,202	
95	COLUMBIA GENERATING STATION SUBSTATION (ENERGY NORTHWEST)	110,860	-	
96	MINIDOKA POWERHOUSE	241,006	7,164	
97	PALISADES POWERHOUSE	620,267	8,975	
98	Subtotal Stations	650,958,844	5,339,507	
99	Total Generation Integration	688,681,986	5,517,373	

Network Facilities

	Transmission Lines	Investment (\$)	O&M (\$)	Multi %
100	ABERDEEN TAP TO SATSOP PARK-COSMOPOLIS NO 1	1,597,354	3,065	
101	ACORD TAP TO GRANDVIEW-RED MOUNTAIN NO 1 (UNKNOWN)	256,732	-	
102	ADAIR TAP TO SALEM-ALBANY NO 2	83,392	116	
103	ADDY-COLVILLE NO 1	57,448	841	
104	ADDY-CUSICK NO 1	5,669,101	9,543	
105	ALBANY-BURNT WOODS NO 1	1,131,766	7,748	
106	ALBANY-BURNT WOODS NO 1 ML BENTON CO	2,789,686	-	
107	ALBANY-BURNT WOODS NO 1 ML LINCOLN CO	94,000	-	
108	ALBANY-BURNT WOODS NO 1 ML LINN CO	250,687	-	
109	ALBANY-EUGENE NO 1	6,447,801	47,775	
110	ALBANY-EUGENE NO 1 (ML LANE CO)	3,396,017	-	
111	ALBANY-EUGENE NO 1 (ML LINN CO)	19,422,179	-	
112	ALBANY-LEBANON NO 1	1,332,448	22,932	
113	ALBENI FALLS-PINE STREET NO 1	375,750	832	
114	ALBENI FALLS-SAND CREEK NO 1	11,966,751	18,301	
115	PIONEER-ALCOA NO 1	36,090	29	
116	ALLSTON-CLATSOP NO 1	3,520,421	21,158	
117	ALLSTON-DRISCOLL NO 1	1,543,552	6,077	
118	ALLSTON-DRISCOLL NO 2	2,778,771	4,911	
119	ALVEY 500/230 KV TIE LINE NO 1	347,565	1,530	
120	ALVEY-FAIRVIEW NO 1	32,615,612	73,708	
121	ALVEY-FAIRVIEW NO 1 (ML COOS CO)	6,146,956	-	
122	ALVEY-FAIRVIEW NO 1 (ML DOUGLAS CO)	19,723,712	-	
123	ALVEY-FAIRVIEW NO 1 (ML LANE CO)	7,942,072	-	
124	ALVEY-LANE NO 1	2,961,305	9,290	
125	ALVEY-MARTIN CREEK NO 1	768,840	4,077	
126	ANACONDA-DIVIDE NO 1	771,030	7,696	
127	ASHE TAP TO MIDWAY-HEW NO 2	83,431	2,742	
128	ASHE-HANFORD NO 1	5,509,091	3,264	
129	ASHE-MARION NO 2	87,675,018	209,307	

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	A	B	C	D
130	ASHE-SLATT NO 1	25,272,636	35,023	
131	ASHE-WHITE BLUFFS NO 1	1,215,881	1,473	
132	BADGER CANYON-REATA NO 1	745,517	1,798	
133	BADGER CANYON-RICHLAND NO 1	697,783	4,232	
134	BAKERS CORNER TAP TO LEXINGTON-LONGVIEW NO 1	260,047	176	
135	BALD MOUNTAIN TAP TO UNDERWOOD TAP	119,704	114	
136	BANDON SUBSTATION TRANSFORMER TIE 1	30,869	399	
137	BANDON-ROGUE NO 1	29,246,772	37,394	
138	BELFAIR TAP TO SHELTON-KITSAP NO 2	1,313	-	
139	BELL-ADDY NO 1	5,039,694	12,979	
140	BELL-ADDY NO 1 ML SPOKANE CO	947,491	-	
141	BELL-ADDY NO 1 ML STEVENS CO	439,089	-	
142	CATTLE CREEK-GOSHEN NO 1	684,132	19,331	
143	BELL-BOUNDARY NO 1	5,679,015	26,310	
144	BELL-BOUNDARY NO 1 (ML PEND OREILLE CO)	510,978	-	
145	BELL-BOUNDARY NO 1 (ML SPOKANE CO)	481,420	-	
146	BELL-BOUNDARY NO 3	29,510,722	72,896	
147	BELLINGHAM-CUSTER NO 1	149,475	1,383	
148	BELL-LANCASTER NO 1	2,431,074	11,477	
149	BELL-TRENTWOOD NO 1	943,197	6,128	
150	BELL-TRENTWOOD NO 2	921,575	3,115	
151	BELL-USK NO 1	1,844,972	6,931	
152	BENTON-451B NO 1	266,152	18,321	
153	BENTON-DOE B3-S4 NO 1 (RET)	155,177	437	
154	BENTON-FRANKLIN NO 1	7,215,789	2,665	
155	BENTON-FRANKLIN NO 2	631,568	9,548	
156	BENTON-OTHELLO NO 1	347,967	825	
157	BENTON-OTHELLO NO 1 (ML BENTON CO)	4,602,662	-	
158	BENTON-SOOTENEY NO 1	996,117	9,126	
159	BENTON-WHITE BLUFFS NO 1	657,771	2,458	
160	BERTELSEN-WILLOW CREEK NO 1	97,254	507	
161	BETTAS ROAD-COLUMBIA NO 1	1,461,011	4,779	
162	BETTAS ROAD-COLUMBIA NO 1 (CHELAN CO)	317,805	-	
163	BETTAS ROAD-COLUMBIA NO 1 (KITITITAS CO)	653,155	-	
164	BIG EDDY-CHEMAWA NO 1	3,481,772	106,190	
165	BIG EDDY-CHENOWETH NO 1	979,921	3,782	
166	BIG EDDY-CHENOWETH NO 2	1,508,706	4,856	
167	BIG EDDY-DE MOSS NO 1	1,108,844	19,562	
168	BIG EDDY-KNIGHT NO 1	33,164,043	6,495	
169	BIG EDDY-KNIGHT NO 1 (ML KICKTAT CO)	67,249,715	-	
170	BIG EDDY-KNIGHT NO 1 (ML WASON CO)	44,132,564	-	
171	BIG EDDY-MCLOUGHLIN 1&2 NO 1	4,965,983	15,876	
172	BIG EDDY-MCLOUGHLIN 1&2 NO 2	1,764,192	6,077	
173	BIG EDDY-OSTRANDER NO 1	10,045,705	12,710	
174	BIG EDDY-OSTRANDER NO 1 (ML CLACKAMAS CO)	1,879,709	-	
175	BIG EDDY-REDMOND NO 1	10,007,990	78,478	
176	BIG EDDY-SPRING CREEK NO 1	3,032,156	19,445	
177	BIG EDDY-THE DALLES FISHWAY HYDRO PLANT	2,955,999	-	
178	BIG EDDY-TROUTDALE NO 1	14,275,678	87,604	
179	BIG EDDY-TROUTDALE NO 1 (MULTNOMAH CO)	1,157,433	-	
180	BLUE RIVER TAP TO COUGAR-HOLDEN CREEK NO 1	58,362	7,964	
181	BOARDMAN TAP TO MCNARY-JONES CANYON NO 1	61,136	219	
182	BOARDMAN-ALKALI NO 1	639,747	7,959	
183	BOARDMAN-IONE NO 1	692,506	7,686	
184	BONNEVILLE PH 1-HOOD RIVER NO 1	7,628,417	29,434	
185	BONNEVILLE PH 1-NORTH CAMAS NO 1	453,835	3,046	
186	BONNEVILLE PH1-ALCOA 1&2 (INACTIVE, SEE NOTES)	7,905	1,092	
187	BONNEVILLE PH1-ALCOA NO 1 & 2 (BONN PH1-ALCOA NO 2 SECTION	2,203,114	1,135	
188	BONNEVILLE PH1-ALCOA NO 1 & 2 (BONN PH1-ALCOA NO 1 SECTION)	77,542	5,980	
189	BOTHELL-SAMMAMISH (PSE) (FOR ACCOUNTING PURPOSES ONLY)	575,499	-	
190	BOTHELL-SNO-KING NO 1	1,579,743	18	
191	BOTHELL-SNO-KING NO 2	1,658,878	193	
192	BOUNDARY-NELWAY 1	401,084	409	
193	BOUNDARY-WANETA 1	117,328	737	
194	BOYER-TILLAMOOK NO 1	11,911,626	21,617	
195	BRASADA-HARNEY NO 1	5,429,472	131,058	
196	BRASADA-HARNEY NO 1 ML DESCHUTES CO	314,072	-	
197	BRASADA-HARNEY NO 1 ML HARNEY CO	82,671	-	

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	A	B	C	D
198	BRONX-SAND CREEK NO 1	2,622,656	1,386	
199	BUCKLEY-GRIZZLY NO 1	7,514,539	10,373	43%
200	BUCKLEY-MARION NO 1	20,351,214	16,594	50%
201	BUCKLEY-MARION NO 1 (ML CLACKAMAS CO)	752,032	-	50%
202	BUCKLEY-MARION NO 1 (ML MARION CO)	322,300	-	50%
203	BURBANK TAP TO FRANKLIN-WALLA WALLA NO 1	2,665	130	
204	CALPINE-MCNARY NO 1	428,117	3,618	
205	CANAL-SECOND LIFT NO 1	25,231	643	
206	CANAL-SECOND LIFT NO 2	19,804	230	
207	CANBY TAP TO MALIN-HILLTOP NO 1	2,362,571	4,042	
208	CARDWELL-COLITZ NO 1 (ML) COWLITZ COUNTY	3,466,905	-	
209	CARDWELL-COWLITZ NO 1	634,286	2,491	
210	CARLTON-MCMINNVILLE NO 1	463,769	398	
211	CARLTON-SHERWOOD NO 1	2,108,150	3,123	
212	CARLTON-TILLAMOOK NO 1	9,280,815	46,783	
213	CARSON TAP TO UNDERWOOD TAP	267,329	1,124	
214	CASCADE LOCKS TAP TO BONNEVILLE PH 1-HOOD RIVER NO 1	108,499	94	
215	CATTLE CREEK-GOSHEN NO 1 ML BINGHAM CO	1,172,194	-	
216	CATTLE CREEK-GOSHEN NO 1 ML BONNEVILLE CO	3,265,460	-	
217	CENTRAL FERRY-LOWER MONUMENTAL NO 1	14,568,222	6,195	
218	CENTRAL FERRY-LOWER MONUMENTAL NO 1 (ML GARFIELD CO)	5,110,684	-	
219	CENTRAL FERRY-LOWER MONUMENTAL NO 1 (ML COLUMBIA CO)	35,181,649	-	
220	CENTRAL FERRY-LOWER MONUMENTAL NO 1 (ML WALLA WALLA CO)	30,591,087	-	
221	CENTRALIA-MAY STREET NO 1	167,108	392	
222	CGS BACKUP BANK TAP TO BENTON - 451B NO 1	107,386	3,464	
223	CGS2 BACKUP TAP TO HANFORD NO 2 CONSTRUCTION TAP	148,476	-	
224	CHALIS-CENTRALIA NO 1 ML LEWIS CO	4,232,257	-	
225	CHEHALIS-CENTRALIA NO 1	1,480,072	4,795	
226	CHEHALIS-CENTRALIA NO 2	1,761,900	11,847	
227	CHEHALIS-CENTRALIA NO 2 ML LEWIS CO	6,316,710	-	
228	CHEHALIS-COVINGTON NO 1	2,516,477	254,744	
229	CHEHALIS-MAYFIELD NO 1	1,979,460	6,831	
230	CHEHALIS-OLYMPIA NO 1	3,863,639	18,654	
231	CHEHALIS-RAYMOND NO 1	15,779,378	32,155	
232	CHEMAWA-SALEM ALUMINA NO 1	324,986	2,642	
233	CHEMAWA-SALEM NO 1	4,818,149	3,232	
234	CHEMAWA-SALEM NO 2	337,015	40,008	
235	CHENOWETH-GOLDENDALE NO 1	2,540,355	12,426	
236	CHIEF JOEPH-SICKLER NO 1 ML DOUGLAS CO	737,581	-	
237	CHIEF JOSEPH-EAST OMAK NO 1	5,148,496	5,408	
238	CHIEF JOSEPH-MONROE NO 1	21,776,416	59,325	
239	CHIEF JOSEPH-MONROE NO 1 ML SNOHOMISH CO	1,954,071	-	
240	CHIEF JOSEPH-SICKLER NO 1	4,620,138	29,820	
241	CHIEF JOSEPH-SNOHOMISH NO 3	9,130,012	55,506	
242	CHIEF JOSEPH-SNOHOMISH NO 4	9,240,347	49,217	
243	CHRISTMAS VALLEY TAP TO BRASADA-HARNEY NO 1 (UNKNOWN)	1,640	-	
244	COLUMBIA FALLS-CONKELLEY NO 1	72,714	1,409	
245	COLUMBIA FALLS-FLATHEAD NO 1	756,209	6,249	
246	COLUMBIA FALLS-KALISPELL NO 1	805,808	6,725	
247	COLUMBIA FALLS-TREGO NO 1	2,017,336	28,159	
248	COLUMBIA-ELLENSBURG NO 1	1,962,585	13,034	
249	COLUMBIA-ELLENSBURG NO 1 ML KITTITAS CO	4,463,967	-	
250	COLUMBIA-GRAND COULEE NO 1	1,417,945	10,284	
251	COLUMBIA-GRAND COULEE NO 3	1,722,738	8,919	
252	COLUMBIA-VALHALLA NO 1	380,752	7,153	
253	COLUMBIA-VALHALLA NO 2	703,606	2,835	
254	COLVILLE-BOUNDARY NO 1	4,912,891	15,307	
255	COLVILLE-REPUBLIC NO 1	7,650,443	35,003	
256	COLVILLE-REPUBLIC NO 1 (ML STEVENS CO)	4,685,362	-	
257	CONNELL TAP TO BENTON-SCOOTENEY NO 1	190,017	1,954	
258	COSMOPOLIS-ABERDEEN NO 1	6,928	216	
259	COUGAR-HOLDEN CREEK NO 1	2,442,582	30,201	79%
260	COVINGTON SUBSTATION TIE NO 2	17,720	3,574	
261	COVINGTON-BETTAS ROAD NO 1	1,716,558	46,662	
262	COVINGTON-CRESTON SCL NO 1	398,640	4,820	
263	COVINGTON-DUWAMISH NO 1	752,610	4,620	
264	COVINGTON-MAPLE VALLEY NO 2	1,129,206	11,400	
265	COVINGTON-WHITE RIVER NO 1	216,902	12,736	

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	A	B	C	D
266	COWLITZ TAP TO CHEHALIS-COVINGTON NO 1	6,019,795	5,624	88%
267	COYOTE SPRINGS-SLATT NO 1	2,352,112	7,554	
268	CRESTON-BELL NO 1	5,845,052	8,791	
269	CRESTON-BELL NO 1 ML LINCOLN CO	14,192,117	-	
270	CRESTON-BELL NO 1 ML SPOKANE CO	8,274,167	-	
271	CRESWELL TAP TO ALVEY-MARTIN CREEK NO 1	92,141	-	
272	CUSTER-INGLEDOW NO 1	7,036,672	5,510	
273	CUSTER-INGLEDOW NO 2	1,768,518	6,334	
274	CUSTER-INTALCO NO 1	497,585	5,333	
275	CUSTER-INTALCO NO 2	531,003	4,037	
276	DAVIS CREEK TAP TO MILE-HI-ALTURAS	208,342	8,553	
277	DE MOSS-FOSSIL NO 1	5,559,275	44,571	
278	DEXTER TAP TO LOOKOUT POINT-ALVEY NO 1	75,069	1,263	
279	DISCOVERY-CHENOWETH NO 1	343,283	1,462	
280	DORENA TAP TO ALVEY-MARTIN CREEK NO. 1	221,415	8,634	
281	DRAIN-ELKTON NO 1	843	-	
282	DRAIN-OAKLAND NO 1	843	-	
283	DRISCOLL TAP TO ALLSTON-CLATSOP NO 1	1,683,694	-	
284	DRISCOLL-ASTORIA NO 1	2,465,769	5,372	
285	DRISCOLL-NASELLE NO 1	4,352,081	19,259	
286	DRISCOLL-WAUNA NO 1	27,438	84	
287	DRUMMOND - MACKS INN NO 1	97,538	70,856	
288	DUTCH CANYON TAP TO ST JOHNS-ST HELENS NO 1	139	-	
289	DWORSHAK PH-OROFINO NO 1	205,764	3,082	
290	DWORSHAK-TAFT NO 1	22,702,069	50,656	
291	EAST ELLENSBURG TAP TO COLUMBIA-ELLENSBURG NO 1	390,200	3,224	
292	EAST ELLENSBURG TAP TO COLUMBIA-ELLENSBURG NO 1 (ML KITTITA	519,029	-	
293	EAST OMAK TAP TO GRAND COULEE-FOSTER CREEK NO 1	5,127,081	3,476	
294	EAST OMAK-OROVILLE NO 1	13,684	4,946	
295	EAST OMAK-TONASKET NO 2	13,691	4,061	
296	ECHO LAKE - MAPLE VALLEY NO 1 & 2 (EL-MV NO 1 SECTION)	5,678,484	14,656	
297	ECHO LAKE - MAPLE VALLEY NO 1 & 2 (EL-MV NO	5,628,393	35,627	
298	ECHO LAKE-MONROE NO 1	4,938,957	24,400	
299	ELBE TAP TO ALDER-LAGRANDE NO 1,2	1,898,624	3,039	
300	ELLENSBURG-MOXEE NO 1	4,566,957	40,114	
301	ELTOPIA TAP TO SMITH CANYON-REDD	437,867	1,430	
302	EUGENE-ALDERWOOD NO 1	3,965,075	15,837	
303	EUGENE-ALVEY NO 2	2,008,913	8,881	
304	EUGENE-BERTELSEN NO 1	259,902	1,201	
305	EUGENE-LANE NO 1	159,386	4,783	
306	FAIRMOUNT-PORT ANGELES NO 1	3,344,639	9,825	
307	FAIRMOUNT-PORT ANGELES NO 2	1,555,367	13,699	
308	FAIRVIEW-BANDON NO 1	2,623,966	37,695	
309	FAIRVIEW-BANDON NO 2	2,228,327	9,574	
310	FAIRVIEW-ROGUE NO 1	6,893,302	45,776	
311	FIDALGO-LOPEZ ISLAND NO 3	1,929,609	488	
312	FIDALGO-LOPEZ ISLAND NO 4	4,794,685	191	
313	FIDALGO-LOPEZ ISLAND NO 5	13,833,755	1,422	
314	FILBERT TAP TO FOREST GROVE-MCMINNVILLE NO 1	290,501	388	
315	FLATHEAD-HOT SPRINGS NO 1	3,257,393	16,089	
316	FORDS PRAIRIE TAP TO CHEHALIS-CENTRALIA NO 2	207,287	1,015	
317	FOREST GROVE-MCMINNVILLE NO 1	2,213,117	9,310	
318	FOREST GROVE-TILLAMOOK NO 1	12,082,331	26,037	
319	FOREST GROVE-TILLAMOOK NO 1 (ML WASHINGTON COUNTY)	6,942,749	-	
320	FOREST GROVE-TILLAMOOK NO 1 (ML TILLAMOOK COUNTY)	17,341,219	-	
321	FOSTER TAP TO GREEN PETER-LEBANON NO 1	276,039	6,538	
322	FRANKLIN-BADGER CANYON NO 1	1,772,974	6,417	
323	FRANKLIN-BADGER CANYON NO 2	2,800,482	11,591	
324	FRANKLIN-HEDGES NO 1	362,800	1,092	
325	FRANKLIN-RUBY STREET NO 1	1,347,949	2,030	
326	FRANKLIN-WALLA WALLA NO 1	6,580,260	12,444	
327	FROMAN TAP TO ALBANY-LEBANON NO 1	592,229	328	
328	GARRISON-ANACONDA NO 1	5,211,339	45,917	
329	GARRISON-TAFT NO 1	86,218,545	131,809	
330	GARRISON-TAFT NO 2	86,218,545	107,107	
331	GLADE TAP TO BENTON-FRANKLIN NO 2	716	1,325	
332	GOSHEN-DRUMMOND NO 1	11,345,516	61,581	
333	GRAND COULEE-BELL NO 3	3,596,021	19,022	

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	A	B	C	D
334	GRAND COULEE-BELL NO 3 (ML GRANT CO)	78,436	-	
335	GRAND COULEE-BELL NO 3 (ML LINCOLN CO)	9,124,913	-	
336	GRAND COULEE-BELL NO 3 (ML SPOKANE CO)	3,400,212	-	
337	GRAND COULEE-BELL NO 5	4,269,127	28,819	
338	GRAND COULEE-BELL NO 6	104,017,288	20,369	
339	GRAND COULEE-CHIEF JOSEPH NO 1	2,762,327	7,582	
340	GRAND COULEE-CHIEF JOSEPH NO 2	2,569,159	9,696	
341	GRAND COULEE-CHIEF JOSEPH NO 3	4,100,432	7,992	
342	GRAND COULEE-CRESTON NO 1	1,574,419	6,556	
343	GRAND COULEE-CRESTON NO 1 (GRANT CO)	1,664,299	-	
344	GRAND COULEE-CRESTON NO 1 (LINCOLN CO)	8,264,385	-	
345	GRAND COULEE-FOSTER CREEK NO 1	1,713,434	13,541	
346	GRAND COULEE-HANFORD NO 1	12,282,324	87,187	
347	GRAND COULEE-OKANOGAN NO 2	2,916,495	25,833	
348	GRAND COULEE-SCHULTZ NO 1	31,696,784	30,284	
349	GRAND COULEE-SCHULTZ NO 2	30,625,010	8,644	
350	GRAND COULEE-WESTSIDE AVA NO 1 (ML LINCOLN CO)	7,446,951	-	
351	GRAND COULEE-WESTSIDE AVA NO 1 (ML SPOKANE CO)	1,708,835	-	
352	GRAND COULEE-WESTSIDE AVA NO 1 (ML GRANT CO)	664,542	-	
353	GRAND COULEE-WESTSIDE(AVA) NO 1	1,994,438	8,068	
354	GRANDE ROND-BOYER NO 1	1,383,030	3,417	
355	GRANDVIEW-RED MOUNTAIN NO 1	3,190,625	11,492	
356	GREEN BLUFF TAP TO BELL-TRENTWOOD NO 2	584,065	2,755	
357	GREEN PETER-LEBANON NO 1	666,893	11,034	65%
358	GRIZZLY-SUMMER LAKE NO 1	14,204,156	14,036	43%
359	GRIZZLY-SUMMER LAKE NO 1 (CROOK CO)	108,228	-	43%
360	GRIZZLY-SUMMER LAKE NO 1 (DESCHUTES CO)	127,891	-	43%
361	GRIZZLY-SUMMER LAKE NO 1 (LAKE CO)	255,806	-	43%
362	HANFORD-WAUTOMA NO 1	3,063,563	2,682	
363	HANFORD-WAUTOMA NO 1, ML BENTON CO	235,126	-	
364	HANFORD-WAUTOMA NO 2	2,601,240	2,233	
365	HANFORD-WAUTOMA NO 2, ML BENTON CO	249,603	-	
366	HARRISBURG TAP TO ALBANY-EUGENE NO 1	15,159	148	
367	HARVALUM-BIG EDDY NO 1	4,359,112	4,200	
368	HARVALUM-BIG EDDY NO 1 (ML WASCO CO)	6,089,225	-	
369	HAT ROCK TAP TO MCNARY-WALLULA	117,346	655	
370	HATTON TAP TO CONNELL TAP	1,087,752	6,551	
371	HATWAI-DWORSHAK NO 1	6,688,529	15,271	
372	HAWKINS-ALVEY NO 1	581,694	3,826	
373	HEBO TAP TO BOYER-TILLAMOOK NO 1	1,872	-	
374	HEDGES TAP TO FRANKLIN-BADGER CANYON NO 2	197,981	238	
375	HEYBURN-ADELAIDE NO 1	3,963,222	8,178	
376	HIDEAWAY TAP TO HAWKINS-ALVEY NO 1	505	484	
377	HILLS CREEK-LOOKOUT POINT NO 1	1,318,347	34,505	81%
378	HILLTOP-WARNER NO 1	4,850,007	2,369	
379	HOLCOMB TAP TO CHEHALIS-RAYMOND NO 1	343,953	209	
380	HOLCOMB-NASELLE NO 1	3,481,823	14,475	
381	HOOD RIVER-THE DALLES NO 1	3,510,869	5,178	
382	HORN BUTTE TAP TO TOWER ROAD-ALKALI NO 1	339,950	83	
383	HORSE HEAVEN-HARVALUM NO 1	773,114	14,486	
384	HORSE RANCH TAP TO MONROE-SNOHOMISH NO 1&2	297,055	-	
385	HOT SPRINGS 500-230KV TIE NO 1	37,012	479	
386	HOT SPRINGS-RATTLESNAKE NO 1	7,029,248	78,795	
387	HUNGRY HORSE-COLUMBIA FALLS NO 1	4,979,851	2,005	
388	HUNGRY HORSE-CONKELLEY NO 1	981,905	2,874	
389	ICE HARBOR-FRANKLIN NO 2	554,825	831	97%
390	ICE HARBOR-FRANKLIN NO 3	1,331,565	823	91%
391	JACKSON TAP TO CANAL-SECOND LIFT NO. 2	54,669	337	
392	JOHN DAY-BIG EDDY NO 2	5,433,041	2,728	
393	JOHN DAY-BIG EDDY NO 2 ML SHERMAN CO	152,151	-	
394	JOHN DAY-BIG EDDY NO 2 ML WASCO CO	152,153	-	
395	JOHN DAY-MARION NO 1	18,300,579	63,979	
396	JONES CANYON-SANTIAM NO 1	5,460,611	54,142	
397	JUNCTION CITY TAP TO ALBANY-EUGENE NO 1	2,182	43	
398	KALISPELL-KERR NO 1	30,943,539	25,229	
399	KEELER-ALLSTON NO 1	5,141,827	15,764	
400	KEELER-FOREST GROVE NO 1	1,647,118	10,329	
401	KEELER-FOREST GROVE NO 1 ML WASINGTON CO	3,281,131	-	

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	A	B	C	D
402	KEELER-FOREST GROVE NO 2	807,711	3,282	
403	KEELER-OREGON CITY NO 2	2,556,350	8,728	
404	KELLER TAP TO GRAND COULEE-OKANOGAN NO 2	5,276,156	11,154	
405	KENNEWICK TAP TO FRANKLIN-BADGER CANYON NO 2	38,892	1,193	
406	KERR BPA-KERR MVP NO 1	51,424	699	
407	KITSAP-BANGOR NO 1	637,130	7,155	
408	KITSAP-STATION X NO 1	297,208	2,272	
409	KLONDIKE SCHOOLHOUSE-JOHN DAY NO 1	9,759,776	1,299	
410	LA PINE-CHILOQUIN NO 1	6,444,977	22,483	
411	LA PINE-FORT ROCK NO 1	6,683,185	10,553	
412	LA PINE-FORT ROCK NO 1 ML DESCHUTES CO	78,561	-	
413	LANCASTER-NOXON NO 1	6,418,605	28,726	
414	LANE-WENDSON NO 1	28,977,945	29,934	
415	LANE-WENDSON NO 2	2,305,561	21,316	
416	LANGLOIS TAP TO BANDON-ROGUE NO 1	26,655	1,447	
417	LATHAM TAP TO ALVEY-MARTIN CREEK NO 1	1,513,988	1,703	
418	LEXINGTON-DELAMETER NO 1 (RETIRED)	10,450	-	
419	LEXINGTON-LONGVIEW NO 1	1,469,382	9,646	
420	LEXINGTON-LONGVIEW NO 2	803,448	4,629	
421	LEXINGTON-LONGVIEW NO 2 (ML COWLITZ CO)	979,286	-	
422	LIBBY-BONNERS FERRY NO 1	27,918,382	103,363	
423	LIBBY-CONKELLEY NO 1	9,863,892	42,131	
424	LITTLE GOOSE-CENTRAL FERRY NO 2	11,183,170	2,767	
425	LITTLE GOOSE-LOWER GRANITE NO 1	8,795,905	21,809	
426	LITTLE GOOSE-LOWER GRANITE NO 2 ML WHITMAN	10,591	-	
427	LITTLE GOOSE-LOWER GRANITE NO 2 ML COLUMBIA	158,860	-	
428	LITTLE GOOSE-LOWER GRANITE NO 2 ML GARFIELD	360,082	-	
429	LONGVIEW-ALLSTON NO 1	333,525	1,431	
430	LONGVIEW-ALLSTON NO 2	69,437	1,210	
431	LONGVIEW-ALLSTON NO 3	2,042,062	2,277	
432	LONGVIEW-ALLSTON NO 4	1,238,208	13,661	
433	LONGVIEW-BAKERS CORNER (COWLITZ PUD LINE)	383,428	36	
434	LONGVIEW-CHEHALIS NO 1 & 3 (LONGVIEW-CHEHALIS NO 1 SECTION)	1,598,526	93,040	
435	LONGVIEW-CHEHALIS NO 1 & 3 (LONGVIEW-CHEHALI	2,362,307	199,727	
436	LONGVIEW-COWLITZ NO 1	597,381	1,534	
437	LONGVIEW-WASHINGTON WAY NO 1	629,897	-	
438	LOOKOUT POINT-ALVEY NO 1	1,024,487	8,619	
439	LOOKOUT POINT-ALVEY NO 2	924,896	5,996	
440	LOST RIVER-SPAR CANYON NO 1	5,548,915	63,219	
441	LOWER GRANITE-HATWAI NO 1	8,692,113	23,435	
442	LOWER GRANITE-HATWAI NO 1 (NEZ PERCE CO)	31,957	-	
443	LOWER GRANITE-HATWAI NO 1 (WHITMAN CO)	28,395	-	
444	LOWER MONUMENTAL-ASHE NO 1	11,094,886	20,401	
445	LOWER MONUMENTAL-HANFORD NO 1	5,699,847	16,885	
446	LOWER MONUMENTAL-HANFORD NO 1 ML BENTON	103,974	-	
447	LOWER MONUMENTAL-HANFORD NO 1 ML FRANKLIN	639,837	-	
448	LOWER MONUMENTAL-HANFORD NO 1 ML GRANT	47,988	-	
449	LOWER MONUMENTAL-HANFORD NO 1 ML WALLA WALLA	7,998	-	
450	LOWER MONUMENTAL-LITTLE GOOSE NO 1	3,144,903	7,767	
451	LOWER MONUMENTAL-LITTLE GOOSE NO 2	3,305,144	4,938	
452	LOWER MONUMENTAL-LITTLE GOOSE NO 1 ML GARFIELD	231,498	-	
453	LOWER MONUMENTAL-LITTLE GOOSE NO 1 ML COLUMB	28,937	-	
454	LOWER MONUMENTAL-LITTLE GOOSE NO 1 ML WHITMA	101,281	-	
455	LOWER MONUMENTAL-LITTLE GOOSE NO 2 (WALLA WALLA CO)	760,467	-	
456	LOWER MONUMENTAL-MCNARY NO 1	8,812,515	24,601	
457	LOWER MONUMENTAL-MCNARY NO 1 ML UMATILLA CO	359,186	-	
458	LOWER MONUMENTAL-MCNARY NO 1 ML WALLA WALLA	2,564,041	-	
459	LYNCH CREEK TAP TO CANYON-LAGRANDE NO 1,2	1,053,417	4,813	
460	MACKS INN-MADISON NO 1	3,855,759	19,958	
461	MALIN-HILLTOP NO 1	7,407,826	34,557	
462	MAPLE VALLEY-DUWAMISH NO 1	204,996	1,457	
463	MAPLE VALLEY-MASSACHUSETTS NO 1	23,317	348	
464	MARION-ALVEY NO 1	6,046,722	15,134	
465	MARION-LANE NO 1	10,952,390	26,824	
466	MARION-SANTIAM NO 1	619,487	670	
467	MARTIN CREEK TAP TO ALVEY-FAIRVIEW NO 1	11,094	261	
468	MARTIN CREEK-DRAIN NO 1	1,348,281	19,146	
469	MAUPIN-TYGH VALLEY NO 1	4,283,115	1,056	

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	A	B	C	D
470	MCCULLOUGH TAP TO COWLITZ-LAGRANDE NO 1,2	459,238	8,720	
471	MCNARY-BADGER CANYON NO 1	2,694,246	8,055	
472	MCNARY-BADGER CANYON NO 1 ML BENTON CO, WA	5,106,907	-	
473	MCNARY-COYOTE SPRINGS NO 1	2,077,323	4,866	
474	MCNARY-FRANKLIN NO 2	2,047,431	12,407	
475	MCNARY-HORSE HEAVEN NO 1	13,284,119	5,904	
476	MCNARY-JOHN DAY NO 2	136,530,983	22,242	
477	MCNARY-JONES CANYON NO 1 (ML UMATILLA CO)	245,286	-	
478	MCNARY-MORROW FLAT NO 1	5,971,604	3,849	
479	MCNARY-MORROW FLAT NO 2	6,738,000	1,975	
480	MCNARY-ROSS NO 1	18,005,328	68,839	
481	MCNARY-ROUNDUP NO 1	1,694,134	13,946	
482	MCNARY-SANTIAM NO 1(OBS/RET, SEE NOTES)	6,147,463	3,314	
483	MIDWAY-BENTON NO 1	3,567,088	31,457	
484	MIDWAY-BENTON NO 1 (ML)	13,270,389	-	
485	MIDWAY-BENTON NO 2	1,944,282	5,025	
486	MIDWAY-GRANDVIEW NO 1	13,737,561	37,595	
487	MIDWAY-MOXEE NO 1	16,537,470	23,745	
488	MIDWAY-POTHOLES NO 1	765,882	11,818	
489	MIDWAY-ROCKY FORD NO 1	1,620,448	25,493	
490	MIDWAY-VANTAGE NO 1	9,948,980	14,473	
491	MILTON TAP TO WALLA WALLA-PENDLETON NO 1	2,196,321	1,452	
492	MINIDOKA PH-UNITY NO 1	2,310,227	49,880	
493	MINIDOKA SUB TAP TO DUFN43	1,099,937	-	
494	MIST TAP TO ALLSTON-DRISCOLL NO 2	9,302	923	
495	MONROE-CUSTER NO 1	25,472,348	48,864	
496	MONROE-CUSTER NO 1 ML SKAGIT CO	365,246	-	
497	MONROE-CUSTER NO 1 ML SNOHOMISH CO	474,819	-	
498	MONROE-CUSTER NO 1 ML WHATCOME CO	377,421	-	
499	MONROE-CUSTER NO 2	14,366,752	42,494	
500	MONROE-NOVELTY HILL NO.1	1,736,161	827	
501	MONROE-SNOHOMISH NO 1 & 2 (MONROE-SNOHOMISH NO 1 SECTION)	402,267	2,054	
502	MONROE-SNOHOMISH NO 1 & 2 (MONROE-SNOHOMISH NO 2 SECTION)	164,312	1,733	
503	MONROE-SNOHOMISH NO 1 & 2 (MONROE-SNOHOMISH NO 1 SECTION) (	1,024,027	-	
504	MORROW FLAT-BOARDMAN NO 1	3,073,848	72	
505	MORROW FLAT-JONES CANYON NO 1	2,648,061	2,394	
506	MOSSYROCK-CHEHALIS NO 1	2,226,704	9,491	
507	MOUNTAIN AVENUE TAP TO (PACIFICORP) ASHLAND-OAK KNOLL	699,915	1,613	
508	MOXEE-ROZA NO 1	23,832	6,088	
509	MT SI-TANNER NO 1	6,308,617	2,298	
510	MT. VERNON TAP TO LOOKOUT POINT-ALVEY NO 2	68,601	1,370	
511	MURRAY-CUSTER NO 1	4,617,482	15,206	
512	NAPAVINE-ALLSTON NO 1	9,028,892	10,180	
513	NAPAVINE-ALLSTON NO 1 ML COLUMBIA CO-DO NOT USE	35,702	-	
514	NAPAVINE-ALLSTON NO 1 ML COWLITZ CO	267,769	-	
515	NAPAVINE-ALLSTON NO 1 ML WASHINGTON CO-DO NOT USE	291,571	-	
516	NASELLE-TARLETT NO 1	3,670,934	24,991	
517	NASELLE-TARLETT NO 2	4,135,129	3,124	
518	NESPELEM TAP TO GRAND COULEE-OKANOGAN	579	-	
519	NINE MILE TAP TO FRANKLIN-WALLA WALLA NO 1	40,788	142	
520	NORTH BONNEVILLE-MIDWAY NO 1	11,220,603	35,917	
521	NORTH BONNEVILLE-ROSS NO 1	2,635,550	13,718	
522	NORTH BONNEVILLE-ROSS NO 2	1,843,674	49,004	
523	NORTH BONNEVILLE-TROUTDALE NO 1	2,888,783	6,300	
524	NORTH BONNEVILLE-TROUTDALE NO 2	3,294,452	5,029	
525	NORTH CAMAS-OAK PARK NO 1	342,615	761	
526	NORTH CAMAS-SIFTON NO 1	357,536	2,636	
527	NORTH MOUNTAIN-SNOHOMISH NO 1	224,683	650	
528	NOXON-HOT SPRINGS NO 1	3,068,101	16,654	
529	NOXON-LIBBY NO 1	3,946,822	24,012	
530	OLYMPIA 500-230 TIE LINE 1 ML THURSTON CO	992,129	-	
531	OLYMPIA-GRAND COULEE NO 1	24,311,564	96,895	
532	OLYMPIA-KITSAP NO 3 (SEE NOTES)	3,550,753	1,892	
533	OLYMPIA-KITSAP NO 3 ML MASON CO(SEE NOTES)	889,265	-	
534	OLYMPIA-KITSAP NO 3 ML THURSTON CO(SEE NOTES)	168,820	-	
535	OLYMPIA-SATSOP NO 2	3,893,068	12,812	
536	OLYMPIA-SATSOP NO 3	4,021,560	2,502	
537	OLYMPIA-SHELTON NO 1	403,134	11,694	

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	A	B	C	D
538	OLYMPIA-SHELTON NO 2	2,252,149	8,403	
539	OLYMPIA-SHELTON NO 3	2,055,537	11,597	
540	OLYMPIA-SHELTON NO 3 ML MASON CO	1,250,399	-	
541	OLYMPIA-SHELTON NO 4	1,943,388	6,160	
542	OLYMPIA-SHELTON NO 4 ML MASON CO	1,250,399	-	
543	OLYMPIA-SHELTON NO 5	292,541	6,182	
544	OLYMPIA-SHELTON NO 5 ML MASON CO	5,617,309	-	
545	OLYMPIA-SHELTON NO 5 ML THURSTON CO	2,938,476	-	
546	OLYMPIA-SOUTH ELMA NO 1	1,251,037	18,263	
547	OLYMPIA-ST CLAIR NO 1	10,977,501	5,134	
548	OREGON CITY-CANBY PGE NO 1	527,790	288	
549	OREGON CITY-CHEMAWA NO 1	35,890	-	
550	OREGON CITY-CHEMAWA NO 2	3,151,712	113,539	
551	OSTRANDER-MCLOUGHLIN NO 1	1,415,214	4,087	
552	OSTRANDER-PEARL NO 1	2,001,443	16,829	
553	OSTRANDER-TROUTDALE NO 1	6,217,653	19,456	
554	OSTRANDER-TROUTDALE NO 1 (ML CLACKACMAS CO)	1,743,312	-	
555	OSTRANDER-TROUTDALE NO 1 (ML MULTNOMAH CO)	1,296,472	-	
556	PALISADES-CATTLE CREEK NO 1	7,643,567	20,255	
557	PALISADES-CATTLE CREEK NO 1 ML BONNEVILLE CO	15,565,180	-	
558	PALISADES-SWAN VALLEY NO 1	10,743,440	29,141	
559	PARKER TAP TO EUGENE-ALDERWOOD NO 1	9,970	145	
560	PAUL D. JOHNSON TAP TO ROSS-VANCOUVER SHIPYARD NO. 1	180,120	-	
561	PAUL-ALLSTON NO 2	9,856,889	24,160	
562	PAUL-NAPAVINE NO 1	1,699,815	2,149	
563	PAUL-OLYMPIA NO 1	3,514,676	7,005	
564	PAUL-SATSOP NO 1	30,139,100	26,616	
565	PEARL-KEELER NO 1	2,197,930	9,390	
566	PEARL-MARION NO 1	4,559,012	18,311	
567	PEARL-MARION NO 1 ML CLACKAMAS CO	295,852	-	
568	PEARL-MARION NO 1 ML MARION CO	899,518	-	
569	PEARL-SHERWOOD NO. 1 & 2 (PEARL-SHERWOOD NO 2 SECTION)	751,728	39	
570	PEARL-SHERWOOD NO. 1 & 2 (PEARL-SHERWOOD NO 1 SECTION)	751,728	1,694	
571	PILOT BUTTE-LA PINE NO 1	3,606,699	17,868	
572	POMEROY TAP TO TUCANNON RIVER-NORTH LEWISTON NO 1	29,550	387	
573	PONDEROSA-PILOT BUTTE NO 1	5,666,359	14,803	
574	PORT ANGELES-SAPPHO NO 1	3,223,923	68,009	
575	POTHOLES-GRAND COULEE NO 1	1,377,363	16,647	
576	POTLATCH TAP TO SHELTON-FAIRMOUNT NO 1	6,824	1,556	
577	POWERLINE TAPS TO DIAMOND HILL-COBURG	81,433	-	
578	PRIEST RIVER TAP TO ALBENI FALLS-SAND CREEK NO 1	343,556	4,023	
579	PROSSER TAP TO GRANDVIEW-RED MOUNTAIN NO 1	720,575	6,414	
580	RADAR TAP (USBR) TO SCOOTENEY TAP	65,675	2,163	
581	RAINBOW VALLEY TAP TO LANE-WENDSON NO 1	495,382	2,298	
582	RALSTON TAP TO EAST COLFAX-LIND	532,216	1,802	
583	RATTLESNAKE-GARRISON NO 1	2,412,966	56,050	
584	RAVER TAP TO SCHULTZ-ECHO LAKE NO 1	922,569	635	
585	RAVER-COVINGTON NO 1	2,978,667	5,142	
586	RAVER-COVINGTON NO 2	1,295,592	6,517	
587	RAVER-ECHO LAKE NO 1	2,190,125	7,571	
588	RAVER-PAUL NO 1	13,549,432	56,017	
589	RAVER-PAUL NO 1 ML KING CO	182,765	-	
590	RAVER-PAUL NO 1 ML LEWIS CO	86,573	-	
591	RAVER-PAUL NO 1 ML PIERCE CO	461,723	-	
592	RAVER-PAUL NO 1 ML THURSTON CO	230,862	-	
593	RAYMOND-COSMOPOLIS NO 1	10,746,393	7,752	
594	RAYMOND-HENKLE ST. NO 1	416,305	3,056	
595	RAYMOND-WILLAPA RIVER NO 1	844,844	5,499	
596	RED MOUNTAIN-RICHLAND NO 1	452,540	2,820	
597	RED MOUNTAIN-WHITE BLUFFS NO 1	1,591,715	5,036	
598	REDMOND SUBSTATION 230/115KV TIE NO 1	315,227	141	
599	REDMOND-BRASADA NO 1	299,750	5,822	
600	REDMOND-PILOT BUTTE NO 1	852,864	18,507	
601	REEDSPORT-FAIRVIEW NO 1	9,199,622	43,683	
602	RESTON-FAIRVIEW NO 2	2,447,020	13,542	
603	RIVERGATE-KEELER NO 1 & 2 (RIVERGATE-KEELER NO 1 SECTION)	512,780	397	
604	RIVERLAND-MIDWAY NO 1	21,591	1,332	
605	ROCK CREEK-JOHN DAY NO 1	6,097,654	2,845	

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	A	B	C	D
606	ROCK CREEK-JOHN DAY NO 1 ML KCLICKITAT CO	120,333	-	
607	ROCK CREEK-JOHN DAY NO 1 ML SHERMAN CO	31,987	-	
608	ROCKY FORD-GRAND COULEE NO 1	1,627,129	5,141	
609	ROCKY REACH-COLUMBIA NO 1	1,231,827	19,584	
610	ROCKY REACH-MAPLE VALLEY NO 1	16,601,625	174,505	
611	ROE'S CORNER TAP TO HEYBURN-ADELAIDE NO 1	1,116,651	2,521	
612	ROGUE-GOLD BEACH NO 1	4,770,447	3,395	
613	ROGUE-GOLD BEACH NO 2	4,840,521	9,264	
614	ROSS-ALCOA NO 2 & 4 (ROSS-ALCOA NO 2 SECTION)	136,560	96	
615	ROSS-ALCOA NO 3	1,252,366	872	
616	ROSS-CARBORUNDUM NO 1	212,703	1,168	
617	ROSS-LEXINGTON NO 1	2,988,768	69,696	
618	ROSS-RIVERGATE NO 1	558,459	2,884	
619	ROSS-ST JOHNS NO 1	1,623,572	3,656	
620	ROSS-VANCOUVER SHIPYARD NO 1	594,667	2,215	
621	ROUNDUP-LAGRANDE NO 1	2,554,662	28,246	
622	SACAJAWEA TAP TO ICE HARBOR-FRANKLIN NO 2	217,457	515	
623	SACAJAWEA TAP TO LOWER MONUMENTAL-MCNARY NO 1	2,175,620	2,797	
624	SACHEEN-ALBENI FALLS NO 1	1,201,168	10,212	
625	SALEM-ALBANY NO 1	25,643,327	10,496	
626	SALEM-ALBANY NO 2	19,366,792	7,264	
627	SALEM-GRAND RONDE NO 1	5,378,440	9,929	
628	SAMMAMISH-MAPLE VALLEY NO 1	1,801,866	-	
629	SAND CREEK-BONNERS FERRY NO 1 & 2(SAND CREEK-BF NO 2 SECTI	6,647,798	3,456	
630	SAND CREEK-BONNERS FERRY NO. 1 & 2 (SAND CREEK-BF NO 1 SECT	6,669,001	14,992	
631	SANTIAM SUBSTATION TRANSF BAY TAP TO SANTIAM-ALBANY NO 1	2,323,017	168	
632	SANTIAM-ALBANY NO 1	984,717	12,279	
633	SANTIAM-ALVEY 1 & 2, S-A 1 SECT	3,339,901	24,574	
634	SANTIAM-ALVEY 1 & 2, S-A 2 SECT	2,987,966	12,297	
635	SANTIAM-BETHEL NO 1	12,617,338	2,103	
636	SANTIAM-CHEMAWA NO 1	1,744,710	7,434	
637	SANTIAM-TOLEDO NO 1	4,445,929	33,359	
638	SANTIAM-TOLEDO NO 1 ML BENTON CO	3,933,508	-	
639	SATSOP PARK-COSMOPOLIS NO 1	1,246,681	10,564	
640	SATSOP-ABERDEEN NO 2	5,398,614	9,538	
641	SATSOP-ABERDEEN NO 3	2,402,175	9,508	
642	SATSOP-SHELTON NO 1 ML MASON CO	5,606,724	-	
643	SATSOP-SHELTON NO 1 ML THURSTON CO	2,938,508	-	
644	SCHRAG TAP TO RUFF-WARDEN	765,888	1,918	
645	SCHULTZ-ECHO LAKE NO 1	65,603,696	33,877	
646	SCHULTZ-RAVER NO 1	29,718,735	29,209	
647	SCHULTZ-RAVER NO 3	10,273,142	35,864	
648	SCHULTZ-RAVER NO 4	11,338,901	37,261	
649	SCHULTZ-WAUTOMA NO 1	95,466,530	55,352	
650	SCOOTENEY TAP TO MIDWAY-BENTON NO 1	377,939	11,073	
651	SCOOTENEY TAP TO MIDWAY-BENTON NO 1 (ML BENTON CO)	769,558	-	
652	SHELTON-FAIRMOUNT NO 1	5,381,297	62,899	
653	SHELTON-FAIRMOUNT NO 1 (JEFFERSON CO)	448,528	-	
654	SHELTON-FAIRMOUNT NO 1 (MASON CO)	184,111	-	
655	SHELTON-FAIRMOUNT NO 2	3,796,964	19,819	
656	SHELTON-FAIRMOUNT NO 3	3,179,420	14,270	
657	SHELTON-FAIRMOUNT NO 4	2,926,202	15,773	
658	SHELTON-KITSAP NO 2	9,743,861	7,842	
659	SHELTON-KITSAP NO 3	181,839	8,982	
660	SHELTON-KITSAP NO 3 (MASON CO)	222,316	-	
661	SHELTON-KITSAP NO 4	4,172,674	8,668	
662	SHELTON-SOUTH BREMERTON NO 1	9,302,539	2,285	
663	SHULTZ-RAVER NO 4 ML KING CO	190,718	-	
664	SHULTZ-RAVER NO 4 ML KITTITAS CO	515,646	-	
665	SICKLER-SCHULTZ NO 1	11,145,747	7,510	
666	SICKLER-SCHULTZ NO 1 ML CHELAN COUNTY	144,841	-	
667	SICKLER-SCHULTZ NO 1 ML DOUGLAS COUNTY	214,363	-	
668	SICKLER-SCHULTZ NO 1 ML KITTITAS COUNTY	220,155	-	
669	SIFTON TAP TO N. BONN-ROSS 2	222,180	72	
670	SIFTON TAP TO NORTH BONNEVILLE-ROSS NO 1	222,180	417	
671	SIFTON-AST NO 1	55,704	1,381	
672	SIFTON-LACAMAS NO 1	354	398	
673	SIFTON-ROSS NO 1	356,952	3,899	

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	A	B	C	D
674	SILVERADO TAP TO PORT ANGELES-SAPPHO NO 1	458,627	2,307	
675	SLATT-BUCKLEY NO 1	21,181,550	14,525	
676	SLATT-JOHN DAY NO 1	4,358,495	29,048	
677	SLATT-JOHN DAY NO 1 ML GILLIAM CO	251,354	-	93%
678	SLATT-JOHN DAY NO 1 ML SHERMAN CO	187,309	-	93%
679	SNOHOMISH-BEVERLY PARK NO 3	484,991	1,164	
680	SNOHOMISH-BEVERLY PARK NO 4	526,538	1,427	
681	SNOHOMISH-BOTHELL NO 1	793,184	8,414	
682	SNOHOMISH-BOTHELL NO 2	148,752	1,346	
683	SNOHOMISH-EVERETT	579,766	5,709	
684	SNOHOMISH-MURRAY NO 1	599,384	5,466	
685	SNOHOMISH-PUD NO 9	4,154,080	638	
686	SNOHOMISH-PUD NO. 8	2,377,231	620	
687	SNO-KING TAP TO ECHO LAKE-MONROE NO 1	5,042,814	20,042	
688	SNO-KING-MAPLE VALLEY NO 1	1,845,243	760	
689	SNO-KING-MAPLE VALLEY NO. 2	651,009	190	
690	SOUTH ELMA-SATSOP PARK NO 1	260,092	7,701	
691	SOUTH FORK TAP TO FOREST GROVE-TILLAMOOK NO 1	9,989	-	
692	SOUTH TACOMA-SOUTHWEST NO 1	1,675,134	7,710	
693	SOUTH TACOMA-WHITE RIVER NO 1	339,175	7,152	
694	SPAR CANYON - ROUND VALLEY	2,279,742	9,250	
695	SPEARFISH TAP TO CHENOWETH-GOLDENDALE NO 1	1,539,494	1,926	
696	SPIRIT TAP TO COLVILLE-BOUNDARY NO 1	928,401	3,287	
697	SPRING CREEK-WINE COUNTRY NO 1	3,850,516	13,296	
698	ST HELENS-ALLSTON NO 1	5,750,334	13,879	
699	ST JOHNS TAP TO KEELER-OREGON CITY NO 2	2,120	-	
700	ST JOHNS-KEELER NO 2	1,015,240	2,018	
701	ST JOHNS-ST HELENS NO 1	2,318,752	9,502	
702	SWAN VALLEY-GOSHEN NO 1	4,307,957	22,186	
703	SWAN VALLEY-TETON NO 1	3,328,159	22,646	
704	SWAN VALLEY-TETON NO 2	20,108,821	18,598	
705	SWIFT TAP TO ROSS-LEXINGTON NO 1	17,434	738	
706	T3BA'DAS TAP TO SHELTON-FAIRMONT NO 2 (MASON COUNTY PUD NO	423,156	-	
707	TACOMA-COVINGTON NO 2	1,907,335	7,434	
708	TACOMA-COVINGTON NO 3	1,240,294	7,172	
709	TACOMA-COVINGTON NO 4	1,240,294	6,058	
710	TACOMA-RAVER NO 1&2 (NO 1 SECTION)	4,567,297	12,815	
711	TACOMA-RAVER NO 1&2 (NO 2 SECTION)	2,332,326	10,820	
712	TAFT-BELL NO 1	84,342,970	49,765	
713	TAFT-HOT SPRINGS NO 1	12,282,621	92,234	
714	TAHKENITCH-GARDINER NO 1	692,879	3,843	
715	TAHKENITCH-REEDSPORT NO 1	727,604	10,802	
716	TARGHEE TAP TO SWAN VALLEY-TETON NO 1	962,039	45,148	
717	TARGHEE-DRUMMOND NO 1	114,986	70,874	
718	THATCHER JUNCTION TAP TO FOREST GROVE-TILLAMOOK NO 1	1,689	-	
719	THE DALLES-DISCOVERY NO 1	221,839	9,846	
720	THURSTON-MCKENZIE NO 1	2,435,522	2,908	
721	TILLAMOOK-TRASK RIVER NO 1	358,808	87	
722	TIMBER TAP (UNKNOWN)	29,500	-	
723	TIMBER TAP TO FOREST GROVE-TILLAMOOK NO 1	3,062,519	14,852	
724	TOLEDO-WENDSON NO 1	5,931,612	39,749	
725	TOWER ROAD-ALKALI NO 1(NOT A VALID LINE SEE BOARDMAN-ALKALI	430,310	1,457	
726	TRENTWOOD-VALLEY WAY NO 1	394,377	2,687	
727	TROJAN-ALLSTON NO 1	1,595,833	2,339	
728	TROJAN-ALLSTON NO 2	1,584,040	1,045	
729	TUCANNON RIVER-NORTH LEWISTON NO 1	11,818,725	16,091	
730	UNDERWOOD TAP TO BONN-NC 1 & BONN-A 2, BONN-ALCOA TO STR 1	748,295	11,089	
731	UNDERWOOD TAP TO BONN-NC 1 & BONN-A 2, BONN-NC 1 TO UNDRW S	791,603	7,682	
732	UNITY-HEYBURN NO 1	560,894	5,125	
733	UNITY-WEST BURLEY NO 1	1,931,734	4,190	
734	USK-BOUNDARY NO 1	2,107,798	11,398	
735	VANTAGE-COLUMBIA NO 1	1,207,066	25,790	
736	VANTAGE-HANFORD NO 1	30,549	7,511	
737	VANTAGE-HANFORD NO 1 ML BENTON CO	399,903	-	
738	VANTAGE-HANFORD NO 1 ML GRANT CO	8,161	-	
739	VANTAGE-SCHULTZ NO 1	5,194,512	12,440	
740	VANTAGE-SCHULTZ NO 1 ML KITTAS	42,824	-	
741	VERA TAP TO TRENTWOOD-VALLEY WAY NO 1	1,905,555	1,479	

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	A	B	C	D
742	VICTOR TAP TO TARGHEE TAP	96,996	174	
743	WAGNER LAKE TAP TO WILBUR TAP	441,963	3,402	
744	WALLA WALLA-FREEWATER	1,331,932	1,736	
745	WALLA WALLA-PENDLETON NO 1	4,403,076	13,644	
746	WALLA WALLA-TUCANNAN RIVER NO 1 ML WALLA WALLA CO	8,158,757	-	
747	WALLA WALLA-TUCANNON RIVER NO 1	5,535,869	18,346	
748	WALLA WALLA-TUCANNON RIVER NO 1 ML COLUMBIA CO	7,659,312	-	
749	WAUNA-DRISCOLL NO 1	22,614	207	
750	WAUTOMA-KNIGHT NO 1	40,686,048	49,285	
751	WAUTOMA-OSTRANDER NO 1 ML KLINKITAT CO	428,957	-	
752	WAUTOMA-OSTRANDER NO 1 ML SKAMANIA CO	584,941	-	
753	WAUTOMA-OSTRANDER NO 1 ML YAKIMA CO	2,546,675	-	
754	WAUTOMA-ROCK CREEK NO 1	8,615,764	23,683	
755	WAUTOMA-ROCK CREEK NO 1 ML BENTON CO	94,912	-	
756	WAUTOMA-ROCK CREEK NO 1 ML KLINKITAT CO	322,701	-	
757	WAUTOMA-ROCK CREEK NO 1 ML YAKIMA CO	531,508	-	
758	WENDSON-TAHKENITCH NO 1	4,284,624	15,949	
759	WENDSON-TAHKENITCH NO 2	2,980,101	19,005	
760	WEST BURLEY-HEYBURN NO. 1 (FOREIGN OWNED, SEE NOTES)	21,218	5,079	
761	WESTSIDE (AVA)-BELL NO 1	187,683	360	
762	WESTSIDE AVA-BELL NO 1 (SPOKANE CO)	877,408	-	
763	WHITE BLUFFS-451B NO 1	1,025,555	601	
764	WHITE BLUFFS-RICHLAND NO 1	1,722,924	3,714	
765	WILLOW CREEK-HAWKINS #1	492,033	492	
766	WINE COUNTRY-MIDWAY NO 1	2,763,766	4,936	
767	WINTHROP TAP TO TWISP-OKANOGAN	859,367	8,006	
768	WNP1-ASHE NO 2	76,075	3,661	
769	Boardman-Ione Transmission Line	221,420	-	
770	Grouse Creek-Tecoma Transmission Lines & Substation	1,919,106	-	94%
771	Maupin-Antelope Transmission Lines & Substation	617,493	-	
772	Antelope-Fossil Transmission Lines & Substation	16,642,388	-	
773	Targhee-Mack's Inn Transmission Lines & Substations	431,497	-	
774	ROSS-ALCOA 2&4 (ROSS-ALCOA NO 1 SECTION)	32,915	-	
775	KNIGHT-OSTRANDER NO 1	2,225,355	-	
776	BIG EDDY-QUENETT CREEK NO 1	721,965	-	
777	BIG EDDY-QUENETT CREEK NO 2	721,965	-	
778	QUENETT CREEK-CHENOWETH NO 2	56,194	-	
779	Subtotal Lines	3,304,896,541	8,184,046	
	Stations	Investment (\$)	O&M (\$)	Multi %
780	ABERDEEN SUBSTATION	6,878,681	175,643	
781	ACTON SUBSTATION	197,084	17,201	82%
782	ADAIR SUBSTATION(BPA)	814,402	22,764	
783	ADDY SUBSTATION	10,523,347	102,802	90%
784	ALBANY SUBSTATION	14,281,668	139,195	88%
785	ALCOA SUBSTATION	9,479,422	226,115	95%
786	ALDERWOOD SUBSTATION	93,977	467,531	
787	ALFALFA SUBSTATION	4,713,041	35,269	
788	ALBENI FALLS SUBSTATION	1,096,932	17,647	75%
789	ALKALI SUBSTATION	61,692	284	
790	ALLSTON SUBSTATION	53,668,437	368,126	
791	ALVEY SUBSTATION	61,635,915	292,206	88%
792	ANACONDA SUBSTATION	6,792,193	43,139	
793	ANGUS SUBSTATION (BENTON CO PUD)	124,041	1,072	
794	ARCO SUBSTATION(UTAH POWER & LIGHT)	32,413	2,573	
795	ARMSTRONG SUBSTATION(INLAND POWER & LIGHT)	8,286	475	
796	ASHE SUBSTATION	42,294,790	523,574	92%
797	ATHOL SUBSTATION(KOOTENAI ELEC COOP)	51,772	447	
798	BADGER CANYON SUBSTATION	6,163,451	47,671	
799	BANDON SUBSTATION	4,471,249	71,203	84%
800	BAXTER SUBSTATION(SOLD, SEE NOTES))	15,519	1,064	
801	BEAVER SUBSTATION(TILLAMOOK PUD)	61,093	1,799	
802	BENTON CITY SUBSTATION(BENTON CO PUD)	15,267	710	
803	BELFAIR SUBSTATION(MASON CO PUD NO 3)	80,394	805	
804	BELLINGHAM SUBSTATION(BPA)	13,713,527	488,930	
805	BELL SUBSTATION	89,559,475	1,477,204	
806	BENTON SUBSTATION	11,100,799	110,099	
807	BENSON SUBSTATION	79,650	1,022	

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	A	B	C	D
808	BEVERLY PARK SUBSTATION	86,702	964	
809	BIGELOW SUBSTATION (INLAND)	63,065	725	
810	BIG EDDY SUBSTATION	17,088,346	99,558	19%
811	BIG PASCO	13,215	387	
812	BINGEN SUBSTATION(KLICKITAT CO PUD)	82,229	1,853	
813	BUCKLEY SUBSTATION	3,984,880	73,216	36%
814	BLACKROCK SUBSTATION	102,477	1,141	
815	BLUE RIVER SUBSTATION (LANE ELECTRIC)	52,879	383	
816	BALD MOUNTAIN SUBSTATION	4,426,584	48,014	
817	BANGOR SUBSTATION	67,321	1,342	
818	BOARDMAN SUBSTATION	7,897,030	105,360	
819	BONNERS FERRY SUBSTATION	2,265,147	49,297	78%
820	BOUNDARY SUBSTATION	7,827,888	118,635	
821	BOYER SWITCHING STATION	21,947	4,355	
822	HUGHS SUBSTATION(SALEM ELEC COOP)	85,091	544	
823	BRINCKEN'S CORNER SUBSTATION	995,467	16,464	
824	BRIDGE SUBSTATION	5,343,831	59,711	
825	BROOKDALE SUBSTATION(TACOMA PUBLIC UTILITIES)	43,391	-	
826	BURBANK SUBSTATION	706,630	11,795	84%
827	BURLEY SUBSTATION(CITY OF BURLEY)	85,500	635	
828	BURNT WOODS SUBSTATION	753,476	7,893	56%
829	CANBY SUBSTATION(BPA)	7,141,864	35,138	
830	CASCADE LOCKS SUBSTATION	397,538	18,954	61%
831	CARDWELL SUBSTATION	3,071,967	75,687	
832	CARLTON SUBSTATION	6,294,326	84,305	
833	CARSON SUBSTATION	2,593	1,765	
834	CATHLAMET SUBSTATION	101,018	1,404	
835	CENTRALIA SUBSTATION	1,680,624	30,479	
836	CHEMICAL SUBSTATION	127,756	-	
837	CHEHALIS SUBSTATION	21,142,141	372,772	
838	CHELATCHIE SUBSTATION	17,442	313	
839	CHEMAWA SUBSTATION	20,631,628	422,733	
840	CHENOWETH SUBSTATION	18,162,040	71,154	
841	CHESHIRE SUBSTATION (EPUD)	152,044	776	
842	CHENEY SUBSTATION	2,410	418	
843	CHIEF JOSEPH SUBSTATION	33,108,693	359,595	72%
844	CHALLIS SUBSTATION	65,343	-	
845	CHEWELAH SUBSTATION	26,994	695	
846	CEDARVILLE JUNCTION SUBSTATION	1,048,421	34,969	
847	CLARKSTON SUBSTATION	532,252	20,257	
848	CLARK SUB (UNKNOWN)	21,851	-	
849	CLATSKANIE SWITCHING STATION (CLATSKANIE PUD)	12,340	766	
850	CLATSOP SUBSTATION	4,321,463	119,503	
851	CANAL SUBSTATION	2,778,060	34,862	
852	CENTRALIA SWITCHING STATION	176,972	9,677	
853	COLUMBIA FALLS SUBSTATION -- 115 YARD	3,528,764	111,070	
854	CONKELLEY SUBSTATION	9,445,626	129,242	
855	COLLINS SUBSTATION	18,228	261	
856	COLUMBIA SUBSTATION	34,316,904	225,872	
857	COLVILLE SUBSTATION	4,151,056	70,293	
858	CONNELL SUBSTATION	746,801	7,907	
859	CORVALLIS SUBSTATION	14,452	337	
860	COSMOPOLIS SUBSTATION	1,492,402	77,410	
861	COVINGTON SUBSTATION	63,384,578	945,384	
862	COWLITZ SUBSTATION	3,142,448	53,585	
863	COWLITZ SUBSTATION(TACOMA PUBLIC UTILITIES)	368,188	1,190	
864	CAPE HORN SUBSTATION	28,175	1,696	
865	CRESTON SUBSTATION(BPA)	1,579,537	34,127	
866	COYOTE SPRINGS SUBSTATION	4,532,741	36,968	
867	CURLEW SUBSTATION	10,717	872	
868	CUSICK SUBSTATION	1,919,063	34,226	
869	CUSTER SUBSTATION	47,167,971	719,971	
870	DAYTON SUBSTATION(BPA & COLUMBIA REA)	103,536	1,209	
871	DUTCH CANYON SUBSTATION	15,947	558	
872	DE MOSS SUBSTATION(BPA)	12,550,101	69,963	
873	DEER PARK SUBSTATION	461,637	12,958	
874	DEXTER SUBSTATION (LANE ELECTRIC)	85,302	426	
875	DILLON-SALMON SUBSTATION	110,343	573	

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

	A	B	C	D
876	DIXIE SUBSTATION	405,202	9,625	55%
877	DIXON SUBSTATION	1,689,040	50,080	
878	DORENA SUBSTATION	465,856	13,782	
879	DRAIN SUBSTATION	3,032,451	33,580	90%
880	DRISCOLL SUBSTATION	6,846,549	82,470	
881	DRUMMOND MONTANA SUBSTATION	4,352	-	
882	DRUMMOND SUBSTATION	23,993,864	157,863	
883	DUCKABUSH SUBSTATION	35,879	1,851	
884	DWORSHAK SUBSTATION	21,089,672	150,820	82%
885	EAST ELLENSBURG SUBSTATION(CITY OF ELLENSBURG)	143,040	267	
886	EAST PINE SUBSTATION	19,963	-	
887	ECHO LAKE SUBSTATION	35,125,455	145,730	
888	EAST HILLS SUBSTATION	443,470	21,600	
889	ELLENSBURG SUBSTATION	6,979,467	84,263	
890	ELMA SUBSTATION	686,902	57,412	
891	ELMO SUBSTATION(MVP)	48,586	480	
892	ELMAR SUBSTATION	33,016	274	
893	ELTOPIA SUBSTATION(SOLD)	24,590	232	
894	EAST OMAK SUBSTATION	6,154,719	61,005	
895	EUGENE SUBSTATION	6,533,220	111,961	
896	EUREKA SUBSTATION (LINCOLN ELEC)	37,497	906	
897	FAIRMOUNT SUBSTATION	21,144,563	163,294	
898	FAIRVIEW SUBSTATION(BPA)	13,427,938	203,927	
899	FERN RIDGE SUBSTATION (LANE ELECTRIC)	16,530	863	
900	FIDALGO SUBSTATION	6,022,402	66,844	
901	FILBERT SUBSTATION(CITY OF FOREST GROVE)	15,622	1,309	
902	FIRST LIFT SUBSTATION	28,131	-	
903	FISHERS ROAD SUBSTATION	6,861	-	
904	FLATHEAD SUBSTATION(BPA & FLATHEAD ELEC)	6,441,764	49,860	
905	FLORENCE SUBSTATION (CENTRAL LINCLON PUD)	17,351	227	
906	FOUR LAKES SUBSTATION	15,712	2,549	
907	FOREST GROVE SUBSTATION	5,314,036	88,989	
908	FOSSIL SUBSTATION	10,066,015	55,470	
909	FOSTER CREEK SUBSTATION(NESPELEM VALLEY ELEC)	56,093	2,461	
910	FRANKLIN SUBSTATION	14,509,959	329,575	88%
911	FREEWATER SUBSTATION(BPA)	1,878,452	16,127	
912	FROMAN SUBSTATION	10,025	384	
913	FRENCHTOWN SUBSTATION (SOLD)	24,770	236	
914	FORT ROCK SUBSTATION (MIDSTATE ELECTRIC COOP)	281,818	-	
915	GARDINER SUBSTATION	608,586	20,012	66%
916	GARIBALDI SUBSTATION(TILLAMOOK PUD)	350,237	354	
917	GARRISON SUBSTATION	60,902,565	573,955	69%
918	GEISEL MONUMENT SUBSTATION	37,685	182	
919	GILMER SUBSTATION(KLICKITAT CO PUD)	22,235	625	
920	GLADE SUBSTATION	290,287	6,509	45%
921	GOLD BEACH SUBSTATION	129,528	5,923	
922	GOSHEN SUBSTATION(PACIFICORP)	2,432,709	-	
923	GOLDENDALE SUBSTATION(BPA)	1,280,313	23,654	
924	GOOSE LAKE SUBSTATION(NESPELEM VALLEY ELEC)	6,433	579	
925	GOSHEN SUBSTATION(UTAH POWER & LIGHT)	7,213,162	59,334	
926	GRANDVIEW SUBSTATION	9,510,176	91,208	
927	GRAYS RIVER SUBSTATION	61,344	4,173	
928	GRAND COULEE SUBSTATION	2,048,415	2,300	
929	GRANTS DALE SUBSTATION	5,648	877	
930	GREEN VALLEY SUBSTATION	2,734,025	22,176	
931	GRANGEVILLE SUBSTATION	1,434	-	
932	WILLARD JOHNSON SUBSTATION(HOOD RIVER ELEC)	90,662	591	
933	HAYFORD SUBSTATION(INLAND POWER & LIGHT)	14,000	314	
934	HALF MOON SUBSTATION(INLAND POWER & LIGHT)	20,346	511	
935	HAMPTON SUBSTATION	73,268	722	
936	HANFORD SUBSTATION	26,798,448	209,757	
937	HAPPY VALLEY SUBSTATION	4,265,415	50,871	
938	HARRISBURG SUBSTATION	4,893,940	22,787	96%
939	HARNEY SUBSTATION(BPA)	7,845,007	103,651	
940	HASKILL SUBSTATION	35,947	1,923	
941	HATTON SUBSTATION(SOLD)	21,007	653	
942	HAUSER SUBSTATION(BPA)	249,348	12,914	
943	HAY MILL SUBSTATION (UNITED ELEC & CITY OF RUPERT)	269,929	17,046	

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

	A	B	C	D
944	HEYBURN SUBSTATION	12,101,150	93,571	
945	HEBO SUBSTATION	389,712	17,028	
946	HEDGES SUBSTATION(BENTON CO PUD)	14,917	734	
947	HIDEAWAY SUBSTATION (LANE ELECTRIC)	10,025	96	
948	HIGHLANDS SUBSTATION(BENTON CO PUD)	13,750	441	
949	HILLTOP SUBSTATION	1,907,532	40,620	
950	HOLCOMB SUBSTATION	676,239	27,664	
951	HORSE HEAVEN SUBSTATION	5,485,689	52,828	
952	HOOD RIVER SUBSTATION	1,572,938	47,164	74%
953	HOT SPRINGS SUBSTATION	19,062,513	468,566	
954	HARVALUM SUBSTATION	3,666,796	84,509	
955	H2F SUBSTATION	23,867	650	
956	HAT ROCK SUBSTATION	9,571,417	32,448	
957	HATWAI SUBSTATION	16,368,739	309,069	
958	IDAHOME SUBSTATION	1,595,994	41,920	
959	INTALCO SUBSTATION	12,648,560	271,508	64%
960	IONE SUBSTATION	819,297	18,035	86%
961	IRBY SUBSTATION	339,768	7,447	
962	IRRIGRO SUBSTATION	4,436	-	
963	JOHN DAY SUBSTATION	22,735,734	287,860	44%
964	JUNCTION CITY SUBSTATION(BLACHLY-LANE CO ELEC COOP)	5,106	677	
965	KALISPELL SUBSTATION(BPA)	13,010,488	145,621	
966	KEELER SUBSTATION	114,634,196	1,016,068	
967	KELLER SUBSTATION	829,723	11,939	
968	KENNEWICK SUBSTATION(BENTON CO PUD)	23,070	609	
969	KERR SUBSTATION(BPA)	1,788,275	16,553	
970	KETTLE FALLS SUBSTATION	5,249	292	
971	KITSAP SUBSTATION	14,827,947	199,846	
972	LA GRANDE SUBSTATION	7,995,899	82,564	
973	LANCASTER SUBSTATION(BPA)	1,361,783	58,285	
974	LANE SUBSTATION	24,231,037	258,451	
975	LANGLOIS SUBSTATION	423,551	13,802	68%
976	LA PINE SUBSTATION	22,431,188	100,559	
977	LEBANON SUBSTATION	3,701,597	30,958	
978	LEVEY SUBSTATION	2,283,427	13,700	
979	LEXINGTON SUBSTATION	10,573,754	163,213	
980	LAGOON SUBSTATION	22,101	476	
981	LIBBY SUBSTATION(BPA/FLATHEADELEC)	674,984	11,124	
982	LIBBY SUBSTATION(BPA)	7,060,560	189,635	69%
983	LITTLE GOOSE SUBSTATION	68,074,878	157,456	80%
984	LION MOUNTAIN SUBSTATION	66,581	950	
985	LOOKOUT POINT SUBSTATION	3,329,786	21,720	75%
986	LOWER GRANITE SUBSTATION	11,420,010	113,832	75%
987	LOWER MONUMENTAL SUBSTATION	36,261,844	257,603	87%
988	LOLO SUBSTATION (NWE)	16,060	3,112	
989	LONGVIEW SUBSTATION	39,026,538	385,530	
990	LONE PINE SUBSTATION(PACIFICORP)	26,796	-	
991	LOOKINGGLASS SUBSTATION(BPA)	329,093	4,310	
992	LOPEZ ISLAND SUBSTATION(BPA)	7,377,942	64,067	
993	LARENE SUBSTATION (INLAND)	440	248	
994	LOST RIVER SUBSTATION	1,851,841	70,555	
995	LYNCH CREEK SUBSTATION	726,128	10,653	57%
996	MACKAY SUBSTATION	198,886	3,315	
997	MADISON SUBSTATION	1,571,635	36,439	
998	MAYFIELD POWERHOUSE	3,167	-	
999	MAPLETON SUBSTATION	933,517	32,258	86%
1000	MARION SUBSTATION	39,440,179	418,992	92%
1001	MASON SUBSTATION(MASON CO PUDNO 3)	56,492	1,194	
1002	MABTON SUBSTATION	1,352,795	15,752	
1003	MCKENZIE SUBSTATION(EWEB)	31,684	2,738	
1004	MCLOUGHLIN SUBSTATION	316,731	7,360	
1005	MCMINNVILLE SUBSTATION	2,054,611	75,870	
1006	MCNARY SUBSTATION	117,482,137	591,503	91%
1007	METALINE FALLS SUBSTATION(PEND OREILLE CO PUD)	14,425	188	
1008	MESA SUBSTATION(SOLD, SEE NOTES)	91,656	1,762	
1009	MINICO SUBSTATION (UNITED ELECTRIC)	12,493	7,753	
1010	MIDWAY SUBSTATION(BPA)	42,985,449	362,778	
1011	MILTON SUBSTATION(CITY OF MILTON FREEWATER)	141,908	9,860	

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A		B	C	D
1012	MINIDOKA SUBSTATION	139,342	3,886	36%
1013	MILL PLAIN SUBSTATION	3,331	-	
1014	MARTIN CREEK SUBSTATION	7,844,254	38,941	
1015	MOUNTAIN HOME SUBSTATION(IDAHO POWER)	67,338	8,651	
1016	MOHLER SUBSTATION(TILLAMOOK PUD)	29,278	551	
1017	MONROE SUBSTATION	68,308,512	617,388	
1018	MONMOUTH SUBSTATION	1,308,756	36,074	58%
1019	MAUPIN SUBSTATION	2,143,010	77,045	
1020	MORRISON SUBSTATION	17,456	-	
1021	MOSSYROCK SWITCHYARD	129,517	2,620	
1022	MOXEE SUBSTATION	6,505,292	57,420	
1023	MOYIE SUBSTATION	34,974	1,746	
1024	MAPLE VALLEY SUBSTATION	74,146,915	722,125	
1025	MOUNTAIN AVENUE SUBSTATION	1,649,673	27,134	78%
1026	MOUNTAIN VIEW SUBSTATION(MASON CO PUD NO 3)	29,452	549	
1027	MURRAY SUBSTATION	10,360,885	114,798	
1028	MT. VERNON SUBSTATION(SPRINGFIELD UTILITY BOARD)	7,307	128	
1029	NASELLE SUBSTATION	4,482,656	69,976	
1030	NORTH BENCH SUBSTATION	303,427	2,657	41%
1031	NORTH BONNEVILLE SUBSTATION	10,829,835	162,777	69%
1032	NORTH BROOKINGS SUBSTATION	439,706	8,137	
1033	NORTH BUTTE SUBSTATION	110,484	6,872	56%
1034	NEWCOMB SUBSTATION(SOLD)	28,362	923	
1035	NEWPORT SUBSTATION(INLAND POWER)	260,047	1,947	
1036	NORTH LEWISTON SUBSTATION	20,900	281	
1037	NOXON DAM POWERHOUSE	50,959	-	
1038	NOXON CONSTRUCTION SUBSTATION	207,354	1,502	
1039	NARROWS SUBSTATION	96,416	3,825	
1040	OAKRIDGE SUBSTATION (LANE ELECTRIC)	156,911	3,509	
1041	ODESSA SUBSTATION	818,532	17,517	
1042	OLINDA SUBSTATION	357,021	396	
1043	OLYMPIA SUBSTATION	39,235,069	736,289	
1044	OREGON CITY SUBSTATION	7,338,776	162,229	
1045	OSTRANDER SUBSTATION	55,507,993	447,335	
1046	OVANDO SUBSTATION	2,079,001	27,280	
1047	PARKDALE SUBSTATION	1,071,795	22,376	71%
1048	PASCO SUBSTATION	97,900	1,029	
1049	PATERSON SUBSTATION	19,705	1,352	
1050	PAUL SUBSTATION	41,265,091	249,795	
1051	PE ELL SUBSTATIONLEWIS CO PUD)	16,913	664	
1052	PENDLETON SUBSTATION	43,283	19,241	
1053	PEARL SUBSTATION	60,374,332	182,447	
1054	PINE HOLLOW SUBSTATION	9,950	1,486	
1055	PORT ANGELES SUBSTATION(BPA)	21,141,288	298,554	
1056	POMEROY SUBSTATION(BPA)	4,464,214	32,652	
1057	PONDEROSA SUBSTATION(BPA)	56,229,976	172,737	
1058	PORT ORFORD SUBSTATION	296,514	21,681	63%
1059	POTHOLES SUBSTATION	3,154,093	77,696	
1060	POTLATCH SUBSTATION(BPA)	1,006,926	29,668	89%
1061	PRAIRIE SUBSTATION(WWP & KOOTENAI ELEC COOP)	15,691	430	
1062	PROSSER SUBSTATION(BENTON CO PUD)	43,065	1,176	
1063	PRIEST RIVER SUBSTATION(BPA)	825,642	20,498	
1064	SUBSTATION H	624,485	-	
1065	QUINCY SUBSTATION	16,867	698	
1066	RAFT SUBSTATION	2,177	1,180	
1067	RALSTON SUBSTATION(SOLD)	5,604	1,191	
1068	RAINBOW VALLEY SUBSTATION (LANE ELECTRIC)	51,807	313	
1069	RAVER SUBSTATION	63,443,328	574,961	
1070	RAYMOND SUBSTATION	3,111,901	71,283	
1071	REDMOND SUBSTATION(BPA)	40,746,817	198,746	
1072	REATA SUBSTATION(BENTON CO PUD)	50,929	364	
1073	REEDSPORT SUBSTATION (BPA)	3,472,631	90,249	94%
1074	REPUBLIC SUBSTATION	537,888	30,321	
1075	RESTON SUBSTATION	964,689	23,946	
1076	RICHLAND SUBSTATION	2,831,853	97,382	
1077	RINGOLD SUBSTATION	425,799	12,630	74%
1078	ROCKY REACH SUBSTATION	4,309,789	10,067	
1079	ROE'S CORNER SUBSTATION	38,236	780	

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

	A	B	C	D
1080	ROGUE SUBSTATION	27,267,641	276,953	
1081	ROUNDUP SUBSTATION	5,508,819	125,696	
1082	ROZA SUBSTATION	3,368	-	
1083	ROSS SUBSTATION	20,258,514	575,191	
1084	RIVERTON SUBSTATION(CITY OF HEYBURN)	22,577	3,608	
1085	ROUND VALLEY SUBSTATION	3,412,422	33,426	
1086	SALEM ALUMINA SUBSTATION(SALEM ELEC COOP)	18,224	1,890	
1087	SACAJAWEA SUBSTATION	25,105,927	73,805	99%
1088	SACHEEN SUBSTATION	3,479,879	62,847	
1089	SAND DUNES SUBSTATION	3,510,776	-	
1090	SAGEHILL SUBSTATION	1,506	512	
1091	SALEM SUBSTATION (SALEM ELEC & BPA)	9,691,277	104,349	
1092	SAMUELS SUBSTATION	42,869	7,639	
1093	SANDPOINT SUBSTATION(BPA)	1,106,305	17,739	85%
1094	SANTIAM SUBSTATION	27,026,603	289,325	98%
1095	SAPPHO SUBSTATION	8,846,913	87,945	
1096	SATSOP SUBSTATION(BPA)	26,694,971	241,509	
1097	SCARCELLO SUBSTATION (KOOTENAI ELECTRIC)	10,025	309	
1098	SICKLER SUBSTATION	13,057,002	423,195	
1099	SCOOTENEY SUBSTATION	1,636,721	35,257	92%
1100	SAND CREEK SUBSTATION	5,930,617	45,583	
1101	SELLE SUBSTATION	233,060	2,905	31%
1102	SHELTON SUBSTATION	29,373,759	193,750	
1103	SCHULTZ SUBSTATION	67,291,554	340,472	
1104	SILVER BOW SUBSTATION	1,761,612	18,528	
1105	SILVER CREEK SUBSTATION	3,548,011	54,649	
1106	SIFTON SUBSTATION	6,235,194	204,129	
1107	SLATT SUBSTATION	82,112,492	386,888	96%
1108	SULLIVAN SUBSTATION(VERA WATER & POWER)	5,684	256	
1109	SNIPES SUBSTATION	90,899	1,625	
1110	SNOHOMISH SUBSTATION	61,631,045	450,549	
1111	SNO-KING SUBSTATION	43,779,209	241,668	
1112	TRASK RIVER SUBSTATION	19,987	208	
1113	SOUTH SUBSTATION (SEATTLE CITY LIGHT)	62,772	-	
1114	SPAR CANYON SUBSTATION	703,741	58,784	
1115	SPEARFISH SUBSTATION(KLICKITAT CO PUD)	35,741	341	
1116	SPRINGFIELD SUBSTATION(SPRINGFIELD UTILITY BOARD)	23,401	-	
1117	SPRINGHILL SUBSTATIONINLAND POWER & LIGHT)	23,544	463	
1118	SOUTH TACOMA SUBSTATION	5,009,083	68,660	
1119	STEVENS DRIVE SUBSTATION(CITY OF RICHLAND)	51,835	577	
1120	STEVENSON SUBSTATION	25,896	1,193	
1121	STEVENSVILLE SUBSTATION	2,086	550	
1122	STEILACOOM SUBSTATION	754,305	10,868	69%
1123	ST. JOHNS SUBSTATION	10,778,178	135,932	
1124	STILLWATER SUBSTATION(LINCOLNELECTRIC COOP)	37,172	263	
1125	SURPRISE LAKE SUBSTATION	604,747	13,998	80%
1126	SUMMER LAKE SUBSTATION	2,939,477	48,549	43%
1127	SWAN VALLEY SUBSTATION	12,515,351	76,868	98%
1128	TACOMA SUBSTATION	22,548,405	310,225	99%
1129	TAYLOR FLATS SUBSTATION	53,710	921	
1130	TAFT SUBSTATION	39,334,143	772,075	
1131	TAHKENITCH SUBSTATION	7,488,415	83,289	
1132	TANNER SUBSTATION	62,121	-	
1133	TARGHEE SUBSTATION	7,690,254	60,778	
1134	TARKIO SUBSTATION (SOLD)	3,886	289	
1135	THE DALLES SUBSTATION	2,452,085	62,782	
1136	TIDE FLATS SUBSTATION	(1,389)	-	
1137	TETON SUBSTATION	11,262,261	69,667	
1138	THAYER DRIVE SUBSTATION(CITY OF RICHLAND)	85,951	1,597	
1139	THATCHER JUNCTION SUBSTATION	37,440	-	
1140	TILLAMOOK SUBSTATION	8,927,268	138,661	
1141	TIMBER SUBSTATION	1,022,152	20,464	
1142	TWO MILE ROAD SUBSTATION	1,107,811	12,699	71%
1143	TINCUP SUBSTATION	559,127	23,870	
1144	TOLEDO SUBSTATION	14,653,720	149,311	
1145	TRUMBULL CREEK SUBSTATION	51,518	2,563	
1146	TREGO SUBSTATION(LINCOLN ELECTRIC COOP)	588,787	12,221	
1147	TRENTWOOD SUBSTATION	5,747,904	101,071	81%

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	A	B	C	D
1148	TROUTDALE SUBSTATION(BPA)	40,639,148	270,136	
1149	TROY SUBSTATION	685,866	25,091	63%
1150	TUMBLE CREEK SUBSTATION	974,480	17,107	72%
1151	TYGH VALLEY SUBSTATION (WASCO ELEC. COOP)	27,349	3,540	
1152	UNDERWOOD SUBSTATION	85,372	1,620	
1153	UNITY SUBSTATION(BPA)	1,563,076	62,849	
1154	USK SUBSTATION(BPA)	978,207	42,086	
1155	VALHALLA SUBSTATION	4,829,020	87,809	94%
1156	VANTAGE SUBSTATION	46,783,054	342,098	
1157	VICTOR SUBSTATION (RAVALLI COUNTY ELEC COOP)	6,943	282	
1158	VERA SUBSTATION (VERA W&P, INLAND P&L)	21,431	2,019	
1159	VANCOUVER SHIPYARD SUBSTATION	26,421	-	
1160	WALNUT CITY SUBSTATION(CITY OF MCMINNVILLE)	28,886	151	
1161	WAGNER LAKE SUBSTATION	543,101	12,595	
1162	WALLA WALLA SUBSTATION(PACIFICORP)	224,061	-	
1163	WALTON SUBSTATION	213,497	5,804	38%
1164	WARREN SUBSTATION	631,207	41,841	
1165	WALLA WALLA SUBSTATION(BPA)	11,297,000	139,745	
1166	WEST BURLEY SUBSTATION(UNITED ELEC COOP)	156,561	5,709	
1167	WOODLAND SWITCHING STATION	644,045	477	
1168	WENDSON SUBSTATION	6,828,264	134,870	
1169	WESTSIDE SUBSTATION(BPA)	6,749,386	32,111	
1170	WHITE BLUFFS SUBSTATION	11,743,332	118,019	
1171	WINTHROP SUBSTATION	1,349,024	18,078	88%
1172	WINDISHAR SUBSTATION	32,018	2,130	
1173	WHITE SWAN SUBSTATION(BENTON REA)	10,025	740	
1174	WINCHESTER SUBSTATION	3,851	936	
1175	WREN SUBSTATION	1,656,489	57,933	
1176	WARNER SUBSTATION	4,739,166	66,547	
1177	YAAK SUBSTATION	393,779	2,681	18%
1178	CALPINE SUBSTATION	313,432	14,451	
1179	COLUMBIA FALLS SUBSTATION - 230 KV YARD	14,968,358	41,186	
1180	BEAVER SUBSTATION (PGE)	44,542	4,087	
1181	SUBSTATION X	1,189,600	32,820	
1182	RED MOUNTAIN SUBSTATION	4,491,285	47,251	
1183	NAPAVINE SUBSTATION	2,157,986	68,581	
1184	NINE MILE SUBSTATION (FPLE)	42,950	11,501	
1185	WESTCOTT SUBSTATION (CANBY ELECTRIC)	6,150	184	
1186	EE CLOUSE SUBSTATION (KCLICKITAT PUD)	111,290	6,013	
1187	WAUTOMA SUBSTATION	36,152,026	155,048	
1188	GRAYS HARBOR FACILITY NO 1 (GRAYS HARBOR ENE	61,265	11,278	
1189	RUBY STREET SUBSTATION (FRANKLIN CO PUD)	61,727	1,172	
1190	NINE CANYON SUBSTATION (BENTON PUD)	87,961	14,182	
1191	SATSOP PARK SUBSTATION (GHPUD)	176,327	4,556	
1192	MINT FARM SWITCHING STATION	141,323	6,237	
1193	LAKESIDE SUBSTATION (FEC)	22,744	513	
1194	KENNEDY SUBSTATION	162,287	1,390	
1195	EGYPT SUBSTATION	29,691	151	
1196	TARGHEE TAP SWITCHING STATION	317,710	11,197	
1197	TUCANNON RIVER SUBSTATION	9,275,412	66,824	
1198	BIG FORK SUBSTATION (FEC) (UNKNOWN)	6,087	-	
1199	HOPKINS RIDGE SUBSTATION	30,813	1,432	
1200	JONES CANYON SUBSTATION	17,982,759	66,472	
1201	KLONDIKE SCHOOLHOUSE SUBSTATION(BPA)	382,745	-	
1202	SPRING CREEK SUBSTATION	9,698,204	55,847	
1203	BIG HORN SUBSTATION (IBERDOLA)	19,558	2,634	
1204	DISCOVERY SUBSTATION (N. WASCO PUD)	214,087	7,715	
1205	WILSON RIVER SUBSTATION	46,669	524	
1206	ROCK CREEK SUBSTATION	43,236,359	107,152	
1207	SOUTH SLOPE SUBSTATION	31,283	338	
1208	KLONDIKE SCHOOLHOUSE SUBSTATION (IBERDOLA)	29,337	6,284	
1209	BIGLOW CANYON SUBSTATION	61,573	3,529	
1210	RIVER ROAD GENERATION PLANT SUBSTATION	354,664	4,300	
1211	JOHNS PRAIRIE SUBSTATION	36,662	450	
1212	SETTERS SUBSTATION	18,961	229	
1213	LOWER WOODCHUCK SUBSTATION	34,740	483	
1214	BRASADA SUBSTATION (CENTRAL ELECTRIC COOPERATIVE)	492,476	28,050	
1215	LINDEN SUBSTATION (KPUD)	10,273	-	

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	A	B	C	D
1216	IMRIE SUBSTATION (PACW)	141,675	6,757	
1217	WILLIS SUBSTATION (KPUD)	299,688	10,602	
1218	ENERGIZER SUBSTATION (KPUD)	280,354	8,368	
1219	WHITE CREEK SUBSTATION (KPUD)	322,275	10,908	
1220	ZEPHYR HEIGHTS SUBSTATION	46,512	451	
1221	SPALDING SUBSTATION	51,421	950	
1222	WINE COUNTRY SUBSTATION	6,429,376	30,116	
1223	PATU SUBSTATION	6,177	563	
1224	UNDERWOOD TAP AUTO-SECTIONALIZING STATION	698,308	3,327	
1225	PACIFIC SUBSTATION	39,385	936	
1226	BLANTON ROAD SUBSTATION	22,796	667	
1227	NORTH POWDER SUBSTATION (UNKNOWN)	4,392	-	
1228	RATTLESNAKE ROAD SUBSTATION (HORIZON WIND)	16,318	-	
1229	HORN BUTTE SUBSTATION (INVENERGY WIND)	208,873	15,913	
1230	RIMROCK LAKE SUBSTATION (BENTON REA)	30,789	378	
1231	HAY CANYON SUBSTATION (IBERDOLA)	130,483	6,716	
1232	JOHN DAY SUBSTATION - 230 YARD	28,799,481	67,117	
1233	PEBBLE SPRINGS SUBSTATION (IBERDOLA)	193,916	-	
1234	SMITHSON SUBSTATION (KITITITAS CO PUD)	29,513	258	
1235	COMBINE HILLS II SUBSTATION (EURUS EGY)	47,138	10,429	
1236	CENTRAL FERRY SUBSTATION	21,201,557	152,291	
1237	BLAKESLEE JUNCTION SWITCHING STATION	1,082,385	189	
1238	SHEPHERDS CENTRAL SUBSTATION	129,764	6,227	
1239	SHEPHERDS FLAT SUBSTATION (CAITHNESS SF)	63,847	-	
1240	BETTAS ROAD SUBSTATION	5,183,108	34,027	
1241	CATTLE CREEK SWITCHING STATION	6,330,977	36,174	
1242	DOOLEY SUBSTATION (WINDY POINT)	283,314	7,957	
1243	NORTH PORT SUBSTATION (CCL)	25,067	585	
1244	HARVEST WIND SUBSTATION (KPUD)	259,283	6,805	
1245	WHEAT FIELD SUBSTATION (WFWPP) WALLULA GENERATING PLANT	10,273	-	
1246	KNIGHT SUBSTATION	56,518,774	60,465	
1247	SHEPERDS NORTH SUBSTATION	95,361	6,039	
1248	SHEPERDS SOUTH SUBSTATION	101,677	7,183	
1249	JUNIPER CANYON I SUBSTATION (IR INC.)	126,791	8,609	
1250	MASHEL PRAIRIE SUBSTATION (OHOP)	131,931	1,913	
1251	GORMLEY SUBSTATION (MCMINNVILLE W & L)	47,378	232	
1252	RIVERBEND LANDFILL GENERATING PLANT (WM LLC)	10,273	2,106	
1253	DODGE JUNCTION SUBSTATION (PSE)	113,610	5,723	
1254	SILVERADO SUBSTATION (CLALLAM CO. PUD)	119,823	919	
1255	COASTAL ENERGY GENERATING PLANT	10,371	1,175	
1256	OUTBACK SOLAR GENERATING PLANT (OUTBACK SOLAR, LLC)	14,510	1,136	
1257	ACORD SUBSTATION (BENTON REA) (UNKNOWN)	22,142	256	
1258	DAY MT. SPOKANE	17,108	1,928	
1259	WOODSIDE SUBSTATION (RAVALLI CO ELEC COOP)	17,660	204	
1260	JULIA STREET (KOOTENAI ELECTRIC COOPERATVIE)	26,666	458	
1261	KNIGHTS BRIDGE (CANBY UTILITY BOARD)	32,888	200	
1262	BECK ROAD SUBSTATION	20,710	263	
1263	T3BA'DAS SUBSTATION (MASON COUNTY PUD NO 1)	41,693	531	
1264	WAHKIAKUM SUBSTATION	271,249	645	
1265	TOPPENISH SUBSTATION (YAKIMA POWER)	42,761	-	
1266	MORROW FLAT	33,686,447	41,749	
1267	HELENA AVENUE SUBSTATION	45,693	166	
1268	WORDEN SUBSTATION (COLUMBIA RURAL ELECTRIC ASSOCIATION)	39,940	188	
1269	LILLIWAUP HYDRO GENERATING PLANT (UNKNOWN)	29,845	2,359	
1270	AIRPORT SUBSTATION (CONSUMER'S POWER, INC)	307,505	361	
1271	QUENETT CREEK SUBSTATION	40,671,995	-	
1272	HOLDEN CREEK (EWEB)	62,400	-	
1273	LESLIE ROAD SUBSTATION (BENTON PUD 1)	65,583	-	
1274	PORT WESTWARD (PGE)	613,632	-	
1275	TWISP SUBSTATION	66,883	-	
1276	AFTON COGENERATION POWER PLANT	8,654	-	
1277	AIRWAY HEIGHTS SUBSTATION	27,894	295	
1278	READ SUBSTATION	63,682	-	
1279	ALDER METERING POINT	27,765	88	
1280	ALTURAS SUBSTATION	21,364	382	
1281	AMES LAKE SUBSTATION	30,075	1,517	
1282	ANTELOPE SUBSTATION(WASCO ELECTRIC)	24,432	266	
1283	APPLEWAY SUBSTATION	18,816	12	

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	A	B	C	D
1284	ARCO SUBSTATION(LOST RIVER ELECTRIC)	242,476	-	
1285	ARIEL SUBSTATION	35,332	640	
1286	COCHRANE SUBSTATION	72,108	244	
1287	ARTONDALE SUBSTATION	88,106	1,500	
1288	AHSAHKA SUBSTATION	22,139	13,029	
1289	ASHLAND SUBSTATION	85,217	194	
1290	AUSTIN SWITCHYARD	13,635	849	
1291	BANNACK SUBSTATION	147,707	765	
1292	BARRETTS SUBSTATION(VIGILANTEELECTRIC)	28,520	-	
1293	BURBANK #2 METERING POINT	10,340	-	
1294	BOOTH BEND SUBSTATION	54,322	1,082	
1295	BEACON SUBSTATION	1,931	-	
1296	BERRIAN SUBSTATION	25,904	422	
1297	BERTELSEN SUBSTATION	58,605	176	
1298	BETHEL SUBSTATION	12,410	332	
1299	BROOKDALE SUBSTATION(ELMHURSTMUTUAL PWR & LIGHT)	82,392	1,478	
1300	BLAINE SUBSTATION	128,593	416	
1301	BONNER SUBSTATION	107,496	1,801	
1302	BELLINGHAM SUBSTATION(PUGET SOUND ENERGY)	2,432	-	
1303	BRIDGEPORT BAR (PUMP)	8,356	-	
1304	BROADVIEW SUBSTATION	123,479	1,359	
1305	BREWSTER SUBSTATION	36,031	388	
1306	BREMERTON SUBSTATION (PSE)	57,828	620	
1307	BRIDGEPORT BAR (BOOST)	7,651	1,288	
1308	BERRYDALE SUBSTATION (CLP)	36,801	591	
1309	BURBANK #3 METERING POINT	9,282	-	
1310	BOX CANYON POWERHOUSE	56,157	384	
1311	CABINET GORGE SUBSTATION	107,250	712	
1312	COEUR D'ALENE 15TH STREET SUBSTATION	37,103	785	
1313	CANBY SUBSTATION(PGE)	28,591	535	
1314	CARMEN POWERHOUSE	31,287	182	
1315	CASCADE STEEL SUBSTATION	87,356	2,839	
1316	COLUMBIA CREST SUBSTATION	68,221	759	
1317	CEDARVILLE CITY SUBSTATION	22,896	-	
1318	GRAND COULEE #2 METERING POINT	10,705	553	
1319	CHERRY CREEK SUBSTATION	8,426	1,477	
1320	CHEVRON SUBSTATION	34,271	505	
1321	CHRISTMAS VALLEY SUBSTATION	36,342	2,699	
1322	CLAYTON SUBSTATION	28,441	1,631	
1323	COLD CREEK SUBSTATION	134,981	933	
1324	CLINTON SUBSTATION (SOLD)	5,411	462	
1325	CANBY SUBSTATION(SURPRISE VALLEY ELEC)	84,531	3,263	
1326	COFFIN BUTTE GENERATING PLANT	10,273	1,153	
1327	COLLINS LAKE SUBSTATION	15,858	-	
1328	CONDON SUBSTATION	41,086	607	
1329	AUVIL FRUIT COMPANY METERING POINT	22,761	-	
1330	CRAIGMONT SUBSTATION	56,390	496	
1331	CARLIN SUBSTATION	7,918	292	
1332	CARLSON SUBSTATION	29,249	-	
1333	CRESWELL SUBSTATION	85,010	1,082	
1334	CENTRALIA THERMAL POWERHOUSE	15,230	1,868	
1335	COWLITZ FALLS POWERHOUSE	72,665	2,428	
1336	COTTONWOOD METERING POINT(BPA)	54,681	335	
1337	DARBY SUBSTATION	39,236	1,238	
1338	DAVIS CREEK SUBSTATION	73,632	1,194	14%
1339	DISCOVERY BAY SUBSTATION	54,874	254	
1340	DECLO METERING POINT	43,494	1,835	
1341	DELL SUBSTATION	30,156	1,370	
1342	DELIGHT SUBSTATION	34,597	717	
1343	DROP PLANT PUMPING PLANT	8,779	-	
1344	DILLARD SUBSTATION	17,335	274	
1345	DILLON SUBSTATION	28,985	1,148	
1346	DIVIDE SUBSTATION	22,748	46	
1347	DELENA SUBSTATION	60,981	998	
1348	DOE 251W SUBSTATION	93,614	415	
1349	DOE 451B SUBSTATION	21,042	895	
1350	DONALD NYS SUBSTATION	9,822	-	
1351	DOWER SUBSTATION	1,570	340	

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1352 DAYTON SUBSTATION(MASON COUNTY)	42,516	1,501	
1353 EAST COLFAX SUBSTATION	95,156	991	
1354 ELTOPIA BRANCH CANAL POWERHOUSE	14,336	260	
1355 EAST BENCH SUBSTATION	29,447	1,074	
1356 EMERGENCY OPERATING FACILITY	44,194	2,875	
1357 EAST FOSSIL SUBSTATION	50,617	363	
1358 EAST GREENACRES #2 METERING POINT	7,420	-	
1359 EAST GREENACRES #3 METERING POINT	8,778	-	
1360 EAST GREENACRES #1 METERING POINT	9,045	-	
1361 ELBE SUBSTATION	27,620	2,680	
1362 ELM STREET SUBSTATION	14,496	486	
1363 ELY SUBSTATION	35,905	426	
1364 EIGHT MILE CREEK METERING POINT (UNKNOWN)	229,192	-	
1365 ENDERSBY SUBSTATION	9,311	235	
1366 ENTERPRISE SUBSTATION	21,193	686	
1367 EAGLE POINT METERING POINT	23,907	-	
1368 EVERGREEN PUMP STATION	24,923	526	
1369 EWAN SUBSTATION	8,238	-	
1370 FAIRCHILD AIR FORCE BASE NORTH SUBSTATION	25,055	685	
1371 FAIRCHILD AIR FORCE BASE SOUTH SUBSTATION	34,734	552	
1372 FERNDAL SUBSTATION	17,315	253	
1373 FAIRFIELD SUBSTATION	22,634	-	
1374 FORDS PRAIRIE SUBSTATION(LEWIS CO PUD)	25,993	954	
1375 FORDS PRAIRIE SUBSTATION(CITYOF CENTRALIA)	38,555	1,147	
1376 FOSTER WELLS SUBSTATION	67,001	709	
1377 FRENCHMAN HILLS SUBSTATION	14,788	512	
1378 FERN HILL SUBSTATION	13,666	392	
1379 FRENCHMAN SPRINGS SUBSTATION	19,285	643	
1380 FIRST STREET SUBSTATION	237,510	577	
1381 FRANZ HOLMES SUBSTATION	152,954	1,135	
1382 FOSTER CREEK SUBSTATIONDOUGLAS CO PUD)	33,214	-	
1383 GATES OF THE MOUNTAINS METERING POINT	7,949	1,059	
1384 GIG HARBOR SUBSTATION	59,167	1,423	
1385 GLASGOW SUBSTATION	30,939	515	
1386 GLENOMA SUBSTATION	52,158	895	
1387 GLENWOOD SUBSTATION	40,067	993	
1388 GEM STATE HYDRO PLANT	10,421	-	
1389 GOBLE SUBSTATION	29,349	644	
1390 GOLD BAR SUBSTATION	20,053	337	
1391 GEORGIA PACIFIC SUBSTATION(PSE)	69,838	-	
1392 GROUSE CREEK METERING POINT	13,002	319	
1393 GRAND RONDE SUBSTATION	31,005	689	
1394 GREENTIMBER SUBSTATION	37,716	1,532	
1395 GUM STREET SUBSTATION	20,554	278	
1396 HAAKENSEN SUBSTATION	106,056	3,269	
1397 HAGEN SUBSTATION	48,927	504	
1398 HAWKINS SUBSTATION	9,475	124	
1399 HANNA SUBSTATION(DOUGLAS CO PUD)	5,942	-	
1400 HOODOO SUBSTATION	9,803	231	
1401 HEGLAR SUBSTATION	34,766	1,890	
1402 HEIMARK METERING POINT	37,535	334	
1403 HILTON LAKE SUBSTATION	28,003	409	
1404 HINES SUBSTATION	32,533	2,268	
1405 HOPE VALLEY METERING POINT	13,403	434	
1406 HORN RAPIDS SUBSTATION	30,595	453	
1407 HAUSER SUBSTATION(CENTRAL LINCOLN PUD)	27,964	-	
1408 HASKINS METERING POINT	7,710	473	
1409 IDAHO FALLS SUBSTATION	2,983	1,674	
1410 JOHN DAY CONSTRUCTION SUBSTATION	38,025	564	
1411 JENKINS SUBSTATION	183,601	2,718	
1412 JERICHO PUMPING PLANT	36,866	851	
1413 JIM CREEK SUBSTATION	20,733	1,515	
1414 JIGGS-LEE METERING POINT	22,773	292	
1415 ROY L ZIMMERMAN SUBSTATION	45,535	517	
1416 JOHN CURTIS SUBSTATION	76,330	1,602	
1417 JONES SUBSTATION	5,407	199	
1418 JULIAETTA SUBSTATION	11,005	792	
1419 KAH-NEE-TA SUBSTATION	53,561	951	

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1420	KAMIAH SUBSTATION	19,894	579	
1421	KELTON SUBSTATION	21,825	496	
1422	HEPPNER GENERATING STATION	27,447	4	
1423	KLONDIKE SUBSTATION	99,532	981	
1424	KNAPPA SVENSEN SUBSTATION	2,188	1,082	
1425	KOOSKIA SUBSTATION	21,459	432	
1426	LAGRANDE POWERHOUSE	18,997	-	
1427	MILLER SUBSTATION(LAKEVIEW LIGHT & PWR)	123,121	2,304	
1428	LATHAM SUBSTATION	89,194	898	
1429	LATERAL 4 METERING POINT	42,935	591	
1430	LAKE BAY SUBSTATION	7,193	1,337	
1431	LOWER BULB GENERATING PLANT	16,027	-	
1432	LEWIS & CLARK SUBSTATION	7,015	-	
1433	LOW GAP METERING POINT	11,133	1,080	
1434	LAKE GROVE SUBSTATION	62,954	1,327	
1435	LAKESIDE SUBSTATION (CLP)	21,534	192	
1436	LAKEVIEW SUBSTATION	71,364	760	
1437	LAKE LENORE #2 IRRIGATION PUMP	12,736	464	
1438	LAKE LENORE #1 IRRIGATION PUMP	12,122	800	
1439	LODHOLM SUBSTATION	59,434	816	
1440	LOCUST SUBSTATION	32,812	162	
1441	LUMP GULCH SUBSTATION	20,312	1,260	
1442	LUHR BEACH SUBSTATION	58,733	197	
1443	LYLE SUBSTATION	48,978	625	
1444	MARENGO SUBSTATION	28,220	527	
1445	MAYFIELD SWITCHYARD	202,128	2,575	
1446	MCCULLOUGH SUBSTATION	29,139	1,678	
1447	MILAN SUBSTATION	27,672	708	
1448	MIST SUBSTATION	50,488	1,191	
1449	MACKS INN SUBSTATION	478,114	53,339	
1450	VALLEY SUBSTATION(RAFT RIVER ELEC COOP)	23,392	1,756	
1451	MOAB SUBSTATION	27,824	1,065	
1452	MOSSYROCK SUBSTATION	17,122	-	
1453	MISSION SUBSTATION	4,255	744	
1454	MT. HALL SUBSTATION	15,208	611	
1455	MUDDY RANCH SUBSTATION	51,201	1,160	
1456	NORTH BEND SUBSTATION	39,582	387	
1457	NECANICUM SUBSTATION	155,809	5,320	46%
1458	NOXON SWITCHYARD	3,248	1,128	
1459	NORTH PASCO SUBSTATION	59,484	270	
1460	NEFF ROAD METERING POINT	46,637	3,675	
1461	NOTI CREEK SUBSTATION	114,195	2,342	
1462	OAK KNOLL SUBSTATION	70,494	659	
1463	O'GARA SUBSTATION	1,305	377	
1464	OHOP SUBSTATION	61,175	2,724	
1465	OKANOGAN SUBSTATION	198,191	1,385	
1466	OLD LOWER GENERATING PLANT	7,514	-	
1467	OLNEY METERING POINT	35,014	374	
1468	OLYMPIC PIPELINE	12,580	595	
1469	OMAK SUBSTATION	138,563	714	
1470	OPHIR SUBSTATION	11,385	-	
1471	OPPORTUNITY SUBSTATION	15,961	390	
1472	OREMET SUBSTATION	31,352	326	
1473	OTHELLO SUBSTATION	69,527	-	
1474	PACKWOOD SUBSTATION	59,119	-	
1475	PACKWOOD POWERHOUSE	21,911	749	
1476	POTHOLES EAST CANAL GENERATING PLANT	14,299	31	
1477	PHILLIPS SUBSTATION	51,248	663	
1478	PIHL ROAD METERING POINT	12,687	355	
1479	POPCORN HILL METERING POINT	22,116	-	
1480	PIKE METERING POINT	46,084	322	
1481	PIONEER SUBSTATION	79,600	-	
1482	PILOT ROCK SUBSTATION	203,406	894	
1483	PLEASANT HILL SUBSTATION	25,938	462	
1484	PLUMMER SUBSTATION	55,840	471	
1485	PARKLAND SUBSTATION	20,439	-	
1486	PLEASANT VIEW SUBSTATION	6,044	785	
1487	PLYMOUTH SUBSTATION	41,633	1,121	

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1488	PENDERGAST SUBSTATION	5,409	196	
1489	POINT OF ROCKS SUBSTATION	47,044	852	
1490	POTLATCH SUBSTATION(AVISTA)	34,912	431	
1491	PRIEST RIVER SUBSTATION(AVISTA)	30,389	200	
1492	SUBSTATION FG	621,106	2,497	
1493	PORT ANGELES SUBSTATION(ITT RAYONIER)	465,014	-	
1494	PATEROS SUBSTATION	11,455	-	
1495	PORT TOWNSEND SUBSTATION	106,937	4,192	
1496	EAST SUBSTATION	4,388	-	
1497	PURDY SUBSTATION	59,163	1,026	
1498	PATTON VALLEY METERING POINT	17,235	299	
1499	POWERLINE SUBSTATION	72,846	390	
1500	PYRAMID SUBSTATION	26,868	953	
1501	QUILCENE SUBSTATION	25,406	493	
1502	RADAR PUMPING PLANT	13,763	705	
1503	RAINIER SUBSTATION	146,713	960	
1504	RANDLE SUBSTATION	32,099	-	
1505	RATHDRUM SUBSTATION	28,219	790	
1506	RATTLESNAKE SUBSTATION(BENTONREA)	43,829	908	
1507	RIVERFRONT SUBSTATION	21,522	315	
1508	RILEY SUBSTATION	50,777	1,719	
1509	RIVERGATE SUBSTATION	4,468	834	
1510	ROCKY BROOK POWERHOUSE	2,016	1,685	
1511	ROSALIA SUBSTATION	28,425	936	
1512	ROXBORO SUBSTATION	21,585	1,925	
1513	RUSSELL SMITH POWERHOUSE	11,906	62	
1514	CENTRALIA MINES SUBSTATION	5,778	-	
1515	SAMMAMISH SUBSTATION	1,911	-	
1516	SCAPPOOSE SUBSTATION	39,482	1,303	
1517	SOUTH CUT BANK SUBSTATION	11,955	-	
1518	SCOGGINS VALLEY METERING POINT	27,685	963	
1519	SAND HILL CRANE SUBSTATION	70,897	1,085	
1520	SODA SPRINGS SUBSTATION	6,336	165	
1521	SOUTH ELMA SUBSTATION	318,651	3,794	
1522	SEDRO WOOLLEY SUBSTATION	41,393	347	
1523	SUGAR MILL SUBSTATION	660,266	1,195	
1524	SHORT MOUNTAIN GENERATING PLANT	17,681	905	
1525	SUN HEAVEN NO. 2 SUBSTATION	31,152	342	
1526	SKOOKUM SUBSTATION	68,054	704	
1527	SUMAS SUBSTATION	13,840	399	
1528	SMITH CREEK POWERHOUSE	4,962	309	
1529	SNYDER SUBSTATION	81,684	363	
1530	SNIPTION SUBSTATION	47,195	22	
1531	SOUTH BUTTE SUBSTATION	12,037	340	
1532	SPAW SUBSTATION	11,078	-	
1533	SPANGLE SUBSTATION	18,957	1,260	
1534	SUNNYSIDE PORT SUBSTATION	164,869	189	
1535	STATELINE SUBSTATION	35,972	2,036	25%
1536	ST. HELENS SUBSTATION	18,502	1,517	
1537	SATUS 2 SUBSTATION	9,693	-	
1538	SATUS 3 SUBSTATION	28,953	-	
1539	SUMNER SUBSTATION	22,970	548	
1540	SOUTH FORK SUBSTATION	49,334	277	
1541	SILVER STAR SUBSTATION	44,433	1,485	
1542	SWEETWATER SUBSTATION	22,846	313	
1543	TAPTEAL SUBSTATION	92,685	1,489	
1544	TROUT CREEK SUBSTATION	45,108	512	
1545	TECOMA METERING POINT	15,357	1,968	
1546	TEANAWAY SUBSTATION	398	1,015	
1547	THOMPSON FALLS SUBSTATION	41,428	1,222	
1548	THURSTON SUBSTATION	27,476	1,050	
1549	TWILIGHT SUBSTATION	20,840	-	
1550	TOSTON SUBSTATION	24,600	1,942	
1551	TARBELL SUBSTATION	18,665	465	
1552	TUM TUM SUBSTATION	26,909	525	
1553	TOWNSEND METERING POINT	35,194	1,442	
1554	TYEE SUBSTATION	86,912	977	
1555	UKIAH SUBSTATION	81,846	1,076	

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

	A	B	C	D
1556	UPPER GENERATING PLANT	17,829	-	
1557	U. S. PLYWOOD SUBSTATION	15,723	-	
1558	OXBOW SUBSTATION(PACIFIC CO PUD)	14,180	571	
1559	VAUGHN SUBSTATION	29,287	1,027	
1560	VICTOR SUBSTATION(FALL RIVER RURAL ELEC COOP)	81,618	283	
1561	VIEW SUBSTATION	13,906	491	
1562	VINSON METERING POINT	27,323	82	
1563	VISTA SUBSTATION	25,231	635	
1564	VANTAGE STATE PARK METERING POINT	20,238	-	
1565	WAHLUKE SUBSTATION	10,343	-	
1566	WEIPPE SUBSTATION	18,934	184	
1567	WEYERHAEUSER INDUSTRIAL WAY WEYCO NO 1 SUBSTATION (COWLITZ)	20,731	707	
1568	WHITCOMB SUBSTATION	95,864	462	
1569	WHEELER SUBSTATION	10,359	-	
1570	WHITEHALL SUBSTATION	64,230	563	
1571	WHITE RIVER SUBSTATION	10,703	-	
1572	WILLAKENZIE SUBSTATION	32,420	-	
1573	WINNEMUCCA SUBSTATION	134,454	1,386	
1574	WEST JOHN DAY SUBSTATION	51,941	2,582	
1575	WELLS SUBSTATION(IDAHO POWER)	53,246	1,211	
1576	WESTMORELAND SUBSTATION	5,482	-	
1577	WARDEN POLE METERING POINT	14,752	1,810	
1578	WEST REXBURG METERING POINT	21,513	-	
1579	WEST WELLS SUBSTATION	18,036	408	
1580	WEST WENDOVER METERING POINT	59,200	860	
1581	WYNOOCHEE HYDRO PLANT	73,355	2,666	
1582	ARM RELIFT SUBSTATION	8,900	-	
1583	LITTLE FALLS GENERATING PLANT (UNKNOWN)	3,547	-	
1584	LYN PUMPS PUMPING PLANT (UNKNOWN)	28,149	-	
1585	SUNSET ROAD SUBSTATION (BENTON CO PUD)	26,467	475	
1586	CONDON WIND SUBSTATION(SEAWEST)	72,793	15,954	
1587	FINLEY SUBSTATION (BENTON COUNTY PUD)	11,011	2,029	
1588	WEST PLAINS SUBSTATION (IP&L)	103,071	552	
1589	COW CREEK SUBSTATION (UIUC)	14,830	1,430	
1590	SEVEN FEATHERS SUBSTATION (UIUC)	10,387	1,093	
1591	FEEDVILLE SUBSTATION (UEC)	6,548	1,054	
1592	HERMISTON BUTTE (UEC)	77,878	445	
1593	WARDEN POLE NO 2 METERING POINT	13,121	-	
1594	QUARTZ SUBSTATION (IDAHO POWER)	9,766	61	
1595	MOYIE DAM	32,179	1,305	
1596	DREWSEY METERING POINT (IPCO)	6,039	1,599	
1597	DOVER SWITCHING STATION	18,324	201	
1598	SHANO SUBSTATION	32,045	580	
1599	UNITY SUBSTATION (IDAHO POWERCOMPANY)	6,894	161	
1600	BROADMOOR SUBSTATION	102,869	439	
1601	CITY VIEW SUBSTATION	29,453	1,241	
1602	MILL PRIMARY SUBSTATION	44,409	-	
1603	HAYDEN SUBSTATION	39,160	406	
1604	FORT ROAD METERING POINT	23,768	509	
1605	ROBBINS ROAD METERING POINT	20,394	665	
1606	HAWK ROAD METERING POINT	17,340	3,747	
1607	BEAVER BAY SUBSTATION (COWLITZ PUD)	24,843	503	
1608	PAISLEY GEOTHERMAL PLANT METERING POINT	36,046	790	
1609	SubTotal Substation	3,485,254,112	34,772,217	
1610	Total Network	6,790,150,653	42,956,263	

Southern Intertie Facilities

	Investment (\$)	O&M (\$)	Multi %
1611	ALVEY-DIXONVILLE NO 1	25,192,398	-
1612	BIG EDDY 500/230KV TIE NO 1	51,352	1,627
1613	BIG EDDY-CELILO NO 1	1,284,742	4,781
1614	BIG EDDY-CELILO NO 2	1,463,788	2,057
1615	BIG EDDY-CELILO NO 3	373,697	410
1616	BIG EDDY-CELILO NO 4	249,132	1,617
1617	BUCKLEY-GRIZZLY NO 1	9,961,133	13,751
1618	BUCKLEY-MARION NO 1	20,351,214	16,594
1619	BUCKLEY-MARION NO 1 (ML CLACKAMAS CO)	752,032	-
1620	BUCKLEY-MARION NO 1 (ML MARION CO)	322,300	-

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	A	B	C	D
1621	CAPTAIN JACK-MALIN NO 1	844,154	1,892	
1622	CAPTAIN JACK-OLINDA NO 1	7,393,503	1,277	
1623	CELILO-SYLMAR NO 1	54,630,428	122,406	
1624	COYOTE SPRINGS-SLATT NO 1	328,931	1,056	12%
1625	DIXONVILLE-MERIDIAN	33,312,011	-	
1626	GRIZZLY-CAPTAIN JACK NO 1	20,178,337	123,932	
1627	GRIZZLY-CAPTAIN JACK NO 1 ML KLAMATH CO	942,373	-	
1628	GRIZZLY-CAPTAIN JACK NO 1 ML LAKE CO	1,106,264	-	
1629	GRIZZLY-SUMMER LAKE NO 1	18,828,765	18,606	57%
1630	GRIZZLY-SUMMER LAKE NO 1 (CROOK CO)	143,465	-	57%
1631	GRIZZLY-SUMMER LAKE NO 1 (DESCHUTES CO)	169,530	-	57%
1632	GRIZZLY-SUMMER LAKE NO 1 (LAKE CO)	339,092	-	57%
1633	JOHN DAY-BIG EDDY NO 1	14,014,581	4,064	
1634	JOHN DAY-GRIZZLY NO 1	10,760,175	44,575	
1635	JOHN DAY-GRIZZLY NO 1 (JEFFERSON CO)	388,527	-	
1636	JOHN DAY-GRIZZLY NO 1 (SHERMAN CO)	549,297	-	
1637	JOHN DAY-GRIZZLY NO 1 (WASCO CO)	401,925	-	
1638	JOHN DAY-GRIZZLY NO 2	9,149,545	30,511	
1639	JOHN DAY-GRIZZLY NO 2 ML JEFFERSON CO	384,011	-	
1640	JOHN DAY-GRIZZLY NO 2 ML SHERMAN CO	576,018	-	
1641	JOHN DAY-GRIZZLY NO 2 ML WASCO CO	411,442	-	
1642	MARION-ALVEY NO 1	6,046,722	15,134	50%
1643	SLATT-JOHN DAY NO 1	328,108	2,187	7%
1644	SLATT-JOHN DAY NO 1 ML GILLIAM CO	18,922	-	7%
1645	SLATT-JOHN DAY NO 1 ML SHERMAN CO	14,101	-	7%
1646	CELILO-SYLMAR NO 1 (ML CROOK CO)	8,114,494	-	
1647	CELILO-SYLMAR NO 1 (ML DESCHUTES CO)	7,150,134	-	
1648	CELILO-SYLMAR NO 1 (ML JEFFERSON CO)	6,976,974	-	
1649	CELILO-SYLMAR NO 1 (ML LAKE CO)	30,848,261	-	
1650	CELILO-SYLMAR NO 1 (ML WASCO CO)	13,509,727	-	
1651	Subtotal Lines	307,861,605	406,476	

	Stations	Investment (\$)	O&M (\$)	Multi %
1652	ALVEY SUBSTATION	8,612,051	40,828	12%
1653	BAKEOVEN COMPENSATION STATION	24,803,638	68,108	
1654	BIG EDDY 500 KV SWITCHYARD	23,995,374	74,366	
1655	BIG EDDY SUBSTATION	71,089,186	414,172	77%
1656	BUCKLEY SUBSTATION	7,135,715	131,107	64%
1657	CELILO DC CONVERTER STATION	445,515,144	3,670,515	
1658	CHIEF JOSEPH SUBSTATION	1,180,205	12,818	3%
1659	CAPTAIN JACK SUBSTATION	42,893,008	268,593	
1660	DIXONVILLE SUBSTATION	7,837,854	-	
1661	FORT ROCK COMPENSATION STATION	17,678,504	88,129	
1662	GRIZZLY SUBSTATION	33,620,597	551,993	
1663	JOHN DAY SUBSTATION	14,145,389	179,097	27%
1664	MALIN SUBSTATION	30,311,629	206,633	
1665	MARION SUBSTATION	3,594,409	38,185	8%
1666	MERIDIAN SUBSTATION(PACIFICORP)	9,354,973	-	
1667	ROUND MOUNTAIN SUBSTATION	65,046	-	
1668	SAND SPRING COMPENSATION STATION	18,483,819	92,746	
1669	SLATT SUBSTATION	3,023,067	14,244	4%
1670	SUMMER LAKE SUBSTATION	3,896,516	64,355	57%
1671	SYCAN COMPENSATION STATION	16,166,985	115,317	
1672	SYLMAR DC CONVERTER STATION	2,784	-	
1673	Subtotal Stations	783,405,894	6,031,206	
1674	Total Southern Intertie	1,091,267,500	6,437,682	

Eastern Intertie Facilities

	Transmission Lines	Investment (\$)	O&M (\$)	Multi %
1675	BROADVIEW-GARRISON NO 1	47,280,913	205,949	
1676	BROADVIEW-GARRISON NO 2	46,990,310	156,050	
1677	Subtotal Lines	94,271,222	361,999	
	Stations	Investment (\$)	O&M (\$)	Multi %
1678	COLSTRIP SUBSTATION	43,099	1,074	
1679	GARRISON SUBSTATION	27,325,017	257,515	31%
1680	Subtotal Stations	27,368,116	258,590	
1681	Total Eastern Intertie	121,639,338	620,588	

Appendix A BP-22 Rate Case Initial Proposal Segmentation Details

A		B		C	D
		Utility Delivery Facilities			
Transmission Lines		Investment (\$)	O&M (\$)	Multi %	
1682	ALBANY-BUREAU OF MINES NO 1	23,660	1,518		
1683	HOOD RIVER-COOP SERVICE NO 1	268,367	758		
1684	Grouse Creek-Tecoma Transmission Lines & Substation	121,332	-	6%	
1685	Subtotal Lines	413,359	2,276		
Stations		Investment (\$)	O&M (\$)	Multi %	
1686	ACTON SUBSTATION	43,859	3,828	18%	
1687	ALBANY SUBSTATION	1,938,603	18,894	12%	
1688	BANDON SUBSTATION	841,114	13,394	16%	
1689	BONNERS FERRY SUBSTATION	636,101	13,844	22%	
1690	BURBANK SUBSTATION	126,063	2,104	15%	
1691	BURNT WOODS SUBSTATION	602,039	6,307	44%	
1692	CASCADE LOCKS SUBSTATION	252,354	12,032	39%	
1693	DIXIE SUBSTATION	337,515	8,017	45%	
1694	DRAIN SUBSTATION	322,557	3,572	10%	
1695	GARDINER SUBSTATION	315,372	10,370	34%	
1696	GLADE SUBSTATION	326,212	7,315	50%	
1697	HARRISBURG SUBSTATION	190,947	889	4%	
1698	HOOD RIVER SUBSTATION	563,261	16,889	26%	
1699	IONE SUBSTATION	135,510	2,983	14%	
1700	LACLEDE SUBSTATION	294,647	9,321		
1701	LANGLOIS SUBSTATION	203,884	6,644	32%	
1702	LYNCH CREEK SUBSTATION	545,682	8,006	43%	
1703	MAPLETON SUBSTATION	155,228	5,364	14%	
1704	MINIDOKA SUBSTATION	246,447	6,873	64%	
1705	MONMOUTH SUBSTATION	946,355	26,085	42%	
1706	MOUNTAIN AVENUE SUBSTATION	459,383	7,556	22%	
1707	NORTH BENCH SUBSTATION	435,183	3,810	59%	
1708	NORTH BUTTE SUBSTATION	86,353	5,371	44%	
1709	PARKDALE SUBSTATION	438,552	9,156	29%	
1710	PORT ORFORD SUBSTATION	174,549	12,763	37%	
1711	POTLATCH SUBSTATION(BPA)	118,148	3,481	11%	
1712	REEDSPORT SUBSTATION (BPA)	206,897	5,377	6%	
1713	RINGOLD SUBSTATION	118,297	3,509	21%	
1714	SANDPOINT SUBSTATION(BPA)	198,146	3,177	15%	
1715	SCOOTENEY SUBSTATION	136,876	2,948	8%	
1716	SELLE SUBSTATION	512,312	6,386	69%	
1717	STEILACOOM SUBSTATION	346,790	4,997	31%	
1718	SURPRISE LAKE SUBSTATION	155,330	3,595	20%	
1719	SWAN VALLEY SUBSTATION	299,734	1,841	2%	
1720	TWO MILE ROAD SUBSTATION	456,726	5,235	29%	
1721	TROY SUBSTATION	401,606	14,692	37%	
1722	TUMBLE CREEK SUBSTATION	388,364	6,818	28%	
1723	WALTON SUBSTATION	352,343	9,578	62%	
1724	WINTHROP SUBSTATION	180,015	2,412	12%	
1725	YAAK SUBSTATION	1,839,275	12,522	82%	
1726	DAVIS CREEK SUBSTATION	471,589	7,649	86%	
1727	NECANICUM SUBSTATION	183,289	6,258	54%	
1728	STATELINE SUBSTATION	105,755	5,985	75%	
1729	Subtotal Stations	17,089,261	327,846		
1730	Total Utility Delivery	17,502,620	330,122		
		DSI Delivery Facilities			
Transmission Lines		Investment (\$)	O&M (\$)	Multi %	
1731	None				
1732	Subtotal Lines	0	0		
Stations		Investment (\$)	O&M (\$)	Multi %	
1733	INTALCO SUBSTATION	7,028,592	150,873	36%	
1734	TRENTWOOD SUBSTATION	1,307,977	22,999	18%	
1735	Subtotal Stations	8,336,569	173,872		
1736	Total DSI Delivery	8,336,569	173,872		

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	A	B	C	D
1737	BALD MOUNTAIN-CONDIT FIBER SYSTEM (UNKNOWN)	6,914	-	
1738	BELL-BOUNDARY FIBER SYSTEM	1,194,071	-	
1739	BELLINGHAM-CUSTER FIBER SYSTEM	128,524	-	
1740	BELL-NOXON FIBER SYSTEM	44,711	-	
1741	BPA SYSTEM-LINES (UNKNOWN)	6,001,056	59,289	
1742	CHENEY TAP TO SILVER LAKE-SUNSET	-	4,958	
1743	CHENOWETH-HARVEY NO 1	65,831	133	
1744	CHENOWETH-HARVEY NO 2	81,980	96	
1745	CHRISTOPHER TAP TO TACOMA-COVINGTON-4 (RETIRED)	61,063	-	
1746	CONKELLY TAP TO HUNGRY HORSE-COLUMBIA FALLS NO 1 (OBSOLETE)	2,743	-	
1747	COTTAGE GROVE-DRAIN NO 1 (RETIRED)	312,761	-	
1748	COVINGTON-BELL FIBER SYSTEM	80,126	-	
1749	COVINGTON-MAPLE VALLEY FIBER SYSTEM	17,342	-	
1750	FIDALGO-BELLINGHAM FIBER SYSTEM (BLACK ROCK CABLE INC)	360,930	-	
1751	FOUR LAKES TAP TO SUNSET-EAST COLFAX	0	6,204	
1752	FRANKLIN-HATWAI FIBER SYSTEM (ML GARFILED CO)	28,924	-	
1753	FRANKLIN-MUNRO FIBER SYSTEM	185,538	-	
1754	FRANZ HOLMES TAP TO COWLITZ-LAGRANDE NO 1,2 (OBSOLETE)	276,241	-	
1755	GRAND COULEE 115KV-GRAND COULEE RS FIBER SEG	18,644	-	
1756	JACKSON TAP TO CANAL-SECOND LIFT NO. 1(SOLD)	47,234	1,059	
1757	KEELER-ALVEY FIBER SYSTEM	1,018,867	-	
1758	KEELER-COVINGTON FIBER SYSTEM	840,443	-	
1759	LANE-FAIRVIEW FIBER SYSTEM	1,889	270	
1760	LOPEZ ISLAND-DECATUR NO 1	1,203,825	-	
1761	MARION-SANTIAM 2 (DEENERGIZED)	615,992	-	
1762	NOXON-TAFT FIBER SYSTEM	357,479	-	
1763	OREGON CITY STUB 20/7-23/12 SECTION(DEENERGIZED)	155	-	
1764	PEARL-TROUTDALE FIBER SYSTEM	113,714	-	
1765	REEDSPORT-TAHKENITCH FIBER SYSTEM	24,936	837	
1766	ROSS-FRANKLIN FIBER SYSTEM	8,168,654	-	
1767	ROSS-MALIN FIBER SYSTEM	4,670,521	-	
1768	SANTIAM-LYONS UHV XFMR 1	126,000	-	
1769	SWAN VALLEY-SWAN VALLEY RS FIBER SYSTEM	6,690	-	
1770	TUMBLE CREEK-HALL RIDGE NO.1	610,574	76	
1771	WALNUT CITY TAP TO FOREST-GROVE-MCMINNVILLE NO 1	318,013	2,874	
1772	BIG EDDY-WAUTOMA FIBER SYSTEM	101,575	-	
1773	FRANKLIN-HATWAI FIBER SYSTEM	203,341	-	
1774	KALISPELL-HOT SPRINGS FIBER OPTIC SYSTEM	216,126	-	
1775	TAFT-BALD MOUNTAIN FIBER OPTIC SYSTEM	2,926,231	-	
1776	Subtotal Lines	30,439,656	75,796	
	Stations (allocated according to direct station segmentation)	Investment (\$)	O&M (\$)	Multi %
1777	ADDY SUBSTATION	1,226,472	11,981	10%
1778	ALCOA SUBSTATION	485,258	11,575	5%
1779	BAYSHORE SUBSTATION(OBS-RETIRED)	19,501	-	
1780	SYSTEM WIDE (UNKNOWN)	3,312,896	8,962,621	
1781	BURBANK SUBSTATION	11,348	189	1%
1782	EAGLE LAKE SUBSTATION	450,321	23,531	
1783	GLADE SUBSTATION	35,626	799	5%
1784	PAUL D. JOHNSON SUBSTATION	2,847,803	11,773	
1785	KAMILCHE SUBSTATION (OBS-RETIRED)	49,049	-	
1786	NORWAY SUBSTATION	13,242	13,055	
1787	RINGOLD SUBSTATION	28,890	857	5%
1788	TACOMA SUBSTATION	312,690	4,302	1%
1789	TRENTWOOD SUBSTATION	15,081	265	0%
1790	VALHALLA SUBSTATION	317,754	5,778	6%
1791	KIONA HYDROMET STATION	6,709	-	
1792	FOSTER (INACTIVE. SEE NODTES)	4,456	-	
1793	APPLEWAY (INACTIVE. SEE NOTES)	24,252	-	
1794	ARGENT(INACTIVE. SEE NOTES)	55,722	-	
1795	CENTRALIA START UP(INACTIVE. SEE NOTES)	13,477	-	
1796	CAPE HORN(INACTIVE. SEE NOTES)	14,135	-	
1797	Subtotal Stations	9,244,682	9,046,726	
	Other Locations (allocated by direct station segmentation)	Investment (\$)		
1798	ASHTON HILL RADIO STATION	234,506		
1799	AUGSPURGER MOUNTAIN RADIO STATION	11,893		
1800	BALD MOUNTAIN RADIO STATION	130,284		

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	A	B	C	D
1801	BIDDLE BUTTE RADIO STATION	163,480		
1802	BLUE RIDGE RADIO STATION	91,805		
1803	BLYN RADIO STATION	49,178		
1804	BPA SYSTEM-MICROWAVE & RADIO STATIONS	182,611		
1805	COYOTE HILLS RADIO STATION	25,472		
1806	CULDESAC RADIO STATION	6,995		
1807	DECATUR WEST RADIO STATION	47,229		
1808	DITTMER BPA SYSTEM CONTROL CENTER	20,956,684		
1809	DEL RIO RADIO STATION	13,084		
1810	GRAND COULEE RADIO STATION	47,372		
1811	GREEN MOUNTAIN PASSIVE REPEATER SITE	3,007		
1812	GRANITE MOUNTAIN RADIO STATION	144,812		
1813	HAYSTACK BUTTE RADIO STATION	372,133		
1814	HORSE ROCK RADIO STATION	(2,444)		
1815	KAHLOTUS RADIO STATION	370,232		
1816	KENNEWICK RADIO STATION	49,374		
1817	KENYON MOUNTAIN RADIO STATION	66,849		
1818	LOWELL BUTTE RADIO STATION	7,559		
1819	MALAGA RADIO STATION	17,384		
1820	MARYS PEAK RADIO STATION	5,002		
1821	MT. HEBO RADIO STATION	12,244		
1822	MEGLER RADIO STATION	11,556		
1823	MILLER PEAK RADIO STATION	748,973		
1824	NASELLE RIDGE RADIO STATION	295,505		
1825	ODELL BUTTE RADIO STATION	92,507		
1826	OSTRANDER PASSIVE REPEATER SITE	25,022		
1827	PATRICKS KNOB RADIO STATION	251,396		
1828	POMEROY RADIO STATION	458,885		
1829	CYRUS NOE RADIO STATION	358,292		
1830	ROCKY RIDGE RADIO STATION	551,991		
1831	ROCKDALE PASSIVE REPEATER N1 SITE	85,587		
1832	ROOSEVELT RADIO STATION	13,534		
1833	ROSS RADIO STATION	7,516		
1834	SCOTT MOUNTAIN RADIO STATION	87,309		
1835	SEATTLE RADIO STATION	3,939		
1836	SKYROCKET RADIO STATION	6,481		
1837	SOUTH MOUNTAIN RADIO STATION	2,770		
1838	SQUAK MOUNTAIN RADIO STATION	4,272		
1839	TACOMA RADIO STATION	158,688		
1840	WEST PORTLAND RADIO STATION	51,705		
1841	WALKER MOUNTAIN RADIO STATION	625,240		
1842	CAPE BLANCO RADIO STATION (BPA)	58,688		
1843	RUBY MOUNTAIN	108,499		
1844	BEARMOUTH RADIO STATION	531,825		
1845	ALBERTON RADIO STATION	290,137		
1846	DECATUR EAST RADIO STATION	50,787		
1847	ALVEY MAINTENANCE HEADQUARTERS	5,494,284		
1848	BELL HEATLINE	4,661		
1849	BELL MAINTENANCE HEADQUARTERS	536,791		
1850	BPA SYSTEM-NON ELECTRIC PLANT& MISC	4,919,823		
1851	BPA SYSTEM (UNKNOWN)	14,647,268		
1852	BURLEY MAINTENANCE HEADQUARTERS	6,969		
1853	CHEMAWA MAINTENANCE HEADQUARTERS	74,117		
1854	CHEHALIS MAINTENANCE HEADQUARTERS	88,062		
1855	COVINGTON MAINTENANCE HEADQUARTERS	15,113		
1856	EASTERN CONTROL CENTER	32,523		
1857	EUGENE C. STARR COMPLEX	9,922,339		
1858	KALISPELL MAINTENANCE HEADQUARTERS	29,664		
1859	LEWISTON MAINTENANCE HEADQUARTERS	59,008		
1860	LONGVIEW MAINTENANCE HEADQUARTERS	6,039,346		
1861	LONGVIEW ANNEX I	4,156,172		
1862	MALIN MAINTENANCE HEADQUARTERS	398,113		
1863	ROSS MOBILE STORAGE	8,112		
1864	MUNRO BPA SYSTEM CONTROL CENTER	8,648,519		
1865	NORTH BEND MAINTENANCE HEADQUARTERS	723,564		
1866	NORTH BONNEVILLE ANNEX	29,495		
1867	OLYMPIA MAINTENANCE HEADQUARTERS	166,376		
1868	PASCO MAINTENANCE HEADQUARTERS	181,086		

Appendix A

BP-22 Rate Case Initial Proposal Segmentation Details

A		B	C	D
1869	ROSS AMPERE BUILDING	822,365		
1870	ROSS CONSTRUCTION AND SERVICES BUILDING	153,407		
1871	REDMOND MAINTENANCE HEADQUARTERS	292,041		
1872	ROSS FOG TEST BUILDING	81,579		
1873	ROSS HEATLINE	6,853,017		
1874	ROSS MAINTENANCE HEADQUARTERS	5,804,613		
1875	ROSS COMPLEX	32,744,383		
1876	SICKLER MAINTENANCE HEADQUARTERS	50,012		
1877	SCHULTZ MAINTENANCE HEADQUARTERS	1,377,094		
1878	SNOHOMISH MAINTENANCE HEADQUARTERS	58,551		
1879	TACOMA PUBLIC UTILITIES DISPATCH CENTER	36,618		
1880	MINT FARM GENERATING PLANT (INACTIVE)	36,768		
1881	SPOKANE HANGAR	75,378		
1882	NEKITPE MAINTENANCE HEADQUARTERS	3,521,068		
1883	KEELER MAINTENANCE HEADQUARTERS	40,199		
1884	Subtotal Other	136,016,346		
Emergency Stock (allocated by direct sub segmentation)		Investment (\$)		
1885	ROSS WAREHOUSE	14,402,377		
1886	Subtotal Emergency Stock	14,402,377		
Depreciable Land				
Station Land (segmented to Network)		Investment (\$)		Multi %
1887	DWORSHAK SUBSTATION	41,226		82%
1888	LA PINE SUBSTATION	18,619		
1889	MARTIN CREEK SUBSTATION	11,808		
	NOXON CONSTRUCTION SUBSTATION	1		
1890	SIFTON SUBSTATION	12,810		
1891	OKANOGAN SUBSTATION	14,156		
1892	CONDON WIND SUBSTATION(SEAWEST)	44,431		
1893	Subtotal Network Station Land	143,051		
Station Land (segmented to Generation Integration)		Investment (\$)		Multi %
1894	DWORSHAK SUBSTATION	9,146		18%
1895	Subtotal Generation Integration Station Land	9,146		
Transmission Line Land (segmented to Network)		Investment (\$)		
1896	ALBANY-BURNT WOODS NO 1	307,619		
1897	ANDERSON RANCH-MOUNTAIN HOME NO 1			
1898	ASHE-SLATT NO 1	19,806		
1899	BELL-ADDY NO 1	5,046		
1900	BELL-BOUNDARY NO 3	5,046		
1901	BIG EDDY-CHENOWETH NO 1	387,831		
1902	BIG EDDY-CHENOWETH NO 2	387,596		
1903	BIG EDDY-SPRING CREEK NO 1	391,887		
1904	LIBBY-BONNERS FERRY NO 1	17,012		
1905	CHEHALIS-OLYMPIA NO 1	793		
1906	CHEHALIS-RAYMOND NO 1	47,011		
1907	CHIEF JOSEPH-EAST OMAK NO 1	10,724		
1908	CHIEF JOSEPH-MONROE NO 1	141,953		
1909	CHIEF JOSEPH-SNOHOMISH NO 3	31,581		
1910	COLUMBIA-ELLENSBURG NO 1	181,965		
1911	COLVILLE-REPUBLIC NO 1	31,460		
1912	DE MOSS-FOSSIL NO 1	320		
1913	DETROIT-SANTIAM NO 1			
1914	DWORSHAK PH-OROFINO NO 1	400		
1915	EAST OMAK TAP TO GRAND COULEE-FOSTER CREEK NO 1	174,817		
1916	FAIRVIEW-BANDON NO 2	1,602		
1917	FLATHEAD-HOT SPRINGS NO 1	10,728,941		
1918	FRANKLIN-BADGER CANYON NO 1	1,432		
1919	GARRISON-ANACONDA NO 1	149,847		
1920	GOSHEN-DRUMMOND NO 1	3,924		
1921	GRAND COULEE-BELL NO 5	2,114,751		
1922	GRAND COULEE-HANFORD NO 1	14,375		
1923	GRAND COULEE-OKANOGAN NO 2	470		
1924	GRAND COULEE-SCHULTZ NO 1	24,380		
1925	GRANDE ROND-BOYER NO 1	59,555		
1926	WAUTOMA-ROCK CREEK NO 1	391,431		

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

	A	B	C	D
1927	WAUTOMA-KNIGHT NO 1	11,853		
1928	HARVALUM-BIG EDDY NO 1	19,142,567		
1929	HORSE HEAVEN-HARVALUM NO 1	387,596		
1930	HOT SPRINGS-RATTLESNAKE NO 1	6,007,072		
1931	HUNGRY HORSE-CONKELLEY NO 1	6,043		
1932	JOHN DAY-BIG EDDY NO 1			
1933	KEELER-OREGON CITY NO 2	8,729		
1934	KELLER TAP TO GRAND COULEE-OKANOGAN NO 2	3,200		
1935	LA PINE-CHILOQUIN NO 1	-		
1936	LOWER MONUMENTAL-MCNARY NO 1	1,071		
1937	MCNARY-ROSS NO 1	387,596		
1938	MIDWAY-GRANDVIEW NO 1	13,005		
1939	MIDWAY-MOXEE NO 1	33,307		
1940	MONROE-CUSTER NO 1	119,377		
1941	NASELLE-TARLETT NO 1	2,036		
1942	NORTH BONNEVILLE-TROUTDALE NO 1	75,139		
1943	NOXON-HOT SPRINGS NO 1	1,672		
1944	OLYMPIA-GRAND COULEE NO 1	16,745		
1945	OLYMPIA-SATSOP NO 3	27,986		
1946	OSTRANDER-PEARL NO 1	45,358		
1947	PALISADES-CATTLE CREEK NO 1	89,749		
1948	PAUL-ALLSTON NO 2	236		
1949	RAVER-COVINGTON NO 2	387,596		
1950	RAYMOND-COSMOPOLIS NO 1	36,335		
1951	RAYMOND-HENKLE ST. NO 1	38,002		
1952	REEDSPORT-FAIRVIEW NO 1	90,790		
1953	ROCKY REACH-MAPLE VALLEY NO 1	210,071		
1954	ROSS-LEXINGTON NO 1	82,898		
1955	ROUNDUP-LAGRANDE NO 1	645,809		
1956	SALEM-ALBANY NO 1	12,821		
1957	SALEM-ALBANY NO 2	161,315		
1958	SANTIAM-TOLEDO NO 1	78,122		
1959	SPAR CANYON - ROUND VALLEY	56,208		
1960	SPIRIT TAP TO COLVILLE-BOUNDARY NO 1	24,206		
1961	SWAN VALLEY-TETON NO 1	54,679		
1962	TAFT-BELL NO 1	133,069		
1963	WALLA WALLA-TUCANNON RIVER NO 1	1,340		
1964	WALLA WALLA-PENDLETON NO 1	126,393		
1965	PENDLETON-LAGRANDE (INACTIVE, SEE NOTES)			
1966	ROSS-FRANKLIN FIBER SYSTEM			
1967	KLONDIKE SCHOOLHOUSE-JOHN DAY NO 1	657,883		
1968	BELL-LANCASTER NO 1	8,276		
1969	LANCASTER-NOXON NO 1	82,527		
1970	GRAND COULEE-CRESTON NO 1	6,053		
1971	SCHULTZ-WAUTOMA NO 1	2,277,742		
1972	FIDALGO-LOPEZ ISLAND NO 5	63,802		
1973	HOT SPRINGS-GARRISON FIBER SYSTEM			
1974	COVINGTON-MAPLE VALLEY FIBER SYSTEM			
1975	TUCANNON RIVER-NORTH LEWISTON NO 1	862,880		
1976	LONGVIEW-WASHINGTON WAY NO 1	211,016		
1977	FRANKLIN-HATWAI FIBER SYSTEM	-		
1978	FOREST GROVE-TILLAMOOK NO 1	1,731		
1979	Subtotal Network Line Land	48,325,478		
	Transmission Line Land (segmented to Generation Integration)	Investment (\$)		
1980	ANDERSON RANCH-MOUNTAIN HOME NO 1	60,166		
1981	DETROIT-SANTIAM NO 1	677		
1982	Subtotal GI Line Land	60,843		
	Transmission Line Land (segmented pro-rata)	Investment (\$)		
1983	PENDLETON-LAGRANDE	195		
1984	COVINGTON-MAPLE VALLEY FIBER SYSTEM	23,437		
1985	FRANKLIN-HATWAI FIBER SYSTEM	82,675		
1986	HOT SPRINGS-GARRISON FIBER SYSTEM	58,561		
1987	ROSS-FRANKLIN FIBER SYSTEM	97,757		
1988	Subtotal Line Land pro-rata	262,624		
	Other Facility Land (segmented pro-rata)	Investment (\$)		

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

	A	B	C	D
1989	ALBION BUTTE RADIO STATION	98,914		
1990	APPLEGATE BUTTE RADIO STATION	49,780		
1991	BOISTFORT PEAK RADIO STATION(WEYERHOUSER)	9,081		
1992	CAPITOL PEAK RADIO STATION(BPA)	1,916		
1993	INDIAN MOUNTAIN RADIO STATION	72,672		
1994	ELLIS RADIO STATION	6,824		
1995	GRANITE MOUNTAIN RADIO STATION	-		
1996	HAYSTACK BUTTE RADIO STATION	388,346		
1997	MICA PEAK RADIO STATION	18,926		
1998	SICKLER PASSIVE REPEATER SITE	913		
1999	SWAN LAKE POINT RADIO STATION	53,959		
2000	CAPE BLANCO RADIO STATION (BPA)	118,992		
2001	BONANZA RADIO STATION (FAA)	58,971		
2002	TECTONIC RADIO STATION	92,010		
2003	SEVEN MILE HILL METEOROLOGICAL TOWER	15,105		
2004	Subtotal Other pro-rata	986,409		

Ancillary Service Facilities

	Communication and Control Equipment ***	Investment (\$)
2005	DITTMER BPA SYSTEM CONTROL CENTER	76,080,343
2006	ALBION BUTTE RADIO STATION	1,686,222
2007	ALLSTON SUBSTATION	214,004
2008	ALVEY SUBSTATION	104,284
2009	ASHE SUBSTATION	80,036
2010	BELL SUBSTATION	882,897
2011	BELL-BOUNDARY FIBER SYSTEM	6,260,543
2012	BELL-BOUNDARY NO 1 (ML PEND OREILLE CO)	3,183,631
2013	BELL-BOUNDARY NO 1 (ML SPOKANE CO)	3,135,434
2014	BELLINGHAM SUBSTATION(BPA)	170,495
2015	BIG EDDY-KNIGHT NO 1 (ML KLIKTAT CO)	2,640,705
2016	BIG EDDY-KNIGHT NO 1 (ML WASON CO)	1,683,459
2017	BONNEVILLE BUILDING PORTLAND	92,338
2018	BPA SYSTEM (UNKNOWN)	5,278,582
2019	BUCKLEY SUBSTATION	1,022,359
2020	CANAL SUBSTATION	219,977
2021	CAPTAIN JACK SUBSTATION	2,582,327
2022	CELILO DC CONVERTER STATION	2,032,967
2023	CENTRAL FERRY SUBSTATION	90,813
2024	CHEHALIS SUBSTATION	-
2025	CHEMAWA SUBSTATION	190,821
2026	COVINGTON SUBSTATION	-
2027	CUSTER SUBSTATION	226,202
2028	DE MOSS SUBSTATION(BPA)	29,619
2029	DRUMMOND SUBSTATION	230,923
2030	DWORSHAK POWERHOUSE	18,678
2031	DWORSHAK SUBSTATION	601,088
2032	EASTERN CONTROL CENTER	3,516
2033	ECHO LAKE SUBSTATION	1,395,085
2034	ELLENSBURG SUBSTATION	792,402
2035	EUGENE C. STARR COMPLEX	31,743
2036	EUGENE SUBSTATION	186,442
2037	FAIRMOUNT SUBSTATION	318,479
2038	FAIRVIEW SUBSTATION(BPA)	12,446
2039	FORT ROCK COMPENSATION STATION	2,691,394
2040	FRANKLIN SUBSTATION	483,353
2041	FRANKLIN-HATWAI FIBER SYSTEM	2,451,595
2042	FRANKLIN-HATWAI FIBER SYSTEM (ML GARFILED CO)	583,943
2043	FRANKLIN-MUNRO FIBER SYSTEM	2,659,390
2044	GARRISON SUBSTATION	98,326
2045	GRAND COULEE 500 KV SWITCHYARD	3,245
2046	GRAND COULEE-CRESTON NO 1 (GRANT CO)	24,085
2047	GRANDVIEW SUBSTATION	263,308
2048	HANFORD SUBSTATION	894,903
2049	HAT ROCK SUBSTATION	240,026
2050	HATWAI SUBSTATION	1,136,496
2051	HAYSTACK BUTTE RADIO STATION	1,192,964
2052	HORSE HEAVEN SUBSTATION	893,851
2053	INTALCO SUBSTATION	175,054

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

	A	B	C	D
2054	JOHN DAY SUBSTATION	1,685,527		
2055	KITSAP SUBSTATION	331,592		
2056	LA GRANDE SUBSTATION	12,800		
2057	LA PINE SUBSTATION	20,881		
2058	LANE SUBSTATION	220,634		
2059	LEBANON SUBSTATION	81,133		
2060	LEXINGTON SUBSTATION	347,857		
2061	LINES CREEK RADIO STATION	1,302,567		
2062	LITTLE GOOSE SUBSTATION	427,739		
2063	LONGVIEW SUBSTATION	154,420		
2064	LOOKOUT MOUNTAIN RADIO STATION	2,424,830		
2065	LOWER GRANITE SUBSTATION	165,517		
2066	LOWER GRANITE-HATWAI NO 1 (NEZ PERCE CO)	944,336		
2067	LOWER GRANITE-HATWAI NO 1 (WHITMAN CO)	4,970,991		
2068	LOWER MONUMENTAL SUBSTATION	1,138,438		
2069	MALIN SUBSTATION	5,381		
2070	MAPLE VALLEY SUBSTATION	678,985		
2071	MARION SUBSTATION	992,473		
2072	MARTIN CREEK SUBSTATION	398,337		
2073	MCNARY SUBSTATION	3,225,078		
2074	MERRITT RADIO STATION	1,158,490		
2075	METALINE RADIO STATION	1,131,054		
2076	MICA PEAK RADIO STATION	1,354,199		
2077	MIDWAY SUBSTATION(BPA)	2,453,286		
2078	MONROE SUBSTATION	1,592,142		
2079	MORROW FLAT	1,711,113		
2080	MOXEE SUBSTATION	849,569		
2081	MUNRO BPA SYSTEM CONTROL CENTER	11,908,794		
2082	OLYMPIA SUBSTATION	192,539		
2083	OREGON CITY SUBSTATION	13,715		
2084	OSTRANDER SUBSTATION	43,391		
2085	PAUL SUBSTATION	73,728		
2086	PEARL SUBSTATION	171,951		
2087	POMEROY SUBSTATION(BPA)	33,622		
2088	PONDEROSA SUBSTATION(BPA)	790,799		
2089	RED MOUNTAIN SUBSTATION	1,158,018		
2090	ROSS MAINTENANCE HEADQUARTERS	251,851		
2091	ROUND VALLEY SUBSTATION	524,431		
2092	SACAJAWEA SUBSTATION	469,560		
2093	SACAJAWEA TAP TO LOWER MONUMENTAL-MCNARY NO 1	8,312,639		
2094	SALEM SUBSTATION (SALEM ELEC & BPA)	608,425		
2095	SAND SPRING COMPENSATION STATION	2,732,132		
2096	SANTIAM SUBSTATION	546,829		
2097	SATSOP SUBSTATION(BPA)	-		
2098	SHANIKO RADIO STATION	553,061		
2099	SHANO SUBSTATION	4,255		
2100	SHELTON SUBSTATION	1,853,778		
2101	SICKLER SUBSTATION	-		
2102	SNO-KING SUBSTATION	1,413,762		
2103	SWAN LAKE POINT RADIO STATION	96,851		
2104	SWAN VALLEY SUBSTATION	6,178		
2105	SYCAN COMPENSATION STATION	1,379,027		
2106	TACOMA SUBSTATION	-		
2107	TEAKEAN BUTTE RADIO STATION	1,451,146		
2108	TUCANNON RIVER SUBSTATION	47,647		
2109	TUNK MOUNTAIN RADIO STATION	1,191,191		
2110	VANTAGE SUBSTATION	254,130		
2111	WALKER MOUNTAIN RADIO STATION	1,499,852		
2112	WAUTOMA SUBSTATION	127,531		
2113	WHITE BLUFFS SUBSTATION	66,962		
2114	SYSTEM WIDE (UNKNOWN)	1,599,565		
2115	BPA SYSTEM-NON ELECTRIC PLANT& MISC	20,163,017		
2116	SEDRO WOOLLEY SUBSTATION	25,481		
2117	ROSS AMPERE BUILDING	46,888		
2118	Total Ancillary Service	214,662,911		

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

General Plant Facilities

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

A	B	C	D
General Plant	Investment (\$)		
2119 ABERDEEN SUBSTATION	40,359		
2120 ADDY SUBSTATION	497,645		
2121 ALBANY SUBSTATION	367,297		
2122 ALCOA SUBSTATION	349,890		
2123 ALFALFA SUBSTATION	109,518		
2124 ALBENI FALLS SUBSTATION	342,254		
2125 ALLSTON SUBSTATION	1,903,584		
2126 ALVEY SUBSTATION	5,873,885		
2127 ANACONDA SUBSTATION	231,073		
2128 ASHE SUBSTATION	6,786,879		
2129 ATHOL SUBSTATION(KOOTENAI ELEC COOP)	-		
2130 BADGER CANYON SUBSTATION	1,318,867		
2131 BAKEOVEN COMPENSATION STATION	20,113		
2132 BANDON SUBSTATION	719,357		
2133 BELLINGHAM SUBSTATION(BPA)	1,580,385		
2134 BELL SUBSTATION	7,187,560		
2135 BENTON SUBSTATION	845,712		
2136 BIG EDDY 500 KV SWITCHYARD	512,815		
2137 BIG EDDY SUBSTATION	3,478,280		
2138 BUCKLEY SUBSTATION	2,012,373		
2139 BOARDMAN SUBSTATION	863,994		
2140 BONNERS FERRY SUBSTATION	-		
2141 BONNEVILLE POWERHOUSE #1	3,513		
2142 BOUNDARY SUBSTATION	3,269,665		
2143 SYSTEM WIDE (UNKNOWN)	72,108,953		
2144 BRIDGE SUBSTATION	271,661		
2145 BURLEY SUBSTATION(CITY OF BURLEY)	-		
2146 CANBY SUBSTATION(BPA)	243,301		
2147 OAK PARK SUBSTATION	-		
2148 CARBORUNDUM SUBSTATION	-		
2149 CARDWELL SUBSTATION	404,621		
2150 CARLTON SUBSTATION	97,868		
2151 CATHLAMET SUBSTATION	17,960		
2152 CELILO DC CONVERTER STATION	6,490,105		
2153 CENTRALIA SUBSTATION	31,477		
2154 CHEHALIS SUBSTATION	2,289,124		
2155 CHEMAWA SUBSTATION	6,953,338		
2156 CHENOWETH SUBSTATION	836,424		
2157 CHIEF JOSEPH SUBSTATION	4,193,371		
2158 CHALLIS SUBSTATION	-		
2159 CHIEF JOSEPH POWERHOUSE	508,107		
2160 CLARK SUB (UNKNOWN)	-		
2161 CLATSKANIE SWITCHING STATION (CLATSKANIE PUD)	-		
2162 CLATSOP SUBSTATION	10,265		
2163 CANAL SUBSTATION	219,977		
2164 COBURG SUBSTATION	140,618		
2165 COLUMBIA FALLS SUBSTATION -- 115 YARD	558,664		
2166 CONKELLEY SUBSTATION	977,277		
2167 COLSTRIP SUBSTATION	165,332		
2168 COLUMBIA SUBSTATION	3,181,921		
2169 COLVILLE SUBSTATION	856,756		
2170 COSMOPOLIS SUBSTATION	45,953		
2171 COVINGTON SUBSTATION	6,128,702		
2172 COWLITZ SUBSTATION	219,418		
2173 CAPTAIN JACK SUBSTATION	3,208,826		
2174 CRESTON SUBSTATION(BPA)	155,983		
2175 COYOTE SPRINGS SUBSTATION	766,302		
2176 CUSICK SUBSTATION	2,168,514		
2177 CUSTER SUBSTATION	3,161,938		
2178 DECATUR SUBSTATION	134,517		
2179 DE MOSS SUBSTATION(BPA)	525,741		
2180 DIXON SUBSTATION	330,194		
2181 DIXONVILLE SUBSTATION	111,935		
2182 DOUGLAS SWITCHYARD	-		
2183 DRAIN SUBSTATION	21,211		
2184 DRISCOLL SUBSTATION	411,453		
2185 DRUMMOND SUBSTATION	112,634		

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A	B	C	D
2186	DWORSHAK SUBSTATION	1,394,740	
2187	DWORSHAK POWERHOUSE	1,082,313	
2188	ECHO LAKE SUBSTATION	2,984,747	
2189	ELLENSBURG SUBSTATION	1,025,158	
2190	EAST OMAK SUBSTATION	255,308	
2191	EUGENE SUBSTATION	407,677	
2192	FAIRMOUNT SUBSTATION	874,970	
2193	FAIRVIEW SUBSTATION(BPA)	1,399,633	
2194	FIDALGO SUBSTATION	495,760	
2195	FLATHEAD SUBSTATION(BPA & FLATHEAD ELEC)	1,044,283	
2196	FOREST GROVE SUBSTATION	8,965	
2197	FORT ROCK COMPENSATION STATION	1,527,143	
2198	FOSTER SUBSTATION	16,933	
2199	FOSSIL SUBSTATION	1,118,745	
2200	FOSTER CREEK SUBSTATION(NESPELEM VALLEY ELEC)	-	
2201	FRANKLIN SUBSTATION	3,702,879	
2202	FORT ROCK SUBSTATION (MIDSTATE ELECTRIC COOP)	182,101	
2203	GARRISON SUBSTATION	6,114,901	
2204	GREENBERRY SUBSTATION	-	
2205	GRAND COULEE 500 KV SWITCHYARD	1,111,603	
2206	GRAND COULEE LEFT POWERHOUSE	-	
2207	GRAND COULEE 115 KV SWITCHYARD	202,669	
2208	GRAND COULEE SWITCHYARDS (DO NOT USE)	-	
2209	GRAND COULEE THIRD POWERHOUSE	150,705	
2210	GRAND COULEE 230 KV SWITCHYARD	2,895,703	
2211	GOSHEN SUBSTATION(PACIFICORP)	-	
2212	GOLDENDALE SUBSTATION(BPA)	11,710	
2213	GOSHEN SUBSTATION(UTAH POWER & LIGHT)	268,727	
2214	GRANDVIEW SUBSTATION	82,231	
2215	GRAND COULEE SUBSTATION	242,598	
2216	GRIZZLY SUBSTATION	2,730,415	
2217	HALF MOON SUBSTATION(INLAND POWER & LIGHT)	-	
2218	HANNA SUBSTATION (GLENBROOK NICKEL)	-	
2219	HANFORD SUBSTATION	2,058,084	
2220	HAPPY CAMP SUBSTATION	-	
2221	HAPPY VALLEY SUBSTATION	92,463	
2222	HARRISBURG SUBSTATION	383,612	
2223	PAUL D. JOHNSON SUBSTATION	38,989	
2224	HARNEY SUBSTATION(BPA)	173,309	
2225	HARVEY SUBSTATION	-	
2226	HAUSER SUBSTATION(BPA)	-	
2227	HAY MILL SUBSTATION (UNITED ELEC & CITY OF RUPERT)	-	
2228	HEYBURN SUBSTATION	28,108	
2229	HUNGRY HORSE POWERHOUSE	554,568	
2230	HUNGRY HORSE SWITCHYARD	-	
2231	HILLTOP SUBSTATION	27,330	
2232	HOLCOMB SUBSTATION	16,087	
2233	HORSE HEAVEN SUBSTATION	388,526	
2234	HOOD RIVER SUBSTATION	143,515	
2235	HOT SPRINGS SUBSTATION	2,273,407	
2236	HARVALUM SUBSTATION	342,925	
2237	HAT ROCK SUBSTATION	322,079	
2238	HATWAI SUBSTATION	2,564,732	
2239	ICE HARBOR POWERHOUSE	388,526	
2240	IDAHOME SUBSTATION	94,843	
2241	INTALCO SUBSTATION	990,281	
2242	JOHN DAY SUBSTATION	7,373,703	
2243	JOHN DAY POWERHOUSE	232,475	
2244	KALISPELL SUBSTATION(BPA)	2,474,960	
2245	KAMILCHE SUBSTATION (OBS-RETIRED)	-	
2246	KEELER SUBSTATION	2,745,995	
2247	KELLER SUBSTATION	-	
2248	KENNEWICK SUBSTATION(BENTON CO PUD)	-	
2249	KERR SUBSTATION(BPA)	-	
2250	KAHLOTUS SUBSTATION	-	
2251	KITSAP SUBSTATION	1,414,030	
2252	LA GRANDE SUBSTATION	298,930	
2253	LANCASTER SUBSTATION(BPA)	618,215	

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

A	B	C	D
2254	LANE SUBSTATION	1,736,911	
2255	LANGLOIS SUBSTATION	-	
2256	LA PINE SUBSTATION	1,522,887	
2257	LIBBY POWERHOUSE	441,685	
2258	LEBANON SUBSTATION	164	
2259	LEXINGTON SUBSTATION	748,781	
2260	LOWER GRANITE POWERHOUSE	315,170	
2261	LIBBY SUBSTATION(BPA/FLATHEADELEC)	842,257	
2262	LIBBY SUBSTATION(BPA)	2,047,035	
2263	LITTLE GOOSE SUBSTATION	3,393,327	
2264	LITTLE GOOSE POWERHOUSE	700,638	
2265	LOOKOUT POINT SUBSTATION	17,902	
2266	LOWER MONUMENTAL POWERHOUSE	410,686	
2267	LOWER GRANITE SUBSTATION	1,193,200	
2268	LOWER MONUMENTAL SUBSTATION	2,492,970	
2269	LONGVIEW SUBSTATION	2,876,203	
2270	LOPEZ SUBSTATION(OPALCO)	18,020	
2271	LOPEZ ISLAND SUBSTATION(BPA)	580,937	
2272	LOST RIVER SUBSTATION	162,787	
2273	LYNCH CREEK SUBSTATION	121,887	
2274	MALIN SUBSTATION	6,813,050	
2275	MAYFIELD POWERHOUSE	12,509	
2276	MAPLETON SUBSTATION	60,489	
2277	MARION SUBSTATION	3,298,411	
2278	MCLOUGHLIN SUBSTATION	1,454,927	
2279	MCMINNVILLE SUBSTATION	236,654	
2280	MCNARY SUBSTATION	10,499,120	
2281	MCNARY POWERHOUSE	694,802	
2282	MERIDIAN SUBSTATION(PACIFICORP)	191,255	
2283	MIDWAY SUBSTATION(BPA)	3,395,922	
2284	MINIDOKA SUBSTATION	-	
2285	MARTIN CREEK SUBSTATION	354,159	
2286	MONROE SUBSTATION	2,082,882	
2287	MAUPIN SUBSTATION	227,947	
2288	MOSSYROCK SWITCHYARD	-	
2289	MOXEE SUBSTATION	325,252	
2290	MAPLE VALLEY SUBSTATION	4,781,134	
2291	MURRAY SUBSTATION	205,852	
2292	NASELLE SUBSTATION	414,464	
2293	NORTH BONNEVILLE SUBSTATION	1,600,907	
2294	NORTH BROOKINGS SUBSTATION	-	
2295	NELWAY SUBSTATION	14,885	
2296	NEWPORT SUBSTATION(INLAND POWER)	431	
2297	NORWAY SUBSTATION	-	
2298	NOXON CONSTRUCTION SUBSTATION	344,199	
2299	NARROWS SUBSTATION	75,170	
2300	OLYMPIA SUBSTATION	2,854,937	
2301	OREGON CITY SUBSTATION	157,851	
2302	OSTRANDER SUBSTATION	7,466,891	
2303	PASCO SUBSTATION	15,282	
2304	PAUL SUBSTATION	2,483,731	
2305	PENDLETON SUBSTATION	24,033	
2306	PEARL SUBSTATION	2,352,600	
2307	PILOT BUTTE SUBSTATION	-	
2308	PORT ANGELES SUBSTATION(BPA)	983,832	
2309	POMEROY SUBSTATION(BPA)	38,461	
2310	PONDEROSA SUBSTATION(BPA)	1,419,208	
2311	PORT ORFORD SUBSTATION	-	
2312	POTHOLES SUBSTATION	1,048,448	
2313	PRAIRIE SUBSTATION(WWP & KOOTENAI ELEC COOP)	-	
2314	PRIEST RIVER SUBSTATION(BPA)	-	
2315	RAVER SUBSTATION	5,031,539	
2316	RAYMOND SUBSTATION	21,198	
2317	REDMOND SUBSTATION(BPA)	2,055,289	
2318	REEDSPORT SUBSTATION (BPA)	383,203	
2319	RESTON SUBSTATION	199,819	
2320	ROSS HARMONY TRAINING SUBSTATION	165,651	
2321	RICHLAND SUBSTATION	189,035	

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A	B	C	D
2322 RINGOLD SUBSTATION	-		
2323 ROCKY REACH SUBSTATION	-		
2324 ROCKY REACH SWITCHYARD	-		
2325 ROGUE SUBSTATION	1,034,371		
2326 ROUNDUP SUBSTATION	128,345		
2327 ROSS SUBSTATION	875,027		
2328 RATTLESNAKE SUBSTATION(MPC)	134,239		
2329 ROUND VALLEY SUBSTATION	368,383		
2330 PUGET SOUND AREA OFFICE(INACTIVE. SEE NOTES)	-		
2331 PGE HEADQUARTERS(INNACTIVE. SEE NOTES)	-		
2332 PENDLETON AIRPORT(INACTIVE. SEE NOTES)	-		
2333 DOMINION PEAK BALD MOUNTAIN(INACTIVE. SEE NOTES)	-		
2334 SACAJAWEA SUBSTATION	1,070,686		
2335 SACHEEN SUBSTATION	656,899		
2336 SAND DUNES SUBSTATION	58,891		
2337 SALEM SUBSTATION (SALEM ELEC & BPA)	724,494		
2338 SANDPOINT SUBSTATION(BPA)	9,096		
2339 SANTIAM SUBSTATION	1,986,507		
2340 SAND SPRING COMPENSATION STATION	1,563,544		
2341 SATSOP SUBSTATION(BPA)	1,516,791		
2342 SICKLER SUBSTATION	2,606,077		
2343 SAND CREEK SUBSTATION	-		
2344 SHELTON SUBSTATION	2,037,500		
2345 SCHULTZ SUBSTATION	2,475,083		
2346 SILVER BOW SUBSTATION	-		
2347 SILVER CREEK SUBSTATION	786,672		
2348 SIFTON SUBSTATION	1,273,318		
2349 SLATT SUBSTATION	4,415,556		
2350 SNOHOMISH SUBSTATION	4,126,293		
2351 SNO-KING SUBSTATION	2,327,048		
2352 SPAR CANYON SUBSTATION	136,951		
2353 SOUTH TACOMA SUBSTATION	695,849		
2354 STEILACOOM SUBSTATION	97,941		
2355 ST. JOHNS SUBSTATION	396,944		
2356 SURPRISE LAKE SUBSTATION	80,458		
2357 SUMMER LAKE SUBSTATION	1,180,439		
2358 SUN HARBOR SUBSTATION	-		
2359 SWAN VALLEY SUBSTATION	664,906		
2360 SYCAN COMPENSATION STATION	1,524,686		
2361 TACOMA SUBSTATION	1,518,959		
2362 TAFT SUBSTATION	3,527,997		
2363 TAHKENITCH SUBSTATION	447,161		
2364 TARGHEE SUBSTATION	393,087		
2365 TARKIO SUBSTATION (SOLD)	-		
2366 THE DALLES SUBSTATION	197,038		
2367 THE DALLES FISHWAY HYDRO PLANT	-		
2368 THE DALLES POWERHOUSE	280,917		
2369 TETON SUBSTATION	371,374		
2370 TILLAMOOK SUBSTATION	448,464		
2371 TOLEDO SUBSTATION	74,274		
2372 TRENTWOOD SUBSTATION	403,852		
2373 TROUTDALE SUBSTATION(BPA)	3,995,391		
2374 TROY SUBSTATION	-		
2375 TROUTDALE SUBSTATION(PACIFICORP)	151,373		
2376 UNITY SUBSTATION(BPA)	266,885		
2377 USK SUBSTATION(BPA)	868,337		
2378 VALHALLA SUBSTATION	1,122,374		
2379 VANTAGE SUBSTATION	1,222,969		
2380 VANCOUVER SHIPYARD SUBSTATION	-		
2381 WALLA WALLA SUBSTATION(PACIFICORP)	16,384		
2382 WANAPUM SWITCHYARD	-		
2383 WAUNA SUBSTATION(CLATSKANIE CO PUD)	-		
2384 WALLA WALLA SUBSTATION(BPA)	764,283		
2385 WELLS SUBSTATION(DOUGLAS CO PUD)	-		
2386 WENDSON SUBSTATION	668,964		
2387 WESTSIDE SUBSTATION(BPA)	21,113		
2388 WHITE BLUFFS SUBSTATION	2,042,445		
2389 WINCHESTER SUBSTATION	-		

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	A	B	C	D
2390	WPPSS NO. 2 POWERHOUSE	-		
2391	WAUNA PAPER MILL	9,063		
2392	WARNER SUBSTATION	295,813		
2393	YAAK SUBSTATION	781,531		
2394	CALPINE SUBSTATION	438,289		
2395	COLUMBIA FALLS SUBSTATION - 230 KV YARD	207,916		
2396	BEAVER SUBSTATION (PGE)	85,273		
2397	SUBSTATION X	26,723		
2398	RED MOUNTAIN SUBSTATION	1,071,178		
2399	NAPAVINE SUBSTATION	978,522		
2400	NINE MILE SUBSTATION (FPLE)	435,069		
2401	EE CLOUSE SUBSTATION (KLICKITAT PUD)	46,921		
2402	COLUMBIA GENERATING STATION SUBSTATION (ENERGY NORTHWEST)	3,701,030		
2403	WAUTOMA SUBSTATION	3,806,507		
2404	NINE CANYON SUBSTATION (BENTON PUD)	781,138		
2405	MINT FARM SWITCHING STATION	191,295		
2406	MEAD SUBSTATION	-		
2407	FREDERICKSON GENERATING PLANT(FREDERICKSON POWER LP)	119,537		
2408	KENNEDY SUBSTATION	-		
2409	MILES CITY SUBSTATION	78,146		
2410	TUCANNON RIVER SUBSTATION	1,133,214		
2411	COLSTRIP SES	41,676		
2412	JONES CANYON SUBSTATION	2,480,996		
2413	SPRING CREEK SUBSTATION	713,253		
2414	DISCOVERY SUBSTATION (N. WASCO PUD)	111,507		
2415	WILSON RIVER SUBSTATION	5,855		
2416	ROCK CREEK SUBSTATION	962,960		
2417	KLONDIKE SCHOOLHOUSE SUBSTATION (IBERDOLA)	130,842		
2418	RIVER ROAD GENERATION PLANT SUBSTATION	66,035		
2419	BRASADA SUBSTATION (CENTRAL ELECTRIC COOPERATIVE)	606,534		
2420	WILLIS SUBSTATION (KPUD)	85,119		
2421	ENERGIZER SUBSTATION (KPUD)	109,893		
2422	WHITE CREEK SUBSTATION (KPUD)	29,645		
2423	WEISER SUBSTATION	7,809		
2424	WINE COUNTRY SUBSTATION	1,081,885		
2425	JOHN DAY SUBSTATION - 230 YARD	971,128		
2426	CENTRAL FERRY SUBSTATION	334,651		
2427	BETTAS ROAD SUBSTATION	701,214		
2428	CATTLE CREEK SWITCHING STATION	1,282,675		
2429	DOOLEY SUBSTATION (WINDY POINT)	106,482		
2430	KNIGHT SUBSTATION	1,631,784		
2431	LINDEN COLLECTOR SUBSTATION	110,426		
2432	SHEPERDS SOUTH SUBSTATION	50,029		
2433	PHALEN GULCH SUBSTATION (PSE)	101,881		
2434	SILVERADO SUBSTATION (CLALLAM CO. PUD)	875		
2435	DAY MT. SPOKANE	124,716		
2436	MORROW FLAT	1,159,618		
2437	MULLAN SUBSTATION (PGE)	118,878		
2438	QUENETT CREEK SUBSTATION	927,268		
2439	ALBANY-EUGENE NO 1	417,035		
2440	EUGENE-ALDERWOOD NO 1	417,035		
2441	BELL-NOXON FIBER SYSTEM	10,839		
2442	BENTON-FRANKLIN NO 1	15,180		
2443	BIG EDDY-DE MOSS NO 1	-		
2444	BIG EDDY-TROUTDALE NO 1	63,155		
2445	BOARDMAN-ALKALI NO 1	-		
2446	CARLTON-SHERWOOD NO 1	-		
2447	CELILO-SYLMAR NO 1	-		
2448	CHEHALIS-RAYMOND NO 1	-		
2449	CHIEF JOSEPH-SNOHOMISH NO 3	-		
2450	COLUMBIA FALLS-KALISPELL NO 1	31,810		
2451	COVINGTON-BETTAS ROAD NO 1	402,607		
2452	COVINGTON-MUNRO FIBER SYSTEM(INACTIVE SEE NOTES)	1,383,291		
2453	CUSTER-INGLEDOW NO 1	190,843		
2454	ELLENSBURG-MOXEE NO 1	254,038		
2455	FOREST GROVE-MCMINNVILLE NO 1	178,098		
2456	FRANKLIN-MUNRO FIBER SYSTEM	18,991,075		
2457	GRAND COULEE-BELL NO 5	22,276		

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	A	B	C	D
2458	GRIZZLY-CAPTAIN JACK NO 1	-		
2459	GRIZZLY-SUMMER LAKE NO 1	-		
2460	WAUTOMA-KNIGHT NO 1	19,979		
2461	HOOD RIVER-THE DALLES NO 1	95,770		
2462	JOHN DAY-GRIZZLY NO 1	-		
2463	KEELER-OREGON CITY NO 2	134,199		
2464	KEELER-FOREST GROVE NO 1	3,269		
2465	LA PINE-FORT ROCK NO 1	-		
2466	LEXINGTON-LONGVIEW NO 1	316,226		
2467	LIBBY-CONKELLEY NO 1	-		
2468	LOWER MONUMENTAL-HANFORD NO 1	53,475		
2469	LOWER MONUMENTAL-MCNARY NO 1	7,729		
2470	MCNARY-HORSE HEAVEN NO 1	70,204		
2471	MIDWAY-MOXEE NO 1	33,830		
2472	MIDWAY-POTHOLES NO 1	-		
2473	MONROE-CUSTER NO 1	122,940		
2474	DRISCOLL-NASELLE NO 1	274,886		
2475	NASELLE-TARLETT NO 1	37,122		
2476	NORTH BONNEVILLE-MIDWAY NO 1	3,745		
2477	NORTH BONNEVILLE-TROUTDALE NO 1	-		
2478	NORTH BONNEVILLE-TROUTDALE NO 2	281,830		
2479	NOXON-LIBBY NO 1	354,839		
2480	OLYMPIA-ABERDEEN FIBER SYSTEM	989,884		
2481	OLYMPIA-GRAND COULEE NO 1	898,339		
2482	OLYMPIA-KITSAP NO 3 (SEE NOTES)	66,850		
2483	OLYMPIA-ST CLAIR NO 1	1,318,835		
2484	PILOT BUTTE-LA PINE NO 1	124,765		
2485	REEDSPORT-TAHKENITCH FIBER SYSTEM	193,800		
2486	REEDSPORT-FAIRVIEW NO 1	314,896		
2487	ROSS-MALIN FIBER SYSTEM	20,365,237		
2488	ROSS-RIVERGATE NO 1	98,087		
2489	SACAJAWEA TAP TO LOWER MONUMENTAL-MCNARY NO 1	8,312,639		
2490	SANTIAM-TOLEDO NO 1	-		
2491	SCHULTZ-ECHO LAKE NO 1	1,237,435		
2492	COVINGTON-BELL FIBER SYSTEM	18,377,621		
2493	SHELTON-FAIRMOUNT NO 1	49,104		
2494	SHELTON-KITSAP NO 2	399,843		
2495	SICKLER-SCHULTZ NO 1	311,816		
2496	SNO-KING-MAPLE VALLEY NO. 2	9,690		
2497	ST JOHNS-KEELER NO 2	121,700		
2498	SWAN VALLEY-TETON NO 1	94,591		
2499	TAFT-HOT SPRINGS NO 1	-		
2500	WENDSON-TAHKENITCH NO 2	514,470		
2501	SWAN VALLEY-TETON NO 2	94,531		
2502	KEELER-ALVEY FIBER SYSTEM	8,601,493		
2503	MT SI-TANNER NO 1	2,223,299		
2504	BPA SYSTEM-LINES (UNKNOWN)	144,773		
2505	KEELER-COVINGTON FIBER SYSTEM	18,099,084		
2506	NOXON-KALISPELL FIBER SYSTEM	11,538,640		
2507	ROSS-FRANKLIN FIBER SYSTEM	36,754,032		
2508	SANTIAM-BETHEL NO 1	206,955		
2509	OLYMPIA-PORT ANGELES FIBER SYSTEM	6,850,457		
2510	MARION-SANTIAM FIBER SYSTEM	1,039,832		
2511	MCNARY-JOHN DAY NO 2	5,493,099		
2512	HAUSER-NORTH BEND MAINTENANCE HQ FIBER SYSTEM	52,648		
2513	BELLINGHAM-CUSTER FIBER SYSTEM	1,445,912		
2514	NOXON-TAFT FIBER SYSTEM	5,718,682		
2515	SCHULTZ-WAUTOMA NO 1	18,029,963		
2516	WAUTOMA-COLUMBIA FIBER SYSTEM	5,084,288		
2517	SHELTON-SOUTH BREMERTON NO 1	399,843		
2518	ECHO LAKE-MONROE-SNOHOMISH FIBER SYSTEM	4,908,397		
2519	FIDALGO-LOPEZ ISLAND NO 5	95,100		
2520	MCNARY-COYOTE SPRINGS NO 1	1,519,037		
2521	LOPEZ ISLAND-DECATUR NO 1	262,113		
2522	RAVER-ECHO LAKE FIBER SYSTEM	7,294,724		
2523	HANFORD-WAUTOMA NO 1	1,770		
2524	HOT SPRINGS-GARRISON FIBER SYSTEM	9,027,301		
2525	COVINGTON-MAPLE VALLEY FIBER SYSTEM	2,941,491		

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A	B	C	D
2526	PEARL-TROUTDALE FIBER SYSTEM	4,093,153	
2527	SPRING CREEK-WINE COUNTRY NO 1	50,782	
2528	ROCK CREEK-JOHN DAY NO 1	1,994	
2529	COLUMBIA GENERATING STATION-ASHE FIBER SYSTEM	126,744	
2530	MAPLE VALLEY-SNOHOMISH FIBER SYSTEM	732,999	
2531	SNO-KING-SNOHOMISH FIBER SYSTEM (DO NOT USE, SEE NOTES)	2,949,281	
2532	HORN BUTTE TAP TO TOWER ROAD-ALKALI NO 1	7,512	
2533	WALLA WALLA-WALLA WALLA (PACW) NO 1	163,462	
2534	GRAND COULEE 115KV-GRAND COULEE RS FIBER SEG	249,005	
2535	FRANKLIN-HATWAI FIBER SYSTEM	7,344,749	
2536	BELL-BOUNDARY FIBER SYSTEM	6,260,543	
2537	FOREST GROVE-TILLAMOOK NO 1	14,894	
2538	BIG EDDY-KNIGHT NO 1	617,427	
2539	BIG EDDY-WAUTOMA FIBER SYSTEM	9,286,204	
2540	SWAN VALLEY-SWAN VALLEY RS FIBER SYSTEM	192,592	
2541	MINIDOKA POWERHOUSE-MINIDOKA RADIO STATION FIBER SYSTEM	171,931	
2542	BELL-BOUNDARY NO 1 (ML SPOKANE CO)	3,135,434	
2543	BELL-BOUNDARY NO 1 (ML PEND OREILLE CO)	3,183,631	
2544	FREDERICKSON GENERATION-SOUTH TACOMA FIBER SYSTEM	619,854	
2545	KALISPELL-HOT SPRINGS FIBER OPTIC SYSTEM	7,270,066	
2546	TAFT-BALD MOUNTAIN FIBER OPTIC SYSTEM	6,151,579	
2547	GRAND COULEE-CRESTON NO 1 (GRANT CO)	24,085	
2548	LOWER GRANITE-HATWAI NO 1 (WHITMAN CO)	4,970,991	
2549	LOWER GRANITE-HATWAI NO 1 (NEZ PERCE CO)	944,336	
2550	BIG EDDY-KNIGHT NO 1 (ML WASON CO)	1,683,459	
2551	BIG EDDY-KNIGHT NO 1 (ML KLIKTAT CO)	2,640,705	
2552	FRANKLIN-HATWAI FIBER SYSTEM (ML GARFILED CO)	583,943	
2553	ALDER METERING POINT	-	
2554	ANTELOPE SUBSTATION(WASCO ELECTRIC)	22,809	
2555	ARTONDALE SUBSTATION	38,647	
2556	BANNACK SUBSTATION	14,276	
2557	BROOKDALE SUBSTATION(ELMHURSTMUTUAL PWR & LIGHT)	44,058	
2558	BPA SYSTEM-METERS (UNKNOWN)	-	
2559	BROADVIEW SUBSTATION	36,126	
2560	CASCADE STEEL SUBSTATION	28,301	
2561	CHILOQUIN SUBSTATION	-	
2562	CLINTON SUBSTATION (SOLD)	-	
2563	FRENCHMAN SPRINGS SUBSTATION	-	
2564	FRANZ HOLMES SUBSTATION	2,341	
2565	GIG HARBOR SUBSTATION	46,027	
2566	HAAKENSON SUBSTATION	24,891	
2567	JOHN CURTIS SUBSTATION	68,395	
2568	MILLER SUBSTATION(LAKEVIEW LIGHT & PWR)	65,777	
2569	LAKE BAY SUBSTATION	119,816	
2570	LAKE GROVE SUBSTATION	61,165	
2571	LODHOLM SUBSTATION	132,402	
2572	RYANS RIDGE RADIO(INACTIVE. SEE NOTES)	-	
2573	RAFT RIVER ELECTRIC CO-OP, INC., HEADQUARTERS	-	
2574	MAYFIELD SWITCHYARD	92,804	
2575	MCCULLOUGH SUBSTATION	59,703	
2576	MINIDOKA POWERHOUSE	376,461	
2577	MACKS INN SUBSTATION	40,202	
2578	OHOP SUBSTATION	170,160	
2579	OLNEY METERING POINT	-	
2580	PALISADES POWERHOUSE	457,032	
2581	PORT TOWNSEND SUBSTATION	40,728	
2582	PURDY SUBSTATION	46,473	
2583	RAINIER SUBSTATION	3,384	
2584	RED MOUNTAIN SUB (BENTON REA)- NEVER BUILT-OBS	391,394	
2585	STATELINE SUBSTATION	-	
2586	TYEE SUBSTATION	88,101	
2587	VAUGHN SUBSTATION	113,732	
2588	WARDEN POLE METERING POINT	-	
2589	LYN PUMPS PUMPING PLANT (UNKNOWN)	-	
2590	CONDON WIND SUBSTATION(SEAWEST)	17,366	
2591	HERMISTON BUTTE (UEC)	2,915	
2592	MINTER SUBSTATION (PENINSULA)	100,179	
2593	SHANO SUBSTATION	-	

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	A	B	C	D
2594	GRAZZINI SUBSTATION	69,978		
2595	HAYDEN SUBSTATION	4,128		
2596	ADEL RADIO STATION	1,153,729		
2597	ALBION BUTTE RADIO STATION	2,818,048		
2598	ALVEY HILL RADIO STATION(INACTIVE)	-		
2599	APPLEGATE BUTTE RADIO STATION	1,813,502		
2600	ASHTON HILL RADIO STATION	494,873		
2601	AUGSPURGER MOUNTAIN RADIO STATION	654,931		
2602	BALD MOUNTAIN RADIO STATION	3,808,222		
2603	BALD PEAK RADIO STATION	41,409		
2604	BIDDLE BUTTE RADIO STATION	67,771		
2605	BELL PASSIVE REPEATER SITE	-		
2606	BEVERLY RADIO STATION	164,036		
2607	BLACKTAIL PEAK RADIO STATION	1,018,291		
2608	BLACK MOUNTAIN RADIO STATION	140,878		
2609	BLUE RIDGE RADIO STATION	452,159		
2610	BLYN RADIO STATION	201,541		
2611	BOISE TOWER RADIO STATION	-		
2612	BOISTFORT PEAK RADIO STATION(WEYERHOUSER)	55,063		
2613	BPA SYSTEM-MICROWAVE &RADIO STATIONS	117,089		
2614	BRADFORD ISLAND RADIO STATION	58,502		
2615	BIRCH CREEK RADIO STATION	16,825		
2616	BUCK BUTTE RADIO STATION	1,578,091		
2617	BURNS RADIO STATION	194,129		
2618	CAPE BLANCO RADIO STATION(INACTIVE. SEE NOTES)	-		
2619	CAPITOL PEAK RADIO STATION(BPA)	783,206		
2620	CAPE BLANCO RADIO STATION(US COAST GUARD)	-		
2621	CABBAGE HILL RADIO STATION	84,401		
2622	COBURG RADIO STATION	283,213		
2623	CHEHALIS RADIO STATION	119,932		
2624	COYOTE HILLS RADIO STATION	1,323,870		
2625	CULDESAC RADIO STATION	12,970		
2626	DAVENPORT RADIO STATION	100,876		
2627	DECATUR WEST RADIO STATION	-		
2628	INDIAN MOUNTAIN RADIO STATION	1,781,993		
2629	DITTMER BPA SYSTEM CONTROL CENTER	39,865,335		
2630	DEVILS MOUNTAIN RADIO STATION	316,863		
2631	DEL RIO RADIO STATION	895,961		
2632	DRISCOLL PASSIVE REPEATER SITE	-		
2633	DWORSHAK DAM PASSIVE REPEATERSITE	332,320		
2634	EASTON RADIO STATION	399,978		
2635	EAST BUTTE RADIO STATION	-		
2636	ELLIS RADIO STATION	-		
2637	FLATIRON PASSIVE REPEATER SITE	-		
2638	FOSTER CREEK RADIO STATION	647,575		
2639	FOX MOUNTAIN RADIO STATION	-		
2640	GARDINER RIDGE RADIO STATION(BPA)	-		
2641	GRAND COULEE RADIO STATION	1,050,093		
2642	GRAND COULEE PASSIVE REPEATERSITE	14,885		
2643	GOODNOE HILLS RADIO STATION(RETIRED)	-		
2644	GOLD CREEK PASSIVE REPEATER SITE	-		
2645	GRASSY MOUNTAIN RADIO STATION	-		
2646	GREEN MOUNTAIN PASSIVE REPEATER SITE	13,469		
2647	GRANITE MOUNTAIN RADIO STATION	1,029,593		
2648	GROUSE PEAK RADIO STATION	372,883		
2649	GARDINER RIDGE RADIO STATION(CENTRAL LINCOLN PUD)	-		
2650	GRIZZLY MOUNTAIN RADIO STATION	1,628,175		
2651	GOODWIN PEAK RADIO STATION	390,889		
2652	HALL RIDGE RADIO STATION	357,692		
2653	HAMPTON BUTTE RADIO STATION	275,880		
2654	HAPPY CAMP RADIO STATION(PG&E)	484,739		
2655	HAYSTACK BUTTE RADIO STATION	2,352,411		
2656	HEYBROOK RADIO STATION(RETIRED. SEE NOTES)	-		
2657	HUNGRY HORSE RADIO STATION	662,373		
2658	HOLCOMB RADIO STATION	270,971		
2659	HAPPY CAMP RADIO STATION(TANC)	52,708		
2660	HORSE ROCK RADIO STATION	-		
2661	HOT SPRINGS PASSIVE REPEATER SITE	-		

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

A	B	C	D
2662 IONA BUTTE RADIO STATION	191		
2663 JACK MOUNTAIN RADIO STATION	-		
2664 KAHLOTUS RADIO STATION	2,032,977		
2665 KENNEWICK RADIO STATION	2,393,693		
2666 KENYON MOUNTAIN RADIO STATION	477,621		
2667 KITSAP PASSIVE REPEATER SITE	-		
2668 KITITITAS RADIO STATION	-		
2669 KING LAKE RADIO STATION	-		
2670 LINES CREEK RADIO STATION	3,564,367		
2671 LAKESIDE RADIO STATION	(0)		
2672 LENEVE RADIO STATION	5,110		
2673 LOWELL BUTTE RADIO STATION	1,855,300		
2674 LOCUST HILL RADIO STATION	-		
2675 LOOKOUT MOUNTAIN RADIO STATION	2,613,311		
2676 MALAGA RADIO STATION	1,047,995		
2677 MALONEY RIDGE RADIO STATION	-		
2678 MARION PASSIVE REPEATER SITE	-		
2679 MARYS PEAK RADIO STATION	231,971		
2680 MALIN PASSIVE REPEATER S SITE	13,184		
2681 MT. HEBO RADIO STATION	261,985		
2682 MT. EMILY RADIO STATION	64,571		
2683 MERRITT RADIO STATION	1,277,506		
2684 METALINE RADIO STATION	2,521,692		
2685 MEGLER RADIO STATION	280,472		
2686 MICA PEAK RADIO STATION	2,748,717		
2687 MILLER PEAK RADIO STATION	2,771,812		
2688 MINIDOKA RADIO STATION	195,039		
2689 MT. SPOKANE RADIO STATION(AVISTA)	1,153,982		
2690 NASELLE RADIO STATION	-		
2691 NASELLE RIDGE RADIO STATION	874,948		
2692 NORTH BEND RADIO STATION	842,173		
2693 NOTI RADIO STATION	495,586		
2694 NOXON PASSIVE REPEATER SITE	-		
2695 NOXON RADIO STATION	1,850,117		
2696 ODELL BUTTE RADIO STATION	970,199		
2697 OLYMPIA PASSIVE REPEATER SITE	-		
2698 OSTRANDER PASSIVE REPEATER SITE	-		
2699 PATRICKS KNOB RADIO STATION	1,737,468		
2700 PINE MOUNTAIN RADIO STATION	1,646,561		
2701 PLAINS PASSIVE REPEATER SITE	-		
2702 PLUM RADIO STATION	50,745		
2703 POMEROY RADIO STATION	2,648,996		
2704 PROSPECT HILL RADIO STATION	1,541,586		
2705 RAINIER RADIO STATION	868,685		
2706 RAYMOND RADIO STATION	238,453		
2707 RAYMOND HILL RADIO STATION	491,694		
2708 RELAY RIDGE RADIO STATION	-		
2709 ROCKY RADIO STATION [RET]	12,681		
2710 CYRUS NOE RADIO STATION	94,484		
2711 ROCKY RIDGE RADIO STATION	3,094,479		
2712 ROCKDALE PASSIVE REPEATER N1 SITE	-		
2713 ROOSEVELT RADIO STATION	1,068,234		
2714 ROSS RADIO STATION	84,886		
2715 MALIN REFLECTOR NORTH(INACTIVE. SEE NOTES	-		
2716 MALIN REFLECTOR SOUTH(INACTIVE. SEE NOTES)	-		
2717 SACHEEN PASSIVE REPEATER SITE	14,885		
2718 SALEM PASSIVE REPEATER SITE	10,266		
2719 SAWTELL RADIO STATION	210,327		
2720 SCOTT MOUNTAIN RADIO STATION	396,503		
2721 SEATTLE RADIO STATION	3,908		
2722 SHANIKO RADIO STATION	1,052,269		
2723 SIGNAL HILL PASSIVE REPEATER SITE	-		
2724 SICKLER PASSIVE REPEATER SITE	14,885		
2725 SKYROCKET RADIO STATION	912,632		
2726 SOUTH MOUNTAIN RADIO STATION	425,725		
2727 SANDPOINT-BALDY RADIO STATION(BPA)	-		
2728 MT. SPOKANE RADIO STATION(BPA)	415,730		
2729 SQUAK MOUNTAIN RADIO STATION	102,244		

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

A	B	C	D
2730	STAMPEDE PASS RADIO STATION	144,785	
2731	SUNNYSIDE RADIO STATION	755,042	
2732	SWAN LAKE POINT RADIO STATION	1,970,587	
2733	SWAN VALLEY RADIO STATION	426,706	
2734	SCHMITZ MOUNTAIN PASSIVE REPEATER SITE	-	
2735	TACOMA RADIO STATION	2,242,178	
2736	TACOMA PASSIVE REPEATER SITE	-	
2737	TAFT PASSIVE REPEATER SITE	348,619	
2738	TEAKEAN BUTTE RADIO STATION	3,232,120	
2739	TEANAWAY RADIO STATION	294,566	
2740	THOMPSON FALLS RADIO STATION	471,935	
2741	TEAKETTLE PASSIVE REPEATER SITE	-	
2742	TUNK MOUNTAIN RADIO STATION	1,377,721	
2743	USK PASSIVE REPEATER SITE	14,885	
2744	VALHALLA PASSIVE REPEATER SITE	14,885	
2745	WASCO RADIO STATION	855,091	
2746	WATERVILLE RADIO STATION	822,730	
2747	WEST PORTLAND RADIO STATION	304,200	
2748	WINDY DEVIL RADIO STATION	70,915	
2749	WOLF MOUNTAIN RADIO STATION	1,596,696	
2750	WHISKEY RIDGE RADIO STATION	18,065	
2751	ZONOLITE PASSIVE REPEATER SITE	-	
2752	MOBILE COMMUNICATIONS (UNKNOWN)	-	
2753	ELLIS MOUNTAIN RADIO STATION	24,271	
2754	BENNETT MOUNTAIN RADIO STATION	89,534	
2755	ALBENI FALLS RADIO STATION (USCE)	503,207	
2756	WALKER MOUNTAIN RADIO STATION	1,874,997	
2757	CAPE BLANCO RADIO STATION (BPA)	902,315	
2758	SWAN VALLEY PASSIVE REPEATER SITE	152,951	
2759	RUBY MOUNTAIN	2,524,596	
2760	BEARMOUTH RADIO STATION	2,147,395	
2761	ALBERTON RADIO STATION	3,475,916	
2762	ALVEY MAINTENANCE HEADQUARTERS	844,250	
2763	ASHE MAINTENANCE HEADQUARTERS	2,401,354	
2764	THE DALLES MAINTENANCE HEADQUARTERS	4,822,997	
2765	BELL MAINTENANCE HEADQUARTERS	6,896,452	
2766	BPA SYSTEM-NON ELECTRIC PLANT& MISC	95,490,482	
2767	BPA SYSTEM (UNKNOWN)	14,082,800	
2768	BURLEY MAINTENANCE HEADQUARTERS	57,779	
2769	CELILO MAINTENANCE HEADQUARTERS	21,287	
2770	CHEMAWA MAINTENANCE HEADQUARTERS	78,820	
2771	CHEHALIS MAINTENANCE HEADQUARTERS	79,987	
2772	FOLSOM CONTROL CENTER (CAL ISO) (UNKNOWN)	-	
2773	COVINGTON MAINTENANCE HEADQUARTERS	769,287	
2774	CUSTER MAINTENANCE HEADQUARTERS	724,085	
2775	EASTERN CONTROL CENTER	1,063,764	
2776	EAST BURLEY STORAGE YARD	-	
2777	EUGENE C. STARR COMPLEX	2,799,241	
2778	FRANKLIN MAINTENANCE HEADQUARTERS	233,605	
2779	GRAND COULEE MAINTENANCE BUILDING	629,567	
2780	GARRISON MAINTENANCE HEADQUARTERS	158,654	
2781	IDAHO FALLS DISTRICT OFFICE AND MAINTENANCE HEADQUARTERS	4,447,679	
2782	KALISPELL MAINTENANCE HEADQUARTERS	10,011,472	
2783	LEWISTON MAINTENANCE HEADQUARTERS	148,841	
2784	LONGVIEW MAINTENANCE HEADQUARTERS	356,217	
2785	LONGVIEW ANNEX I	2,885	
2786	LONGVIEW ANNEX II	-	
2787	MCNARY MAINTENANCE HEADQUARTERS	9,500,925	
2788	MALIN MAINTENANCE HEADQUARTERS	6,622,732	
2789	MORO UHV MECHANICAL TEST SITE	-	
2790	MUNRO BPA SYSTEM CONTROL CENTER	47,643,288	
2791	NORTH BEND MAINTENANCE HEADQUARTERS	2,426,656	
2792	OLYMPIA MAINTENANCE HEADQUARTERS	6,562,206	
2793	PASCO MAINTENANCE HEADQUARTERS	196,041	
2794	BONNEVILLE BUILDING PORTLAND	-	
2795	PORTLAND INTERNATIONAL AIRPORT HANGAR	1,145,576	
2796	BPA HEADQUARTERS BUILDING	94,536	
2797	PACIFIC GAS AND ELECTRIC OPERATIONS CENTER	4,109	

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BP-22 Rate Case Initial Proposal Segmentation Details

	A	B	C	D
2798	ROSS AMPERE BUILDING	15,085,286		
2799	ROSS CONSTRUCTION AND SERVICES BUILDING	9,832,115		
2800	EASTSIDE SYSTEM CONTROL CENTER(PSE)	-		
2801	REDMOND MAINTENANCE HEADQUARTERS	2,976,839		
2802	REDMOND BPA HANGAR SITE	1,348,223		
2803	ROSS EHV LABORATORY	603,409		
2804	PBL ROSS EMERGENCY SCHEDULINGCENTER (ESC)	57,571		
2805	ROSS MAINTENANCE HEADQUARTERS	23,256,611		
2806	ROSS COMPLEX	60,125,404		
2807	ROSS WAREHOUSE	5,705,025		
2808	SNAKE RIVER AREA OFFICE(INACTIVE. SEE NOTES)	-		
2809	SICKLER MAINTENANCE HEADQUARTERS	1,063,379		
2810	SCHULTZ MAINTENANCE HEADQUARTERS	2,704,238		
2811	SEVEN MILE HILL METEOROLOGICAL TOWER	-		
2812	SNOHOMISH MAINTENANCE HEADQUARTERS	1,647,432		
2813	SNOHOMISH CO. PUD DISPATCH CENTER	-		
2814	SUMMER LAKE HOUSING	143,243		
2815	THE DALLES OPERATING DISTRICTHEADQUARTERS	26,595		
2816	WALLA WALLA U.S. CORPS OF ENGINEERS HEADQUARTERS	-		
2817	TWO PARK PLACE	-		
2818	IDAHO FALLS STORAGE YARD	380,162		
2819	SPOKANE HANGAR	1,705,354		
2820	NEKITPE MAINTENANCE HEADQUARTERS	17,273,443		
2821	KEELER MAINTENANCE HEADQUARTERS	846,845		
2822	MUNRO SCHEDULING CENTER	1,262,631		
2823	Total General Plant	<u>1,182,867,063</u>		

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

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Appendix B

BP-22 Initial Proposal Multi-Segmented Facilities Summary

	A	B	C	D	E
	Transmission Lines	Investment (\$)	O&M (\$)	Multi %	Segment
1	BUCKLEY-GRIZZLY NO 1	7,514,539	10,373	43%	Network
2	BUCKLEY-GRIZZLY NO 1	9,961,133	13,751	57%	Southern Intertie
3	BUCKLEY-GRIZZLY NO 1	17,475,672	24,124	100%	Total
4	BUCKLEY-MARION NO 1	20,351,214	16,594	50%	Network
5	BUCKLEY-MARION NO 1	20,351,214	16,594	50%	Southern Intertie
6	BUCKLEY-MARION NO 1	40,702,428	33,187	100%	Total
7	BUCKLEY-MARION NO 1 (ML CLACKAMAS CO)	752,032	0	50%	Network
8	BUCKLEY-MARION NO 1 (ML CLACKAMAS CO)	752,032	0	50%	Southern Intertie
9	BUCKLEY-MARION NO 1 (ML CLACKAMAS CO)	1,504,065	0	100%	Total
10	BUCKLEY-MARION NO 1 (ML MARION CO)	322,300	0	50%	Network
11	BUCKLEY-MARION NO 1 (ML MARION CO)	322,300	0	50%	Southern Intertie
12	BUCKLEY-MARION NO 1 (ML MARION CO)	644,600	0	100%	Total
13	COUGAR-HOLDEN CREEK NO 1	643,374	7,955	21%	Generation Integration
14	COUGAR-HOLDEN CREEK NO 1	2,442,582	30,201	79%	Network
15	COUGAR-HOLDEN CREEK NO 1	3,085,955	38,156	100%	Total
16	COYOTE SPRINGS-SLATT NO 1	2,352,112	7,554	88%	Network
17	COYOTE SPRINGS-SLATT NO 1	328,931	1,056	12%	Southern Intertie
18	COYOTE SPRINGS-SLATT NO 1	2,681,042	8,611	100%	Total
19	GREEN PETER-LEBANON NO 1	357,224	5,911	35%	Generation Integration
20	GREEN PETER-LEBANON NO 1	666,893	11,034	65%	Network
21	GREEN PETER-LEBANON NO 1	1,024,116	16,945	100%	Total
22	GRIZZLY-SUMMER LAKE NO 1	14,204,156	14,036	43%	Network
23	GRIZZLY-SUMMER LAKE NO 1	18,828,765	18,606	57%	Southern Intertie
24	GRIZZLY-SUMMER LAKE NO 1	33,032,920	32,642	100%	Total
25	GRIZZLY-SUMMER LAKE NO 1 (CROOK CO)	108,228	0	43%	Network
26	GRIZZLY-SUMMER LAKE NO 1 (CROOK CO)	143,465	0	57%	Southern Intertie
27	GRIZZLY-SUMMER LAKE NO 1 (CROOK CO)	251,694	0	100%	Total
28	GRIZZLY-SUMMER LAKE NO 1 (DESCHUTES CO)	127,891	0	43%	Network
29	GRIZZLY-SUMMER LAKE NO 1 (DESCHUTES CO)	169,530	0	57%	Southern Intertie
30	GRIZZLY-SUMMER LAKE NO 1 (DESCHUTES CO)	297,420	0	100%	Total
31	GRIZZLY-SUMMER LAKE NO 1 (LAKE CO)	255,806	0	43%	Network
32	GRIZZLY-SUMMER LAKE NO 1 (LAKE CO)	339,092	0	57%	Southern Intertie
33	GRIZZLY-SUMMER LAKE NO 1 (LAKE CO)	594,897	0	100%	Total
34	HILLS CREEK-LOOKOUT POINT NO 1	315,586	8,260	19%	Generation Integration
35	HILLS CREEK-LOOKOUT POINT NO 1	1,318,347	34,505	81%	Network
36	HILLS CREEK-LOOKOUT POINT NO 1	1,633,934	42,764	100%	Total
37	ICE HARBOR-FRANKLIN NO 2	15,726	24	3%	Generation Integration
38	ICE HARBOR-FRANKLIN NO 2	554,825	831	97%	Network
39	ICE HARBOR-FRANKLIN NO 2	570,551	854	100%	Total
40	ICE HARBOR-FRANKLIN NO 3	133,963	83	9%	Generation Integration

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BP-22 Initial Proposal Multi-Segmented Facilities Summary

	A	B	C	D	E
	Transmission Lines	Investment (\$)	O&M (\$)	Multi %	Segment
41	ICE HARBOR-FRANKLIN NO 3	1,331,565	823	91%	Network
42	ICE HARBOR-FRANKLIN NO 3	1,465,528	906	100%	Total
43	MARION-ALVEY NO 1	6,046,722	15,134	50%	Generation Integration
44	MARION-ALVEY NO 1	6,046,722	15,134	50%	Network
45	MARION-ALVEY NO 1	12,093,444	30,268	100%	Total
46	SLATT-JOHN DAY NO 1	4,358,495	29,048	93%	Generation Integration
47	SLATT-JOHN DAY NO 1	328,108	2,187	7%	Network
48	SLATT-JOHN DAY NO 1	4,686,603	31,234	100%	Total
49	SLATT-JOHN DAY NO 1 ML GILLIAM CO	251,354	0	93%	Network
50	SLATT-JOHN DAY NO 1 ML GILLIAM CO	18,922	0	7%	Southern Intertie
51	SLATT-JOHN DAY NO 1 ML GILLIAM CO	270,276	0	100%	Total
49	SLATT-JOHN DAY NO 1 ML SHERMAN CO	187,309	0	93%	Network
52	SLATT-JOHN DAY NO 1 ML SHERMAN CO	14,101	0	7%	Southern Intertie
53	SLATT-JOHN DAY NO 1 ML SHERMAN CO	201,410	0	100%	Total
46	Grouse Creek-Tecoma Transmission Lines & Substation	1,919,106	0	94%	Network
54	Grouse Creek-Tecoma Transmission Lines & Substation	121,332	0	6%	Utility Delivery
55	Grouse Creek-Tecoma Transmission Lines & Substation	2,040,437	0	100%	Total

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BP-22 Initial Proposal Multi-Segmented Facilities Summary

	A	B	C	D	E
	Transmission Lines	Investment (\$)	O&M (\$)	Multi %	Segment
	Transmission Stations	Investment (\$)	O&M (\$)	Multi %	Segment
55	ACTON SUBSTATION	197,084	17,201	82%	Network
56	ACTON SUBSTATION	43,859	3,828	18%	Utility Delivery
57	ACTON SUBSTATION	240,943	21,029	100%	Total
56	ADDY SUBSTATION	10,523,347	102,802	90%	Network
58	ADDY SUBSTATION	1,226,472	11,981	10%	Unsegmented
59	ADDY SUBSTATION	11,749,820	114,783	100%	Total
60	ALBANY SUBSTATION	14,281,668	139,195	88%	Network
61	ALBANY SUBSTATION	1,938,603	18,894	12%	Utility Delivery
62	ALBANY SUBSTATION	16,220,270	158,089	100%	Total
63	ALBENI FALLS SUBSTATION	365,644	5,882	25%	Generation Integration
64	ALBENI FALLS SUBSTATION	1,096,932	17,647	75%	Network
65	ALBENI FALLS SUBSTATION	1,462,575	23,529	100%	Total
66	ALCOA SUBSTATION	9,479,422	226,115	95%	Network
67	ALCOA SUBSTATION	485,258	11,575	5%	Unsegmented
68	ALCOA SUBSTATION	9,964,679	237,690	100%	Total
69	ALVEY SUBSTATION	61,635,915	292,206	88%	Network
70	ALVEY SUBSTATION	8,612,051	40,828	12%	Southern Intertie
71	ALVEY SUBSTATION	70,247,966	333,035	100%	Total
72	ASHE SUBSTATION	3,865,698	47,854	8%	Generation Integration
73	ASHE SUBSTATION	42,294,790	523,574	92%	Network
74	ASHE SUBSTATION	46,160,489	571,428	100%	Total
75	BANDON SUBSTATION	4,471,249	71,203	84%	Network
76	BANDON SUBSTATION	841,114	13,394	16%	Utility Delivery
77	BANDON SUBSTATION	5,312,363	84,597	100%	Total
78	BIG EDDY SUBSTATION	4,053,297	23,615	4%	Generation Integration
79	BIG EDDY SUBSTATION	17,088,346	99,558	19%	Network
80	BIG EDDY SUBSTATION	71,089,186	414,172	77%	Southern Intertie
81	BIG EDDY SUBSTATION	92,230,829	537,345	100%	Total
82	BONNERS FERRY SUBSTATION	2,265,147	49,297	78%	Network
83	BONNERS FERRY SUBSTATION	636,101	13,844	22%	Utility Delivery
84	BONNERS FERRY SUBSTATION	2,901,248	63,140	100%	Total
85	BUCKLEY SUBSTATION	3,984,880	73,216	36%	Network
86	BUCKLEY SUBSTATION	7,135,715	131,107	64%	Southern Intertie
87	BUCKLEY SUBSTATION	11,120,594	204,323	100%	Total
87	BURBANK SUBSTATION	706,630	11,795	84%	Network
88	BURBANK SUBSTATION	126,063	2,104	15%	Utility Delivery
89	BURBANK SUBSTATION	11,348	189	1%	Unsegmented
90	BURBANK SUBSTATION	844,041	14,088	100%	Total

Appendix B

BP-22 Initial Proposal Multi-Segmented Facilities Summary

	A	B	C	D	E
	Transmission Lines	Investment (\$)	O&M (\$)	Multi %	Segment
91	BURNT WOODS SUBSTATION	753,476	7,893	56%	Network
92	BURNT WOODS SUBSTATION	602,039	6,307	44%	Utility Delivery
93	BURNT WOODS SUBSTATION	1,355,515	14,200	100%	Total
94	CASCADE LOCKS SUBSTATION	397,538	18,954	61%	Network
95	CASCADE LOCKS SUBSTATION	252,354	12,032	39%	Utility Delivery
96	CASCADE LOCKS SUBSTATION	649,892	30,986	100%	Total
91	CHIEF JOSEPH SUBSTATION	11,953,562	129,828	26%	Generation Integration
97	CHIEF JOSEPH SUBSTATION	33,108,693	359,595	72%	Network
98	CHIEF JOSEPH SUBSTATION	1,180,205	12,818	3%	Southern Intertie
99	CHIEF JOSEPH SUBSTATION	46,242,460	502,242	100%	Total
92	DAVIS CREEK SUBSTATION	73,632	1,194	14%	Network
93	DAVIS CREEK SUBSTATION	471,589	7,649	86%	Utility Delivery
94	DAVIS CREEK SUBSTATION	545,221	8,844	100%	Total
100	DIXIE SUBSTATION	405,202	9,625	55%	Network
101	DIXIE SUBSTATION	337,515	8,017	45%	Utility Delivery
102	DIXIE SUBSTATION	742,717	17,642	100%	Total
103	DRAIN SUBSTATION	3,032,451	33,580	90%	Network
104	DRAIN SUBSTATION	322,557	3,572	10%	Utility Delivery
105	DRAIN SUBSTATION	3,355,008	37,152	100%	Total
100	DWORSHAK SUBSTATION	4,678,622	33,459	18%	Generation Integration
106	DWORSHAK SUBSTATION	21,089,672	150,820	82%	Network
107	DWORSHAK SUBSTATION	25,768,294	184,278	100%	Total
108	FRANKLIN SUBSTATION	1,912,047	43,430	12%	Generation Integration
109	FRANKLIN SUBSTATION	14,509,959	329,575	88%	Network
110	FRANKLIN SUBSTATION	16,422,006	373,005	100%	Total
111	GARDINER SUBSTATION	608,586	20,012	66%	Network
112	GARDINER SUBSTATION	315,372	10,370	34%	Utility Delivery
113	GARDINER SUBSTATION	923,958	30,383	100%	Total
114	GARRISON SUBSTATION	60,902,565	573,955	69%	Network
115	GARRISON SUBSTATION	27,325,017	257,515	31%	Eastern Intertie
116	GARRISON SUBSTATION	88,227,582	831,470	100%	Total
114	GLADE SUBSTATION	290,287	6,509	45%	Network
115	GLADE SUBSTATION	326,212	7,315	50%	Utility Delivery
117	GLADE SUBSTATION	35,626	799	5%	Unsegmented
118	GLADE SUBSTATION	652,125	14,623	100%	Total
117	HARRISBURG SUBSTATION	4,893,940	22,787	96%	Network
119	HARRISBURG SUBSTATION	190,947	889	4%	Utility Delivery
120	HARRISBURG SUBSTATION	5,084,887	23,676	100%	Total
119	HOOD RIVER SUBSTATION	1,572,938	47,164	74%	Network
121	HOOD RIVER SUBSTATION	563,261	16,889	26%	Utility Delivery
122	HOOD RIVER SUBSTATION	2,136,199	64,053	100%	Total

Appendix B

BP-22 Initial Proposal Multi-Segmented Facilities Summary

	A	B	C	D	E
	Transmission Lines	Investment (\$)	O&M (\$)	Multi %	Segment
123	INTALCO SUBSTATION	12,648,560	271,508	64%	Network
124	INTALCO SUBSTATION	7,028,592	150,873	36%	DSI Delivery
125	INTALCO SUBSTATION	19,677,152	422,381	100%	Total
126	IONE SUBSTATION	819,297	18,035	86%	Network
127	IONE SUBSTATION	135,510	2,983	14%	Utility Delivery
128	IONE SUBSTATION	954,807	21,018	100%	Total
129	JOHN DAY SUBSTATION	15,250,418	193,088	29%	Generation Integration
130	JOHN DAY SUBSTATION	22,735,734	287,860	44%	Network
131	JOHN DAY SUBSTATION	14,145,389	179,097	27%	Southern Intertie
132	JOHN DAY SUBSTATION	52,131,541	660,045	100%	Total
133	LANGLOIS SUBSTATION	423,551	13,802	68%	Network
134	LANGLOIS SUBSTATION	203,884	6,644	32%	Utility Delivery
135	LANGLOIS SUBSTATION	627,435	20,446	100%	Total
133	LIBBY SUBSTATION(BPA)	3,099,164	83,238	31%	Generation Integration
136	LIBBY SUBSTATION(BPA)	7,060,560	189,635	69%	Network
137	LIBBY SUBSTATION(BPA)	10,159,724	272,873	100%	Total
138	LITTLE GOOSE SUBSTATION	17,018,720	39,364	20%	Generation Integration
139	LITTLE GOOSE SUBSTATION	68,074,878	157,456	80%	Network
140	LITTLE GOOSE SUBSTATION	85,093,598	196,820	100%	Total
141	LOOKOUT POINT SUBSTATION	1,109,929	7,240	25%	Generation Integration
142	LOOKOUT POINT SUBSTATION	3,329,786	21,720	75%	Network
143	LOOKOUT POINT SUBSTATION	4,439,715	28,961	100%	Total
144	LOWER GRANITE SUBSTATION	3,806,670	37,944	25%	Generation Integration
145	LOWER GRANITE SUBSTATION	11,420,010	113,832	75%	Network
146	LOWER GRANITE SUBSTATION	15,226,680	151,777	100%	Total
147	LOWER MONUMENTAL SUBSTATION	5,450,618	38,721	13%	Generation Integration
148	LOWER MONUMENTAL SUBSTATION	36,261,844	257,603	87%	Network
149	LOWER MONUMENTAL SUBSTATION	41,712,462	296,323	100%	Total
147	LYNCH CREEK SUBSTATION	726,128	10,653	57%	Network
150	LYNCH CREEK SUBSTATION	545,682	8,006	43%	Utility Delivery
151	LYNCH CREEK SUBSTATION	1,271,810	18,659	100%	Total
150	MAPLETON SUBSTATION	933,517	32,258	86%	Network
152	MAPLETON SUBSTATION	155,228	5,364	14%	Utility Delivery
153	MAPLETON SUBSTATION	1,088,745	37,622	100%	Total
154	MARION SUBSTATION	39,440,179	418,992	92%	Network
155	MARION SUBSTATION	3,594,409	38,185	8%	Southern Intertie
156	MARION SUBSTATION	43,034,588	457,177	100%	Total
157	M McNARY SUBSTATION	12,134,694	61,096	9%	Generation Integration
158	M McNARY SUBSTATION	117,482,137	591,503	91%	Network
159	M McNARY SUBSTATION	129,616,831	652,600	100%	Total
154	MINIDOKA SUBSTATION	139,342	3,886	36%	Network

Appendix B

BP-22 Initial Proposal Multi-Segmented Facilities Summary

	A	B	C	D	E
	Transmission Lines	Investment (\$)	O&M (\$)	Multi %	Segment
160	MINIDOKA SUBSTATION	246,447	6,873	64%	Utility Delivery
161	MINIDOKA SUBSTATION	385,789	10,759	100%	Total
157	MONMOUTH SUBSTATION	1,308,756	36,074	58%	Network
162	MONMOUTH SUBSTATION	946,355	26,085	42%	Utility Delivery
163	MONMOUTH SUBSTATION	2,255,111	62,159	100%	Total
160	MOUNTAIN AVENUE SUBSTATION	1,649,673	27,134	78%	Network
164	MOUNTAIN AVENUE SUBSTATION	459,383	7,556	22%	Utility Delivery
165	MOUNTAIN AVENUE SUBSTATION	2,109,055	34,690	100%	Total
164	NECANICUM SUBSTATION	155,809	5,320	46%	Network
166	NECANICUM SUBSTATION	183,289	6,258	54%	Utility Delivery
167	NECANICUM SUBSTATION	339,098	11,578	100%	Total
166	NORTH BENCH SUBSTATION	303,427	2,657	41%	Network
168	NORTH BENCH SUBSTATION	435,183	3,810	59%	Utility Delivery
169	NORTH BENCH SUBSTATION	738,610	6,467	100%	Total
160	NORTH BONNEVILLE SUBSTATION	4,829,681	72,592	31%	Generation Integration
170	NORTH BONNEVILLE SUBSTATION	10,829,835	162,777	69%	Network
171	NORTH BONNEVILLE SUBSTATION	15,659,516	235,369	100%	Total
170	NORTH BUTTE SUBSTATION	110,484	6,872	56%	Network
172	NORTH BUTTE SUBSTATION	86,353	5,371	44%	Utility Delivery
173	NORTH BUTTE SUBSTATION	196,837	12,242	100%	Total
172	PARKDALE SUBSTATION	1,071,795	22,376	71%	Network
174	PARKDALE SUBSTATION	438,552	9,156	29%	Utility Delivery
175	PARKDALE SUBSTATION	1,510,347	31,532	100%	Total
176	PORT ORFORD SUBSTATION	296,514	21,681	63%	Network
177	PORT ORFORD SUBSTATION	174,549	12,763	37%	Utility Delivery
178	PORT ORFORD SUBSTATION	471,063	34,443	100%	Total
179	POTLATCH SUBSTATION(BPA)	1,006,926	29,668	89%	Network
180	POTLATCH SUBSTATION(BPA)	118,148	3,481	11%	Utility Delivery
181	POTLATCH SUBSTATION(BPA)	1,125,074	33,150	100%	Total
182	REEDSPORT SUBSTATION (BPA)	3,472,631	90,249	94%	Network
183	REEDSPORT SUBSTATION (BPA)	206,897	5,377	6%	Utility Delivery
184	REEDSPORT SUBSTATION (BPA)	3,679,527	95,626	100%	Total
185	RINGOLD SUBSTATION	425,799	12,630	74%	Network
186	RINGOLD SUBSTATION	118,297	3,509	21%	Utility Delivery
186	RINGOLD SUBSTATION	28,890	857	5%	Unsegmented
187	RINGOLD SUBSTATION	572,985	16,996	100%	Total
188	SACAJAWEA SUBSTATION	219,162	644	1%	Generation Integration
189	SACAJAWEA SUBSTATION	25,105,927	73,805	99%	Network
190	SACAJAWEA SUBSTATION	25,325,089	74,449	100%	Total
191	SANDPOINT SUBSTATION(BPA)	1,106,305	17,739	85%	Network
192	SANDPOINT SUBSTATION(BPA)	198,146	3,177	15%	Utility Delivery

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	A	B	C	D	E
	Transmission Lines	Investment (\$)	O&M (\$)	Multi %	Segment
193	SANDPOINT SUBSTATION(BPA)	1,304,451	20,917	100%	Total
194	SANTIAM SUBSTATION	576,281	6,169	2%	Generation Integration
195	SANTIAM SUBSTATION	27,026,603	289,325	98%	Network
196	SANTIAM SUBSTATION	27,602,885	295,494	100%	Total
197	SCOOTENEY SUBSTATION	1,636,721	35,257	92%	Network
198	SCOOTENEY SUBSTATION	136,876	2,948	8%	Utility Delivery
199	SCOOTENEY SUBSTATION	1,773,597	38,205	100%	Total
200	SELLE SUBSTATION	233,060	2,905	31%	Network
201	SELLE SUBSTATION	512,312	6,386	69%	Utility Delivery
202	SELLE SUBSTATION	745,372	9,292	100%	Total
200	SLATT SUBSTATION	82,112,492	386,888	96%	Network
203	SLATT SUBSTATION	3,023,067	14,244	4%	Southern Intertie
204	SLATT SUBSTATION	85,135,559	401,132	100%	Total
203	STATELINE SUBSTATION	35,972	2,036	25%	Network
205	STATELINE SUBSTATION	105,755	5,985	75%	Utility Delivery
206	STATELINE SUBSTATION	141,727	8,020	100%	Total
205	STEILACOOM SUBSTATION	754,305	10,868	69%	Network
207	STEILACOOM SUBSTATION	346,790	4,997	31%	Utility Delivery
208	STEILACOOM SUBSTATION	1,101,095	15,864	100%	Total
205	SUMMER LAKE SUBSTATION	2,939,477	48,549	43%	Network
209	SUMMER LAKE SUBSTATION	3,896,516	64,355	57%	Southern Intertie
210	SUMMER LAKE SUBSTATION	6,835,992	112,904	100%	Total
209	SURPRISE LAKE SUBSTATION	604,747	13,998	80%	Network
211	SURPRISE LAKE SUBSTATION	155,330	3,595	20%	Utility Delivery
212	SURPRISE LAKE SUBSTATION	760,077	17,593	100%	Total
211	SWAN VALLEY SUBSTATION	12,515,351	76,868	98%	Network
213	SWAN VALLEY SUBSTATION	299,734	1,841	2%	Utility Delivery
214	SWAN VALLEY SUBSTATION	12,815,085	78,709	100%	Total
215	TACOMA SUBSTATION	22,548,405	310,225	99%	Network
216	TACOMA SUBSTATION	312,690	4,302	1%	Unsegmented
217	TACOMA SUBSTATION	22,861,096	314,527	100%	Total
218	TRENTWOOD SUBSTATION	5,747,904	101,071	81%	Network
219	TRENTWOOD SUBSTATION	1,307,977	22,999	18%	DSI Delivery
220	TRENTWOOD SUBSTATION	15,081	265	0.2%	Unsegmented
220	TRENTWOOD SUBSTATION	7,070,961	124,336	100%	Total
215	TROY SUBSTATION	685,866	25,091	63%	Network
221	TROY SUBSTATION	401,606	14,692	37%	Utility Delivery
222	TROY SUBSTATION	1,087,472	39,782	100%	Total
218	TUMBLE CREEK SUBSTATION	974,480	17,107	72%	Network
223	TUMBLE CREEK SUBSTATION	388,364	6,818	28%	Utility Delivery
224	TUMBLE CREEK SUBSTATION	1,362,844	23,924	100%	Total

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BP-22 Initial Proposal Multi-Segmented Facilities Summary

A		B	C	D	E
Transmission Lines		Investment (\$)	O&M (\$)	Multi %	Segment
221	TWO MILE ROAD SUBSTATION	1,107,811	12,699	71%	Network
225	TWO MILE ROAD SUBSTATION	456,726	5,235	29%	Utility Delivery
226	TWO MILE ROAD SUBSTATION	1,564,537	17,934	100%	Total
227	VALHALLA SUBSTATION	4,829,020	87,809	94%	Network
228	VALHALLA SUBSTATION	317,754	5,778	6%	Unsegmented
229	VALHALLA SUBSTATION	5,146,774	93,587	100%	Total
230	WALTON SUBSTATION	213,497	5,804	38%	Network
231	WALTON SUBSTATION	352,343	9,578	62%	Utility Delivery
232	WALTON SUBSTATION	565,840	15,382	100%	Total
230	WINTHROP SUBSTATION	1,349,024	18,078	88%	Network
233	WINTHROP SUBSTATION	180,015	2,412	12%	Utility Delivery
234	WINTHROP SUBSTATION	1,529,039	20,490	100%	Total
233	YAAK SUBSTATION	393,779	2,681	18%	Network
235	YAAK SUBSTATION	1,839,275	12,522	82%	Utility Delivery
236	YAAK SUBSTATION	2,233,054	15,202	100%	Total

