BP-16 Initial Rate Proposal

Transmission Segmentation Study and Documentation

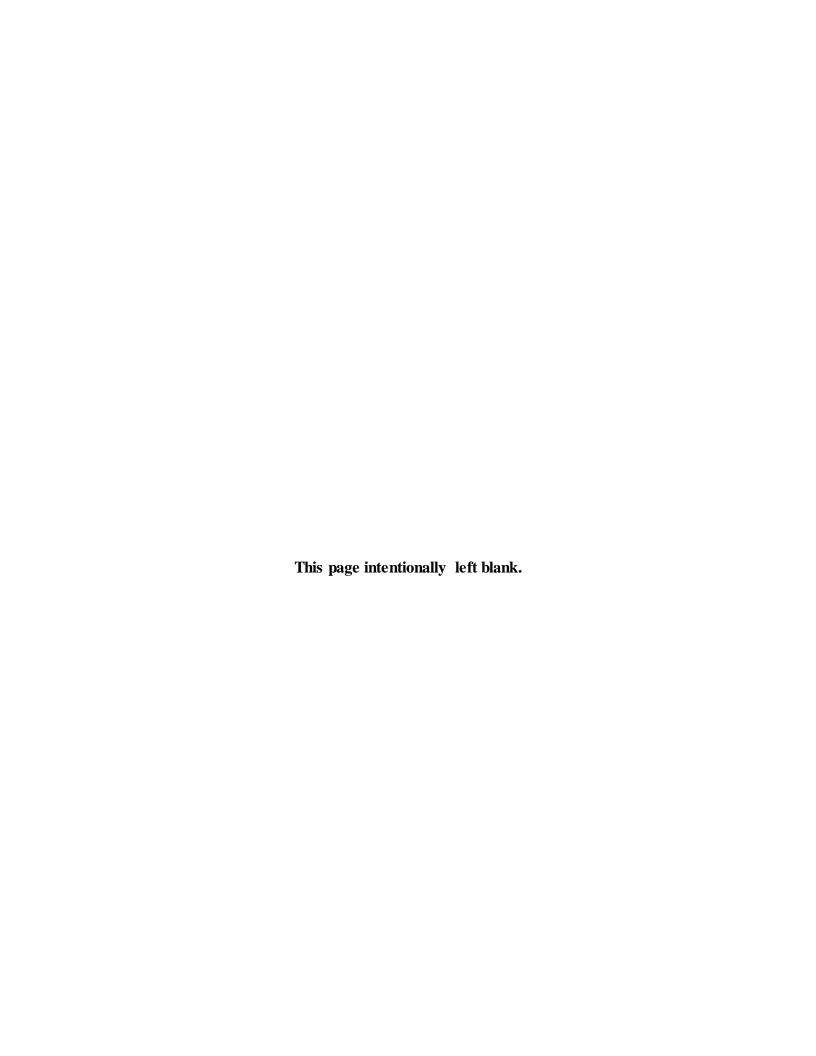
BP-16-E-BPA-06

December 2014



TRANSMISSION SEGMENTATION STUDY TABLE OF CONTENTS

COM	IMONL	Y USED ACRONYMS AND SHORT FORMS	ii
1.	OVE	RVIEW	1
2.		NING THE SEGMENTS	
	2.1	Generation Integration Segment	3
	2.2	Network Segment	4
	2.3	Southern Intertie Segment	5
	2.4	Eastern Intertie Segment	6
	2.5	Utility Delivery Segment	6
	2.6	Industrial Delivery Segment	7
	2.7	Ancillary Services Segment	
3.	ASSI	GNING FACILITIES TO THE SEGMENTS	9
	3.1	Multi-Segmented Facilities	
	3.2	Facilities Not Assigned to a Segment	
4.	DETE	ERMINING AND ALLOCATING INVESTMENT AND HISTORICAL	
			10
UXIV		NSES TO THE SEGMENTS	
	4.1	Gross Investment in Existing Facilities	
		4.1.1 Transmission Plant	
		4.1.2 Intangible Investment	
		4.1.3 Land Investment	
		4.1.4 Ancillary Service Investment	
		4.1.5 General Plant Investment	
	4.2	Retirement of Existing Facilities and Installation of New Facilities	
	4.3	Operations and Maintenance (O&M) Expense	16
		4.3.1 Historical Line and Station O&M Assignment to Segments	17
	4.4	U.S. Army Corps of Engineers and U.S. Bureau of Reclamation Facilities	19



COMMONLY USED ACRONYMS AND SHORT FORMS

AAC Anticipated Accumulation of Cash
ACNR Accumulated Calibrated Net Revenue
AER step Actual Energy Regulation study
AGC Automatic Generation Control

ALF Agency Load Forecast (computer model)

aMW average megawatt(s)

AMNR Accumulated Modified Net Revenues

ANR Accumulated Net Revenues
AOP Assured Operating Plan
ASC Average System Cost
BAA Balancing Authority Area

BiOp Biological Opinion

BPA Bonneville Power Administration

BPA-P Bonneville Power Administration – Power BPA-T Bonneville Power Administration – Transmission

Btu British thermal unit
CDD cooling degree day(s)
CDQ Contract Demand Quantity
CGS Columbia Generating Station
CHWM Contract High Water Mark
CNR Calibrated Net Revenue

COE, Corps, or USACE U.S. Army Corps of Engineers

Commission Federal Energy Regulatory Commission

COSA U.S. Army Corps of Engineers
COSA Cost of Service Analysis
COU consumer-owned utility

Council or NPCC Northwest Power and Conservation Council

CP Coincidental Peak

CRAC Cost Recovery Adjustment Clause

CSP Customer System Peak
CT combustion turbine

CY calendar year (January through December)

DDC Dividend Distribution Clause

dec decrease, decrement, or decremental

DERBS Dispatchable Energy Resource Balancing Service

DFS Diurnal Flattening Service
DOE Department of Energy
DOP Detailed Operating Plan

DSI direct-service industrial customer or direct-service industry

DSO Dispatcher Standing Order

EIA Energy Information Administration EIS Environmental Impact Statement

EN Energy Northwest, Inc.

EPP Environmentally Preferred Power

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

FHFO Funds Held for Others

FORS Forced Outage Reserve Service

FPS Firm Power and Surplus Products and Services (rate)

FY fiscal year (October through September)

G&A general & administrative

GARD Generation and Reserves Dispatch (computer model)

GEP Green Energy Premium

GMS Generation Management Service
GRSPs General Rate Schedule Provisions
GTA General Transfer Agreement

GWh gigawatthour

HDD heating degree day(s)
HLH Heavy Load Hour(s)

HOSS Hourly Operating and Scheduling Simulator

(computer model)

HYDSIM Hydrosystem Simulator (computer model)

ICE Intercontinental Exchange

increase, increment, or incremental

IOUinvestor-owned utilityIPIndustrial Firm Power (rate)IPRIntegrated Program ReviewIRDIrrigation Rate DiscountIRMIrrigation Rate Mitigation

IRMP Irrigation Rate Mitigation Product

JOE Joint Operating Entity

kcfs thousand cubic feet per second

kW kilowatt (1000 watts)

kWh kilowatthour

LPP Large Project Program
LDD Low Density Discount
LLH Light Load Hour(s)

LPTAC Large Project Targeted Adjustment Charge

LRA Load Reduction Agreement

Maf million acre-feet Mid-C Mid-Columbia

MMBtu million British thermal units
MNR Modified Net Revenues

MRNR Minimum Required Net Revenue

MW megawatt (1 million watts)

MWh megawatthour

NCP Non-Coincidental Peak

NEPA National Environmental Policy Act

NERC North American Electric Reliability Corporation NFB National Marine Fisheries Service (NMFS) Federal

Columbia River Power System (FCRPS) Biological

Opinion (BiOp)

NLSL New Large Single Load

NMFS National Marine Fisheries Service

NOAA Fisheries National Oceanographic and Atmospheric Administration

Fisheries

NORM Non-Operating Risk Model (computer model)
Northwest Power Act Pacific Northwest Electric Power Planning and

Conservation Act

NPCC or Council Pacific Northwest Electric Power and Conservation

Planning Council

NPV net present value

NR New Resource Firm Power (rate)
NRFS New Resource Flattening Service

NT Network Transmission

NTSA Non-Treaty Storage Agreement

NUG non-utility generation NWPP Northwest Power Pool

OATT Open Access Transmission Tariff

O&M operation and maintenance

OATI Open Access Technology International, Inc.

OMB Office of Management and Budget

OPER step operational study

OY operating year (August through July)

PF Priority Firm Power (rate)
PFp Priority Firm Public (rate)
PFx Priority Firm Exchange (rate)

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

POM Point of Metering POR Point of Receipt

Project Act
PRS
Power Rates Study
PS
BPA Power Services
PSW
Pacific Southwest

PTP Point to Point Transmission (rate)
PUD public or people's utility district

RAM Rate Analysis Model (computer model)

RAS Remedial Action Scheme

RD Regional Dialogue

REC Renewable Energy Certificate
Reclamation or USBR U.S. Bureau of Reclamation
REP Residential Exchange Program

RevSim Revenue Simulation Model (component of RiskMod)

RFA Revenue Forecast Application (database)

RHWM Rate Period High Water Mark

Risk Model (computer model)

Risk Simulation Model (component of RiskMod)

ROD Record of Decision

RPSA Residential Purchase and Sale Agreement

RRS Resource Replacement (rate)
RRS Resource Remarketing Service
RSS Resource Support Services
RT1SC RHWM Tier 1 System Capability
RTO Regional Transmission Operator

SCADA Supervisory Control and Data Acquisition

SCS Secondary Crediting Service
Slice Slice of the System (product)
T1SFCO Tier 1 System Firm Critical Output

TCMS Transmission Curtailment Management Service

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 BPA Transmission Services
TSS Transmission Scheduling Service

UAI Unauthorized Increase
ULS Unanticipated Load Service
USACE, Corps, or COE U.S. Army Corps of Engineers
USBR or Reclamation
USFWS Unauthorized Increase
Unanticipated Load Service
U.S. Army Corps of Engineers
U.S. Bureau of Reclamation
U.S. Fish and Wildlife Service

VERBS Variable Energy Resources Balancing Service (rate)

VOR Value of Reserves

VR1-2014 First Vintage rate of the BP-14 rate period

WECC Western Electricity Coordinating Council (formerly

WSCC)

WIT Wind Integration Team

WSPP Western Systems Power Pool

1. OVERVIEW

The Bonneville Power Administration (BPA) segments 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 demonstrate equitable allocation 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: defining the segments; assigning facilities to the segments; and 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-16-E-BPA-08A, tables 2.1 to 2.8. The segmented revenue requirement is then used to set transmission rates. *See* Transmission Rates Study and Documentation, BP-16-E-BPA-07.

Prior to segmenting its system for this rate period, BPA engaged the region in a comprehensive public process regarding its segmentation methodology. This process included a discussion about why BPA segments its system, the principles BPA considers to determine its segmentation methodology, an industry scan of how other transmission providers functionalize and allocate transmission costs, and collaboration with customers to identify and evaluate different segmentation methodologies. The process culminated in a white paper that BPA used as an input to develop the segmentation methodology used in this study. *See* Tenney *et al.*, BP-16-E-BPA-16, § 3.



1	2. DEFINING THE SEGMENTS
2	Defining the segments is the first step in the segmentation process. BPA defines the
3	segments based on applicable legal, policy, and technical principles and requirements.
4	The definitions set forth below incorporate those principles and requirements.
5	
6	For the FY 2016–2017 rate period, BPA has divided its transmission system into the
7	following segments: (1) Generation Integration, (2) Network, (3) Southern Intertie,
8	(4) Eastern Intertie, (5) Utility Delivery, (6) Direct Service Industry (DSI) Delivery, and
9	(7) Ancillary Services. This study also identifies facility investment in general plant that
10	supports the transmission system, such as communications equipment, buildings, and
11	vehicles. See § 4.1.5.
12	
13	2.1 Generation Integration Segment
14	The Generation Integration segment consists of facilities that connect the Federal
15	generating plants to BPA's transmission facilities. Generation Integration facilities are
16	the same type of facilities that BPA requires other entities to provide to interconnect
17	non-Federal generators. Because the purpose of these facilities is to interconnect Federal
18	generation with BPA's transmission system, the costs associated with these facilities are
19	assigned to and recovered through BPA's power rates.
20	This segment includes:
21	generator step-up transformers, which transform voltage from the generation level
22	to the transmission level;
23	• transmission lines and equipment between the generator and the first substation at
24	which the power enters the Network segment; and
25	• substation terminal equipment, such as disconnect switches and circuit breakers,
26	associated with integrating Federal generation installed and assigned to the
27	Generation Integration segment prior to the development of the Direct

Assignment Guidelines in the late 1990s. (BPA is revising the guidelines, which will be renamed the Facility Ownership and Cost Assignment Guidelines.) None of this equipment has been installed (excluding replacements) at Federal generating plants since the guidelines were developed. Under the guidelines, BPA would likely allocate the costs of this equipment to the Network segment if it were constructed today for new generation. *See* Tenney *et al.*, BP-16-E-BPA-16, §§ 8 to 10.

2.2 Network Segment

The Network segment is the core of BPA's transmission system. The facilities in this segment transmit power from Federal and non-Federal generation sources or interties to the load centers of BPA's transmission customers in the Pacific Northwest or 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 load instead of the remote generation that is scheduled to serve that load), bulk power transfers, voltage regulation, and increased overall reliability resulting from alternative resource and transmission pathways. The costs of the Network segment are recovered through the Formula Power Transmission rate, the Integration of Resources rate, the Network Integration rate, the Advanced Funding rate, the Use of Facilities (UFT) charge, and the Point-to-Point rate.

This segment includes:

 transmission lines and equipment that allow the transfer of energy between the interconnection points with generators and the interconnection points with customers' transmission facilities and other BPA segments;

26

AC lines from Grizzly substation to Malin substation in central Oregon and

associated terminals (owned by Portland General Electric Company), and (2) the

.

2.4 Eastern Intertie Segment

resistor at Chief Joseph substation.

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 system between Townsend and Garrison, Montana, and associated terminal equipment at Garrison substation. The costs associated with the Eastern Intertie are recovered through the Townsend-Garrison Transmission, Montana Intertie, and the Eastern Intertie rates.

Meridian-Captain Jack-Malin 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

2.5 Utility Delivery Segment

The Utility Delivery segment consists of substation facilities required to step down (reduce) transmission voltages to lower voltages usually associated with supplying power directly to utility distribution systems. Utility Delivery facilities are distinguished from Network facilities in that Utility Delivery facilities provide transformation down to the customer's distribution voltage, whereas Network facilities transmit power at voltages that the customer must step down before the power enters the customer's distribution

system. Utility Delivery facilities provide service to only a small subset of BPA's transmission customers. These facilities do not provide reliability benefits to the Network segment. BPA recovers the costs of these facilities through the Utility Delivery rate.

transmission plant supporting the Utility Delivery function; and

substation to Hood River Electric Cooperative.

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

step-down transformers, associated switching and protection equipment, and other

5

6

1

2

3

4

This segment includes:

- 7
- 8
- 9
- 11

12

13

14

15

16

17

18

19

20

12

2.6 Industrial Delivery Segment

This segment consists of transformers, switching equipment, protection equipment, and related transmission plant at the Intalco, Conkelley, and Trentwood substations necessary to step down transmission voltages to industrial voltages (*i.e.*, 6.9 or 13.8 kV) to supply power to direct-service industrial (DSI) customers. Because these facilities serve the distinct purpose of supplying power to DSI customers, BPA segments the facilities separately and allocates the cost to the Industrial Delivery segment. Customers that utilize these facilities pay Use-of-Facilities (UFT) rates.

21

22

2.7 Ancillary Services Segment

- 23 This segment consists of control equipment and associated communications equipment
- 24 necessary for BPA to provide Scheduling, System Control, and Dispatch (SCD) service.
- 25 Because this equipment serves the distinct purpose of supporting BPA's provision of

1	SCD services, BPA assigns it to the Ancillary Services segment and recovers its costs
2	through the SCD rate.
3	
4	This segment includes:
5	 monitoring and supervisory control equipment;
6	 associated communications equipment; and
7	 control center hardware and software.
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	

3. ASSIGNING FACILITIES TO THE SEGMENTS

2

3

4

5

1

After the segments are defined, BPA's 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:

6

transmission facilities (lines and stations) assigned solely to one segment;

7

multi-segmented transmission facilities assigned to several segments;

8

depreciable land assigned by segment;

9

ancillary service facilities assigned to the Ancillary Services segment; and

10

general plant facilities.

more detail in section 3.1.

be allocated.

11 12

The following resources are used to segment the facilities:

13 14 One-line diagrams identify the location, interconnectivity, ownership, and characteristics of transmission lines, substations, breakers and transformers.

15

Installation and maintenance records identify major equipment (e.g., transformers,

16

circuit breakers, and reactive equipment) installed or maintained by BPA. BPA

17

uses these records to identify and associate specific equipment in the plant

18 19 accounting records with the equipment identified on the one-line diagrams. This

20

association is particularly useful in allocating investment at facilities that support

21

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

22

23 24

Agreements, such as those relating to the construction and operation of the Southern and Eastern Interties, specify how the costs for certain facilities should

25

3.1 Multi-Segmented Facilities

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

Network.

For multi-segmented lines, investment is generally allocated to multiple segments according to percentages established by contract. Where 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

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. Then the investment in the substation is allocated to the 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 is 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 the common equipment for the substation, 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, it is also assigned 80 percent of the investment in common equipment.
- 3. The total investment in each shared group is then allocated to the segments 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 circuit switcher), 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 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 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 plant investment associated with these facilities is allocated to all the segments on a pro rata basis. For example, if 80 percent of the directly assigned investment in station equipment is segmented to the Network segment, then 80 percent of the investment in station equipment that is not directly assigned is also segmented to the Network. Table 2, lines 4 and 18, shows the allocation of the investment in these facilities.

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

1 2

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 developed 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 BP-16 forecast costs to each segment.

The transmission segmented investment through September 30, 2013, is shown in table 2. Table 3a shows the segmented expected future plant investment. The historical O&M by segment for FY 2007 to FY 2013 is shown in table 4a.

4.1 Gross Investment in Existing Facilities

BPA's gross investment is shown in table 1, and broken down 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 the most recently completed fiscal year (FY 2013).

4.1.1 Transmission Plant

Transmission plant investments refer to investments in lines and substations, which are 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, including leased facilities and without Projects Funded in Advance (PFIA), is

1	\$6.1 billion as of the end of FY 2013 (table 1, line 23). Transmission plant investment
2	associated with specific facilities is allocated to segments based on the assignment of
3	facilities to the segments as described in section 3.
4	
5	4.1.2 Intangible Investment
6	Intangible investments are BPA's share of participation in facilities owned by others
7	(BPA's capacity rights). In each case the investment supports either the Network or the
8	Southern Intertie segment. For the FY 2016–2017 rate period, the investments are
9	segmented to one of these segments based on the segment each facility supports. As
10	shown in table 2, line 29, BPA has \$9.6 million of intangible investments.
11	
12	4.1.3 Land Investment
13	Land owned by BPA is not depreciated, and therefore no amortized costs for land need to
14	be segmented. However, BPA does have leased land that is depreciable (\$48.2 million,
15	see table 2, lines 32-37) and therefore must be segmented. Most of this land
16	(\$47.3 million, see table 2, line 34) is rights-of-way for transmission lines and is
17	segmented according to the type of service provided by the associated transmission lines.
18	For example, leased land that supports a transmission line segmented to the Network
19	segment is allocated to that segment. See table 2.
20	
21	BPA also has depreciable leased land (\$0.67 million, see table 2, line 35) associated with
22	radio stations that is not assigned to a specific segment because communication facilities
23	like radio stations generally support all the segments. Therefore, the depreciation
24	associated with this leased land is pro-rated to the segments based on the total of the line
25	and station investment allocated to each segment.

4.1.4 Ancillary Service Investment

BPA has \$167.5 million in ancillary service investment. *See* table 2, line 41. This investment includes equipment designated as control equipment (\$77.9 million, line 43), hardware and software at the control centers supporting scheduling and dispatch (\$45.7 million, line 46), and communications equipment supporting Supervisory Control and Data Acquisition (SCADA) (\$43.9 million, line 52). This investment is all allocated to the Ancillary Services segment.

4.1.5 General Plant Investment

General plant investment is associated with equipment of a general nature (FERC accounts 390 through 398, with some amounts identified in FERC accounts 352, 353, and 356). See table 2. BPA's telecommunications system facilities (such as radio stations), maintenance buildings, and vehicles are examples of general plant investment. Through FY 2013, BPA's general plant investment (less Projects Funded In Advance (PFIA)) was \$866 million. See table 1, line 27. General plant investment is not allocated to the segments in this study. In the Transmission Revenue Requirement Study, the depreciation cost associated with this investment is treated as an overhead expense and allocated pro rata to the segments based on the segmented O&M expenses. See Transmission Revenue Requirement Study Documentation, BP-16-E-BPA-08A, ch. 4.

4.2 Retirement of Existing Facilities and Installation of New Facilities

As this study is being prepared, BPA has the actual investment figure for facilities in place as of the end of FY 2013. To estimate the investment that will be in place during the FY 2016–2017 rate period, this figure is adjusted to remove investment in facilities expected to be retired or sold, and to include the forecast of facilities expected to be

1	
1	installed, after the end of FY 2013 and before the end of FY 2017. Table 3a summarizes
2	the expected station and line investment by segment for fiscal years 2014 through 2017.
3	
4	New facility investment is identified from BPA's Integrated Program Review (IPR)
5	process. No specific facilities are identified for retirement in this study. However, as
6	discussed in the Transmission Revenue Requirement Study, the expected investment in
7	new station facilities has been reduced based on historical ratios of retired equipment to
8	new replacement equipment. Transmission Revenue Requirement Study Documentation,
9	BP-16-E-BPA-08A, ch. 2.
10	
11	4.3 Operations and Maintenance (O&M) Expense
12	This study includes historical O&M expenses from plant record data for the last seven
13	fiscal years (2007 through 2013). O&M expenses are categorized into three groups
14	(see table 4b):
15	O&M on lines and substations,
16	scheduling and system operations allocated to the Ancillary Services segment,
17	and
18	marketing and business support (overhead).
19	
20	The O&M expenses on lines and substations include substation operations, various
21	transmission maintenance programs, technical training, vegetation management, and
22	environmental expenses such as pollution controls. These expenses are segmented
23	according to the facilities supported (section 4.3.1). The seven-year historical line and
24	substation O&M expenses average \$144.5 million annually (see table 4a, line 16). The
25	segmented historical costs are used to allocate the projected future O&M costs. See

Transmission Revenue Requirement Study Documentation, BP-16-E-BPA-08A, ch. 2.

26

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 \$42.2 million. *See* table 4a, 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-16-E-BPA-08A, ch. 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 \$43.2 million. *See* table 4a, 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-16-E-BPA-08A, ch. 2.

4.3.1 Historical Line and Station O&M Assignment to Segments

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

- Historical O&M expenses are identified by fiscal year and category, as shown in table 4b. 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 entirely allocated to one segment, then the O&M is also entirely allocated 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 4c.

- 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 14.5 percent of direct expenses are allocated to transmission lines, 14.5 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 4c, row 15. These amounts are allocated to the segments in the same proportion as the direct expenses for each facility type. For example, 93 percent of direct O&M expenses for transmission lines was allocated to

the Network. Therefore, 93 percent of non-direct O&M expenses for transmission lines is allocated to the Network. See table 4a, lines 4, 7, and 13. 4.4 U.S. Army Corps of Engineers and U.S. Bureau of Reclamation Facilities The investment and annual O&M expenses for the U.S. Army Corps of Engineers (Corps) and U.S. Bureau of Reclamation (Bureau) facilities that function as part of BPA's transmission system are included in the transmission revenue requirement, even though BPA does not own these facilities. The total Corps and Bureau expenses allocated to transmission were identified in the BP-16 generation inputs settlement, attachment 3. The segmentation of these expenses is based on an analysis of the Corps and Bureau facilities summarized in table 5. As shown, 97.3 percent of the expenses are segmented to the Network and 2.7 percent of the expenses are segmented to Utility Delivery.



Table 1
BPA Investment Summary, through September 30, 2013
(\$000)

	Α	В	С	D	E
	<u>Category</u>	<u>Total</u>	Funded in Advance	PFIA Stations	PFIA Lines
1	TRANSMISSION PLANT IN SERVICE	5,770,568	127,081	75,289	51,792
2	MASTER LEASE	328,268			
3	LEASED ASSETS	125,086			
4	CAPITAL LEASES	20,353		_	_
5	EMERGENCY MINIMUM STOCK	11,014		_	
6	INTANGIBLES	9,559		Land Stations	Land Lines
7	FEE LAND IN SERVICE	135,965	238	25,371	110,356
8	DEPRECIABLE FEE LAND	48,346	107	716	47,524
9	GENERAL PLANT IN SERVICE	910,093	44,001		
10	Corporate Plant in Service	132,063			
11	PS Plant in Service	53,167			-
12	Accounting Adjustments (Lagging Projects)	177,498			
13	Grand Total	7,721,980	171,426		
	Transmission Plant		Segmented	<u>Unsegmented</u>	Ancillary Service
14	Substations	3,093,047			-
15	Metering Locations	14,048			
16	Total Stations	3,107,095	3,091,570	15,524	
17	Total Lines	2,827,230	2,802,183	25,046	
18	Other Transmission Plant	101,886		101,886	
19	Emergency minimum stock	11,014		11,014	
20	Intangibles	9,559	9,559		
21	Communication Equipment (397)	3,129		2,752	377
22	Control Equipment (353.1)	77,855			77,855
23	TPLNT (inc Leases) less PFIA	6,137,767	5,903,312	156,222	78,232
	General Plant				
24	Communication Equipment (397)	441,649		398,100	43,549
25	Control Equipment (353.1, 391.2, 391.3)	45,683			45,683
26	Other General Plant	378,760		378,760	
27	GPLNT less PFIA	866,092		776,860	89,232
	<u>Subtotals</u>		_		
28	Communication Equipment (397)	444,778		400,852	43,926
29	Control Equipment (353.1, 391.2, 391.3)	123,538			123,538
30	Total (incl. Dep Land GPlant)		=	779,612	167,464

Table 1 Chart BPA Plant Investment (\$000)

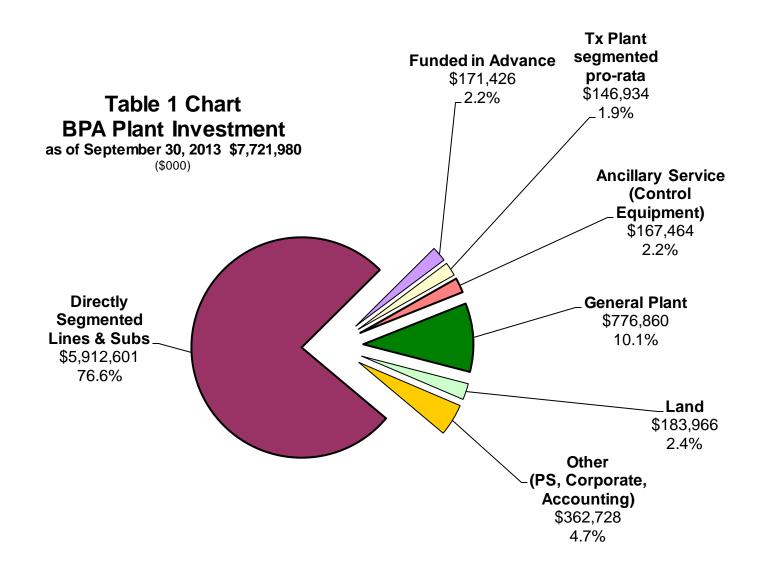


Table 2
BPA Segmented Investment, through September 30, 2013 (\$000)

	Α	B Generation Integration	C <u>Network</u>	D Southern <u>Intertie</u>	E Eastern <u>Intertie</u>	F Utility <u>Delivery</u>	G <u>DSI Delivery</u>	H Segmented <u>Total</u>	l Un- <u>segmented</u>
1 2 3 4 5	Substations Other Facilities Emergency Stock Unseg. Allocation Subtotal	2,566 64,328	2,356,545 97,891 2,454,436	595,820 24,750 620,571	24,402 1,014 25,416	26,844 1,115 27,959	26,196 1,088 27,284	3,091,570 128,424 3,219,994	15,524 101,886 11,014 (128,424)
6 7 8 9 10 11 12 13 14 15 16	FERC Account Summary Account 352 Account 353 Account 354 Account 355 Account 356 Account 358 Account 359 Account 390 Account 391 Leased (no account) Substation total	0.,020	2,101,100	0_0 ,0	25,5	21,000		323,639 2,884,966 4,871 1,195 3,746 59 866 101 484 67 3,219,994	
17 18 19	Lines Unseg. Allocation Subtotal	17,872 160 18,032	2,491,881 22,273 2,514,154	197,990 1,770 199,760	94,271 843 95,114	169 2 170	- -	2,802,183 25,046 2,827,230	25,046 (25,046)
20 21 22 23 24 25 26 27 28	 21 Account 353 22 Account 354 23 Account 355 24 Account 356 25 Account 358 26 Account 359 27 Leased (no account) 	·		·			- -	1,473 22,886 1,087,869 300,280 1,153,990 21,807 177,125 61,801 2,827,230	
29	Intangibles (Account 303)		4,085	5,473				9,559	

Table 2 BPA Segmented Investment, through September 30, 2013 (\$000) D

Southern

<u>Intertie</u>

Ε

Eastern

<u>Intertie</u>

F

Utility

Delivery

G

DSI Delivery

Н

Segmented Total

Un-

segmented

В

Generation

Integration

Α

С

<u>Network</u>

30	Lines & Subs Total	82,360	4,972,676	825,804	120,530	28,130	27,284	6,056,783	-
31	% of Segmented Total	1.4%	82.1%	13.6%	2.0%	0.5%	0.5%	100.0%	
32	Depreciable Land (Account 350)								
33	Substations	-	46	-	-	-	-	46	
34	Lines	61	47,247	-	-	-	-	47,308	216
35	Other Facilities								670
36	Unseg. Allocation	12	727	121	18	4	4	886	(886)
37	Subtotal	73	48,020	121	18	4	4	48,239	-
								Ameillem	
	Other							Ancillary <u>Services</u>	General Plant
38	Control							123,538	Ocherai <u>i lant</u>
39	Communications							43,926	400,852
40	General Plant							.0,020	378,760
41	Subtotal						_	167,464	779,612
	FERC Account Summary						=		
42	Account 352								44
43	Account 353 (Ancillary service is	control equipment	only)					77,855	(5)
44	Account 356								(2)
45	Account 390								193,943
46	Account 391 (Ancillary service is	control equipment	only)					45,683	1,696
47	Account 392								74,251
48	Account 393								1,318
49 50	Account 394 Account 395								9,565 31,996
51	Account 396								30,387
52	Account 397 (Ancillary service is	SCADA equipment	only)					43,926	400,852
53	Account 398	, co, e, t oquipinon	, ,					10,020	35,567
54	Other total						_	167,464	779,612
							=		
55	Segmented Investment	82,433	5,020,695	825,925	120,547	28,134	27,288	167,464	779,612

Table 3a
Future Plant in Service Summary (\$000)

	Α	B Generation	С	D Southern	E Eastern	F Utility	G	Н
		Integration	<u>Network</u>	<u>Intertie</u>	<u>Intertie</u>	<u>Delivery</u>	DSI Delivery	<u>Total</u>
1	Stations							
2	FY 2014	-	166,711	14,858	145	117	-	181,831
3	FY 2015	-	185,004	26,797	208	54	-	212,064
4	FY 2016	-	241,608	23,593	91	63	-	265,355
5	FY 2017	-	177,918	288,417	87	46	-	466,468
6	Lines							
7	FY 2014	-	97,992	3,129	-	-	-	101,121
8	FY 2015	-	147,123	1,762	-	-	-	148,886
9	FY 2016	-	182,584	1,754	-	-	-	184,339
10	FY 2017	-	129,702	34,336	-	-	-	164,038
11	Lines & Subs							
12	FY 2014	-	264,704	17,987	145	117	-	282,952
13	FY 2015	-	332,127	28,560	208	54	-	360,950
14	FY 2016	-	424,192	25,347	91	63	-	449,694
15	FY 2017	-	307,620	322,753	87	46	-	630,506
		Ancillary						
16	Other	<u>Services</u>	General <u>Plant</u>					
17	FY 2014	66,585	101,415					
18	FY 2015	52,109	116,239					
19	FY 2016	64,789	118,691					
20	FY 2017	40,038	119,561					

Table 3b
Future Plant in Service Details
(\$000)

_	A	В	С	D	E	F	G	Н	l	J	K	L	М	N	0	Р	Q
	Project	Total		Substation		Line			Ancillary & General Plant								
	Project	FY 14	FY 15	FY16	FY 17	FY 14	FY 15	FY16	FY 17	FY 14	FY 15	FY16	FY 17	FY 14	FY 15	FY16	FY 17
1	BIG EDDY-KNIGHT 500KV PROJECT	-	39,500	-	-	-	3,950	-	-	-	31,600	-	-	-	3,950	-	- 1
2	CENTRAL FERRY- LOWER MONUMNTAL PROJECT	-	-	80,000	-	-	-	8,000	-			64,000	-	-	-	8,000	-
3	PSANI PROJECT	-	-	37,300	-	-	-	33,570	-	-	-	-	-	-	-	3,730	-
4	BONANZA SUBSTATION PROJECT	-	-	-	20,500	-	-	-	20,500	-	-		-	-			-
	MAIN GRID PROJECTS																
5	OLYMPIC PENINSULA REINFORCEMENT	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
6	CENTRAL OREGON REINFORCEMENT	125	-	-	-	125	-	-	-	-	-	-	-	-	-	-	-
	PORTLAND-VANCOUVER AREA																
7	Pearl Substation 500KV Bay 6 TFY1100141	27	-	-	-	27	-	-	-	-	-	-	-	-	-	-	-
8	Keeler Substation 500KV Bus Sect Brkr TFY110073	-	-	1,526	-	-	-	1,526	-	-	-	-	-	-	-	-	-
9	Ostrander 500KV Brkr TFY120123	-	-	1,094	-	-	-	1,094	-	-	-	-	-	-	-	-	-
10	Pearl Substation 500KV Expansion TS0140024	-	-	-	2,103	-	-	-	1,893	-	-	-	210	-	-	-	
11	WEST OF CASCADES NORTH	2,503	-	-	-	2,503	-	-	-	-	-	-	-	-	-	-	
12	WEST OF CASCADES SOUTH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	SALEM- ALBANY-EUGENE AREA	-	4,810	-	-	-	-	-	-	-	4,810	-	-	-	-	-	-
	TRI-CITIES AREA																
14	White Bluff Sub Bus TFY090164	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
15	Franklin 115KV Shunt Cap TFY110037	-	2,011	-	-	-	2,011	-	-	-	-	-	-	-	-	-	-
16	White Bluffs 115KV Shunt Cap TFY120024	26	-	-	-	26	-	-	-	-	-	-	-	-	-	-	-
17	McNary 230KV Shunt Cap TFY120109	-	-	3,495	-	-	-	3,495	-	-	-	-	-	-	-	-	-
18	Red Mountain-Grandview L-RAS TS014006	-	-	453	-	-	-	-	-	-	-	-	-	-	-	453	-
19	MONTANA-WEST OF HATWAI	501	-	-	-	250	-	-	-	250	-	-	-	-	-	-	-
20	MISC MAIN GRID PROJECTS & COMPLIANCE	2,503	4,631	24,603	26,647	2,503	4,631	24,603	26,647	-	-	-	-	-	-	-	-
	AREA & CUSTOMER SERVICE PROJECTS																
21	LOWER VALLEY REINFORC. PROJECT (CARIBOU/HOOPER)	-	-	-	45,000	-	-	-	11,250	-	-	-	33,750	-	-	-	-
22	CITY OF CENTRALIA PROJECT	44	-	-	-	44	-	-	-			-	-	-	-	-	-
23	SOUTHERN IDAHO - LOWER VALLEY	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-
24	MISC. AREA & CUSTOMER SERVICE	751	1,389	2,514	9,077	751	1,389	2,514	9,077	-	-	-	-	-	-	-	-
25	ROGUE SVC ADDITION	1,016	-	-	-	1,016	-	-	-	-	-	-	-	-	-	-	-
26	LONGVIEW AREA REINFORCEMENT	939	-	-	-	845	-	-	•	94	-	-	-	-	-	-	-
27	KALISPELL-FLATHEAD VALLEY	1,877	-	-		1,877	-	-	-	-	-	-	-	-	-	-	-
28	Security Enhancements	8,601	12,411	6,383	7,570	8,601	12,411	6,383	7,570	-	-	-	-	-	-	-	-
29	IT Projects	4,493	4,155	3,490	2,825	-	-	-	-			-	-	4,493	4,155	3,490	2,825
30	SYSTEM TELECOMM - UPGRADES & ADDITIONS PROGRAM	10,648	12,668	11,000	29,274	-	-	-	-	-	-	-	-	10,648	12,668	11,000	29,274
	RIGHTS OF WAY PROGRAM			.=													12.22
31	ACCESS ROADS	15,000	15,520	17,100	19,000	-	-	-	-	-	-	-	-	15,000	15,520	17,100	19,000
32	LAND RIGHTS - TRIBAL RENEWALS	100	485	484	491	-	-	-	-	-	-	-	-	100	485	484	491
33	LAND RIGHTS- VEG MITIGATION	900	485	484	491	-	-	-	-	-	-	-	-	900	485	484	491
34	LAND RIGHTS - ACCESS ROADS	5,042	8,526	6,423	6,532	-	-	-	-	-	-	-	-	5,042	8,526	6,423	6,532
35	CC EXPAND PROGRAM	1,389	1,517	1,526	1,500	-	-	-	-	-	-	-	-	1,389	1,517	1,526	1,500
	CC SUSTAIN PROGRAM	0.470	0.00=	0.000	0.504									0.470	0.00=	0.000	0.504
36	CC INFASTRUCTURE COMPONENTS	2,479	2,897	2,899	3,521	-	-	-	-	-	-	-	-	2,479	2,897	2,899	3,521
37	CC SYSTEM & APPLICATION	3,332	2,755	2,899	2,375	-	-	-	-	-	-	-	-	3,332	2,755	2,899	2,375

Table 3b
Future Plant in Service Summary (\$000)

	Burlant	Total			Substation				Line				Ancillary & General Plant				
	Project	FY 14	FY 15	FY16	FY 17	FY 14	FY 15	FY16	FY 17	FY 14	FY 15	FY16	FY 17	FY 14	FY 15	FY16	FY 17
38	SUB DC - UPGRADES & ADDITIONS (CELILO)	-	-	-	281,600	-	-	-	242,176	-	-	-	25,344	-	-	-	14,080
	UPGRADES & ADDITIONS PROJECTS																
39	MISC UPS & ADDS	10,887	13,583	9,052	3,783	8,274	10,323	6,880	2,875	653	815	543	227	1,960	2,445	1,629	681
40	LINES - UPS & ADDS	1,815	2,007	3,772	1,613	1,379	1,525	2,866	1,226	109	120	226	97	327	361	679	290
41	LINE SWITCH UPGRADES	250	309	251	100	190	235	191	76	15	19	15	6	45	56	45	18
42	SUBS AC - UPS & ADDS	17,520	13,274	15,087	5,750	13,315	10,088	11,466	4,370	1,051	796	905	345	3,154	2,389	2,716	1,035
	SUBS AC PROGRAM																
43	SUB AC-CIRCUIT BRKR & SWTCH GR	14,023	7,957	15,639	16,519	14,023	7,957	15,639	16,519	-	-	-		-	-		-
44	SUB AC-TRANSFORMERS & REACTORS	3,101	15,208	7,473	7,359	3,101	15,208	7,473	7,359	-	-	-	-	-	-	-	-
45	SUB AC - CVT/PT/CT & ARRESTERS	1,644	1,862	1,692	1,553	1,644	1,862	1,692	1,553	1	-	-	-	-	-	-	-
46	SUB AC- SHUNT CAPACITORS	1,783	1,324	589	349	1,783	1,324	589	349	-	-	-		-	-	-	-
47	SUB AC - LOW VOLTAGE AUX.	6,897	3,230	4,436	3,950	6,897	3,230	4,436	3,950	-	-	-	-	-	-	-	
48	SUB AC- BUS & STRUCTURES	919	982	1,398	2,885	919	982	1,398	2,885	-	-	-	-	-	-	-	II
49	LINES WOOD POLES SUSTAIN PROGRAM	33,020	44,892	54,407	50,208	-	-	-	-	33,020	44,892	54,407	50,208	-	-	-	
50	LINES STEEL SUSTAIN PROGRAM	19,603	12,246	14,122	14,512	-	-	-	-	19,603	12,246	14,122	14,512	-	-	-	II
51	SUB DC- POWER ELCTRNC & SRS CAPS PROGRAM	1,907	8,245	7,885	380	1,907	8,245	7,885	380	-	-	-	-	-	-	-	
52	SYSTEM TELECOMM - SUSTAIN PROGRAM	24,845	28,672	26,600	10,213	-	-	-	-	-	-	-	-	24,845	28,672	26,600	10,213
53	PSC PROGRAM	13,501	15,034	16,627	18,525	-	-	-	-	-	-	-	-	13,501	15,034	16,627	18,525
54	SPC PROGRAM	20,220	23,181	25,921	26,050	20,220	23,181	25,921	26,050	-	-	-	-	-	-	-	
55	TEAP - TOOLS PROGRAM	1,307	1,333	1,360	1,387	-	-	-	-	-	-	-	-	1,307	1,333	1,360	1,387
56	TEAP Equipment	9,776	6,854	7,002	7,800	-	-	-	-	-	-	-	-	9,776	6,854	7,002	7,800
57	Misc. Facilities Replacements	39,820	24,020	36,420	14,835		-							39,820	24,020	36,420	14,835
58	PFIA	4,000	5,000	5,000	5,000	3,400	4,250	4,250	4,250	600	750	750	750	-	-	-	, -
59	Generator Interconnect	8,000	10,000	10,000	10,000	6,800	8,500	8,500	8,500	1,200	1,500	1,500	1,500	-	-	-	, -
60	Radio Spectrum	200	-	-	-	-	-	-	-	-	-	-	-	200	-	-	, -
61	Total Environment (PP&A)	5,200	5,200	5,200	5,200	5,200	5,200	5,200	5,200	-	-	-	-	-	-	-	, -
62	TSD Program Indirect	58,343	65,691	57,561	48,694	29,172	32,846	28,780	24,347	17,503	19,707	17,268	14,608	11,669	13,138	11,512	9,739
63	AFUDC	31,732	39,743	44,448	26,242	15,866	19,871	22,224	13,121	9,520	11,923	13,334	7,873	6,346	7,949	8,890	5,248
64	Corporate Overhead	58,343	65,691	57,561	48,694	29,172	32,846	28,780	24,347	17,503	19,707	17,268	14,608	11,669	13,138	11,512	9,739
65	TOTALS:	450,953	529,297	633,174	790,105	181,831	212,064	265,355	466,468	101,121	148,886	184,339	164,038	168,000	168,348	183,480	159,599

Table 4a
BPA Historical Operations and Maintenance (O&M)
FY 2007-2013 (Seven Years)
(Annual Average \$000)

	Α	B Generation Integration	C Network	D Southern <u>Intertie</u>	E Eastern Intertie	F Utility Delivery	G DSI Delivery	H <u>Total</u>
	Stations	<u>integration</u>	INCLINOIK	<u>intertie</u>	<u>intertie</u>	<u>Delivery</u>	DSI Delivery	<u>10tai</u>
1	Substations Direct Allocation	825	25,876	5,170	172	538	401	32,982
2	% Direct	2.50%	78.46%	15.68%	0.52%	1.63%	1.22%	100.00%
3	Unsegmented Allocation	152	4,765	952	32	99	74	6,074
4	Non-Direct Allocation	1,429	44,853	8,962	298	933	695	57,170
5	Metering Direct Allocation	15	256	-	-	43	-	314
6	% Direct	4.85%	81.40%	0.00%	0.00%	13.75%	0.00%	100.00%
7	Non-Direct Allocation	21	347	-	-	59	-	427
8	Total Station O&M	2,442	76,097	15,084	501	1,672	1,170	96,966
9	Station Percent	2.5%	78.5%	15.6%	0.5%	1.7%	1.2%	100.0%
	Lines	,			5.5.1		,,	
10	Direct Allocation	57	6,035	371	54	1	-	6,518
11	% Direct	0.88%	92.59%	5.69%	0.83%	0.02%	0.00%	100.00%
12	Unsegmented Allocation	2	161	10	1	0	-	174
13	Non-Direct Allocation	358	37,788	2,322	338	7	-	40,813
14	Total Line O&M	416	43,984	2,703	393	9	-	47,505
15	Line Percent	0.9%	92.6%	5.7%	0.8%	0.0%	0.0%	100.0%
16	Lines & Subs	2,858	120,082	17,787	895	1,681	1,170	144,472
17	% of Segmented Total	2.0%	83.1%	12.3%	0.6%	1.2%	0.8%	100.0%
		Overhead	Ancillary					

Ancillary

Overhead Services

18 Other 43,202 42,168

Table 4b
BPA Historical Operations and Maintenance (O&M) Expenses
FY 2007-2013 (Seven Years)
Total O&M by Category

	Α	В	С	D	Е	F	G	Н	I
		<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>Average</u>
	O&M allocated to Lines and Stations								
1	SUBSTATION OPERATIONS	17,151	18,712	19,168	20,239	21,286	21,947	21,750	20,036
2	HEAVY MOBILE EQUIPMENT MAINT	(179)	355	58	(79)	379	0	(125)	58
3	JOINT COST MAINTENANCE	181	207	142	97	58	146	123	136
4	NON-ELECTRIC MAINTENANCE	8,439	9,340	11,280	18,241	23,548	25,900	25,204	17,422
5	POWER SYSTEM CONTROL MAINT	8,248	10,328	10,271	11,579	11,958	12,637	17,623	11,806
6	ROW MAINTENANCE	5,798	6,787	7,003	7,965	10,386	5,243	7,298	7,212
7	SUBSTATION MAINTENANCE	19,706	25,154	25,522	23,809	25,522	28,056	27,726	25,071
8	SYSTEM MAINTENANCE MANAGEMENT	7,535	5,167	7,753	5,277	5,292	4,879	7,076	6,140
9	SYSTEM PROTECTION CONTRL MAINT	9,535	10,864	11,419	11,377	11,388	11,651	11,869	11,158
10	TECHNICAL TRAINING	2,180	2,149	2,466	2,588	2,530	2,443	2,211	2,367
11	TRANSMISSION LINE MAINTENANCE	17,442	20,182	21,983	21,076	22,921	24,984	26,572	22,166
12	VEGETATION MANAGEMENT	8,982	21,514	27,414	20,583	11,696	16,141	17,928	17,751
13	ENVIRONMENTAL ANALYSIS	45	86	67	48	21	10	0	40
14	POLLUTION PREVENTN & ABATEMENT	2,995	3,050	2,907	2,870	3,236	3,288	3,427	3,110
15	Subtotal Lines and Stations	108,057	133,896	147,452	145,669	150,224	157,323	168,682	144,472
	O&M allocated to Ancillary Services								
16	CONTROL CENTER SUPPORT	9,492	10,978	11,400	11,088	14,753	13,646	14,062	12,203
17	INFORMATION TECHNOLOGY	4,297	4,465	4,572	5,334	6,768	9,098	9,115	6,235
18	POWER SYSTEM DISPATCHING	9,614	10,268	11,138	11,724	11,649	12,089	12,155	11,234
19	TECHNICAL OPERATIONS	3,338	4,193	5,242	4,557	4,725	3,816	4,410	4,326
20	SCHED-AFTER-THE-FACT	209	1,243	310	218	156	236	236	373
21	SCHED-MANAGE SPRVISION & ADMIN	523	491	237	0	(11)	0	0	177
22	SCHED-PRE-SCHEDULING	448	360	261	188	240	216	240	279
23	SCHED-REAL-TIME SCHEDULING	3,531	3,815	3,492	3,677	3,950	3,758	3,879	3,729
24	SCHED-RESERVATIONS	578	871	790	2,241	3,850	4,064	4,160	2,365
25	SCHED-TECHNICAL SUPPORT	1,219	1,540	1,564	1,807	1,226	948	432	1,248
26	Subtotal Ancillary Services	33,249	38,224	39,007	40,833	47,307	47,870	48,689	42,168
	O&M identified as Overhead								
27	AIRCRAFT SERVICES	608	679	921	1,135	1,121	1,082	1,205	965
28	EXECUTIVE & ADMIN SERVICES	6,726	8,594	9,311	12,407	12,179	12,204	10,364	10,255
29	GENERAL ADMINISTRATIVE	12,295	10,679	6,453	5,339	10,191	13,995	9,199	9,736
30	LEGAL SUPPORT - EXPENSE	1,893	2,038	2,401	2,305	2,609	3,034	2,240	2,360
31	LOGISTICS SERVICES	5,436	4,040	3,756	4,120	3,532	4,839	4,710	4,348
32	MKTG BUSINESS STRAT & ASSESS	3,379	3,982	5,346	6,005	6,426	6,603	6,552	5,470
33	MKTG CONTRACT MANAGEMENT	2,895	3,530	3,556	3,880	4,058	4,442	4,498	3,837
34	MKTG INTERNAL OPERATIONS	220	137	0	0	2	(1)	0	51
35	MKTG TRANSMISSION BILLING	2,840	2,027	2,698	2,048	2,226	2,229	2,528	2,371
36	MKTG TRANSMISSION FINANCE	380	392	398	305	270	286	(6)	289
37	MKTG TRANSMISSION SALES	2,673	2,055	2,298	2,356	2,319	2,787	2,509	2,428
38	SECURITY ENHANCEMENTS EXPENSE	1,026	1,226	3,186	542	482	475	705	1,092
39	Subtotal Overhead	40,372	39,379	40,324	40,443	45,417	51,975	44,504	43,202
40	Total Historical O&M	181,678	211,499	226,783	226,945	242,948	257,169	261,875	229,842

Table 4c
BPA Historical O&M Expenses FY 2007-2013 (Seven Years)
Allocation of Average Historical O&M
Lines, Substations, and Metering Locations
(\$000)

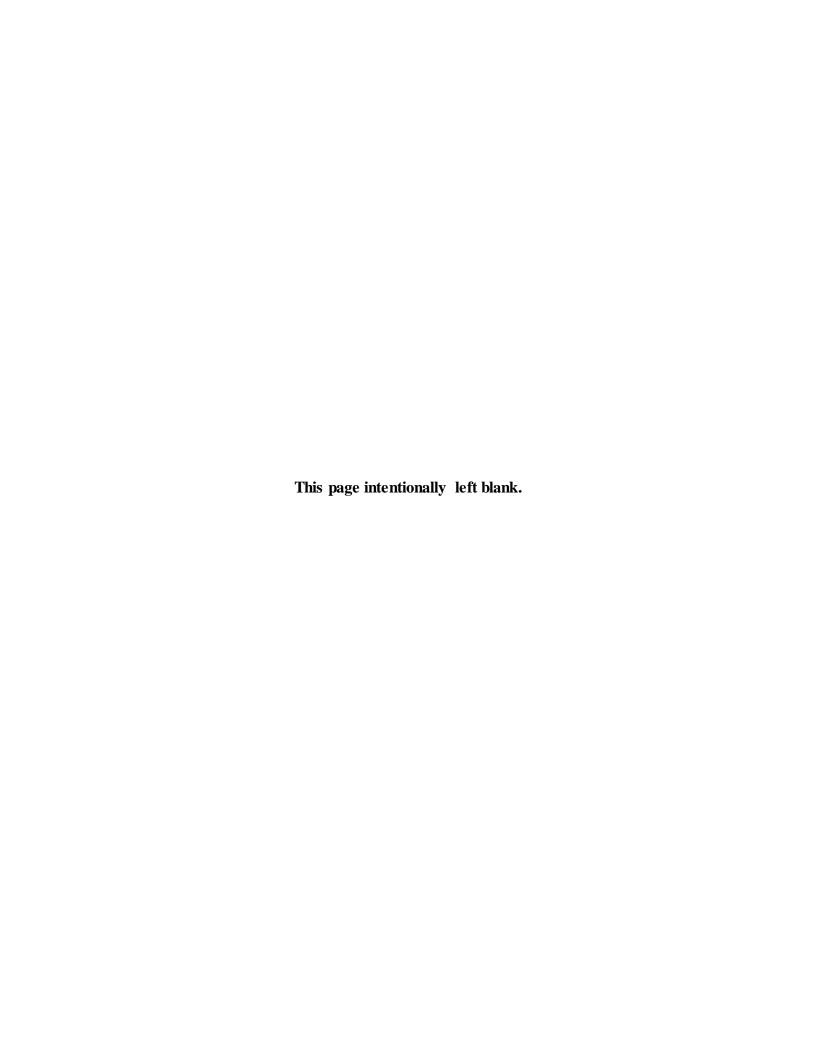
	Α	В	С	D	Е	F	G	Н	I
	_		Direct C	harges			Non-direct	Charges	
		Lines	Subs	Metering	Subtotal	Lines	Subs	Metering	Subtotal
1	SUBSTATION OPERATIONS	5	8,253	37	8,295	8	11,681	52	11,741
2	HEAVY MOBILE EQUIPMENT MAINT		5		5		54		54
3	JOINT COST MAINTENANCE		135		135		1		1
4	NON-ELECTRIC MAINTENANCE	1	6,974	20	6,995	1	10,390	36	10,427
5	POWER SYSTEM CONTROL MAINT		3,523	32	3,555		8,176	75	8,251
6	ROW MAINTENANCE 1/	15			15	7,197			7,197
7	SUBSTATION MAINTENANCE	7	15,289	57	15,353	5	9,676	37	9,718
8	SYSTEM MAINTENANCE MANAGEMENT		14		14		6,126		6,126
9	SYSTEM PROTECTION CONTRL MAINT	0	4,850	168	5,018	0	5,930	209	6,139
10	TECHNICAL TRAINING				0	346	2,004	17	2,367
11	TRANSMISSION LINE MAINTENANCE 1/	6,603	2		6,605	15,561			15,561
12	VEGETATION MANAGEMENT 1/	61			61	17,690			17,690
13	ENVIRONMENTAL ANALYSIS				0	6	33	0	40
14	POLLUTION PREVENTN & ABATEMENT		12		12		3,099		3,099
15	Total	6,692	39,056	314	46,062	40,813	57,170	427	98,410

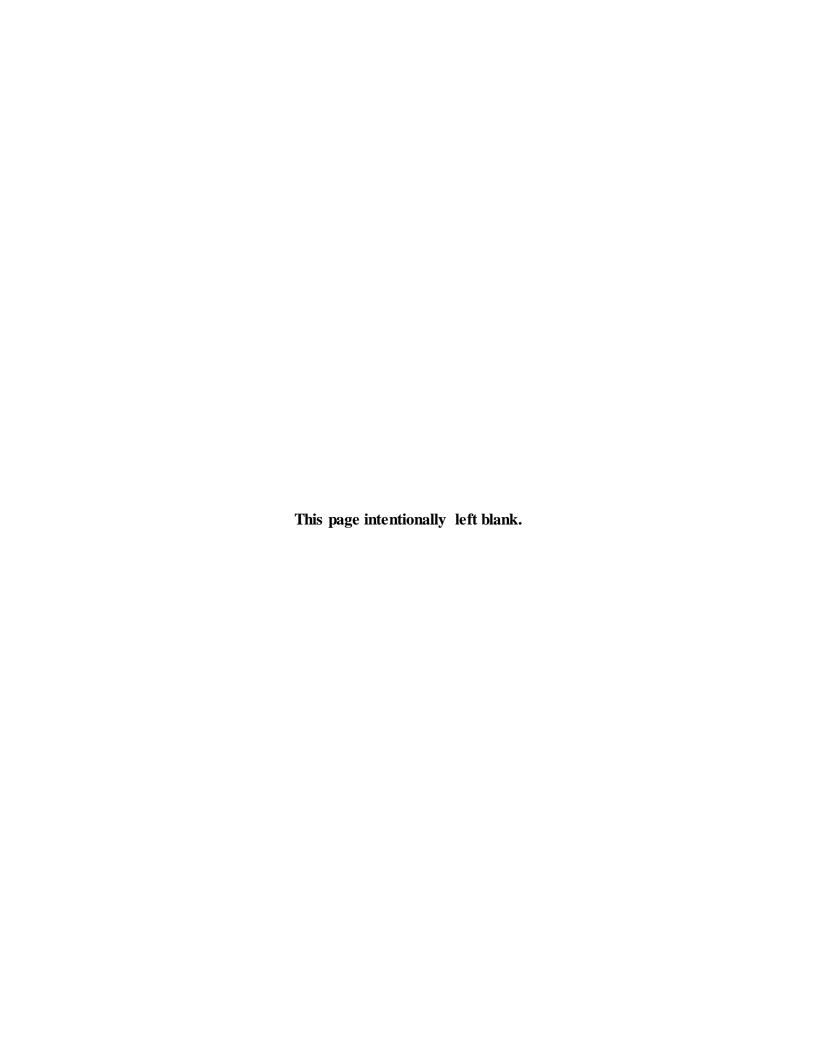
Notes:

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	В	C	D
		Generation Integration	Network	Utility Delivery
1	BOR Project Transmission Facilities:			
2	Columbia Basin (Grand Coulee) Project	180,591,020	82,101,305	2,447,740
3	Other Projects	14,288,361	2,774,736	0
4	Total BOR Projects	194,879,381	84,876,042	2,447,740
5	COE Project Transmission Facilities:			
6	Bonneville Project	30,039,120	2,700,096	0
7	TOTAL ALL PROJECTS:	224,918,502	87,576,137	2,447,740
8	TOTAL TRANSMISSION ALLOCATION:	90,023,877	97.30%	2.70%





	A	В	С	D	E
	Generation Integration Facilities	<u>s</u>			
				O&M	
	Transmission Lines	Owner	Investment (\$)	(\$)	Multi %
1	ANDERSON RANCH-MOUNTAIN HOME NO 1		4,449,861	7,766	
2	BIG CLIFF-DETROIT PH NO 1		181,340	1,732	
3	BIG CLIFF-DETROIT PH NO 2		181,340	522	
4	BLACK CANYON-EMMETT NO 1		307,180	4,002	
5	BONNEVILLE PH 1-NORTH BONNEVILLE NO 1		85,578	264	
6	BONNEVILLE PH 1-NORTH BONNEVILLE NO 2		86,775	41	
7	BONNEVILLE PH 2-NORTH BONNEVILLE NO 3		98,469	271	
8	BONNEVILLE PH 2-NORTH BONNEVILLE NO 4		1,214,223	338	
9	CHANDLER TAPTO GRANDVIEW-RED MOUNTAIN NO 1		163,062	1,659	
10	CHIEF JOSEPH PH-CHIEF JOSEPH NO 1		68,924	405	
11	CHIEF JOSEPH PH-CHIEF JOSEPH NO 2		89,376	388	
12	CHIEF JOSEPH PH-CHIEF JOSEPH NO 3		82,433	190	
13	CHIEF JOSEPH PH-CHIEF JOSEPH NO 4		78,094	105	
14	CHIEF JOSEPH PH-CHIEF JOSEPH NO 5		475,202	264	
15	CHIEF JOSEPH PH-CHIEF JOSEPH NO 6		439,561	860	
16	COLUMBIA GENERATING STATION-ASHE NO 1		330,593	157	
17	COLUMBIA GENERATING STATION-ASHE NO 2		76,075	253	=0.4
18	COUGAR-THURSTON NO 1		123,688	1,585	5%
19	DETROIT PH-DETROIT NO 1		42,262	2,493	
20	DETROIT PH-DETROIT NO 2		42,262	465	
21	DETROIT-SANTIAM NO 1		1,916,208	3,296	
22	DWORSHAK PH-DWORSHAK NO 1		1,302,296	979	
23	GREEN PETER-LEBANON NO 1		357,224	4,339	35%
24	HILLS CREEK-LOOKOUT POINT NO 1		297,360	5,732	19%
25	ICE HARBOR-FRANKLIN NO 1		587,534	8,510	001
26	ICE HARBOR-FRANKLIN NO 2		15,726	34	3%
27	ICE HARBOR-FRANKLIN NO 3		133,963	109	9%
28	JOHN DAY PH-JOHN DAY NO 1		485,647	427	
29	JOHN DAY PH-JOHN DAY NO 2		485,647	479	
30	JOHN DAY PH-JOHN DAY NO 3		485,647	401	
31	JOHN DAY PH-JOHN DAY NO 4		485,642	520	
32	LIBBY PH-LIBBY NO 1		278,220	850	
33	LIBBY PH-LIBBY NO 2		265,855	905	
34	LITTLE GOOSE PH-LITTLE GOOSE NO 1		290,246	342	
35	LOOKOUT POINT PH-LOOKOUT POINT NO 1		10,253	326	
36	LOWER GRANITE PH-LOWER GRANITE NO 1		433,123	701	
37	LOWER MONUMENTAL PH-LOWER MONUMENTAL NO 1		236,523	2,817	
38	MCNARY PH-MCNARY 3&4 NO 3		135,173	150	
39	MCNARY PH-MCNARY NO 1		76,683	203	
40	MCNARY PH-MCNARY NO 2		74,361	(1,249)	
41	MCNARY PH-MCNARY NO 5		101,717	127	
42	MCNARY PH-MCNARY NO 6		112,595	322	
43	THE DALLES PH-BIG EDDY NO 1		118,075	448	
44	THE DALLES PH-BIG EDDY NO 2		121,407	184	
45	THE DALLES PH-BIG EDDY NO 3		107,356	230	
46	THE DALLES PH-BIG EDDY NO 4		107,351	285	
47	THE DALLES PH-BIG EDDY NO 5		116,296	230	
48	THE DALLES PH-BIG EDDY NO 6		117,572	1,652	
49	Subtotal Lines		17,871,998	57,111	

Stations		A	В	С	D	Е
50 ALBEN FALLS SUBSTATION 4.245.588 50.06 4 12% 51 ASHE SUBSTATION 4.245.588 50.06 4 12% 52 BIG EDDY SUBSTATION 164.462 7.015 54 CHIEF JOSEPH POWERHOUSE #1 164.462 7.015 55 CHIEF JOSEPH H POWERHOUSE 10.2,351 11.025 56 COLUMBIA GENERATING STATION SUBSTATION (ENERGY NORTHWEST) ENW 31.314 0 75 COUGARS SUBSTATION 255.388 8.087 187 58 DETROIT SUBSTATION 190.858 5.33.0 18% 60 DWORSHAK KOWERHOUSE 190.858 5.33.0 18% 61 FOSTER SUBSTATION 42.312 5.415 25% 62 FRANKLIN SUBSTATION 42.312 5.415 25% 63 GRAND COULEE 15K KY SWITCHYARD 75.243 2.065 36 64 GRAND COULEE 830 KY SWITCHYARD 82.786 7.70 3.383 18 65 GRAND COULEE 15K KY SWITCHYARD 75.446 3.99 4.445 3.99 66 GRAND COULEE 230 KY SWITCHYARD 75.46 3.39 4.44 3.99 4.44 3.99 <th></th> <th>Generation Integration Facilities</th> <th><u>s</u></th> <th></th> <th></th> <th></th>		Generation Integration Facilities	<u>s</u>			
ASHE SUBSTATION		Stations	Owner	Investment (\$)	O&M (\$)	Multi %
52 BIG EDDY SUBSTATION 34,90.442 28,198 5% 53 BONNEVILLE POWERHOUSE 164,62 70.15 54 CHIEF JOSEPH FOWERHOUSE 102,351 11,025 5 56 CHIEF JOSEPH HOWERHOUSE 8,088,407 170,936 25% 56 COLUMBIA GENERATING STATION SUBSTATION (ENERGY NORTHWEST) BW 31,314 0 3 5 7 COUGARS SUBSTATION 255,378 8,877 7 18,026,439 25,383 18,036 11,036 18,036	50	ALBENI FALLS SUBSTATION		365,644	6,150	25%
53 BONNEVILLE POWERHOUSE 164,462 7,015 54 CHIEF JOSEHP SUBSTATION 102,951 11,025 55 CHIEF JOSEHP SUBSTATION 8,08,407 17,0396 25% 56 COLUGAR SUBSTATION 31,314 0 57 COUGAR SUBSTATION 1,062,134 3,07 58 DETROIT SUBSTATION 1,062,144 31,036 59 DWORSHAK POWERHOUSE 190,588 5,330 60 DWORSHAK ROWERHOUSE 190,588 5,330 61 FOSTER SUBSTATION 42,312 5,615 62 FRANKLIN SUBSTATION 42,312 5,615 63 GRAND COULEE 130 KV SWITCHYARD 413,657 9,162 64 GRAND COULEE 230 KV SWITCHYARD 413,657 9,162 65 GRAND COULEE 230 KV SWITCHYARD 413,657 9,162 66 GREEN HETER SUBSTATION 75,446 3,933 67 HANDORD DOJ CONDERHOUSE 333,182 8,677 70 HOUNGRY HORSE OWERHOUSE 187,533 3,799	51	ASHE SUBSTATION		4,245,588	50,064	
CHIEF JOSEPH NOWERHOUSE 8.08	52	BIG EDDY SUBSTATION		3,430,442	28,198	5%
55 CHIEF JOSEPH SUBSTATION 8,066,407 170,936 25% 65 COLUMBIA GENERATING STATION SUBSTATION (ENERGY NORTHWEST) BW 31,314 0 67 COUGAR SUBSTATION 1,062,141 31,036 58 DETROIT SUBSTATION 1,062,141 31,036 59 DWORSHAK POWER-LOUSE 190,868 5,830 60 DWORSHAK POWER-LOUSE 190,868 5,830 61 FOSTER SUBSTATION 4,2312 5,415 62 FRANKLIN SUBSTATION 42,312 5,415 63 GRAND COULEE 20X KV SWITCHYARD 15,243 2,065 64 GRAND COULEE 50X KV SWITCHYARD 413,567 9,152 65 GRAND COULEE 50X KV SWITCHYARD 413,567 9,152 66 GREEN FEIER SUBSTATION 75,446 3,383 67 HAINGRY HORSE SWITCHYARD 333,152 8,570 68 HLUSARY HORSE SWITCHYARD 333,122 8,570 70 HUNGRY HORSE SWITCHYARD 333,122 8,570 80 HUNGRY HORSE	53			164,462	7,015	
56 COLUMBIA GENERATINO STATION SUBSTATION (ENERGY NORTHWEST) BM 31,314 0 7C COLURBIA SUBSTATION 1,062,141 31,036 58 DETROIT SUBSTATION 1,968,88 5,830 60 DWORSHAK SUBSTATION 4,502,639 23,383 18% 61 FOSTER SUBSTATION 4,502,639 23,383 18% 62 FRANKLIN SUBSTATION 1,842,217 6,157 20% 63 GRAND COULEE 105 KV SWITCHYARD 82,186 770 70 65 GRAND COULEE 230 KV SWITCHYARD 25,380 5,586 71 66 GREND PETER SUBSTATION 25,380 5,586 71 9,152 666 71,580 5,586 71 1,567 9,152 8,983 71 1,567 9,152 8,983 71 1,567 9,152 1,566 9,152 1,566 3,933 1,567 9,152 1,566 3,933 1,567 9,152 1,566 3,933 1,567 9,152 1,566 3,933 1,567	54					
57 COUGAR SUBSTATION 255.378 b PETROIT SUBSTATION 8,877 b PETROIT SUBSTATION 1,06E,141 al 31,036 b 1,08,688 b 5,830 b 1,00,688 b 5,830 b 1,00,688 b 5,830 b 1,00,689 b 1				, ,	,	25%
58 DETROIT SUBSTATION 1,062,141 31,036 beloaded by the proper substation 31,008 beloaded by the proper substation 4,502,639 beloaded by the proper substation 4,2312 beloaded by the proper substation 4,502,639 beloaded by the proper substation by the proper subs			ENW		_	
59 DWORSHAK POWERHOUSE 190,658 5,830 00 DWORSHAK SUBSTATION 4,502,639 23,383 61 FOSTER SUBSTATION 42,212 5,415 62 FRANKLIN SUBSTATION 1,842,217 61,577 20% 63 GRAND COULEE 230 KV SWITCHYARD 82,186 770 70 66 GRAND COULEE 230 KV SWITCHYARD 257,380 5,388 70 66 GREEN PETER SUBSTATION 257,380 5,388 70 67 HANFORD NO.2 CONSTRUCTION SUBSTATION 374,351 9,095 333,182 8,570 68 HILLS CREEK SUBSTATION 374,351 9,095 905	-			,	,	
DMORSHAK SUBSTATION				, ,	,	
FOSTER SUBSTATION				,	,	
FRANKLIN SURSTATION	60	DWORSHAK SUBSTATION		4,502,639	23,383	18%
63 GRAND COULEE 115 KV SWITCHYARD 82,186 770 64 GRAND COULEE 230 KV SWITCHYARD 82,186 770 65 GRAND COULEE 500 KV SWITCHYARD 413,567 9,152 66 GREEN PETER SUBSTATION 257,380 5,388 67 HANFORD NO.2 CONSTRUCTION SUBSTATION 374,351 9,095 68 HILLS CREEK SUBSTATION 374,351 9,095 70 HUNGRY HORSE POWERHOUSE 333,182 8,570 71 ICE HARBOR POWERHOUSE 187,633 3,799 72 JOHN DAY SUBSTATION 10,714,315 73,792 24% 73 JOHN DAY SUBSTATION 10,714,315 73,792 24% 74 LIBBY POWERHOUSE 296,321 66,577 33% 75 LIBBY SUBSTATION BPA) 2,936,321 66,577 33% 76 LITLE GOOSE POWERHOUSE 28,750 384 77 LITLE GOOSE SUBSTATION 2,946,610 19,014 20% 78 LOOKOUT POINT SUBSTATION 2,953,323 455	61	FOSTER SUBSTATION		42,312	5,415	
64 GRAND COULEE 230 KV SWITCHYARD 82,186 770 65 GRAND COULEE 500 KV SWITCHYARD 413,567 9,152 66 GREN PETER SUBSTATION 257,380 5,368 67 HANFORD NO.2 CONSTRUCTION SUBSTATION 374,4351 3,993 68 HILLS CREEK SUBSTATION 374,351 9,905 69 HUNGRY HORSE POWERHOUSE 333,182 8,570 70 HUNGRY HORSE SWITCHYARD 89,046 0 71 ICE HARBOR POWERHOUSE 187,633 3,799 72 JOHN DAY POWERHOUSE 187,633 3,799 73 JOHN DAY SUBSTATION 10,714,315 73,792 24% 74 LIBBY POWERHOUSE 1112,091 3,663 3 75 LIBBY SUBSTATION(BPA) 2,936,321 66,77 33% 76 LITTLE GOOSE SUBSTATION 2,496,610 19,014 20% 78 LOOKOUT POINT SUBSTATION 53,632 7,518 25% 80 LOST CREEK POWERHOUSE 53,632 7,518 25% <	-				61,577	20%
65 GRAND COULEE 500 KV SWITCHYARD 413,567 SP,380 S,368 S,	63	GRAND COULEE 115 KV SWITCHY ARD		75,243	2,065	
66 GREEN PETER SUBSTATION 257,380 5,368 7 HANFORD NO.2 CONSTRUCTION SUBSTATION 75,446 3,993 68 HILLS CREEK SUBSTATION 374,351 9,095 69 HUNGRY HORSE POWERHOUSE 333,182 8,570 70 HUNGRY HORSE SWITCHYARD 89,046 0 71 ICE HARBOR POWERHOUSE 187,633 3,799 72 JOHN DAY POWERHOUSE 10,714,315 73,792 24% 73 JOHN DAY SUBSTATION 10,714,315 73,792 24% 74 LIBBY POWERHOUSE 112,091 3,663 75 LIBBY SUBSTATION(BPA) 2,936,321 66,577 33% 76 LITTLE GOOSE SUBSTATIONS 2,496,610 19,014 20% 78 LOOKOUT POINT SUBSTATION 553,632 7,518 25% 81 LOWER GRANITE POWERHOUSE 363,331 1,206 82 LOWER GRANITE POWERHOUSE 368,331 1,206 83 LOWER MONUMENTAL SUBSTATION 2,255,228 13,916 12% <	64				770	
HANFORD NO.2 CONSTRUCTION SUBSTATION 37,4351 3,993 3,905 3,905 4,005 3,905 4,005 3,905 4,0	65	GRAND COULEE 500 KV SWITCHYARD		413,567	9,152	
68 HILLS CREEK SUBSTATION 374,351 9,095 69 HUNGRY HORSE POWERHOUSE 333,182 8,570 70 HUNGRY HORSE SWITCHYARD 89,046 0 71 ICE HARBOR POWERHOUSE 187,633 3,799 72 JOHN DAY POWERHOUSE 276,948 185 73 JOHN DAY SUBSTATION 10,714,315 73,792 24% 74 LIBBY POWERHOUSE 112,091 3,663 36 75 LIBBY SUBSTATION(BPA) 2,936,321 66,577 336 76 LITTLE GOOSE POWERHOUSE 489,782 1,746 77 LITTLE GOOSE SUBSTATION 2,496,610 19,014 20% 78 LOOKOUT POINT POWERHOUSE 53,123 495 80 LOST CREEK POWERHOUSE 53,123 495 81 LOWER GRANITE SUBSTATION 2,095,395 26,432 25% 82 LOWER GRANITE SUBSTATION 2,095,395 26,432 25% 83 LOWER MONLMENTAL POWERHOUSE 393,152 1,989 84 LOWER MONLMENTAL SUBSTATION 2,255,288 13,916 12% 85 MCNARY SUBSTATION 5,959,309 47,694 12% <td>66</td> <td></td> <td></td> <td>257,380</td> <td>5,368</td> <td></td>	66			257,380	5,368	
HUNGRY HORSE POWERHOUSE 333,182 8,570 1	67	HANFORD NO.2 CONSTRUCTION SUBSTATION		75,446	3,993	
HUNGRY HORSE SWITCHYARD	68			374,351	9,095	
Table Tabl	69				8,570	
72 JOHN DAY POWERHOUSE 276,948 185 73 JOHN DAY SUBSTATION 10,714,315 73,792 24% 74 LIBBY POWERHOUSE 112,091 3,663 1 75 LIBBY SUBSTATION(BPA) 2,936,321 66,577 33% 76 LITTLE GOOSE POWERHOUSE 489,782 1,746 77 LITTLE GOOSE SUBSTATION 2,496,610 19,014 20% 78 LOOKOUT POINT POWERHOUSE 28,750 384 25% 80 LOST CREEK POWERHOUSE 553,632 7,518 25% 80 LOST CREEK POWERHOUSE 368,331 1,206 81 LOWER GRANITE SUBSTATION 2,095,395 26,432 25% 81 LOWER MONUMENTAL POWERHOUSE 393,152 1,989 2 84 LOWER MONUMENTAL SUBSTATION 2,255,228 13,916 12% 85 MCNARY POWERHOUSE 147,898 8,063 4 86 MCNARY SUBSTATION 5,959,309 47,694 12% 87	-				-	
73	71	ICE HARBOR POWERHOUSE		187,633	3,799	
74 LIBBY POWERHOUSE 112,091 3,663 75 LIBBY SUBSTATION(BPA) 2,936,321 66,577 33% 76 LITTLE GOOSE POWERHOUSE 489,782 1,746 77 LITTLE GOOSE SUBSTATION 2,496,610 19,014 20% 78 LOOKOUT POINT POWERHOUSE 28,750 384 79 LOOKOUT POINT SUBSTATION 553,632 7,518 25% 80 LOST CREEK POWERHOUSE 53,123 495 81 LOWER GRANITE POWERHOUSE 368,331 1,206 82 LOWER MONLIMENTAL POWERHOUSE 393,152 1,989 83 LOWER MONLIMENTAL SUBSTATION 2,255,228 13,916 12% 85 MCNARY POWERHOUSE 245,608 4,110 86 MCNARY SUBSTATION 5,959,309 47,694 12% 87 MINIDOKA POWERHOUSE 147,898 8,063 88 MOUNTAIN HOME SUBSTATION 4,146,013 62,961 37% 90 PALISADES POWERHOUSE 620,267 7,170	72			276,948	185	
The column	73	JOHN DAY SUBSTATION		10,714,315	73,792	24%
Title Goose Powerhouse		LIBBY POWERHOUSE		112,091	3,663	
Title Goose Substation 19,014 20% 2496,610 19,014 20% 28,750 384 25% 28,750 384 25%					66,577	33%
COCKOUT POINT POWERHOUSE 28,750 384 79 LOCKOUT POINT SUBSTATION 553,632 7,518 25% 80 LOST CREEK POWERHOUSE 53,123 495 81 LOWER GRANITE POWERHOUSE 368,331 1,206 82 LOWER GRANITE SUBSTATION 2,095,395 26,432 25% 83 LOWER MONLIMENTAL POWERHOUSE 393,152 1,989 84 LOWER MONLIMENTAL POWERHOUSE 393,152 1,989 85 MCNARY POWERHOUSE 245,608 4,110 86 MCNARY POWERHOUSE 245,608 4,110 86 MCNARY SUBSTATION 5,959,309 47,694 12% 87 MINIDOKA POWERHOUSE 147,898 8,063 88 MOUNTAIN HOME SUBSTATION 5,959,309 47,694 12% 89 NORTH BONNEVILLE SUBSTATION 4,146,013 62,961 37% 90 PALISADES POWERHOUSE 620,267 7,170 91 ROZA POWERHOUSE 23,450 0 92 SACAJAWEA SUBSTATION 187,186 455 1% 93 SANTIAM SUBSTATION 775,593 13,232 5% 94 THE DALLES POWERHOUSE 53,426 2,716 95 WPPSS NO. 2 POWERHOUSE ENW 463,746 9,481 96 Subtotal Stations 61,762,330 839,828 839,828 80 80 80 80 80 80 80	_			, -	,	
Top Cockout Point Substation 553,632 7,518 25% 10 25% 25						20%
BO	_					
81 LOWER GRANITE POWERHOUSE 368,331 1,206 82 LOWER GRANITE SUBSTATION 2,095,395 26,432 25% 83 LOWER MONUMENTAL POWERHOUSE 393,152 1,989 84 LOWER MONUMENTAL SUBSTATION 2,255,228 13,916 12% 85 MCNARY POWERHOUSE 245,608 4,110 86 MCNARY SUBSTATION 5,959,309 47,694 12% 87 MINIDOKA POWERHOUSE 147,898 8,063 88 MOUNTAIN HOME SUBSTATION(BPA) 174,369 14,710 89 NORTH BONNEVILLE SUBSTATION 4,146,013 62,961 37% 90 PALISADES POWERHOUSE 23,450 0 91 ROZA POWERHOUSE 23,450 0 92 SACAJAWEA SUBSTATION 187,186 455 1% 93 SANTIAM SUBSTATION 775,593 13,232 5% 94 THE DALLES POWERHOUSE 53,426 2,716 95 WPPSS NO. 2 POWERHOUSE ENW 463,746 9,481 96 Subtotal Stations 61,762,330 839,828				· ·	•	25%
82 LOWER GRANITE SUBSTATION 2,095,395 26,432 25% 83 LOWER MONUMENTAL POWERHOUSE 393,152 1,989 84 LOWER MONUMENTAL SUBSTATION 2,255,228 13,916 12% 85 MCNARY POWERHOUSE 245,608 4,110 86 MCNARY SUBSTATION 5,959,309 47,694 12% 87 MINIDOKA POWERHOUSE 147,898 8,063 88 MOUNTAIN HOME SUBSTATION(BPA) 174,369 14,710 89 NORTH BONNEVILLE SUBSTATION 4,146,013 62,961 37% 90 PALISADES POWERHOUSE 620,267 7,170 91 ROZA POWERHOUSE 23,450 0 92 SACAJAWEA SUBSTATION 187,186 455 1% 93 SANTIAM SUBSTATION 775,593 13,232 5% 94 THE DALLES POWERHOUSE 53,426 2,716 95 WPPSS NO. 2 POWERHOUSE ENW 463,746 9,481 96 Subtotal Stations 61,762,330 839,828						
83 LOWER MONUMENTAL POWERHOUSE 393,152 1,989 84 LOWER MONUMENTAL SUBSTATION 2,255,228 13,916 12% 85 MCNARY POWERHOUSE 245,608 4,110 86 MCNARY SUBSTATION 5,959,309 47,694 12% 87 MINIDOKA POWERHOUSE 147,898 8,063 88 MOUNTAIN HOME SUBSTATION(BPA) 174,369 14,710 89 NORTH BONNEVILLE SUBSTATION 4,146,013 62,961 37% 90 PALISADES POWERHOUSE 620,267 7,170 91 ROZA POWERHOUSE 23,450 0 92 SACAJAWEA SUBSTATION 187,186 455 1% 93 SANTIAM SUBSTATION 775,593 13,232 5% 94 THE DALLES POWERHOUSE 53,426 2,716 95 WPPSS NO. 2 POWERHOUSE ENW 463,746 9,481 96 Subtotal Stations 61,762,330 839,828						
84 LOWER MONUMENTAL SUBSTATION 2,255,228 13,916 12% 85 MCNARY POWERHOUSE 245,608 4,110 86 MCNARY SUBSTATION 5,959,309 47,694 12% 87 MINIDOKA POWERHOUSE 147,898 8,063 88 MOUNTAIN HOME SUBSTATION(BPA) 174,369 14,710 89 NORTH BONNEVILLE SUBSTATION 4,146,013 62,961 37% 90 PALISADES POWERHOUSE 620,267 7,170 91 ROZA POWERHOUSE 23,450 0 92 SACAJAWEA SUBSTATION 187,186 455 1% 93 SANTIAM SUBSTATION 775,593 13,232 5% 94 THE DALLES POWERHOUSE 53,426 2,716 95 WPPSS NO. 2 POWERHOUSE ENW 463,746 9,481 96 Subtotal Stations 61,762,330 839,828	_			, ,		25%
85 MCNARY POWERHOUSE 245,608 4,110 86 MCNARY SUBSTATION 5,959,309 47,694 12% 87 MINIDOKA POWERHOUSE 147,898 8,063 88 MOUNTAIN HOME SUBSTATION(BPA) 174,369 14,710 89 NORTH BONNEVILLE SUBSTATION 4,146,013 62,961 37% 90 PALISADES POWERHOUSE 620,267 7,170 91 ROZA POWERHOUSE 23,450 0 92 SACAJAWEA SUBSTATION 187,186 455 1% 93 SANTIAM SUBSTATION 775,593 13,232 5% 94 THE DALLES POWERHOUSE 53,426 2,716 95 WPPSS NO. 2 POWERHOUSE ENW 463,746 9,481 96 Subtotal Stations 61,762,330 839,828				,		
86 MCNARY SUBSTATION 5,959,309 47,694 12% 87 MINIDOKA POWERHOUSE 147,898 8,063 88 MOUNTAIN HOME SUBSTATION(BPA) 174,369 14,710 89 NORTH BONNEVILLE SUBSTATION 4,146,013 62,961 37% 90 PALISADES POWERHOUSE 620,267 7,170 91 ROZA POWERHOUSE 23,450 0 92 SACAJAWEA SUBSTATION 187,186 455 1% 93 SANTIAM SUBSTATION 775,593 13,232 5% 94 THE DALLES POWERHOUSE 53,426 2,716 95 WPPSS NO. 2 POWERHOUSE ENW 463,746 9,481 96 Subtotal Stations 61,762,330 839,828	-			, ,	,	12%
87 MINIDOKA POWERHOUSE 147,898 8,063 88 MOUNTAIN HOME SUBSTATION(BPA) 174,369 14,710 89 NORTH BONNEVILLE SUBSTATION 4,146,013 62,961 37% 90 PALISA DES POWERHOUSE 620,267 7,170 91 ROZA POWERHOUSE 23,450 0 92 SACAJAWEA SUBSTATION 187,186 455 1% 93 SANTIAM SUBSTATION 775,593 13,232 5% 94 THE DALLES POWERHOUSE 53,426 2,716 95 WPPSS NO. 2 POWERHOUSE ENW 463,746 9,481 96 Subtotal Stations 61,762,330 839,828					,	4007
88 MOUNTAIN HOME SUBSTATION(BPA) 174,369 14,710 89 NORTH BONNEVILLE SUBSTATION 4,146,013 62,961 37% 90 PALISA DES POWERHOUSE 620,267 7,170 91 ROZA POWERHOUSE 23,450 0 92 SACAJAWEA SUBSTATION 187,186 455 1% 93 SANTIAM SUBSTATION 775,593 13,232 5% 94 THE DALLES POWERHOUSE 53,426 2,716 95 WPPSS NO. 2 POWERHOUSE ENW 463,746 9,481 96 Subtotal Stations 61,762,330 839,828				, ,		12%
89 NORTH BONNEVILLE SUBSTATION 4,146,013 62,961 37% 90 PALISA DES POWERHOUSE 620,267 7,170 91 ROZA POWERHOUSE 23,450 0 92 SACAJAWEA SUBSTATION 187,186 455 1% 93 SANTIAM SUBSTATION 775,593 13,232 5% 94 THE DALLES POWERHOUSE 53,426 2,716 95 WPPSS NO. 2 POWERHOUSE ENW 463,746 9,481 96 Subtotal Stations 61,762,330 839,828					,	
90 PALISA DES POWERHOUSE 620,267 7,170 91 ROZA POWERHOUSE 23,450 0 92 SACAJAWEA SUBSTATION 187,186 455 1% 93 SANTIAM SUBSTATION 775,593 13,232 5% 94 THE DALLES POWERHOUSE 53,426 2,716 95 WPPSS NO. 2 POWERHOUSE ENW 463,746 9,481 96 Subtotal Stations 61,762,330 839,828						070/
91 ROZA POWERHOUSE 23,450 0 92 SA CAJAWEA SUBSTATION 187,186 455 1% 93 SANTIAM SUBSTATION 775,593 13,232 5% 94 THE DALLES POWERHOUSE 53,426 2,716 95 WPPSS NO. 2 POWERHOUSE ENW 463,746 9,481 96 Subtotal Stations 61,762,330 839,828						3/%
92 SACAJAWEA SUBSTATION 187,186 455 1% 93 SANTIAM SUBSTATION 775,593 13,232 5% 94 THE DALLES POWERHOUSE 53,426 2,716 95 WPPSS NO. 2 POWERHOUSE ENW 463,746 9,481 96 Subtotal Stations 61,762,330 839,828					,	
93 SANTIAM SUBSTATION 775,593 13,232 5% 94 THE DALLES POWERHOUSE 53,426 2,716 95 WPPSS NO. 2 POWERHOUSE ENW 463,746 9,481 96 Subtotal Stations 61,762,330 839,828				,	_	40/
94 THE DALLES POWERHOUSE 53,426 2,716 95 WPPSS NO. 2 POWERHOUSE ENW 463,746 9,481 96 Subtotal Stations 61,762,330 839,828	-			,		
95 WPPSS NO. 2 POWERHOUSE ENW 463,746 9,481 96 Subtotal Stations 61,762,330 839,828						5%
96 Subtotal Stations 61,762,330 839,828	-		EN 11.47		,	
			⊏INVV			
97 Total Generation Integration 79,634,329 896,939						
	97	I otal Generation Integration		79,634,329	896,939	

Α С D E **Network Facilities** Owner Investment (\$) O&M (\$) Multi% **Transmission Lines** 98 ABERDEEN TAP TO SATSOP PARK-COSMOPOLIS NO 1 1,597,354 3,937 ACORD TAPTO GRANDVIEW-RED MOUNTAIN NO 1 256,732 99 ADAIR TAPTO SALEM-ALBANY NO 2 100 51,854 163 2,024 ADDY-COLVILLE NO 1 42,251 101 102 ADDY-CUSICK NO 1 4.903.855 9.426 ALBANY-BURNT WOODS NO 1 103 4,242,922 7,808 ALBANY-EUGENE NO 1 104 6,655,116 20,247 ALBANY-LEBANON NO 1 105 1,084,819 11,915 ALBENI FALLS-PINE STREET NO 1 106 329,901 2,075 ALBENI FALLS-SAND CREEK NO 1 11,194,113 19,473 107 ALCOA-FELIDA NO 1 108 36,090 659 ALLSTON-CLATSOP NO 1 109 2,810,270 24,291 110 ALLSTON-DRISCOLL NO 1 1,423,237 6,575 111 ALLSTON-DRISCOLL NO 2 2,451,351 27,520 ALVEY 500/230 KV TIE LINE NO 1 112 347,565 324 113 ALVEY-FAIRVIEW NO 1 9,278,276 68,571 114 ALVEY-LANENO 1 1,378,137 5,278 ALVEY-MARTIN CREEK NO 1 115 210,421 2,796 ANACONDA-SILVER BOW NO 1 11,583 116 646,120 ANTELOPE-FOSSIL (LEASED FACILITIES) 117 16,642,388 ASHE TAP TO MIDWAY-HEW NO 2 1,011 118 83,431 ASHE-HANFORD NO 1 119 5,509,091 3,997 120 ASHE-MARION NO 2 84,482,812 110,388 ASHE-SLATT NO 1 121 25,272,636 20,637 122 ASHE-WHITE BLUFFS NO 1 1,215,881 1,589 1,510 123 BADGER CANYON-REATA NO 1 352,148 124 BADGER CANYON-RICHLAND NO 1 604,812 1,117 BAKERS CORNER TAP TO LEXINGTON-LONGVIEW NO 1 125 260,047 0 126 BALD MOUNTAIN TAPTO UNDERWOOD TAP 119,704 127 BANDON SUBSTATION TRANSFORMER TIE 1 30,869 1,810 128 BANDON-ROGUE NO 1 9,558,189 20,732 BELFAIR TAP TO SHELTON-KITSAP NO 2 129 1,313 0 130 BELL-ADDY NO 1 4,921,055 8,769 6,153,516 131 BELL-BOUNDARY NO 1 22,984 132 BELL-BOUNDARY NO 3 29,044,903 39,232 133 BELLINGHAM-CUSTER NO 1 149,475 1,795 134 BELL-LANCASTER NO 1 2,437,602 6,967 135 BELL-TRENTWOOD NO 1 734,045 6,154 136 BELL-TRENTWOOD NO 2 594,517 4,377 9,770 137 BELL-USK NO 1 1,831,208 BENTON-451B NO 1 138 247,991 1,703 BENTON-DOE B3-S4 NO 1 139 162,956 1,367 140 BENTON-FRANKLIN NO 1 7,189,560 3,222 BENTON-FRANKLIN NO 2 141 606,950 10,547 142 BENTON-OTHELLO NO 1 1,336 318,857 143 BENTON-SCOOTENEY NO 1 12,141 936,782 144 BERTELSEN-WILLOW CREEK NO 1 85,814 552 BETTAS ROAD-COLUMBIA NO 1 145 792,557 1,544 35,461 146 BIG EDDY-CHEMAWA NO 1 3,468,845 147 BIG EDDY-CHENOWETH NO 1 885,593 3,907 BIG EDDY-CHENOWETH NO 2 148 1,381,639 1,878 BIG EDDY-DE MOSS NO 1 149 930,405 16,187 BIG EDDY-MCLOUGHLIN 1&2 NO 1 150 4,965,983 12,215 151 BIG EDDY-MCLOUGHLIN 1&2 NO 2 1,764,192 6,354 BIG EDDY-OSTRANDER NO 1 11,925,415 20,220 152 153 BIG EDDY-REDMOND NO 1 5,590,842 37,841 154 BIG EDDY-SPRING CREEK NO 1 3,032,156 20,249 155 BIG EDDY-THE DALLES FISHWAY HYDRO PLANT 2.955.999 0 BIG EDDY-TROUTDALE NO 1 75,435 156 7.891.672 157 BLUE RIVER TAP TO COUGAR-THURSTON NO 1 27,530 5,963 BOARDMAN TAPTO MCNARY-JONES CANYON NO 1 268 158 61,136 BOARDMAN-IONE NO 1 7,559 159 898,335 BOARDMAN-TOWER ROAD NO 1 160 645,689 1,227 BONNEVILLE PH 1-HOOD RIVER NO 1 4,101,114 24,173 161 5,232 162 BONNEVILLE PH 1-NORTH CAMAS NO 1 453,835 BONNEVILLE PH1-ALCOA 1&2 163 1,008,644 8,782 BOTHELL-SAMMAMISH (PSE) 164 575.499 0 165 BOTHELL-SNO-KING NO 1 415,901 129

Ε Α С D **Network Facilities** Owner Investment (\$) O&M (\$) Multi% **Transmission Lines** 166 BOTHELL-SNO-KING NO 2 693.960 464 167 **BOUNDARY-NELWAY 1** 263,960 2,894 **BOUNDARY-WANETA 1** 168 117,328 313 BOYER-TILLAMOOK NO 1 23,434 2,787,175 169 170 BRASADA-HARNEY NO 1 3.101.653 42.607 BRONX-SAND CREEK NO 1 171 2,622,656 1,459 **BUCKLEY-GRIZZLY NO 1** 7,514,539 172 4,285 43% **BUCKLEY-MARION NO 1** 20,369,871 173 17,796 50% BURBANK TAPTO FRANKLIN-WALLA WALLA NO 1 174 2,665 105 175 CALPINE-MCNARY NO 1 428,117 3,906 176 CANAL-SECOND LIFT NO 1 25,231 222 CANAL-SECOND LIFT NO 2 177 19,804 16 178 CANBY TAPTO MALIN-HILLTOP NO1 2,144,365 2,624 179 CARDWELL-COWLITZ NO 1 4,096,304 1,720 CARLTON-MCMINNVILLE NO 1 180 463,769 421 181 CARLTON-SHERWOOD NO 1 2,102,679 2,612 182 CARLTON-TILLAMOOK NO 1 8,866,407 38,913 CARSON TAPTO UNDERWOOD TAP 183 267,329 1,623 184 CASCADE LOCKS TAP TO BONNEVILLE PH 1-HOOD RIVER NO 1 7,085 665 185 CENTRALIA TAP TO CHEHALIS-COVINGTON NO 1 1,753 1,162 CENTRALIA-MAY STREET NO 1 186 167,108 553 CGS BACKUP BANK TAP TO BENTON - 451B NO 1 187 686 224,495 188 CHEHALIS-CENTRALIA NO 1 5,113,105 3,746 CHEHALIS-CENTRALIA NO 2 4,383 189 7,154,275 190 CHEHALIS-COVINGTON NO 1 2,235,062 47,629 191 CHEHALIS-MAYFIELD NO 1 1,576,880 11,562 192 CHEHALIS-OLYMPIA NO 1 2,507,120 15,470 CHEHALIS-RAYMOND NO 1 15,303,992 22,510 193 194 CHEMAWA-SALEM ALUMINA NO 1 299,492 2,308 195 CHEMAWA-SALEM NO 1 4,761,205 4,991 196 CHEMAWA-SALEM NO 2 302,519 4,305 197 CHENEY TAP TO SILVER LAKE-SUNSET 381,384 5,893 CHENOWETH-GOLDENDALE NO 1 198 1,375,378 12,912 199 CHIEF JOSEPH-EAST OMAK NO 1 5,148,496 18,435 CHIEF JOSEPH-MONROE NO 1 200 23,730,487 82,890 CHIEF JOSEPH-SICKLER NO 1 201 5,357,719 37,270 CHIEF JOSEPH-SNOHOMISH NO 3 202 7,939,299 41,462 203 CHIEF JOSEPH-SNOHOMISH NO 4 9,240,347 32,659 CHRISTMAS VALLEY TAP TO BRASADA-HARNEY NO 1 204 1,640 30 COLUMBIA FALLS-CONKELLEY NO 1 205 72,714 2,687 COLUMBIA FALLS-FLATHEAD NO 1 756,209 206 2,614 COLUMBIA FALLS-KALISPELL NO 1 207 411,651 4,248 COLUMBIA FALLS-TREGO NO 1 208 1,606,188 27,015 COLUMBIA-ELLENSBURG NO 1 209 6,426,552 7,498 COLUMBIA-GRAND COULEE NO 1 22,790 210 1,417,945 COLUMBIA-GRAND COULEE NO 3 14,095 211 1,722,738 212 COLUMBIA-VALHALLA NO 1 207,161 3,541 COLUMBIA-VALHALLA NO 2 3,186 213 534,449 214 COLVILLE-BOUNDARY NO 1 4,878,645 5,718 215 COLVILLE-REPUBLIC NO 1 10,330,859 26,821 CONNELL TAP TO BENTON-SCOOTENEY NO 1 216 190,017 1,941 COSMOPOLIS-ABERDEEN NO 1 217 6,928 156 COUGAR-THURSTON NO 1 95% 218 2,159,286 27,674 COVINGTON SUBSTATION TIE NO 2 219 17,720 247 COVINGTON-BETTAS ROAD NO 1 220 1,742,283 19,215 221 COVINGTON-CRESTON SCL NO 1 398,640 3,172 222 COVINGTON-DUWAMISH NO 1 752,610 3,792 223 COVINGTON-MAPLE VALLEY NO 2 1.129.206 12.738 COVINGTON-WHITE RIVER NO 1 224 216,902 3,721 225 COWLITZ TAP TO CHEHALIS-COVINGTON NO 1 736,747 5,962 COYOTE SPRINGS-SLATT NO 1 88% 226 3,944 2,352,112 17,468 227 8,238,831 CRESTON-BELL NO 1 CRESWELL TAPTO ALVEY-MARTIN CREEK NO 1 228 92,141 Λ 229 CUSTER-INGLEDOW NO 1 7,036,672 2,556 230 CUSTER-INGLEDOW NO 2 3,518 1,768,518 231 CUSTER-INTALCO NO 1 497,585 2,615 CUSTER-INTALCO NO 2 531.003 232 1.828 DAVIS CREEK TAPTO MILE-HI-ALTURAS 233 208,342 5,012

Ε Α С n **Network Facilities** Owner Investment (\$) O&M (\$) Multi% **Transmission Lines** 234 DE MOSS-FOSSIL NO 1 1,809,709 31,673 DEXTER TAP TO LOOKOUT POINT-ALVEY NO 1 27,559 235 949 DISCOVERY-CHENOWETH NO 1 199 236 8,490 237 DOE B3-S4-WHITE BLUFFS NO 1 557,626 1,727 238 DORENA TAPTO ALVEY-MARTIN CREEK NO. 1 221.415 2,500 239 DRAIN-ELKTON NO 1 843 0 DRAIN-OAKLAND NO 1 240 843 0 241 DRISCOLL-ASTORIA NO 1 4.149.463 2.498 DRISCOLL-NA SELLE NO 1 24,575 242 4,096,106 243 DRISCOLL-WAUNA NO 1 28,015 95 244 DRUMMOND - MACKS INN NO 1 563,741 28,258 DUTCH CANYON TAP TO ST JOHNS-ST HELENS NO 1 245 139 247 246 DWORSHAK PH-OROFINO NO 1 205,764 773 247 DWORSHAK-TAFT NO 1 22,069,794 30,468 248 EAST ELLENSBURG TAP TO COLUMBIA-ELLENSBURG NO 1 (KITTITAS C 356,552 682 249 EAST OMAK TAP TO GRAND COULEE-FOSTER CREEK NO 1 5,127,081 3,236 EAST OMAK-OROVILLE NO 1 250 13,684 4,185 EAST OMAK-TONASKET NO 2 251 13,691 2,485 252 ECHO LAKE - MAPLE VALLEY NO 1 & 2 11,222,945 18,121 253 ECHO LAKE-MONROE NO 1 4,938,957 10,132 254 ELBE TAP TO ALDER-LAGRANDE NO1,2 1,867,188 4,493 255 ELLENSBURG-MOXEE NO 1 19,283 4,540,019 256 ELTOPIA TAP TO SMITH CANYON-REDD 415,578 1,061 EUGENE-ALDERWOOD NO 1 7,479 257 3,965,075 258 EUGENE-ALVEY NO 2 913,760 8,153 1,704 259 EUGENE-BERTELSEN NO 1 58,755 260 EUGENE-LANE NO 1 111,977 3,624 FAIRMOUNT-PORT ANGELES NO 1 261 1,878,901 8,087 262 FAIRMOUNT-PORT ANGELES NO 2 1,529,338 12,948 263 FAIRVIEW-BANDON NO 1 1,682,809 15,803 264 FAIRVIEW-BANDON NO 2 2,199,172 7,466 265 FAIRVIEW-ROGUE NO 1 6,893,302 21,293 FIDALGO-LOPEZ ISLAND NO 3 266 1,929,609 1,612 FIDALGO-LOPEZ ISLAND NO 4 4,794,685 267 0 FIDALGO-LOPEZ ISLAND NO 5 268 13,833,755 1,085 FILBERT TAP TO FOREST GROVE-MCMINNVILLE NO 1 269 290,501 446 FLATHEAD-HOT SPRINGS NO 1 FORDS PRAIRIE TAP TO CHEHALIS-CENTRALIA NO 2 270 3,257,393 14,310 271 23,009 162 FOREST GROVE-MCMINNVILLE NO 1 272 1,632,477 8,916 FOREST GROVE-TILLAMOOK NO 1 273 8,810,255 12,312 FOSTER TAP TO GREEN PETER-LEBANON NO 1 274 254,650 4,872 FOUR LAKES TAP TO SUNSET-EAST COLFAX 275 238,110 3,583 FRANKLIN-BADGER CANYON NO 1 276 1,733,993 3,040 FRANKLIN-BADGER CANYON NO 2 277 2,166,381 5,089 FRANKLIN-HEDGES NO 1 1,443 278 296,680 279 FRANKLIN-RUBY STREET NO 1 1,347,949 1,985 FRANKLIN-WALLA WALLA NO 1 280 6,177,770 8,528 FROMAN TAP TO ALBANY-LEBANON NO 1 592,229 281 525 282 GARRISON-ANACONDA NO 1 5,153,222 21,355 283 GARRISON-TAFT NO 1 86,218,545 60,229 GARRISON-TAFT NO 2 284 86,218,545 31,430 285 GLADE TAP TO BENTON-FRANKLIN NO 2 716 16,291,283 GOSHEN-DRUMMOND NO 1 286 44,509 GRAND COULEE-BELL NO 3 4,308,352 50,250 287 GRAND COULEE-BELL NO 5 288 4,113,496 17,592 289 GRAND COULEE-BELL NO 6 104,017,288 18,427 GRAND COULEE-CHIEF JOSEPH NO 1 290 1,626,847 8,719 GRAND COULEE-CHIEF JOSEPH NO 2 GRAND COULEE-CHIEF JOSEPH NO 3 291 1.968.429 8.267 292 6,376 4,100,432 293 GRAND COULEE-CRESTON NO 1 1,479,628 9,653 294 GRAND COULEE-FOSTER CREEK NO 1 800,764 7,035 295 GRAND COULEE-HANFORD NO 1 12,282,324 35,011 296 GRAND COULEE-OKANOGAN NO 2 1,713,694 40,618 297 GRAND COULEE-SCHULTZ NO 1 31,696,784 54,507 298 GRAND COULEE-SCHULTZ NO 2 30,625,010 16,673 299 GRAND COULEE-WESTSIDE(AVA) NO 1 2,238,122 15,221 GRANDE ROND-BOYER NO 1 300 1.337.310 4.750 301 GRANDVIEW-RED MOUNTAIN NO 1 1,700,292 8,275

Α С D E **Network Facilities** Owner Investment (\$) O&M (\$) Multi% **Transmission Lines** 302 GREEN BLUFF TAPTO BELL-TRENTWOOD NO 2 268.903 3.247 666,893 GREEN PETER-LEBANON NO 1 303 8,101 65% GRIZZLY-SUMMER LAKE NO 1 304 14,696,081 16,635 43% GROUSE CREEK-TECOMA (LEASED FACILITIES) 305 94% 1.919.106 0 2.533 306 HANFORD-WAUTOMA NO 1 3.298.689 307 HANFORD-WAUTOMA NO 2 2,933 2,850,843 308 HARRISBURG TAP TO ALBANY-EUGENE NO 1 15,159 161 HARVALUM-BIG EDDY NO 1 2,717,106 309 5,218 HAT ROCK TAP TO MCNARY-WALLULA 310 117,346 446 HATTON TAP TO CONNELL TAP 913,143 2,810 311 HATWAI-DWORSHAK NO 1 6,688,529 30,213 312 5,598 313 HAWKINS-ALVEY NO 1 205.310 HEBO TAP TO BOYER-TILLAMOOK NO 1 314 1,872 219 315 HEDGES TAP TO FRANKLIN-BADGER CANYON NO 2 197,981 316 316 HEYBURN-ADELAIDE NO 1 3,956,550 3,184 317 HIDEAWAY TAP TO HAWKINS-ALVEY NO 1 505 113 318 HILLS CREEK-LOOKOUT POINT NO 1 1,242,208 23,947 81% HILLTOP-WARNER NO 1 4,263 319 4,824,687 320 HOLCOMB TAP TO CHEHALIS-RAYMOND NO 1 343,953 236 321 HOLCOMB-NASELLE NO 1 18,236 1,912,715 322 HOOD RIVER-THE DALLES NO 1 3,502,756 3,737 323 HORN BUTTE TAP TO TOWER ROAD-ALKALINO 1 339,950 313 324 HORSE HEAVEN-HARVALUM NO 1 750,152 8,291 325 HORSE RANCH TAP TO MONROE-SNOHOMISH NO 1&2 79,180 412 HOT SPRINGS 500-230KV TIE NO 1 326 37,012 201 327 HOT SPRINGS-RATTLESNAKE NO 1 6,631,847 42,176 328 HUNGRY HORSE-COLUMBIA FALLS NO 1 4,979,851 1,157 HUNGRY HORSE-CONKELLEY NO 1 329 1,591 981,905 330 ICE HARBOR-FRANKLIN NO 2 554,825 1,202 97% 1,085 331 ICE HARBOR-FRANKLIN NO 3 1,331,565 91% 332 JACKSON TAP TO CANAL-SECOND LIFT NO. 2 54,669 789 333 JOHN DAY-BIG EDDY NO 2 5,737,346 7,983 334 JOHN DAY-MARION NO 1 17,485,758 45,354 335 JONES CANYON-SANTIAM NO 1 5,427,621 34,485 336 JUNCTION CITY TAP TO ALBANY-EUGENE NO 1 194 2,182 KALISPELL-KERR NO 1 1,388,419 337 28,137 338 KEELER-ALLSTON NO 1 5,141,827 21,639 KEELER-FOREST GROVE NO 1 339 975,253 46,624 KEELER-FOREST GROVE NO 2 340 621,323 9,276 KEELER-OREGON CITY NO 2 341 1,405,479 9,347 342 KELLER TAP TO GRAND COULEE-OKANOGAN NO 2 4,885,125 17,815 343 KENNEWICK TAPTO FRANKLIN-BADGER CANYON NO 2 38,892 604 344 KERR SUB TIE TO US ITS MP CO.115KV 77,150 720 KITSAP-BANGOR NO 1 345 637,130 5,707 KITSAP-STATION X NO 1 346 262,419 0 347 KLONDIKE SCHOOLHOUSE-JOHN DAY NO 1 9,759,776 2,121 348 LA PINE-CHILOQUIN NO 1 2,528,246 16,397 349 LA PINE-FORT ROCK NO 1 6,761,746 8,966 350 LANCASTER-NOXON NO 1 5,555,532 32,436 351 LANE-WENDSON NO 1 3,845,376 31,492 352 LANE-WENDSON NO 2 2,282,762 38,578 353 LANGLOIS TAP TO BANDON-ROGUE NO 1 26,655 356 354 LATHAM TAP TO ALVEY-MARTIN CREEK NO 1 1,045,461 1,058 355 LEXINGTON-DELAMETER NO 1 145,989 0 LEXINGTON-LONGVIEW NO 1 5,257 356 1,016,084 357 LEXINGTON-LONGVIEW NO 2 438,091 27,009 25,790,220 358 LIBBY-BONNERS FERRY NO 1 100,596 359 LIBBY-CONKELLEY NO 1 9.627.742 43.269 360 LITTLE GOOSE-LOWER GRANITE NO2 5,722 11,712,702 361 LITTLE GOOSE-LOWER GRANITE NO1 8,498,964 9,719 362 LONGVIEW-ALLSTON NO 1 333,525 6,981 6,529 363 LONGVIEW-ALLSTON NO 2 69,437 364 LONGVIEW-ALLSTON NO 3 1,078,592 4,756 365 LONGVIEW-ALLSTON NO 4 658,953 18,638 366 LONGVIEW-BAKERS CORNER (COWLITZ PUD LINE) 32,177 150 367 LONGVIEW-CHEHALIS NO 1 & 3 2,945,500 30,561 LONGVIEW-COWLITZ NO 1 552,482 368 3,505 369 LONGVIEW-WASHINGTON WAY NO 1 629,897

Α С n E **Network Facilities** Owner Investment (\$) O&M (\$) Multi% **Transmission Lines** 370 LOOKOUT POINT-ALVEY NO 1 841.529 12.253 LOOKOUT POINT-ALVEY NO 2 371 695,638 7,785 372 LOPEZ ISLAND-DECATUR NO 1 773,159 0 56,996 373 LOST RIVER-SPAR CANYON NO 1 5,518,064 374 LOWER GRANITE-HATWAI NO 1 8.301.795 20.227 375 LOWER MONUMENTAL-ASHE NO 1 11,094,886 23,627 LOWER MONUMENTAL-HANFORD NO 1 6,499,644 10,843 376 LOWER MONUMENTAL-LITTLE GOOSENO 1 377 3,302,542 13,378 LOWER MONUMENTAL-LITTLE GOOSENO 2 378 3,347,265 5,643 379 LOWER MONUMENTAL-MCNARY NO 1 9,987,407 24,356 LYNCH CREEK TAP TO CANYON-LAGRANDE NO 1,2 1,053,417 380 2,931 MACKS INN-MADISON NO 1 381 3.769.816 20,203 382 MALIN-HILLTOP NO 1 6,545,826 27,403 383 MAPLE VALLEY-DUWAMISH NO 1 73,304 1,236 384 MAPLE VALLEY-MASSACHUSETTS NO 1 23,317 116 385 MARION-ALVEY NO 1 4,456,110 17,990 50% 386 MARION-LANE NO 1 8,003,594 41,729 387 MARION-SANTIAM NO 1 619,487 1,700 388 MARTIN CREEK TAPTO ALVEY-FAIRVIEW NO 1 11,094 316 389 MARTIN CREEK-DRAIN NO 1 463,630 9,985 MAUPIN-ANTELOPE (LEASED FACILITIES) 390 894,251 0 MAUPIN-TYGH VALLEY NO 1 MCCULLOUGH TAP TO COWLITZ-LAGRANDE NO 1,2 391 2,147 562,433 392 459,238 5,090 MCNARY-BADGER CANYON NO 1 6,320 393 7,775,605 394 MCNARY-BOARDMAN NO 1 777,180 2,040 395 MCNARY-COYOTE SPRINGS NO 1 2,077,323 7,697 396 MCNARY-FRANKLIN NO 2 1,743,743 10,051 MCNARY-HORSE HEAVEN NO 1 397 3,369 13,284,119 398 MCNARY-JOHN DAY NO 2 135,879,520 5,635 399 MCNARY-JONES CANYON NO 1 8,393 1,657,299 MCNARY-ROSS NO 1 400 12,835,129 49,928 401 MCNARY-ROUNDUP NO 1 1,508,622 14,037 402 MIDWAY-BENTON NO 1 3,115,724 3,904 403 MIDWAY-BENTON NO 2 1,944,282 3,808 404 MIDWAY-GRANDVIEW NO 1 1,254,400 11,413 405 MIDWAY-MOXEE NO 1 1,385,757 11,337 MIDWAY-POTHOLES NO 1 406 765,882 18,143 407 MIDWAY-ROCKY FORD NO 1 1,620,448 7,625 408 MIDWAY-VANTAGE NO 1 9,948,980 24,426 MILTON TAP TO WALLA WALLA-PENDLETON NO 1 409 2,236,170 1,288 MINIDOKA PH-UNITY NO 1 410 2,146,839 19,488 MINIDOKA SUB TAPTO DUFN43 411 1,099,937 189 MIST TAP TO ALLSTON-DRISCOLL NO 2 412 9,302 740 MONROE-CUSTER NO 1 20,992,448 413 45,919 MONROE-CUSTER NO 2 414 8,704,892 30,502 415 MONROE-NOVELTY HILL NO.1 1,736,161 0 416 MONROE-SNOHOMISH NO 1 & 2 617,784 2,193 MOSSYROCK-CHEHALIS NO 1 417 1,070,923 6,665 MOUNTAIN AVENUE TAPTO (PACIFICORP) ASHLAND-OAKKNOLL 418 699,916 1,662 419 MOXEE-ROZA NO 1 23,832 8,028 MT SI-TANNER NO 1 420 6,243,005 1,951 MT. VERNON TAP TO LOOKOUT POINT-ALVEY NO 2 421 68,601 2,074 MURRAY-CUSTER NO 1 422 3,333,607 17,316 423 NAPAVINE-ALLSTON NO 1 8,567,669 13,475 NASELLE-TARLETT NO 1 21,971 424 2,514,187 425 NASELLE-TARLETT NO 2 3,823,152 12,465 NESPELEM TAP TO GRAND COULEE-OKANOGAN 426 579 0 427 NINE MILE TAP TO FRANKLIN-WALLA WALLA NO 1 40.788 88 NORTH BONNEVILLE-MIDWAY NO 1 8,013,158 78,251 428 429 NORTH BONNEVILLE-ROSS NO 1 2,635,550 6,737 430 NORTH BONNEVILLE-ROSS NO 2 31,530 1,843,674 NORTH BONNEVILLE-TROUTDALE NO1 12,654 431 2,888,783 NORTH BONNEVILLE-TROUTDALE NO2 432 2,881,488 5,749 433 NORTH CAMAS-OAK PARK NO 1 113,773 1,321 434 NORTH CAMAS-SIFTON NO 1 1,114 357,536 435 NORTH MOUNTAIN-SNOHOMISH NO 1 149,405 453 NOXON-HOT SPRINGS NO 1 3.019,998 34,207 436 437 NOXON-LIBBY NO 1 2,845,525 51,822

Appendix A

BP-16 Initial Proposal Segmentation Details
B Α С

D

Ε

	A Netv	vork Facilities	C	U	
	Transmission Lines	Owner	Investment (\$)	O&M (\$)	Multi%
438	OLYMPIA 500-230 TIE LINE 1		992,129	0	
439	OLYMPIA-GRAND COULEE NO 1		18,419,294	95,480	
440	OLYMPIA-SATSOP NO 2		3,893,068	4,691	
441	OLYMPIA-SHELTON NO 1		343,650	0	
442	OLYMPIA-SHELTON NO 2		1,573,722	5,618	
443	OLYMPIA-SHELTON NO 3		3,225,852	4,568	
444	OLYMPIA-SHELTON NO 4		3,113,703	6,761	
445	OLYMPIA-SHELTON NO 5		8,300,352	7,426	
446 447	OLYMPIA-SOUTH ELMA NO 1 OLYMPIA-ST CLAIR-S TACOMA NO 1		1,011,330 10,472,082	7,223 14,781	
448	OREGON CITY-CANBY PGE NO 1		400,736	2,494	
449	OREGON CITY-CHEMAWA NO 1		35,890	2,494	
450	OREGON CITY-CHEMAWA NO 2		2,867,294	13,780	
451	OSTRANDER-MCLOUGHLIN NO 1		1,415,214	2,089	
452	OSTRANDER-PEARL NO 1		2,001,443	7,972	
453	OSTRANDER-TROUTDALE NO 1		7,253,609	19,212	
454	PALISADES-CATTLE CREEK NO 1		19,506,750	23,324	
455	PALISADES-SWAN VALLEY NO 1		1,276,790	13,517	
456	PARKER TAP TO EUGENE-ALDERWOOD NO 1		9,970	94	
457	PAUL D. JOHNSON TAPTO ROSS-VANCOUVER SHIPYARD NO	D. 1	180,120	0	
458	PAUL-ALLSTON NO 2		9,278,477	37,295	
459	PAUL-NAPAVINE NO 1		1,699,815	8,414	
460	PAUL-OLYMPIA NO 1		3,514,676	8,687	
461 462	PAUL-SATSOP NO 1 PEARL-KEELER NO 1		30,139,100	15,581 7,194	
462	PEARL-MARION NO 1		2,245,471 5,744,117	69,476	
464	PEARL-SHERWOOD NO. 1 & 2		1,503,457	1,422	
465	PILOT BUTTE-LA PINE NO 1		1,474,753	14,215	
466	PINE HOLLOW TAP TO THE DALLES-TYGH VALLEY NO 1		15,441	325	
467	POMEROY TAP TO TUCANNON RIVER-NORTH LEWISTON NO	1	29,550	470	
468	PONDEROSA-PILOT BUTTE NO 1		4,369,374	9,695	
469	PORT ANGELES-SAPPHO NO 1		2,983,920	26,366	
470	POTHOLES-GRAND COULEE NO 1		1,377,363	7,130	
471	POTLATCH TAP TO SHELTON-FAIRMOUNT NO 1		6,824	230	
472	POWERLINE TAPS TO DIAMOND HILL-COBURG		81,433	0	
473	PRIEST RIVER TAP TO ALBENI FALLS-SAND CREEK NO 1		297,117	2,261	
474 475	PROSSER TAP TO GRANDVIEW-RED MOUNTAIN NO 1		720,575 65,675	10,079 639	
476	RADAR TAP (USBR) TO SCOOTENEY TAP RAINBOW VALLEY TAP TO LANE-WENDSON NO 1		152,368	2,476	
477	RALSTON TAP TO EAST COLFAX-LIND		532,216	1,736	
478	RATTLESNAKE-GARRISON NO 1		2,391,146	32,240	
479	RAVER TAP TO SCHULTZ-ECHO LAKE NO 1		922,569	1,018	
480	RAVER-COVINGTON NO 1		2,290,045	9,483	
481	RAVER-COVINGTON NO 2		1,295,592	5,969	
482	RAVER-ECHO LAKE NO 1		2,190,125	5,666	
483	RAVER-PAUL NO 1		12,744,114	37,193	
484	RAYMOND-COSMOPOLIS NO 1		10,746,393	14,862	
485	RAYMOND-HENKLE ST. NO 1		85,625	977	
486	RAYMOND-WILLAPA RIVER NO 1		387,668	5,978	
487	RED MOUNTAIN-RICHLAND NO 1		386,542	3,456	
488 489	RED MOUNTAIN-WHITE BLUFFS NO 1 REDMOND SUBSTATION 230/115KV TIE NO 1		1,222,907 315,227	3,030 19	
490	REDMOND-BRASADA NO 1		169,035	4,698	
491	REDMOND-PILOT BUTTE NO 1		286,641	5,757	
492	REEDSPORT-FAIRVIEW NO 1		5,395,311	25,494	
493	RESTON-FAIRVIEW NO 2		1,801,177	15,245	
494	RIVERGATE-KEELER NO 1		512,780	2,194	
495	RIVERLAND-MIDWAY NO 1		21,591	1,432	
496	ROCK CREEK-JOHN DAY NO 1		6,249,974	5,305	
497	ROCKY FORD-GRAND COULEE NO 1		1,627,129	5,026	
498	ROCKY REACH-COLUMBIA NO 1		1,231,827	4,748	
499	ROCKY REACH-MAPLE VALLEY NO 1		15,011,139	103,319	
500 501	ROE'S CORNER TAP TO HEYBURN-ADELAIDE NO 1 ROGUE-GOLD BEACH NO 1		1,116,651 3 485 431	1,171 2,653	
501 502	ROGUE-GOLD BEACH NO 1 ROGUE-GOLD BEACH NO 2		3,485,431 4,805,288	2,653 10,116	
502	ROSS-ALCOA NO 2 & 4 (ROSS-ALCOA NO 2 SECTION)		4,605,266 136,560	567	
504	ROSS-ALCOA NO 3		1,252,366	1,076	
505	ROSS-CARBORUNDUM NO 1		104,720	1,237	
			•	•	

Α С n E **Network Facilities** Owner Investment (\$) O&M (\$) Multi% **Transmission Lines** 506 **ROSS-LEXINGTON NO 1** 2,619,691 12,378 507 ROSS-RIVERGATE NO 1 558,459 20,428 508 ROSS-ST JOHNS NO 1 1,623,577 12,464 509 ROSS-VANCOUVER SHIPYARD NO 1 1,680 377.155 510 ROUNDUP-LAGRANDE NO 1 2.419.806 23.052 SACAJAWEA TAP TO ICE HARBOR-FRANKLIN NO 2 511 217,457 670 SACAJAWEA TAP TO LOWER MONUMENTAL-MCNARY NO 1 983 512 2,108,920 SACAJAWEA-SUN HARBOR NO 1 786 513 31.818 514 SACHEEN-ALBENI FALLS NO 1 1,130,388 7,055 515 SALEM-ALBANY NO 1 1,375,612 14,252 SALEM-ALBANY NO 2 1,285,514 16.410 516 9,474 517 SALEM-GRAND RONDE NO 1 5,126,215 518 SAMMAMISH-MAPLE VALLEY NO 1 1,801,866 0 SAND CREEK-BONNERS FERRY NO. 1 & 2 519 13,295,602 10,890 SANTIAM SUBSTATION TRANSF BAYTAPTO SANTIAM-ALBANY NO 1 520 2,323,017 42 521 SANTIAM-ALBANY NO 1 984,717 7,326 522 SANTIAM-ALVEY 1 & 2 6,302,735 32,415 SANTIAM-BETHEL NO 1 1,721 523 12,617,338 524 SANTIAM-CHEMAWA NO 1 1,744,710 6,637 525 SANTIAM-TOLEDO NO 1 43,796 8,340,579 SATSOP PARK-COSMOPOLIS NO 1 10,524 526 1,124,071 SATSOP-ABERDEEN NO 2 527 5,398,614 11,373 528 SATSOP-ABERDEEN NO 3 2,402,175 6,029 SATSOP-SHELTON NO 1 2,740 529 12,019,495 530 SCHRAG TAPTO RUFF-WARDEN 701,079 2,534 32,444 531 SCHULTZ-ECHO LAKE NO 1 65,603,696 532 SCHULTZ-RAVER NO 1 27,130,703 16,267 SCHULTZ-RAVER NO 3 533 17,208 10,273,142 534 SCHULTZ-RAVER NO 4 12,045,265 11,124 95,466,530 535 SCHULTZ-WAUTOMA NO 1 48,499 SCOOTENEY TAP TO MIDWAY-BENTON NO 1 536 337,805 5,655 537 SHELTON-FAIRMOUNT NO 1 4,529,817 23,334 538 SHELTON-FAIRMOUNT NO 2 3,167,897 14,653 539 SHELTON-FAIRMOUNT NO 3 3,179,420 10,326 540 SHELTON-FAIRMOUNT NO 4 2,926,202 10,349 541 SHELTON-KITSAP NO 2 9,376,899 5,286 SHELTON-KITSAP NO 3 542 4,135,933 6,621 543 SHELTON-KITSAP NO 4 4,003,145 6,771 SHELTON-SOUTH BREMERTON NO 1 544 9,302,539 2,796 11,110 545 SICKLER-SCHULTZ NO 1 11,725,105 546 SIFTON TAP TO N. BONN-ROSS 2 222,180 93 547 SIFTON TAP TO NORTH BONNEVILLE-ROSS NO 1 767 222,180 SIFTON-FISHERS ROAD NO 1 548 55,704 785 SIFTON-LACAMAS NO 1 549 354 1,034 550 SIFTON-ROSS NO 1 344,041 938 551 SILVERADO TAP TO PORT ANGELES-SAPPHO NO 1 458,627 15 SLATT-BUCKLEY NO 1 552 21,181,550 26,889 SLATT-JOHN DAY NO 1 553 4,830,181 16,607 93% SNOHOMISH-BEVERLY PARK NO 3 554 328,629 768 555 SNOHOMISH-BEVERLY PARK NO 4 379,809 419 SNOHOMISH-BOTHELL NO 1 556 451,614 3,353 SNOHOMISH-BOTHELL NO 2 148,752 557 687 558 SNOHOMISH-EV ERETT 843 417,659 SNOHOMISH-MURRAY NO 1 559 429,756 7,846 SNOHOMISH-PUD NO 9 560 2,362,466 854 561 SNOHOMISH-PUD NO. 8 2,377,231 758 562 SNO-KING TAPTO ECHO LAKE-MONROE NO 1 4,503,601 2,874 SNO-KING-MAPLE VALLEY NO 1 SNO-KING-MAPLE VALLEY NO. 2 563 1.845.243 778 564 651,009 306 565 SOUTH ELMA-SATSOP PARK NO 1 209,546 2,050 SOUTH FORK TAP TO FOREST GROVE-TILLAMOOK NO 1 566 9.989 0 SOUTH TACOMA-SOUTHWEST NO 1 5,009 567 1,159,429 SOUTH TACOMA-WHITE RIVER NO 1 568 339,175 5,642 569 SPAR CANYON - ROUND VALLEY 1,264,435 6,747 570 SPEARFISH TAP TO CHENOWETH-GOLDENDALE NO 1 2,225 113,617 SPIRIT TAP TO COLVILLE-BOUNDARY NO 1 416,256 3,621 571 SPRING CREEK-WINE COUNTRY NO 1 572 3.787.668 16.375 573 ST HELENS-ALLSTON NO 1 5,186,672 10,999

	A	В	С	D	E
	Network Fa				
	Transmission Lines	Owner	Investment (\$)	O&M (\$)	Multi %
574	ST JOHNS TAPTO KEELER-OREGONCITY NO 2		317,198	157	
575	ST JOHNS-KEELER NO 2		421,249	10,500	
576	ST JOHNS-ST HELENS NO 1		1,648,790	12,677	
577	SWAN VALLEY-GOSHEN NO 1		4,291,759	15,899	
578	SWAN VALLEY-TETON NO 1		2,751,164	15,773	
579	SWAN VALLEY-TETON NO 2		12,256,729	11,109	
580	SWIFT TAP TO ROSS-LEXINGTON NO 1		14,620	103	
581	TACOMA-COVINGTON NO 2		1,907,335	3,976	
582	TACOMA-COVINGTON NO 3		1,240,294	6,702	
583	TACOMA-COVINGTON NO 4		1,240,294	6,348	
584	TACOMA-RAVER NO 1&2		6,899,623	14,572	
585	TAFT-BELL NO 1		84,342,970	85,769	
586	TAFT-HOT SPRINGS NO 1		11,863,226	60,597	
587	TAHKENITCH-GARDINER NO 1		181,891	2,834	
588	TAHKENITCH-REEDSPORT NO 1		462,340	8,267	
589	TARGHEE TAP TO SWAN VALLEY-TETON NO 1		949,781	9,817	
590	TARGHEE-DRUMMOND NO 1		87,417	32,837	
591	THATCHER JUNCTION TAP TO FOREST GROVE-TILLAMOOK NO 1		1,689	0	
592	THE DALLES-DISCOVERY NO 1		221,839	9,624	
593	THURSTON-MCKENZIE NO 1		2,435,522	3,136	
594	TILLAMOOK-TRASK RIVER NO 1		358,808	850	
595	TIMBER TAP TO FOREST GROVE-TILLAMOOK NO 1		603,286	11,789	
596	TOLEDO-WENDSON NO 1		5,931,612	40,842	
597	TOWER ROAD-ALKALINO 1		430,310	2,043	
598	TRENTWOOD-VALLEY WAY NO 1		249,698	3,172	
599	TROJAN-ALLSTON NO 1		1,595,833	1,444	
600	TROJAN-ALLSTON NO 2		1,584,040	445	
601	TUCANNON RIVER-NORTH LEWISTON NO 1		11,818,725	15,343	
602	UNDERWOOD TAP NO 1		1,308,813	14,321	
603	UNITY-HEYBURN NO 1		549,469	5,546	
604	UNITY-WEST BURLEY NO 1		1,931,734	10,545	
605	USK-BOUNDARY NO 1		2,080,111	9,032	
606	VANTAGE-COLUMBIA NO 1		1,207,066	9,380	
607	VANTAGE-HANFORD NO 1		408,065	0	
608	VANTAGE-SCHULTZ NO 1		5,237,336	9,127	
609	VERA TAP TO TRENTWOOD-VALLEY WAY NO 1		225,518	2,435	
610	VICTOR TAP TO TARGHEE TAP		96,996	91	
611	WAGNER LAKE TAP TO WILBUR TAP		441,963	7,285	
612	WALLA WALLA-FREEWATER		1,331,932	1,449	
613	WALLA WALLA-PENDLETON NO 1		4,185,671	11,562	
614	WALLA WALLA-TUCANNON RIVER NO 1		19,810,996	15,345	
615	WALNUT CITY TAP TO FOREST-GROVE-MCMINNVILLE NO 1		210,249	3,319	
616	WAUTOMA-OSTRANDER NO 1		35,241,949	64,063	
617	WAUTOMA-ROCK CREEK NO 1		9,564,886	28,597	
618	WENDSON-TAHKENITCH NO 1		3,649,156	13,363	
619	WENDSON-TAHKENITCH NO 2		2,343,750	7,365	
620	WEST BURLEY-HEYBURN NO. 1 (LEASED FACILITY)		21,218	3,474	
621	WESTSIDE (AVA)-BELL NO 1		207,587	802	
622	WHITE BLUFFS-451B NO 1		1,025,555	817	
623	WHITE BLUFFS-RICHLAND NO 1		1,698,054	5,059	
624	WILLOW CREEK-HAWKINS #1		477,053	1,006	
625	WINE COUNTRY-MIDWAY NO 1		2,763,766	2,695	
626	WINTHROP TAP TO TWISP-OKANOGAN		702,769	8,175	
627	WNP1-ASHE NO 2		76,075	1,039	
628	Subtotal Lines		2,491,881,183	6,035,124	
020	Oubtotal EIII63		2,731,001,103	0,000,124	

С Α D Ε **Network Facilities** Owner Investment (\$) O&M (\$) Multi% Stations 629 ABERDEEN SUBSTATION 5,977,208 103,613 ACORD SUBSTATION (BENTON REA) 630 22,142 ADAIR SUBSTATION(BPA) 21,692 631 771,251 70% ADDY SUBSTATION 7,221,024 55,953 632 633 AFTON COGENERATION POWER PLANT 8.654 0 CPC AHSAHKA SUBSTATION 952 634 22,139 635 AIRWAY HEIGHTS SUBSTATION 27,894 AVA 312 11,467,254 104.068 88% 636 ALBANY SUBSTATION 637 ALBENI FALLS SUBSTATION 1,096,932 18,449 75% 638 ALCOA SUBSTATION 7,740,270 132,586 88% 639 ALDER METERING POINT **TPWR** 27,765 281 37,955 640 ALFALFA SUBSTATION 1,787,280 641 **ALKALISUBSTATION CBEC** 61,692 322 642 ALLSTON SUBSTATION 50,654,001 559,265 643 ALTURAS SUBSTATION PAC 21,364 340 644 ALVEY SUBSTATION 23,034,748 228,758 74% 645 AMES LAKE SUBSTATION TEC 30,075 1,055 646 ANACONDA SUBSTATION 3,438,684 85,922 647 ANGUS SUBSTATION (BENTON CO PUD) 15,475 329 APPLEWAY SUBSTATION AVA 437 648 18,816 ARCO SUBSTATION (BPA/LREC) 649 32,413 646 **CWPUD** 650 ARIEL SUBSTATION 35,332 457 651 ARM RELIFT SUBSTATION AVA 8,900 0 ARMSTRONG SUBSTATION(INLAND POWER & LIGHT) 564 652 8,286 653 ARTONDALE SUBSTATION **PLC** 88,106 1,672 654 ASHE SUBSTATION 31,209,146 368,015 88% 655 ASHLAND SUBSTATION PAC 85,217 ATHOL SUBSTATION(KOOTENAI ELEC COOP) 656 KEC/NLI 1,339 19.663 657 AUSTIN SWITCHYARD SVEC 13,635 1,101 658 BADGER CANYON SUBSTATION 2,026,502 29.500 659 BALD MOUNTAIN SUBSTATION 4,043,063 28,608 660 BANDON SUBSTATION 4,085,324 57,378 84% 661 BANGOR SUBSTATION USN 67,321 1,207 662 BANNACK SUBSTATION **VEC** 109,110 1,183 663 BARRETTS SUBSTATION(VIGILANTEELECTRIC) **VEC** 28,520 0 15,519 664 BAXTER SUBSTATION (BIG BEND) **BBEC** 730 665 BEACON SUBSTATION AVA 1,931 0 666 BEAVER BAY SUBSTATION (COWLITZ PUD) 24,843 123 667 BEAVER SUBSTATION (PGE) 46,143 2,707 BEAVER SUBSTATION(TILLAMOOK PUD) 668 61,093 4,656 BELL SUBSTATION 73,650,098 669 972,008 BELLINGHAM SUBSTATION(BPA) 670 11,711,269 34,676 BELLINGHAM SUBSTATION(PUGET SOUND ENERGY) 671 2,432 788 BENTON CITY SUBSTATION (BENTONCO PUD) 672 15,267 337 BENTON SUBSTATION 7,772,465 81,409 673 BERRIAN SUBSTATION **BPUD** 464 674 25,904 675 BERRYDALE SUBSTATION (CLP) 36,801 182 BERTELSEN SUBSTATION 676 **EWEB** 59,277 192 BETHEL SUBSTATION 677 **PGE** 12,410 280 678 BETTAS ROAD SUBSTATION 5,183,108 13,364 BEVERLY PARK SUBSTATION 679 SNPUD 86,702 1,364 BIG EDDY SUBSTATION 14% 680 10,857,639 89,248 681 BIG FORK SUBSTATION (FEC) 0 6,087 BIG HORN SUBSTATION (IBERDOLA) 682 19,558 4,210 FPLID 683 **BIG PASCO** 13,215 368 684 **BIGLOW CANYON SUBSTATION PGE** 61,573 3,201 685 BINGEN SUBSTATION(KLICKITAT CO PUD) 674 32.117 686 BLACKROCK SUBSTATION **BRFA** 10.803 2.377 687 BLAINE SUBSTATION 660 PSE 128.593 688 BLAKESLEE JUNCTION SWITCHING STATION 1,082,385 0 689 **FPUD** 135 BLANTON ROAD SUBSTATION 22,796 690 BOARDMAN SUBSTATION 52,084 7,009,486 691 BONNER SUBSTATION MEC 45,980 782 692 BONNERS FERRY SUBSTATION 1,689,233 32,486 73% 693 BOOTH BEND SUBSTATION 11,060 MWI 617 694 **BOUNDARY SUBSTATION** 89,487 3,969,456 695 BOX CANYON POWERHOUSE **POPD** 56.157 586 696 BOYER SWITCHING STATION PAC 21,947 4,521

С Ε Α D **Network Facilities** Owner Investment (\$) O&M (\$) Multi% Stations 697 BRASADA SUBSTATION (CENTRAL ELECTRIC COOPERATIVE) 492,476 15,710 BREMERTON SUBSTATION (PSE) 698 57,828 199 BREWSTER SUBSTATION **OPUD** 699 36,031 313 BRIDGE SUBSTATION 700 4,925,792 54,436 701 BRIDGEPORT BAR **DPUD** 16.007 1.723 BRINCKEN'S CORNER SUBSTATION 922,405 14,429 702 703 **BROADMOOR SUBSTATION** FPUD/BBEC 57,308 222 704 BROADVIEW SUBSTATION NWF 123,479 128 BROOKDALE SUBSTATION(ELMHURSTMUTUAL PWR & LIGHT) 82,392 1,127 705 706 BROOKDALE SUBSTATION(TACOMA PUBLIC UTILITIES) 43,391 n 707 **BUCKLEY SUBSTATION** 3,489,220 34,755 36% BURBANK #2 METERING POINT **GPUD** 708 10,340 0 709 BURBANK #3 METERING POINT **GPUD** 9,282 0 710 BURLEY SUBSTATION(CITY OF BURLEY) 8,862 328 CABINET GORGE SUBSTATION 1,002 711 AVA 51,098 712 CALPINE SUBSTATION CPN 25,548 12,827 713 CANAL SUBSTATION 1,774,559 22,965 14,662 CANBY SUBSTATION(BPA) 714 1,636,563 CANBY SUBSTATION(PGE) 563 715 28,591 CANBY SUBSTATION(SURPRISE VALLEY ELEC) 3,083 716 84.531 CAPE HORN SUBSTATION **SKPUD** 717 28,175 2,184 CARDWELL SUBSTATION 51,693 2,286,790 718 719 CARLIN SUBSTATION **WREC** 7,918 98 CARLSON SUBSTATION 720 VEC 29,249 0 721 CARLTON SUBSTATION 6,294,326 75,862 CARMEN POWERHOUSE 722 **EWEB** 31,287 304 723 CARSON SUBSTATION **SKPUD** 2,593 1,201 CASCADE STEEL SUBSTATION MWL 87,356 1,539 724 725 CATHLAMET SUBSTATION WPUD 101,018 2,381 726 CEDARVILLE CITY SUBSTATION SVEC 22,896 0 CEDARVILLE JUNCTION SUBSTATION 40,631 727 731,274 728 CENTRAL FERRY SUBSTATION 1,352,132 31,366 729 CENTRALIA MINES SUBSTATION **TACG** 5,778 730 CENTRALIA SUBSTATION 1,680,624 24,390 731 CENTRALIA SWITCHING STATION **TACG** 176,972 380 CENTRALIA THERMAL POWERHOUSE 732 PAC 15,230 285 CHALLIS SUBSTATION **SREC** 733 65,343 0 CHEHALIS SUBSTATION 734 15,921,614 274,082 CPU 735 CHELATCHIE SUBSTATION 17,442 230 CHEMAWA SUBSTATION 736 16,749,391 373,547 CHEMICAL SUBSTATION **CWPUD** 737 127,756 n CHENEY SUBSTATION 738 IPL/CHNY 338,981 1,450 739 CHENOWETH SUBSTATION 7,290,514 51,983 CHERRY CREEK SUBSTATION 740 NWE 8,426 1,604 741 CHESHIRE SUBSTATION (EPUD) **EPUD** 597 104,113 742 CHEVRON SUBSTATION **BPUD** 921 20,231 743 CHEWELAH SUBSTATION AVA 26,994 547 CHIEF JOSEPH SUBSTATION 23,535,065 498,609 744 72% **MSEC** CHRISTMAS VALLEY SUBSTATION 36,342 1,762 745 CITY VIEW SUBSTATION 746 **RICH** 29,453 736 CLARK SUB 747 CPU 21,851 0 CLARKSTON SUBSTATION 532,252 18,625 748 CLATSKANIE SWITCHING STATION (CLATSKANIE PUD) **CTPUD** 1,394 749 12,340 CLATSOP SUBSTATION 102,996 750 2,415,469 **CLAYTON SUBSTATION** 751 IPL 28,441 1,303 752 CLINTON SUBSTATION (MISSOULA) MEC 5,411 970 COASTAL ENERGY GENERATING PLANT 753 COAST 10,371 2,049 754 COEUR D'ALENE 15TH STREET SUBSTATION AVA 37.103 335 COFFIN BUTTE GENERATING PLANT 755 **PNGC** 10,273 1,488 756 COLD CREEK SUBSTATION **BPUD** 41,821 1,583 757 COLLINS LAKE SUBSTATION M3PUD 15,858 0 COLLINS SUBSTATION 467 758 **KPUD** 18,228 759 COLUMBIA CREST SUBSTATION **BRFA** 15,608 330 760 COLUMBIA FALLS SUBSTATION -- 115 YARD 3,436,193 106,266 COLUMBIA FALLS SUBSTATION - 230 KV YARD 12,038,998 761 29,597 COLUMBIA SUBSTATION 25,509,947 318,318 762 COLVILLE SUBSTATION 4,151,056 69.469 763 COMBINE HILLS II SUBSTATION (EURUS EGY) 764 **EURUS** 47,138 2,095

С Ε Α D **Network Facilities** Owner Investment (\$) O&M (\$) Multi% Stations 765 CONDON SUBSTATION **CBEC** 41.086 782 CONDON WIND SUBSTATION(SEAWEST) **SEAWEST** 766 72,793 8.826 CONKELLEY SUBSTATION 767 5,164,221 93,812 45% CONNELL SUBSTATION BPA/FPUD 5,495 768 746,801 CORVALLIS SUBSTATION 769 **RCEC** 14.452 521 50,661 COSMOPOLIS SUBSTATION 770 1,392,400 COTTONWOOD METERING POINT(BPA) 771 AVA 54,681 327 COVINGTON SUBSTATION 36,751,175 1,135,295 772 COW CREEK SUBSTATION (UIUC) 773 UIUC 14,830 838 COWLITZ FALLS POWERHOUSE 72,665 1,102 774 I PUD COWLITZ SUBSTATION(TACOMA PUBLIC UTILITIES) **TPWR** 368.188 775 1,044 COWLITZ SUBSTATIONBPA) 776 2,703,529 33,505 COYOTE SPRINGS SUBSTATION 777 **PGE** 4,532,741 27,678 CRAIGMONT SUBSTATION 778 AVA 56,390 881 CRESTON SUBSTATION(BPA) BPA/IPL 30,400 779 1,579,537 780 CRESWELL SUBSTATION **EPUD** 31,204 785 781 **CURLEW SUBSTATION RREC** 10,717 271 CUSICK SUBSTATION 782 1,806,564 21,718 CUSTER SUBSTATION 695,920 783 36,147,566 DARBY SUBSTATION **RCEC** 990 784 23,882 DAY MT. SPOKANE 785 IPL 17,108 0 DAYTON SUBSTATION(BPA & COLUMBIA REA) **CREA** 5,558 786 66,697 787 DAYTON SUBSTATION (MASON COUNTY) M3PUD 42,516 568 49,568 DE MOSS SUBSTATION(BPA) 1,613,994 788 789 DECLO METERING POINT SSE 43,494 752 790 DEER PARK SUBSTATION BPA/IPL/AVA 461,637 11,537 791 DELENA SUBSTATION **CTPUD** 60,981 2,263 **DELIGHT SUBSTATION BBEC** 792 34,597 448 793 DELL SUBSTATION VEC 30,156 1,009 794 DEXTER SUBSTATION (LANE ELECTRIC) LEC 604 24,525 795 DILLARD SUBSTATION **EWEB** 17,335 367 796 DILLON SUBSTATION VEC 28,985 638 797 DILLON-SALMON SUBSTATION NWE 110,343 841 798 DISCOVERY BAY SUBSTATION **JPUD** 54,874 187 DISCOVERY SUBSTATION (N. WASCO PUD) 799 **NWPUD** 124,219 5,126 DIVIDE SUBSTATION 800 VEC 22.748 306 801 DIXON SUBSTATION 3,481,862 25,568 802 DOE 251W SUBSTATION DOE 12,982 215 803 DOE 451A SUBSTATION DOE 11,839 142 804 DOE 451B SUBSTATION DOE 21,042 5,674 DONALD NYS SUBSTATION 9,822 805 **CRPUD** n DOOLEY SUBSTATION (WINDY POINT) WPP 3,982 806 164,759 807 DORENA SUBSTATION 195,315 13,648 DOVER SWITCHING STATION 808 NI I 18,324 207 809 DOWER SUBSTATION **KEC** 30,249 191 810 DRAIN SUBSTATION 35,132 91% 2,664,627 IPC 811 DREWSEY METERING POINT (IPCO) 6,039 509 DRISCOLL SUBSTATION 812 6,534,477 73,653 YPWR 813 DROP PLANT PUMPING PLANT 8,779 0 814 DRUMMOND MONTANA SUBSTATION NWE 4,352 0 DRUMMOND SUBSTATION **BPA/FREC** 815 10,885,405 135,178 DUCKABUSH SUBSTATION M1PUD 816 37,560 3,185 **CRPUD** DUTCH CANYON SUBSTATION 0 817 15,947 DWORSHAK SUBSTATION 818 20,299,284 105,419 82% EAGLE POINT METERING POINT MWL 176 819 23,907 820 EAST BENCH SUBSTATION VEC 29,447 568 821 EAST COLFAX SUBSTATION AVA 6,054 486 822 EAST FOSSIL SUBSTATION **CBEC** 50.617 345 823 EAST GREENACRES #1 METERING POINT **KEC** 9.045 0 824 EAST GREENACRES #2 METERING POINT AVA 7,420 0 825 EAST GREENACRES #3 METERING POINT 0 AVA 8.778 826 EAST HILLS SUBSTATION BPA/SSE 537,847 8,626 827 EAST OMAK SUBSTATION 3.999.264 87,229 828 EAST PINE SUBSTATION SCL 19,963 0 829 4,388 0 EAST SUBSTATION **TPUD** 830 ECHO LAKE SUBSTATION 32,413,034 104,350 EGYPT SUBSTATION IPI 831 29.691 162 832 EIGHT MILE CREEK METERING POINT WRFC 229,192 0

С Ε Α D **Network Facilities** Owner Investment (\$) O&M (\$) Multi% Stations 833 **ELBE SUBSTATION LPUD** 27.620 1.674 84,173 ELLENSBURG SUBSTATION 834 BPA/ELN 1,239,887 ELM STREET SUBSTATION 835 OTEC 14,496 1,217 **BPA/GHPUD** 18,081 836 **ELMA SUBSTATION** 686,902 837 **ELMAR SUBSTATION** MEC 33.016 776 ELMO SUBSTATION(MVP) MVP 48,586 838 374 839 ELTOPIA BRANCH CANAL POWERHOUSE **SCBID** 14,336 113 840 ELTOPIA SUBSTATION (BIG BEND) **BBEC** 24,590 244 841 **BPUD** 35,905 **ELY SUBSTATION** 324 842 EMERGENCY OPERATING FACILITY **FNW** 44,194 3,256 843 **ENDERSBY SUBSTATION WEC** 9,311 1,383 ENERGIZER SUBSTATION (KPUD) 844 **KPUD** 147,359 6,237 ENTERPRISE SUBSTATION 845 WHPUD 21,193 180 EUGENE SUBSTATION 846 6,092,578 59,747 847 EUREKA SUBSTATION (LINCOLN ELEC) LINC 1,740 37,497 EVERGREEN PUMP STATION 848 **QCBID** 24,923 939 849 **EWAN SUBSTATION** AVA 8,238 20 25,055 850 FAIRCHILD AIR FORCE BASE NORTH SUBSTATION **USAF** 646 851 FAIRCHILD AIR FORCE BASE SOUTH SUBSTATION USAF 1,090 34,734 FAIRFIELD SUBSTATION 852 **IPC** 22,634 0 853 FAIRMOUNT SUBSTATION 128,865 15,151,510 FAIRVIEW SUBSTATION(BPA) 854 209,904 11,888,796 855 FEEDVILLE SUBSTATION (UÉC) **UEC** 6,548 484 PAC 856 FERN HILL SUBSTATION 13,666 450 857 FERN RIDGE SUBSTATION (LANE ELECTRIC) LEC 16,530 736 858 FERNDALE SUBSTATION WHPUD 404 17,315 859 FIDALGO SUBSTATION 4,642,101 52,838 FILBERT SUBSTATION(CITY OF FOREST GROVE) **FORG** 860 15,622 171 861 FINLEY SUBSTATION (BENTON COUNTY PUD) **BPUD** 11,011 1,384 862 FIRST LIFT SUBSTATION 28,131 0 FIRST STREET SUBSTATION **RICH** 863 69,550 1,146 864 FISHERS ROAD SUBSTATION CPU 6,861 n FLATHEAD SUBSTATION(BPA & FLATHEAD ELEC) **BPA/FEC** 865 5,621,981 41,709 FLORENCE SUBSTATION (CENTRAL LINCLON PÚD) 17,351 866 **CLPUD** 426 FORDS PRAIRIE SUBSTATION(CITYOF CENTRALIA) 867 CCL 38,555 243 FORDS PRAIRIE SUBSTATION(LEWIS CO PUD) 868 **LPUD** 25.993 887 FOREST GROVE SUBSTATION BPA/FORG 45,693 869 5,137,437 870 FORT ROAD METERING POINT YPWR 23,768 237 FORT ROCK SUBSTATION (MIDSTATE ELECTRIC COOP) 871 MEC 2,580 0 FOSSIL SUBSTATION 1,215,681 872 45,903 FOSTER CREEK SUBSTATION(NESPELEM VALLEY ELEC) **NVEC** 873 56,093 3,310 FOSTER CREEK SUBSTATIONDOUGLAS CO PUD) DOPD 874 33,214 0 FOSTER WELLS SUBSTATION **FPUD** 875 87,713 609 FOUR LAKES SUBSTATION IPL/CHNY 876 67,720 3,382 FOURTH AND HERALD SUBSTATION 18,003 877 AVA 0 878 FRANKLIN SUBSTATION BPA/FPUD 7,519,624 251,347 80% 879 FRANZ HOLMES SUBSTATION ELM 152,954 670 FREEWATER SUBSTATION(BPA) **BPA/CMF** 880 1,737,784 12,022 881 **USBR** FRENCHMAN HILLS SUBSTATION 14,788 422 FRENCHMAN SPRINGS SUBSTATION 882 **USBR** 19,285 672 FRENCHTOWN SUBSTATION (MISSOULA) MEC 883 24,770 574 884 FROMAN SUBSTATION 10,025 CPI 428 885 GARIBALDI SUBSTATION(TILLAMOOK PUD) **TPUD** 350,237 2,188 886 GARRISON SUBSTATION 335,935 47,828,951 66% GATES OF THE MOUNTAINS METERING POINT 887 NWF 7,949 703 888 GEISEL MONUMENT SUBSTATION **CCEC** 37,685 187 10,421 889 GEM STATE HYDRO PLANT **IFP** 53 890 GEORGIA PACIFIC SUBSTATION(PSE) **PSE** 69.838 64 GIG HARBOR SUBSTATION **TPWR** 891 985 59.167 892 GILMER SUBSTATION(KLICKITAT CO PUD) **KPUD** 22,504 302 893 **GLASGOW SUBSTATION** CL PUD 30,939 453 894 GLENOMA SUBSTATION 379 **LPUD** 52,158 GLENWOOD SUBSTATION 895 **KPI ID** 40,100 480 896 **GOBLE SUBSTATION** CRPUD 29,349 501 897 **SNOPUD** 20,053 485 GOLD BAR SUBSTATION 898 GOLD BEACH SUBSTATION 129,528 5,463 899 GOLDENDALE SUBSTATION(BPA) 1,220,930 23.962 **NVEC** GOOSE LAKE SUBSTATION(NES PELEM VALLEY ELEC) 900 6,433 1,252

С Ε Α D **Network Facilities** Owner Investment (\$) O&M (\$) Multi% Stations 901 GORMLEY SUBSTATION (MCMINNVILLE W & L) MWL 47.378 0 GOSHEN SUBSTATION(PACIFICORP) 900 PAC 2,375,647 0 GOSHEN SUBSTATION(UTAH POWÉR & LIGHT) 901 PAC 5,350,514 112,028 **GPUD** 902 GRAND COULEE #2 METERING POINT 10.705 1.295 GRAND COULEE SUBSTATION 903 **GPUD** 385.862 1,854 GRAND RONDE SUBSTATION 904 PGE 31,005 419 905 GRANDVIEW SUBSTATION BPA/BREA 3,490,379 57,734 GRANGEVILLE SUBSTATION 1,434 906 AVA0 907 GRANTSDALE SUBSTATION **RCEC** 5,648 551 908 GRAYSHARBOR FACILITY NO 1 (GRAYSHARBOR ENE 11,252 3,663 GHF 909 GRAYS RIVER SUBSTATION **WPUD** 61,344 2,644 910 GREEN VALLEY SUBSTATION 2,774,705 15,810 911 GREENTIMBER SUBSTATION **FREC** 37,716 222 912 GROUSE CREEK METERING POINT **RREC** 13,002 376 **GUM STREET SUBSTATION BPUD** 20,554 319 913 914 H2F SUBSTATION **BPUD** 23,867 483 915 HAAKENSON SUBSTATION ELM 106,056 884 HAGEN SUBSTATION 329 916 PPUD 48,927 HALF MOON SUBSTATION(INLAND POWER & LIGHT) **IPL** 20,346 118 917 HAMPTON SUBSTATION CEC 73,268 3,970 918 HANFORD SUBSTATION 919 24,766,759 181,547 HANNA SUBSTATION(DOUGLAS CO PUD) GNC 5,942 920 0 921 HAPPY VALLEY SUBSTATION 3,835,998 29,999 HARNEY SUBSTATION(BPA) 922 7,682,298 72,212 923 HARVALUM SUBSTATION 3,172,717 53,137 3,819 924 HARVEST WIND SUBSTATION (KPUD) **KPUD** 121,495 925 HARVEY SUBSTATION **NWA** 292,372 673 HASKILL SUBSTATION 6,694 926 FFC. 35,947 927 HASKINS METERING POINT WOEC 7,710 608 928 HAT ROCK SUBSTATION 5,040,308 25,146 **BBEC** 929 HATTON SUBSTATION (BIG BEND) 21,007 524 930 HATWAI SUBSTATION 10,839,430 184 475 931 HAUSER SUBSTATION(BPA) 185,541 9,092 HAUSER SUBSTATION(CENTRAL LINCOLN PUD) 932 **CLPUD** 27,964 23 933 HAWK ROAD METERING POINT YPWR 17,340 423 934 HAWKINS SUBSTATION **EWEB** 10.130 159 HAY CANYON SUBSTATION (IBERDOLA) 935 **IBER** 37,988 2,470 936 HAY MILL SUBSTATION (UNITED ELEC & CITY OF RUPERT) **UEC/RUPT** 228,286 15,165 937 HAYDEN SUBSTATION KEC 35,420 81 938 HAYFORD SUBSTATION(INLAND POWER & LIGHT) 14,000 216 **IPL** HEBO SUBSTATION **BPA/TPUD** 939 389,712 16,039 HEDGES SUBSTATION(BENTON CO PUD) 940 **BPUD** 14,917 286 HEGLAR SUBSTATION **RREC** 941 34,766 1,724 HEIMARK METERING POINT 942 **APUD** 37,535 278 943 HEPPNER GENERATING STATION **MORR** 27,447 0 944 HERMISTON BUTTE (UEC) UEC 20,111 809 945 HEYBURN SUBSTATION 9,390,009 61,600 HIDEAWAY SUBSTATION (LANE ELECTRIC) 946 LEC 10,025 350 947 HIGHLANDS SUBSTATION (BENTON CO PÚD) **BPUD** 13,750 721 948 HILLTOP SUBSTATION **BPA/NEV** 1,907,532 26,902 949 HILTON LAKE SUBSTATION **SNOPUD** 28,003 400 950 HINES SUBSTATION OTEC 1,035 32,533 HOLCOMB SUBSTATION 951 653,608 28,272 HOOD RIVER SUBSTATION 17,390 952 607,958 49% HOODOO SUBSTATION 953 IPI 9,803 172 954 HOPE VALLEY METERING POINT **QCBID** 13,403 654 3,481 955 HOPKINS RIDGE SUBSTATION PSF 30,813 956 HORN BUTTE SUBSTATION (INVENERGY WIND) **INVER** 30.813 4.048 1,683 957 HORN RAPIDS SUBSTATION BREA 30.595 958 HORSE HEAVEN SUBSTATION 2,982,891 36,788 959 HOT SPRINGS SUBSTATION 433,070 18,375,338 960 40,198 HUGHS SUBSTATION(SALEM ELEC COOP) SEC 1,649 961 IDAHO FALLS SUBSTATION PAC 2,983 1,597 962 IDAHOME SUBSTATION 471,469 15,239 963 29,094 IMRIE SUBSTATION (PACW) PAC 6,781 INTALCO SUBSTATION 10,253 4% 964 659,933 IONE SUBSTATION 73% 965 582.192 19.826 966 IRBY SUBSTATION BPA/IPL 337,734 7,881

Appendix A

BP-16 Initial Proposal Segmentation Details

B

		posal Segmentation Details	•	_	_
	A	B	С	D	E
	Stations	<u>Vetwork Facilities</u> Owner	Investment (\$)	O&M (\$)	Multi %
967	IRRIGRO SUBSTATION	BPUD	4,436	0 (a)	William 76
968	JENKINS SUBSTATION	KTPUD	183,601	512	
969	JERICHO PUMPING PLANT	GPUD	36,866	1,198	
970	JIGGS-LEE METERING POINT	IPC	22,773	0	
971	JIM CREEK SUBSTATION	USN	20,733	636	
972	JOHN CURTIS SUBSTATION	PLW	76,330	552	
973	JOHN DAY CONSTRUCTION SUBSTATION	KPUD	38,025	534	
974	JOHN DAY SUBSTATION		21,916,385	150,944	49%
975	JOHN DAY SUBSTATION - 230 YARD	MODUD	28,114,749	39,223	
976	JOHNS PRAIRIE SUBSTATION JONES CANYON SUBSTATION	M3PUD	36,662 16,712,468	261	
977 978	JONES CANTON SUBSTATION JONES SUBSTATION	VEC	5,407	38,273 350	
979	JULIAETTA SUBSTATION	AVA	11,005	283	
980	JUNCTION CITY SUBSTATION(BLACHLY-LANE CO ELEC CO		5,106	315	
981	JUNIPER CANYON I SUBSTATION (IR INC.)	IBER	9,144	3,970	
982	KAH-NEE-TA SUBSTATION	WEC	53,561	732	
983	KALISPELL SUBSTATION(BPA)		5,339,069	84,135	
984	KAMIAH SUBSTATION ` ´	AVA	19,894	1,570	
985	KEELER SUBSTATION		67,750,849	1,031,596	
986	KELLER SUBSTATION		464,356	9,168	
987	KELTON SUBSTATION	RREC	21,825	1,310	
988	KENNEDY SUBSTATION	BREA	34,007	2,352	
989	KENNEWICK SUBSTATION(BENTON CO PUD)	BPUD	23,070	278	
990	KERR SUBSTATION(BPA)	A \ / A	1,155,566	24,413	
991 992	KETTLE FALLS SUBSTATION KITSAP SUBSTATION	AVA	5,249 13,062,614	580 170,369	
993	KLONDIKE SCHOOLHOUSE SUBSTATION (IBERDOLA)	IBER	29,337	5,888	
994	KLONDIKE SUBSTATION	WEC	99,532	4,186	
995	KNAPPA SVENSEN SUBSTATION	PAC	2,188	302	
996	KOOSKIA SUBSTATION	AVA	21,459	332	
997	LA GRANDE SUBSTATION		7,319,965	52,391	
998	LA PINE SUBSTATION		11,685,487	88,621	
999	LAGOON SUBSTATION	CMF	22,101	602	
1000	LAGRANDE POWERHOUSE	TPWR	18,997	0	
1001	LAKE BAY SUBSTATION	PLC	7,193	1,085	
1002 1003	LAKE GROVE SUBSTATION LAKE LENORE #1 IRRIGATION PUMP	LLP QCBID	62,954 12,122	566 326	
1003	LAKE LENORE #2 IRRIGATION PUMP	QCBID QCBID	12,736	777	
1005	LAKESIDE SUBSTATION (CLP)	CLPUD	21,534	961	
1006	LAKESIDE SUBSTATION (FEC)	FEC	22,744	529	
1007	LAKEVIEW SUBSTATION	SVEC	59,059	685	
1008	LANCASTER SUBSTATION(BPA)		365,490	62,771	
1009	LANE SUBSTATION		14,241,070	172,946	
1010	LARENE SUBSTATION (INLAND)	IPL	440	195	
1011	LATERAL 4 METERING POINT	YPWR	42,935	2,184	
1012	LATHAM SUBSTATION	EPUD	89,194	703	
1013	LEBANON SUBSTATION		3,701,597	27,647	
1014 1015	LEVEY SUBSTATION LEWIS & CLARK SUBSTATION	PAC	810,177 7,015	19,051 0	
1016	LEXINGTON SUBSTATION	TAC	4,189,513	93,632	
1017	LIBBY SUBSTATION(BPA)		5,974,273	135,458	67%
1018	LIBBY SUBSTATION(BPA/FLATHEADELEC)	BPA/FEC	674,984	9,811	0.70
1019	LINDEN SUBSTATION (KPUD)	KPUD	10,273	0	
1020	LION MOUNTAIN SUBSTATION	FEC	47,515	1,240	
1021	LITTLE FALLS GENERATING PLANT	AVA	3,547	0	
1022	LITTLE GOOSE SUBSTATION		9,986,440	76,055	80%
1023	LOCUST SUBSTATION	MEWC	32,812	1,229	
1024	LODHOLM SUBSTATION	PLC	59,434	268	
1025	LOLO SUBSTATION(MPC)	NWE	16,060	169	
1026	LONE PINE SUBSTATION(PACIFICORP)	NVEC	26,796 35,278,815	0 247.007	
1027 1028	LONGVIEW SUBSTATION LOOKINGGLASS SUBSTATION(BPA)		35,278,815 329,093	247,097	
1028	LOOKINGGLASS SUBSTATION(BPA) LOOKOUT POINT SUBSTATION		1,660,895	3,033 22,553	75%
1029	LOPEZ ISLAND SUBSTATION(BPA)		6,976,971	78,020	7070
1031	LOST RIVER SUBSTATION	BPA/LREC	1,860,060	30,052	
1032	LOW GAP METERING POINT	QCBID	11,133	501	
1033	LOWER BULB GENERATING PLANT	IFP	16,027	0	
1034	LOWER GRANITE SUBSTATION		6,286,185	79,297	75%

С Ε Α D **Network Facilities** Owner Investment (\$) O&M (\$) Multi% Stations 1035 LOWER MONUMENTAL SUBSTATION 16,646,615 102,719 88% LOWER WOODCHUCK SUBSTATION **RCEC** 1036 34,740 241 LUHR BEACH SUBSTATION 1037 PSE 58,733 1,051 LUMP GULCH SUBSTATION 1038 NWF 20,312 1,141 LYLE SUBSTATION 1039 **KPUD** 48.978 363 1040 LYN PUMPS PUMPING PLANT **USBR** 28,149 0 1041 MABTON SUBSTATION 1,352,795 11,115 MACKAY SUBSTATION LRFC 198,886 1042 91 1043 MACKS INN SUBSTATION **FREC** 429,291 39,127 1044 MADISON SUBSTATION 1,559,262 20,427 1045 MAPLE VALLEY SUBSTATION 67,684,696 444,905 MAPLETON SUBSTATION 68% 1046 387,996 19,533 1047 MARENGO SUBSTATION AVA 28,220 633 1048 MARION SUBSTATION 32,148,738 358,076 91% MARTIN CREEK SUBSTATION 30,817 1049 4,342,343 OHOP 1050 MASHEL PRAIRIE SUBSTATION (OHOP) 131,931 1,324 1051 MASON SUBSTATION(MASON CO PUDNO 3) M3PUD 56,492 347 MAUPIN SUBSTATION 47,363 1052 1,872,509 1053 MAYFIELD POWERHOUSE **TPWR** 3,167 0 1054 MAYFIELD SWITCHYARD **TPWR** 1,550 202,128 MAYVIEW SUBSTATION (INLAND POWER) 100,985 1055 **IPL** 859 MCCULLOUGH SUBSTATION 1056 ELM 484 29,139 1057 MCKENZIE SUBSTATION(EWEB) **EWEB** 47,720 427 1058 MCLOUGHLIN SUBSTATION 30,373 PGE 329.194 1059 MCMINNVILLE SUBSTATION BPA/MWL 1,913,615 55,029 MCNARY SUBSTATION 1060 362,972 88% 45,352,829 **BBEC** 1,009 1061 MESA SUBSTATION 91,656 1062 METALINE FALLS SUBSTATION(PEND OREILLE CO PUD) **POPD** 301 14.425 1063 MIDWAY SUBSTATION(BPA) 16,732,077 251,084 MILAN SUBSTATION AVA 27,672 461 1064 1065 MILL PLAIN SUBSTATION CPU 3,331 0 1066 MILL PRIMARY SUBSTATION PTPC 44,409 n MILLER SUBSTATION(LAKEVIEW LIGHT & PWR) 1067 LLP 123,121 1,097 1068 MILTON SUBSTATION(CITY OF MILTON FREEWATER) CMF 141,908 8,089 1069 MINICO SUBSTATION (UNITED ELECTRIC) UEC 12,493 1,215 MINT FARM SWITCHING STATION 4,616 1070 **MFEC** 12,566 1071 MISSION SUBSTATION UEC 4,255 429 1072 MIST SUBSTATION WOEC 50,488 3,047 1073 MOAB SUBSTATION IPL 27,824 1,049 MOHLER SUBSTATION(TILLAMOOK PUD) **TPUD** 1074 29,278 2,557 MONROE SUBSTATION 39,368,091 1075 676,141 MORRISON SUBSTATION **CCEC** 1076 17,456 0 MOSCOW SUBSTATION 1077 AVA 13,897 463 MOSSYROCK SUBSTATION 1078 **LPUD** 17,122 0 **TPWR** MOSSYROCK SWITCHYARD 949 1079 47,727 1080 MOUNTAIN HOME SUBSTATION(IDAHO POWER) 2,548 **IPC** 67,338 MOUNTAIN VIEW SUBSTATION(MASON CO PUD NO 3) M3PUD 1081 29,452 177 MOXEE SUBSTATION 2,368,692 41,495 1082 BFY 1,430 1083 MOYIE DAM 32,179 1084 MT. HALL SUBSTATION NLI 15,208 697 MT. VERNON SUBSTATION(SPRINGFIELD UTILITY BOARD) 1085 SUB 7,307 208 1086 MURRAY SUBSTATION 9,537,277 219,691 NAPAVINE SUBSTATION 1087 848,895 20,052 1088 NARROWS SUBSTATION PLC 96,416 3,020 NASELLE SUBSTATION 1089 4,091,803 69,581 1090 NEFF ROAD METERING POINT CEC 46,637 547 NEWCOMB SUBSTATION(SOLD) 1091 SSE 28,362 855 NEWPORT SUBSTATION(INLAND POWER) 1092 **IPL** 262.565 1.042 NINE CANYON SUBSTATION (BENTON PUD) **BPUD** 87,961 8,099 1093 1094 NINE MILE SUBSTATION (FPLE) **FPLE** 42,950 4,488 1095 NORTH BEND SUBSTATION PSF 39,582 271 1096 NORTH BONNEVILLE SUBSTATION BPA/SKPUD 7,070,403 107,370 63% NORTH BROOKINGS SUBSTATION 1097 CCFC 439,706 7,150 1098 NORTH LEWISTON SUBSTATION AVA 20,900 98 1099 NORTH PASCO SUBSTATION **FPUD** 59,484 594 NORTH PORT SUBSTATION (CCL) 25,067 80 1100 CCL NORTH POWDER SUBSTATION 1101 IPC. 4.392 0 1102 NOTI CREEK SUBSTATION **EPUD** 114,195 1,902

С Ε Α D **Network Facilities** Owner Investment (\$) O&M (\$) Multi% Stations 1103 NOXON CONSTRUCTION SUBSTATION AVA 207.354 1,029 50,959 NOXON DAM POWERHOUSE 1104 AVA NOXON SWITCHYARD 954 1105 AVA 3,248 17,403 OAK KNOLL SUBSTATION PAC 416 1106 1107 OAKRIDGE SUBSTATION (LANE ELECTRIC) LEC 156.911 2.093 ODESSA SUBSTATION 13,857 1108 816,570 O'GARA SUBSTATION AVA 1109 1,305 342 2,752 OHOP SUBSTATION **TPWR** 1110 61,175 OKANOGAN SUBSTATION **OPUD** 1111 10,025 1,542 OLD LOWER GENERATING PLANT **IFP** 7,514 1112 n OLINDA SUBSTATION WAPA 362,189 45 1113 OLNEY METERING POINT 1114 WOFC 35,014 620 OLYMPIA SUBSTATION OLYMPIC PIPELINE 1115 35,731,240 483,300 1116 **SNOPUD** 12,580 447 OMAK SUBSTATION 13,613 337 1117 OPUD 1118 OPHIR SUBSTATION **OPUD** 11,385 0 1119 OPPORTUNITY SUBSTATION AVA 15,961 268 OREGON CITY SUBSTATION 1120 5,257,822 78,989 OREMET SUBSTATION PAC 1121 31,352 OSTRANDER SUBSTATION 52,149,717 345,931 1122 OTHELLO SUBSTATION 1123 AVA 69,527 14 OUTBACK SOLAR GENERATING PLANT (OUTBACK SOLAR, LLC) OSLLC 1124 14,510 115 1125 OVANDO SUBSTATION 1,485,661 27,639 PPUD OXBOW SUBSTATION(PACIFIC CO PUD) 1126 14,180 830 1127 PACIFIC SUBSTATION UEC 39,385 524 1128 PACKWOOD POWERHOUSE **ENW** 21,911 1,069 1129 PACKWOOD SUBSTATION **LPUD** 59,119 0 PARKDALE SUBSTATION 1130 628,684 10,296 51% 1131 PARKLAND SUBSTATION **PLW** 20,439 PASCO SUBSTATION PAC 97,900 979 1132 **OPUD** 1133 PATEROS SUBSTATION 11,455 0 1134 PATERSON SUBSTATION **BPUD** 19,705 569 PATTON VALLEY METERING POINT 1135 WOEC 17,235 499 1136 PATU SUBSTATION **PATU** 6,177 0 1137 PAUL SUBSTATION 14,678,147 218,537 1138 PE ELL SUBSTATIONLEWIS CO PUD) **LPUD** 16.913 822 1139 PEARL SUBSTATION 39,893,496 292,007 PEBBLE SPRINGS SUBSTATION (IBERDOLA) 1140 **IBER** 193,916 0 1141 PENDERGAST SUBSTATION VEC 5,409 392 PENDLETON SUBSTATION BPA/UEC 1142 43,283 17,418 PHILLIPS SUBSTATION **BPUD** 51,248 1143 625 PIHL ROAD METERING POINT WOEC 235 1144 12,687 PIKE METERING POINT WOEC 803 1145 46,084 PILOT ROCK SUBSTATION 1146 PAC 166,943 413 1147 PINE HOLLOW SUBSTATION WEC 9,950 1,305 PIONEER SUBSTATION M3PUD 26,068 63 1148 PLEASANT HILL SUBSTATION 1149 **EPUD** 25,938 145 PLEASANT VIEW SUBSTATION AVA 203 1150 6,044 55,840 PLUMMER SUBSTATION 980 1151 AVA PLYMOUTH SUBSTATION 385 1152 **BREA** 41,633 POINT OF ROCKS SUBSTATION 1153 **VEC** 47,044 1,319 POMEROY SUBSTATION(BPA) BPA/IPL 17,328 1154 85,125 PONDEROSA SUBSTATION(BPA) 89,865 1155 53,921,195 POPCORN HILL METERING POINT **PGE** 1156 22,116 0 PORT ANGELES SUBSTATION(BPA) 284,258 18,129,316 1157 1158 PORT ANGELES SUBSTATION(ITT RAYONIER) NPI 465,014 0 PORT ORFORD SUBSTATION 1159 38,845 1.504 9% PTPC 1160 PORT TOWNSEND SUBSTATION 54.323 1.490 POTHOLES EAST CANAL GENERATING PLANT **SCBID** 1161 14.299 116 1162 POTHOLES SUBSTATION 4,230,633 97,834 AVA POTLATCH SUBSTATION(AVISTA) 629 1163 34,912 POTLATCH SUBSTATION(BPA) 932,667 20,182 83% 1164 POWERLINE SUBSTATION 1165 FPI ID 22.086 465 PRAIRIE SUBSTATION(WWP & KOOTENAI ELEC COOP) KEC/VWP 1166 15,691 213 1167 PRIEST RIVER SUBSTATION(AVISTA) 30,389 AVA311 1168 PRIEST RIVER SUBSTATION(BPA) 784,499 12,433 PROSSER SUBSTATION(BENTON CO PUD) **BPUD** 12.087 1169 480 1170 PURDY SUBSTATION PLC 59,163 833

Appendix A

BP-16 Initial Proposal Segmentation Details

B

	Α	Naturals Facilities	В	С	D	E
	Stations	Network Facilities Own	ner	Investment (\$)	O&M (\$)	Multi%
1171	PYRAMID SUBSTATION	CSC		26,868	642	maiti 70
1172	QUARTZ SUBSTATION (IDAHO POWER)	IPC		9,766	954	
1173	QUILCENE SUBSTATION	JPUI		25,406	0	
1174	QUINCY SUBSTATION	GPU		16,867	105	
1175	RADAR PUMPING PLANT	USB		13,763	540	
1176 1177	RAFT SUBSTATION RAINIER SUBSTATION	RRE CTP		2,177 146,713	2,862 716	
1178	RALSTON SUBSTATION (BIG BEND)	BBE		5,604	219	
1179	RANDLE SUBSTATION	LPUI		32,099	0	
1180	RATHDRUM SUBSTATION	AVA	Ą	28,219	1,371	
1181	RATTLESNAKE ROAD SUBSTATION (HORIZON WIND)	AWI		16,318	0	
1182	RATTLESNAKE SUBSTATION(BENTONREA)	BRE	A	43,829	626	
1183	RAVER SUBSTATION			43,748,874	313,427	
1184 1185	RAYMOND SUBSTATION REATA SUBSTATION(BENTON CO PUD)	BPU	ID	2,961,404 12,863	79,888 356	
1186	RED MOUNTAIN SUBSTATION	Б. О		4,273,462	30,691	
1187	REDMOND SUBSTATION(BPA)			35,201,178	258,620	
1188	REEDSPORT SUBSTATION (BPA)			2,819,692	35,352	79%
1189	REPUBLIC SUBSTATION			537,888	15,410	
1190	RESTON SUBSTATION			347,850	11,321	
1191 1192	RICHLAND SUBSTATION RILEY SUBSTATION	HEC		2,451,184 50,777	52,640 413	
1193	RIMROCK LAKE SUBSTATION (BENTON REA)	BRE		30,789	215	
1194	RIVER ROAD GENERATION PLANT SUBSTATION	CPU		10,244	4,332	
1195	RIVERBEND LANDFILL GENERATING PLANT (WM LLC)	WMI		10,273	769	
1196	RIVERFRONT SUBSTATION	BPU		21,522	241	
1197	RIVERGATE SUBSTATION	PGE		4,468	557	
1198	RIVERTON SUBSTATION(CITY OF HEYBURN)	HEY		22,577	602	
1199 1200	ROBBINS ROAD METERING POINT ROCK CREEK SUBSTATION	YPW	VK	20,394 42,927,116	365 90,146	
1200	ROCKY BROOK POWERHOUSE	M1P	PUD	2,016	480	
1202	ROCKY REACH SUBSTATION			4,230,844	15,418	
1203	ROE'S CORNER SUBSTATION	RUP	T/EEM/REC	38,236	2,088	
1204	ROGUE SUBSTATION			15,892,726	116,938	
1205	ROSALIA SUBSTATION	AVA	Ą	28,425	1,013	
1206 1207	ROSS SUBSTATION ROUND VALLEY SUBSTATION			14,460,085 1,571,272	390,677 21,933	
1207	ROUNDUP SUBSTATION			5,356,636	74,676	
1209	ROXBORO SUBSTATION	AVA	4	21,585	701	
1210	ROY L ZIMMERMAN SUBSTATION	CCL		45,535	381	
1211	ROZA SUBSTATION	ED!	_	3,368	0	
1212	RUBY STREET SUBSTATION (FRANKLIN CO PUD)	FPUI		61,727	1,154	
1213 1214	RUSSELL SMITH POWERHOUSE SACAJAWEA SUBSTATION	SCB	SID	11,906 23,153,747	82 56,286	99%
1215	SACHEEN SUBSTATION			2,175,355	51,000	3370
	SAGEHILL SUBSTATION	FPUI	D	1,506	508	
1217	SALEM ALUMINA SUBSTATION(SALEM ELEC COOP)	SEC		18,224	377	
1218	SALEM SUBSTATION (SALEM ELEC)		/SEC	5,502,971	100,061	
1219	SAMMAMISH SUBSTATION	PSE		1,911	54	
1220 1221	SAMUELS SUBSTATION SAND CREEK SUBSTATION	NLI		42,869 5,920,812	6,720 39,172	
1222	SAND DUNES SUBSTATION	GPU	ID	3,510,776	0	
1223	SAND HILL CRANE SUBSTATION	RICH		70,897	1,126	
1224	SANDPOINT SUBSTATION(BPA)			991,943	23,438	76%
1225	SANTIAM SUBSTATION			15,084,336	257,346	95%
1226	SAPPHO SUBSTATION	OL IE	N ID	1,673,235	63,123	
1227	SATSOP PARK SUBSTATION (GHPUD)	GHP	7 0D	171,077	3,519	
1228 1229	SATSOP SUBSTATION(BPA) SATUS 2 SUBSTATION	YPW	VR	19,689,183 9,693	113,327 0	
1230	SATUS 3 SUBSTATION	YPW		28,953	0	
1231	SCAPPOOSE SUBSTATION	PGE		39,482	528	
1232	SCARCELLO SUBSTATION (KOOTENAI ELECTRIC)	KEC	;	10,025	447	
1233	SCHULTZ SUBSTATION	140	- 0	64,962,498	200,618	
1234	SCOGGINS VALLEY METERING POINT	WO	EC	27,685	326	700/
1235 1236	SCOOTENEY SUBSTATION SEDRO WOOLLEY SUBSTATION	PSE		913,406 41,393	16,682 579	70%
1230	SETTERS SUBSTATION	KEC		18,961	88	
1238	SEVEN FEATHERS SUBSTATION (UIUC)	UIUC		10,387	1,064	
	` '			•	•	

С Ε Α D **Network Facilities** Owner Investment (\$) O&M (\$) Multi% Stations SHANO SUBSTATION 1239 **BBEC** 32.045 361 SHELTON SUBSTATION 28,068,188 1240 139,598 SHEPHERDS FLAT SUBSTATION (CAITHNESS SF) 1241 CASH 63,847 0 SHORT MOUNTAIN GENERATING PLANT 1242 **EPUD** 17,681 299 1243 SICKLER SUBSTATION 11.492.823 440.137 SIFTON SUBSTATION 1244 6,042,486 109,482 1245 SILVER BOW SUBSTATION 24,837 1,751,947 SILVER CREEK SUBSTATION 1246 2,426,867 60,824 SILVER STAR SUBSTATION 909 1247 VEC 44,433 1248 SILVERADO SUBSTATION (CLALLAMCO. PUD) **CMPUD** 119,823 111 68,054 1249 SKOOKUM SUBSTATION M3PUD 340 73,092,471 178,792 97% 1250 SLATT SUBSTATION 1251 SMITH CREEK POWERHOUSE SFH 4,962 285 1252 SMITHSON SUBSTATION (KITTITAS CO PUD) **KTPUD** 29,513 0 1253 SNIPES SUBSTATION **BREA** 1,820 90,899 1254 SNIPTION SUBSTATION **CBEC** 47,195 232 1255 SNOHOMISH SUBSTATION 41,318,035 576,758 1256 SNO-KING SUBSTATION 31,733,347 277,320 1257 SNYDER SUBSTATION **RICH** 383 24,522 SODA SPRINGS SUBSTATION 1258 SODA 6,336 0 SOUTH BUTTE SUBSTATION SREC 1259 12,037 0 SOUTH CUT BANK SUBSTATION GEC 11,955 1260 0 1261 SOUTH ELMA SUBSTATION **GHPUD** 342,096 3,108 SOUTH FORK SUBSTATION **TPUD** 1262 49,334 484 1263 SOUTH SLOPE SUBSTATION **BREA** 31,283 249 1264 SOUTH SUBSTATION (SEATTLE CITY LIGHT) SCL 62,772 n 1265 SOUTH TACOMA SUBSTATION 4,284,160 57,863 SPALDING SUBSTATION CPC 238 1266 51,421 SPANGLE SUBSTATION 1267 AVA 18,957 301 1268 SPAR CANYON SUBSTATION **SREC** 544,905 41,268 1269 SPAW SUBSTATION **BPUD** 11,078 0 1270 SPEARFISH SUBSTATION(KLICKITAT CO PUD) **KPUD** 35,741 999 1271 SPRING CREEK SUBSTATION 9,530,317 38,317 23,401 1272 SPRINGFIELD SUBSTATION(SPRINGFIELD UTILITY BOARD) SUB 0 SPRINGHILL SUBSTATIONIINLAND POWER & LIGHT) ST. HELENS SUBSTATION 1273 23,544 282 2,003 1274 **PGE** 18.502 ST. JOHNS SUBSTATION 1275 7,539,819 167,114 1276 STEVENS DRIVE SUBSTATION(CITYOF RICHLAND) **RICH** 51,835 211 **SKPUD** 1277 STEVENSON SUBSTATION 25,896 1,330 STEVENSVILLE SUBSTATION 1278 **RCEC** 2,086 749 STILLWATER SUBSTATION(LINCOLNELECTRIC COOP) 1279 LINC 37,172 847 SUBSTATION FG USN 1280 15,482 4,517 SUGAR MILL SUBSTATION 1281 **IFP** 185,017 863 SULLIVAN SUBSTATION(VERA WATER & POWER) VWP 1282 5,684 202 1283 SUMAS SUBSTATION SUM 13,840 895 1284 SUMMER LAKE SUBSTATION PAC 2,269,369 37,293 43% SUMNER SUBSTATION 1285 **CCEC** 22,970 606 SUN HEAVEN NO. 2 SUBSTATION **BPUD** 1286 31,152 961 1287 SUNNYSIDE PORT SUBSTATION **BREA** 35,471 0 SUNSET ROAD SUBSTATION (BENTON CO PUD) 1288 **BPUD** 26,467 523 SWAN VALLEY SUBSTATION 1289 5,493,001 55.051 92% 1290 SWEETWATER SUBSTATION AVA 22,846 586 TACOMA SUBSTATION 17,545,371 447,441 93% 1291 TAFT SUBSTATION 220,480 1292 34,179,384 TAHKENITCH SUBSTATION 56,936 1293 7,127,297 1294 TAPTEAL SUBSTATION **RICH** 92,685 700 1295 TARBELL SUBSTATION **CRPUD** 18,665 313 TARGHEE SUBSTATION
TARGHEE TAP SWITCHING STATION 1296 **BPA/FREC** 1.595.611 48.256 1297 2,393 317.710 1298 TARKIO SUBSTATION (MISSOULA) MEC 3,886 391 53,710 1299 TAYLOR FLATS SUBSTATION **FPUD** 380 TEANAWAY SUBSTATION 339 1300 **KTPUD** 398 TECOMA METERING POINT 1301 RRFC 15.357 1.437 1302 TETON SUBSTATION 3,212,501 62,250 1303 RICH THAYER DRIVE SUBSTATION(CITY OF RICHLAND) 85,951 754 1304 THE DALLES SUBSTATION BPA/NWPUD/WEC 2,378,051 47,957 1305 THOMPSON FALLS SUBSTATION NWF 41.428 1,313

EWEB

27,476

435

1306

THURSTON SUBSTATION

С Ε Α D **Network Facilities** Owner Investment (\$) O&M (\$) Multi% Stations 1307 TIDE FLATS SUBSTATION **TPWR** (1,389)0 TILLAMOOK SUBSTATION 7,803,817 1308 141,338 TIMBER SUBSTATION 1309 748,498 25,770 TINCUP SUBSTATION LVE 11,575 1310 559,127 1311 TOLEDO SUBSTATION 12,832,803 130.368 TOSTON SUBSTATION NWF 1312 24,600 2,919 TOWNSEND METERING POINT 35,194 1,340 1313 VEC **TPUD** 19,987 1314 TRASK RIVER SUBSTATION 2.130 TREGO SUBSTATION(LINCOLN ELECTRIC COOP) **BPA/LINC** 1315 588,787 12,186 TRENTWOOD SUBSTATION 3,391,935 31,139 49% 1316 TROUT CREEK SUBSTATION 1317 NLI 45,108 507 TROUTDALE SUBSTATION(BPA) 30,368,480 189,376 1318 TROY SUBSTATION 1319 114,273 3,278 12% 1320 TRUMBULL CREEK SUBSTATION **FEC** 51,540 581 TUCANNON RIVER SUBSTATION 42,462 1321 3,851,588 1322 TUM TUM SUBSTATION 21,889 486 1323 TWILIGHT SUBSTATION **PGE** 20,840 167 66,883 TWISP SUBSTATION **OPUD** 1324 0 1325 TYEE SUBSTATION LLP 86,912 900 TYGH VALLEY SUBSTATION (WASCO ELEC. COOP) **WEC** 27,349 481 1326 1327 U. S. PLYWOOD SUBSTATION **LPUD** 15,723 0 UKIAH SUBSTATION CPCA 1,339 1328 81,846 1329 UNDERWOOD SUBSTATION **SKPUD** 29,277 1,427 UNDERWOOD TAP AUTO-SECTIONALIZING STATION 1330 698,308 2,489 1331 UNITY SUBSTATION (IDAHO POWERCOMPANY) 6,894 0 1332 UNITY SUBSTATION(BPA) **BPA/UEC** 1,553,224 50,272 1333 UPPER GENERATING PLANT **IFP** 17,829 0 USK SUBSTATION(BPA) 1334 BPA/POPD 26,154 136.257 1335 VALHALLA SUBSTATIÓN BPA/CHPD 3,639,321 125,270 92% 1336 VALLEY SUBSTATION(RAFT RIVER ELEC COOP) **RREC** 2,204 23,392 VANCOUVER SHIPYARD SUBSTATION 1337 CPU 26,421 0 1338 VANTAGE STATE PARK METERING POINT **GPUD** 20,238 n 1339 **VANTAGE SUBSTATION** 31,931,207 211,509 1340 VAUGHN SUBSTATION PLC 29,287 978 1341 VERA SUBSTATION (VERA W&P, INLAND P&L) IPL/VWP 10,025 717 VICTOR SUBSTATION (RAVALLÍCOUNTY ELÉC COOP) 1342 **RCEC** 6,943 494 VICTOR SUBSTATION(FALL RIVER RURAL ELEC COOP) 1343 **FREC** 81,618 588 1344 VIEW SUBSTATION CPU 13,906 264 1345 VINSON METERING POINT UEC 27,323 453 1346 VISTA SUBSTATION **BPUD** 25,231 306 1347 WAGNER LAKE SUBSTATION 543,101 13,443 **GPUD** 1348 WAHLUKE SUBSTATION 10,343 0 WALLA WALLA SUBSTATION(BPA) 1349 10,333,966 82,010 WALLA WALLA SUBSTATION(PACÍFICORP) 1350 PAC 224,061 0 256 1351 WALNUT CITY SUBSTATION(CITY OF MCMINNVILLE) 9,653 MWL 1352 WALTON SUBSTATION 21,204 1,129 6% **GPUD** 1353 WARDEN POLE METERING POINT 14,752 1,589 WARDEN POLE NO 2 METERING POINT 1354 **GPUD** 13,121 0 1355 58,162 WARNER SUBSTATION 3,553,133 WARREN SUBSTATION 1356 594,774 28,974 1357 WAUTOMA SUBSTATION 23,661,602 85,037 1358 WEIPPE SUBSTATION AVA 18,934 329 WELLS SUBSTATION(IDAHO POWER) 1359 **IPC** 53,246 830 WENDSON SUBSTATION 6,549,565 95,333 1360 **UEC/BURL** WEST BURLEY SUBSTATION(UNITEDELEC COOP) 156,561 2,769 1361 1362 WEST JOHN DAY SUBSTATION OTEC 32,991 2,082 1363 WEST PLAINS SUBSTATION (IP&L) IPI 13,630 177 1364 WEST REXBURG METERING POINT PAC 21.513 0 WEST WELLS SUBSTATION 170 1365 WRFC 18,036 1366 WEST WENDOVER METERING POINT **WREC** 59,200 761 1367 WESTCOTT SUBSTATION (CANBY ELECTRIC) CUB 22,976 238 1368 WESTMORELAND SUBSTATION 5,482 **FWFB** 0 WESTSIDE SUBSTATION(BPA) 38.716 1369 6,708,590 WEYERHAEUSER INDUSTRIAL WAY WEYCO NO 1 SUBSTATION (COWLITZ 1370 **CWPUD** 20,731 387 10,273 1371 WHEAT FIELD SUBSTATION (WFWPP) 0 FDP 1372 WHEELER SUBSTATION **GPUD** 10,359 0 1373 WHITCOMB SUBSTATION **BPUD** 536 95.864 1374 WHITE BLUFFS SUBSTATION 8,486,563 66,756

Appendix A BP-16 Initial Proposal Segmentation Details B

	A	В	С	D	E
		Network Facilities			
	Stations	Owner	Investment (\$)	O&M (\$)	Multi %
1375	WHITE CREEK SUBSTATION (KPUD)	KPUD	200,409	7,210	
1376	WHITE RIVER SUBSTATION	PSE	10,703	28	
1377	WHITE SWAN SUBSTATION(BENTON REA)	BREA	10,025	917	
1378	WHITEHALL SUBSTATION	VEC	48,014	1,133	
1379	WILLAKENZIE SUBSTATION	EWEB	32,420	0	
1380	WILLARD JOHNSON SUBSTATION(HOOD RIVER ELEC)	HREC	22,483	220	
1381	WILLIS SUBSTATION (KPUD)	KPUD	38,602	3,657	
1382	WILSON RIVER SUBSTATION	TPUD	46,669	750	
1383	WINCHESTER SUBSTATION	USBR	3,851	654	
1384	WINDISHAR SUBSTATION	MWL	32,018	6,614	
1385	WINE COUNTRY SUBSTATION	BPA/PAC	6,342,281	17,381	
1386	WINNEMUCCA SUBSTATION	NVE	134,454	1,563	
1387	WINTHROP SUBSTATION		1,167,692	27,434	76%
1388	WOODLAND SWITCHING STATION	PAC	250,630	937	
1389	WOODSIDE SUBSTATION (RAVALLICO ELEC COOP)	RCEC	17,660	0	
1390	WREN SUBSTATION		1,431,565	18,896	
1391	WYNOOCHEE HYDRO PLANT	TPWR	73,355	1,482	
1392	ZEPHYR HEIGHTS SUBSTATION		46,512	196	
1393	Subtotal Stations		2,356,545,168	26,131,989	
1394	Total Network		4,848,426,351	32,167,113	

	A	B B	C I)	E
	Transmission Lines	Southern Intertie Facilities Owner	Investment (\$)	O&M (\$)	Multi%
1395	ALVEY-DIXONVILLE NO 1	BPA/PAC	25,192,398	0	
1396	BIG EDDY 500/230KV TIE NO 1		51,352	2,432	
1397	BIG EDDY-CELILO NO 1		1,284,742	333	
1398	BIG EDDY-CELILO NO 2		1,463,788	872	
1399	BIG EDDY-CELILO NO 3		373,697	197	
1400	BIG EDDY-CELILO NO 4		249,132	252	
1401	BUCKLEY-GRIZZLY NO 1		9,961,133	5,680	57%
1402	BUCKLEY-MARION NO 1		20,369,871	17,796	50%
1403	CAPTAIN JACK-MALIN NO 1		844,154	2,979	
1404	CAPTAIN JACK-OLINDA NO 1		7,393,503	1,414	
1405	CELILO-SYLMAR NO 1		27,022,357	129,971	400/
1406	COYOTE SPRINGS-SLATT NO 1		328,931	552 939	12%
1407 1408	DIXONVILLE-MERIDIAN GRIZZLY-CAPTAIN JACK NO 1		32,272,663		
1406	GRIZZLY-CAPTAIN JACK NO 1 GRIZZLY-SUMMER LAKE NO 1		22,288,387 19,480,851	101,537 22,051	57%
1410	JOHN DAY-BIG EDDY NO 1		2,008,149	2,404	31 /6
1411	JOHN DAY-GRIZZLY NO 1		12,099,924	36,515	
1412	JOHN DAY-GRIZZLY NO 2		10,521,016	25,731	
1413	MARION-ALVEY NO 1		4,456,110	17,990	50%
1414	SLATT-JOHN DAY NO 1		328,108	1,250	7%
1415	Subtotal Lines		197,990,267	370,892	
	Stations	Owner	Investment (\$)	O&M (\$)	Multi%
1416	ALVEY SUBSTATION		8,053,719	79,981	26%
1417	BAKEOVEN COMPENSATION STATION		22,868,102	25,953	
1418	BIG EDDY 500 KV SWITCHYARD		12,191,059	53,050	
1419	BIG EDDY SUBSTATION		60,615,224	498,250	81%
1420	BUCKLEY SUBSTATION		6,248,137	62,236	64%
1421	CAPTAIN JACK SUBSTATION		41,181,037	149,607	
1422	CELILO CONVERTER NO 3		880,128	6,855	
1423	CELILO CONVERTER NO 4		864,806	2,919	
1424	CELILO DC CONVERTER STATION		300,727,223	3,242,784	20/
1425 1426	CHIEF JOSEPH SUBSTATION DIXONVILLE SUBSTATION	PAC	1,081,225	22,907 0	3%
1426	FORT ROCK COMPENSATION STATION	PAC	7,837,854 15,955,175	75,044	
1428	GRIZZLY SUBSTATION		32,130,656	309,929	
1429	JOHN DAY SUBSTATION		12,128,698	83.533	27%
1430	MALIN SUBSTATION	BPA/PAC	25,289,419	287,207	21 /0
1431	MARION SUBSTATION	51711710	3,342,294	37,227	9%
1432	MERIDIAN SUBSTATION(PACIFICORP)	PAC	7,458,872	0.,	0,0
1433	ROUND MOUNTAIN SUBSTATION	PG&E	65,046	0	
1434	SAND SPRING COMPENSATION STATION		17,142,517	95,458	
1435	SLATT SUBSTATION		2,295,096	5,614	3%
1436	SUMMER LAKE SUBSTATION	PAC	3,008,234	49,435	57%
1437	SYCAN COMPENSATION STATION		14,453,018	82,003	
1438	SYLMAR DC CONVERTER STATION	LADWP	2,784	0	
1439	Subtotal Stations		595,820,323	5,169,992	
1440	Total Southern Intertie		793,810,590	5,540,884	

	Α	В	C D)	E
		Eastern Intertie Facilities			
	Trans mission Lines	Owner	Investment (\$)	O&M (\$)	Multi %
1441	BROADVIEW-GARRISON NO 1	BPA/COTP	47,280,913	37,795	
1442	BROADVIEW-GARRISON NO 2	BPA/COTP	46,990,310	16,190	
1443	Subtotal Lines		94,271,222	53,985	
	Stations	Owner	Investment (\$)	O&M (\$)	Multi %
1444	Stations COLSTRIP SUBSTATION	Owner NWE	Investment (\$) 43,099	O&M (\$) 798	Multi%
1444 1445					Multi%
	COLSTRIP SUBSTATION		43,099	798	

	A)	E
	Transmission Lines	<u>Utility Delivery Facilities</u> Owner	Investment (\$)	O&M (\$)	Multi%
1448	ALBANY-BUREAU OF MINES NO 1	Owner	23,660	452	Willi 70
1449	GROUSE CREEK-TECOMA (LEASED FACILITIES)		121,332	0	6%
1450	HOOD RIVER-COOP SERVICE NO 1		23,808	735	070
1451	Subtotal Lines		168,799	1,186	-
1-101		0			N/114:0/
4.450	Stations	Owner	Investment (\$)	O&M (\$)	Multi %
1452 1453	ACTON SUBSTATION		163,592	10,339	100/
1453	ALBANY SUBSTATION ALDERWOOD SUBSTATION		1,591,607 677,667	14,444 8,302	12%
1454	BANDON SUBSTATION		797,332	11,198	16%
1456	BONNERS FERRY SUBSTATION		615,682	11,190	27%
1456	BURBANK SUBSTATION		516,445	8,848	83%
1457	BURNT WOODS SUBSTATION		319,577	16,875	03%
1459	CASCADE LOCKS SUBSTATION		518,714	14,221	
1460	DAVIS CREEK SUBSTATION	BPA/SVEC	545,221	14,090	
1461	DIXIE SUBSTATION	BI A/3 V EO	519,936	15,162	
1462	DRAIN SUBSTATION		277,801	3,663	9%
1463	EAGLE LAKE SUBSTATION		372,510	12,306	98%
1464	GARDINER SUBSTATION		635,523	26,269	3070
1465	GLADE SUBSTATION		444,475	9,642	89%
1466	HARRISBURG SUBSTATION		218,361	16,394	0070
1467	HOOD RIVER SUBSTATION		627,556	17.950	51%
1468	IONE SUBSTATION		210,675	7,174	27%
1469	LACLEDE SUBSTATION	BPA/NLI	31,715	8,555	2. 70
1470	LANGLOIS SUBSTATION		1,101,133	18,824	
1471	LYNCH CREEK SUBSTATION		1,271,810	23,805	
1472	MAPLETON SUBSTATION		183,012	9,213	32%
1473	MINIDOKA SUBSTATION		385,789	11,840	
1474	MONMOUTH SUBSTATION		1,244,686	24,829	
1475	MOUNTAIN AVENUE SUBSTATION		2,098,603	16,825	
1476	MOYIE SUBSTATION	BPA/BFY	168,870	7,391	
1477	NECANICUM SUBSTATION	BPA/WOEC	127,264	8,156	
1478	NORTH BENCH SUBSTATION		527,396	5,816	
1479	NORTH BUTTE SUBSTATION	BPA/CPI	168,857	4,062	
1480	PARKDALE SUBSTATION		604,963	9,908	49%
1481	PORT ORFORD SUBSTATION		407,963	15,794	91%
1482	POTLATCH SUBSTATION(BPA)		188,784	4,085	17%
1483	REEDSPORT SUBSTATION (BPA)		734,116	9,204	21%
1484	RINGOLD SUBSTATION		411,773	11,773	79%
1485	SANDPOINT SUBSTATION(BPA)		312,508	7,384	24%
1486	SCOOTENEY SUBSTATION		386,934	7,067	30%
1487	SELLE SUBSTATION		565,619	9,092	
1488	STATELINE SUBSTATION	BPA/CREA	141,727	20,977	
1489	STEILACOOM SUBSTATION		1,101,095	13,204	
1490	SURPRISE LAKE SUBSTATION		760,077	15,504 4,966	8%
1491 1492	SWAN VALLEY SUBSTATION TROY SUBSTATION		495,513 815,848	23,405	88%
1492	TUMBLE CREEK SUBSTATION		979,279	14,346	00 /0
1493	TWO MILE ROAD SUBSTATION	BPA/CCEC	1,517,678	14,290	
1494	WALTON SUBSTATION	DFA/COLO	321,529	17,114	94%
1496	WINTHROP SUBSTATION		361,348	8,490	24%
1497	YAAK SUBSTATION		375,561	16,850	- 170
1498	Subtotal Stations		26,844,123	581,488	-
1499					1
1499	Total Utility Delivery		27,012,923	582,674	=

		A	В	C E)	E
4=00	Transmission Lines	<u>DSI</u>	<u>Delivery Facilities</u> Owner	Investment (\$)	O&M (\$)	Multi%
1500 1501	None Subtotal Lines			0	0	<u>.</u>
1502 1503 1504 1505 1506	Stations CONKELLEY SUBSTATION INTALCO SUBSTATION TRENTWOOD SUBSTATION Subtotal Stations Total DSI Delivery		Owner	Investment (\$) 6,258,745 16,403,546 3,533,679 26,195,970 26,195,970	O&M (\$) 113,694 254,840 32,440 400,975	Multi % 55% 96% 51%

	Α	В	C E)	E
	Unsegmented Facilities (segmented pro-rata)				
	Transmission Lines (allocated according to direct line segmentation)	Owner	Investment (\$)	O&M (\$)	Multi %
1507	BALD MOUNTAIN-CONDIT FIBER SYSTEM		6,914	0	
1508	BELLINGHAM-CUSTER FIBER SYSTEM		128,524	0	
1509	BELL-NOXON FIBER SYSTEM		44,711	0	
1510	BPA SYSTEM-LINES		6,044,940	131,776	
1511	CHENOWETH-HARVEY NO 1		81,982	455	
1512	CHENOWETH-HARVEY NO 2		81,980	351	
1513	CHRISTOPHER TAPTO TACOMA-COVINGTON-4 (RETIRED)		61,063	0	
1514	CONKELLY TAP TO HUNGRY HORSE-COLUMBIA FALLS NO 1 (OBSOLETE)		2,743	0	
1515	COTTAGE GROVE-DRAIN NO 1 (RETIRED)		312,761	0	
1516	COVINGTON-BELL FIBER SYSTEM		80,126	0	
1517	COVINGTON-MAPLE VALLEY FIBER SYSTEM		17,342	0	
1518	FIDALGO-BELLINGHAM FIBER SYSTEM (BLACK ROCK CABLE INC)		360,930	0	
1519	FRANKLIN-MUNRO FIBER SYSTEM		185,538	0	
1520	FRANZ HOLMES TAPTO COWLITZ-LAGRANDE NO 1,2 (OBSOLETE)		276,241	0	
1521	GRAND COULEE 115KV-GRAND COULEE RS FIBER SEG		18,644	0	
1522	JACKSON TAP TO CANAL-SECOND LIFT NO. 1(SOLD)		47,234	397	
1523	KEELER-ALVEY FIBER SYSTEM		1,018,867	0	
1524	KEELER-COVINGTON FIBER SYSTEM		14,035	0	
1525	KEELER-PENNWALT NO 1(DEENERGIZED)		256,113	0	
1526	LANE-FAIRVIEW FIBER SYSTEM		3,435	90	
1527	MARION-SANTIAM 2 (DE-ENERGIZED)		615,992	103	
1528	MCNARY-SANTIAM NO 1(OBS/RET, SEE NOTES)		6,139,225	4,595	
1529	NOXON-TAFT FIBER SYSTEM		357,479	0	
1530	OREGON CITY STUB 20/7-23/12 SECTION(DEENERGIZED)		155	0	
1531	PEARL-TROUTDALE FIBER SYSTEM		113,714	0	
1532	REEDSPORT-TAHKENITCH FIBER SYSTEM		24,936	13,064	
1533	ROSS-FRANKLIN FIBER SYSTEM		3,313,061	0	
1534	ROSS-MALIN FIBER SYSTEM		4,670,521	0	
1535	SANTIAM-LYONS UHV XFMR 1		126,000	0	
1536	TUMBLE CREEK-HALL RIDGE NO.1		610,574	6,275	
1537	VANTAGE-HANFORD NO 1		30,549	16,683	
1538	SubtotalLines		25,046,329	173,788	

	Α	В	С	D	Е
<u>Unsegmented Facilities (segmented pro-rata)</u>					
	Stations (allocated according to direct station segmentation)	Owner	Investment (\$)	O&M (\$)	Multi %
1539	ADDY SUBSTATION		3,092,383	23,962	30%
1540	ALCOA SUBSTATION		1,091,469	18,696	12%
1541	APPLEWAY (INACTIVE. SEE NOTES)	KEC	24,252	0	
1542	ARGENT(INACTIVE. SEE NOTES)	FPUD	55,722	0	
1543	BAYSHORE SUBSTATION(OBS-RETIRED)	M3PUD	19,501	0	
1544	BURBANK SUBSTATION		103,059	1,766	17%
1545	CAPE HORN(INACTIVE. SEE NOTES)	SKPUD	14,135	0	
1546	CENTRALIA START UP(INACTIVE. SEE NOTES)		13,477	0	
1547	COLUMBIA RIVER RANCH METERING POINT(INACTIVE. SEE NOTES)		22,761	0	
1548	EAGLE LAKE SUBSTATION		8,024	265	2%
1549	EAST GRANGEVILLE SUBSTATION		683,793	16,774	
1550	FOSTER (INACTIVE, SEE NODTES)	PAC	4,456	0	
1551	GLADE SUBSTATION		53,296	1,156	11%
1552	GREAT WESTERN MALTING COMPANYSUBSTATION (RETIRED)	CPU	9,499	0	
1553	KAMILCHE SUBSTATION (OBS-RETIRED)	M3PUD	49,049	0	
1554	KIONA HYDROMET STATION		6,709	0	
1555	NORWAY SUBSTATION	CCEC	289,018	14,958	
1556	PAUL D. JOHNSON SUBSTATION		2,847,803	2,410	
1557	RINGOLD SUBSTATION		110,507	3,159	21%
1558	SUN HARBOR SUBSTATION		1,420,980	11,769	
1559	SYSTEM WIDE		3,867,732	5,931,638	
1560	TACOMA SUBSTATION		1,419,016	36,188	7%
1561	VALHALLA SUBSTATION	BPA/CHPD	317,754	10,937	8%
1562	Subtotal Stations		15,524,395	6,073,679	

	A	В	С	D	E
	Unsegmented Facilities (seg	<u>(mented pro-rata)</u> Owner	Invoctment (\$)	O9M (\$)	M14: 0/
1563	Other Locations (allocated according to direct station segmentation) ALVEY MAINTENANCE HEADQUARTERS	Owner	Investment (\$) 5,494,284	O&M (\$)	Multi %
1564	AUGSPURGER MOUNTAIN RADIO STATION		11,893		
1565	BALD MOUNTAIN RADIO STATION		130,284		
1566 1567	BELL MAINTENANCE HEADQUARTERS BIDDLE BUTTE RADIO STATION		536,791 163,480		
1568	BLUE RIDGE RADIO STATION		91,805		
1569	BLYN RADIO STATION		49,179		
1570	BPA SYSTEM		14,820,814		
1571	BPA SYSTEM-MICROWAVE &RADIO STATIONS		182,611		
1572 1573	BPA SYSTEM-NON ELECTRIC PLANT& MISC BURLEY MAINTENANCE HEADQUARTERS		4,919,823 6,969		
1574	CAPE BLANCO RADIO STATION (BPA)		58,688		
1575	CHEHALIS MAINTENANCE HEADQUARTERS		88,062		
1576	CHEMAWA MAINTENANCE HEADQUARTERS		74,117		
1577 1578	COVINGTON MAINTENANCE HEADQUARTERS COYOTE HILLS RADIO STATION		15,113 25,472		
1579	CULDESAC RADIO STATION		6,995		
1580	DECATUR EAST RADIO STATION		50,787		
1581	DECATUR WEST RADIO STATION		47,229		
1582 1583	DEL RIO RADIO STATION DITTMER BPA SYSTEM CONTROL CENTER		13,084 15,918,963		
1584	EASTERN CONTROL CENTER		32,523		
1585	EUGENE C. STARR COMPLEX		9,922,339		
1586	GRAND COULEE RADIO STATION		47,372		
1587 1588	GRANITE MOUNTAIN RADIO STATION GREEN MOUNTAIN PASSIVE REPEATER SITE		144,812 3,007		
1589	HORSE ROCK RADIO STATION		(2,444)		
1590	KALISPELL MAINTENANCE HEADQUARTERS		29,664		
1591	KEELER MAINTENANCE HEADQUARTERS		40,199		
1592 1593	KENNEWICK RADIO STATION LAKESIDE RADIO STATION		49,374 91,184		
1594	LEWISTON MAINTENANCE HEADQUARTERS		59,008		
1595	LONGVIEW ANNEX I		2,363,993		
1596	LONGVIEW MAINTENANCE HEADQUARTERS		6,038,256		
1597 1598	LOWELL BUTTE RADIO STATION MALAGA RADIO STATION		7,559 17,384		
1599	MALIN MAINTENANCE HEADQUARTERS		398,113		
1600	MARYS PEAK RADIO STATION		5,002		
1601	MEGLER RADIO STATION		11,556		
1602 1603	MILLER PEAK RADIO STATION MINT FARM GENERATING PLANT (INNACTIVE)		117,099 36,768		
1603	MT. HEBO RADIO STATION		12.244		
1605	MUNRO BPA SYSTEM CONTROL CENTER		3,666,958		
1606	NASELLE RIDGE RADIO STATION		295,505		
1607 1608	NORTH BEND MAINTENANCE HEADQUARTERS NORTH BONNEVILLE ANNEX		723,564 29,495		
1609	ODELL BUTTE RADIO STATION		92,507		
1610	OLYMPIA MAINTENANCE HEADQUARTERS		166,376		
1611	OSTRANDER PASSIVE REPEATER SITE		25,022		
1612 1613	PASCO MAINTENANCE HEADQUARTERS REDMOND MAINTENANCE HEADQUARTERS		89,312 247,649		
1614	ROCKDALE PASSIVE REPEATER N1 SITE		85,587		
1615	ROCKDALE RADIO STATION		358,292		
1616	ROCKY RIDGE RADIO STATION		114,415		
1617	ROOSEVELT RADIO STATION ROSS AMPERE BUILDING		13,534		
1618 1619	ROSS COMPLEX		60,525 25,258,882		
1620	ROSS CONSTRUCTION AND SERVICES BUILDING		153,407		
1621	ROSS FOG TEST BUILDING		81,579		
1622 1623	ROSS HEATLINE ROSS MAINTENANCE HEADQUARTERS		5,254,267 12,095		
1623	ROSS MAINTENANCE HEADQUARTERS ROSS MAINTENANCE STORAGE WAREHOUSE		24,336		
1625	ROSS RADIO STATION		7,516		
1626	ROSS TOOLS AND EQUIPMENT BUILDING		676,726		
1627	SCHULTZ MAINTENANCE HEADQUARTERS		1,377,094		
1628	SEATTLE RADIO STATION		3,939		

	A	В	С	D	E
	Unsegmented Facilities (segmented pro-rata)				
	Other Locations (allocated according to direct station segmentation)	Owner	Investment (\$)	O&M (\$)	Multi %
1629	SHANIKO RADIO STATION		16,738		
1630	SICKLER MAINTENANCE HEADQUARTERS		50,012		
1631	SKYROCKET RADIO STATION		6,481		
1632	SNOHOMISH MAINTENANCE HEADQUARTERS		58,551		
1633	SOUTH MOUNTAIN RADIO STATION		2,770		
1634	SPOKANE HANGAR		75,378		
1635	SQUAK MOUNTAIN RADIO STATION		4,272		
1636	TACOMA PUBLIC UTILITIES DISPATCH CENTER		36,618		
1637	TACOMA RADIO STATION		59,709		
1638	WALKER MOUNTAIN RADIO STATION		625,240		
1639	Subtotal Other		101,885,803		
	Emergency Stock (allocated according to direct sub segmentation)	Owner	Investment (\$)		
1640	ROSS WAREHOUSE		11,013,835		
1641	Subtotal Emergency Stock		11,013,835		

	Α	B. De was sinkle I and	С	D	E
	Station Land (segmented to Network)	<u>Depreciable Land</u> Owner	Investment (\$)	O&M (\$)	Multi%
1642	LA PINE SUBSTATION		18,619		
1643 1644	NOXON CONSTRUCTION SUBSTATION OKANOGAN SUBSTATION		1 14.156		
1645	SIFTON SUBSTATION		12,810		
1646	Subtotal Stations		45,586		
	Α	В	С	D	E
4047	Transmission Line Land (segmented to Network)	Owner	Investment (\$)	O&M (\$)	Multi %
1647 1648	ALBANY-BURNT WOODS NO 1 ASHE-SLATT NO 1		307,619 19,806		
1649	BELL-ADDY NO 1		5,046		
1650	BELL-BOUNDARY NO 3		5,046		
1651 1652	BELL-LANCASTER NO 1 BIG EDDY-CHENOWETH NO 1		8,276 387,831		
1653	BIG EDDY-CHENOWETH NO 2		387,596		
1654	BIG EDDY-SPRING CREEK NO 1		391,887		
1655 1656	CHEHALIS-OLYMPIA NO 1 CHEHALIS-RAYMOND NO 1		793 47.011		
1657	CHIEF JOSEPH-EAST OMAK NO 1		47,011 10,724		
1658	CHIEF JOSEPH-MONROE NO 1		141,953		
1659	CHIEF JOSEPH-SNOHOMISH NO 3		31,581		
1660 1661	COLUMBIA-ELLENSBURG NO 1 DE MOSS-FOSSIL NO 1		181,965 320		
1662	DWORSHAK PH-OROFINO NO 1		400		
1663	EAST OMAK TAP TO GRAND COULEE-FOSTER CREEK N	IO 1	174,817		
1664 1665	FAIRVIEW-BANDON NO 2 FIDALGO-LOPEZ ISLAND NO 5		1,602 63,802		
1666	FLATHEAD-HOT SPRINGS NO 1		10,728,941		
1667	FOREST GROVE-TILLAMOOK NO 1		1,731		
1668 1669	FRANKLIN-BADGER CANYON NO 1 GARRISON-ANACONDA NO 1		1,432 1,524		
1670	GOSHEN-DRUMMOND NO 1		3,924		
1671	GRAND COULEE-BELL NO 5		2,114,751		
1672 1673	GRAND COULEE-HANFORD NO 1 GRAND COULEE-OKANOGAN NO 2		14,375 470		
1673	GRAND COULEE-SCHULTZ NO 1		24,380		
1675	HARVALUM-BIG EDDY NO 1		19,142,567		
1676	HORSE HEAVEN-HARVALUM NO 1		387,596		
1677 1678	HOT SPRINGS-RATTLESNAKE NO 1 HUNGRY HORSE-CONKELLEY NO 1		6,007,072 6,043		
1679	KEELER-OREGON CITY NO 2		8,729		
1680	KELLER TAP TO GRAND COULEE-OKANOGAN NO 2		3,200		
1681 1682	KLONDIKE SCHOOLHOUSE-JOHN DAY NO 1 LANCASTER-NOXON NO 1		657,883 82,527		
1683	LIBBY-BONNERS FERRY NO 1		5,851		
1684	LOWER MONUMENTAL-MCNARY NO 1		1,071		
1685 1686	MCNARY-ROSS NO 1 OLYMPIA-GRAND COULEE NO 1		387,596 16,745		
1687	OLYMPIA-SATSOP NO 3		27,986		
1688	OSTRANDER-PEARL NO 1		45,358		
1689 1690	PALISADES-CATTLE CREEK NO 1 PAUL-ALLSTON NO 2		92,439 236		
1691	RAVER-COVINGTON NO 2		387,596		
1692	RAYMOND-COSMOPOLIS NO 1		36,335		
1693 1694	ROCKY REACH-MAPLE VALLEY NO 1 ROSS-LEXINGTON NO 1		210,071 82,898		
1695	ROUNDUP-LAGRANDE NO 1		645,809		
1696	SANTIAM-TOLEDO NO 1		78,122		
1697 1698	SCHULTZ-WAUTOMA NO 1 SPIRIT TAP TO COLVILLE-BOUNDARY NO 1		2,277,742 24,206		
1699	SWAN VALLEY-TETON NO 1		54,679		
1700	TAFT-BELL NO 1		133,069		

1701 1702 1703 1704 1705 1706	A Transmission Line Land (segmented to Network) TUCANNON RIVER-NORTH LEWISTON NO 1 WALLA WALLA-PENDLETON NO 1 WALLA WALLA-TUCANNON RIVER NO 1 WAUTOMA-OSTRANDER NO 1 WAUTOMA-ROCK CREEK NO 1 Subtotal Network Line Land	B Owner	C Investment (\$) 862,880 126,393 1,340 1,747 391,431 47,246,821	D O&M (\$)	E Multi %
1707 1708 1709	Transmission Line Land (segmented to Generation Integration) ANDERSON RANCH-MOUNTAIN HOME NO 1 DETROIT-SANTIAM NO 1 Subtotal GI Line Land	Owner	60,166 677 60,843		
1710 1711 1712 1713 1714 1715	Transmission Line Land (segmented pro-rata) COVINGTON-MAPLE VALLEY FIBER SYSTEM FRANKLIN-HATWAI FIBER SYSTEM HOT SPRINGS-GARRISON FIBER SYSTEM PENDLETON-LAGRANDE ROSS-FRANKLIN FIBER SYSTEM Subtotal Line Land pro-rata	Owner	Investment (\$) 23,437 35,889 58,561 195 97,757 215,839		
1716 1717 1718 1719 1720 1721 1722 1723 1724 1725 1726	Other Facility Land (segmented pro-rata) ALBION BUTTE RADIO STATION APPLEGATE BUTTE RADIO STATION BOISTFORT PEAK RADIO STATION(WEYERHOUSER) CAPITOL PEAK RADIO STATION(BPA) INDIAN MOUNTAIN RADIO STATION ELLIS RADIO STATION HAYSTACK BUTTE RADIO STATION SICKLER PASSIVE REPEATER SITE CAPE BLANCO RADIO STATION (BPA) SEVEN MILE HILL METEOROLOGICAL TOWER Subtotal Other pro-rata	Owner	Investment (\$) 6,356 49,780 9,081 1,916 72,672 6,824 388,346 913 118,992 15,105		

	Α	B Ancillary Service Facilities	С	D	E
	Communication and Control Equipment ***	Owner	Investment (\$)	O&M (\$)	Multi %
1727	ABERDEEN SUBSTATION		124,433	,	
1728 1729	ADAIR SUBSTATION(BPA) ADDY SUBSTATION		2,942 270,287		
1729	ALBANY SUBSTATION		19,130		
1731	ALBENI FALLS SUBSTATION		5,807		
1732	ALCOA SUBSTATION		47,905		
1733 1734	ALFALFA SUBSTATION ALLSTON SUBSTATION		5,205 259,373		
1734	ALVEY SUBSTATION		1,063,136		
1736	ANACONDA SUBSTATION		164,488		
1737	ASHE SUBSTATION		231,328		
1738 1739	BANDON SUBSTATION REAL/ED SUBSTATION (DGE)	PGE	16,566 210,386		
1739	BEAVER SUBSTATION (PGE) BELL SUBSTATION	FGE	210,386 805,634		
1741	BENTON SUBSTATION		3,840		
1742	BETTAS ROAD SUBSTATION		213,160		
1743	BIDDLE BUTTE RADIO STATION		19,866		
1744 1745	BIG EDDY 500 KV SWITCHYARD BIG EDDY SUBSTATION		345,912 1,442,328		
1746	BOARDMAN SUBSTATION		143,981		
1747	BONNERS FERRY SUBSTATION		151,071		
1748	BONNEVILLE BUILDING PORTLAND		92,338		
1749 1750	BONNEVILLE POWERHOUSE #1		310,681		
1750	BOUNDARY SUBSTATION BPA HEADQUARTERS BUILDING		55,264 6,225		
1752	BPA SYSTEM		5,815,092		
1753	BPA SYSTEM-NON ELECTRIC PLANT& MISC		30,999,053		
1754	BRASADA SUBSTATION (CENTRAL ELECTRIC COOI	PERATIVE) CEC	187,017		
1755 1756	BRIDGE SUBSTATION BUCK BUTTE RADIO STATION		34,676		
1757	BUCKLEY SUBSTATION		8,923 42,924		
1758	CALPINE SUBSTATION	CPN	170,566		
1759	CAPTAIN JACK SUBSTATION		76,789		
1760	CARLTON SUBSTATION	B #10.//	14,581		
1761 1762	CASCADE STEEL SUBSTATION CELILO DC CONVERTER STATION	MWL	7,187 6,190,761		
1762	CHEHALIS RADIO STATION		2,057		
1764	CHEHALIS SUBSTATION		323,618		
1765	CHEMAWA SUBSTATION		65,891		
1766 1767	CHENOWETH SUBSTATION		22,055		
1767 1768	CHIEF JOSEPH SUBSTATION COLUMBIA FALLS ALUMINUM COMPANY SUBSTATION	ON	44,233 19,459		
1769	COLUMBIA FALLS SUBSTATION - 230 KV YARD		167,581		
1770	COLUMBIA SUBSTATION		71,906		
1771	COLVILLE SUBSTATION	CDEC	11,883		
1772 1773	CONDON SUBSTATION CONDON WIND SUBSTATION(SEAWEST)	CBEC SEAWEST	29,512 283,503		
1774	CONKELLEY SUBSTATION	OE WEST	103,189		
1775	CONNELL SUBSTATION	BPA/FPUD	14,474		
1776	COSMOPOLIS SUBSTATION		69,807		
1777 1778	COVINGTON SUBSTATION COWLITZ SUBSTATIONBPA)		192,502 32,603		
1779	COYOTE SPRINGS SUBSTATION	PGE	22,177		
1780	CRESTON SUBSTATION(BPA)	BPA/IPL	69,343		
1781	CULDESAC RADIO STATION		533		
1782	CUSICK SUBSTATION		74,316		
1783 1784	CUSTER SUBSTATION DE MOSS SUBSTATION(BPA)		280,860 509,045		
1785	DEER PARK SUBSTATION	BPA/IPL/AVA			
1786	DITTMER BPA SYSTEM CONTROL CENTER		75,561,062		
1787	DRAIN SUBSTATION		22,237		
1788 1789	DRISCOLL SUBSTATION DRUMMOND SUBSTATION		46,177		
1789	DWORSHAK POWERHOUSE	BPA/FREC	230,117 130,599		
1791	DWORSHAK SUBSTATION		129,362		
1792	EAST OMAK SUBSTATION		164,065		

	A	B B	С	D	E
	Communication and Control Equipment ***	<u>ncillary Service Facilities.</u> Owner	Investment (\$)	O&M (\$)	Multi%
1793	EASTERN CONTROL CENTER	Owner	3,697	Odivi (v)	William 70
1794	EASTSIDE SYSTEM CONTROL CENTER(PSE)	PSE	8,768		
1795	ECHO LAKE SUBSTATION		64,433		
1796	EUGENE C. STARR COMPLEX		31,743		
1797 1798	EUGENE SUBSTATION FAIRMOUNT SUBSTATION		75,533 61,560		
1799	FAIRVIEW SUBSTATION(BPA)		204,101		
1800	FIDALGO SUBSTATION `		6,872		
1801	FLATHEAD SUBSTATION(BPA & FLATHEAD ELEC)	BPA/FEC	270,109		
1802	FOREST GROVE SUBSTATION	BPA/FORG	112,995		
1803 1804	FORT ROCK SUBSTATION (MIDSTATE ELECTRIC COOF	P) MSEC BPA/FPUD	27,484 219,430		
1805	FREEWATER SUBSTATION(BPA)	BPA/CMF	15,432		
1806	CARRISON SUBSTATION		1,874,531		
1807	GOSHEN SUBSTATION(UTAH POWER & LIGHT)	BPA/PAC-ID	231,030		
1808	GRAND COULEE 115 KV SWITCHY ARD		869,968		
1809	GRAND COULEE 230 KV SWITCHY ARD		709,551		
1810 1811	GRAND COULEE 500 KV SWITCHY ARD GRAND COULEE RADIO STATION		167,375 208,028		
	GRAND COULEE 230 KV SWITCHYARD GRAND COULEE 500 KV SWITCHYARD GRAND COULEE RADIO STATION GRAND COULEE SUBSTATION GRANDVIEW SUBSTATION GREEN PETER SUBSTATION GRIZZLY SUBSTATION HANFORD SUBSTATION HAPPY CAMP RADIO STATION(PG&E) HARNEY SUBSTATION(BPA)	GPUD	93,082		
1813	GRANDVIEW SUBSTATION	BPA/BREA	13,048		
1814	GREEN PETER SUBSTATION		17,205		
1815	GRIZZLY SUBSTATION		23,899		
1816 1817	HANFORD SUBSTATION HAPPY CAMP RADIO STATION(PG&E)	PG&E	915,989 44,805		
1818	HARNEY SUBSTATION(BPA)	FORE	142,960		
1819	HARVALUM SUBSTATION		87,669		
1820	HARVEY SUBSTATION		13,444		
1821	HATWAI SUBSTATION	ID ED	59,328		
1822	HAY CANYON SUBSTATION (IBERDOLA)	IBER	52,792		
1823 1824	HEYBURN SUBSTATION HILLTOP SUBSTATION	BPA/NVE	14,446 30,653		
1825	HOOD RIVER SUBSTATION	BI / (/IV E	4,519		
1826	HORN BUTTE SUBSTATION (INVENERGY WIND)	INVER	245,607		
1827	HORSE HEAVEN SUBSTATION		135,366		
1828	HOT SPRINGS SUBSTATION		172,041		
1829 1830	HUNGRY HORSE POWERHOUSE IONA BUTTE RADIO STATION		468,842 2,590		
1831	JOHN DAY SUBSTATION		781,170		
1832	JONES CANYON SUBSTATION		568,665		
1833	KALISPELL SUBSTATION(BPA)		21,140		
1834	KEELER SUBSTATION		64,713		
1835 1836	KENNEWICK RADIO STATION KITSAP SUBSTATION		3,749 112,892		
1837	LA GRANDE SUBSTATION		69,987		
1838	LA PINE SUBSTATION		31,226		
1839	LANCASTER SUBSTATION(BPA)		181,691		
1840	LANE SUBSTATION		69,052		
1841 1842	LEBANON SUBSTATION LEXINGTON SUBSTATION		81,133 427,143		
1843	LIBBY SUBSTATION(BPA)		25,470		
1844	LITTLE GOOSE POWERHOUSE		26,862		
1845	LITTLE GOOSE SUBSTATION		860,162		
1846	LONGVIEW SUBSTATION		490,281		
1847	LOOKOUT POINT SUBSTATION		62,551		
1848 1849	LOPEZ ISLAND SUBSTATION(BPA) LOST RIVER SUBSTATION	BPA/LREC	6,079 9,581		
1850	LOWER GRANITE SUBSTATION	DI AVEILEO	423,146		
1851	LOWER MONUMENTAL SUBSTATION		799,028		
1852	MACKS INN SUBSTATION	FREC	8,757		
1853	MALIN MAINTENANCE HEADQUARTERS	DDA /DA C	18,700		
1854 1855	MALIN SUBSTATION MAPLE VALLEY SUBSTATION	BPA/PAC	106,743 168,780		
1856	MARION SUBSTATION		50,889		
1857	MARTIN CREEK SUBSTATION		42,765		
1858	MAUPIN SUBSTATION		50,782		

	Α	B Ancillary Service Facilities	С	D	E
	Communication and Control Equipment ***	Owner	Investment (\$)	O&M (\$)	Multi %
1859	MCLOUGHLIN SUBSTATION	PGE	77,460		
1860 1861	MCMINNVILLE SUBSTATION MCNARY SUBSTATION	BPA/MWL	10,910 579,109		
1862	MIDWAY SUBSTATION(BPA)		105,155		
1863	MONMOUTH SUBSTATION		3,517		
1864 1865	MONROE SUBSTATION MOXEE SUBSTATION		210,532 36,140		
1866	MT. HEBO RADIO STATION		30,899		
1867	MUNRO BPA SYSTEM CONTROL CENTER		10,689,316		
1868 1869	MURRAY SUBSTATION NAPAVINE SUBSTATION		20,792 170,420		
1870	NASELLE SUBSTATION		188,956		
1871	NINE CANYON SUBSTATION (BENTON PUD)	BPUD	209,461		
1872 1873	NINE MILE SUBSTATION (FPLE) NORTH BONNEVILLE SUBSTATION	FPLE BPA/SKPUD	266,939 241,495		
1874	NOXON CONSTRUCTION SUBSTATION	AVA	982		
1875	OLYMPIA SUBSTATION		60,331		
1876 1877	OREGON CITY SUBSTATION OSTRANDER PASSIVE REPEATER SITE		15,282 1,213		
1878	OSTRANDER SUBSTATION		19,385		
1879	PALISADES POWERHOUSE		31,408		
1880 1881	PAUL SUBSTATION PEARL SUBSTATION		242,937 152,709		
1882	PLUM RADIO STATION		60,317		
1883	PONDEROSA SUBSTATION(BPA)		3,557		
1884 1885	PORT ANGELES SUBSTATION(BPA) RATTLESNAKE SUBSTATION(MPC)	NWE	307,221 93,655		
1886	RAVER SUBSTATION	1472	160,690		
1887	RAYMOND SUBSTATION		73,048		
1888 1889	RED MOUNTAIN SUBSTATION REDMOND SUBSTATION(BPA)		353,542 167,063		
1890	REEDSPORT SUBSTATION (BPA)		347,724		
1891	RICHLAND SUBSTATION		8,368		
1892 1893	ROCK CREEK SUBSTATION ROCKY REACH SWITCHYARD		167,443 10,008		
1894	ROGUE SUBSTATION		454,259		
1895	ROSS COMPLEX		7,471		
1896 1897	ROSS SUBSTATION ROUND VALLEY SUBSTATION		72,916 9,332		
1898	ROUNDUP SUBSTATION		103,350		
1899	SACAJAWEA SUBSTATION		11,318		
1900 1901	SAND CREEK SUBSTATION SAND DUNES SUBSTATION	GPUD	10,972 7,208		
1902	SANDPOINT SUBSTATION(BPA)	GI 65	14,513		
1903	SANTIAM SUBSTATION		52,080		
1904 1905	SAPPHO SUBSTATION SATSOP PARK SUBSTATION (GHPUD)	GHPUD	4,868 10,920		
1906	SATSOP SUBSTATION(BPA)	3.1.35	108,841		
1907	SCHULTZ SUBSTATION	DOE.	137,683		
1908 1909	SEDRO WOOLLEY SUBSTATION SHANO SUBSTATION	PSE BBEC	25,481 4,255		
1910	SHELTON SUBSTATION	BBEO	61,607		
1911	SICKLER SUBSTATION		181,871		
1912 1913	SIFTON SUBSTATION SILVER CREEK SUBSTATION		94,714 235,115		
1914	SKYROCKET RADIO STATION		8,902		
1915	SLATT SUBSTATION		1,299,283		
1916 1917	SNOHOMISH SUBSTATION SNO-KING SUBSTATION		748,606 130,140		
1918	SOUTH TACOMA SUBSTATION		213,815		
1919	SPAR CANYON SUBSTATION	SREC	8,749		
1920 1921	SPRING CREEK SUBSTATION ST. JOHNS SUBSTATION		34,581 34,628		
1922	STEILACOOM SUBSTATION		2,911		
1923	SUMMER LAKE SUBSTATION		35,875		
1924	SWAN VALLEY RADIO STATION		8,904		

	Α	В	С	D	E
	Ancillary Service Fac	<u>ilities</u>			
	Communication and Control Equipment ***	Owner	Investment (\$)	O&M (\$)	Multi%
1925	SWAN VALLEY SUBSTATION		129,263		
1926	SYSTEM WIDE		819,368		
1927	TACOMA RADIO STATION		15,376		
1928	TACOMA SUBSTATION		83,008		
1929	TAFT SUBSTATION		982		
1930	TAHKENITCH SUBSTATION		139,952		
1931	TARGHEE SUBSTATION	BPA/FREC	12,526		
1932	TEAKEAN BUTTE RADIO STATION		66,706		
1933	TETON SUBSTATION		364,191		
1934	THE DALLES SUBSTATION	BPA/NWPUD/WEC	102,870		
1935	TILLAMOOK SUBSTATION		25,845		
1936	TINCUP SUBSTATION	LVE	147,498		
1937	TOLEDO SUBSTATION		299,940		
1938	TRENTWOOD SUBSTATION		3,184		
1939	TROUTDALE SUBSTATION(BPA)		84,837		
1940	TUCANNON RIVER SUBSTATION		209,349		
1941	UNITY SUBSTATION(BPA)	BPA/UEC	8,457		
1942	USK SUBSTATION(BPA)		308,498		
1943	VALHALLA SUBSTATION	BPA/CHPD	728,708		
1944	VANSYCLE RIDGE WIND GENERATION FACILITY		68,676		
1945	VANTAGE SUBSTATION		648,063		
1946	WALLA WALLA SUBSTATION(BPA)		345,896		
1947	WARNER SUBSTATION		22,126		
1948	WAUTOMA SUBSTATION		610,929		
1949	WENDSON SUBSTATION		303,201		
1950	WEYERHAEUSER INDUSTRIAL WAY WEYCO NO 1 SUBSTATION (COWLITZ		8,630		
1951	WHITE BLUFFS SUBSTATION		180,060		
1952	WHITE CREEK SUBSTATION (KPUD)	KPUD	436,404		
1953	WILLIS SUBSTATION (KPUD)	KPUD	353,448		
1954	WINE COUNTRY SUBSTATION	BPA/PAC	162,189		
1955	Total Ancillary Service		167,464,306		

^{***} FERC Account 353(1) Control, 391(2) Hardware, 391(3) Software, and 397(104,108) SCADA Communications

С Α В D Ε **General Plant Facilities General Plant** Owner Investment (\$) O&M (\$) Multi % 1956 ABERDEEN SUBSTATION 51,922 42,118 1957 ADDY SUBSTATION ADEL RADIO STATION 1,153,729 1958 1959 ALBANY SUBSTATION 212,996 1960 ALBANY-EUGENE NO 1 417,035 1961 ALBENI FALLS RADIO STATION (USCE) USCE 167,336 1962 ALBENI FALLS SUBSTATION 3,992 855,859 1963 ALBION BUTTE RADIO STATION 1964 ALCOA SUBSTATION 92.061 ALDER METERING POINT 1965 9,317 ALFALFA SUBSTATION 109,518 1966 1967 ALLSTON SUBSTATION 1,398,499 1968 ALVEY MAINTENANCE HEADQUARTERS 844,250 ALVEY SUBSTATION 1969 4,696,948 1970 ANACONDA SUBSTATION 198,847 APPLEGATE BUTTE RADIO STATION 1971 1,813,502 ARTONDALE SUBSTATION 1972 38,647 ASHE MAINTENANCE HEADQUARTERS 2,409,638 1973 ASHE SUBSTATION 3,339,075 1974 1975 ASHTON HILL RADIO STATION 155,791 1976 AUGSPURGER MOUNTAIN RADIO STATION 320,586 BADGER CANYON SUBSTATION 1977 1,107,913 1978 BAKEOVEN COMPENSATION STATION 20,113 1979 BALD MOUNTAIN RADIO STATION 1,373,383 1980 BALD PEAK RADIO STATION 85,094 BANDON SUBSTATION 1981 719,357 1982 BEAVER SUBSTATION (PGE) **PGE** 85,273 1983 BELL MAINTENANCE HEADQUARTERS 6,887,522 1984 BELL SUBSTATION 3,849,020 1985 BELLINGHAM SUBSTATION(BPA) 999,731 1986 BELLINGHAM-CUSTER FIBER SYSTEM 3,760,858 3,981,955 1987 BELL-NOXON FIBER SYSTEM 1988 BENNETT MOUNTAIN RADIO STATION 89,534 BENTON SUBSTATION 1989 48,848 1990 BENTON-FRANKLIN NO 1 15,180 BETTAS ROAD SUBSTATION 482,404 1991 1992 BEVERLY RADIO STATION 75,088 1993 BIDDLE BUTTE RADIO STATION 24,562 1994 BIG EDDY 500 KV SWITCHYARD 302,747 BIG EDDY SUBSTATION
BIG EDDY-TROUTDALE NO 1 1995 3,317,227 1996 63,155 BIRCH CREEK RADIO STATION 1997 29,191 BLACK MOUNTAIN RADIO STATION 1998 142,573 BLACKTAIL PEAK RADIO STATION 1999 576,376 BLUE RIDGE RADIO STATION 2000 441,312 **BOARDMAN SUBSTATION** 418,466 2001 BOARDMAN-TOWER ROAD NO 1 2002 (5,942)BOISTFORT PEAK RADIO STATION(WEYERHOUSER) 2003 55,063 BONNERS FERRY SUBSTATION 2004 53,864 2005 BONNEVILLE POWERHOUSE #1 3,513 **BOUNDARY SUBSTATION** 2006 937,566 BPA HEADQUARTERS BUILDING 2007 94,536 2008 BPA SYSTEM 35,176,406 2009 **BPA SYSTEM-LINES** 144,773 2010 BPA SYSTEM-MICROWAVE &RADIO STATIONS 474,287 BPA SYSTEM-NON ELECTRIC PLANT& MISC 81,865,374 2011 BRADFORD ISLAND RADIO STATION 2012 58,502 BRASADA SUBSTATION (CENTRAL ELECTRIC COOPERATIVE) 2013 CEC 456.814 2014 BRIDGE SUBSTATION 271,662 **BROADVIEW SUBSTATION** 2015 36,126 BROOKDALE SUBSTATION(ELMHURSTMUTUAL PWR & LIGHT) 2016 ELM 44,058 BUCK BUTTE RADIO STATION 1.598.343 2017 1,268,804 **BUCKLEY SUBSTATION** 2018 2019 BURLEY MAINTENANCE HEADQUARTERS 57,779

132,271

BURNS RADIO STATION

2020

С Α В D Ε **General Plant Facilities General Plant** Owner Investment (\$) O&M (\$) Multi % 2021 CABBAGE HILL RADIO STATION 84,401 420,965 2022 CALPINE SUBSTATION 902.315 2023 CAPE BLANCO RADIO STATION (BPA) 2024 CAPITOL PEAK RADIO STATION(BPA) 583,519 2025 CAPTAIN JACK SUBSTATION 1,935,832 2026 CARDWELL SUBSTATION 213,502 2027 CARLTON SUBSTATION 396,407 2028 CARLTON-SHERWOOD NO 1 556 2029 CASCADE STEEL SUBSTATION 28.301 17,960 2030 CATHLAMET SUBSTATION CELILO DC CONVERTER STATION 5,494,868 2031 CELILO MAINTENANCE HEADQUARTERS 2032 21,287 31,477 2033 CENTRALIA SUBSTATION CHEHALIS MAINTENANCE HEADQUARTERS 2034 79,987 2035 CHEHALIS RADIO STATION 128,615 2036 CHEHALIS SUBSTATION 1,413,991 CHEMAWA MAINTENANCE HEADQUARTERS 2037 93,505 CHEMAWA SUBSTATION 6,939,559 2038 2039 CHENOWETH SUBSTATION 252,909 2040 CHIEF JOSEPH POWERHOUSE 508,107 2041 CHIEF JOSEPH SUBSTATION 2,288,689 CLATSOP SUBSTATION 2042 10,265 CLINTON SUBSTATION (SOLD) 2043 MEC 1,193 2044 COBURG RADIO STATION 225,732 2045 COBURG SUBSTATION 140,618 COLSTRIP SES 2046 41,676 COLSTRIP SUBSTATION 2047 165,332 COLUMBIA FALLS SUBSTATION -- 115 YARD COLUMBIA FALLS SUBSTATION - 230 KV YARD 2048 406,902 2049 963,013 COLUMBIA FALLS-KALISPELL NO 1 2050 31,810 2051 COLUMBIA GENERATING STATION SUBSTATION (ENERGY NORTHWEST) 1,864,102 2052 COLUMBIA GENERATING STATION-ASHE FIBER SYSTEM 126,744 COLUMBIA SUBSTATION 2053 1,406,071 **COLVILLE SUBSTATION** 2054 185,792 2055 CONDON WIND SUBSTATION(SEAWEST) 17,366 2056 CONKELLEY SUBSTATION COSMOPOLIS SUBSTATION 1,404,185 2057 4,164 2058 COVINGTON MAINTENANCE HEADQUARTERS 785,206 2059 COVINGTON SUBSTATION 3,735,350 COVINGTON-BELL FIBER SYSTEM COVINGTON-BETTAS ROAD NO 1 2060 18,377,621 2061 402,607 COVINGTON-MAPLE VALLEY FIBER SYSTEM 2062 2,941,491 COVINGTON-MUNRO FIBER SYSTEM(INACTIVE SEE NOTES) 2063 1,383,291 COWLITZ SUBSTATIONBPA) 21,809 2064 COYOTE HILLS RADIO STATION 2065 1,373,033 COYOTE SPRINGS SUBSTATION 449,012 2066 CRESTON SUBSTATION(BPA) 2067 337,151 CULDESAC RADIO STATION 2068 12,970 CUSICK SUBSTATION 2069 86,245 CUSTER MAINTENANCE HEADQUARTERS 2070 724,085 CUSTER SUBSTATION 2,296,007 2071 CUSTER-INGLEDOW NO 1 190,843 2072 2073 DAVENPORT RADIO STATION 85,991 2074 DE MOSS SUBSTATION(BPA) 343.420 2075 DECATUR SUBSTATION 134,517 DEL RIO RADIO STATION 2076 220,873 2077 DEVILS MOUNTAIN RADIO STATION 316,863 2078 DITTMER BPA SYSTEM CONTROL CENTER 29,660,222 2079 DIXONVILLE SUBSTATION 164,947 DOUGLAS SWITCHYARD 68,042 2080 2081 DRAIN SUBSTATION 21,211 DRISCOLL SUBSTATION 2082 411.453 2083 DRISCOLL-NASELLE NO 1 274,886 2084 DRUMMOND SUBSTATION 130,515

31,350

DWORSHAK POWERHOUSE

2085

A B C D E

	General Plant Fa General Plant DWORSHAK SUBSTATION EAST OMAK SUBSTATION EASTERN CONTROL CENTER EASTON RADIO STATION EASTSIDE SYSTEM CONTROL CENTER(PSE) ECHO LAKE SUBSTATION ECHOLAKE MONIDOE SNOULOMISH EIRER SYSTEM	cilities			
	General Plant	Owner	Investment (\$)	O&M (\$)	Multi%
2086	DWORSHAK SUBSTATION		466,409		
2087	EAST OMAK SUBSTATION		34,781		
2088 2089	EASTERN CONTROL CENTER EASTON DADIO STATION		1,078,743 310,876		
2009	EASTON RADIO STATION EASTSIDE SYSTEM CONTROL CENTER/PSE)	PSE	14,423		
2090	EASTERN CONTROL CENTER EASTON RADIO STATION EASTSIDE SYSTEM CONTROL CENTER(PSE) ECHO LAKE SUBSTATION ECHO LAKE-MONROE-SNOHOMISH FIBER SYSTEM ELLENSBURG SUBSTATION ELLENSBURG-MOXEE NO 1 ELLIS MOUNTAIN RADIO STATION ELLIS RADIO STATION EUGENE C. STARR COMPLEX EUGENE SUBSTATION EUGENE SUBSTATION EUGENE-ALDERWOOD NO 1 FAIRVIEW SUBSTATION(BPA) FIDALGO SUBSTATION FIDALGO SUBSTATION FIDALGO SUBSTATION(BPA & FLATHEAD ELEC) FOLSOM CONTROL CENTER (CALISO) FOREST GROVE SUBSTATION FOREST GROVE-MCMINNVILLE NO 1 FOREST GROVE-TILLAMOOK NO 1 FORT ROCK COMPENSATION STATION FORT ROCK COMPENSATION (MIDSTATE ELECTRIC COOP) FOSTER CREEK RADIO STATION FRANKLIN MAINTENANCE HEADQUARTERS FRANKLIN SUBSTATION FRANKLIN MAINTENANCE HEADQUARTERS FRANKLIN SUBSTATION FRANKLIN-MUNRO FIBER SYSTEM FRANZ HOLMES SUBSTATION FREDERICKSON GENERATING PLANT(FREDERICKSON POWER LP) FREDERICKSON GENERATION-SOUTH TACOMA FIBER SYSTEM FRENCHMAN SPRINGS SUBSTATION GARDINER RIDGE RADIO STATION(BPA)	TOL	1,420,119		
2092	ECHO LAKE-MONROE-SNOHOMISH FIBER SYSTEM		4,908,397		
2093	ELLENSBURG SUBSTATION		377,775		
2094	ELLENSBURG-MOXEE NO 1		254,038		
2095	ELLIS MOUNTAIN RADIO STATION		32,352		
2096	ELLIS RADIO STATION		556 3,497,144		
2097	ELIGENE SURSTATION		348,327		
2099	EUGENE-ALDERWOOD NO 1		417,035		
2100	FAIRVIEW SUBSTATION(BPA)		786,326		
2101	FIDALGO SUBSTATION		434,263		
2102	FIDALGO-LOPEZ ISLAND NO 5		95,100		
2103	FLATHEAD SUBSTATION(BPA & FLATHEAD ELEC)	BPA/FEC	1,133,521		
2104	FOLSOM CONTROL CENTER (CALISO)	CAISO	3,416		
2105	FOREST GROVE MONININIVILLE NO 1		106,629 6,668		
2107	FOREST GROVE-TILLAMOOK NO 1		14,894		
2108	FORT ROCK COMPENSATION STATION		370,389		
2109	FORT ROCK SUBSTATION (MIDSTATE ELECTRIC COOP)	MSEC	3,351		
2110	FOSTER CREEK RADIO STATION		48,736		
2111	FOSTER SUBSTATION		16,933		
2112	FRANKLIN MAINTENANCE HEADQUARTERS		233,605		
2113	FRANKLIN SUBSTATION FRANKLINLMINIRO FIRER SYSTEM		1,335,471 16,440,087		
2115	FRANZ HOLMES SUBSTATION		2,341		
2116	FREDERICKSON GENERATING PLANT(FREDERICKSON POWER LP)	FRED PWR	119,537		
2117	FREDERICKSON GENERATION-SOUTH TACOMA FIBER SYSTEM		618,584		
2118	FREDERICKSON GENERATING PLANT(FREDERICKSON POWER LP) FREDERICKSON GENERATION-SOUTH TACOMA FIBER SYSTEM FRENCHMAN SPRINGS SUBSTATION GARDINER RIDGE RADIO STATION(BPA) GARDINER RIDGE RADIO STATION(CENTRAL LINCOLN PUD) GARRISON MAINTENANCE HEADQUARTERS GARRISON SUBSTATION GIG HARBOR SUBSTATION GOLDENDALE SUBSTATION(BPA) GOODWIN PEAK RADIO STATION GOSHEN SUBSTATION(UTAH POWER & LIGHT) GRAND COULEE 115 KV SWITCHYARD GRAND COULEE 230 KV SWITCHYARD GRAND COULEE 500 KV SWITCHYARD GRAND COULEE MAINTENANCE BUILDING GRAND COULEE PASSIVE REPEATERSITE		766		
2119	GARDINER RIDGE RADIO STATION(BPA)	OI FILID	23,654		
2120	GARDINER RIDGE RADIO STATION(CENTRAL LINCOLN PUD)	CLPUD	10,244		
2121	GARRISON SURSTATION		158,654 4,395,189		
2123	GIG HARBOR SUBSTATION		46,027		
2124	GOLDENDALE SUBSTATION(BPA)		11,710		
2125	GOODWIN PEAK RADIO STÀTION		390,889		
2126	GOSHEN SUBSTATION(UTAH POWER & LIGHT)	PAC-ID	38,803		
2127	GRAND COULEE 115 KV SWITCHY ARD		634,783		
2128	CRAND COULEE 115KV-GRAND COULEE RS FIBER SEG		249,005 319,123		
2130	GRAND COULE 500 KV SWITCHY ARD		1,217,762		
2131	GRAND COULEE MAINTENANCE BUILDING		629,567		
2132	GRAND COULEE PASSIVE REPEATERSITE		556		
2133	GRAND COULEE RADIO STATION		386,369		
2134	GRAND COULEE SUBSTATION		113,077		
2135	GRAND COULEE THIRD POWERHOUSE		152,907		
2136 2137	GRAND COULEE-BELL NO 5 GRANDVIEW SUBSTATION		22,276 38,617		
2138	GRANITE MOUNTAIN RADIO STATION		913,001		
2139	GRASSY MOUNTAIN RADIO STATION		556		
2140	GRAZZINI SUBSTATION		69,978		
2141	GREEN MOUNTAIN PASSIVE REPEATER SITE		18,681		
2142	GREENBERRY SUBSTATION		645		
2143	GRIZZLY MOUNTAIN RADIO STATION		90,226		
2144 2145	GRIZZLY SUBSTATION GROUSE PEAK RADIO STATION		879,434 375,503		
2145	HAAKENSON SUBSTATION		24,891		
2147	HALL RIDGE RADIO STATION		409,676		
2148	HAMPTON BUTTE RADIO STATION		343,430		
2149	HANFORD SUBSTATION		753,297		
2150	HANFORD-WAUTOMA NO 1		1,770		

В

С

D

Ε

Α

2151	HAPPY CAMP RADIO STATION(PG&E) HAPPY CAMP RADIO STATION(TANC) HAPPY CAMP RADIO STATION(TANC) HAPPY VALLEY SUBSTATION HAPPY YALLEY SUBSTATION HARNEY SUBSTATION(BPA) HARVALUM SUBSTATION HARVALUM SUBSTATION HAVELY SUBSTATION HAT ROCK SUBSTATION HAT ROCK SUBSTATION HAUSER SUBSTATION(BPA) HAUSER-NORTH BEND MAINTENANCE HQ FIBER SYSTEM HAYDEN SUBSTATION HAUSER-NORTH BEND MAINTENANCE HQ FIBER SYSTEM HAYDEN SUBSTATION HAYDEN SUBSTATION HOLCOMB SUBSTATION HOLCOMB RADIO STATION HOLCOMB SUBSTATION HOOD RIVER SUBSTATION HOOD RIVER THE DALLES NO 1 HORN BUTTE TAP TO TOWER ROAD-ALKALINO 1 HORSE HEAVEN SUBSTATION HOT SPRINGS SUBSTATION HOT SPRINGS SUBSTATION HOT SPRINGS FOWERHOUSE HUNGRY HORSE POWERHOUSE HUNGRY HORSE RADIO STATION ICE HARBOR POWERHOUSE DAHO FALLS DISTRICT OFFICE AND MAINTENANCE HEADQUARTERS IDAHO FALLS DISTRICT OFFICE AND MAINTENANCE HEADQUARTERS IDAHO FALLS SUBSTATION INTALCO SUBSTATION INDIAN MOUNTAIN RADIO STATION INTALCO SUBSTATION JOHN DAY SUBSTATION KAHLOTUS RADIO STATION KEELER MAINTENANCE HEADQUARTERS KALISPELL SUBSTATION KEELER SUBSTATION KEELER-COVINGTON FIBER SYSTEM KEELER SUBSTATION KEELER-COVINGTON FIBER SYSTEM KEELER SUBSTATION KEELER-COVINGTON FIBER SYSTEM KENEPVICK SADIO STATION KINSAP SUBSTATION	PG&E	485,754	(+)	
2152	HAPPY CAMP RADIO STATION(TANC)	TANC	52,708		
2153	HAPPY VALLEY SUBSTATION		1,657		
2154	HARNEY SUBSTATION(BPA)		270,352		
2155	HARVALUM SUBSTATION '		487,931		
2156	HARVEY SUBSTATION		142,362		
2157	HAT ROCK SUBSTATION		85,428		
2158	HATWAI SUBSTATION		1,330,644		
2159	HAUSER SUBSTATION(BPA)		9,889		
2160	HAUSER-NORTH BEND MAINTENANCE HQ FIBER SYSTEM		52,648		
2161	HAYDEN SUBSTATION		4,128		
2162	HAYSTACK BUTTE RADIO STATION		86,253		
2163	HEYBURN SUBSTATION		26,048		
2164	HILLTOP SUBSTATION		27,330		
2165	HOLCOMB RADIO STATION		270,971		
2166	HOLCOMB SUBSTATION		16,087		
2167	HOOD RIVER SUBSTATION		143,515		
2168	HOOD RIVER-THE DALLES NO 1		95,770		
2169	HORN BUTTE TAP TO TOWER ROAD-ALKALINO 1		7,512		
2170	HORSE HEAVEN SUBSTATION		11,423		
2171	HOT SPRINGS SUBSTATION		2,127,050		
2172	HOT SPRINGS-GARRISON FIBER SYSTEM		9,027,301		
2173	HUNGRY HORSE POWERHOUSE		543,650		
2174	HUNGRY HORSE RADIO STATION		653,256		
2175	ICE HARBOR POWERHOUSE		252,790		
2176	IDAHO FALLS DISTRICT OFFICE AND MAINTENANCE HEADQUARTERS		4,447,679		
2177	IDAHO FALLS STORAGE YARD		380,162		
2178	INDIAN MOUNTAIN RADIO STATION		51,774		
2179	INTALCO SUBSTATION		868,855		
2180	IONA BUTTE RADIO STATION		747		
2181	JOHN CURTIS SUBSTATION		68,395		
2182	JOHN DAY POWERHOUSE		270,063		
2183	JOHN DAY SUBSTATION		2,125,857		
2184	JOHN DAY SUBSTATION - 230 YARD		971,128		
2185	JONES CANYON SUBSTATION		2,467,180		
2186	KAHLOTUS RADIO STATION		116,277		
2187	KALISPELL MAINTENANCE HEADQUARTERS		7,012,388		
2188	KALISPELL SUBSTATION(BPA)		1,916,867		
2189	KEELER MAINTENANCE HEADQUARTERS		521,342		
2190	KEELER SUBSTATION		1,794,542		
2191	KEELER-ALVEY FIBER SYSTEM		8,601,493		
2192	KEELER-COVINGTON FIBER SYSTEM		17,816,936		
2193	KEELER-FOREST GROVE NO 1		3,269		
2194	KENNEDY SUBSTATION		3,017		
2195	KENNEWICK RADIO STATION		1,515,118		
2196	KENNEWICK SUBSTATION(BENTON CO PUD)	BPUD	7,152		
2197	KENYON MOUNTAIN RADIO STATION		309,028		
2198	KITSAP SUBSTATION		1,074,446		
2199	(IBER	,		
2200	LA GRANDE SUBSTATION		164,303		
2201	LA PINE SUBSTATION		969,060		
2202	LAKE BAY SUBSTATION		119,816		
2203	LAKE GROVE SUBSTATION		56,584		
2204	LAKESIDE RADIO STATION		34,188		
2205	LANCASTER SUBSTATION(BPA)		421,234		
2206	LANE SUBSTATION		842,434		
2207	LEBANON SUBSTATION		6,013		
2208	LENEVE RADIO STATION		94,478		
2209	LEWISTON MAINTENANCE HEADQUARTERS		24,455		
2210	LEXINGTON SUBSTATION		351,036		
2211	LIBBY POWERHOUSE		438,990		
2212		DDA /EEO	1,649,294		
2213	LIBBY SUBSTATION(BPA/FLATHEADELEC)	BPA/FEC	434,298		
2214	LINES CREEK RADIO STATION		707,598		
2215	LITTLE GOOSE PH-LITTLE GOOSE NO 1		(1,777)		

A B C D E

		General Plant Facilities			
	General Plant	Owner	Investment (\$)	O&M (\$)	Multi%
2216	LITTLE GOOSE POWERHOUSE		600,318	(1)	
2217	LITTLE GOOSE SUBSTATION		3,263,875		
2218	LODHOLM SUBSTATION		132,402		
2219	LONGVIEW ANNEX I		2,885		
2220	LONGVIEW MAINTENANCE HEADQUARTERS		267,444		
2221	LONGVIEW SUBSTATION		2,140,951		
2222 2223	LOOKOUT MOUNTAIN RADIO STATION LOOKOUT POINT SUBSTATION		214,429 17,902		
2223	LOPEZ ISLAND SUBSTATION(BPA)		496,029		
2225	LOST RIVER SUBSTATION		173,126		
2226	LOWELL BUTTE RADIO STATION		1,855,300		
2227	LOWER GRANITE POWERHOUSE		329.857		
2228	LOWER GRANITE SUBSTATION		4,139,274		
2229	LOWER MONUMENTAL POWERHOUSE		258,795		
2230	LOWER MONUMENTAL SUBSTATION		1,643,694		
2231	LOWER MONUMENTAL-HANFORD NO 1		53,475		
2232	LOWER MONUMENTAL-MCNARY NO 1		7,729		
2233	LYN PUMPS PUMPING PLANT		4,267		
2234	LYNCH CREEK SUBSTATION		121,887		
2235	MACKS INN SUBSTATION		13,198		
2236 2237	MALAGA RADIO STATION MALIN MAINTENANCE HEADQUARTERS		253,068		
2238	MALIN PASSIVE REPEATER S SITE		5,215,428 13,184		
2239	MALIN SUBSTATION		2,768,136		
2240	MALONEY RIDGE RADIO STATION		1,571		
2241	MAPLE VALLEY SUBSTATION		2,349,492		
2242	MAPLE VALLEY-SNOHOMISH FIBER SYSTEM		732,999		
2243	MAPLETON SUBSTATION		60,489		
2244	MARION SUBSTATION		2,073,002		
2245	MARION-SANTIAM FIBER SYSTEM		1,060,590		
2246	MARTIN CREEK SUBSTATION		57,943		
2247	MARYS PEAK RADIO STATION		246,203		
2248 2249	MAUPIN SUBSTATION		229,841 12,509		
2250	MAYFIELD POWERHOUSE MAYFIELD SWITCHYARD		57,344		
2251	MCCULLOUGH SUBSTATION		59,703		
2252	MCLOUGHLIN SUBSTATION		881,150		
2253	MCMINNVILLE SUBSTATION		235,988		
2254	MCNARY MAINTENANCE HEADQUARTERS		64,656		
2255	MCNARY POWERHOUSE		505,020		
2256	MCNARY SUBSTATION		4,338,801		
2257	MCNARY-COYOTE SPRINGS NO 1		1,519,037		
2258	MCNARY-HORSE HEAVEN NO 1		70,204		
2259	MCNARY-JOHN DAY NO 2		5,493,113		
2260 2261	MEAD SUBSTATION MEGLER RADIO STATION		4,712 556		
2262	MERIDIAN SUBSTATION(PACIFICORP)	PAC	215,029		
2263	MERRITT RADIO STATION	TAC	119,019		
2264	METALINE RADIO STATION		78,233		
2265	MICA PEAK RADIO STATION		765,517		
2266	MIDWAY SUBSTATION(BPA)		2,145,058		
2267	MIDWAY-MOXEE NO 1		33,830		
2268	MILES CITY SUBSTATION		78,146		
2269	MILLER PEAK RADIO STATION		825,116		
2270	MILLER SUBSTATION(LAKEVIEW LIGHT & PWR)	LLP	65,777		
2271	MINIDOKA POWERHOUSE	FIDED OVOTEM	67,168		
2272	MINIDOKA POWERHOUSE-MINIDOKA RADIO STATION	FIBER SYSTEM	171,931		
2273 2274	MINIDOKA RADIO STATION MINTER SUBSTATION (PENINSULA)	PLC	104,319 100,179		
2274	MOBILE COMMUNICATIONS	FLO	409,133		
2276	MONROE SUBSTATION		1,355,898		
2277	MOXEE SUBSTATION		91,052		
2278	MT SI-TANNER NO 1		2,223,299		
2279	MT. EMILY RADIO STATION		65,833		
2280	MT. HEBO RADIO STATION		9,063		

В

Α

С

D

Ε

General Plant Facilities General Plant Owner Investment (\$) O&M (\$) Multi % MT. SPOKANE RADIO STATION(AVISTA) MT. SPOKANE RADIO STATION(BPA) 2281 AVA 43,896 201,662 2282 MUNRO BPA SYSTEM CONTROL CENTER 13.058.705 2283 MURRAY SUBSTATION 2284 31,793 2285 NAPAVINE SUBSTATION 361.081 NARROWS SUBSTATION 2286 75,170 2287 NASELLE RIDGE RADIO STATION 262,736 2288 NASELLE SUBSTATION 188,012 2289 NASELLE-TARLETT NO 1 37,122 NEWPORT SUBSTATION(INLAND POWER) 2290 431 NINE CANYON SUBSTATION (BENTON PÚD) **BPUD** 63,776 2291 2,487,737 2292 NORTH BEND MAINTENANCE HEADQUARTERS 2293 NORTH BEND RADIO STATION 596.263 NORTH BONNEVILLE SUBSTATION 2294 444,071 2295 NORTH BONNEVILLE-MIDWAY NO 1 3,745 2296 NORTH BONNEVILLE-TROUTDALE NO2 281,830 NOTI RADIO STATION 2297 271,116 2298 NOXON CONSTRUCTION SUBSTATION 344,199 2299 NOXON RADIO STATION 1,689,098 2300 NOXON-KALISPELL FIBER SYSTEM 11,514,282 NOXON-LIBBY NO 1 NOXON-TAFT FIBER SYSTEM 2301 354,839 2302 5,718,682 2303 ODELL BUTTE RADIO STATION 970,199 2304 OHOP SUBSTATION 126,215 2305 OLNEY METERING POINT 2,706 OLYMPIA MAINTENANCE HEADQUARTERS 2306 6,562,207 2307 OLYMPIA SUBSTATION 1,785,858 OLYMPIA-ABERDEEN FIBER SYSTEM 2308 989,884 2309 OLYMPIA-GRAND COULEE NO 1 898,339 OLYMPIA-KITSAP NO 3 (SEE NOTES) 2310 66,850 2311 OLYMPIA-PORT ANGELÈS FIBER SYSTEM 6,850,457 OLYMPIA-ST CLAIR NO 1 OREGON CITY SUBSTATION 2312 1,318,835 2313 80,667 OSTRANDER PASSIVE REPEATER SITE 2314 66,182

2315 OSTRANDER SUBSTATION 6,415,860 PACIFIC GAS AND ELECTRIC OPERATIONS CENTER 4,109 2316 PALISADES POWERHOUSE 2317 14,556 2318 PASCO MAINTENANCE HEADQUARTERS 196,041 2319 PATRICKS KNOB RADIO STATION 701,903 2320 PAUL SUBSTATION 2,258,571 PBL ROSS EMERGENCY SCHEDULINGCENTER (ESC) 2321 57,571 2322 PEARL SUBSTATION 1,246,495 PEARL-TROUTDALE FIBER SYSTEM 2323 4,093,153 PENDLETON SUBSTATION PILOT BUTTE-LA PINE NO 1 2324 17,757 2325 124,765 2326 PINE MOUNTAIN RADIO STATION 192,493 POMEROY RADIO STATION POMEROY SUBSTATION(BPA) 2327 542,569 2328 5,395 PONDEROSA SUBSTATION(BPA) 2329 541,196 PORT ANGELES SUBSTATION(BPA) 2330 139,450 PORTLAND INTERNATIONAL ÀIRPÓRT HANGAR 2331 1,160,192 POTHOLES SUBSTATION PROSPECT HILL RADIO STATION 2332 33,878 2333 410,562 2334 PURDY SUBSTATION 46.473 2335 RAINIER RADIO STATION 685,741 RAINIER SUBSTATION 2336 3,384 RATTLESNAKE SUBSTATION(MPC) N///F 2337 81,320 2338 RAVER SUBSTATION 3.219.692 2339 RAVER-ECHO LAKE FIBER SYSTEM 7,294,724 RAYMOND HILL RADIO STATION 491,694 2340 2341 RAYMOND RADIO STATION 238,453 RAYMOND SUBSTATION 2342 21.198 RED MOUNTAIN SUB (BENTON REA)- NEVER BUILT-OBS **BREA** 2343 391,394 2344 RED MOUNTAIN SUBSTATION 462,774 REDMOND BPA HANGAR SITE 2345 1,348,223

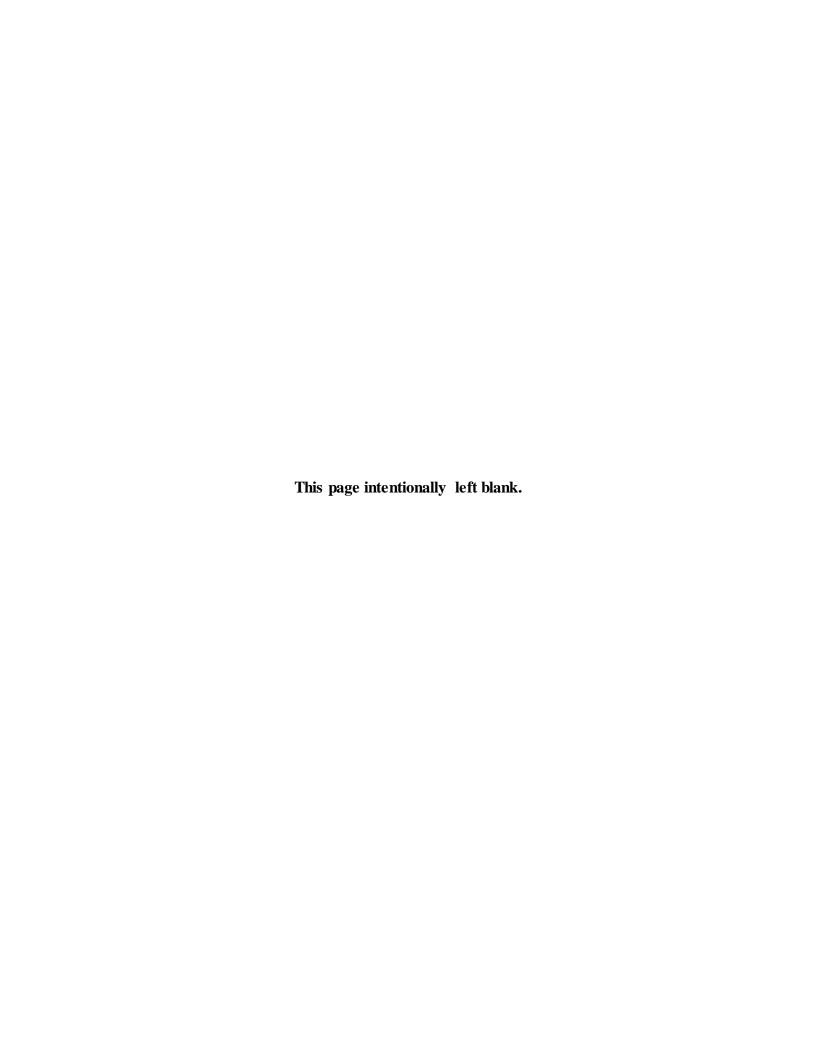
A B C D E

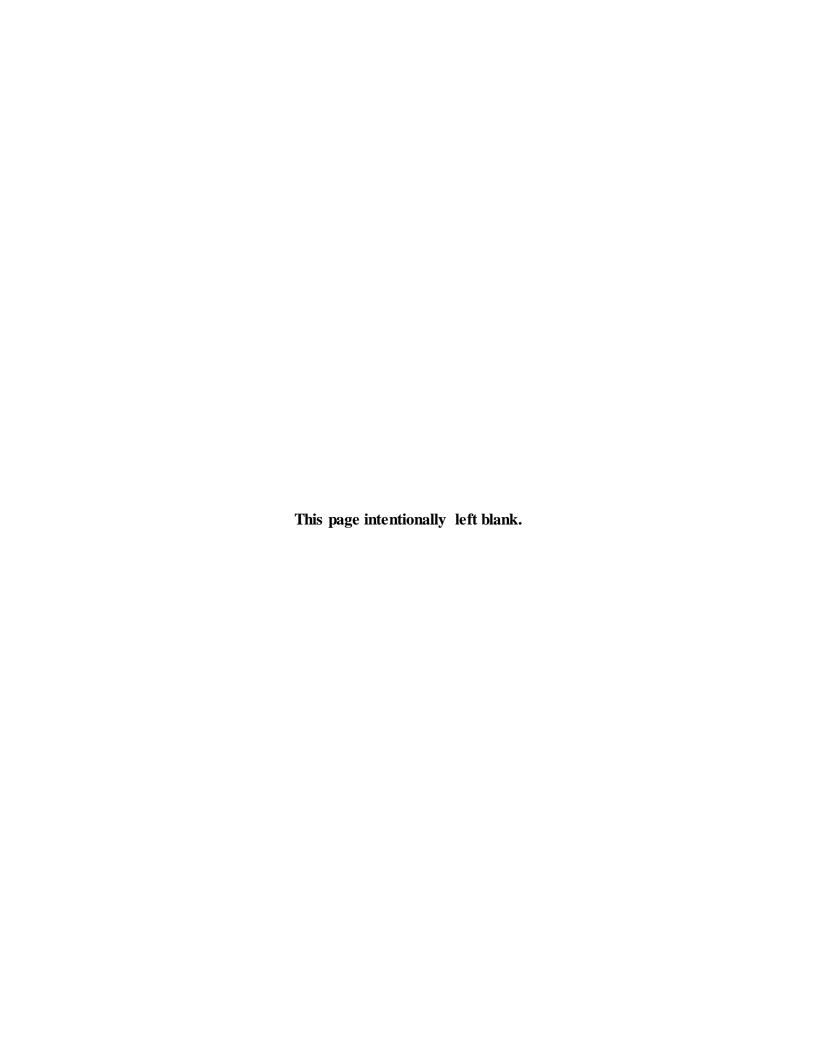
Central Plant			General Plant Facilities			
2243 REDMOND SUBSTATION (BPA) 1,408,665		General Plant		Investment (\$)	O&M (\$)	Multi %
2348 REEDSFORT SUBSTATION (EPA) 191,923 2489 REEDSFORT-FARKENITCH FIBER SYSTEM 193,800 2510 RESTOR SUBSTATION 153,668 2511 RESTOR SUBSTATION 153,668 2523 RESTOR SUBSTATION 003,743 2523 RESTOR SUBSTATION 003,743 2523 ROCK CREEK SUBSTATION 1,994 2525 ROCK READ STATION 31,091 2526 ROCKY RADO STATION [RE] 1,2681 2527 ROCKY READ SUBSTATION 5,566 2528 ROCKY READ SUBSTATION 85,702 2528 ROCKY READ STATION 91,082 2528 ROCKY READ STATION 941,683 2529 ROCKY READ STATION 941,083 2528 ROCKY READ STATION 941,083 2528 ROCKY READ STATION 941,083 2528 ROCKY READ STATION 9,342,666 2528 ROCKY READ STATION 9,342,666 2528 ROCKY READ STATION 9,342,666 2638 ROSS ROSE READ STATION 9,342,666 2639 ROSS COMPLEX 9,342,666 2630 ROSS COMPLEX 9,342,666 2630 ROSS COMPLEX 9,342,666 2630 ROSS COMPLEX READ STATION	2346	REDMOND MAINTENANCE HEADQUARTERS		***	(,,	
2349 REEDSFORT-FARWIEW NO 1 314,896 2561 REEDSONT-FARWIEW NO 1 153,468 2551 RESTON SUBSTATION 153,468 2562 ROBING STATON 93,469 2563 ROCK REER STATON 91,944 2564 ROCK CREEK-LOFN DAY NO 1 1,994 2565 ROCK CREEK-LOFN DAY NO 1 1,994 2566 ROCK PADO STATON [REI] 12,681 2567 ROCKY RADO STATON [REI] 12,681 2568 ROCKY RADO STATON [REI] 12,681 2578 ROCKY RADO STATON 85,702 2589 ROCKY REACH SWITCH ARD 85,702 2589 ROCKY REACH SWITCH ARD 85,702 2580 ROCKY REACH SWITCH ARD 94,883 26281 ROSS COMPLEX 94,046 2636 ROSS RAMPERE BUILDING 5,549,046 2636 ROSS RAMPERE BUILDING 5,549,046 2637 ROSS RAMPER BUILDING 9,348,266 2638 ROSS SADON STATON 93,482,666 2639 ROSS SADON STATON 93,482,666 2630 ROSS RADON STATON 93,482,666 2630 ROSS RADON STATON 93,482,666 2631 ROSS RADON STATON 93,883,666 2632 ROSS RADON STATON				· · ·		
2250 REEDSPORT-TAHKENITCH FIBER SYSTEM 193,800 2351 RESTON SUBSTATION 98,308 2352 RICHAND SUBSTATION 98,308 2353 ROCK CREES (LIGHT ON TOIL) 1,944 2354 ROCK CREES (LIGHT ON TOIL) 1,944 2358 ROCK CREES (LIGHT ON TOIL) 1,941 2357 ROCK PERLOHD STATION (RET) 2,661 2357 ROCKY REACH SUBSTATION 5,566 2358 ROCKY REACH SUBSTATION 94,1683 2369 ROCKY REACH SUBSTATION 94,1683 2360 ROCKY REACH SUBSTATION 1,042,283 2361 ROCKEPELT RADO STATION 240,239 2361 ROSS CONSTRUCTION AND SERVICES BUILDING 9,349,266 2362 ROSS CONSTRUCTION AND SERVICES BUILDING 9,349,266 2363 ROSS CONSTRUCTION AND SERVICES BUILDING 9,349,266 2366 ROSS READ ILABORATORY 603,409 2367 ROSS RADO STATION 1,35,567 2378 ROSS CONSTRUCTION AND SERVICES BUILDING 3,757,759 2379 ROSS BURLANDER				·		
2351 RESTON SUBSTATION 153,468 2528 ROCK CREEX SUBSTATION 603,743 2538 ROCK CREEX SUBSTATION 1,994 2538 ROCK CREEX JOHN DAY NO 1 1,994 2539 ROCK CREEX SUBSTATION 31,094 2539 ROCK PEACH SUBSTATION 20,000 2528 ROCKY PEACH SWITCHYARD 86,702 2528 ROCKY REACH SWITCHYARD 86,702 2529 ROCKY REACH SWITCHYARD 1042,893 2360 ROCKY REACH SWITCHYARD 1042,893 2361 ROSSEVELT RADIO STATION 20,239 2362 ROCKY REACH SWITCHYARD 5,640,046 240 ROSS AMPERE BUILDING 5,640,046 2424 ROSS AMPERE BUILDING 3,635,656 2365 ROSS HAY LABORATORY 200,983 2367 ROSS MAN INTERNACE HEADQUIARTERS 205,983 2368 ROSS SUBSTATION 43,336 2370 ROSS MAREHOUSE 3,757,739 2371 ROSS MAREHOUSE 3,757,739 2372 ROLING WAREH				•		
2525 RICHAMD SUBSTATION				•		
2233 ROCK CREEX, SUBSTATION 1,994 2354 ROCK CREEX, JOHN DAYN DO 1 1,994 2355 ROCK PRADIO STATION 31,091 2367 ROCKY RADIO STATION [ET] 12,681 2367 ROCKY REACH SUBSTATION 556 2368 ROCKY REACH SUBSTATION 941,683 2369 ROCKY REACH SUBSTATION 941,683 2369 ROCKY REACH SUBSTATION 941,683 2361 ROSS CREER REBUILDING 5,640,046 2362 ROSS AMPERE BUILDING 5,640,046 2363 ROSS COMPLEX 5,040,467 2364 ROSS COMPLEX 604,409 2366 ROSS AMPERE BUILDING 9,346,266 2367 ROSS REAL LABORATORY 603,409 2368 ROSS CONSTRUCTION AND SERVICES BUILDING 9,346,266 2367 ROSS RADIO STATION 43,336 2368 ROSS CONTRUCTION AND SERVICES BUILDING 9,346,266 2369 ROSS STATELLOW 4,336 2360 ROSS RADIO STATION 521,532 2367						
2234 ROCK CREEK-JOHN DAY NO 1 1,994 2356 ROCKOLALE RADO STATION [RET] 12,881 2367 ROCKY RADO STATION [RET] 12,881 2378 ROCKY REACH SWITCHTAND 85,768 2358 ROCKY REACH SWITCHTAND 85,768 2358 ROCKY REACH SWITCHTAND 85,768 2368 ROCKY REACH SWITCHTAND 86,703 240,239 140,248 240 ROCKE SUBSTATION 140,248 240 ROSC SUBSTATION 240,239 262 ROSS AMPERE BUILDING 54,984,966 2636 ROSS COMPILEY 603,409 2640 ROSC SONSTRUCTION AND SERVICES BUILDING 9,345,266 2656 ROSS HAV LAGORATORY 603,409 2657 ROSS RADIO STATION 43,332 2667 ROSS MAINTENANCE HEADQUARTERS 20,593 2670 ROSS WARREHOUSE 3,533 2670 ROSS WARREHOUSE 3,573,739 2671 ROSS-RAINT FIBER SYSTEM 20,24,601 2672 ROSS MARIEN FIBER SYSTEM 20,493,447 2673 SACALANDER SYSTEM 20,193,947 2772 SACALANDER SUBSTATION 133,669 2773 SACHER SUBSTATION STATION 9,311 2873 SACH						
2355 ROCKP ARDO STATION 31,091				•		
2256 ROCK PRADD STATTON [RET] 12,881 2578 ROCKY PRAD STATION 556 556 5578 ROCKY PRAD STATION 941,683 556 558						
2367 ROCKY REACH SURSTATION						
2359 ROCKY RIDGE RADIO STATION 941,683 2361 ROOSEVIELT RADIO STATION 240,239 2362 ROSS AMFERE BULDING 5,549,046 2363 ROSS COMPLEX 5,490,46 2363 ROSS COMPLEX 5,490,46 2364 ROSS COMPLEX 5,490,46 2365 ROSS COMPLEX 603,409 2366 ROSS COMPLEX 603,409 2367 ROSS COMPLEX 603,409 2368 ROSS RANIFORNAICS 603,409 2369 ROSS BAY LABORATIORY 603,409 2360 ROSS MANIFORNAICS 603,409 2360 ROSS MANIFORNAICS 603,409 2361 ROSS RADISTATION 613,322 2362 ROSS RADISTATION 613,322 2373 ROSS FRANKLIN FIBER SYSTEM 62,424,601 2374 ROSS-FRANKLIN FIBER SYSTEM 62,424,601 2375 ROSS-FRANKLIN FIBER SYSTEM 62,193,947 2376 ROSS MANIFORNAICS 63,432 2377 ROLLANDUP SUBSTATION 712,737 2376 ROLLANDUP SUBSTATION 712,737 2376 SACHEEN SUBSTATION 72,737 2376 SACHEEN SUBSTATION 72,737 2377 SACHEEN SUBSTATION 72,737 2378 SACHEEN SUBSTATION 72,737 2379 SAND DUNES SUBSTATION 72,831 2379 SAND DUNES SUBSTATION 72,831 2380 SAND SPRING COMPENSATION 93,311 2381 SANDFOINT SUBSTATION 93,311 2382 SANTRIAM SUBSTATION 93,311 2383 SANDFOINT SUBSTATION 93,311 2384 SANDRAIPEREL NORPHA 2385 SANTRIAM SUBSTATION 1,900,125 2386 SANTRIAM SUBSTATION 1,207,423 2387 SALUE LERADIO STATION 1,237,435 2388 SCHLITZ MAINTENANCE HEADQUARTERS 1,666,445 2398 SCHLITZ MAINTENANCE HEADQUARTERS 1,666,445 2399 SCHLITZ MAINTENANCE HEADQUARTERS 1,668,891 2391 SANDRAIR ROOS STATION 1,190,716 2392 SANTRIAM SUBSTATION 1,190,716 2393 SANTRIAM SUBSTATION 1,190,716 2394 SHELT ROOS STATION 1,190,716 2395 SCHLITZ MAINTENANCE HEADQUARTERS 1,168,891 2396 SCHLITZ MAINTENANCE HEADQUARTERS 1,168,891 2397 SANDRAIPENANCE HEADQUARTERS 1,168,891 2398 SCHLITZ MAINTENANCE HEADQUARTERS 1,168,891 2399 SICKLER SCHLITZ NO 1 1 1,100,774 2400 SICKLER SCHLITZ NO 1 1 1,100,774 2401 SICKLER SCHLITZ NO 1 1 1,100,774 2402 SICKLER SCHLITZ NO		ROCKY REACH SUBSTATION		556		
2361 ROSEVELT RADIO STATION 240,239 2362 ROSS AMFERE BUILDING 2363 ROSS COMPLEX ROSS COMPLEX 2364 ROSS COMPLEX 2365 ROSS COMPLEX 2366 ROSS COMPLEX 2366 ROSS COMPLEX 2366 ROSS MAINTENANCE HEADQUARTERS 236 ROSS RADIO STATION 2366 ROSS MAINTENANCE HEADQUARTERS 2367 ROSS RADIO STATION 2368 ROSS SUBSTATION 2378 ROSS SUBSTATION 2379 ROSS SUBSTATION 2370 ROSS WAREHOUSE 2370 ROSS WAREHOUSE 2371 ROSS FRANKLIN FIBER SYSTEM 2372 ROSS FRANKLIN FIBER SYSTEM 2373 ROSS FRANKLIN FIBER SYSTEM 2374 ROSS MAINTENANCE HEADQUARTERS 2375 ROSS FRANKLIN FIBER SYSTEM 2476 ROSS WAREHOUSE 2377 ROSS FRANKLIN FIBER SYSTEM 2577 ROSS MAINTENANCE HEADQUARTERS 2378 ROSS MAINTENANCE HEADQUARTERS 2379 ROSS MAINTENANCE HEAD STATION 2476 ROSS WAREHOUSE 2477 ROSS MAINTENANCE HEAD STATION 2577 ROSS MAINTENANCE HEAD STATION 2578 ROSS MAINTENANCE HEAD STATION 2579 ROSS MAINTENANCE HEAD STATION 2580 SANDLIN FIBER SYSTEM 2580 SANDLIN SUBSTATION 2580 SANTIAL FIBER SYSTEM 2580 SANDLIN SUBSTATION 2580 SANTIAL FIBER SYSTEM 2580 SANDLIN SUBSTATION STATION 2580 SANTIAL FIBER SYSTEM 2580 SANDLIN SUBSTATION STATION 2580 SANTIAL SUBSTATION STATION 2580 SANTIAL FIBER SYSTEM 2580 SANDLIN SUBSTATION STATION 2580 SANTIAL FIBER SYSTEM 2580 SANTIAL FIBER SYSTEM 2580 SANTIAL FIBER SYSTEM 2580 SANTIAL FIBER SYSTEM 2580 SANTIAL SUBSTATION STATION 2680 SANTIAL FIBER SYSTEM 2580 SANTIAL SYSTEM 2580 SANTIAL FIBER SYSTEM 2580 SANTIAL FIBER SYSTEM 2580 SANTIAL FIBER SYSTEM 2580 SANTIAL FIBER SYSTEM 2580 SANTIAL FIBE						
2361 ROSEVILIT RADIO STATION 240,239 2362 ROSS COMFIEX 54,084,571 2363 ROSS COMFIEX 54,084,571 2364 ROSS COMISTRUCTION AND SERVICES BUILDING 9,348,266 2365 ROSS EMY LABORATORY 603,409 2366 ROSS MAINTENANCE HEADQUARTERS 205,983 2367 ROSS RADIO STATION 43,336 2368 ROSS SUBSTATION 43,336 2370 ROSS WAREHOUSE 5,737,739 2371 ROSS-FRANKLIN FIBER SYSTEM 20,824,601 2372 ROSS-MALIN FIBER SYSTEM 20,824,601 2373 ROSS-MALIN FIBER SYSTEM 20,824,601 2373 ROLDUP SUBSTATION 133,669 2374 ROLDUP SUBSTATION 130,669 2375 SACALAWER SUBSTATION 712,737 2376 SACHEN SUBSTATION 712,737 2377 SALEM PASSIVE REPEATER SITE 10,266 2378 SALEM PASSIVE REPEATER SITE 10,266 2379 SALEM PASSIVE REPEATER SITE 10,266 2381 <td></td> <td></td> <td></td> <td>·</td> <td></td> <td></td>				·		
2326 ROSS AMPERE BUILDING 54,940-61 2338 ROSS COMPLEX 54,084-571 2364 ROSS CONSTRUCTION AND SERVICES BUILDING 9,348,266 2366 ROSS BWA LABORATORY 603,409 2367 ROSS SANDISTATION 43,336 2368 ROSS SANDISTATION 52,532 2368 ROSS SUBSTATION 52,532 2370 ROSS WAREHOUSE 5,737,739 2371 ROSS-FRANKIN FIBER SYSTEM 20,824-601 2372 ROSS-MALIN FIBER SYSTEM 20,824-601 2373 ROUNDLY SUBSTATION 133,669 2374 ROSS-MALIN FIBER SYSTEM 20,824-601 2375 ROUNDLY SUBSTATION 86,577 2376 ROCK-CHEN SUBSTATION 133,669 2377 ROUNDLY SUBSTATION 10,266 2378 SALEM PASSIVE REFEATER SITE 10,266 2379 SALEM PASSIVE REFEATER SITE 10,266 2379 SAND DUNES SUBSTATION STATION 93,311 2381 SALEM SUBSTATION SUBSTATION 19,312 2382						
2968 ROSS COMPIEX \$4,084,571 2968 ROSS CONSTRUCTION AND SERVICES BUILDING 9,348,266 2956 ROSS BHY LABORATORY 603,409 2367 ROSS RANDE SANDES HEADQUARTERS 205,983 2367 ROSS RADIO STATION 521,532 2368 ROSS SUBSTATION 521,532 2379 ROSS WAREHOUSE 5,737,739 2371 ROSS WAREHOUSE 5,737,739 2371 ROSS-RANKIN FIBER SYSTEM 20,193,947 2372 ROSS-RANKIN FIBER SYSTEM 20,193,947 2373 ROUND VALLEY SUBSTATION 133,669 2374 ROUND VALLEY SUBSTATION 133,669 2375 SACALAWEA SUBSTATION 712,737 2376 SACHERN SUBSTATION 16,611 2377 SALEM PASSIVE REPEATER SITE 10,266 2378 SALEM PASSIVE REPEATER SITE 10,266 2379 SALEM PASSIVE REPEATER SITE 10,266 2379 SALEM PASSIVE REPEATER SITE 10,266 2379 SALEM PASSIVE REPEATER SITE 10,266				•		
2948 ROSS CONSTRUCTION AND SERVICES BUILDING 9,348,266 2956 ROSS BHY LABORATORY 603,409 2366 ROSS MANITHANCE HEADQUARTERS 205,983 2876 ROSS SADIO STATION 43,336 2368 ROSS SADIO STATION 521,532 2369 ROSS SUBSTATION 3,459,861 2371 ROSS-FRANKIN FIBER SYSTEM 20,824,601 2372 ROSS-FRANKIN FIBER SYSTEM 20,824,601 2373 ROUNDUP SUBSTATION 133,669 2374 ROSS-MALIN FIBER SYSTEM 20,193,947 2375 ROSS-MALIN FIBER SYSTEM 20,193,947 2376 ROSS-MALIN FIBER SYSTEM 133,669 2377 ROUNDUP SUBSTATION 165,77 2378 ROUNDUP SUBSTATION 712,737 2376 SACHEEN SUBSTATION 26,811 2377 SALEM PASSING REPEATER SITE 10,266 2378 SALEM PASSING REPEATER SITE 10,266 2379 SAND DUNES SUBSTATION (SALEM ELEC) 58,881 2380 SAND SPRING COMPENSATION STATION 93,311 2381 SANDARD SUBSTATION (SALEM ELEC) 19,366 2382 SANTIAM SUBSTATION (SALEM ELEC) 20,569 2383 SANULTZ MAINTÉMENT (SALEM ELEC) 19,371 23				, ,		
2956 ROSS RHVILABORATORY 603.409 2267 ROSS RANDE HEADQUARTERS 205.983 2367 ROSS RANDE STATION 521,532 2368 ROSS SUBSTATION 521,532 2368 ROSS SUBSTATION 3.459,851 2370 ROSS WAREHOUSE 5,737,739 2371 ROSS FRANKLIN FIBER SYSTEM 20,183,947 2372 ROSS-RANKLIN FIBER SYSTEM 20,193,947 2373 ROUND VALLEY SUBSTATION 133,669 2374 ROUND VALLEY SUBSTATION 133,669 2375 ROCALAWEA SUBSTATION 12,671 2376 SACELIAN SUBSTATION 26,811 2377 SALEM PASSIVE REPEATER SITE 10,266 2378 SALDEM SUBSTATION (SALEM FLEC) 558,488 2379 SAND DUNES SUBSTATION 23,311 2381 SAND SPRING COMPRISATION STATION 33,311 2382 SANTIAM SUBSTATION(SPA) 1,903,112 2383 SANTIAM SUBSTATION(SPA) 1,903,112 2384 SATOPOINT SUBSTATION STATION 1,903,912				, ,		
205, 803 205, 803						
2088 ROSS SUBSTATION 521,532						
2369 ROSS TOOLS AND EQUIPMENT BUILDING 3,459,851 5,737,739 5,7737,739 5				43,336		
2371 ROSS WAREHOUSE 5,737,739 2024,601 2372 ROSS-FRANKLIN FIBER SYSTEM 20,824,601 20,133,947 23,737 ROSS-FRANKLIN FIBER SYSTEM 20,133,947 23,737 ROUND VALLEY SUBSTATION 133,669 23,74 ROUNDUP SUBSTATION 86,577 23,75 ROCALAWEA SUBSTATION 712,737 23,75 ROCALAWEA SUBSTATION ROCALAWEA SUBSTA	2368			·		
22372 ROSS-FRANKLIN FIBER SYSTEM 20,193,947 2372 ROSS-MALIN FIBER SYSTEM 20,193,947 2373 ROUND VALLEY SUBSTATION 133,669 2374 ROUNDUP SUBSTATION 86,577 2375 SACALAWER SUBSTATION 712,737 2376 SACHEN SUBSTATION 26,811 26,811 2737 2376 SACHEN SUBSTATION 26,811 26,811 26,811 2737 2378 SALEM PASSIVE REPEATER SITE 10,286 2378 SALEM PASSIVE REPEATER SITE 10,286 2378 SALEM SUBSTATION (SALEM ELEC) 558,458 2380 2380 SAND SPRING COMPENSATION STATION 93,311 23231 SANDPOINT SUBSTATION(BA) 22,550 2381 SANDPOINT SUBSTATION(BA) 22,550 2382 SANTIAM SUBSTATION(BPA) 206,955 2384 SATSOP SUBSTATION(BPA) 1,903,112 2383 SANTIAM SUBSTATION(BPA) 1,903,112 2385 SAVITELL RADIO STATION 210,883 2386 SCHULTZ MAINTENANCE HEADQUARTERS 2,704,238 2386 SCHULTZ SUBSTATION 1,656,445 2388 SCHULTZ SUBSTATION 1,237,435 2389 SCHULTZ SUBSTATION 1,237,435 2389 SCHULTZ SUBSTATION 1,237,435 2389 SCHULTZ-WAINTENANCE HEADQUARTERS 2,8852 2391 SEATILE RADIO STATION 3,908 3293 SHALTLE RADIO STATION 3,908 3293 SHALTLE RADIO STATION 3,908 3293 SHELTON-SUBSTATION 13,189 3293 SHELTON-SUBSTATION 1,180,09 399,843 3295 SHELTON-SUBT REPUBLIEN ON 1 399,843 3295 SHELTON-SUBSTATION 1,180,09 340,000						
20,193,947 2373 ROUND VALLEY SUBSTATION 2374 ROUND VALLEY SUBSTATION 2375 SACAJAWEA SUBSTATION 2376 SACAJAWEA SUBSTATION 2377 SACHERN SUBSTATION 24,811 2377 SALEM PASSIVE REPEATER SITE 10,266 2378 SALEM SUBSTATION 25,841 2377 SALEM SUBSTATION 24,881 2378 SALEM SUBSTATION 25,884 2379 SAND DUNES SUBSTATION 2380 SAND PRINTS COMPENSATION STATION 2381 SAND PRINTS COMPENSATION STATION 2381 SANDPOINT SUBSTATION 2382 SANTIAM SEBSTATION 24,931 2383 SANTIAM SEBSTATION 24,932 SANTIAM SEBSTATION 26,955 2384 SATSOP SUBSTATION 26,955 2384 SATSOP SUBSTATION 210,883 2385 SAWITEL RADIO STATION 210,883 2386 SCHULTZ HANDINANCE HEADQUARTERS 2388 SCHULTZ SUBSTATION 24,238 SCHULTZ SUBSTATION 25,456 2389 SCHULTZ-WAITOMA NO 1 26,953 2399 SOOTT MOUNTAIN RADIO STATION 28,852 2399 SOOTT MOUNTAIN RADIO STATION 2391 SEATTLE RADIO STATION 2392 SHANIKO RADIO STATION 2393 SHANIKO RADIO STATION 2394 SHELTON SUBSTATION 2395 SHELTON SUBSTATION 2396 SHELTON SUBSTATION 2397 SCILER MANTENANCE HEADQUARTERS 2398 SCILER SUBSTATION 2399 SCILER SUBSTATION 2391 SEATURE RADIO STATION 2392 SCILER MANTENANCE HEADQUARTERS 2393 SICKLER MUSTATION 2394 SHELTON SUBSTATION 2395 SHELTON SUBSTATION 2396 SHELTON SUBSTATION 2397 SCILER SUBSTATION 2401 SLIVER CREEK SUBSTATION 2402 SLIVER CREEK SUBSTATION 2403 SKYROCKET RADIO STATION 2404 SLIVER RODE SUBSTATION 2405 SNOHOMISH CO. PLUD DISPATCH CENTER 2406 SNOHOMISH SUBSTATION 2407 SNOHOMISH SUBSTATION 2408 SNOHOMISH COLLEMANCE HEADQUARTERS 2408 SNOHOMISH SUBSTATION 2409 SNOHOMISH SUBSTATION 2416 SNOHOMISH SUBSTATION 2417 SLIVER CREEK SUBSTATION 2418 SNOHOMISH SUBSTATION 2419 SNOHOMISH SUBSTATION 2419 SNOHOMISH SUBSTATION 2419 SNOHO				, ,		
2373 ROUND VALLEY SUBSTATION 133.669 2374 ROUNDUP SUBSTATION 712,737 2375 SACALAWEA SUBSTATION 712,737 2376 SACHERN SUBSTATION 712,737 2377 SACHERN SUBSTATION 26,811 2378 SALEM PASSIVE REPEATER SITE 10,266 2378 SALEM PASSIVE REPEATER SITE 10,266 2378 SALEM SUBSTATION (SALEM ELEC) 558,458 2389 SAND DUNES SUBSTATION 58,891 2380 SAND DUNES SUBSTATION STATION 93,311 2381 SANDPOINT SUBSTATION STATION 93,311 2381 SANDPOINT SUBSTATION 1,903,112 2383 SANTIAM SUBSTATION 1,903,112 2383 SANTIAM SUBSTATION 1,903,112 2384 SATSOP SUBSTATION 1,903,112 2385 SAWTELL RADIO STATION 210,883 2386 SCHULTZ MAINTENANCE HEADQUARTERS 2,704,238 2387 SCHULTZ SUBSTATION 1,656,445 2388 SCHULTZ SUBSTATION 1,856,445 2389 SCHULTZ-WAUTOMA NO 1 1,237,435 2389 SCHULTZ-WAUTOMA NO 1 1,237,435 2390 SCOTT MOUNTAIN RADIO STATION 3,908 2392 SCOTT MOUNTAIN RADIO STATION 585,217 2393 SHANKO RADIO STATION 15,189 2394 SHELTON SUBSTATION 1,193,020 2395 SHELTON-SUSTATION 1,193,021 2396 SHELTON-SUSTATION 1,193,021 2397 SICKLER SUBSTATION 399,843 2398 SCHLER SUBSTATION 1,193,021 2399 SCKLER SUBSTATION 399,843 2399 SCKLER SUBSTATION 433,737 2401 SLVER CREEK SUBSTATION 433,737 2402 SLVERADO SUSSTATION 433,737 2403 SKYROCKET RADIO STATION 849,895 2404 SLTVERADO SUBSTATION 434,735 2405 SKYROCKET RADIO STATION 849,895 2406 SKYROCKET RADIO STATION 3,418,035 2407 SNOHOMISH SUBSTATION 3,418,035 2408 SNOHOMISH SUBSTATION 1,193,261 2409 SNOHOMISH SUBSTATION 3,418,035 2409 SNOHOMISH SUBSTATION 1,193,261 2409 SNOHOMISH SUBSTATION 3,418,035 2409 SNOHOMISH SUBSTATION						
2374 ROUNDUP SUBSTATION 86,577 2375 236,2JAWEA SUBSTATION 26,811 2377 2376 236,2JAWEA SUBSTATION 26,811 2377 2378 2378 2378 2378 2378 2378 2378 2378 2378 2378 2378 2379 2378 2379 23				, ,		
2375 SACAJAWEA SUBSTATION 712/737 2376 SACHEIN SUBSTATION 26.811 2377 SALEM PASSIVE REPEATER SITE 10,266 2378 SALEM SUBSTATION (SALEM ELEC) 558,458 2379 SAND DUNES SUBSTATION 55.891 2380 SAND SPRING COMPENSATION STATION 93,311 2381 SANDPOINT SUBSTATION (SALEM ELEC) 20,955 2382 SANTIAM SUBSTATION (SALEM ELEC) 20,955 2383 SANTIAM SUBSTATION (SALEM ELEC) 20,955 2384 SATSOP SUBSTATION (SALEM ELEC) 21,983 2385 SANTIAM SUBSTATION (SALEM ELEC) 21,983 2386 SALITIAM SUBSTATION (SALEM ELEC) 21,983 2387 SCHULTZ KINDINGPA 1,93,020 2388 SAWTELL RADIO STATION 210,883 2389 SCHULTZ WAUTOMA NO 1 1,027,435 2389 SCHULTZ WAUTOMA NO 1 1,237,435 2389 SCHULTZ-WAUTOMA NO 1 18,029,963 2390 SCOTT MOUNTAIN RADIO STATION 288,852 2391 SEATTLE RADIO STATION 3,908 2392 SHANKO RADIO STATION 15,189 2393 SHANKO RADIO STATION 15,506 2394 SHELTON SUBSTATION 399,843 2395 SHELTON SUBSTATION 399,843 2396 SHELTON SUBSTATION 1,189 2397 SICKLER SUBSTATION 399,843 2398 SICKLER SUBSTATION 399,843 2399 SICKLER SUBSTATION 433,737 2401 SLVER CREEK SUBSTATION 433,737 2402 SLVERA CREEK SUBSTATION 433,737 2403 SKYROCKET RADIO STATION 849,895 2404 SLATT SUBSTATION 434,879 2405 SNOHOMISH LOS LOS LATION 345,862 2406 SNOHOMISH LOS LOS LATION 345,862 2407 SNOHOMISH CO, PUD DISPATCH CENTER 8,994 2408 SNOHOMISH SUBSTATION 3,459,629 2409 SNOHOMISH SUBSTATION 3,459,629 2406 SNOHOMISH SUBSTATION 3,459,629 2407 SNOHOMISH SUBSTATION 3,459,629 2408 SNOHOMISH SUBSTATION 3,459,629 2409 SNOHOMISH SUBSTATION 3,4				/		
2376 SACHEEN SUBSTATION 26,811 2377 SALEM PASSIVE REPEATER SITE 10,266 2378 SALEM SUBSTATION (SALEM ELEC) 558,458 2379 SAND DUNES SUBSTATION (SALEM ELEC) 558,458 2379 SAND SPRING COMPENSATION STATION 93,311 2381 SAND SPRING COMPENSATION STATION 93,311 2381 SAND SPRING COMPENSATION STATION 93,311 2382 SANTIAM SUBSTATION (BPA) 22,550 2382 SANTIAM SUBSTATION (BPA) 1,903,112 2383 SANTIAM BETHEL NO 1 206,955 2384 SATISOP SUBSTATION(BPA) 1,193,020 2385 SAWTELL RADIO STATION 210,883 2386 SCHULTZ MAINTENANCE HEADQUARTERS 2,704,238 2387 SCHULTZ SUBSTATION 1,666,445 2388 SCHULTZ-ECHO LAKE NO 1 1,237,435 2389 SCHULTZ-WAUTOMA NO 1 1,802,963 2399 SCHUTZ-WAUTOMA NO 1 1,802,963 2390 SCOTT MOUNTAIN RADIO STATION 288,852 2391 SEATTLE RADIO STATION 3,908 2392 SHANIKO RADIO STATION 585,217 2393 SHANO SUBSTATION 13,189 2394 SHELTON-KITSAP NO 2 399,843 2395 SHELTON-KITSAP NO 2 399,843 2396 SHELTON-SOUTH BREMERTON NO 1 311,816 2400 SIFTON SUBSTATION 1,309,745 2401 SILVERADO SUBSTATION 433,737 2402 SUKLER SUBSTATION 433,737 2403 SKYROCKET RADIO STATION 3,459,629 2404 SLATT SUBSTATION 3,459,629 2405 SNOHOMISH CO. PUD DISPATCH CENTER 8,094 2406 SNOHOMISH SUBSTATION 1,193,261 2407 SNOHOMISH SUBSTATION 1,193,261 2408 SNOHOMISH SUBSTATION 1,193,261 2409 SNOHOMISH SUBSTATION 1,193,261 2409 SNOHOMISH SUBSTATION 1,193,261 2409 SNOHOMISH MAINTENANCE HEADQUARTERS 4,663						
2377 SALEM PASSIVE REPEATER SITE 10,266 2378 SALEM SUBSTATION (SALEM ELEC) 558,458 2379 SAND DUNES SUBSTATION 58,891 2380 SAND SPRING COMPENSATION STATION 93,311 2381 SANDPOINT SUBSTATIONSPPA) 22,550 2382 SANTIAM SUBSTATION 1,903,112 2383 SANTIAM SUBSTATION (PPA) 1,193,020 2384 SATSOP SUBSTATION (PPA) 1,193,020 2385 SAWITELL RADIO STATION 210,883 2386 SCHULTZ MISTRIANCE HEADQUARTERS 2,704,238 2387 SCHULTZ SUBSTATION 1,656,445 2388 SCHULTZ-WAUTOMA NO 1 18,029,963 2399 SCOTI MOUNTAIN RADIO STATION 288,852 2391 SEATTLE RADIO STATION 3,908 2392 SHANIKO RADIO STATION 3,908 2392 SHANIKO RADIO STATION 13,189 2393 SEATTLE RADIO STATION 39,843 2394 SHELTON-KITSAP NO 2 399,843 2395 SHELTON-KITSAP NO 2 399,843 <						
2379 SAND DINES SUBSTATION 58,891 2380 SAND SPRING COMPENSATION STATION 93,311 2381 SAND SIRING COMPENSATION (SPA) 22,550 2382 SANTIAM SUBSTATION 1,903,112 2383 SANTIAM SUBSTATION (SPA) 1,903,112 2384 SANTIAM SUBSTATION(BPA) 1,139,020 2385 SANTIAL RADIO STATION 210,883 2386 SCHULTZ KIRTHANDO STATION 1,656,445 2387 SCHULTZ SUBSTATION 1,656,445 2388 SCHULTZ-EVOL LAKE NO 1 1,237,435 2389 SCHULTZ-WAUTOMA NO 1 18,029,963 2390 SCOTIT MOUNTAIN RADIO STATION 288,852 2391 SEATTLE RADIO STATION 3,908 2392 SHANKO RADIO STATION 585,217 2393 SHELTON SUBSTATION 716,506 2394 SHELTON SUBSTATION 399,843 2395 SHELTON-KITSAP NO 2 399,843 2396 SHELTON-KITSAP NO 2 399,843 2397 SICKLER MAINTENANCE HEADQUARTERS 1,069,891 2401 SILVER RADIO SUBSTATION 1,309,745 <tr< td=""><td></td><td></td><td></td><td>10,266</td><td></td><td></td></tr<>				10,266		
2380 SAND SRRING COMPENSATION STATION 93.311 2381 SANDPOINT SUBSTATION(BPA) 22,550 2382 SANTIAM SUBSTATION 1,903,112 2383 SANTIAM BETHEL NO 1 206,955 2384 SATSOP SUBSTATION(BPA) 1,193,020 2385 SANTIAL RADIO STATION 210,883 2386 SCHULTZ MAINTENANCE HEADQUARTERS 2,704,238 2387 SCHULTZ SUBSTATION 1,666,445 2388 SCHULTZ-ECHO LAKE NO 1 1,237,435 2389 SCHULTZ-WAUTOMA NO 1 18,029,963 2390 SCOTT MOUNTAIN RADIO STATION 38,962 2391 SEATTLE RADIO STATION 3,908 2392 SHANKO RADIO STATION 3,908 2393 SCHULTS SUBSTATION 13,189 2394 SHELTON SUBSTATION 716,506 2395 SHELTON SUBSTATION 399,843 2396 SHELTON-SOUTH BREMERTON NO 1 399,843 2397 SICKLER SUBSTATION 1,069,891 2398 SICKLER SUBSTATION 311,816 2400 SIFTON SUBSTATION 433,737 2401						
2381 SANDPOINT SUBSTATION (BPA) 22,550 2382 SANTIAM SUBSTATION (BPA) 1,903,112 2383 SANTIAM SUBSTATION (BPA) 1,903,012 2384 SAYSOP SUBSTATION(BPA) 1,193,020 2385 SAWTELL RADIO STATION 210,883 2386 SCHULTZ MAINTENANCE HEADQUARTERS 2,704,238 2387 SCHULTZ SUBSTATION 1,656,445 2388 SCHULTZ-ECHO LAKE NO 1 18,029,963 2389 SCOTT MOUNTAIN RADIO STATION 288,852 2391 SEATTLE RADIO STATION 3,908 2392 SHANIKO RADIO STATION 3,908 2393 SHELTON SUBSTATION 13,189 2394 SHELTON SUBSTATION 716,506 2395 SHELTON SUBSTATION 716,506 2395 SHELTON SUBSTATION 399,843 2396 SHELTON SUBSTATION 399,843 2397 SICKLER MAINTENANCE HEADQUARTERS 1,069,891 2398 SICKLER SUBSTATION 1,311,816 2400 SICTION SUBSTATION 1,337,745 2401 SILVER ADO SUBSTATION 433,737 2402				·		
2382 SANTIAM SUBSTATION 1,903,112 2383 SANTIAM-BETHEL NO 1 206,955 2384 SATSOP SUBSTATION(BPA) 1,193,020 2385 SAVITELL RADIO STATION 210,883 2386 SCHULTZ SUBSTATION 1,656,445 2387 SCHULTZ-ECHO LAKE NO 1 1,237,435 2389 SCHULTZ-ECHO LAKE NO 1 18,029,963 2390 SCOTT MOUNTAIN RADIO STATION 288,852 2391 SEATTLE RADIO STATION 3,908 2392 SHANIKO RADIO STATION 3,908 2393 SHANIKO RADIO STATION 13,189 2394 SHAITON SUBSTATION 113,189 2394 SHELTON SUBSTATION 716,506 2395 SHELTON SUBSTATION 399,843 2396 SHELTON-SOUTH BREWERTON NO 1 399,843 2397 SICKLER MAINTENANCE HEADQUARTERS 1,069,891 2398 SICKLER SUBSTATION 311,816 2400 SIFTON SUBSTATION 311,816 2401 SILVER ADO SUBSTATION (CLALLAMCO. PUD) A33,737 2402 SILVER ADO SUBSTATION (CLALLAMCO. PUD) A43,737 <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td></tr<>						
2383 SANTIAM-BETHEL NO 1 206,955 2384 SATSOP SUBSTATION(BPA) 1,193,020 2385 SAWTELL RADIO STATION 210,883 2386 SCHULTZ MAINTENANCE HEADQUARTERS 2,704,238 2387 SCHULTZ-SUBSTATION 1,656,445 2388 SCHULTZ-ECHO LAKE NO 1 1,237,435 2389 SCHULTZ-WAUTOMA NO 1 18,029,963 2390 SCOTT MOUNTAIN RADIO STATION 288,852 2391 SEATTLE RADIO STATION 3,908 2392 SHANIKO RADIO STATION 3,908 2393 SHANIKO RADIO STATION 13,189 2394 SHELTON SUBSTATION 116,506 2395 SHELTON SUBSTATION 716,506 2395 SHELTON SUBSTATION 399,843 2396 SHELTON-SOUTH BREMERTON NO 1 399,843 2397 SICKLER MAINTENANCE HEADQUARTERS 1,069,891 2398 SICKLER SUBSTATION 2,005,652 2399 SICKLER SUBSTATION 3,131,816 2401 SILVER CREEK SUBSTATION 433,737 2402 SILVER CREEK SUBSTATION 3,459,629		. ,		·		
2384 SATSOP SUBSTATION (BPA) 1,193,020 2385 SAWTELL RADIO STATION 210,883 2386 SCHULTZ MAINTENANCE HEADQUARTERS 2,704,238 2387 SCHULTZ SUBSTATION 1,656,445 2388 SCHULTZ-ECHO LAKE NO 1 1,237,435 2389 SCOTLI MOUNTAIN RADIO STATION 288,852 2391 SEATTLE RADIO STATION 3,908 2392 SHANIKO RADIO STATION 3,908 2393 SHANIKO RADIO STATION 13,189 2394 SHELTON SUBSTATION 13,189 2394 SHELTON SUBSTATION 716,506 2395 SHELTON SUBSTATION 399,843 2396 SHELTON SOUTH BREMIERTON NO 1 399,843 2397 SICKLER MAINTENANCE HEADQUARTERS 1,069,891 2398 SICKLER SUBSTATION 2,005,652 2399 SICKLER SUBSTATION 311,816 2400 SILYOR CREEK SUBSTATION 433,737 2401 SILYER CREEK SUBSTATION 6M9,895 2403 SKYROCKET RADIO STATION 3,459,629 2404 SLATT SUBSTATION 3,459,629 2				· · ·		
2385 SAWTELL RADIO STATION 210,883 2386 SCHULTZ MAINTENANCE HEADQUARTERS 2,704,238 2387 SCHULTZ SUBSTATION 1,656,445 2388 SCHULTZ-ECHO LAKE NO 1 1,237,435 2389 SCHULTZ-WAUTOMA NO 1 18,029,963 2390 SCOTT MOUNTAIN RADIO STATION 288,852 2391 SEATTLE RADIO STATION 3,908 2392 SHANIKO RADIO STATION 585,217 2393 SHANO SUBSTATION 716,506 2394 SHELTON SUBSTATION 716,506 2395 SHELTON SUBSTATION 399,843 2396 SHELTON-KITSAP NO 2 399,843 2397 SICKLER MAINTENANCE HEADQUARTERS 1,069,891 2398 SICKLER SUBSTATION 2,005,652 2399 SICKLER SUBSTATION 433,737 2401 SILVER ADIO SUBSTATION (CALLAMCO. PUD) A75 2402 SLVERADO SUBSTATION (CALLAMCO. PUD) CMPUD 875 2403 SKYROCKET RADIO STATION 3,459,629 2404 SLATT SUBSTATION 3,459,629 2405 SNOHOMISH MAINTENANCE HEADQUARTERS 1				·		
2386 SCHULTZ MAINTENANCE HEADQUARTERS 2,704,238 2387 SCHULTZ SUBSTATION 1,656,445 2388 SCHULTZ-CHO LAKE NO 1 1,237,435 2389 SCHULTZ-WAUTOMA NO 1 18,029,963 2390 SCOTT MOUNTAIN RADIO STATION 288,852 2391 SEATTLE RADIO STATION 3,908 2392 SHANIKO RADIO STATION 585,217 2393 SHANO SUBSTATION 13,189 2394 SHELTON SUBSTATION 716,506 2395 SHELTON-KITSAP NO 2 399,843 2396 SHELTON-SOUTH BREMERTON NO 1 399,843 2397 SICKLER MAINTENANCE HEADQUARTERS 1,069,891 2398 SICKLER SUBSTATION 2,005,652 2399 SICKLER SUBSTATION 311,816 2400 SIFTON SUBSTATION 433,737 2401 SILVER CREEK SUBSTATION 433,737 2402 SILVER CREEK SUBSTATION 849,895 2403 SKYROCKET RADIO STATION 3,459,629 2404 SLATT SUBSTATION 3,459,629 2				· · ·		
2387 SCHULTZ SUBSTATION 1,656,445 2388 SCHULTZ-ECHO LAKE NO 1 1,237,435 2389 SCHULTZ-WAUTOMA NO 1 18,029,963 2390 SCOTT MOUNTAIN RADIO STATION 288,852 2391 SEATTLE RADIO STATION 3,908 3392 SHANIKO RADIO STATION 13,189 2393 SHANKO RADIO STATION 13,189 2394 SHELTON SUBSTATION 716,506 2395 SHELTON-KITSAP NO 2 399,843 2396 SHELTON-KITSAP NO 2 399,843 2397 SICKLER MAINTENANCE HEADQUARTERS 1,069,891 2398 SICKLER SUBSTATION 2,005,652 2399 SICKLER SUBSTATION 311,816 2400 SIFTON SUBSTATION 1,309,745 2401 SILVER CREEK SUBSTATION 433,737 2402 SILVER CREEK SUBSTATION 849,895 2403 SKYROCKET RADIO STATION 3,459,629 2404 SLATT SUBSTATION 3,499,629 2405 SNOHOMISH MAINTENANCE HEADQUARTERS 1,648,879 2406 SNOHOMISH MAINTENANCE HEADQUARTERS 1,648,879				•		
2389 SCHULTZ-WAUTOMA NO 1 18,029,963 2390 SCOTT MOUNTAIN RADIO STATION 288,852 2391 SEATTLE RADIO STATION 3,908 2392 SHANIKO RADIO STATION 585,217 2393 SHANO SUBSTATION 13,189 2394 SHELTON SUBSTATION 716,506 2395 SHELTON-KOUTH BREMERTON NO 1 399,843 2396 SHELTON-SOUTH BREMERTON NO 1 399,843 2397 SICKLER MAINTENANCE HEADQUARTERS 1,069,891 2398 SICKLER SUBSTATION 2,005,652 2399 SICKLER-SCHULTZ NO 1 311,816 2400 SIFTON SUBSTATION 1,309,745 2401 SILVER CREEK SUBSTATION 433,737 2402 SILVERADO SUBSTATION (CLALLAMCO. PUD) CMPUD 875 2403 SKYROCKET RADIO STATION 849,895 2404 SLATT SUBSTATION 3,459,629 2405 SNOHOMISH CO. PUD DISPATCH CENTER 8,094 2406 SNOHOMISH MAINTENANCE HEADQUARTERS 1,648,879 2407 SNOHOMISH SUBSTATION 3,418,035 2408 SNO-KING-WAPLE VALLEY NO. 2		SCHULTZ SUBSTATION		1,656,445		
2390 SCOTT MOUNTAIN RADIO STATION 288,852 2391 SEATILE RADIO STATION 3,908 2392 SHANIKO RADIO STATION 585,217 2393 SHANO SUBSTATION 13,189 2394 SHELTON SUBSTATION 716,506 2395 SHELTON-KITSAP NO 2 399,843 2396 SHELTON-SOUTH BREMERTON NO 1 399,843 2397 SICKLER MAINTENANCE HEADQUARTERS 1,069,891 2398 SICKLER SUBSTATION 2,005,652 2399 SICKLER-SCHULTZ NO 1 311,816 2400 SIFTON SUBSTATION 1,309,745 2401 SILVER CREEK SUBSTATION 433,737 2402 SILVERADO SUBSTATION (CLALLAMCO. PUD) CMPUD 875 2403 SKYROCKET RADIO STATION 849,895 2404 SLATT SUBSTATION 3,459,629 2405 SNOHOMISH CO. PUD DISPATCH CENTER 8,094 2406 SNOHOMISH MAINTENANCE HEADQUARTERS 1,648,879 2407 SNOHOMISH MAINTENANCE HEADQUARTERS 1,93,261 2409 SNO-KING-MAPLE VALLEY NO.		SCHULTZ-ECHO LAKE NO 1		1,237,435		
2391 SEATTLE RADIO STATION 3,908 2392 SHANIKO RADIO STATION 585,217 2393 SHANO SUBSTATION 13,189 394 SHELTON SUBSTATION 716,506 2395 SHELTON-KITSAP NO 2 399,843 2396 SHELTON-SOUTH BREMERTON NO 1 399,843 2397 SICKLER MAINTENANCE HEADQUARTERS 1,069,891 2398 SICKLER SUBSTATION 2,005,652 2399 SICKLER-SCHULTZ NO 1 311,816 2400 SIFTON SUBSTATION 1,309,745 2401 SILVER CREEK SUBSTATION 433,737 2402 SILVERADO SUBSTATION (CLALLAMCO. PUD) CMPUD 875 2403 SKYROCKET RADIO STATION 3,459,629 2404 SLATT SUBSTATION 3,459,629 2405 SNOHOMISH CO. PUD DISPATCH CENTER 8,094 2406 SNOHOMISH MAINTENANCE HEADQUARTERS 1,648,879 2407 SNOHOMISH SUBSTATION 3,418,035 2408 SNO-KING-MAPLE VALLEY NO. 2 45,639				· · ·		
2392 SHANIKO RADIO STATION 585,217 2393 SHANO SUBSTATION 13,189 2394 SHELTON SUBSTATION 716,506 2395 SHELTON-KITSAP NO 2 399,843 2396 SHELTON-SOUTH BREMERTON NO 1 399,843 2397 SICKLER MAINTENANCE HEADQUARTERS 1,069,891 2398 SICKLER SUBSTATION 2,005,652 2399 SICKLER-SCHULTZ NO 1 311,816 2400 SIFTON SUBSTATION 1,309,745 2401 SILVER CREEK SUBSTATION 433,737 2402 SILVERADO SUBSTATION (CLALLAMCO. PUD) CMPUD 875 2403 SKY ROCKET RADIO STATION 849,895 2404 SLATT SUBSTATION 3,459,629 2405 SNOHOMISH CO. PUD DISPATCH CENTER 8,094 2406 SNOHOMISH MAINTENANCE HEADQUARTERS 1,648,879 2407 SNOHOMISH SUBSTATION 3,418,035 2408 SNO-KING SUBSTATION 1,193,261 2409 SNO-KING-MAPLE VALLEY NO. 2 45,639				·		
2393 SHANO SUBSTATION 13,189 2394 SHELTON SUBSTATION 716,506 2395 SHELTON-KITSAP NO 2 399,843 2396 SHELTON-SOUTH BREMERTON NO 1 399,843 2397 SICKLER MAINTENANCE HEADQUARTERS 1,069,891 2398 SICKLER SUBSTATION 2,005,652 2399 SICKLER-SCHULTZ NO 1 311,816 2400 SIFTON SUBSTATION 1,309,745 2401 SILVER CREEK SUBSTATION 433,737 2402 SILVERADO SUBSTATION (CLALLAMCO. PUD) CMPUD 875 2403 SKYROCKET RADIO STATION 849,895 2404 SLATT SUBSTATION 3,459,629 2405 SNOHOMISH CO. PUD DISPATCH CENTER 8,094 2406 SNOHOMISH MAINTENANCE HEADQUARTERS 1,648,879 2407 SNOHOMISH SUBSTATION 3,418,035 2408 SNO-KING SUBSTATION 1,193,261 2409 SNO-KING-MAPLE VALLEY NO. 2 45,639				·		
2394 SHELTON SUBSTATION 716,506 2395 SHELTON-KITSAP NO 2 399,843 2396 SHELTON-SOUTH BREMERTON NO 1 399,843 2397 SICKLER MAINTENANCE HEADQUARTERS 1,069,891 2398 SICKLER SUBSTATION 2,005,652 2399 SICKLER-SCHULTZ NO 1 311,816 2400 SIFTON SUBSTATION 1,309,745 2401 SILVER CREEK SUBSTATION 433,737 2402 SILVERADO SUBSTATION (CLALLAMCO. PUD) CMPUD 875 2403 SKY ROCKET RADIO STATION 849,895 2404 SLATT SUBSTATION 3,459,629 2405 SNOHOMISH CO. PUD DISPATCH CENTER 8,094 2406 SNOHOMISH MAINTENANCE HEADQUARTERS 1,648,879 2407 SNOHOMISH SUBSTATION 3,418,035 2408 SNO-KING SUBSTATION 1,193,261 2409 SNO-KING-MAPLE VALLEY NO. 2 45,639						
2395 SHELTON-KITSAP NO 2 399,843 2396 SHELTON-SOUTH BREMERTON NO 1 399,843 2397 SICKLER MAINTENANCE HEADQUARTERS 1,069,891 2398 SICKLER SUBSTATION 2,005,652 2399 SICKLER-SCHULTZ NO 1 311,816 2400 SIFTON SUBSTATION 1,309,745 2401 SILVER CREEK SUBSTATION 433,737 2402 SILVERADO SUBSTATION (CLALLAMCO. PUD) CMPUD 875 2403 SKYROCKET RADIO STATION 849,895 2404 SLATT SUBSTATION 3,459,629 2405 SNOHOMISH CO. PUD DISPATCH CENTER 8,094 2406 SNOHOMISH MAINTENANCE HEADQUARTERS 1,648,879 2407 SNOHOMISH SUBSTATION 3,418,035 2408 SNO-KING SUBSTATION 1,193,261 2409 SNO-KING-MAPLE VALLEY NO. 2 45,639						
2396 SHELTON-SOUTH BREMERTON NO 1 399,843 2397 SICKLER MAINTENANCE HEADQUARTERS 1,069,891 2398 SICKLER SUBSTATION 2,005,652 2399 SICKLER-SCHULTZ NO 1 311,816 2400 SIFTON SUBSTATION 1,309,745 2401 SILVER CREEK SUBSTATION 433,737 2402 SILVERADO SUBSTATION (CLALLAMCO. PUD) CMPUD 875 2403 SKY ROCKET RADIO STATION 849,895 2404 SLATT SUBSTATION 3,459,629 2405 SNOHOMISH CO. PUD DISPATCH CENTER 8,094 2406 SNOHOMISH MAINTENANCE HEADQUARTERS 1,648,879 2407 SNOHOMISH SUBSTATION 3,418,035 2408 SNO-KING SUBSTATION 1,193,261 2409 SNO-KING-MAPLE VALLEY NO. 2 45,639				·		
2398 SICKLER SUBSTATION 2,005,652 2399 SICKLER-SCHULTZ NO 1 311,816 2400 SIFTON SUBSTATION 1,309,745 2401 SILVER CREEK SUBSTATION 433,737 2402 SILVERADO SUBSTATION (CLALLAMCO. PUD) CMPUD 875 2403 SKY ROCKET RADIO STATION 849,895 2404 SLATT SUBSTATION 3,459,629 2405 SNOHOMISH CO. PUD DISPATCH CENTER 8,094 2406 SNOHOMISH MAINTENANCE HEADQUARTERS 1,648,879 2407 SNOHOMISH SUBSTATION 3,418,035 2408 SNO-KING SUBSTATION 1,193,261 2409 SNO-KING-MAPLE VALLEY NO. 2 45,639				,		
2399 SICKLER-SCHULTZ NO 1 311,816 2400 SIFTON SUBSTATION 1,309,745 2401 SILVER CREEK SUBSTATION 433,737 2402 SILVERADO SUBSTATION (CLALLAMCO. PUD) CMPUD 875 2403 SKY ROCKET RADIO STATION 849,895 2404 SLATT SUBSTATION 3,459,629 2405 SNOHOMISH CO. PUD DISPATCH CENTER 8,094 2406 SNOHOMISH MA INTENANCE HEADQUARTERS 1,648,879 2407 SNOHOMISH SUBSTATION 3,418,035 2408 SNO-KING SUBSTATION 1,193,261 2409 SNO-KING-MAPLE VALLEY NO. 2 45,639	2397	SICKLER MAINTENANCE HEADQUARTERS		1,069,891		
2400 SIFTON SUBSTATION 1,309,745 2401 SILVER CREEK SUBSTATION 433,737 2402 SILVERADO SUBSTATION (CLALLAMCO. PUD) CMPUD 875 2403 SKY ROCKET RADIO STATION 849,895 2404 SLATT SUBSTATION 3,459,629 2405 SNOHOMISH CO. PUD DISPATCH CENTER 8,094 2406 SNOHOMISH MA INTENANCE HEADQUARTERS 1,648,879 2407 SNOHOMISH SUBSTATION 3,418,035 2408 SNO-KING SUBSTATION 1,193,261 2409 SNO-KING-MAPLE VALLEY NO. 2 45,639				2,005,652		
2401 SILVER CREEK SUBSTATION 433,737 2402 SILVERADO SUBSTATION (CLALLAMCO. PUD) CMPUD 875 2403 SKY ROCKET RADIO STATION 849,895 2404 SLATT SUBSTATION 3,459,629 2405 SNOHOMISH CO. PUD DISPATCH CENTER 8,094 2406 SNOHOMISH MAINTENANCE HEADQUARTERS 1,648,879 2407 SNOHOMISH SUBSTATION 3,418,035 2408 SNO-KING SUBSTATION 1,193,261 2409 SNO-KING-MAPLE VALLEY NO. 2 45,639						
2402 SILVERADO SUBSTATION (CLALLAMCO. PUD) CMPUD 875 2403 SKY ROCKET RADIO STATION 849,895 2404 SLATT SUBSTATION 3,459,629 2405 SNOHOMISH CO. PUD DISPATCH CENTER 8,094 2406 SNOHOMISH MAINTENANCE HEADQUARTERS 1,648,879 2407 SNOHOMISH SUBSTATION 3,418,035 2408 SNO-KING SUBSTATION 1,193,261 2409 SNO-KING-MAPLE VALLEY NO. 2 45,639						
2403 SKYROCKET RADIO STATION 849,895 2404 SLATT SUBSTATION 3,459,629 2405 SNOHOMISH CO. PUD DISPATCH CENTER 8,094 2406 SNOHOMISH MAINTENANCE HEADQUARTERS 1,648,879 2407 SNOHOMISH SUBSTATION 3,418,035 2408 SNO-KING SUBSTATION 1,193,261 2409 SNO-KING-MAPLE VALLEY NO. 2 45,639			CMDLID	,		
2404 SLATT SUBSTATION 3,459,629 2405 SNOHOMISH CO. PUD DISPATCH CENTER 8,094 2406 SNOHOMISH MAINTENANCE HEADQUARTERS 1,648,879 2407 SNOHOMISH SUBSTATION 3,418,035 2408 SNO-KING SUBSTATION 1,193,261 2409 SNO-KING-MAPLE VALLEY NO. 2 45,639		,	CIVIPUD			
2405 SNOHOMISH CO. PUD DISPATCH CENTER 2406 SNOHOMISH MAINTENANCE HEADQUARTERS 2407 SNOHOMISH SUBSTATION 2408 SNO-KING SUBSTATION 2409 SNO-KING-MAPLE VALLEY NO. 2 8,094 1,648,879 3,418,035 1,193,261 45,639				,		
2406 SNOHOMISH MAINTENANCE HEADQUARTERS 1,648,879 2407 SNOHOMISH SUBSTATION 2408 SNO-KING SUBSTATION 2409 SNO-KING-MAPLE VALLEY NO. 2 1,648,879 3,418,035 1,193,261 45,639				, ,		
2407 SNOHOMISH SUBSTATION 3,418,035 2408 SNO-KING SUBSTATION 1,193,261 2409 SNO-KING-MAPLE VALLEY NO. 2 45,639				•		
2409 SNO-KING-MAPLE VALLEY NO. 2 45,639						
2410 SNO-KING-SNOHOMISH FIBER SYSTEM (DO NOT USE, SEE NOTES) 2,949,281				•		
	2410	SNO-KING-SNOHOMISH FIBER SYSTEM (DO NOT USE	, SEE NOTES)	2,949,281		

A B C D E

		General Plant Facilities			
	General Plant	Owner	Investment (\$)	O&M (\$)	Multi%
2411	SOUTH MOUNTAIN RADIO STATION		297,568		
2412	SOUTH TACOMA SUBSTATION		348,933		
2413 2414	SPAR CANYON SUBSTATION SPOKANE HANGAR		136,951 1,705,354		
2414	SPRING CREEK SUBSTATION		161,800		
2416	SPRING CREEK-WINE COUNTRY NO 1		50,782		
2417	SQUAK MOUNTAIN RADIO STATION		63,709		
2418	ST. JOHNS SUBSTATION		9,571		
2419	STAMPEDE PASS RADIO STATION		145,800		
2420	STEILACOOM SUBSTATION		97,941		
2421	SUMMER LAKE HOUSING		143,243		
2422 2423	SUMMER LAKE SUBSTATION SUN HARBOR SUBSTATION		1,016,692 13,914		
2423	SUNNYSIDE RADIO STATION		756,612		
2425	SURPRISE LAKE SUBSTATION		80,458		
2426	SWAN LAKE POINT RADIO STATION		64,785		
2427	SWAN VALLEY PASSIVE REPEATER SITE		152,951		
2428	SWAN VALLEY RADIO STATION		433,850		
2429	SWAN VALLEY SUBSTATION		262,636		
2430	SWAN VALLEY-TETON NO 1		94,591		
2431	SWAN VALLEY-TETON NO 2		94,531		
2432 2433	SYCAN COMPENSATION STATION SYSTEM WIDE		284,019 29,679,050		
2433	TACOMA PASSIVE REPEATER SITE		7,992		
2435	TACOMA RADIO STATION		1,896,388		
2436	TACOMA SUBSTATION		1,167,434		
2437	TAFT SUBSTATION		1,987,212		
2438	TAHKENITCH SUBSTATION		207,583		
2439	TARGHEE SUBSTATION		138,873		
2440	TARKIO SUBSTATION (SOLD)	MEC	2,772		
2441	TEAKEAN BUTTE RADIO STATION		291,237		
2442	TEANAWAY RADIO STATION		231,214		
2443 2444	TETON SUBSTATION THE DALLES FISHWAY HYDRO PLANT		86,163 16,496		
2445	THE DALLES MAINTENANCE HEADQUARTERS		4,601,552		
2446	THE DALLES OPERATING DISTRICTHEADQUARTERS		26,595		
2447	THE DALLES POWERHOUSE		293,724		
2448	THE DALLES SUBSTATION		250,582		
2449	THOMPSON FALLS RADIO STATION		466,622		
2450	TILLAMOOK SUBSTATION		392,068		
2451	TOLEDO SUBSTATION		161,010		
2452	TRENTWOOD SUBSTATION		87,179		
2453 2454	TROUTDALE SUBSTATION(BPA) TROUTDALE SUBSTATION(PACIFICORP)	PAC	2,934,869 151,373		
2455	TROY SUBSTATION	170	3,763		
2456	TUCANNON RIVER SUBSTATION		1,042,719		
2457	TUNK MOUNTAIN RADIO STATION		211,786		
2458	TWO PARK PLACE		25,339		
2459	TYEE SUBSTATION		88,101		
2460	UNITY SUBSTATION(BPA)		266,885		
2461	USK SUBSTATION(BPA)		130,612		
2462 2463	VALHALLA SUBSTATION		426,991 955,439		
2463	VANTAGE SUBSTATION VAUGHN SUBSTATION		113,732		
2465	WALKER MOUNTAIN RADIO STATION		1,874,997		
2466	WALLA WALLA SUBSTATION(BPA)		764,283		
2467	WALLA WALLA SUBSTATION(PACIFICORP)	PAC	16,384		
2468	WALLA WALLA-WALLA WALLA (PACW) NÓ 1	PAC	163,462		
2469	WARDEN POLE METERING POINT		6,664		
2470	WARNER SUBSTATION		346,484		
2471	WASCO RADIO STATION		685,695		
2472	WATERVILLE RADIO STATION		105,061		
2473 2474	WAUNA PAPER MILL WAUTOMA SUBSTATION		9,063 2,840,279		
2474	WAUTOMA-COLUMBIA FIBER SYSTEM		5,084,288		
2713	WATCH COLONDIA TIDEN CITOTEM		5,004,200		

	Α	В	С	D	E
		General Plant Facilities			
	General Plant	Owner	Investment (\$)	O&M (\$)	Multi %
2476	WAUTOMA-OSTRANDER NO 1		19,979		
2477	WEISER SUBSTATION		7,809		
2478	WENDSON SUBSTATION		565,011		
2479	WENDSON-TAHKENITCH NO 2		514,470		
2480	WEST PORTLAND RADIO STATION		55,659		
2481	WESTSIDE SUBSTATION(BPA)		21,113		
2482	WHISKEY RIDGE RADIO STATION		18,065		
2483	WHITE BLUFFS SUBSTATION		813,829		
2484	WHITE CREEK SUBSTATION (KPUD)	KPUD	29,645		
2485	WILSON RIVER SUBSTATION		5,855		
2486	WINCHESTER SUBSTATION		11,849		
2487	WINDY DEVIL RADIO STATION		82,197		
2488	WINE COUNTRY SUBSTATION	BPA/PAC	732,852		
2489	WOLF MOUNTAIN RADIO STATION		1,472,604		
2490	WPPSS NO. 2 POWERHOUSE	ENW	89,096		
2491	Total General Plant		779,612,109		





	A	В	С	D	E
	Transmission Lines	Investment (\$)	O&M (\$)	Multi %	Segment
1	BUCKLEY-GRIZZLY NO 1	7,514,539	4,285	43%	Network
2	BUCKLEY-GRIZZLY NO 1	9,961,133	5,680	57%	Southern Intertie
3	BUCKLEY-GRIZZLY NO 1	17,475,672	9,965	100%	Total
4	BUCKLEY-MARION NO 1	20,369,871	17,796	50%	Network
5	BUCKLEY-MARION NO 1	20,369,871	17,796	50%	Southern Intertie
6	BUCKLEY-MARION NO 1	40,739,743	35,591	100%	Total
O	DOCKEL I WILLION NO I	10,700,710	00,001	10070	10101
7	COUGAR-THURSTON NO 1	123,688	1,585	5%	Generation Integration
8	COUGAR-THURSTON NO 1	2,159,286	27,674	95%	Network
9	COUGAR-THURSTON NO 1	2,282,974	29,259	100%	Total
10	COYOTE SPRINGS-SLATT NO 1	2,352,112	3,944	88%	Network
11	COYOTE SPRINGS-SLATT NO 1	328,931	552	12%	Southern Intertie
12	COYOTE SPRINGS-SLATT NO 1	2,681,042	4,496	100%	Total
13	GREEN PETER-LEBANON NO 1	357,224	4,339	35%	Generation Integration
14	GREEN PETER-LEBANON NO 1	666,893	8,101	65%	Network
15	GREEN PETER-LEBANON NO 1	1,024,116	12,440	100%	Total
16	GRIZZLY-SUMMER LAKE NO 1	14,696,081	16,635	43%	Network
17	GRIZZLY-SUMMER LAKE NO 1	19,480,851	22,051	57%	Southern Intertie
18	GRIZZLY-SUMMER LAKE NO 1	34,176,932	38,686	100%	Total
4.0		4 0 4 0 4 0 0		0.407	No. 1
19	Grouse Creek-Tecoma Transmission Lines & Substation	1,919,106	0	94%	Network
20	Grouse Creek-Tecoma Transmission Lines & Substation	121,332	0	6%	Utility Delivery
21	Grouse Creek-Tecoma Transmission Lines & Substation	2,040,437	0	100%	Total
22	HILLS CREEK-LOOKOUT POINT NO 1	297,360	5,732	19%	Generation Integration
23	HILLS CREEK-LOOKOUT POINT NO 1	1,242,208	23,947	81%	Network
24	HILLS CREEK-LOOKOUT POINT NO 1	1,539,568	29,679	100%	Total
25	ICE HARBOR-FRANKLIN NO 2	15,726	34	3%	Generation Integration
26	ICE HARBOR-FRANKLIN NO 2	554,825	1,202	97%	Network
27	ICE HARBOR-FRANKLIN NO 2	570,551	1,236	100%	Total
28	ICE HARBOR-FRANKLIN NO 3	133,963	109	9%	Generation Integration
29	ICE HARBOR-FRANKLIN NO 3	1,331,565	1,085	91%	Network
30	ICE HARBOR-FRANKLIN NO 3	1,465,528	1,194	100%	Total
31	MARION-ALVEY NO 1	4,456,110	17,990	50%	Network
32	MARION-ALVEY NO 1	4,456,110	17,990	50%	Southern Intertie
33	MARION-ALVEY NO 1	8,912,221	35,979	100%	Total
34	SLATT-JOHN DAY NO 1	4,830,181	16,607	93%	Network
35	SLATT-JOHN DAY NO 1	328,108	1,250	7%	Southern Intertie
36	SLATT-JOHN DAY NO 1	5,158,288	17,858	100%	Total
		-,,	,		

	Α	В	С	D	E
			O&M		
	Transmission Lines	Investment (\$)	(\$)	Multi %	Segment
1	BUCKLEY-GRIZZLY NO 1	7,514,539	4,285	43%	Network
2	BUCKLEY-GRIZZLY NO 1	9,961,133	5,680	57%	Southern Intertie
3	BUCKLEY-GRIZZLY NO 1	17,475,672	9,965	100%	Total
4	BUCKLEY-MARION NO 1	20,369,871	17,796	50%	Network
5	BUCKLEY-MARION NO 1	20,369,871	17,796	50%	Southern Intertie
6	BUCKLEY-MARION NO 1	40,739,743	35,591	100%	Total
7	COUGAR-THURSTON NO 1	123,688	1,585	5%	Generation Integration
8	COUGAR-THURSTON NO 1	2,159,286	27,674	95%	Network
9	COUGAR-THURSTON NO 1	2,282,974	29,259	100%	Total
40	COVOTE CODINCE CLATENO 4	2.252.442	2.044	0.00/	Naturali
10	COYOTE SPRINGS SLATT NO 1	2,352,112	3,944	88%	Network
11 12	COYOTE SPRINGS-SLATT NO 1 COYOTE SPRINGS-SLATT NO 1	328,931 2,681,042	552 4,496	12% 100%	Southern Intertie Total
12	COTOTE SPRINGS-SLATT NOT	2,001,042	4,490	100%	Total
13	GREEN PETER-LEBANON NO 1	357,224	4,339	35%	Generation Integration
14	GREEN PETER-LEBANON NO 1	666,893	8,101	65%	Network
15	GREEN PETER-LEBANON NO 1	1,024,116	12,440	100%	Total
16	GRIZZLY-SUMMER LAKE NO 1	14,696,081	16,635	43%	Network
17	GRIZZLY-SUMMER LAKE NO 1	19,480,851	22,051	57%	Southern Intertie
18	GRIZZLY-SUMMER LAKE NO 1	34,176,932	38,686	100%	Total
19	Grouse Creek-Tecoma Transmission Lines & Substation	1,919,106	0	94%	Network
20	Grouse Creek-Tecoma Transmission Lines & Substation	121,332	0	6%	Utility Delivery
21	Grouse Creek-Tecoma Transmission Lines & Substation	2,040,437	0	100%	Total
22	HILLS CREEK-LOOKOUT POINT NO 1	297,360	5,732	19%	Generation Integration
23	HILLS CREEK-LOOKOUT POINT NO 1	1,242,208	23,947	81%	Network
24	HILLS CREEK-LOOKOUT POINT NO 1	1,539,568	29,679	100%	Total
25	ICE HARBOR-FRANKLIN NO 2	15,726	34	3%	Generation Integration
26	ICE HARBOR-FRANKLIN NO 2	554,825	1,202	97%	Network
27	ICE HARBOR-FRANKLIN NO 2	570,551	1,236	100%	Total
28	ICE HARBOR-FRANKLIN NO 3	133,963	109	9%	Generation Integration
29	ICE HARBOR-FRANKLIN NO 3	1,331,565	1,085	91%	Network
30	ICE HARBOR-FRANKLIN NO 3	1,465,528	1,194	100%	Total
31	MARION-ALVEY NO 1	4,456,110	17,990	50%	Network
32	MARION-ALVEY NO 1	4,456,110	17,990	50%	Southern Intertie
33	MARION-ALVEY NO 1	8,912,221	35,979	100%	Total
34	SLATT-JOHN DAY NO 1	4,830,181	16,607	93%	Network
35	SLATT-JOHN DAY NO 1	328,108	1,250	7%	Southern Intertie
36	SLATT-JOHN DAY NO 1	5,158,288	17,858	100%	Total
50	CLAT JOHN DAI NO I	5,150,200	17,000	10070	Total

	Α	В	С	D	E
	Substations	Investment (\$)	O&M (\$)	Multi %	Segment
37	ADDY SUBSTATION	7,221,024	55,953	70%	Network
38	ADDY SUBSTATION	3,092,383	23,962	30%	Unsegmented
39	ADDY SUBSTATION	10,313,407	79,914	100%	Total
40	ALBANY SUBSTATION	11,467,254	104,068	88%	Network
41	ALBANY SUBSTATION	1,591,607	14,444	12%	Utility Delivery
42	ALBANY SUBSTATION	13,058,861	118,512	100%	Total
43	ALBENI FALLS SUBSTATION	365,644	6,150	25%	Generation Integration
44	ALBENI FALLS SUBSTATION	1,096,932	18,449	75%	Network
45	ALBENI FALLS SUBSTATION	1,462,575	24,598	100%	Total
46	ALCOA SUBSTATION	7,740,270	132,586	88%	Network
47	ALCOA SUBSTATION	1,091,469	18,696	12%	Unsegmented
48	ALCOA SUBSTATION	8,831,740	151,282	100%	Total
49	ALVEY SUBSTATION	23,034,748	228,758	74%	Network
50	ALVEY SUBSTATION	8,053,719	79,981	26%	Southern Intertie
51	ALVEY SUBSTATION	31,088,468	308,739	100%	Total
52	ASHE SUBSTATION	4,245,588	50,064	12%	Generation Integration
53	ASHE SUBSTATION	31,209,146	368,015	88%	Network
54	ASHE SUBSTATION	35,454,734	418,079	100%	Total
55	BANDON SUBSTATION	4,085,324	57,378	84%	Network
56	BANDON SUBSTATION	797,332	11,198	16%	Utility Delivery
57	BANDON SUBSTATION	4,882,656	68,576	100%	Total
58	BIG EDDY SUBSTATION	3,430,442	28,198	5%	Generation Integration
59	BIG EDDY SUBSTATION	10,857,639	89,248	14%	Network
60	BIG EDDY SUBSTATION	60,615,224	498,250	81%	Southern Intertie
61	BIG EDDY SUBSTATION	74,903,305	615,696	100%	Total
62	BONNERS FERRY SUBSTATION	1,689,233	32,486	73%	Network
63	BONNERS FERRY SUBSTATION	615,682	11,840	27%	Utility Delivery
64	BONNERS FERRY SUBSTATION	2,304,915	44,326	100%	Total
65	BUCKLEY SUBSTATION	3,489,220	34,755	36%	Network
66	BUCKLEY SUBSTATION	6,248,137	62,236	64%	Southern Intertie
67	BUCKLEY SUBSTATION	9,737,357	96,992	100%	Total
68	BURBANK SUBSTATION	516,445	8,848	83%	Utility Delivery
69	BURBANK SUBSTATION	103,059	1,766	17%	Unsegmented
09	BURBANK SUBSTATION	619,504	10,614	100%	Total
70	BOND/WIC CODE I/MICIN	010,004	10,014	10070	Total
71	CHIEF JOSEPH SUBSTATION	8,068,407	170,936	25%	Generation Integration
72	CHIEF JOSEPH SUBSTATION	23,535,065	498,609	72%	Network
73	CHIEF JOSEPH SUBSTATION	1,081,225	22,907	3%	Southern Intertie
74	CHIEF JOSEPH SUBSTATION	32,684,697	692,452	100%	Total
-					
75	CONKELLEY SUBSTATION	5,164,221	93,812	45%	Network
76	CONKELLEY SUBSTATION	6,258,745	113,694	55%	DSI Delivery
					=

	CONKELLEY SUBSTATION	11,422,966	207,506	100%	Total
77	CONNECED TOOLS TATION	11,422,500	207,000	10070	rotar
78	DRAIN SUBSTATION	2,664,627	35,132	91%	Network
79	DRAIN SUBSTATION	277,801	3,663	9%	Utility Delivery
	DRAIN SUBSTATION	2,942,428	38,795	100%	Total
80					
81	DWORSHAK SUBSTATION	4,502,639	23,383	18%	Generation Integration
82	DWORSHAK SUBSTATION	20,299,284	105,419	82%	Network
83	DWORSHAK SUBSTATION	24,801,923	128,802	100%	Total
84	EAGLE LAKE SUBSTATION	372,510	12,306	98%	Utility Delivery
85	EAGLE LAKE SUBSTATION	8,024	265	2%	Unsegmented
	EAGLE LAKE SUBSTATION	380,534	12,571	100%	Total
86		333,33	. =,5	.0070	. 0.13.
87	FRANKLIN SUBSTATION	1,842,217	61,577	20%	Generation Integration
88	FRANKLIN SUBSTATION	7,519,624	251,347	80%	Network
	FRANKLIN SUBSTATION	9,361,841	312,924	100%	Total
89	OARRIGON CUROTATION	17.000.054		000/	
90	GARRISON SUBSTATION	47,828,951	335,935	66%	Network
91	GARRISON SUBSTATION	24,359,252	171,092	34%	Eastern Intertie
92	GARRISON SUBSTATION	72,188,203	507,027	100%	Total
93	GLADE SUBSTATION	444,475	9,642	89%	Utility Delivery
94	GLADE SUBSTATION	53,296	1,156	11%	Unsegmented
	GLADE SUBSTATION	497,771	10,798	100%	Total
95		- ,	.,		
96	HOOD RIVER SUBSTATION	607,958	17,390	49%	Network
97	HOOD RIVER SUBSTATION	627,556	17,950	51%	Utility Delivery
	HOOD RIVER SUBSTATION	1,235,514	35,340	100%	Total
98 99	INTAL OO OUDOTATION	050.000	40.050	407	Network
	INITAL CA STIBSTATION				NATWORK
	INTALCO SUBSTATION	659,933	10,253	4%	
100	INTALCO SUBSTATION	16,403,546	254,840	96%	DSI Delivery
100					
100 101	INTALCO SUBSTATION INTALCO SUBSTATION	16,403,546 17,063,479	254,840 265,093	96% 100%	DSI Delivery Total
100 101 102	INTALCO SUBSTATION INTALCO SUBSTATION IONE SUBSTATION	16,403,546 17,063,479 582,192	254,840 265,093 19,826	96% 100% 73%	DSI Delivery Total Network
100 101	INTALCO SUBSTATION INTALCO SUBSTATION IONE SUBSTATION IONE SUBSTATION	16,403,546 17,063,479 582,192 210,675	254,840 265,093 19,826 7,174	96% 100% 73% 27%	DSI Delivery Total
100 101 102 103 104	INTALCO SUBSTATION INTALCO SUBSTATION IONE SUBSTATION IONE SUBSTATION IONE SUBSTATION	16,403,546 17,063,479 582,192 210,675 792,867	254,840 265,093 19,826 7,174 27,000	96% 100% 73% 27% 100%	DSI Delivery Total Network Utility Delivery Total
100 101 102 103 104 105	INTALCO SUBSTATION INTALCO SUBSTATION IONE SUBSTATION IONE SUBSTATION IONE SUBSTATION JOHN DAY SUBSTATION	16,403,546 17,063,479 582,192 210,675 792,867 10,714,315	254,840 265,093 19,826 7,174 27,000 73,792	96% 100% 73% 27% 100% 24%	DSI Delivery Total Network Utility Delivery Total Generation Integration
100 101 102 103 104 105 106	INTALCO SUBSTATION INTALCO SUBSTATION IONE SUBSTATION IONE SUBSTATION IONE SUBSTATION JOHN DAY SUBSTATION JOHN DAY SUBSTATION	16,403,546 17,063,479 582,192 210,675 792,867 10,714,315 21,916,385	254,840 265,093 19,826 7,174 27,000 73,792 150,944	96% 100% 73% 27% 100% 24% 49%	DSI Delivery Total Network Utility Delivery Total Generation Integration Network
100 101 102 103 104 105	INTALCO SUBSTATION INTALCO SUBSTATION IONE SUBSTATION IONE SUBSTATION IONE SUBSTATION JOHN DAY SUBSTATION JOHN DAY SUBSTATION JOHN DAY SUBSTATION JOHN DAY SUBSTATION	16,403,546 17,063,479 582,192 210,675 792,867 10,714,315 21,916,385 12,128,698	254,840 265,093 19,826 7,174 27,000 73,792 150,944 83,533	96% 100% 73% 27% 100% 24% 49% 27%	DSI Delivery Total Network Utility Delivery Total Generation Integration Network Southern Intertie
100 101 102 103 104 105 106 107	INTALCO SUBSTATION INTALCO SUBSTATION IONE SUBSTATION IONE SUBSTATION IONE SUBSTATION JOHN DAY SUBSTATION JOHN DAY SUBSTATION	16,403,546 17,063,479 582,192 210,675 792,867 10,714,315 21,916,385	254,840 265,093 19,826 7,174 27,000 73,792 150,944	96% 100% 73% 27% 100% 24% 49%	DSI Delivery Total Network Utility Delivery Total Generation Integration Network
100 101 102 103 104 105 106 107	INTALCO SUBSTATION INTALCO SUBSTATION IONE SUBSTATION IONE SUBSTATION IONE SUBSTATION JOHN DAY SUBSTATION	16,403,546 17,063,479 582,192 210,675 792,867 10,714,315 21,916,385 12,128,698 44,759,399	254,840 265,093 19,826 7,174 27,000 73,792 150,944 83,533 308,269	96% 100% 73% 27% 100% 24% 49% 27%	DSI Delivery Total Network Utility Delivery Total Generation Integration Network Southern Intertie Total
100 101 102 103 104 105 106 107 108 109	INTALCO SUBSTATION INTALCO SUBSTATION IONE SUBSTATION IONE SUBSTATION IONE SUBSTATION JOHN DAY SUBSTATION LIBBY SUBSTATION(BPA)	16,403,546 17,063,479 582,192 210,675 792,867 10,714,315 21,916,385 12,128,698 44,759,399 2,936,321	254,840 265,093 19,826 7,174 27,000 73,792 150,944 83,533 308,269 66,577	96% 100% 73% 27% 100% 24% 49% 27% 100%	DSI Delivery Total Network Utility Delivery Total Generation Integration Network Southern Intertie Total Generation Integration
100 101 102 103 104 105 106 107	INTALCO SUBSTATION INTALCO SUBSTATION IONE SUBSTATION IONE SUBSTATION IONE SUBSTATION JOHN DAY SUBSTATION JOHN DAY SUBSTATION JOHN DAY SUBSTATION JOHN DAY SUBSTATION LIBBY SUBSTATION(BPA) LIBBY SUBSTATION(BPA)	16,403,546 17,063,479 582,192 210,675 792,867 10,714,315 21,916,385 12,128,698 44,759,399 2,936,321 5,974,273	254,840 265,093 19,826 7,174 27,000 73,792 150,944 83,533 308,269 66,577 135,458	96% 100% 73% 27% 100% 24% 49% 27% 100% 33% 67%	DSI Delivery Total Network Utility Delivery Total Generation Integration Network Southern Intertie Total Generation Integration Network
100 101 102 103 104 105 106 107 108 109	INTALCO SUBSTATION INTALCO SUBSTATION IONE SUBSTATION IONE SUBSTATION IONE SUBSTATION JOHN DAY SUBSTATION LIBBY SUBSTATION(BPA)	16,403,546 17,063,479 582,192 210,675 792,867 10,714,315 21,916,385 12,128,698 44,759,399 2,936,321	254,840 265,093 19,826 7,174 27,000 73,792 150,944 83,533 308,269 66,577	96% 100% 73% 27% 100% 24% 49% 27% 100%	DSI Delivery Total Network Utility Delivery Total Generation Integration Network Southern Intertie Total Generation Integration
100 101 102 103 104 105 106 107 108 109 110	INTALCO SUBSTATION INTALCO SUBSTATION IONE SUBSTATION IONE SUBSTATION IONE SUBSTATION JOHN DAY SUBSTATION JOHN DAY SUBSTATION JOHN DAY SUBSTATION JOHN DAY SUBSTATION LIBBY SUBSTATION(BPA) LIBBY SUBSTATION(BPA)	16,403,546 17,063,479 582,192 210,675 792,867 10,714,315 21,916,385 12,128,698 44,759,399 2,936,321 5,974,273	254,840 265,093 19,826 7,174 27,000 73,792 150,944 83,533 308,269 66,577 135,458 202,035	96% 100% 73% 27% 100% 24% 49% 27% 100% 33% 67% 100%	DSI Delivery Total Network Utility Delivery Total Generation Integration Network Southern Intertie Total Generation Integration Network Total
100 101 102 103 104 105 106 107 108 109 110	INTALCO SUBSTATION INTALCO SUBSTATION IONE SUBSTATION IONE SUBSTATION IONE SUBSTATION JOHN DAY SUBSTATION JOHN DAY SUBSTATION JOHN DAY SUBSTATION JOHN DAY SUBSTATION LIBBY SUBSTATION(BPA) LIBBY SUBSTATION(BPA) LIBBY SUBSTATION(BPA)	16,403,546 17,063,479 582,192 210,675 792,867 10,714,315 21,916,385 12,128,698 44,759,399 2,936,321 5,974,273 8,910,594	254,840 265,093 19,826 7,174 27,000 73,792 150,944 83,533 308,269 66,577 135,458 202,035	96% 100% 73% 27% 100% 24% 49% 27% 100% 33% 67%	DSI Delivery Total Network Utility Delivery Total Generation Integration Network Southern Intertie Total Generation Integration Network
100 101 102 103 104 105 106 107 108 109 110 111 112	INTALCO SUBSTATION INTALCO SUBSTATION IONE SUBSTATION IONE SUBSTATION IONE SUBSTATION JOHN DAY SUBSTATION JOHN DAY SUBSTATION JOHN DAY SUBSTATION JOHN DAY SUBSTATION LIBBY SUBSTATION(BPA) LIBBY SUBSTATION(BPA) LIBBY SUBSTATION(BPA) LIBBY SUBSTATION(BPA)	16,403,546 17,063,479 582,192 210,675 792,867 10,714,315 21,916,385 12,128,698 44,759,399 2,936,321 5,974,273 8,910,594 2,496,610	254,840 265,093 19,826 7,174 27,000 73,792 150,944 83,533 308,269 66,577 135,458 202,035	96% 100% 73% 27% 100% 24% 49% 27% 100% 33% 67% 100%	DSI Delivery Total Network Utility Delivery Total Generation Integration Network Southern Intertie Total Generation Integration Network Total Generation Integration Network Total Generation Integration
100 101 102 103 104 105 106 107 108 109 110 111 112 113	INTALCO SUBSTATION INTALCO SUBSTATION IONE SUBSTATION IONE SUBSTATION IONE SUBSTATION JOHN DAY SUBSTATION LIBBY SUBSTATION(BPA) LIBBY SUBSTATION(BPA) LIBBY SUBSTATION(BPA) LITTLE GOOSE SUBSTATION LITTLE GOOSE SUBSTATION LITTLE GOOSE SUBSTATION	16,403,546 17,063,479 582,192 210,675 792,867 10,714,315 21,916,385 12,128,698 44,759,399 2,936,321 5,974,273 8,910,594 2,496,610 9,986,440 12,483,050	254,840 265,093 19,826 7,174 27,000 73,792 150,944 83,533 308,269 66,577 135,458 202,035 19,014 76,055 95,069	96% 100% 73% 27% 100% 24% 49% 27% 100% 33% 67% 100% 20% 80% 100%	DSI Delivery Total Network Utility Delivery Total Generation Integration Network Southern Intertie Total Generation Integration Network Total Generation Integration Network Total Generation Integration Network Total
100 101 102 103 104 105 106 107 108 109 110 111 112 113 114	INTALCO SUBSTATION INTALCO SUBSTATION IONE SUBSTATION IONE SUBSTATION IONE SUBSTATION JOHN DAY SUBSTATION LIBBY SUBSTATION(BPA) LIBBY SUBSTATION(BPA) LIBBY SUBSTATION(BPA) LITTLE GOOSE SUBSTATION LITTLE GOOSE SUBSTATION LITTLE GOOSE SUBSTATION LITTLE GOOSE SUBSTATION	16,403,546 17,063,479 582,192 210,675 792,867 10,714,315 21,916,385 12,128,698 44,759,399 2,936,321 5,974,273 8,910,594 2,496,610 9,986,440 12,483,050 553,632	254,840 265,093 19,826 7,174 27,000 73,792 150,944 83,533 308,269 66,577 135,458 202,035 19,014 76,055 95,069 7,518	96% 100% 73% 27% 100% 24% 49% 27% 100% 33% 67% 100% 20% 80% 100% 25%	DSI Delivery Total Network Utility Delivery Total Generation Integration Network Southern Intertie Total Generation Integration Network Total Generation Integration Network Total Generation Integration Network Total Generation Integration
100 101 102 103 104 105 106 107 108 109 110 111 112 113	INTALCO SUBSTATION INTALCO SUBSTATION IONE SUBSTATION IONE SUBSTATION IONE SUBSTATION JOHN DAY SUBSTATION LIBBY SUBSTATION(BPA) LIBBY SUBSTATION(BPA) LIBBY SUBSTATION(BPA) LITTLE GOOSE SUBSTATION LITTLE GOOSE SUBSTATION LITTLE GOOSE SUBSTATION LOOKOUT POINT SUBSTATION LOOKOUT POINT SUBSTATION	16,403,546 17,063,479 582,192 210,675 792,867 10,714,315 21,916,385 12,128,698 44,759,399 2,936,321 5,974,273 8,910,594 2,496,610 9,986,440 12,483,050 553,632 1,660,895	254,840 265,093 19,826 7,174 27,000 73,792 150,944 83,533 308,269 66,577 135,458 202,035 19,014 76,055 95,069 7,518 22,553	96% 100% 73% 27% 100% 24% 49% 27% 100% 33% 67% 100% 20% 80% 100% 25% 75%	DSI Delivery Total Network Utility Delivery Total Generation Integration Network Southern Intertie Total Generation Integration Network Total Generation Integration Network Total Generation Integration Network Total Generation Integration Network
100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116	INTALCO SUBSTATION INTALCO SUBSTATION IONE SUBSTATION IONE SUBSTATION IONE SUBSTATION JOHN DAY SUBSTATION LIBBY SUBSTATION(BPA) LIBBY SUBSTATION(BPA) LIBBY SUBSTATION(BPA) LITTLE GOOSE SUBSTATION LITTLE GOOSE SUBSTATION LITTLE GOOSE SUBSTATION LITTLE GOOSE SUBSTATION	16,403,546 17,063,479 582,192 210,675 792,867 10,714,315 21,916,385 12,128,698 44,759,399 2,936,321 5,974,273 8,910,594 2,496,610 9,986,440 12,483,050 553,632	254,840 265,093 19,826 7,174 27,000 73,792 150,944 83,533 308,269 66,577 135,458 202,035 19,014 76,055 95,069 7,518	96% 100% 73% 27% 100% 24% 49% 27% 100% 33% 67% 100% 20% 80% 100% 25%	DSI Delivery Total Network Utility Delivery Total Generation Integration Network Southern Intertie Total Generation Integration Network Total Generation Integration Network Total Generation Integration Network Total Generation Integration
100 101 102 103 104 105 106 107 108 109 110 111 112 113 114	INTALCO SUBSTATION INTALCO SUBSTATION IONE SUBSTATION IONE SUBSTATION IONE SUBSTATION JOHN DAY SUBSTATION LIBBY SUBSTATION(BPA) LIBBY SUBSTATION(BPA) LIBBY SUBSTATION(BPA) LITTLE GOOSE SUBSTATION LITTLE GOOSE SUBSTATION LITTLE GOOSE SUBSTATION LOOKOUT POINT SUBSTATION LOOKOUT POINT SUBSTATION	16,403,546 17,063,479 582,192 210,675 792,867 10,714,315 21,916,385 12,128,698 44,759,399 2,936,321 5,974,273 8,910,594 2,496,610 9,986,440 12,483,050 553,632 1,660,895	254,840 265,093 19,826 7,174 27,000 73,792 150,944 83,533 308,269 66,577 135,458 202,035 19,014 76,055 95,069 7,518 22,553	96% 100% 73% 27% 100% 24% 49% 27% 100% 33% 67% 100% 20% 80% 100% 25% 75%	DSI Delivery Total Network Utility Delivery Total Generation Integration Network Southern Intertie Total Generation Integration Network Total Generation Integration Network Total Generation Integration Network Total Generation Integration Network
100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116	INTALCO SUBSTATION INTALCO SUBSTATION IONE SUBSTATION IONE SUBSTATION IONE SUBSTATION JOHN DAY SUBSTATION LIBBY SUBSTATION(BPA) LIBBY SUBSTATION(BPA) LIBBY SUBSTATION(BPA) LITTLE GOOSE SUBSTATION LITTLE GOOSE SUBSTATION LITTLE GOOSE SUBSTATION LOOKOUT POINT SUBSTATION LOOKOUT POINT SUBSTATION LOOKOUT POINT SUBSTATION	16,403,546 17,063,479 582,192 210,675 792,867 10,714,315 21,916,385 12,128,698 44,759,399 2,936,321 5,974,273 8,910,594 2,496,610 9,986,440 12,483,050 553,632 1,660,895 2,214,527	254,840 265,093 19,826 7,174 27,000 73,792 150,944 83,533 308,269 66,577 135,458 202,035 19,014 76,055 95,069 7,518 22,553 30,070	96% 100% 73% 27% 100% 24% 49% 27% 100% 33% 67% 100% 20% 80% 100% 25% 75% 100%	DSI Delivery Total Network Utility Delivery Total Generation Integration Network Southern Intertie Total Generation Integration Network Total
100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116	INTALCO SUBSTATION INTALCO SUBSTATION IONE SUBSTATION IONE SUBSTATION IONE SUBSTATION JOHN DAY SUBSTATION LIBBY SUBSTATION(BPA) LIBBY SUBSTATION(BPA) LIBBY SUBSTATION(BPA) LITTLE GOOSE SUBSTATION LITTLE GOOSE SUBSTATION LITTLE GOOSE SUBSTATION LOOKOUT POINT SUBSTATION	16,403,546 17,063,479 582,192 210,675 792,867 10,714,315 21,916,385 12,128,698 44,759,399 2,936,321 5,974,273 8,910,594 2,496,610 9,986,440 12,483,050 553,632 1,660,895 2,214,527	254,840 265,093 19,826 7,174 27,000 73,792 150,944 83,533 308,269 66,577 135,458 202,035 19,014 76,055 95,069 7,518 22,553 30,070	96% 100% 73% 27% 100% 24% 49% 27% 100% 33% 67% 100% 20% 80% 100% 25% 75% 100%	DSI Delivery Total Network Utility Delivery Total Generation Integration Network Southern Intertie Total Generation Integration Network
100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117	INTALCO SUBSTATION INTALCO SUBSTATION IONE SUBSTATION IONE SUBSTATION IONE SUBSTATION JOHN DAY SUBSTATION LIBBY SUBSTATION(BPA) LIBBY SUBSTATION(BPA) LIBBY SUBSTATION(BPA) LITTLE GOOSE SUBSTATION LITTLE GOOSE SUBSTATION LITTLE GOOSE SUBSTATION LOOKOUT POINT SUBSTATION	16,403,546 17,063,479 582,192 210,675 792,867 10,714,315 21,916,385 12,128,698 44,759,399 2,936,321 5,974,273 8,910,594 2,496,610 9,986,440 12,483,050 553,632 1,660,895 2,214,527 2,095,395 6,286,185	254,840 265,093 19,826 7,174 27,000 73,792 150,944 83,533 308,269 66,577 135,458 202,035 19,014 76,055 95,069 7,518 22,553 30,070 26,432 79,297	96% 100% 73% 27% 100% 24% 49% 27% 100% 33% 67% 100% 20% 80% 100% 25% 75% 100%	DSI Delivery Total Network Utility Delivery Total Generation Integration Network Southern Intertie Total Generation Integration Network Total
100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117	INTALCO SUBSTATION INTALCO SUBSTATION IONE SUBSTATION IONE SUBSTATION IONE SUBSTATION JOHN DAY SUBSTATION LIBBY SUBSTATION(BPA) LIBBY SUBSTATION(BPA) LIBBY SUBSTATION(BPA) LITTLE GOOSE SUBSTATION LITTLE GOOSE SUBSTATION LITTLE GOOSE SUBSTATION LOOKOUT POINT SUBSTATION	16,403,546 17,063,479 582,192 210,675 792,867 10,714,315 21,916,385 12,128,698 44,759,399 2,936,321 5,974,273 8,910,594 2,496,610 9,986,440 12,483,050 553,632 1,660,895 2,214,527	254,840 265,093 19,826 7,174 27,000 73,792 150,944 83,533 308,269 66,577 135,458 202,035 19,014 76,055 95,069 7,518 22,553 30,070	96% 100% 73% 27% 100% 24% 49% 27% 100% 33% 67% 100% 20% 80% 100% 25% 75% 100%	DSI Delivery Total Network Utility Delivery Total Generation Integration Network Southern Intertie Total Generation Integration Network Total Generation Integration Network Total Generation Integration Network Total Generation Integration Network Total Generation Integration Network Total Generation Integration Network

121	LOWER MONUMENTAL SUBSTATION	2,255,228	13,916	12%	Generation Integration
122	LOWER MONUMENTAL SUBSTATION	16,646,615	102,719	88%	Network
400	LOWER MONUMENTAL SUBSTATION	18,901,843	116,635	100%	Total
123	MADI ETONI GUIDOTATIONI	007.000	40.500	000/	N
124	MAPLETON SUBSTATION	387,996	19,533	68%	Network
125	MAPLETON SUBSTATION	183,012	9,213	32%	Utility Delivery
106	MAPLETON SUBSTATION	571,008	28,747	100%	Total
126	MADIONI CUDOTATIONI	22 4 40 720	250.070	040/	Nativant
127	MARION SUBSTATION	32,148,738	358,076	91%	Network
128	MARION SUBSTATION MARION SUBSTATION	3,342,294 35,491,031	37,227 395,303	9% 100%	Southern Intertie Total
129	WARION SUBSTATION	35,491,031	395,303	100%	Total
130	MCNARY SUBSTATION	5,959,309	47,694	12%	Generation Integration
131	MCNARY SUBSTATION	45,352,829	362,972	88%	Network
131	MCNARY SUBSTATION	51,312,138	410,666	100%	Total
132	MCNAIL SOBSTATION	31,312,130	410,000	10070	Total
133	NORTH BONNEVILLE SUBSTATION	4,146,013	62,961	37%	Generation Integration
134	NORTH BONNEVILLE SUBSTATION	7,070,403	107,370	63%	Network
	NORTH BONNEVILLE SUBSTATION	11,216,416	170,331	100%	Total
135	NORTH BOTTLE VILLE GOBOTT TOTAL	11,210,110	,	10070	. Otal
136	PARKDALE SUBSTATION	628,684	10,296	51%	Network
137	PARKDALE SUBSTATION	604,963	9,908	49%	Utility Delivery
	PARKDALE SUBSTATION	1,233,647	20,204	100%	Total
138		,,-	-, -		
139	PORT ORFORD SUBSTATION	38,845	1,504	9%	Network
140	PORT ORFORD SUBSTATION	407,963	15,794	91%	Utility Delivery
	PORT ORFORD SUBSTATION	446,808	17,298	100%	Total
141					
142	POTLATCH SUBSTATION(BPA)	932,667	20,182	83%	Network
143	POTLATCH SUBSTATION(BPA)	188,784	4,085	17%	Utility Delivery
	POTLATCH SUBSTATION(BPA)	1,121,451	24,267	100%	Total
144					
145	REEDSPORT SUBSTATION (BPA)	2,819,692	35,352	79%	Network
	REEDSPORT SUBSTATION (BPA)	2,819,692 734,116	9,204	21%	Utility Delivery
145 146		2,819,692			
145 146 147	REEDSPORT SUBSTATION (BPA) REEDSPORT SUBSTATION (BPA)	2,819,692 734,116 3,553,808	9,204 44,556	21% 100%	Utility Delivery Total
145 146 147 148	REEDSPORT SUBSTATION (BPA) REEDSPORT SUBSTATION (BPA) RINGOLD SUBSTATION	2,819,692 734,116 3,553,808 411,773	9,204 44,556 11,773	21% 100% 79%	Utility Delivery Total Utility Delivery
145 146 147	REEDSPORT SUBSTATION (BPA) REEDSPORT SUBSTATION (BPA) RINGOLD SUBSTATION RINGOLD SUBSTATION	2,819,692 734,116 3,553,808 411,773 110,507	9,204 44,556 11,773 3,159	21% 100% 79% 21%	Utility Delivery Total Utility Delivery Unsegmented
145 146 147 148 149	REEDSPORT SUBSTATION (BPA) REEDSPORT SUBSTATION (BPA) RINGOLD SUBSTATION	2,819,692 734,116 3,553,808 411,773	9,204 44,556 11,773	21% 100% 79%	Utility Delivery Total Utility Delivery
145 146 147 148 149	REEDSPORT SUBSTATION (BPA) REEDSPORT SUBSTATION (BPA) RINGOLD SUBSTATION RINGOLD SUBSTATION RINGOLD SUBSTATION	2,819,692 734,116 3,553,808 411,773 110,507 522,279	9,204 44,556 11,773 3,159 14,932	21% 100% 79% 21% 100%	Utility Delivery Total Utility Delivery Unsegmented Total
145 146 147 148 149 150 151	REEDSPORT SUBSTATION (BPA) REEDSPORT SUBSTATION (BPA) RINGOLD SUBSTATION RINGOLD SUBSTATION RINGOLD SUBSTATION SACAJAWEA SUBSTATION	2,819,692 734,116 3,553,808 411,773 110,507 522,279 187,186	9,204 44,556 11,773 3,159 14,932 455	21% 100% 79% 21% 100%	Utility Delivery Total Utility Delivery Unsegmented Total Generation Integration
145 146 147 148 149 150 151	REEDSPORT SUBSTATION (BPA) REEDSPORT SUBSTATION (BPA) RINGOLD SUBSTATION RINGOLD SUBSTATION RINGOLD SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION	2,819,692 734,116 3,553,808 411,773 110,507 522,279 187,186 23,153,747	9,204 44,556 11,773 3,159 14,932 455 56,286	21% 100% 79% 21% 100% 1% 99%	Utility Delivery Total Utility Delivery Unsegmented Total Generation Integration Network
145 146 147 148 149 150 151 152	REEDSPORT SUBSTATION (BPA) REEDSPORT SUBSTATION (BPA) RINGOLD SUBSTATION RINGOLD SUBSTATION RINGOLD SUBSTATION SACAJAWEA SUBSTATION	2,819,692 734,116 3,553,808 411,773 110,507 522,279 187,186	9,204 44,556 11,773 3,159 14,932 455	21% 100% 79% 21% 100%	Utility Delivery Total Utility Delivery Unsegmented Total Generation Integration
145 146 147 148 149 150 151 152	REEDSPORT SUBSTATION (BPA) REEDSPORT SUBSTATION (BPA) RINGOLD SUBSTATION RINGOLD SUBSTATION RINGOLD SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION	2,819,692 734,116 3,553,808 411,773 110,507 522,279 187,186 23,153,747 23,340,934	9,204 44,556 11,773 3,159 14,932 455 56,286 56,741	21% 100% 79% 21% 100% 1% 99%	Utility Delivery Total Utility Delivery Unsegmented Total Generation Integration Network Total
145 146 147 148 149 150 151 152 153 154	REEDSPORT SUBSTATION (BPA) REEDSPORT SUBSTATION (BPA) RINGOLD SUBSTATION RINGOLD SUBSTATION RINGOLD SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION	2,819,692 734,116 3,553,808 411,773 110,507 522,279 187,186 23,153,747 23,340,934 991,943	9,204 44,556 11,773 3,159 14,932 455 56,286 56,741 23,438	21% 100% 79% 21% 100% 1% 99% 100%	Utility Delivery Total Utility Delivery Unsegmented Total Generation Integration Network Total Network
145 146 147 148 149 150 151 152	REEDSPORT SUBSTATION (BPA) REEDSPORT SUBSTATION (BPA) RINGOLD SUBSTATION RINGOLD SUBSTATION RINGOLD SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SANDPOINT SUBSTATION(BPA) SANDPOINT SUBSTATION(BPA)	2,819,692 734,116 3,553,808 411,773 110,507 522,279 187,186 23,153,747 23,340,934 991,943 312,508	9,204 44,556 11,773 3,159 14,932 455 56,286 56,741 23,438 7,384	21% 100% 79% 21% 100% 1% 99% 100% 76% 24%	Utility Delivery Total Utility Delivery Unsegmented Total Generation Integration Network Total Network Utility Delivery
145 146 147 148 149 150 151 152 153 154	REEDSPORT SUBSTATION (BPA) REEDSPORT SUBSTATION (BPA) RINGOLD SUBSTATION RINGOLD SUBSTATION RINGOLD SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION	2,819,692 734,116 3,553,808 411,773 110,507 522,279 187,186 23,153,747 23,340,934 991,943	9,204 44,556 11,773 3,159 14,932 455 56,286 56,741 23,438	21% 100% 79% 21% 100% 1% 99% 100%	Utility Delivery Total Utility Delivery Unsegmented Total Generation Integration Network Total Network
145 146 147 148 149 150 151 152 153 154 155	REEDSPORT SUBSTATION (BPA) REEDSPORT SUBSTATION (BPA) RINGOLD SUBSTATION RINGOLD SUBSTATION RINGOLD SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SANDPOINT SUBSTATION(BPA) SANDPOINT SUBSTATION(BPA)	2,819,692 734,116 3,553,808 411,773 110,507 522,279 187,186 23,153,747 23,340,934 991,943 312,508 1,304,451	9,204 44,556 11,773 3,159 14,932 455 56,286 56,741 23,438 7,384 30,823	21% 100% 79% 21% 100% 1% 99% 100% 76% 24%	Utility Delivery Total Utility Delivery Unsegmented Total Generation Integration Network Total Network Utility Delivery Total
145 146 147 148 149 150 151 152 153 154 155 156 157	REEDSPORT SUBSTATION (BPA) REEDSPORT SUBSTATION (BPA) RINGOLD SUBSTATION RINGOLD SUBSTATION RINGOLD SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SANDPOINT SUBSTATION(BPA) SANDPOINT SUBSTATION(BPA) SANDPOINT SUBSTATION(BPA) SANDPOINT SUBSTATION(BPA) SANDPOINT SUBSTATION(BPA)	2,819,692 734,116 3,553,808 411,773 110,507 522,279 187,186 23,153,747 23,340,934 991,943 312,508 1,304,451 775,593	9,204 44,556 11,773 3,159 14,932 455 56,286 56,741 23,438 7,384 30,823 13,232	21% 100% 79% 21% 100% 1% 99% 100% 76% 24% 100%	Utility Delivery Total Utility Delivery Unsegmented Total Generation Integration Network Total Network Utility Delivery Total Generation Integration
145 146 147 148 149 150 151 152 153 154 155	REEDSPORT SUBSTATION (BPA) REEDSPORT SUBSTATION (BPA) RINGOLD SUBSTATION RINGOLD SUBSTATION RINGOLD SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SANDPOINT SUBSTATION(BPA) SANDPOINT SUBSTATION(BPA) SANDPOINT SUBSTATION(BPA) SANTIAM SUBSTATION SANTIAM SUBSTATION	2,819,692 734,116 3,553,808 411,773 110,507 522,279 187,186 23,153,747 23,340,934 991,943 312,508 1,304,451 775,593 15,084,336	9,204 44,556 11,773 3,159 14,932 455 56,286 56,741 23,438 7,384 30,823 13,232 257,346	21% 100% 79% 21% 100% 1% 99% 100% 76% 24% 100% 5%	Utility Delivery Total Utility Delivery Unsegmented Total Generation Integration Network Total Network Utility Delivery Total Generation Integration Network
145 146 147 148 149 150 151 152 153 154 155 156 157	REEDSPORT SUBSTATION (BPA) REEDSPORT SUBSTATION (BPA) RINGOLD SUBSTATION RINGOLD SUBSTATION RINGOLD SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SANDPOINT SUBSTATION(BPA) SANDPOINT SUBSTATION(BPA) SANDPOINT SUBSTATION(BPA) SANDPOINT SUBSTATION(BPA) SANDPOINT SUBSTATION(BPA)	2,819,692 734,116 3,553,808 411,773 110,507 522,279 187,186 23,153,747 23,340,934 991,943 312,508 1,304,451 775,593	9,204 44,556 11,773 3,159 14,932 455 56,286 56,741 23,438 7,384 30,823 13,232	21% 100% 79% 21% 100% 1% 99% 100% 76% 24% 100%	Utility Delivery Total Utility Delivery Unsegmented Total Generation Integration Network Total Network Utility Delivery Total Generation Integration
145 146 147 148 149 150 151 152 153 154 155 156 157 158	REEDSPORT SUBSTATION (BPA) REEDSPORT SUBSTATION (BPA) RINGOLD SUBSTATION RINGOLD SUBSTATION RINGOLD SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SANDPOINT SUBSTATION(BPA) SANDPOINT SUBSTATION(BPA) SANDPOINT SUBSTATION(BPA) SANTIAM SUBSTATION SANTIAM SUBSTATION	2,819,692 734,116 3,553,808 411,773 110,507 522,279 187,186 23,153,747 23,340,934 991,943 312,508 1,304,451 775,593 15,084,336	9,204 44,556 11,773 3,159 14,932 455 56,286 56,741 23,438 7,384 30,823 13,232 257,346	21% 100% 79% 21% 100% 1% 99% 100% 76% 24% 100% 5%	Utility Delivery Total Utility Delivery Unsegmented Total Generation Integration Network Total Network Utility Delivery Total Generation Integration Network
145 146 147 148 149 150 151 152 153 154 155 156 157 158	REEDSPORT SUBSTATION (BPA) REEDSPORT SUBSTATION (BPA) RINGOLD SUBSTATION RINGOLD SUBSTATION RINGOLD SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SANDPOINT SUBSTATION(BPA) SANDPOINT SUBSTATION(BPA) SANDPOINT SUBSTATION(BPA) SANDPOINT SUBSTATION(BPA) SANTIAM SUBSTATION SANTIAM SUBSTATION SANTIAM SUBSTATION	2,819,692 734,116 3,553,808 411,773 110,507 522,279 187,186 23,153,747 23,340,934 991,943 312,508 1,304,451 775,593 15,084,336 15,859,929	9,204 44,556 11,773 3,159 14,932 455 56,286 56,741 23,438 7,384 30,823 13,232 257,346 270,578	21% 100% 79% 21% 100% 1% 99% 100% 76% 24% 100% 5% 95%	Utility Delivery Total Utility Delivery Unsegmented Total Generation Integration Network Total Network Utility Delivery Total Generation Integration Network Total
145 146 147 148 149 150 151 152 153 154 155 156 157 158 159	REEDSPORT SUBSTATION (BPA) REEDSPORT SUBSTATION (BPA) RINGOLD SUBSTATION RINGOLD SUBSTATION RINGOLD SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SANDPOINT SUBSTATION(BPA) SANDPOINT SUBSTATION(BPA) SANDPOINT SUBSTATION(BPA) SANDPOINT SUBSTATION(BPA) SANTIAM SUBSTATION SANTIAM SUBSTATION SANTIAM SUBSTATION SANTIAM SUBSTATION SANTIAM SUBSTATION	2,819,692 734,116 3,553,808 411,773 110,507 522,279 187,186 23,153,747 23,340,934 991,943 312,508 1,304,451 775,593 15,084,336 15,859,929	9,204 44,556 11,773 3,159 14,932 455 56,286 56,741 23,438 7,384 30,823 13,232 257,346 270,578	21% 100% 79% 21% 100% 1% 99% 100% 76% 24% 100% 5% 95%	Utility Delivery Total Utility Delivery Unsegmented Total Generation Integration Network Total Network Utility Delivery Total Generation Integration Network Utility Delivery Total Network Total Network Network
145 146 147 148 149 150 151 152 153 154 155 156 157 158	REEDSPORT SUBSTATION (BPA) REEDSPORT SUBSTATION (BPA) RINGOLD SUBSTATION RINGOLD SUBSTATION RINGOLD SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SANDPOINT SUBSTATION(BPA) SANDPOINT SUBSTATION(BPA) SANDPOINT SUBSTATION(BPA) SANDPOINT SUBSTATION(BPA) SANTIAM SUBSTATION SANTIAM SUBSTATION SANTIAM SUBSTATION SANTIAM SUBSTATION SCOOTENEY SUBSTATION SCOOTENEY SUBSTATION	2,819,692 734,116 3,553,808 411,773 110,507 522,279 187,186 23,153,747 23,340,934 991,943 312,508 1,304,451 775,593 15,084,336 15,859,929	9,204 44,556 11,773 3,159 14,932 455 56,286 56,741 23,438 7,384 30,823 13,232 257,346 270,578	21% 100% 79% 21% 100% 1% 99% 100% 76% 24% 100% 5% 95% 100%	Utility Delivery Total Utility Delivery Unsegmented Total Generation Integration Network Total Network Utility Delivery Total Generation Integration Network Utility Delivery Total Network Utility Delivery Total
145 146 147 148 149 150 151 152 153 154 155 156 157 158 159	REEDSPORT SUBSTATION (BPA) REEDSPORT SUBSTATION (BPA) RINGOLD SUBSTATION RINGOLD SUBSTATION RINGOLD SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SANDPOINT SUBSTATION(BPA) SANDPOINT SUBSTATION(BPA) SANDPOINT SUBSTATION(BPA) SANDPOINT SUBSTATION(BPA) SANTIAM SUBSTATION SANTIAM SUBSTATION SANTIAM SUBSTATION SANTIAM SUBSTATION SANTIAM SUBSTATION	2,819,692 734,116 3,553,808 411,773 110,507 522,279 187,186 23,153,747 23,340,934 991,943 312,508 1,304,451 775,593 15,084,336 15,859,929	9,204 44,556 11,773 3,159 14,932 455 56,286 56,741 23,438 7,384 30,823 13,232 257,346 270,578	21% 100% 79% 21% 100% 1% 99% 100% 76% 24% 100% 5% 95%	Utility Delivery Total Utility Delivery Unsegmented Total Generation Integration Network Total Network Utility Delivery Total Generation Integration Network Utility Delivery Total Network Total Network Network
145 146 147 148 149 150 151 152 153 154 155 156 157 158 159	REEDSPORT SUBSTATION (BPA) REEDSPORT SUBSTATION (BPA) RINGOLD SUBSTATION RINGOLD SUBSTATION RINGOLD SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SANDPOINT SUBSTATION(BPA) SANDPOINT SUBSTATION(BPA) SANDPOINT SUBSTATION(BPA) SANDPOINT SUBSTATION(BPA) SANTIAM SUBSTATION SANTIAM SUBSTATION SANTIAM SUBSTATION SANTIAM SUBSTATION SCOOTENEY SUBSTATION SCOOTENEY SUBSTATION SCOOTENEY SUBSTATION	2,819,692 734,116 3,553,808 411,773 110,507 522,279 187,186 23,153,747 23,340,934 991,943 312,508 1,304,451 775,593 15,084,336 15,859,929 913,406 386,934 1,300,340	9,204 44,556 11,773 3,159 14,932 455 56,286 56,741 23,438 7,384 30,823 13,232 257,346 270,578 16,682 7,067 23,749	21% 100% 79% 21% 100% 1% 99% 100% 76% 24% 100% 5% 100%	Utility Delivery Total Utility Delivery Unsegmented Total Generation Integration Network Total Network Utility Delivery Total Generation Integration Network Utility Delivery Total Network Utility Delivery Total
145 146 147 148 149 150 151 152 153 154 155 156 157 158 159	REEDSPORT SUBSTATION (BPA) REEDSPORT SUBSTATION (BPA) RINGOLD SUBSTATION RINGOLD SUBSTATION RINGOLD SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SACAJAWEA SUBSTATION SANDPOINT SUBSTATION(BPA) SANDPOINT SUBSTATION(BPA) SANDPOINT SUBSTATION(BPA) SANDPOINT SUBSTATION(BPA) SANTIAM SUBSTATION SANTIAM SUBSTATION SANTIAM SUBSTATION SANTIAM SUBSTATION SCOOTENEY SUBSTATION SCOOTENEY SUBSTATION	2,819,692 734,116 3,553,808 411,773 110,507 522,279 187,186 23,153,747 23,340,934 991,943 312,508 1,304,451 775,593 15,084,336 15,859,929	9,204 44,556 11,773 3,159 14,932 455 56,286 56,741 23,438 7,384 30,823 13,232 257,346 270,578	21% 100% 79% 21% 100% 1% 99% 100% 76% 24% 100% 5% 95% 100%	Utility Delivery Total Utility Delivery Unsegmented Total Generation Integration Network Total Network Utility Delivery Total Generation Integration Network Utility Delivery Total Network Utility Delivery Total

Appendix B BP-16 Multi-Segmented Facilities Summary

	SLATT SUBSTATION	75,387,567	184,406	100%	Total
165	CEAT GODONATION	10,001,001		10070	10.6.
166	SUMMER LAKE SUBSTATION	2,269,369	37,293	43%	Network
167	SUMMER LAKE SUBSTATION	3,008,234	49,435	57%	Southern Intertie
	SUMMER LAKE SUBSTATION	5,277,603	86,728	100%	Total
168					
169	SWAN VALLEY SUBSTATION	5,493,001	55,051	92%	Network
170	SWAN VALLEY SUBSTATION	495,513	4,966	8%	Utility Delivery
171	SWAN VALLEY SUBSTATION	5,988,514	60,017	100%	Total
172	TACOMA SUBSTATION	17,545,371	447,441	93%	Network
173	TACOMA SUBSTATION	1,419,016	36,188	7%	Unsegmented
170	TACOMA SUBSTATION	18,964,387	483,629	100%	Total
174	THE STATE OF	10,001,007	100,020	10070	10101
175	TRENTWOOD SUBSTATION	3,391,935	31,139	49%	Network
176	TRENTWOOD SUBSTATION	3,533,679	32,440	51%	DSI Delivery
	TRENTWOOD SUBSTATION	6,925,614	63,578	100%	Total
177					
178	TROY SUBSTATION	114,273	3,278	12%	Network
179	TROY SUBSTATION	815,848	23,405	88%	Utility Delivery
	TROY SUBSTATION	930,120	26,683	100%	Total
180					
181	VALHALLA SUBSTATION	3,639,321	125,270	92%	Network
182	VALHALLA SUBSTATION	317,754	10,937	8%	Unsegmented
	VALHALLA SUBSTATION	3,957,075	136,207	100%	Total
183					
184	WALTON SUBSTATION	21,204	1,129	6%	Network
185	WALTON SUBSTATION	321,529	17,114	94%	Utility Delivery
	WALTON SUBSTATION	342,734	18,243	100%	Total
186					
187	WINTHROP SUBSTATION	1,167,692	27,434	76%	Network
188	WINTHROP SUBSTATION	361,348	8,490	24%	Utility Delivery
400	WINTHROP SUBSTATION	1,529,039	35,924	100%	Total
189					